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Replies to initial written questions raised by Finance Committee Members in examining the Estimates of Expenditure 2019-20

Director of Bureau : Secretary for Innovation and Technology

Session No. : 15

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CONTROLLING OFFICER'S REPLY

ITB001

(Question Serial No. 1214)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

1. It was stated in the 2018-19 Budget that the Innovation and Technology Bureau would allocate \$100 million to Cyberport for developing e-sports, half of which (i.e. \$50 million) for the conversion of the Ocean View Court and Sea View Terrace area in the Cyberport Arcade into a venue for e-sports competitions. The venue will be equipped with facilities such as combat arena, lighting and audio systems, large screens for showing e-sports competitions, filming equipment, simulcast system, as well as high-speed network connection. In this connection, will the Government advise this Committee of:

- (i) the progress of the above conversion works;
- (ii) the expected time for implementing the relevant works;
- (iii) the expected number of competitions and the total attendance each year;
- (iv) the individual items of expenditure for the relevant allocation in the past year; and
- (v) the cash flow, the distribution of expenditure and the expected use of the said \$50 million in every subsequent financial year?

2. In the 2017 Budget, the Government proposed to commission Cyberport to conduct a study. Will the Government provide (A) the expenditure involved in the study and (B) the full text of the Report on Promotion of E-sports Development in Hong Kong?

Asked by: Hon AU Nok-hin (LegCo internal reference no.: 14)

Reply:

The information required is provided as follows:

- (1) The Government injected \$100 million into Cyberport in 2018-19 to promote the development of the local e-sports industry, of which \$50 million would be used for

setting up a dedicated e-sports competition venue which can accommodate about 500 spectators in the Cyberport Arcade. The works are expected to be completed by mid-2019. The provision of \$50 million will be fully used for conversion works and acquisition of professional equipment and facilities. Cyberport will be responsible for the maintenance and repair of the venue and facilities.

Cyberport expects that 6 to 8 large-scale e-sports competitions will be held each year, while some e-sports competitions and events of a smaller scale will be held each month. In addition, hardware upgrading works have been carried out for the large screen at the outdoor podium of Cyberport, enabling spectators to watch the competitions being held at the e-sports venue in an outdoor area through streaming.

Of the \$50 million provision, about 30% will be used on conversion works (i.e. reinforcing foundation, constructing an arena, etc.) and 70% on acquisition of e-sports equipment (i.e. LED wall, audio system and control room, etc.). The estimated expenditures for 2018-19 and 2019-20 are \$17.4 million and \$32.6 million respectively.

- (2) Cyberport commissioned the City University of Hong Kong to conduct a study on the development of e-sports in 2017. No government manpower and expenditure were involved. The report has been uploaded to the website of Cyberport (https://www.cyberport.hk/files/5a8260c50c633354373178/EN_e-sports%20report.pdf), and the Government has submitted the summary of the report to the Panel on Information Technology and Broadcasting of the Legislative Council in February 2018.

- End -

CONTROLLING OFFICER'S REPLY

ITB002

(Question Serial No. 3157)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Cyberport earlier completed a study on the promotion of e-sports in Hong Kong and made a number of recommendations. Has the Government compiled any statistics on the existing number of e-sports practitioners? What business opportunities are generated by related industries? Will the Bureau invite Cyberport to provide support for the promotion of e-sports and industry development? What are the details in this regard? What is the estimated expenditure for this year for promoting the industry? The Government has indicated that it will allocate \$100 million to Cyberport to promote the development of e-sports. The Cyberport Arcade will become a local e-sports and digital entertainment node providing a competition venue for e-sports. Support will also be provided for the e-sports sector in areas such as technological development and talent nurturing. In this connection, what are the estimated manpower, expenditure and details of providing the venues?

The occupancy rate of Cyberport's offices has reached 97%, nearing its maximum capacity. However, as Cyberport has set a number of new directions in technology development, including e-sports and financial technology (Fintech), it will attract the establishment of more new companies and may even attract more multinational companies to set up offices in Hong Kong. By then, Cyberport will face a serious shortage of office space, hindering their opportunity to develop business in Hong Kong. It is stated in the Budget that \$5.5 billion will be earmarked for the development of Cyberport 5. In this connection, please provide information on the actual location of Cyberport 5 and a breakdown of the additional floor area for offices, co-working space, conference venues and data service platforms after expansion.

As the location of Cyberport is relatively far from the urban areas, its staff have to change for minibus in Kennedy Town to get there and transportation is indeed inconvenient. Given that the occupancy rate of Cyberport's offices has almost reached its maximum capacity, will Cyberport consider expanding beyond Telegraph Bay, such as providing lettable offices under its charge in Kowloon East or new development areas?

Please tabulate the number of venues for e-sports competitions and training in Hong Kong at present, including spaces provided by the community and Cyberport. Are there other new venues for e-sports competition and training expected for the e-sports sector in future?

Asked by: Hon CHAN Chi-chuen (LegCo internal reference no.: 35)

Reply:

A consolidated reply to the various parts of the question is as follows:

E-sports

E-sports is an emerging industry with potential for economic development. According to a global e-sports market report by Newzoo, a market research company, the global e-sports revenue is expected to reach US\$1.1 billion (HK\$8.6 billion) in 2019, and the global e-sports audience will rise to 454 million. It is expected that the global revenue and audience will further surge to US\$1.8 billion and 645 million respectively by 2022.

According to a research report by Cyberport, developing e-sports in Hong Kong can facilitate the development of different sectors in the supply chain, including local games, digital entertainment and technologies, media and telecommunications, applied virtual reality technologies, etc. The economic benefits generated include more business or employment opportunities for vendors of specialised e-sports products, live streaming technology companies, Internet service providers, live anchors and commentators as well as practitioners in sound engineering/stage lighting/animation and copywriting. Organising e-sports mega competitions can also attract Mainland and overseas visitors to Hong Kong, bringing in business opportunities for industries such as catering, hospitality and retailing. Statistics on the current number of practitioners in e-sports related industries are currently not available.

With advanced information and communications technology infrastructure as well as experience in hosting large-scale international competitions, Hong Kong is well-equipped to develop e-sports. In recent years, a number of local e-sports players have even received accolades in international competitions. The Hong Kong Tourism Board hosted a 3-day E-sports & Music Festival Hong Kong in August 2017 and August 2018 respectively. The events in 2017 included 3 e-sports tournaments, which attracted a live audience of about 60 000 and 7.4 million online viewers. The events in 2018 also included 3 e-sports tournaments, with over 12 million online viewers around the world.

The Government injected \$100 million into Cyberport in August 2018 to promote the development of the e-sports industry, of which \$50 million would be used for setting up a dedicated e-sports competition venue in the Cyberport Arcade for the industry to host e-sports competitions, activities and training. The remaining \$50 million would be used to support the development of the e-sports industry, including organising local and regional competitions and major events, training programmes and promotional activities. The relevant promotional measures were implemented by Cyberport and did not involve additional Government manpower and expenditure.

Since e-sports venues can operate in various modes and, depending on the actual operational circumstances, involve a wide array of activities, including e-sports competitions, training, competition broadcasting, catering, retailing, games or other entertainment activities, statistics on the number of venues for e-sports competitions and training are currently not available.

Cyberport 5 and Development outside the Campus

The proposed site for the development of Cyberport 5 is situated in a piece of land of approximately 1.6-hectare near the Cyberport Arcade. The expansion project comprises an 11-storey complex which provides about 66 000 square metres of floor area, including offices, co-working space, conference venues and data services platform. About two-third of the area will be used for offices and Smart-Space co-working space.

To tie in with the completion of the dedicated e-sports competition venue in mid-2019, Cyberport is actively liaising with public transport service operators to improve the public transport services in the campus and review the overall transportation arrangements, with a view to accommodating the transportation needs generated by the completion of Cyberport 5 and large-scale activities.

Moreover, under the Space Sharing Scheme for Youth, Cyberport has started operating the first Smart-Space co-working space outside its campus in Tsuen Wan since mid-2018, which covers an area of about 20 000 square feet. Cyberport will consider operating similar facilities if there are suitable sites.

- End -

CONTROLLING OFFICER'S REPLY**ITB003****(Question Serial No. 3158)**Head: (135) Government Secretariat: Innovation and Technology BureauSubhead (No. & title): ()Programme: (2) Innovation and TechnologyControlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)Director of Bureau: Secretary for Innovation and TechnologyQuestion:

It is stated in the Policy Address that on pooling of technology talent, the Government has launched the Technology Talent Admission Scheme and the Technology Talent Scheme, and supported the Research Grants Council (RGC) to introduce fellowship schemes using a three-pronged approach to attract, train and retain talent, thereby enlarging the local innovation and technology talent pool. In this connection, please tabulate the numbers of persons coming to work in Hong Kong or settle under the Technology Talent Admission Scheme, the Technology Talent Scheme and the fellowship schemes respectively and list their places of origin.

Asked by: Hon CHAN Chi-chuen (LegCo internal reference no.: 36)Reply:

The Technology Talent Admission Scheme ("TechTAS") was launched in June 2018, providing a fast-track arrangement for admitting overseas and Mainland technology talent to undertake research and development ("R&D") work in Hong Kong. Based on the information provided by the Immigration Department, a breakdown of the number of non-local persons admitted under TechTAS by their place of origin as at February 2019 is as follows:

Place of origin	Number of non-local persons admitted under TechTAS
Mainland China	29
Taiwan	2
Southeast Asia	5
Others	4
Total	40

The Government launched the Technology Talent Scheme in August 2018, which comprises the Postdoctoral Hub Programme to provide funding support for eligible organisations to recruit postdoctoral talent to conduct R&D work, and the Re-industrialisation and Technology Training Programme to subsidise local companies on a matching basis to train their staff in advanced technologies. These 2 programmes are not admission schemes, and are therefore not relevant to the admission of talent to work or settle in Hong Kong.

On the other hand, according to the information provided by the Education Bureau, the Research Grants Council (“RGC”) plans to launch 3 fellowship schemes in the 2019/20 academic year, including the Postdoctoral Fellowship Scheme, the RGC Research Fellow Scheme and the RGC Senior Research Fellow Scheme. These 3 schemes are only applicable to current university teaching staff/graduating doctoral students, and are therefore not relevant to assisting non-local persons in working or settling in Hong Kong.

- End -

CONTROLLING OFFICER'S REPLY

ITB004

(Question Serial No. 3159)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is said that the progress of opening up traffic data in Hong Kong is slow. Even bus companies do not disclose their real-time data to the public, saying that such data is their company's asset and they are unwilling to release it the public, which causes great inconvenience to application developers. Does the Innovation and Technology Bureau have any measures to facilitate and persuade public service providers, in particular transport operators and car park, and tunnel and bridge operators, to take the initiative to open up data?

It is learned that some companies such as the New Lantao Bus and the Star Ferry do not mind opening up their data. While more and more companies choose to open up their data, those who haven't done so may change their stance. Has the Government made such an attempt?

What are the Government's standards in opening up data? Information such as real-time arrival and departure figures at various control points, real-time booking status of public leisure venues, real-time information on the opening and numbers of users of swimming pools, and the status of application for use of community halls, are all of public concern. Yet, the Government has not opened up these data in a real-time manner. In this connection, could the Government initiate a comprehensive review with all departments and suggest them opening up data for public convenience?

Asked by: Hon CHAN Chi-chuen (LegCo internal reference no.: 38)

Reply:

In consultation with the relevant bureaux/departments (B/Ds), the required information is consolidated and provided as follows:

In October 2018, the Government announced the new open data policy and implementation measures. Under the new policy, B/Ds should as a matter of principle endeavour to release

their data for free public use via the Public Sector Information (PSI) Portal (data.gov.hk), unless there are justifiable reasons (e.g. involving personal data), in order to provide raw materials for technology research and city innovation. Besides, B/Ds are required to encourage public and private organisations under their policy purview to release their data with high degree of public interest as far as possible, and set out relevant specific measures in their annual open data plans.

B/Ds' first annual open data plans were published in late 2018. A dedicated feedback form has been provided on the webpages of B/Ds and the PSI Portal (data.gov.hk) to collect public comments and suggestions. The Office of the Government Chief Information Officer (OGCIO) will follow up with the relevant departments for continuous enhancement of the quality of open data.

Open data of public transport services

On public transport services, the Transport Department (TD) has been promoting the opening-up of the operational data by public transport operators to facilitate commuting and trip planning of the public. At present, major public transport operators have already been providing real-time information. For example, members of the public can access the real-time arrival information of applicable routes for free through the webpages and mobile applications of franchised bus companies, the MTR Corporation Limited (MTRCL) and the Hong Kong Tramways, as well as display panels installed at respective bus stops/platforms. Franchised bus companies also work with the TD in providing real-time arrival information in the TD's "HKeMobility" application. Franchised and licensed ferry operators also disseminate basic service information at their piers and through their webpages and mobile applications.

The Government understands that the community expects dissemination of more real-time public transport data and information. The TD is actively liaising with the public transport operators (including franchised bus companies and the MTRCL) and encouraging them to open up real-time arrival data and release the data in machine-readable format via the PSI Portal. The feedback from the relevant operators has been positive so far. In particular, New World First Bus Services Limited and Citybus Limited have in principle agreed to open up their real-time arrival data in the third quarter of 2019. OGCIO will assist the TD with the preparation work, including the provision of Application Programming Interface.

For green minibuses (GMBs), the 2018 Policy Address proposed to fund and develop a data collection system and a mobile application, as well as install global positioning devices on around 3 300 GMBs in the territory, so as to enable passengers to get access to the real-time arrival information of GMB routes through the "HKeMobility" application. The relevant data will also be released in machine-readable format via the PSI Portal. The TD will install the relevant devices on GMBs and conduct field testing and system trial from mid-2020. The TD aims to launch the system in phases from 2021 with a view to achieving full implementation by 2022.

Data of car park operators

For the data of car park operators, the TD has been encouraging car park operators to release real-time parking vacancy information and data of their car parks to the public through TD's

“HKeMobility” application and the PSI Portal. In October 2018, the TD introduced practical technology solutions to car park operators to facilitate their adoption of suitable options to collect and disseminate relevant information. Since mid-2018, the Lands Department has included provisions requiring operators of new short term tenancy fee-paying public car parks to provide real-time parking vacancy information and data of the car parks concerned to the Government.

As at end February 2019, “HKeMobility” provided real-time parking vacancy information of a total of 276 government and commercial public car parks. The real-time parking vacancy data of 191 car parks was also released via the PSI Portal.

Real-time data of immigration, public recreational venues, swimming pools and community halls, etc.

In December 2013, the Immigration Department (ImmD) launched the “Hong Kong Immigration Mobile Application” for Hong Kong residents and visitors to obtain information on the estimated passenger waiting time at major land boundary control points and other information. The information serves as a reference for Hong Kong residents and visitors so that they may choose a less congested land boundary control point or travel at less busy hours. The ImmD does not have plan to open up real-time immigration data of various boundary control points for the time being.

The Leisure and Cultural Services Department (LCSD) is developing a new intelligent sports and recreation services booking and information system. The new system is designed to include the function of releasing real-time information of the venues available for booking. The information will be provided in phases after the launch of the new system in 2022-23. As for public swimming pools, some of them have already displayed the attendance at the entrances. However, the current information technology system is not equipped with a real-time attendance data transmission function. Therefore, LCSD is not able to further open up such information.

At present, the applications for use of community halls/community centres are mainly processed by district offices manually instead of by computer systems. Therefore, it is unable to provide the relevant real-time data online.

- End -

CONTROLLING OFFICER'S REPLY

ITB005

(Question Serial No. 3764)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

What are the estimated manpower and expenditure for the implementation of the Smart Lampposts Scheme in the coming year? Please set out in tabular form the positions, numbers, expenditures and functions of the smart lampposts to be installed at the selected locations.

Asked by: Hon CHAN Chi-chuen (LegCo internal reference no.: 109)

Reply:

Under the "Multi-functional Smart Lampposts" pilot scheme, the Office of the Government Chief Information Officer (OGCIO) in collaboration with the Highways Department (HyD) will install about 400 new lampposts with smart devices in selected urban locations (Central/Admiralty, Causeway Bay/Wan Chai, Tsim Sha Tsui and Kwun Tong/Kai Tak Development Area). The procurement of equipment for some 50 lampposts under the first phase has been basically completed, and the lampposts will come into operation progressively before mid-2019. The remaining some 350 lampposts will be installed by phases, with all the works expected to be completed in 2021-22. The estimated expenditure of the whole project, including works and smart devices, is about \$272 million. For works (including smart devices) and operation (including daily operation and repair and maintenance of lampposts) of the pilot scheme, the estimated expenditure for 2019-20 is \$48 million and \$7.15 million respectively. Under the pilot scheme, 13 time-limited civil service posts will be created in the Environmental Protection Department, the HyD and the Transport Department, whereas the manpower required by the OGCIO in implementing the pilot scheme will be met by internal deployment.

The locations and functions of 85 smart lampposts expected to be installed in 2019 are set out below:

Selected Locations for Smart Lamppost Installation	No. of Smart Lampposts
<u>First phase (Before mid-2019):</u> <ul style="list-style-type: none"> • Sheung Yuet Road, Kwun Tong • Shing Kai Road, Kowloon City • The redevelopment project of the Urban Renewal Authority (URA) in Kwun Tong 	24 20 8
<u>Second half of 2019:</u> <ul style="list-style-type: none"> • URA redevelopment project in Kwun Tong • Near Kai Tak Cruise Terminal in Kowloon City 	12 21

The locations of the remaining smart lampposts will be confirmed in due course after consultation with the District Councils concerned.

The data to be collected by and functions of these “Multi-functional Smart Lampposts” include:

- collect real-time traffic data, such as traffic speed, traffic flow, etc.;
- monitor traffic conditions;
- collect meteorological and related data at district level, such as wind speed and direction;
- monitor illegal disposal of construction waste; and
- provide positioning services.

- End -

CONTROLLING OFFICER'S REPLY

ITB006

(Question Serial No. 3773)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in the Budget that \$20 billion was set aside in last year's Budget for the first stage construction works of the Hong Kong-Shenzhen Innovation and Technology Park with the target of making the first batch of land available by 2021 for Phase 1 superstructure development. Please set out the specific timetable for the above works and the expenditure and number of staff involved and advise whether the Government will conduct a public consultation on the entire project?

Asked by: Hon CHAN Chi-chuen (LegCo internal reference no.: 118)

Reply:

In consultation with the Development Bureau, the requested information is consolidated and provided as follows:

In May 2018, the Government obtained the approval of the Finance Committee of the Legislative Council (LegCo) for a funding of \$785.9 million for the construction of the Advance Works and the detailed design and site investigation of Main Works Package 1. The respective approved project estimates for the construction of the Advance Works and the detailed design and site investigation of Main Works Package 1 are \$517.6 million and \$268.3 million in money-of-the-day prices. The relevant works as well as the detailed design and site investigation commenced in June and September 2018 respectively. Our target is to make the first batch of land parcels available by 2021 for Phase 1 superstructure development of the Hong Kong-Shenzhen Innovation and Technology Park (the Park). The detailed design and site investigation of Main Works Package 1 are expected to be completed by phases by early 2023 or earlier. We will seek funding approval from the LegCo for the first batch of Main Works and the construction of the first batch of buildings in the Park in a timely manner.

The Civil Engineering and Development Department deployed 5.5 professional staff for the project development of the Loop in 2018-19. In 2019-20, the number of professional staff will be increased to 8.5. There will also be directorate officers overseeing this project, as well as other supporting technical and clerical staff.

Furthermore, the Hong Kong-Shenzhen Innovation and Technology Park Limited (HSITPL) is currently conducting the Master Planning Study and the Business Model and Business Planning Study, which are expected to be completed in the first half of 2019. We will make reference to the findings of the studies in formulating the development strategy and planning of the Park, and further estimate the cost required for developing the Loop.

The Government has consulted relevant parties, including the LegCo, District Councils and Rural Committees in a timely manner in different stages of the Loop development, such as during the Planning and Engineering Study on Development of Lok Ma Chau Loop in 2014, after signing of the Memorandum of Understanding on Jointly Developing the Lok Ma Chau Loop by Hong Kong and Shenzhen in 2017, during the completion of the draft Lok Ma Chau Loop Outline Zoning Plan and the gazettal of the proposed road works of the Advance Works in 2017, and during funding application for the construction of the Advance Works and the detailed design and site investigation of Main Works Package 1 of the Loop in 2018. The Loop development is a large-scale and long-term project. In future, the Government and HSITPL will continue to listen to the views from relevant stakeholders on the development of the Loop and the Park.

- End -

CONTROLLING OFFICER'S REPLY**ITB007****(Question Serial No. 4731)**Head: (135) Government Secretariat: Innovation and Technology BureauSubhead (No. & title): (001) SalariesProgramme: (1) Director of Bureau's OfficeControlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)Director of Bureau: Secretary for Innovation and TechnologyQuestion:

Please tabulate the actual expenditure on the pay and gratuity of each politically appointed official of the Innovation and Technology Bureau (ITB), including the Secretary for Innovation and Technology (S for IT), the Under Secretary for Innovation and Technology and the Political Assistant to S for IT, for the past year.

	Pay	Gratuity
S for IT		
Under Secretary for Innovation and Technology		
Political Assistant to S for IT		

Please tabulate the estimated expenditure on the pay and gratuity of each politically appointed official of the ITB, including the S for IT, the Under Secretary for Innovation and Technology and the Political Assistant to S for IT, for the coming year.

	Pay	Gratuity
S for IT		
Under Secretary for Innovation and Technology		
Political Assistant to S for IT		

Asked by: Hon CHAN Chi-chuen (LegCo internal reference no.: 306)Reply:

The required information is provided as follows:

Actual expenditure in 2018-19

Innovation and Technology Bureau	Salary
Secretary for Innovation and Technology (S for IT)	\$4.06 million
Under Secretary for Innovation and Technology	\$2.64 million
Political Assistant to S for IT	\$1.02 million

Estimated expenditure in 2019-20

Innovation and Technology Bureau	Salary
S for IT	\$4.08 million
Under Secretary for Innovation and Technology	\$2.65 million
Political Assistant to S for IT	\$1.02 million

According to the remuneration package for politically appointed officials serving in the Hong Kong Special Administrative Region Government, politically appointed officials are entitled to Mandatory Provident Fund contributions by the Government but there is no end-of-contract gratuity for them.

- End -

CONTROLLING OFFICER'S REPLY**ITB008****(Question Serial No. 5583)**Head: (135) Government Secretariat: Innovation and Technology BureauSubhead (No. & title): ()Programme: (3) Efficiency OfficeControlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)Director of Bureau: Secretary for Innovation and TechnologyQuestion:

Regarding the cases handled by the 24-hour one-stop service "1823", what are the respective numbers and percentage shares of the departments involved?

Asked by: Hon CHAN Chi-chuen (LegCo internal reference no.: 415)Reply:

The information required is provided as follows:

In 2018, 1823 handled a total of 2.39 million cases, including enquiries and complaints, for the departments set out in the table below:

Department	Number of cases (and respective percentage of the total caseload)	
Hong Kong Housing Authority and Housing Department	368 014	15.37%
Labour Department	352 814	14.74%
Transport Department	231 271	9.66%
Working Family and Student Financial Assistance Agency	202 484	8.46%
Food and Environmental Hygiene Department	183 092	7.65%
Rating and Valuation Department	150 724	6.30%
Hongkong Post	102 512	4.28%
Companies Registry	92 282	3.85%

Department	Number of cases (and respective percentage of the total caseload)	
	Highways Department	72 103
Buildings Department	68 692	2.87%
Leisure and Cultural Services Department	50 076	2.09%
Lands Department	50 027	2.09%
Agriculture, Fisheries and Conservation Department	39 951	1.67%
Social Welfare Department	36 747	1.54%
Tobacco Control Office, Department of Health	19 087	0.80%
Drainage Services Department	19 026	0.79%
Electrical and Mechanical Services Department	15 764	0.66%
Office of the Government Chief Information Officer	11 592	0.49%
Land Registry	4 110	0.17%
Architectural Services Department	2 615	0.11%
Civil Engineering and Development Department	1 280	0.05%
Marine Department	991	0.04%
1823 and non-participating departments	318 594	13.31%
Total	2 393 848	100 %

- End -

CONTROLLING OFFICER'S REPLY

ITB009

(Question Serial No. 2559)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

It was proposed in the Chief Executive's Policy Address last year that a \$2 billion Re-industrialisation Funding Scheme would be established to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong. As indicated in his Budget just delivered, the Financial Secretary has further taken forward the proposal by injecting \$2 billion into the Innovation and Technology Fund for launching the scheme. Will the Government advise this Committee of the following:

- 1) The Innovation and Technology Bureau will continue to oversee the launch of the Re-industrialisation Funding Scheme and the provision of facilities for advanced manufacturing sector in 2019-20. What are the details and progress of the work plan in this regard?
- 2) How much extra manpower will be allocated this year to find the overseas and local manufacturers who are interested in setting up smart production lines in Hong Kong?

Asked by: Hon CHAN Chun-ying (LegCo internal reference no.: 38)

Reply:

A consolidated reply to the two parts of the question is as follows:

The Government plans to inject \$2 billion into the Innovation and Technology Fund for implementing the Re-industrialisation Funding Scheme ("the Scheme") to subsidise manufacturers, on a matching basis, to set up smart production lines in Hong Kong, with a view to expediting the realisation of "re-industrialisation". We are working out the operational details of the Scheme, including the eligibility criteria, scope, form and amount of funding, as well as approval mechanism, and consulting the industry. Moreover, the Government plans to provide an additional allocation of \$2 billion for the Hong Kong

Science and Technology Parks Corporation (“HKSTPC”) to identify suitable land in industrial estates for building manufacturing facilities required by dedicated manufacturing sectors. We will consult the Legislative Council (“LegCo”) Panel on Commerce and Industry on the two measures in May 2019 before seeking funding approval from the Finance Committee of the LegCo, with a view to implementing them in the second half of this year.

The two new measures will be implemented by the Innovation and Technology Commission (“ITC”), and they are part of the work under Programme 3 “Planning for Innovation and Technology” and Programme 4 “Infrastructural Support” of ITC respectively. In 2019-20, the establishments of ITC under Programmes 3 and 4 are 64 and 47 staff respectively, while the estimated expenditures for the two Programmes are \$152.5 million and \$59.6 million respectively, which are mainly used for salaries and departmental expenses. We do not have a breakdown of expenses for specific tasks.

- End -

CONTROLLING OFFICER'S REPLY

ITB010

(Question Serial No. 2560)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

According to the indicators for the Innovation and Technology Fund for Better Living, the actual number of eligible applications received in 2018 was 55 while the estimate for the next year is 60, an increase of less than 10%. Will the Government inform this Committee of the following:

The actual number of projects approved in 2018 was 12 and the estimate for the next year is, similarly, less than a quarter of the number of applications. What are the bases for making the above estimates? Are such estimates related to a lack of funding?

Asked by: Hon CHAN Chun-ying (LegCo internal reference no.: 39)

Reply:

The Innovation and Technology Fund for Better Living ('FBL') was launched in May 2017. As at March 2019, we have received a total of 79 eligible applications, among which 5 were returned due to various reasons. The FBL Assessment Panel ('the Panel') has assessed 62 applications and supported funding for 18 projects with a total grant of about \$59 million.

The estimated number of eligible applications to be received and approved projects for 2019 is predicted based on the actual figures of 2018. To ensure proper use of public money, the Panel has a set of objective assessment criteria in place to process each eligible application. The assessment criteria include: benefits brought to the public or specific community group(s), innovation and technology content, feasibility and sustainability, financial considerations, and technical and management capability of the applicant.

We will review the FBL in the middle of this year to enhance its mode of operation and other arrangements, with a view to attracting more eligible applications and approving more projects.

- End -

CONTROLLING OFFICER'S REPLY

ITB011

(Question Serial No. 2563)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (3) Efficiency Office

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Under Matters Requiring Special Attention in 2019-20, the Innovation and Technology Bureau (ITB) has indicated that it will engage an intermediary to develop and operate a gerontechnology platform and explore new funding mechanisms for social ventures. Will the Government inform this Committee:

- (1) how will the proposed gerontechnology platform and the GLink currently run by the Hong Kong Productivity Council (HKPC) divide their work;
- (2) how much manpower will be deployed to develop and operate the gerontechnology platform this year; and
- (3) how much provision will be earmarked for developing the platform?

Asked by: Hon CHAN Chun-ying (LegCo internal reference no.: 44)

Reply:

Below is a consolidated reply on the information sought.

In February 2017, the Social Innovation and Entrepreneurship Development Fund (SIE Fund) engaged the Hong Kong Council of Social Service to undertake the first Landscape Study on Gerontechnology in Hong Kong and organise a cross-sector workshop on the topic. The report of the study set out major difficulties faced by the gerontechnology sector including insufficient collaboration among stakeholders, difficulty in localisation of overseas commercially successful products, lack of testing ground for product development, etc. In light of the report, stakeholders from different sectors suggested that the SIE Fund should consider establishing a gerontechnology platform linking up different stakeholders so as to foster the development and application of gerontechnology in Hong Kong.

Upon further consultation with stakeholders, the SIE Fund plans to engage an intermediary in 2019 to develop and operate a gerontechnology platform that will link up different stakeholders. Apart from linking up stakeholders on the supply side, the platform will connect the supply side with the demand side so as to facilitate the development of the gerontechnology ecosystem in Hong Kong. The SIE Fund will issue an open invitation in April 2019 to invite proposals from parties interested in taking up the role of intermediary.

We understand that different organisations, including the Hong Kong Productivity Council, are currently working on various initiatives to facilitate the development of gerontechnology in Hong Kong. The objective of the gerontechnology platform to be established by the SIE Fund is not to replace or duplicate the work being taken forward by these organisations, but to link up these players and their ongoing work, facilitate cross-sector collaboration and gather the efforts of all sectors to address the ageing issue in a holistic manner. Therefore, in the open invitation for organisations to develop and operate the gerontechnology platform, the SIE Fund will require applicants to set out and explain in their proposals the strategies and plans for collaboration with other organisations with a view to achieving co-ordination of the resources from different organisations and avoiding duplication of efforts, and thereby creating synergy to collectively build a healthy gerontechnology ecosystem in Hong Kong.

The work of engaging an intermediary to develop and operate the gerontechnology platform will be handled by existing staff of the Efficiency Office and no additional manpower will be involved. Since the project will be taken forward through an open invitation for proposals, it is not appropriate to make public the estimated expenditure of the project at this stage.

- End -

CONTROLLING OFFICER'S REPLY

ITB012

(Question Serial No. 2566)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

The matters requiring special attention in 2019-20 for the Innovation and Technology Bureau (ITB) include continuing to oversee the “Technology Talent Admission Scheme” and the “Technology Talent Scheme”; and one of the main responsibilities of ITB is to formulate policies to augment the pool of innovation and technology talents. Will the Government advise of the following:

- 1) whether there are plans to implement the policies relating to the pool of innovation and technology talents by phases;
- 2) the additional amount of provision and manpower to be deployed for augmenting the pool of innovation and technology talents; and
- 3) how will the effectiveness of the above policies be evaluated?

Asked by: Hon CHAN Chun-ying (LegCo internal reference no.: 34)

Reply:

A consolidated reply to the different parts of the question is as follows:

The Innovation and Technology Bureau actively pools together technology talent by attracting, nurturing and retaining talent, with a view to enlarging the innovation and technology (“I&T”) talent pool in Hong Kong.

For attracting talent, we launched the Technology Talent Admission Scheme in June 2018, which provides a fast-track arrangement for eligible technology companies/institutes to admit overseas and Mainland technology talent to undertake research and development

("R&D") work in Hong Kong. In 2019-20, the Innovation and Technology Commission ("ITC") will create 3 additional civil servant posts, including a Senior Executive Officer, an Executive Officer II and an Assistant Clerical Officer, to continue to implement the Scheme. The annual salary cost of the additional posts is about \$1.86 million.

For nurturing and retaining talent, we launched the Technology Talent Scheme in August 2018, which comprises the Postdoctoral Hub ("PH") and the Re-industrialisation and Technology Training Programme ("RTTP"). The PH provides funding support for organisations funded by the Innovation and Technology Fund, incubatees/I&T tenants of the Hong Kong Science and Technology Parks Corporation and Cyberport as well as local I&T start-ups co-invested by the Innovation and Technology Venture Fund to recruit postdoctoral talent to conduct R&D work. As at end-January 2019, we have approved 360 applications, with a total funding amount of over \$180 million. To further strengthen the nurturing of I&T talent, we have extended the funding period from 2 years to 3 years since end-February 2019, so that postdoctoral talent will have ample time to demonstrate their strengths in R&D projects. We expect to receive about 400 applications each year, and the additional annual expenditure for extending the funding period is about \$150 million. The RTTP subsidises local companies on a 2:1 matching basis to train local staff in technologies. As at end-January 2019, the RTTP has subsidised 349 existing staff of local companies to receive technology training with the total amount of subsidy amounting to about \$2.35 million. In 2019-20, the ITC will continue to implement the PH and the RTTP with its existing manpower.

We will keep in view the implementation of the aforementioned schemes, including the number of applications, the industry's feedback, the number of beneficiaries and the funding amount, etc, in order to evaluate the effectiveness of the relevant policies.

- End -

CONTROLLING OFFICER'S REPLY**ITB013****(Question Serial No. 4352)**Head: (135) Government Secretariat: Innovation and Technology BureauSubhead (No. & title): ()Programme: Not SpecifiedControlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)Director of Bureau: Secretary for Innovation and TechnologyQuestion:

Regarding its work in relation to the Code on Access to Information, will the Administration advise this Committee on the following:

1) concerning the requests for information under the Code on Access to Information received by the Innovation and Technology Bureau for which only part of the required information was provided, please state in table form: (i) the content of the requests for which only part of the required information was provided; (ii) the reasons for providing part of the information only; and (iii) how the requests were eventually handled.

Year

(i) Content of the requests for which only part of the required information was provided	(ii) Reasons for providing part of the information only	(iii) How the requests were eventually handled

2) concerning the requests for information under the Code on Access to Information received by the Innovation and Technology Bureau for which the required information was not provided, please state in table form: (i) the content of the requests refused; (ii) the reasons for refusal; and (iii) how the requests were eventually handled.

Year

(i) Content of the requests refused	(ii) Reasons for refusal	(iii) How the requests were eventually handled

Asked by: Hon CHAN Tanya (LegCo internal reference no.: 96)

Reply:

The required information is provided below:

- (1) Among the requests for information under the Code on Access to Information (the Code) received by the Innovation and Technology Bureau (ITB) between January and September 2018, there was only 1 application which “only part of the information was provided”. As disclosing the required information would violate the principle of confidentiality of the relevant guidelines for handling such cases and affect the way we handle similar cases in the future, not to mention the fact that the required information contained information provided by a third party and personal data, the ITB only provided the applicant with a summary of the course of handling the case concerned in accordance with paragraphs 2.9(c), 2.10(b), 2.14(a) and 2.15 of the Code.
- (2) The ITB did not reject any request for information under the Code between January and September 2018.

- End -

CONTROLLING OFFICER'S REPLY

ITB014

(Question Serial No. 5073)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

1. Please set out in detail the achievements of the Bureau in promoting innovation and technology (I&T) since its establishment, the expenditure and number of staff involved.
2. What are the anticipated progress and achievements of the work on developing local I&T industries in 2019-2020? What are the estimated expenditure and manpower involved?
3. What are the anticipated progress and achievements of the work on promoting research and development (R&D) collaboration with the world's top-notch science and research institutes in 2019-2020? What are the estimated expenditure and manpower involved?
4. What are the anticipated progress and achievements of the work on promoting "re-industrialisation" through the development of smart production and high value-added industries in 2019-2020? What are the estimated expenditure and manpower involved?
5. What are the anticipated progress and achievements of the work on encouraging private sector investments in technology start-ups and R&D activities in 2019-2020? What are the estimated expenditure and manpower involved?
6. What are the anticipated progress and achievements of the work on supporting the formulation of digital framework and technical standards for smart city development in 2019-2020? What are the estimated expenditure and manpower involved?
7. What are the anticipated progress and achievements of the work on promoting the development of Hong Kong into a Wi-Fi connected city and facilitating open data

applications in 2019-2020? What are the estimated expenditure and manpower involved?

8. What are the anticipated progress and achievements of the work on promoting the application of innovative technologies in addressing social issues in 2019-2020? What are the estimated expenditure and manpower involved?
9. What are the anticipated progress and achievements of the work on formulating policies to support the use of local technology products and services in 2019-2020? What are the estimated expenditure and manpower involved?
10. What are the anticipated progress and achievements of the work on formulating policies to augment the pool of I&T talents in 2019-2020? What are the estimated expenditure and manpower involved?
11. What are the estimated expenditure and manpower involved for encouraging collaboration among institutions in developing I&T in 2019-2020?
12. How will the Bureau support the development of the Guangdong-Hong Kong-Macao Greater Bay Area into an international I&T hub in 2019-2020? What are the estimated expenditure and manpower involved?

Asked by: Hon CHAN Tanya (LegCo internal reference no.: 108)

Reply:

The consolidated reply to the various parts of the question is as follows:

- (1) Since the establishment of the Innovation and Technology Bureau (“ITB”) in November 2015, the Government has devoted a large amount of resources and launched a series of initiatives with a view to perfecting the innovation and technology (“I&T”) ecosystem in Hong Kong.

On I&T infrastructure, the works of the Hong Kong Science Park (“Science Park”) Stage 1 Expansion Programme, Data Technology Hub and Advanced Manufacturing Centre (“AMC”) in the Tseung Kwan O Industrial Estate, as well as the Hong Kong-Shenzhen Innovation and Technology Park in the Loop are progressing at full steam.

On promoting research and development (“R&D”), we continue to provide funding support through the Innovation and Technology Fund (“ITF”). We also provide super tax deduction for qualifying R&D expenditure. In addition, we are establishing 2 research clusters at the Science Park, with a view to attracting overseas and Mainland top-notch R&D institutions to Hong Kong to undertake collaborative research with our local institutions.

On pooling talent, we have launched the Technology Talent Admission Scheme and the Technology Talent Scheme to attract non-local talent and nurture local

talent. We are also building the InnoCell adjacent to the Science Park to provide technology talent with suitable living space.

In order to support technology enterprises, we have set up the Innovation and Technology Venture Fund and Technology Voucher Programme, as well as introduced new policy to encourage opening of data. We have also injected additional funding to the Hong Kong Science and Technology Parks Corporation (“HKSTPC”) and Cyberport respectively for enhancing support to their tenants and incubatees.

In addition, we promulgated the “Hong Kong Smart City Blueprint” which covers over 70 concrete initiatives. We have also been actively participating in the development of an international innovation and technology (“I&T”) hub in the Guangdong-Hong Kong-Macao Greater Bay Area.

- (2) and (4) On promoting “re-industrialisation”, we plan to launch the \$2 billion Re-industrialisation Funding Scheme within the second half of 2019 to subsidise manufacturers, on a matching basis, to set up smart production lines in Hong Kong. We will also provide \$2 billion to the HKSTPC for developing dedicated facilities required by the advanced manufacturing sector in the industrial estates. In addition, the HKSTPC is developing the AMC in the Tseung Kwan O Industrial Estate. Completion estimated in 2022, the AMC will foster smart production and advanced assembly of the high value-added manufacturing industries and cover extended activities such as R&D, logistics support, prototyping and design etc.

In respect of training of talent, the Government rolled out the Re-industrialisation and Technology Training Programme in August 2018 to subsidise local companies, on a 2:1 matching basis, to train their existing staff in technologies, especially those related to “Industry 4.0”. As at end-January 2019, the Programme approved 175 applications for training grant, subsidising the technology training of 349 existing staff members of local companies with a total funding amount of about \$2.35 million.

- (3) The Government is actively taking forward the establishment of InnoHK research clusters in the Science Park, with a view to attracting world class universities and scientific research institutions to come to Hong Kong and conduct more collaborative R&D projects with local universities and research institutions. The clusters will foster more co-operation between local and overseas elite researchers, thereby pooling and nurturing more technology talents in Hong Kong. Since the announcement of the initiative, 47 proposals have been received from a number of world leading universities and scientific research institutions from Hong Kong, overseas and the Mainland. Our target is for the first batch of scientific research institutions to take forward laboratories work in the research clusters concerned starting from the fourth quarter of 2019.
- (5) The Government has established a \$2 billion Innovation and Technology Venture Fund (“ITVF”) to encourage venture capital funds to invest in Hong Kong’s

technology start-ups. We have selected 6 venture capital funds as co-investment partners, and have been receiving investment invitations and proposals from them. We are now actively considering whether to make co-investment.

To encourage private enterprises to conduct more R&D activities in Hong Kong, we have amended the Inland Revenue Ordinance to provide a two-tier rate of enhanced tax deduction for qualifying R&D expenditure incurred by enterprises on 1 April 2018 and thereafter. The deduction is 300% for the first \$2 million of qualifying R&D expenditure and 200% for the remaining amount. There is no cap on the amount of enhanced tax deduction.

We also provide cash rebate to dedicated R&D projects conducted by eligible enterprises through the R&D Cash Rebate Scheme (“CRS”). We raised the level of cash rebate to 40% under the CRS in 2016. As at end-January 2019, cash rebates were approved for 1 227 companies, involving a total of about \$450 million.

- (6) The Government promulgated the “Hong Kong Smart City Blueprint” in December 2017. The Office of the Government Chief Information Officer (“OGCIO”) is actively pushing ahead with three smart city infrastructure projects, including: the “eID”, the Multi-functional Smart Lampposts pilot scheme and the Next Generation GovCloud. The estimated expenditure of the three projects in 2019-20 are about \$21 million, \$55 million and \$35 million respectively.
- (7) As at end-February 2019, there were 23 166 “Wi-Fi.HK” hotspots under the “Wi-Fi Connected City” programme. In 2019-20, we will continue to progressively expand the coverage of the free “Wi-Fi.HK” service in a multi-pronged approach to provide the public and visitors with free Wi-Fi service in various districts across the territory. Our target is to bring the total number of “Wi-Fi.HK” hotspots to 34 000 by the end of 2019. In 2019-20, the estimated expenditure of the “Wi-Fi Connected City” programme is about \$74 million.

According to the annual open data plans published by government bureaux and departments (“B/Ds”) in end-2018, about 700 new datasets and about 80 Application Programming Interfaces will be made available on the “data.gov.hk” portal in 2019 for free use by the public. Furthermore, the OGCIO will introduce a city dashboard function by the end of 2019 for the public to view city data (including data related to traffic, weather, environment, etc.) on the “data.gov.hk” portal conveniently.

- (8) The ITB launched a \$500 million Innovation and Technology Fund for Better Living at end May 2017 to finance I&T projects which make life more convenient, more comfortable and safer, or cater for the needs of specific groups. To date, 18 projects have obtained the Fund Assessment Panel’s funding support, involving around \$59 million in total. The first batch of I&T projects will be implemented progressively in 2019 to benefit the public.

- (9) The Government supports the use of local technology products and services through a number of measures.

Firstly, the OGCI will establish the Smart Government Innovation Lab (“SGIL”) in April this year to help promote the procurement and use by government departments of I&T products and solutions from local start-ups and small and medium enterprises (“SMEs”). In addition to exchange activities such as forums and workshops, the OGCI will set up a dedicated webpage setting out the problems facing different public services and will invite the industry to submit technology solutions and product suggestions. Trials and technology testing for proposals that fulfill the needs of departments will be arranged in collaboration with relevant departments. In 2019-20, the estimated expenditure on the SGIL is about \$4.9 million.

Second, the OGCI set up a Minor Group in the Standing Offer Agreement for Quality Professional Services (SOA-QPS) to enable local SMEs to provide information technology (“IT”) services to departments. In the new SOA-QPS4, the contract value limit of the minor group has more than doubled from \$1.43 million to \$3 million, so as to facilitate the SMEs to participate in government projects of higher contract values. Among the 49 companies participating in the SOA-QPS4, 16 of them (33%) are SMEs, an increase of 6 SMEs as compared with the last agreement. Starting from this April, the OGCI will also revise the existing Standard Marking Scheme for tenders and the marking scheme under the SOA-QPS4 to ensure that the procurement arrangements of IT projects are in line with the new pro-innovation procurement policy.

Moreover, the Public Sector Trial Scheme (“PSTS”) subsidises R&D projects funded by the ITF as well as incubatees of the HKSTPC and Cyberport for production of tools/prototypes/samples and their trials in the public sector in order to foster the commercialisation of local R&D results. As at end-January 2019, the PSTS has funded 202 projects at a total amount of about \$334 million, benefitting more than 280 public sector organisations.

- (10) The ITB actively pools technology talent through a 3-pronged approach of attracting, nurturing and retaining talent. In the past year, the following measures were implemented:

- (a) Launched in June 2018, the Technology Talent Admission Scheme provides a fast-track arrangement for eligible technology companies/institutes to admit overseas and Mainland technology talent to undertake R&D work. As at end-February 2019, 225 quota applications were approved under the Scheme;
- (b) Launched in August 2018, the Postdoctoral Hub offers funding to recruit postdoctoral talent to engage in R&D projects. As at end-January 2019, 360 applications were approved with a total funding amount of over \$180 million;

- (c) Launched in August 2018, the Re-industrialisation and Technology Training Programme subsidises local companies on a 2:1 matching basis to train their staff in technologies. As at end January 2019, 349 existing staff members of local companies received subsidies for technology training under the Programme with a total funding amount of about \$2.35 million; and
 - (d) With effect from end-February, 2019, the monthly allowance under the Researcher Programme has been increased from \$16,000 to \$18,000 for graduates with a Bachelor's degree and from \$19,000 to \$21,000 for graduates with a Master's degree. The maximum engagement period under the Researcher Programme and the Postdoctoral Hub has also been extended from 2 years to 3 years. Upon increasing the allowance and extending the engagement period of the Researcher Programme, an additional estimated annual expenditure of about \$184 million will be incurred. Extending the engagement period of the Postdoctoral Hub will incur an additional annual expenditure of about \$150 million.
- (11) The ITB and its departments will continue to encourage the collaboration and co-operation among various I&T institutions. The ITB will proactively strengthen the ties with various stakeholders, including the relevant government departments, R&D Centres, universities, the HKSTPC, Cyberport, the HKPC, etc. We will revisit the work priorities and interactions of various institutions from time to time, so as to ensure that the institutions can make good use of their resources, complement each other and create synergy, with a view to developing the I&T sector of Hong Kong in unison.
- (12) The establishment of an international I&T hub is a focus of the "Outline Development Plan for the Guangdong-Hong Kong-Macao Greater Bay Area". While Hong Kong possesses strong R&D capabilities and advantages as an international and market-oriented economy, the Greater Bay Area has a sizeable market as well as capabilities in commercialising R&D results and advanced manufacturing. With the ability of pooling together innovation resources from the Mainland and across the globe and achieving synergistic development with other cities in the Greater Bay Area with regard to their comparative strengths, Hong Kong can build up a comprehensive industry chain for commercialising R&D results. In this regard, the Government will take forward a number of initiatives to strongly enhance the I&T ecosystem in Hong Kong, including establishing international I&T clusters, pooling international technology resources, fostering flows of R&D factors and developing the Hong Kong-Shenzhen Innovation and Technology Park, etc. We will actively facilitate the work of developing the Greater Bay Area into an international I&T hub, which will provide Hong Kong with a broader arena for I&T development.

The overall estimated expenditure of the ITB for 2019-20 is about \$750 million. The ITB is taking forward the above-mentioned work in collaboration with its departments using existing manpower. We do not have a breakdown of the manpower expenditure involved.

- End -

CONTROLLING OFFICER'S REPLY

ITB015

(Question Serial No. 4824)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the records management work of your Bureau and the departments under your purview over the past year:

- (1) Please provide information on the number and rank of officers designated to perform such work. If there is no officer so designated, please provide information on the number of officers and the hours of work involved in records management duties, and the other duties they have to undertake.
- (2) Please list in table form information on closed programme and administrative records pending transfer to the Government Records Service (GRS) for appraisal, including:

Category of records	
Years covered by the records	
Number and linear metres of records	
Retention period approved by GRS	
Whether they are confidential documents	
Reasons for not having been transferred	

- (3) Please list in table form information on programme and administrative records which have been transferred to GRS for retention, including:

Category of records	
Years covered by the records	
Number and linear metres of records	
Years that the records were transferred to GRS	
Retention period approved by GRS	
Whether they are confidential documents	

- (4) Please list in table form information on records which have been approved for destruction by GRS, including:

Category of records	
Years covered by the records	
Number and linear metres of records	
Years that the records were transferred to GRS	
Retention period approved by GRS	
Whether they are confidential documents	

Asked by: Hon CHEUNG Chiu-hung, Fernando (LegCo internal reference no.: 1500)

Reply:

The required information is provided below:

Innovation and Technology Bureau

- (1) In accordance with the Government's records management policy, the Innovation and Technology Bureau (ITB) has designated staff of different ranks to perform records management duties as follows:
- (a) 1 Chief Executive Officer (CEO) serving as Departmental Records Manager (DRM) to devise, carry out and document departmental records management practices and procedures according to the guidelines and advice of the Government Records Service (GRS);
 - (b) 1 Executive Officer II (EOII) serving as Assistant Departmental Records Manager (ADRM) to assist the DRM in the execution of the duties concerned;
 - (c) 7 Executive Officer Is (EOIs), 2 EOIIs and 1 Senior Information Officer being responsible for supervising records management work in different divisions/sections; and
 - (d) 3 Clerical Officers (COs), 11 Assistant Clerical Officers (ACOs) and 2 Clerical Assistants (CAs) being responsible for the execution of certain records management duties.

In the course of performing daily duties, staff of different ranks in ITB take part in related records management work to meet operational needs.

- (2), (3) & (4) ITB does not have any programme or administrative records which have been closed pending transfer to the GRS for appraisal, transferred to the GRS for retention or approved for destruction by the GRS.

Efficiency Office

- (1) In accordance with the Government's records management policy, the Efficiency Office (EffO) has designated staff of different ranks to perform records management duties as follows:
- (a) 1 Principal Executive Officer serving as DRM to devise, carry out and document departmental records management practices and procedures according to the guidelines and advice of the GRS;
 - (b) 3 CEOs serving as ADRMs to assist the DRM in the execution of the duties concerned;
 - (c) 1 Senior Executive Officer (SEO) and 2 EOIs serving as Records Managers to supervise records management in different divisions/sections; and
 - (d) 1 EOII, 5 ACOs, 3CAs, 1 Assistant Manager, 1 Assistant Customer Service Supervisor and 1 Operation Assistant being responsible for the execution of certain records management duties.

In the course of performing daily duties, staff of different ranks in EffO take part in related records management work to meet operational needs.

- (2) Information on closed records pending transfer to the GRS for appraisal as follows:

Category of records	Programme records
Years covered by the records	1986-2019
Number and linear metres of records	266 records/13.3 linear metres
Retention period approved by the GRS	7 years
Whether they are confidential documents	53 of them are confidential documents
Reasons for not having been transferred	The retention period approved by the GRS is not yet expired

- (3) Information on records which have been transferred to the GRS for retention as follows:

Category of records	Programme records
Years covered by the records	1994-2009
Number and linear metres of records	77 records/2.75 linear metres
Years that the records were transferred to the GRS	2017-2018
Retention period approved by the GRS	7 years
Whether they are confidential documents	No

- (4) Information on records which have been approved for destruction by the GRS as follows:

Category of records	Programme records
Years covered by the records	1983-2009
Number and linear metres of records	624 records/22.25 linear metres
Years that the records were transferred to the GRS	2017-2018
Retention period approved by the GRS	7 years
Whether they are confidential documents	No

Office of the Government Chief Information Officer

- (1) In accordance with the Government's records management policy, the Office of the Government Chief Information Officer (OGCIO) has designated staff of different ranks to perform records management duties as follows:

- (a) 1 CEO serving as DRM to devise, carry out and document departmental records management practices and procedures according to the guidelines and advice of the GRS;
- (b) 1 SEO serving as ADRM to assist the DRM in the execution of the duties concerned;
- (c) 3 EOIs, 1 EOII, 3 Senior Clerical Officers (SCOs), 1 Accounting Officer I, 1 Chief Training Officer, 1 Computer Operation Manager and 1 Senior Supplies Officer being responsible for supervising records management in different divisions/sections; and
- (d) 5 COs, 8 ACOs, 1 Personal Secretary II and 1 Senior Computer Operator being responsible for the execution of certain records management duties.

In the course of performing daily duties, staff of different ranks in OGCIO take part in related records management work to meet operational needs.

- (2) Information on closed records pending transfer to the GRS for appraisal as follows:

Category of records	Administrative records
Years covered by the records	1999-2018
Number and linear metres of records	15 records/0.75 linear metres
Retention period approved by the GRS	3 - 13 years
Whether they are confidential documents	No
Reasons for not having been transferred	The retention period approved by the GRS is not yet expired

- (3) Information on records which have been transferred to the GRS for retention as follows:

Category of records	Administrative records
Years covered by the records	1997-2004
Number and linear metres of records	5 records/0.25 linear metres
Years that the records were transferred to the GRS	2016-2018
Retention period approved by the GRS	Permanent retention
Whether they are confidential documents	No

- (4) Information on records which have been approved for destruction by the GRS as follows:

Category of records	Administrative records	Programme records
Years covered by the records	1987-2016	1972-2005
Number and linear metres of records	19 451 records/ 29.72 linear metres	2 987 records/ 149.35 linear metres
Years that the records were transferred to the GRS	2016-2018	2016-2018
Retention period approved by the GRS	3 months to 7 years	14 years
Whether they are confidential documents	Yes: 23 No: 19 428	Yes: 164 No: 2 823

Innovation and Technology Commission

- (1) In accordance with the Government's internal guidelines and codes, the Innovation and Technology Commission (ITC) has designated staff of different ranks to undertake different duties on departmental records management as part of their overall duties and report to a directorate officer responsible for overseeing such work:
- (a) 1 CEO serving as DRM to assist in establishing and implementing the departmental records management programme;
 - (b) 2 EOIs serving as ADRMs to assist the DRM in the execution of the duties concerned; and
 - (c) 8 officers not below the rank of EOII serving as Records Managers to monitor the records management of various divisions.

In addition, each division has its own general registry with clerical grade staff responsible for filing and records management routines. In this regard, ITC has 1 SCO, 11 COs, 37 ACOs and 13 CAs.

(2) Information on closed records pending transfer to the GRS for appraisal as follows:

Category of records	Programme records	Programme records	Administrative records	Administrative records
Years covered by the records	1999-2018	2007-2018	2011-2018	1992-2018
Number and linear metres of records	539 records/ 26.54 linear metres	213 records/ 10.65 linear metres	180 records/ 9 linear metres	24 records/ 1.2 linear metres
Retention period approved by the GRS	1 to 25 years	8 to 30 years	2 to 7 years	1 to 7 years
Whether they are confidential documents	No	Yes	No	Yes
Reasons for not having been transferred	The retention period approved by the GRS is not yet expired			

(3) Information on records which have been transferred to the GRS for retention as follows:

Category of records	Programme records
Years covered by the records	1967 - 1983
Number and linear metres of records	10 records/0.40 linear metres
Years that the records were transferred to the GRS	2018
Retention period approved by the GRS	Permanent retention
Whether they are confidential documents	No

(4) Information on records which have been approved for destruction by the GRS as follows:

Category of records	Programme records	Administrative records	Administrative records
Years covered by the records	1976 - 2002	1984 - 2014	1984 - 2000
Number and linear metres of records	806 records/ 16.44 linear metres	465 records/ 19.345 linear metres	87 records/ 4.35 linear metres
Years that the records were transferred to the GRS	2018	2016 - 2018	2018
Retention period approved by the GRS	8 to 15 years	Retained according to the General Administrative Records Disposal Schedules of the GRS, generally for 0 to 7 years after closure of the files	
Whether they are confidential documents	No	No	Yes

- End -

CONTROLLING OFFICER'S REPLY**ITB016****(Question Serial No. 4825)**Head: (135) Government Secretariat: Innovation and Technology BureauSubhead (No. & title): ()Programme: (2) Innovation and TechnologyControlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)Director of Bureau: Secretary for Innovation and TechnologyQuestion:

Regarding the studies conducted by the Bureau and departments under its purview for the purpose of formulating and assessing policies (if any), please provide the relevant information in the following format.

- (a) Please provide in the table below information on the studies on public policy and strategic public policy for which funds were allocated over the past 2 financial years:

Name of consultant	
Mode of award (public bidding/tender/others (please specify))	
Title, content and objectives of project	
Consultancy fee (\$)	
Commencement date	
Progress of study (under planning/in progress/completed)	
Follow-ups taken by the Government on the study reports and their progress (if any)	
If completed, have they been made public? If yes, through what channel(s)? If not, what were the reasons?	

- (b) Are there any projects for which funds have been reserved for conducting internal studies this year? If yes, please provide the following information:

Title, content and objectives of project	
Commencement date	
Progress of study (under planning/in progress/completed)	
Follow-ups taken by the Government on the study reports and their progress (if any)	
For the projects that are expected to be completed this year, is there any plan to make them public? If yes, through what channels? If not, what are the reasons?	

(c) Are there any projects for which funds have been reserved for conducting consultancy studies this year? If yes, please provide the following information:

Name of consultant	
Mode of award (public bidding/tender/others (please specify))	
Title, content and objectives of project	
Consultancy fee (\$)	
Commencement date	
Progress of study (under planning/in progress/completed)	
Follow-ups taken by the Government on the study reports and their progress (if any)	
For the projects that are expected to be completed this year, is there any plan to make them public? If yes, through what channels? If not, what are the reasons?	

(d) What are the criteria for considering the award of consultancy projects to the relevant research institutions?

Asked by: Hon CHEUNG Chiu-hung, Fernando (LegCo internal reference no.: 1501)

Reply:

(a) The studies on public policy and strategic public policy for which funds were allocated by the Innovation and Technology Bureau and departments under its purview in 2017-18 include:

Name of consultant	Mode of award (public bidding/ tender/ others (please specify))	Title, content and objectives of project	Consultancy fee (\$)	Commencement date	Progress of study (under planning/in progress/ completed)	Follow-ups taken by the Government on the study reports and their progress (if any)	If completed, have they been made public? If yes, through what channel(s)? If not, what were the reasons?
PricewaterhouseCoopers Advisory Services Limited	Tender	<p><u>Title of the project</u> Study on the Development of Hong Kong as a Smart City</p> <p><u>Content</u> To study the information technology infrastructure required for smart city development in Hong Kong and formulate the digital framework and technical standards, and initiatives/ proposals.</p> <p><u>Objective</u> To formulate a blueprint for smart city development in Hong Kong.</p>	5 million	September 2016	Completed	The Government released the Smart City Blueprint for Hong Kong in mid-December 2017 and briefed the Legislative Council (LegCo) Panel on Information Technology and Broadcasting in January 2018.	<p>The study report was uploaded onto the smart city's dedicated website (www.smartcity.gov.hk) for public reference in end-June 2017.</p> <p>The Government briefed the LegCo Panel on Information Technology and Broadcasting on the findings and recommendations of the study in July 2017.</p>

Name of consultant	Mode of award (public bidding/ tender/ others (please specify))	Title, content and objectives of project	Consultancy fee (\$)	Commencement date	Progress of study (under planning/in progress/ completed)	Follow-ups taken by the Government on the study reports and their progress (if any)	If completed, have they been made public? If yes, through what channel(s)? If not, what were the reasons?
KPMG Advisory (Hong Kong) Limited	Tender	<p><u>Title of the project</u> Study on Promoting the Use of Digital Certificates and Institutional Arrangements for Public Certification Authority Service</p> <p><u>Content</u> To explore ways to promote use of digital certificates in e-commerce and e-government and review the institutional arrangements for public certification authority service, including use of mobile technologies to enhance the use of digital certificates.</p> <p><u>Objective</u> To create a secure and reliable infrastructure for the development of e-commerce and smart city.</p>	4.117 million	December 2016	Completed	The LegCo Panel on Information Technology and Broadcasting was briefed in March 2018 on the proposed implementation of the eID project as recommended in the Consultancy Report, and funding was approved by the Finance Committee of the LegCo in May 2018.	While the report is mainly for internal reference, it can be made available for public reference if necessary.

We have not commissioned any consultancy study on public policy in 2018-19.

(b) & (c) We have not planned or set aside any funding for conducting internal studies and consultancy studies in 2019-20.

(d) We assess the proposals submitted by consultants in accordance with the contents of the tender document and the established procedures. The areas of assessment include the consultant's understanding of the study, relevant expertise and experiences, the proposed research methodology, work plan and timetable, and the price quotations, etc.

- End -

CONTROLLING OFFICER'S REPLY

ITB017

(Question Serial No. 4826)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: Not specified

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please provide the following details of each of the meetings, visits and exchange activities with relevant Mainland authorities made in the past year in chronological order: (a) purpose and destination, (b) post titles of the officials met, (c) number and post titles of Hong Kong officials in entourage, (d) number of days of the visit, and (e) total expenditure incurred, including expenses on (i) transportation (air tickets and local transportation), (ii) accommodation, (iii) meals, (iv) banquets or entertainment and (v) gifts.

Date

(a)

(b)

(c)

(d)

(e)

(i)

(ii)

(iii)

(iv)

Asked by: Hon CHEUNG Chiu-hung, Fernando (LegCo internal reference no.: 1502)

Reply:

Details of duty visits to the Mainland conducted by staff of the Innovation and Technology Bureau in 2018-19 (as at the end of February 2019) are as follows:

Dates of visits (No. and duration of visits)	Places of visits	Number of participants	Purposes of visits	Passage expenses HK\$	Hotel expenses HK\$	Other expenses^{Note} HK\$	Total expenditure HK\$
2018-19 (as at the end of February 2019) (21 visits) (Total: 44 days)	Shanghai, Shenzhen, Dongguan, Zhongshan, Foshan, Guangzhou, Sichuan, Beijing, Hengqin, Zhuhai, Tianjin, Wuzhen of Zhejiang and Fujian	1- 10 for each visit	To attend meetings and events, and conduct exchanges (e.g. attending the 2018 Summer Davos Forum etc., and meeting with government officials, local bodies and personnel from innovation and technology organisations)	About 103,000	About 33,000	About 78,000	About 214,000

Note: Other expenses include subsistence allowances and entertainment expenses.

- End -

CONTROLLING OFFICER'S REPLY**ITB018****(Question Serial No. 5911)**Head: (135) Government Secretariat: Innovation and Technology BureauSubhead (No. & title): (000) Operational expensesProgramme: (3) Efficiency OfficeControlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)Director of Bureau: Secretary for Innovation and TechnologyQuestion:

1. Regarding the cases handled by the 24-hour one-stop service "1823", please tabulate the respective numbers and percentage shares of the departments involved.
2. Please provide information on the staff establishment and salary expenditure of the 24-hour one-stop service "1823".

Asked by: Hon CHEUNG Chiu-hung, Fernando (LegCo internal reference no.: 1418)Reply:

The information required is provided as follows:

- (1) In 2018, 1823 handled a total of 2.39 million cases, including enquiries and complaints, for the departments set out in the table below:

Department	Number of cases (and respective percentage of the total caseload)	
Hong Kong Housing Authority and Housing Department	368 014	15.37%
Labour Department	352 814	14.74%
Transport Department	231 271	9.66%
Working Family and Student Financial Assistance Agency	202 484	8.46%
Food and Environmental Hygiene Department	183 092	7.65%
Rating and Valuation Department	150 724	6.30%

Department	Number of cases (and respective percentage of the total caseload)	
	Hongkong Post	102 512
Companies Registry	92 282	3.85%
Highways Department	72 103	3.01%
Buildings Department	68 692	2.87%
Leisure and Cultural Services Department	50 076	2.09%
Lands Department	50 027	2.09%
Agriculture, Fisheries and Conservation Department	39 951	1.67%
Social Welfare Department	36 747	1.54%
Tobacco Control Office, Department of Health	19 087	0.80%
Drainage Services Department	19 026	0.79%
Electrical and Mechanical Services Department	15 764	0.66%
Office of the Government Chief Information Officer	11 592	0.49%
Land Registry	4 110	0.17%
Architectural Services Department	2 615	0.11%
Civil Engineering and Development Department	1 280	0.05%
Marine Department	991	0.04%
1823 and non-participating departments	318 594	13.31%
Total	2 393 848	100%

- (2) As at the end of February 2019, 1823 had 422 full-time staff (including 416 contract staff and 6 civil servants) and 116 part-time staff. The salary expenditure in 2018-19 was \$136 million.

- End -

CONTROLLING OFFICER'S REPLY

ITB019

(Question Serial No. 2112)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (3) Efficiency Office

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

- (1) The performance target set for the 1823 hotline is that 80% of incoming calls should be answered in 12 seconds. In 2017 and 2018, however, only 71% and 67% of calls were answered within 12 seconds respectively. Not only did it fall short of the target, but the situation also seemed to get worse. What are the reasons? What plans will be made to achieve the 80% target?
- (2) Is there any statistics showing the average time that the 1823 hotline puts the public on hold until the calls finally get through?
- (3) It is stated that the percentages of “callers that have their enquiries addressed at the first time of calling” in both 2017 and 2018 reached 99%. What does “addressed” refer to? If the caller is merely given the general telephone number of the relevant department or put through to other departments, is the enquiry considered already “addressed”?
- (4) Further to the above question, is it possible to provide the percentage of enquiry calls successfully settled after reaching the 1823 hotline, without being transferred to another government department?
- (5) What are the specific idea and plan for the “design and delivery of more integrated, citizen centric services in 1823” under Matters Requiring Special Attention in 2019-20?

Asked by: Hon CHEUNG Kwok-kwan (LegCo internal reference no.: 41)

Reply:

The required information is provided as follows:

- (1) The waiting time for a call before it can be answered is one of the 3 indicators used to measure the performance of 1823. It is influenced by the call volume, overall call handling time as well as staffing levels. The main reasons for 1823 not meeting the target of having 80% of calls answered within 12 seconds were surges in call volume on particular days because of individual issues/incidents; and continued tight manpower situation due to a strong labour market and high staff wastage rate, hence longer training time for newly recruited staff. Examples of issues/incidents affecting call volumes included surge in enquiries about the new Companies Ordinance as well as the sale of flats under the Home Ownership Scheme and the Green Form Subsidised Home Ownership Scheme; and numerous calls reporting urgent issues (such as fallen trees) during the attack of super typhoon Mangkhut. The call volume on such a day could be 40% to 50% higher than the normal daily volume, and the call volume of the affected month could be 20% to 30% higher than the normal monthly volume. As a result, the staff of 1823 were unable to answer some calls from the public promptly. In addition, the number of written contacts from the public and departments, which 1823 was required to handle, also soared from 1.31 million in 2016 to 1.64 million in 2018.

Regarding the other 2 performance indicators, the rating for customer satisfaction was 4.5 (target set at 4.0) and the percentage of callers having their enquiries addressed at the first time of calling was 99% (target set at 95%). Their performance both exceeded the targets.

To improve the call response time, 1823 will launch more recruitment exercises to increase manpower; strengthen its training capacity; and continue to enhance its business process and knowledge base for higher work efficiency in the coming year. 1823 will also work with departments to make their forms and information more user-friendly so as to reduce the number of unnecessary enquiries and complaints. Furthermore, 1823 will pilot the use of chatbot to handle public enquiries for more effective use of limited manpower resources to better serve the public.

- (2) In 2018, the average time that the 1823 hotline put the public on hold until the calls finally got through was 29 seconds.
- (3)&(4) Currently, 1823 handles public service enquiries on behalf of 22 participating departments. Making use of the knowledge base provided by these departments, 1823 staff directly answer enquiries about public services such as the application procedure and criteria for public housing units, the compensation requirements for terminating employment contracts under the Employment Ordinance, and the application procedure for school textbook assistance. If the staff member of 1823 can address the enquiry instantly during that call, the case will be counted towards the percentage of “callers that have their enquiries addressed at the first time of calling”. If an enquiry cannot be addressed with the information provided in the knowledge base, or if the caller requests for direct contact with the participating department concerned, the staff member of 1823 will suggest referring the case to the department concerned for follow-up action, and the case will not be classified as “callers that have their enquiries

addressed at the first time of calling”. When non-participating departments are involved in the enquiries received, as 1823 does not have the knowledge base of these departments, the callers will normally request 1823 to provide the proper means of contact of the departments concerned for direct enquiry. Such cases will also be counted towards the percentage of “callers that have their enquiries addressed at the first time of calling”. Nevertheless, we do not have the statistics on these cases.

- (5) 1823 will pursue various initiatives to deliver more integrated, citizen centric services for the public. In 2019, we will revamp the 1823 website to enhance user experience. The webpage’s layout, graphics and content will automatically adjust to the screen size, resolution and orientation of the users’ devices such as mobile phones and tablets. Moreover, 1823 will provide dynamic electronic forms on frequent enquiry and complaint topics to facilitate completion by members of the public as well as prompt follow-ups by the relevant departments. We will also review and re-organise the frequently asked questions available on the website so that the public can obtain the required information in a more efficient and effective manner. In addition, 1823 will pilot the use of chatbot in late 2019 to answer simple public enquiries by using artificial intelligence.

- End -

CONTROLLING OFFICER'S REPLY

ITB020

(Question Serial No. 5399)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Hong Kong-Shenzhen Innovation and Technology Park (the Park) to be constructed by the Government at the Lok Ma Chau Loop will become the base for the future development of innovation and technology in Hong Kong. The Government earmarked \$20 billion in the 2018-19 Budget for the first stage construction works of the Park, with the target of making the first batch of land available by 2021 for Phase 1 superstructure development.

This Committee requests the Government to answer the following questions:

1. What are the details of the site selection, superficial area, floor area, layout plan and contractors of the Park?
2. What are the cost details of the Park, including land purchase, site formation and construction cost?
3. Is the Park a joint project by the Mainland and Hong Kong? If yes, what are the details?

Asked by: Hon CHU Hoi-dick (LegCo internal reference no.: 503)

Reply:

In consultation with the Development Bureau, the requested information is provided as follows:

- (1) and (2) The Hong Kong-Shenzhen Innovation and Technology Park (the Park) is located at the Lok Ma Chau Loop (the Loop), occupying an area of about 87 hectares. According to the approved Lok Ma Chau Loop Outline Zoning Plan, the Park will provide a maximum total gross floor area of 1.2 million square metres. The Government of the Hong Kong Special Administrative Region (HKSAR) will be responsible for the construction of infrastructure within the Loop, including site

formation and infrastructural facilities, and will grant the formed land within the Loop to the Hong Kong-Shenzhen Innovation and Technology Park Limited (HSITPL) for superstructure construction. The HSITPL is a wholly-owned subsidiary company of the Hong Kong Science and Technology Parks Corporation (HKSTPC) and is required to regularly report to the Board of Directors of the HKSTPC on its development direction, progress and financial position, etc.

In May 2018, the Government obtained the approval of the Finance Committee of the Legislative Council for a funding of \$785.9 million for the Advance Works and the detailed design and site investigation of Main Works Package 1 of the Loop. The respective approved project estimates for the construction of the Advance Works and the detailed design and site investigation of Main Works Package 1 are \$517.6 million and \$268.3 million in money-of-the-day prices, while the construction costs of Main Works Package 1 will be confirmed in the relevant design and site investigation. The contractor currently undertaking the Advance Works of the development of Loop is Sang Hing – Kuly Joint Venture.

Furthermore, the HSITPL is conducting the Master Planning Study and the Business Model and Business Planning Study. The 2 studies are expected to be completed in the first half of 2019. We will make reference to the findings of the studies in formulating the development strategy and planning of the Park.

The development of the Lok Ma Chau Loop is a large-scale and long-term project. The Government has set aside \$20 billion to support the first phase development of the Park, including site formation, superstructure and initial operation. We will make reference to the results of HSITPL's studies and further estimate of the cost required for developing the Loop.

- (3) The Park is located within the administrative boundary of the HKSAR. However, prior to the promulgation of the Order No. 221 of the State Council of the People's Republic of China promulgated on 1 July 1997, the Loop was within the administrative boundary of Shenzhen. This historical fact should be respected. Pursuant to the Memorandum of Understanding on Jointly Developing the Lok Ma Chau Loop by Hong Kong and Shenzhen, Hong Kong and Shenzhen reached a consensus on land ownership, and agreed, on the premise of achieving complementarity between both sides, to jointly develop the Loop in accordance with the "One Country, Two Systems" principle and the Basic Law, and in compliance with 3 basic principles, i.e. applying the laws and land administration system of the HKSAR; the non-profit making principle; and the friendly negotiation principle. Hong Kong has all along been maintaining close liaison with Shenzhen regarding the development of the Park. We have been discussing and negotiating major issues with Shenzhen through the Joint Task Force on the Development of the Hong Kong-Shenzhen Innovation and Technology Park in the Loop (the Joint Task Force). So far, the Joint Task Force has held 4 meetings. In addition, among the 10 directors of the HSITPL, 4 (including the Chairman) were nominated by the Hong Kong side, 3 by the Shenzhen side and 3 jointly nominated by both sides. All directors have

actively participated in the Master Planning Study and the Business Model and Business Planning Study being conducted by the HSITPL and offered their view.

- End -

CONTROLLING OFFICER'S REPLY

ITB021

(Question Serial No. 5400)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Some members of the community have criticised that the \$20 billion spent by the Government on the construction of the Hong Kong-Shenzhen Innovation and Technology Park (the Park) in the Lok Ma Chau Loop is a waste of public funds. This Committee requests the Government to answer the following questions: Did the Government conduct any district visit to consult the public, district councils (DCs) and the Legislative Council (LegCo) on the Park last year? If yes, what are the details? If not, what are the reasons and will district visits be conducted to consult the public, DCs and LegCo on the Park as soon as possible in 2019?

Asked by: Hon CHU Hoi-dick (LegCo internal reference no.: 504)

Reply:

In January 2018, the Government consulted the relevant rural committees and the District Councils as well as the Panel on Commerce and Industry (the Panel) of the Legislative Council on the construction of the Advance Works and the detailed design and site investigation of Main Works Package 1 of the development of Lok Ma Chau Loop, which was submitted to the Public Works Subcommittee for deliberation in April 2018. The concerned funding proposal was approved by the Finance Committee in May 2018. In briefing the Panel on the policy initiatives of the Innovation and Technology Bureau as stated in the 2018 Policy Address in October 2018, we also provided update on the latest development of the Hong Kong-Shenzhen Innovation and Technology Park (the Park).

The development of the Park in Lok Ma Chau Loop is a large-scale and long-term project. We will conduct timely consultation and listen to views from various sectors having regard to the development progress of the Park.

- End -

CONTROLLING OFFICER'S REPLY

ITB022

(Question Serial No. 5401)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title):

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Some members of the public criticised that the spending of \$20 billion on the development of the Hong Kong-Shenzhen Innovation and Technology Park (the Park) in the Lok Ma Chau Loop was a waste of public money. In this connection, this Committee requests the Government to answer the following questions:

1. How will the Park facilitate the sustainable development of innovation and technology in Hong Kong?
2. Allocating additional resources to ensure timely development of the Park as a world-class research and development hub implies that the project is expected to incur cost overruns. If yes, what are the details?

Asked by: Hon CHU Hoi-dick (LegCo internal reference no.: 505)

Reply:

The information required is consolidated and provided as follows:

The Hong Kong-Shenzhen Innovation and Technology Park (the Park) will be the largest innovation and technology (I&T) platform ever established in the history of Hong Kong. With I&T as the main focus, a key base for cooperation in I&T research, as well as relevant higher education, cultural and creative and other complementary facilities will be set up in the Park, so as to attract top-tier enterprises, research and development institutions and higher education institutions in the Mainland and overseas to establish their presence there. The Park will not only introduce more I&T talent from the Mainland and overseas to Hong Kong, but will also attract more external capital, which can inject new impetus into the development of I&T in Hong Kong, and bring about new business opportunities and

contribute to the growth of Hong Kong's economic activities. In the long run, attracting I&T enterprises, universities or scientific research institutions from the Mainland and overseas to establish their presence in Hong Kong and connecting upstream and midstream research to downstream market will further enhance the collaboration among the industry, academic and research sectors, provide youngsters with more opportunities and facilitate the sustainable development of I&T in Hong Kong.

The total expenditure on the development of the Lok Ma Chau Loop will depend on various factors, such as the specific planning of the Park, user requirements, site formation and detailed design of infrastructure, etc. Since the Loop is a siteable undeveloped land without any infrastructure, its development into the Park is a large-scale and long-term project. The \$20 billion set aside by the Government is only for the support of the first phase development of the Park for, including site formation, provision of infrastructure, construction of superstructure and initial operation. We expect the funding required for the Loop development as a whole will far exceed \$20 billion. The Hong Kong-Shenzhen Innovation and Technology Park Limited (HSITPL) is conducting a Master Planning Study and a Business Model and Business Planning Study. The two studies are expected to be completed in the first half of 2019. The Government will make reference to the findings of HSITPL's studies and developing the Loop.

- End -

CONTROLLING OFFICER'S REPLY

ITB023

(Question Serial No. 0570)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Under this Programme, one of the main responsibilities of the Innovation and Technology Bureau is to promote re-industrialisation through the development of smart production and high value-added industries. Please inform this Committee of the effectiveness of the work done in this regard in 2018-19 and the expenditure incurred. In 2019-20, how will the Bureau promote re-industrialisation in Hong Kong through the development of smart production and high value-added industries? Please advise on the specific measures to be taken, the expenditure to be incurred and the anticipated effectiveness in the coming year.

Asked by: Hon CHUNG Kwok-pan (LegCo internal reference no.: 42)

Reply:

In recent years, the Government has been actively promoting “re-industrialisation” and developing advanced manufacturing industries that are based on new technologies and smart production, so as to identify new growth point for Hong Kong’s economic development. We will continue to support the development of “re-industrialisation” from the perspectives of infrastructure, financial support, technological support and talent.

In respect of infrastructure, the Hong Kong Science and Technology Parks Corporation (“HKSTPC”) is developing a Data Technology Hub and an Advanced Manufacturing Centre (“AMC”) in the Tseung Kwan O Industrial Estate. The Finance Committee of the Legislative Council (“LegCo”) approved in May 2016 an injection of \$6.598 billion and a government loan of \$1.65 billion to the HKSTPC for the development of these 2 projects. The 2 projects are expected to be completed in 2020 and 2022 respectively. The AMC will foster smart production and advanced assembly of the high value-added manufacturing industries and cover extended activities such as research and development (“R&D”), logistics support, prototyping and design etc. Moreover, a factory in the Tai Po Industrial

Estate was refurbished into the Precision Manufacturing Centre (“PMC”) in 2017 by the HKSTPC, with a view to fostering high technology smart production. The project costs were met by HKSTPC with its internal resources. The four-storey PMC has been fully occupied by tenant enterprises engaging in precise engineering and assembly, new material manufacturing and environmentally-friendly yarn production, tooling and advanced indoor hydroponic industries etc.

In respect of financial support, the Government, through the Innovation and Technology Fund, supports local R&D work by financing projects that can contribute to technology upgrading and promotion of innovation, thereby promoting “re-industrialisation”. Related funding programmes include the Innovation and Technology Support Programme, the Partnership Research Programme and the Enterprise Support Scheme etc. Furthermore, the HKSTPC will allocate part of the Government’s \$10 billion allocation last year to offer incentives for advanced manufacturers to set up operations in the industrial estates. The HKSTPC is currently working out the relevant details and will decide on the form of support as well as the amounts having regard to the size and needs of enterprises.

In respect of technological support, the Hong Kong Productivity Council (“HKPC”) has been dedicating efforts to promote “re-industrialisation”, and assisting enterprises to move towards high value-added production and gradually upgrade to “Industry 4.0”. Relevant work of the HKPC in 2018-19 includes: setting up jointly with the Fraunhofer Institute for Production Technology of Germany, the Invention Centre with the introduction of Industry 4.0-related technologies to accelerate the adoption of innovative industrial technologies by the industry and to promote the development of smart industry; implementing the Industry 4.0 Upgrade and Recognition Programme to provide enterprises with professional training on “Industry 4.0” recognised by the Fraunhofer Institute for Production Technology of Germany so as to help the industry gradually upgrade its operation towards “Industry 4.0”; and operating the Inno Space, the Smart Industry One and other technology support centres.

In respect of training of talent, we rolled out the Re-industrialisation and Technology Training Programme in August 2018 to subsidise local companies on a 2:1 matching basis to train their existing staff in technologies, especially those related to “Industry 4.0”. As at the end of January 2019, the Programme has approved 175 applications for training grant, subsidising the technology training of 349 existing staff members of local enterprises with a total funding amount of about \$2.35 million.

To expedite the development of “re-industrialisation”, it was announced in the 2018 Policy Address that an additional allocation of \$2 billion would be provided for the HKSTPC to identify suitable land in industrial estates for building manufacturing facilities required by the dedicated manufacturing sector in order to support more manufacturers in launching manufacturing operations in Hong Kong. We will also establish a \$2 billion Re-industrialisation Funding Scheme to subsidise manufacturers, on a matching basis, to set up smart production lines in Hong Kong. We are now working out the operational details of the Scheme, such as eligibility criteria as well as the scope, form and amount of funding, and consulting the industry on the details. We plan to consult the Panel on Commerce and Industry of the LegCo on these 2 new measures in May 2019 before seeking funding approval from the Finance Committee of the LegCo, with a view to implementing them in the second half of the year.

Furthermore, the 5 R&D Centres established by the Government (i.e. the Hong Kong Applied Science and Technology Research Institute, the Logistics and Supply Chain MultiTech R&D Centre, the Nano and Advanced Materials Institute, the Hong Kong Research Institute of Textiles and Apparel, and the Automotive Parts and Accessory Systems R&D Centre) have also been actively engaging in R&D related to “re-industrialisation” in recent years, covering various areas such as big data, Internet of Things, robotics, new materials, smart mobility and environmental technology etc., thereby assisting the industry to ride the trend and capture business opportunities.

We will closely monitor the progress and effectiveness of the various measures mentioned above.

- End -

CONTROLLING OFFICER'S REPLY

ITB024

(Question Serial No. 3276)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (3) Efficiency Office

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Under this programme, one of the matters requiring special attention of the Innovation and Technology Bureau is to enhance the work of the Business Facilitation Team to improve regulatory efficiency, business processes and use of technology by the Government to further upgrade the environment for doing business in Hong Kong. Please inform this Committee of the expenditures and effectiveness of the related work over the past year; the specific plans of the Bureau for enhancing the work of the Business Facilitation Team in 2019-20; and the estimated expenditures.

Asked by: Hon CHUNG Kwok-pan (LegCo internal reference no.: 53)

Reply:

The Business Facilitation Team under the Efficiency Office (EffO) is responsible for co-ordinating and overseeing the efforts of the Government in business facilitation. It also provides secretarial support for the Business Facilitation Advisory Committee as well as its task forces and Business Liaison Groups. Last year, the number of new business facilitation measures launched by various bureaux and departments was more than 130, much higher than the 70 measures rolled out in the previous year. These measures include streamlining licensing procedures, rolling out more electronic licensing services, extending the validity of business licences, etc. with a view to reducing the compliance costs of various industries and enhancing Hong Kong's competitiveness. The Government's business facilitation work has won recognition worldwide. According to the Doing Business 2019 Report released by the World Bank, Hong Kong is ranked the world's fourth easiest place to do business, up one place from last year. Currently, there are a total of 12 civil service posts and 3 Non-Civil Service Contract Staff positions in the Business Facilitation Team, and their total emoluments were about \$15 million in 2018-19.

In the coming year, the EffO will, building on the current solid foundation, continue to collaborate with the business sector, oversee and co-ordinate government departments' efforts in exploring ways to optimise the existing regulatory regimes, and make use of information technology to provide more electronic licensing services, thereby creating a more business-friendly environment in Hong Kong. The EffO will take forward all the work concerned using existing manpower and resources.

- End -

CONTROLLING OFFICER'S REPLY

ITB025

(Question Serial No. 5180)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (3) Efficiency Office

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

- (1) It is stated in Programme (3) that the Efficiency Office oversees the operation of the 1823 contact centre. Please tabulate the respective number and percentage share of cases concerning each department handled by the “1823” 24-hour one-stop service in 2018.
- (2) According to the Government’s reply under Serial No. ITB013 of last year’s Budget, 1823 handled a total of 2.42 million cases involving various departments in 2017. In terms of the number of cases involved, the top two departments were the Labour Department and the Hong Kong Housing Authority and Housing Department (accounting for 397 972 and 366 041 cases respectively). Has the Government compiled statistics on the main subject matters of the enquiries and complaints made by the general public regarding the two departments? If yes, what are the details? If no, what are the reasons?
- (3) Please set out the staff establishment and salary expenditure of the “1823” 24-hour one-stop service.
- (4) Please set out the staff establishment and salary expenditure involved for handling cases relating to the top two departments in 2018.

Asked by: Hon FAN Kwok-wai, Gary (LegCo internal reference no.: 115)

Reply:

The information required is provided as follows:

- (1) In 2018, 1823 handled a total of 2.39 million cases, including enquiries and complaints, for the departments set out in the table below:

Department	Number of Cases (and respective percentage share of the total caseload)	
Hong Kong Housing Authority and Housing Department	368 014	15.37%
Labour Department	352 814	14.74%
Transport Department	231 271	9.66%
Working Family and Student Financial Assistance Agency	202 484	8.46%
Food and Environmental Hygiene Department	183 092	7.65%
Rating and Valuation Department	150 724	6.30%
Hongkong Post	102 512	4.28%
Companies Registry	92 282	3.85%
Highways Department	72 103	3.01%
Buildings Department	68 692	2.87%
Leisure and Cultural Services Department	50 076	2.09%
Lands Department	50 027	2.09%
Agriculture, Fisheries and Conservation Department	39 951	1.67%
Social Welfare Department	36 747	1.54%
Tobacco Control Office, Department of Health	19 087	0.80%
Drainage Services Department	19 026	0.79%
Electrical and Mechanical Services Department	15 764	0.66%
Office of the Government Chief Information Officer	11 592	0.49%
Land Registry	4 110	0.17%
Architectural Services Department	2 615	0.11%
Civil Engineering and Development Department	1 280	0.05%
Marine Department	991	0.04%
1823 and non-participating departments	318 594	13.31%
Total	2 393 848	100 %

- (2) Regarding the Labour Department as well as the Hong Kong Housing Authority and Housing Department, the main subject matters of the enquiries and complaints made by the general public in 2017 are as follows:

Labour Department			
Enquiries	Number of Cases	Complaints (including requests for services)	Number of Cases
Termination of employment contract	150 603	Occupational safety and occupational health services	559

Labour Department			
Enquiries	Number of Cases	Complaints (including requests for services)	Number of Cases
Rest day, statutory holiday and paid annual leave	46 162	Labour Department's staff and services	251
Sickness allowance	37 663	Employment services	80
Employment of foreign domestic helpers	30 284	Employees' work injury compensation	22
Employees' work injury compensation	29 848	Wages and end of year payment	20
Others	102 429	Others	51
Total	396 989	Total	983

Hong Kong Housing Authority and Housing Department			
Enquiries	Number of Cases	Complaints (including requests for services)	Number of Cases
Public rental housing (PRH) application	176 470	Property management	4 715
Sale of flats under the Home Ownership Scheme	44 010	Housing Department's staff and services	4 258
PRH tenancy matters	32 893	Tree-related matters	570
PRH flats maintenance	21 227	Building control matters	461
Express Flat Allocation Scheme	18 262	PRH tenancy matters	326
Others	61 930	Others	919
Total	354 792	Total	11 249

- (3) As at the end of February 2019, 1823 had 422 full-time staff (including 416 contract staff and 6 civil servants) and 116 part-time staff. The salary expenditure in 2018-19 was \$136 million.
- (4) In terms of the number of cases handled by 1823, the top two departments involved in 2018 were the Hong Kong Housing Authority and Housing Department as well as the Labour Department. About 90 frontline staff were deployed for handling these cases, and the salary expenditure concerned in 2018 was around \$20 million.

- End -

CONTROLLING OFFICER'S REPLY

ITB026

(Question Serial No. 5698)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Will the Bureau conduct regular reviews or assessments of the contents and effectiveness of opening up data by bureaux? If yes, what is the timetable? If not, what are the reasons?

Asked by: Hon IP Kin-yuen (LegCo internal reference no.: 218)

Reply:

Under the new open data policy, all Government bureaux and departments (B/Ds) are required to formulate and publish their annual open data plans on their departmental web pages. The first annual open data plans of B/Ds were already published in late 2018. About 700 new datasets are expected to be opened up in 2019. The Office of the Government Chief Information Officer (OGCIO) will regularly review and follow up with B/Ds on the progress of opening up their data, and will provide advice and technical support. Relevant B/Ds opened up a total of 54 new datasets in the first 2 months of 2019 as scheduled.

OGCIO will closely keep in view the implementation of the new policy and follow up with relevant B/Ds in a timely manner, with a view to enhancing the progress of opening up data as well as the data categories.

- End -

CONTROLLING OFFICER'S REPLY

ITB027

(Question Serial No. 0913)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Financial Secretary announced in the 2018-2019 Budget an allocation of a total of HK\$100 million to Cyberport to promote the development of local e-sports, with half of the allocation used for developing the Cyberport Arcade into a local e-sports and digital entertainment node, and another half for supporting the development of e-sports technology and the industry as well as nurturing talent. Please inform this Committee of:

- (1) the details of the allocation for 2018-19 and the estimated expenditure;
- (2) specific facilitations for supporting the development of e-sports technology and the industry as well as nurturing talent and the number of talent nurtured; and
- (3) whether Hong Kong will organise large-scale international e-sports competitions in 2019-20; if yes, the number of events and scale of the competitions; if no, the reasons.

Asked by: Hon IP LAU Suk-ye, Regina (LegCo internal reference no.: 19)

Reply:

The information required is provided below:

- (1) The Government injected \$100 million into Cyberport in August 2018 to promote the development of the e-sports industry, of which \$50 million would be used to set up a dedicated e-sports competition venue in the Cyberport Arcade for the industry to host e-sports competitions, activities and training. The works are expected to be completed by mid-2019. The remaining \$50 million would be used to support the development of the e-sports industry, including organising local and regional competitions and major events, training programmes and promotional activities.

- (2) Cyberport will introduce 2 support schemes in the first half of this year, including the E-sports Industry Facilitation Support Scheme and the E-sports Internship Scheme. The E-sports Industry Facilitation Support Scheme supports the industry and organisations in organising and participating in local and overseas e-sports competitions and activities conducive to the development of the industry. The E-sports Internship Scheme provides employers in the industry with a salary subsidy for interns and assists in talent matching. There will be a total of 20 internship placements each year, and each successful applicant may engage up to 3 interns. The maximum subsidy for each intern is \$7,500 per month.

Moreover, Cyberport specifically sets aside quotas in the areas of e-sports/games/digital entertainment, etc under its incubation programme to strengthen the nurturing of start-ups in the e-sports and relevant industries. Over 20 start-ups in these areas were admitted to the programme last year.

In addition, Cyberport collaborated with the School of Professional and Continuing Education of the University of Hong Kong (HKU SPACE) in organising the first part-time Diploma Programme in E-sports Science in Hong Kong in July 2018, which is pitched at Level 3 of the Qualifications Framework. It was well-received with an enrolment of around 100 students in the two rounds of the Programme. HKU SPACE will offer a full-time Higher Diploma Programme in eSports in September 2019. The Open University of Hong Kong will also offer a Bachelor of Business Administration with Honours in Sports and eSports Management in September 2019.

- (3) Cyberport will provide a venue to facilitate organisers in hosting e-sports competitions. It is expected that 6 to 8 large-scale e-sports competitions will be held each year. Cyberport will reach out to organisations interested in organising major international or regional competitions to explore the possibility of hosting the competitions at the e-sports competition venue in Cyberport. Specific details will be announced in due course.

- End -

CONTROLLING OFFICER'S REPLY

ITB028

(Question Serial No. 0915)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Will the Government inform this Committee of the following:

- (1) the estimated expenditure of Cyberport's "easy landing" programme in the 2019/20 financial year; and
- (2) the number of start-ups which the scheme benefited in 2018-19 and the number of start-ups which the scheme is expected to benefit in the 2019/20 financial year.

Asked by: Hon IP LAU Suk-ye, Regina (LegCo internal reference no.: 23)

Reply:

The required information is as follows:

- (1) Cyberport launched the Easy Landing Scheme (the Scheme) in the fourth quarter of 2018 to attract multi-national corporations to set up offices and research and development units in Cyberport through the provision of rental concessions. The target companies of the Scheme include overseas and Mainland leading internet enterprises and financial technology (FinTech) companies, well-known brands in the market, and well-established companies with disruptive technology or unique business model, etc. Participating companies of the Scheme are expected to contribute to the Cyberport ecosystem by, for example, sharing knowledge and experience with other tenants, engaging in business and product development and investment. Cyberport will provide rental concessions of \$1 million per annum or 50% rental discount (whichever is less) for a period of up to 5 years, taking into consideration the participating company's actual participation in collaboration with Cyberport.

As the first company participating in the Scheme, ZhongAn Technologies International Group Limited has leased an office space of about 17 000 square feet to expand its business in online insurance and other Fintech areas. The rental concessions will be provided to the company by phase depending on its participation and collaboration in Cyberport.

- (2) Cyberport expects that 2 to 3 companies will participate in the Scheme in the 2019-20 financial year. The expenditure involved will depend on the terms of individual tenancy agreements.

- End -

CONTROLLING OFFICER'S REPLY

ITB029

(Question Serial No. 5634)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

1. What are the talent visa systems and tax concessions implemented in the Lok Ma Chau Loop to attract Mainland and foreign enterprises and talents?
2. What are the respective numbers of Mainland innovation and technology talents and enterprises in Hong Kong in each of the past 5 years?
3. It is stated in the Budget that \$20 billion is earmarked for the development of the Lok Ma Chau Loop. Please give a breakdown of the estimated expenditure.
4. For the past 5 years, what are the respective numbers of people who have stayed in Hong Kong for (i) less than 2 years; (ii) 2 to 4 years; (iii) 4 to 7 years; and (iv) over 7 years under the Admission of Mainland Professionals Scheme?

Asked by: Hon KWOK Ka-ki (LegCo internal reference no.: 173)

Reply:

After consulting the relevant policy bureaux, the information sought is provided below:

(1) The Hong Kong-Shenzhen Innovation and Technology Park (the Park) in the Lok Ma Chau Loop (the Loop) will be developed as a key base for co-operation in scientific research through liaising with top-tier enterprises, research and development institutions as well as higher education institutions in the Mainland and overseas to facilitate exchange and co-operation with quality research talent from all over the world. The Park is located in the Hong Kong Special Administrative Region (SAR). The measures taken by the SAR Government to attract technology talent will also apply to institutions and enterprises which will set up offices in the Park in the future. In addition, according to the "Memorandum of

Understanding on Jointly Developing the Lok Ma Chau Loop” signed by the SAR Government and the Shenzhen Municipal People’s Government, the Hong Kong side has agreed to take effective measures to facilitate the exit and entry of mutually approved personnel of the Shenzhen side. Details of the arrangements will be studied and discussed by the relevant departments of the two governments through the “Joint Task Force on the Development of the Hong Kong-Shenzhen Innovation and Technology Park in the Loop”. There is no specific idea at this stage.

(2) We do not maintain statistics on Mainland innovation and technology talent and enterprises in Hong Kong.

(3) The Government has set aside \$20 billion to support the first phase development of the Park in the Loop, including site formation, provision of infrastructure, superstructure construction and initial operation. As the Loop is a sizeable undeveloped land without any infrastructure, its development into the Park is a large-scale and long-term project. The \$20 billion set aside by the Government only supports the first phase development of the Park. The total expenditure on the development of the Loop depends on various factors, such as specific planning of the Park, user requirements, site formation and detailed design of infrastructure, etc. We expect the funding required for the Loop development as a whole will far exceed \$20 billion. The Hong Kong-Shenzhen Innovation and Technology Park Limited is conducting a Master Planning Study and a Business Model and Business Planning Study for the Park’s development, which are expected to be completed in the first half of 2019. We will make reference to the findings of the studies and further estimate the cost required for developing the Loop.

(4) According to the information provided by the Immigration Department (ImmD), the breakdowns of persons admitted under the Admission Scheme for Mainland Talents and Professionals to work in Hong Kong with valid limit of stay by duration of stay in Hong Kong are as follows:

	Duration of Stay in Hong Kong			
	Less than 2 years	2-4 years	4-7 years	More than 7 years
As at 31.12.2015	7 161	3 881	3 745	1 447
As at 31.12.2016	7 660	3 992	4 482	1 928
As at 31.12.2017	8 542	4 497	4 597	2 714
As at 31.12.2018	9 925	4 706	4 597	3 295

Note: The above figures exclude those who have obtained the right of abode in Hong Kong.

The ImmD does not maintain the relevant statistics for 2014 or before.

- End -

CONTROLLING OFFICER'S REPLY

ITB030

(Question Serial No. 4460)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: Not specified

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the use of social networks, please advise this Committee on:

- (1) the expenditure and staff establishment involved for publicity efforts made via social networks by the Innovation and Technology Bureau in the past 3 years; and
- (2) the criteria adopted by the Innovation and Technology Bureau in assessing the effectiveness of these publicity efforts and the appropriateness of the use of the funds concerned.

Asked by: Hon KWONG Chun-yu (LegCo internal reference no.: 91)

Reply:

- (1) The Facebook of the Innovation and Technology Bureau is mainly managed with existing manpower and no additional resources are involved.
- (2) We have not set a unified assessment method for the effectiveness of relevant work. Generally, we will make reference to such data as the number of hit counts, visits and "Likes", as well as the responses of relevant activities so as to assess the effectiveness of such work.

- End -

CONTROLLING OFFICER'S REPLY

ITB031

(Question Serial No. 0766)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Compared to 2018-19, the estimate under Programme (2) Innovation and Technology has increased by \$295.8 million to 202%. The Bureau has stated that the substantial increase in expenditure is related to the increased cash flow requirement for non-recurrent and capital items. What are the details of and expenditures for the relevant items? What are the expenditure for and functions of the two additional posts?

Asked by: Hon LAU Ip-keung, Kenneth (LegCo internal reference no.: 6)

Reply:

The estimated expenditure under Programme (2) of the Innovation and Technology Bureau (ITB) for 2019-20 is \$295.8 million higher than the revised estimate for 2018-19. The main reasons include:

- (a) The increased cash flow of about \$142 million for the TechConnect (block vote);
- (b) The increased cash flow of \$125 million for the Innovation and Technology Fund for Better Living; and
- (c) Provision of about \$29 million for the salaries of two new posts and filling of vacancies and the general departmental expenses. The two new posts are one Analyst/Programmer I and one Assistant Clerical Officer. Their main function is to enhance administrative support for the ITB. The relevant salaries and related expenses are about \$1.17 million.

- End -

CONTROLLING OFFICER'S REPLY

ITB032

(Question Serial No. 2003)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Provision for 2019-20 is \$295.8 million (202.0%) higher than the revised estimate for 2018-19. This is mainly due to the increased cash flow requirement for capital and non-recurrent items, an increase of 2 posts and increased provision for salaries and general departmental expenses. Please advise on the actual allocation of the above expenditure, the establishment and posts, the remuneration and operational expenditure and the details of the work involved.

Asked by: Hon LIAO Cheung-kong, Martin (LegCo internal reference no.: 36)

Reply:

The estimated expenditure under Programme (2) of the Innovation and Technology Bureau (ITB) for 2019-20 is \$295.8 million higher than the revised estimate for 2018-19. The main reasons include:

- (a) The increased cash flow of about \$142 million for the TechConnect (block vote);
- (b) The increased cash flow of \$125 million for the Innovation and Technology Fund for Better Living; and
- (c) Provision of about \$29 million for the salaries of two new posts and filling of vacancies and the general departmental expenses. The two new posts are one Analyst/Programmer I and one Assistant Clerical Officer. Their main function is to enhance administrative support for the ITB. The relevant salaries and related expenses are about \$1.17 million.

- End -

CONTROLLING OFFICER'S REPLY

ITB033

(Question Serial No. 2004)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (3) Efficiency Office

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Under Matters Requiring Special Attention in 2019-20, it is mentioned that the Efficiency Office will work with the Social Innovation and Entrepreneurship Development Fund Task Force to engage a new batch of intermediaries to run programmes in different priority areas of the Fund's work, engage an intermediary to develop and operate a gerontechnology platform and consider pilot projects for new funding mechanisms for social ventures. What are the respective operational expenses and staffing arrangements involved, and the factors to be taken account of when screening intermediaries?

Asked by: Hon LIAO Cheung-kong, Martin (LegCo internal reference no.: 37)

Reply:

The Social Innovation and Entrepreneurship Development Fund (SIE Fund) was established to alleviate poverty and social exclusion, and facilitate social inclusion in Hong Kong by promoting social innovation and nurturing social entrepreneurship. In 2019-20, the SIE Fund will focus on 3 key areas of work as outlined below.

Engaging a new batch of intermediaries

The SIE Fund has engaged intermediaries to take forward initiatives under Innovative Programmes and Capacity Building since 2015. Upon the near-completion of service by the first batch of intermediaries, the Fund plans to engage a new batch of intermediaries in 2019 to further take forward its work under its 3 priority areas of work, namely Innovative Programmes, Capacity Building and Research. In January 2019, the Fund issued an open invitation to solicit proposals from parties interested in taking up the role of intermediaries for the first priority area. Major criteria for selecting the intermediaries include:

- the vision, objectives and expected impact of the proposal;
- the relevant capability and experience of the proponent organisation and project team;

- the proposed design, management, support services, marketing and promotion, and performance management;
- the proposed implementation/execution details, work plan and corporate governance; and
- the cost-effectiveness of the proposal.

As regards the other 2 priority areas (i.e. Capacity Building and Research), the Fund plans to issue similar invitations in mid-2019.

Establishing a gerontechnology platform

In view of the challenges arising from an ageing population and the development potential of gerontechnology, the SIE Fund plans to engage an intermediary in 2019 to develop and operate a gerontechnology platform that will link up different stakeholders. Apart from linking up stakeholders on the supply side to promote cross-sector collaboration, the platform will connect the supply side with the demand side so as to gather the efforts of all sector to facilitate the development of the gerontechnology ecosystem in Hong Kong. To prepare for the establishment of the platform, the Fund had organised a series of stakeholder engagement activities in 2018, attracting more than 140 stakeholders from various sectors to brainstorm and co-create solutions for the platform. Taking due account of the stakeholders' views, the Fund will issue an open invitation in April 2019 to solicit proposals from parties interested in taking up the role of intermediary.

Exploring new funding mechanisms

The SIE Fund currently provides funding for social innovation projects in the form of grants. The Fund is now exploring new funding mechanisms by making use of different financial vehicles to meet the different funding needs of social entrepreneurs and attract more private investments in social innovation projects. To this end, the Fund is actively promoting the pilot development of "Pay-for-Success" (or "Social Impact Bond") model and welcomes proposals of pilot projects from the community. The Fund will also explore the feasibility of other new financial vehicles, including loans, loan guarantee and equity investment.

As at end-February 2019, the SIE Fund has committed around \$150 million to support its work on various fronts. The Fund will deploy the remaining \$350 million to further take forward its work in the future.

The above work will be handled by existing staff of the Efficiency Office and no additional manpower will be involved.

- End -

CONTROLLING OFFICER'S REPLY

ITB034

(Question Serial No. 0202)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Financial Secretary said that \$5.5 billion would be earmarked for the development of Cyberport 5 to attract more quality technology companies and start-ups to set up their offices in Cyberport. In this connection, please advise whether the Innovation and Technology Bureau has reviewed if Cyberport has currently provided sufficient support for the development of information and communications technology industry, including the initiatives to promote e-sports. If yes, what are the details; if no, what are the reasons?

Asked by: Hon LO Wai-kwok (LegCo internal reference no.: 14)

Reply:

With the public mission to promote the development of digital technology in Hong Kong, Cyberport has organised various programmes over the years to support the development of the industry, including nurturing 637 digital technology companies and providing funding for 476 projects under the Cyberport Creative Micro Fund.

In addition, Cyberport established the \$200 million Cyberport Macro Fund (CMF) in 2016 to provide Cyberport start-ups with early-stage funding. So far, the CMF has successfully invested in 8 Cyberport start-ups with a total investment of \$58 million. Cyberport also helps start-ups raise capital and facilitates co-operation among industry practitioners through the Cyberport Investors Network (CIN) launched in 2017. Having more than 100 members to date, which include private equity, venture capital, corporate venture funds, angel funds, family offices, institutional funds, accelerators and personal investors, the CIN has helped Cyberport start-ups raise more than \$200 million so far.

The Government injected \$200 million into Cyberport in 2018 for enhancing its existing measures and introducing new initiatives to further support its start-ups and tenants. The financial subsidy under the Cyberport Incubation Programme has been increased from

\$330,000 to a maximum of \$500,000. Cyberport also launched the Easy Landing Scheme in the fourth quarter of 2018 to attract multi-national corporations to set up offices and research and development units in Cyberport through the provision of rental concessions, so as to further enhance the ecosystem of Cyberport. Moreover, the Overseas/Mainland Market Development Support Scheme has been introduced, under which a financial subsidy of \$200,000 would be provided to start-ups to assist them in conducting market research and promotion, expanding into overseas markets and attracting investors.

In addition, the Government has injected an additional \$100 million into Cyberport to promote the development of the e-sports industry, of which \$50 million would be used to set up a dedicated e-sports venue in the Cyberport Arcade for the industry to host e-sports competitions, activities and training. The works are expected to be completed by mid-2019. The remaining \$50 million would be used to support the development of the e-sports industry, including organising local and regional competitions and major events, training programmes and promotional activities. Cyberport will introduce two support schemes in the first half of this year, including the E-sports Industry Facilitation Support Scheme and the E-sports Internship Scheme. The E-sports Industry Facilitation Support Scheme supports the industry and organisations in organising and participating in local and overseas e-sports competitions and activities conducive to the development of the industry. The E-sports Internship Scheme provides employers in the industry with a salary subsidy for interns and assists in talent matching. There will be a total of 20 internship placements each year, and each successful applicant may engage up to 3 interns. The maximum subsidy for each intern is \$7,500 per month.

Cyberport will regularly review the effectiveness of the various measures, and will enhance the support measures of its public mission programmes and launch new ones as appropriate to keep pace with industry development and meet the needs of the development of Cyberport 5.

- End -

CONTROLLING OFFICER'S REPLY

ITB035

(Question Serial No. 0203)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Financial Secretary set aside \$20 billion last year for the first stage construction works of the Hong Kong-Shenzhen Innovation and Technology Park (the Park) to be built at the Lok Ma Chau Loop. The target is to make the first batch of land available by 2021 for Phase 1 superstructure development. The Financial Secretary also states in this year's Budget that he will allocate additional resources in a timely manner. In this connection, please advise whether the Innovation and Technology Bureau (ITB), which is responsible for taking forward the development of the Park, has discussion on working out overall development strategies and implementation timetable for the Park with local and mainland parties concerned, with details including attracting internationally renowned technology enterprises to the Park, fostering the inflow of technology talent and perfecting the hardware and software technology infrastructure. If yes, what are the details; if no, what are the reasons?

Asked by: Hon LO Wai-kwok (LegCo internal reference no.: 15)

Reply:

In consultation with the Development Bureau, the information required is consolidated and provided as follows:

The Special Administrative Region Government is implementing various planning and infrastructural works in full swing to actively develop the Lok Ma Chau Loop (the Loop) into the Hong Kong-Shenzhen Innovation and Technology Park (the Park). The Government obtained funding approval of about \$780 million from the Legislative Council (LegCo) in May 2018, and commenced the construction of the Advance Works as well as the detailed design and site investigation of Main Works Package 1 in June and September 2018 respectively. Our target is to make the first batch of land parcels available by 2021 for Phase 1 superstructure development. Detailed design and site investigation of Main Works Package 1 are expected to be completed by phases by early 2023. If the above work progresses smoothly, we will seek funding approval from LegCo for the first batch of

Main Works and construction of the first batch of buildings of the Park in a timely manner.

In addition, the Hong Kong-Shenzhen Innovation and Technology Park Limited (HSITPL) is conducting a Master Planning Study and a Business Model and Business Planning Study, which are expected to be completed in the first half of 2019. Upon completion of the studies, we will make reference to the findings and formulate the development strategy and planning of the Park.

We have been maintaining close contact with the Shenzhen side for the development of the Park. Of the 10 directors of the HSITPL's Board of Directors, 4 (including the Chairman) were nominated by the Hong Kong side, 3 by the Shenzhen side, and 3 jointly by both sides. All directors have actively participated in, and provided advice on, the Master Planning Study and the Business Model and Business Planning Study.

In addition, we will continue to conduct discussions and consultations on major issues relating to the development of the Park through the Joint Task Force on the Development of the Hong Kong-Shenzhen Innovation and Technology Park in the Loop, which has held 4 meetings so far.

- End -

CONTROLLING OFFICER'S REPLY

ITB036

(Question Serial No. 0207)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Innovation and Technology Bureau is tasked to support the development of the Guangdong-Hong Kong-Macao Greater Bay Area into an international innovation and technology hub. With the promulgation of the Outline Development Plan for the Guangdong-Hong Kong-Macao Greater Bay Area by our country, will the Bureau formulate a long-term strategy for innovation and technology development in Hong Kong to tie in with international technological developments and the national development plan for the Guangdong-Hong Kong-Macao Bay Area so as to avoid not seeing the wood for the trees, while drawing up more specific measures and allocating complementary resources to expedite the promotion of “the commercialisation of technological achievements, industrialisation of products and internationalisation of industries”. If yes, what are the details; if not, what are the reasons?

Asked by: Hon LO Wai-kwok (LegCo internal reference no.: 3)

Reply:

To promote sustained and diversified socio-economic development, the Hong Kong Special Administrative Region (HKSAR) Government is determined to develop the local innovation and technology (“I&T”) industries, in order to drive the upgrading and transformation of our overall economic structure, thereby enhancing Hong Kong’s competitiveness and improving people’s quality of life. The Innovation and Technology Bureau (“ITB”) is tasked to formulate holistic I&T policies and boost I&T development along the 8 major areas set forth in the Policy Address announced in October 2017. To this end, the ITB implements a series of measures to enhance the local I&T ecosystem, and promotes I&T development in Hong Kong to tie in with international trend of technological developments and our

country's initiatives like the development of the Guangdong-Hong Kong-Macao Greater Bay Area ("Greater Bay Area") into an international I&T hub.

Developing an international I&T hub is one of the work focuses under the Outline Development Plan for the Guangdong-Hong Kong-Macao Greater Bay Area. Hong Kong has strong research and development ("R&D") capabilities and advantages as an international and market-oriented economy, while the Greater Bay Area has a sizable market and capabilities in commercialising R&D results and advanced manufacturing. Hong Kong can pool together innovation resources from the Mainland and across the globe and achieve synergistic development with other cities in the Greater Bay Area with regard to their comparative strengths, thereby developing a comprehensive industry chain for the commercialisation of R&D deliverables. In this regard, the HKSAR Government will take forward a series of initiatives which include establishing international research clusters, pooling together international technology resources, facilitating the flow of R&D elements and developing the Hong Kong-Shenzhen Innovation and Technology Park ("the Park"), etc., in order to strengthen Hong Kong's I&T ecosystem. The Government will also actively facilitate the work of developing the Greater Bay Area into an international I&T hub, providing Hong Kong with a broader arena for I&T development.

The Midstream Research Programme, the Public Sector Trial Scheme and the Technology Start-up Support Scheme for Universities under the Innovation and Technology Fund are all conducive to promoting commercialisation and industrialisation of R&D deliverables. To further promote technology transfer and realisation of R&D results, starting from 2019-20, the funding for the Technology Start-up Support Scheme for Universities and Technology Transfer Offices of dedicated universities will be provided on a recurrent basis with doubled funding ceilings and other enhancement measures. Moreover, we are actively developing the Park in the Lok Ma Chau Loop. The key base for co-operation in scientific research in the Park, coupled with the edge that Shenzhen industries possess, will further facilitate the commercialisation and industrialisation of R&D deliverables.

- End -

CONTROLLING OFFICER'S REPLY

ITB037

(Question Serial No. 0208)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Innovation and Technology Bureau has stated that it will promote the adoption of innovation and technology by bureaux and departments (B/Ds) through the new Smart Government Innovation Lab and the TechConnect (block vote). In this connection, please advise:

1. what are the establishment and estimated expenditure in 2019-2020; and
2. what was the main progress made in encouraging the participation of the industry and in assisting B/Ds in the adoption of innovation and technology through the TechConnect (block vote) in 2018-2019?

Asked by: Hon LO Wai-kwok (LegCo internal reference no.: 7)

Reply:

The requested information is as follows:

- (1) In 2019-20, the estimated expenditure on the Smart Government Innovation Lab is about \$4.9 million. The Office of the Government Chief Information Officer (OGCIO) will create 4 government IT professional posts to take forward the work.

To implement the TechConnect (block vote), the Innovation and Technology Bureau (ITB) created 8 non-directorate time-limited posts in 2017-18. The estimated annual salary expenditure of relevant posts in 2019-20 is about \$3.8 million.

- (2) The ITB set up the TechConnect (block vote) in mid-2017 to support government departments in planning and implementing technology projects, so as to enhance

operational efficiency and improve public services through the adoption of technology. So far, the ITB has agreed to support 48 technology projects or study projects proposed by 21 departments, involving a total sum of over \$300 million. Following the commencement of 4 and 25 projects in 2017-18 and 2018-19 respectively, another 19 projects will commence in 2019-20. Among the 48 projects, 1 has been completed in 2018 and 3 have been rolled out in the same year.

- End -

CONTROLLING OFFICER'S REPLY

ITB038

(Question Serial No. 0209)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Financial Secretary stated that since the publication of the Hong Kong Smart City Blueprint (the Blueprint) in December 2017, the Government has launched a number of major initiatives and is preparing for 3 smart city infrastructure projects, including providing an electronic identity for all Hong Kong residents, installing multi-functional smart lampposts, as well as enhancing the government cloud services and building a big data analytics platform, with over \$900 million allocated to these projects. In this connection, please advise the following:

1. The Blueprint maps out the policies and measures to be implemented in Hong Kong in the next 5 years in 6 areas, namely smart mobility, smart living, smart environment, smart people, smart government and smart economy. Has the Government conducted an in-depth assessment of whether the resources currently allocated are adequate for catering for the development in the above areas? If yes, what are the details? If not, what are the reasons?
2. With regard to the promulgation of the Outline Development Plan for the Guangdong-Hong Kong-Macao Greater Bay Area (the Plan), will the Government take corresponding actions to enhance the policies and measures for the development of smart city in Hong Kong, including improving the overall connectivity of the relevant systems in the Greater Bay Area, so as to foster the smooth flow of people, goods, information, capital and services in the region, as well as allocating additional resources to facilitate their implementation? If yes, what are the details? If not, what are the reasons?

Asked by: Hon LO Wai-kwok (LegCo internal reference no.: 10)

Reply:

The requested information is provided below:

- (1) The financial and manpower estimates required for implementing the policies and initiatives under the *Smart City Blueprint for Hong Kong* are worked out by the policy bureaux and departments concerned. In the case of the Innovation and Technology Bureau, we have allocated over \$900 million capital expenditure to carry out 3 digital infrastructure projects, namely “Electronic Identity” (eID), “Multi-functional Smart Lampposts Pilot Scheme” as well as “Next Generation Government Cloud and Big Data Analytics Platform”. The 3 projects are expected to be rolled out progressively by the end of 2020.
- (2) One of the key areas of work of the Government of the Hong Kong Special Administrative Region (HKSAR) in taking forward the development of the Greater Bay Area (GBA) is to work with the Mainland authorities to strengthen interconnectivity amongst the cities within the GBA through policy innovation, thereby enhancing the flow of factors of production, such as people, goods, capital and information.

Take the relevant initiatives of the smart city development as an example, with a view to facilitating the flow of talent and capital, the HKSAR Government collaborates with the Mainland authorities, for example, in promoting cross-boundary payment services to enable Hong Kong residents to use their Hong Kong digital wallets for payment in the Mainland on a pilot basis; and launching pilot scheme to enable Hong Kong people to open Mainland personal bank accounts in the GBA. We will also explore ways to promote the application of eID in public and private sectors in various areas including cross-boundary services. Regarding the flow of goods, the Mainland authorities will extend the “Single E-lock Scheme” to cover all 9 Mainland cities within the GBA to enhance cargo clearance efficiency. The initiative aims to facilitate the flow of goods between Hong Kong and those cities. We will also actively set up an international centre to foster data flow in the GBA.

- End -

CONTROLLING OFFICER'S REPLY

ITB039

(Question Serial No. 0519)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

On monitoring Cyberport in promoting the development of e-sports, will the Government advise this Committee of the progress of the relevant works since the allocation of \$100 million in the Budget last year to Cyberport for developing the Cyberport Arcade into a local e-sports and digital entertainment node to provide a competition venue for e-sports? What is the commissioning date? What is the amount of expenditures involved for the relevant works? What are the details of the use of the balance of the works?

Asked by: Hon LUK Chung-hung (LegCo internal reference no.: 7)

Reply:

The Government injected \$100 million into Cyberport in 2018-19 to promote the development of the local e-sports industry, of which \$50 million would be used for setting up a dedicated e-sports competition venue in the Cyberport Arcade, while the remaining \$50 million would be used for supporting the development of the e-sports industry, including organising local and regional competitions and major events, training programmes and promotional activities.

The \$50 million provision for setting up the dedicated e-sports competition venue in Cyberport will be fully used on conversion works and acquisition of professional equipment and facilities for setting up the venue. The works are expected to be completed in mid-2019.

- End -

CONTROLLING OFFICER'S REPLY

ITB040

(Question Serial No. 4401)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (3) Efficiency Office

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding Programme (3), please advise this Committee on:

- (1) details of the cases completed in the past 3 years with assistance from the Efficiency Office on business process re-engineering and organisational restructuring; and
- (2) details of the cases being assisted.

Asked by: Hon LUK Chung-hung (LegCo internal reference no.: 8)

Reply:

Details of the business process re-engineering (BPR) and organisational restructuring (OR) cases completed in the past 3 years (i.e. from 2016 to 2018) with assistance from the Efficiency Office (EffO) (known as the Efficiency Unit before 1 April 2018) and the on-going cases are set out in the attached table.

**Details of BPR and OR Cases Completed from 2016 to 2018
with Assistance from EffO and
Details of On-going BPR and OR Cases**

	Bureau/ Department Involved	Project Name	Project Scope
Cases completed from 2016 to 2018			
1.	Civil Engineering and Development Department	BPR Study on Explosives Licensing and Management	BPR
2.	Efficiency Office	Business Study on Central Benefits Service	BPR
3.	Fire Services Department (FSD)	Review on Ambulance Officer for FSD	OR
4.	Government Flying Service (GFS)	Management Study on GFS	BPR
5.	Rating and Valuation Department	BPR Study on Field Inspection System	BPR
6.	Social Welfare Department (SWD)	BPR Study on Upgrade of Database Software and Interface Enhancements for Client Information System of SWD	BPR
7.	Transport Department	BPR Study for Implementation of e-Services for Permit Application System	BPR
On-going Cases			
1.	Commerce and Economic Development Bureau	BPR Study on Development of Trade Single Window in Hong Kong	BPR

- End -

CONTROLLING OFFICER'S REPLY

ITB041

(Question Serial No. 3649)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

1) Will the Bureau please provide the date of incorporation, objectives and mode of operation of the following funds; and the balance, government injection amount, investment or other income and total expenditure of the funds in 2015-16, 2016-17 and 2017-18? If there are other funds within the purview of the Bureau not being listed below, please also provide information as per the items above.

1. Innovation and Technology Fund for Better Living
2. Applied Research Fund
3. Innovation and Technology Fund

2) Regarding the funds overseen by the Bureau, how will the Government assess and monitor the situation of various subsidies? Is there any indicators for reviewing the effectiveness of the funds? If yes, what is the latest situation? If no, what are the reasons?

Asked by: Hon MA Fung-kwok (LegCo internal reference no.: 10)

Reply:

The required information is provided as follows:

(1) Innovation and Technology Fund for Better Living (FBL)

The FBL was launched on 31 May 2017 to finance innovation and technology projects that bring more convenience, comfort and safety to daily living, or address the needs of specific community groups. So far, the Assessment Panel has approved funding for 18 applications, involving a total grant of about \$59 million. The grant will be disbursed to applicants according to the progress of the projects. The balance and total amount of expenditure of the FBL in 2015-16, 2016-17 and 2017-18 are as

follows:

Year	Balance (\$ million)	Government injection (\$ million)	Investment or other income (\$ million)	Expenditure (\$ million)
2015-16	-	-	-	-
2016-17	500	-	-	-
2017-18	499.4	-	-	0.6

Applied Research Fund (ARF)

The ARF is a Government venture capital fund of \$750 million set up in 1993. The Government reviewed the operation of the ARF and reported the relevant result to the Legislative Council (“LegCo”) Panel on Commerce and Industry (the Panel) in 2005. With the consent of the Panel, we decided to gradually wind down the ARF and cease making new investments. The balance, amount of Government injection, investment or other income/loss and total amount of expenditure of the ARF in 2015-16, 2016-17 and 2017-18 are as follows:

Year	Balance (\$ million)	Government injection (\$ million)	Investment or other income/loss (\$ million)	Expenditure (\$ million)
2015-16	95	-	(14.8) ^{Note}	1.0
2016-17	95	-	0.7	0.6
2017-18	96	-	0.9	0.5

Note: Due to allowance for impairment losses on investments

Innovation and Technology Fund (ITF)

The Government established the \$5 billion ITF in 1999 to finance projects that contribute to technology upgrading in manufacturing and services industries and promote innovation. The LegCo Finance Committee approved an additional injection of \$5 billion to the ITF in February 2015, and 2 further injections of \$2 billion each in June and July 2016 respectively to implement the “Midstream Research Programme for Universities” and the “Innovation and Technology Venture Fund”. The above total of \$9 billion was transferred into the ITF in 2016-17. The annual balance, amount of Government injection, investment or other income and total amount of expenditure of the ITF from 2015-16 to 2017-18 are as follows:

Year	Balance (\$ million)	Government injection (\$ million)	Investment or other income (\$ million)	Expenditure (\$ million)
2015-16	42	-	69	1,014
2016-17	7,991	9,000	207	1,258
2017-18	6,796	-	288	1,483

- (2) Both the FBL and ITF have put in place stringent monitoring systems to assess and monitor the performance of individual funding projects. Successful applicants are required to submit regular progress reports as well as annual and final audited project accounts for the Innovation and Technology Bureau (“ITB”) / the Innovation and Technology Commission (“ITC”) to review and assess the project progress. The ITB/ITC may conduct on-site inspections or checks to verify the project progress and may suspend or terminate the grant payment if necessary.

The Government has been monitoring the operation of the FBL and ITF closely, with reviews (on matters such as the funding mode, eligibility criteria and scope) conducted from time to time and enhancement/adjustment introduced as and when appropriate. Generally speaking, major indicators used to assess the performance of a fund or individual funding schemes and services include the number of applications, the number of approvals given and the total amount of grants made etc. Depending on the nature, objective and target groups of an individual fund/scheme, the ways and criteria for assessing the effectiveness vary. Such criteria used include the commercialisation situation and the number of patent applications generates.

As for the ARF, the Applied Research Council (“ARC”) continues to monitor and manage the remaining investment projects so as to make proper exit arrangements. In the process of gradually winding down the ARF, the ARC takes into account factors such as the overall market situation, progress of individual projects and proper use of public money. To monitor the operation of the ARF, the ARC is required to submit annual reports and audited financial statements to the Government.

-End-

CONTROLLING OFFICER'S REPLY

ITB042

(Question Serial No. 2362)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

- a. Please set out all expenditures (with an exhaustive breakdown) of the government on supporting experiments on animals in over the past 5 years and the estimated expenditure for 2019-20.
- b. The Government earmarked \$3 billion in last year's Budget for the Hong Kong Science and Technology Parks Corporation to construct research-related infrastructure and facilities including an animal laboratory. What were the progress of the construction works of the animal laboratory and the expenditures involved in the past year?
- c. What type of and how many animal laboratories have been completed? What are the types and purposes of the experiments on animals being conducted in such laboratories and what are the species and number of animals involved?

Asked by: Hon MO Claudia (LegCo internal reference no.: 27)

Reply:

A consolidated reply to the different parts of the question is as follows:

The development of the animal research and drug testing facility by the Hong Kong Science and Technology Parks Corporation (HKSTPC) aims at providing healthcare technology researchers with infrastructure, with a view to complementing Hong Kong's research activities in the field of healthcare technologies. The facility will only be used for conducting experiments relating to and necessary for healthcare research (such as drugs efficacy tests and toxicology studies). The HKSTPC will use part of the Government's allocation of \$10 billion to develop and operate the animal research and drug testing facility. The HKSTPC is working out the details of the facility, and will conduct market research as well as feasibility and technical studies in the first half of 2019.

- End -

CONTROLLING OFFICER'S REPLY

ITB043

(Question Serial No. 3513)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Innovation and Technology Bureau considers smart city development as a key area of work on promoting innovation and technology, and it plans to install “multi-functional smart lampposts” (smart lampposts) in 4 crowded districts to promote the development of smart city.

Please advise on:

1. whether the Scheme will be extended to other districts; if yes, whether a timetable is available;
2. whether it will consider extending the Smart Lampposts Scheme to old urban areas to specifically allow for installation of radio base stations for Wi-Fi and 5G network services to help residents of Chinese tenements access the Internet; if yes, what are the details; if no, what are the reasons; and
3. the estimated time within which the smart lampposts will have free Wi-Fi connection and provide such service.

Asked by: Hon MO Claudia (LegCo internal reference no.: 51)

Reply:

The requested information is provided below:

- (1) Under the “Multi-functional Smart Lampposts” pilot scheme, the Office of the Government Chief Information Officer (OGCIO) will install about 400 new lampposts with smart devices in Central/Admiralty, Causeway Bay/Wan Chai, Tsim Sha Tsui, and Kwun Tong/Kai Tak Development Area. The procurement of equipment for some 50 lampposts under the first phase has been basically completed, and the lampposts will come into operation progressively before mid-2019. The remaining some 350 lampposts will be installed by phases, and all the works are expected to be completed in 2021-22.

- (2) and (3) We will review the effectiveness of the scheme and the implementation experience after one year of operation of the smart lampposts, with a view to devising the long-term arrangements for installing smart lampposts, including the plan to extend the scheme to other districts and the estimated expenditure. Upon the assignment of the first-batch spectrum for the fifth generation (5G) mobile communications by the Communications Authority in April this year, the OGCIO will, in mid-2019, invite applications from all relevant mobile network operators for installing base stations of 5G services at smart lampposts and in parallel providing free Wi-Fi services. Details of the arrangements are still being finalised.

Given the limited reception range of Wi-Fi signals, the Wi-Fi services provided at smart lampposts may not be able to cover all nearby buildings. It may not be technically feasible to address the situation that individual residents of Chinese tenements who have no fixed broadband services to access the Internet.

- End -

CONTROLLING OFFICER'S REPLY

ITB044

(Question Serial No. 1759)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is stated in the Budget that the TechConnect (block vote) will continue to be implemented to support technology projects of government departments to enhance operational efficiency and service quality. Will the Government advise on:

(1) the expenditure and commissioning dates of the 24 technology projects supported for implementation last year, the details of monitoring the progress and expenditure of the projects and how to evaluate their effectiveness, whether there are relevant performance indicators to assess their effectiveness; if yes, what are the details;

(2) the technology project proposals/applications received by the Innovation and Technology Bureau (ITB) from departments, including details of the technology project proposals, names of the departments, project titles, technologies to be adopted and expenditures; project proposals/applications rejected and reasons for their rejection;

(3) the number of pilot projects approved by ITB in 2018-19, departments of the approved proposals, project titles, technologies to be adopted, expenditures, expected completion time and vetting criteria in tabulated form;

(4) the annual expenditure on salaries of the time-limited non-directorate posts created in 2018-19 and to be created in 2019-20 for implementation of the above initiatives;

(5) the posts and annual expenditure on salaries of the non-civil service contract staff created in 2018-19 and to be created in 2019-20 for implementation of the above initiatives; and

(6) the plans to encourage departments to cooperate with local small and medium enterprises and start-ups in 2019-20?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 60)

Reply:

- (1), (2) and (3) The Innovation and Technology Bureau (ITB) set up the TechConnect (block vote) in mid-2017 to support government departments in planning and implementing technology projects so as to enhance operational efficiency and improve public services through the adoption of technology.

The scheme accepts applications from all government departments (except those operating under the Trading Fund mode and subvented bodies). The amount of funding provided for each project is capped at \$10 million, with a funding period up to 3 years. Applications submitted by departments are considered by an internal committee. Assessment criteria include the benefits of public services improvement, adoption of technology, technical viability, cost, etc.

The departments concerned are required to submit reports regularly to the TechConnect Unit of ITB, which will monitor the progress and expenditure of the approved projects. When necessary, the TechConnect Unit will conduct meetings with, or pay visits to the departments to understand the project progress and offer advice.

ITB received a total of 40 technology project applications in 2017. The internal committee responsible for vetting applications supported funding for 24 technology projects. Details are at Annex I. ITB received a total of 56 technology project applications in 2018. The internal committee agreed to support funding for 24 technology projects. Details are at Annex II. Some of the applications were not supported as they did not meet the assessment criteria.

- (4) and (5) To implement the TechConnect (block vote), ITB created 8 non-directorate time-limited posts in 2017-18. As some of the posts were yet to be filled, the salary expenditure of the relevant posts in 2018-19 revised estimates was about \$1.89 million. In 2019-20, the estimated salary expenditure is about \$3.8 million. ITB has not employed non-civil service contract staff for handling the relevant work.
- (6) The Government will continue to encourage policy bureaux, departments and public bodies to participate in the Public Sector Trial Scheme for trial of the research and development (R&D) results of local small and medium enterprises (SMEs) and start-ups, thereby facilitating the commercialisation of R&D results. The Innovation and Technology Commission set up a helpdesk for the scheme in December 2018 to assist in matching applicants with policy bureaux/departments/public bodies.

To tie in with the new government procurement policy, the Office of the Government Chief Information Officer will set up a Smart Government Innovation Lab this April with a view to enabling the industry to help assist government departments to adopt information technology to improve public

services, thereby fostering public-private partnership and creating more business opportunities for local start-ups and SMEs.

Besides, the Electrical and Mechanical Services Department (EMSD) acts as a facilitator of innovation by assisting government departments in identifying E&M-related new technologies and products, and supporting them in engaging stakeholders in the innovation and technology industry, including local SMEs and start-ups, to build up collaborative relationships. From incubation of ideas to implementation, the EMSD will provide appropriate support to departments according to their needs.

Supported Technology Projects in 2018-19				
Department	Project Title	Technologies Adopted	Estimated Amount (\$ million)	Rollout Date (tentative)
Agriculture, Fisheries and Conservation Department	Pilot project of real-time Phytoplankton Taxa Monitoring System	Internet of Things/ Sensors	5.4	Q2 2020
Buildings Department	The use of advanced technological testing methods to assist water seepage investigation in buildings	Microwave tomography/ Infrared Scanning & Imaging	5.0	Rolled out in Q2 2018
Customs and Excise Department	“Smart Crossing” - deployment of Radio-frequency identification (RFID) technology on the recognition of licence plate numbers of cross-boundary private cars	Radio-frequency Identification	9.0	Rolled out in Q4 2018
	A study on the development of a “Cargo Big Data System”	Big Data/ Artificial Intelligence	9.8	Q2 2020
Civil Engineering and Development Department	Provision of applications to promote smart mobility, sustainable leisure and recreation information of Lantau	Geographic Information System / Global Positioning System / Augmented Reality	0.5	Q2 2019
Department of Health	Feasibility study for the implementation of a Digitalised Chinese Medicines Herbarium	3D Scanning & Modelling	1.9	Completed in Q4 2018
Drainage Services Department	Provision of ultrasonic sludge pre-treatment facilities at the Tai Po Sewage Treatment Works	Advanced Environmental Technology	9.7	Q3 2020
	Smart Sewerage Monitoring System	Internet of Things/ Sensors/	5.5	Q3 2019

Supported Technology Projects in 2018-19				
Department	Project Title	Technologies Adopted	Estimated Amount (\$ million)	Rollout Date (tentative)
		Geographic Information System/ Global Positioning System		
	Retrofitting the SANI small scale plant at the Shatin Sewage Treatment Works	Advanced Environmental Technology	9.6	Q3 2020
	Pilot study to investigate rainfall infiltration in existing sewerage systems in urban area	Internet of Things/ Sensors/ Geographic Information System/ Global Positioning System	2.0	Q1 2020
Energizing Kowloon East Office, Development Bureau	To conduct a feasibility study to monitor illegal parking / stopping by utilising video analytics and to conduct a pilot trial at Kowloon East	Artificial Intelligence/ Machine Learning/ Video Analytics	8.0	Q2 2019
Environmental Protection Department	Air pollution sensor practicality trial	Internet of Things / Sensors	7.6	Q2 2019
Housing Department	Develop the technology to produce plans for statutory submission from the Building Information Modelling	Building Information Modelling	8.0	Q3 2020
Hong Kong Observatory	Integrated urban weather monitoring and data-sharing platform for smart cities	Internet of Things / Sensors	8.2	Q2 2020
Hong Kong Police Force	E-statement (Speech Recognition) and Data Mining System (EDMS)	Big Data/ Speech Recognition	9.5	Q4 2019
	Radio-frequency identification (RFID) system for management of affected people	Internet of Things/ Radio-frequency	3.4	Q2 2020

Supported Technology Projects in 2018-19				
Department	Project Title	Technologies Adopted	Estimated Amount (\$ million)	Rollout Date (tentative)
	during major incidents	Identification		
	Video Explorer	Video Analytics	9.9	Q1 2019
	Automation of Cybercrime Capturing, Categorization and Correlation (AC4)	Big Data/ Artificial Intelligence	6.8	Q4 2019
	Advanced Image Processing System (Project AIPS)	Video Analytics	6.7	Q4 2019
Leisure and Cultural Services Department	Non-invasive conservation studies of art and antiquities with innovative imaging technologies	X-Ray Scanning & Imaging	6.5	Q1 2021
	Non-invasive conservation studies of cultural heritage with X-ray computed tomography	X-Ray Scanning & Imaging	9.0	Q1 2021
Office of the Government Chief Information Officer	Pilot Cyber Security Information Sharing Partnership Programme	Big Data/ Artificial Intelligence	8.5	Rolled out in Q3 2018
Water Supplies Department	Provision of in-line hydropower harnessing device for Water Intelligent Network	Advanced Engineering Technology	2.0	Q2 2020
	Study on anti-corrosion and anti-biofouling coating for enhancing water pump efficiency	Advanced Engineering Technology	1.1	Q3 2019

Supported Technology Projects in 2019-20				
Department	Project Title	Technologies Adopted	Estimated Amount (\$ million)	Rollout Date (tentative)
Civil Engineering and Development Department	Development of an automated system for concrete cube testing	Advanced Engineering Technology/ Artificial Intelligence/ QR Code	9.7	Q1 2021
Correctional Services Department	Health Signs Monitoring System for Persons in Custody requiring additional medical observation and care in hospitals of Stanley Prison (SP) and Tai Lam Centre for Women (TLCW), geriatric ward and sickbay of Siu Lam Psychiatric Centre (SLPC) and certain hall(s) in SP	Smart wristband/ Bluetooth	9.2	Q2 2020
	Video Analytic Monitoring System for behaviour of Persons in Custody in Pik Uk Prison (PUP)	Artificial Intelligence/ Machine Learning/ Video Analytics	9.6	Q2 2021
Customs and Excise Department	Feasibility study on Single E-lock enhancement	E-lock/ Augmented Reality/ Geographic Information System / Global Position System	8.9	Q4 2021
Development Bureau	Application of QR Code in tree labelling	QR code	7.0	Q4 2020
Tree Management Office of Development Bureau and Architectural Services Department	Application of optical fiber sensing technology in monitoring of masonry retaining walls, stonewall trees and large trees	Sensors / Advanced Engineering Technology	8.0	Q2 2021
Department	Developing Smart Fever	Artificial	7.0	Q1 2020

Supported Technology Projects in 2019-20				
Department	Project Title	Technologies Adopted	Estimated Amount (\$ million)	Rollout Date (tentative)
of Health	Screening System for boundary control points in Hong Kong	Intelligence / Machine Learning / Video Analytics / IR Imaging		
Drainage Services Department	Trial use of robots for inspection and desilting of drains, box culverts, decked nullahs and sewers	Robotics/ Advanced Engineering Technology	9.8	Q4 2019
	Intelligent Pressure Transient Monitoring System for Rising Mains	Advanced Engineering Technology/ Sensor for pressure transient monitoring	2.2	Q2 2019
	Applying smart robotic underwater vehicle (ROV) for ensuring safe and effective maintenance of wet wells at sewage treatment plants	Imaging Sonar/ Digital Terrain Models/ Robotics/ Global Position System	8.5	Q2 2021
Electrical and Mechanical Services Department	Study on Immersion Cooling System for data centres	Advanced Environmental Technology	1.4	Q4 2019
	Study of noise signature of lifts and escalators using optical fiber Bragg grating sensing technology	Sensors/ Advanced Engineering Technology	1.2	Q3 2019
Fire Services Department	Implementation of logistics solution of dangerous drugs for patients with certain medical conditions	Radio-frequency Identification/ Video Analytics/ Internet of Things	9.7	Q1 2021
Highways Department	Development of lux logger with GPS function	Lux Logging/ Global Position System/ Advanced Engineering	1.5	Q3 2020

Supported Technology Projects in 2019-20				
Department	Project Title	Technologies Adopted	Estimated Amount (\$ million)	Rollout Date (tentative)
		Technology		
Hong Kong Observatory	Development of a smart analytics platform for weather related Big Data to support forecasting and alerting of high-impact weather hazards	Artificial Intelligence/ Big Data/ Cloud Computing	9.6	Q1 2022
Hong Kong Police Force	Fraud Analytic Toolkit for Social Media (Project FANTOM)	Artificial Intelligence/ Web Crawling	9.1	Q3 2020
	Predictive Email Scam Analytic (PESA) System	Big Data / Cloud Computing	5.6	Q2 2021
Lands Department	Pilot project on creation of 3D indoor maps for smart city	3D Modelling/ Geographic Information System	5.5	Q3 2019
Leisure and Cultural Services Department	Tech Experiential Learning Project	Augmented Reality /Virtual Reality	9.4	Q4 2020
Office of the Government Chief Information Officer	Pilot application on blockchain technology	Blockchain	4.9	Q4 2019
Transport Department	Pilot Intelligent Traffic Signal System	Sensors/ Video Analytics	8.1	Q1 2021
	Trial of geo-fencing technology on vehicles	Artificial Intelligence/ Sensors/ Video Analytics/ Geographic Information System / Global Position System	2.5	Q3 2020
Water Supplies Department	Robotic in-line inspection of water mains	Robotics/ Artificial Intelligence/ Sensors	9.0	Q3 2021
	Using Unmanned	Geographic	4.0	Q4 2019

Supported Technology Projects in 2019-20				
Department	Project Title	Technologies Adopted	Estimated Amount (\$ million)	Rollout Date (tentative)
	Surface Vessel (USV) System for water quality monitoring and sampling at impounding reservoirs	Information System / Global Position System / Advanced Environmental Technology		

- End -

CONTROLLING OFFICER'S REPLY

ITB045

(Question Serial No. 1776)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

It has been announced in this year's Budget that \$5.5 billion will be earmarked for the development of Cyberport 5. Regarding the work of Cyberport, please advise on the following:

- (1) What are the occupancy rate, number of local technology enterprises and start-ups admitted, their business type and the operating expenditure in respect of the Smart-Space small offices and working space in 2018-19?
- (2) How many local technology enterprises and start-ups are expected to be accommodated in the new building to be constructed for the development of Cyberport 5 with the \$5.5 billion earmarked?

What are the number, company name, business type, staff number, financing stage and the investment amount secured of Cyberport information and communications technology start-ups with investment from the Cyberport Macro Fund in 2018-19 (please list out in tabular form), as well as the number of start-ups with planned investment in 2019-20 and the related details?

- (3) What are the numbers of applications, accepted applications and applications with financing secured together with the total financing amount of various Cyberport incubation programmes in 2018-19, as well as the survival rate (of incubatees) in 3 years after graduation? Will more support be given to incubatees in 2019-20? If yes, what are the details, targets as well as the manpower and expenditure involved?
- (4) What are the details, targets as well as the manpower and expenditure involved for Cyberport's projects in promoting financial technology (FinTech) and e-commerce in 2018-19? Will more resources be allocated for studying and developing the application of blockchain, facilitating collaboration between local FinTech start-ups

and financial institutions, and promoting e-commerce to various sectors and small and medium enterprises in 2019-20? If yes, what are the details, targets as well as the manpower and expenditure involved?

- (5) What are the estimated expenditure, targets and methods of promoting e-sports in areas of technological development and talent nurturing in 2019-20? What is the progress of the work on drawing up guidelines in relation to licences for e-sports venues? Have industry stakeholders been consulted? If yes, what are the details?
- (6) More financial assistance was offered for start-ups to conduct market research and promotion in 2018-19. What are the number of companies applying for assistance and the amount approved?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 11)

Reply:

The information required is provided as follows:

- (1) As at end February 2019, the occupancy rate of Cyberport Smart-Space is as follows:

	Number of start-ups	Occupancy rate	Local company
Smart-Space in Cyberport campus	407	90%	70%
Smart-Space 8 in Tsuen Wan	90	86%	90%

The scope of business of these start-ups covers artificial intelligence (AI), big data, application design, e-commerce, FinTech and educational technology. In 2018-19, the total expenditure of Cyberport in operating Smart-Space is about \$10.5 million.

- (2) It is expected that about 100 technology companies will move into Cyberport 5 as tenants, while about 750 start-ups will use the Smart-Space.

As at end February 2019, the Cyberport Macro Fund (CMF) has approved 8 applications, with a total investment of \$58 million. Details of the relevant start-ups are as follows:

	Company name	Business nature	Staff number (Approx.)	Latest financing position
1	LYNK	Information network on global experts	100	Series B round of funding commences
2	TravelFlan	Chatbot for travelers supported by AI	30	Series A+ round of funding just completed
3	Snapask	Education platform which matches students with teachers for instant problem	90	Series B round of funding commences

	Company name	Business nature	Staff number (Approx.)	Latest financing position
		solving		
4	Yeechoo	Online branded fashion rental platform	10	Series A round of funding completed
5	HelloToby	Service matching platform	30	Series A round of funding completed
6	Findsolution AI	AI educational technology company	36	Series B round of funding to commence
7	Origami Labs	Research and development of smart rings	16	Series A+ round of funding completed
8	DocDoc	Platform for search of doctors	84	Series A round of funding to be continued

Note: The amounts of investment for individual projects are not disclosed as sensitive commercial information is involved.

In 2019-20, the number of start-ups to be invested by the CMF will depend on the actual number of applications as well as the business and financial condition of the applicants.

- (3) In 2018-19, the Cyberport Incubation Programme (CIP) received 677 applications in total, among which 108 start-ups were admitted to the CIP. Cyberport increased its financial subsidy for the CIP from \$330,000 to a maximum of \$500,000 in 2018-19. Currently, 72 newly-joined start-ups and 146 incubatees which have not yet graduated from the CIP have benefited from the initiative. Cyberport has no plan to raise the subsidy limit in 2019-20. In 2018-19, Cyberport's start-ups (including incubatees and alumni, and grantees of the Cyberport Creative Micro Fund) have raised about HK\$5.4 billion, and 72% of these start-ups have survived for 3 or more years after graduation.
- (4) In 2018-19 and 2019-20, Cyberport continued/will continue to support start-ups in FinTech and e-commerce clusters through the CIP, so as to actively assist the relevant companies in developing their businesses and establishing partnership. As at end February 2019, 94 start-ups in FinTech cluster and 90 start-ups in e-commerce cluster have participated in the CIP.

To promote technology start-ups in embracing global business opportunities, developing overseas businesses and partnership, Cyberport have actively formed partnership with other overseas institutions and organisations, which include assisting Accenture FinTech Innovation Lab in organising a 12-week accelerator programme at Cyberport; collaborating with the Department for International Trade of the United Kingdom (UK) in providing soft-landing opportunities for FinTech companies in Hong

Kong and the UK; and participating in and supporting a large number of international FinTech events, such as Hong Kong FinTech Week, Singapore FinTech Festival, FinTech Taipei and Asian Financial Forum.

Moreover, a total of 211 university students were funded by Cyberport to participate in the FinTech entrepreneurship boot camp at renowned universities in the United States. Cyberport also co-organised the FinTech Career Accelerator Scheme with the Hong Kong Monetary Authority (HKMA) and the Hong Kong Applied Sciences and Technology Research Institute to provide internship opportunities for university undergraduates and postgraduates at such institutions as banks, Stored Value Facility service providers and the HKMA, with a view to nurturing FinTech talent.

Cyberport took forward the above programmes/schemes with internal resources and the government injection of \$200 million in 2018. No government manpower and other additional expenditures are involved.

- (5) The Government injected \$100 million into Cyberport in August 2018 to promote the development of the e-sports industry, of which \$50 million would be used to set up a dedicated e-sports competition venue in the Cyberport Arcade for the industry to host e-sports competitions, activities and training. The works are expected to be completed by mid-2019. The remaining \$50 million would be used to support the development of the e-sports industry, including organising local and regional competitions and major events, training programmes and promotional activities. For 2019-20, Cyberport will introduce two support schemes in the first half of 2019, including the E-sports Industry Facilitation Support Scheme and the E-sports Internship Scheme. The E-sports Industry Facilitation Support Scheme supports the industry and organisations in organising and participating in local and overseas e-sports competitions and activities conducive to the development of the industry. The E-sports Internship Scheme provides employers in the industry with a salary subsidy for interns and assists in talent matching. There will be a total of 20 internship placements each year, and each successful applicant may engage up to 3 interns. The maximum subsidy for each intern is \$ 7,500 per month.

Having consulted the industry and relevant stakeholders, the Home Affairs Bureau (HAB) has formulated the guidelines on licensing of e-sports venues to clearly define the specific conditions for such venues as well as the application procedures and conditions for exemption. The Office of the Government Chief Information Officer has also given professional advice and support to the HAB in this regard. The guidelines have been issued to the industry in early April this year.

- (6) The Overseas/Mainland Market Development Support Scheme (MDSS) was introduced by Cyberport in the fourth quarter of 2018 under which a financial subsidy of up to \$200,000 would be provided to start-ups to assist them in conducting market research and promotion, participating in trade fairs outside Hong Kong, expanding into overseas markets and attracting investors. As at end February 2019, 13 applications for the MDSS were approved by Cyberport, and the financial assistance will be provided on a reimbursement basis. The total amount of subsidy is estimated to be about \$2.1 million.

- End -

CONTROLLING OFFICER'S REPLY

ITB046

(Question Serial No. 1800)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding overseeing the launch of the Technology Talent Admission Scheme (TechTAS) to facilitate enterprises' engagement of overseas and Mainland R&D talent as mentioned in the Estimates, please advise on the following:

(1) the respective numbers of applications for importing talent under TechTAS received and approved by the Government; the utilisation of quota by institutes allotted with quota (including the number of quota granted and the number of non-local talent employed); a breakdown of the numbers of admitted persons by nationality, the region in which the institutions awarding the relevant degrees to them are located, the number of years for which they had worked in the relevant technology areas, and the average monthly salaries upon arrival in Hong Kong; the number of companies whose applications have been approved, and among them, the respective numbers of those which are (i) organisations funded by the Innovation and Technology Fund and (ii) incubatees and innovation and technology (I&T) tenants; a breakdown of the number of such companies by business type (i.e. biotechnology, artificial intelligence, cybersecurity, robotics, data analytics, financial technologies and material science) and by the quota granted (i.e. 1 to 5, 6 to 10, 11 to 20, 21 to 50 and more than 50 persons) since the launch of TechTAS in May last year;

(2) given that the 11 professions covered by the first Talent List promulgated in August last year included (i) experienced data scientists and experienced cybersecurity specialists and (ii) I&T experts, and that under the General Points Test of the Quality Migrant Admission Scheme, bonus marks will be given to applicants who meet the specifications of the respective professions under the Talent List, what are the respective up-to-date numbers of persons who have been assessed as meeting the specifications of the two professions;

(3) the channels through which the Government publicises and promotes the above talent admission schemes, as well as the relevant details;

(4) regarding talent in specific information technology (IT) areas being in short supply in Hong Kong, whether the Government will draw reference from the practices of overseas governments such as the Capability Transfer Programme implemented by the Singapore Government, and engage non-local specialists to transfer professional knowledge and technology to local staff; and

(5) whether the Government will discuss with universities and relevant institutions with a view to organising more IT courses recognised under the Qualifications Framework, providing tuition fee subsidies and internships to students, and offering continuing education scholarships and professional certifications for graduates.

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 61)

Reply:

In consultation with relevant bureaux and departments (“B/Ds”), the required information is provided as follows:

- (1) The Technology Talent Admission Scheme (“TechTAS”) was launched in June 2018. As at end February 2019, the Innovation and Technology Commission (“ITC”) has received a total of 226 quota applications and approved 225 quotas for 38 eligible technology companies/institutes. As stipulated, these companies/institutes must be tenants or incubatees of the Hong Kong Science and Technology Parks Corporation (“HKSTPC”) or Cyberport. The statistics on their business areas and the number of quotas awarded are as follows:

Number of quotas awarded Business area	1-5	6-10	11-20	21-50
Data analytics	10	2	2	0
Financial technologies	10	4	1	1
Artificial intelligence	7	2	2	2
Cybersecurity	4	1	2	0
Robotics	3	1	1	0
Biotechnology	3	1	0	0
Material science	2	2	0	0

Note: As each technology company/institute applying for quotas may be engaged in more than one business areas, the sum of the figures may not equal to the total number of technology companies/institutes awarded with quotas.

As at end February 2019, the Immigration Department (“ImmD”) has received a total of 50 visa/entry permit applications and approved 40 of them. The statistics on the number of non-local persons approved for entry under TechTAS by regions, locations of degree-awarding institution (for their highest qualification) and monthly remuneration are as follows:

Region	Number of non-local persons approved for entry under TechTAS
Mainland China	29
Taiwan	2
Southeast Asia	5
Others	4
Total	40

Location of the degree-awarding institution (for the highest qualification)	Number of non-local persons approved for entry under TechTAS
Mainland China	22
Other regions in Asia	9
Europe	4
America(s)	3
Australia	2
Total	40

Monthly remuneration	Number of non-local persons approved for entry under TechTAS
\$20,000 - \$39,999	20
\$40,000 - \$79,999	16
\$80,000 or above	4
Total	40

The ImmD does not maintain statistics on the number of years for which the above non-local persons have been engaged in the relevant technology fields.

- (2) To complement the Talent List of Hong Kong promulgated by the Labour and Welfare Bureau (“LWB”), the ImmD’s Quality Migrant Admission Scheme (“QMAS”) has since end August 2018 provided immigration facilitation to eligible applicants. Applicants who meet the specifications of the respective professions under the Talent List will be awarded 30 bonus points under the General Points Test of QMAS, subject to documentary proof. As at end February 2019, there are 4 and 6 applications which meets the professional specifications of data scientists and cyber security specialists, and innovation and technology experts respectively under the Talent List.
- (3) Since the promulgation of the Talent List, the LWB has worked in collaboration with the relevant B/Ds to step up publicity and promotion efforts on the Talent List in the Mainland and overseas with the theme “Hong Kong • Talent Hub - Unlimited

Opportunities” to attract target quality talent from around the world. Promotion efforts include reaching out to potential target talent through interviews, meetings, briefings, exhibitions, social media publicity and newspaper advertisements. The relevant B/Ds have also actively introduced the Talent List to local professional bodies and chambers of commerce, urging them to liaise with their Mainland and overseas counterparts and encourage potential talent to submit applications to come to Hong Kong. In addition, the Government has set up a dedicated website for the Talent List (www.talentlist.gov.hk) and produced leaflets as well as provided enquiry services.

As for TechTAS, ITC and ImmD have held 4 briefing sessions in HKSTPC and Cyberport in 2018-19, attracting more than 300 participants. ITC, HKSTPC and Cyberport have publicised TechTAS-related information on their respective websites. In addition, the HKSTPC has, through its one-stop business support centre TecONE, provided consultancy services relating to TechTAS to its tenants and incubatees. Cyberport has publicised TechTAS via its e-newsletter and offered individual advisory services and briefings on the scheme to interested tenants and incubatees.

- (4&5) The Government has actively pooled technology talent in Hong Kong through various policies and measures, including TechTAS and Talent List, to promote the exchange of experience and knowledge among technology talent.

On the other hand, the Government has been encouraging universities and other local course providers to apply for organising information technology (“IT”) programmes recognised under the Qualifications Framework having regard to the latest market situation and demand. For example, the Vocational Training Council launched the Higher Diploma in Data Science and Analytics programme in 2017, the Higher Diploma in Financial Technology programme in 2018 and will launch the Higher Diploma in artificial intelligence and development of mobile apps programme in 2019 respectively. The relevant programmes are listed on the Qualifications Register.

In addition, the Continuing Education Fund will cover IT courses and programmes in other different areas to encourage the local workforce to continue their education through provision of funding.

- End -

CONTROLLING OFFICER'S REPLY

ITB047

(Question Serial No. 3262)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the Innovation and Technology Fund for Better Living (FBL), will the Government inform this Committee:

- (1) of the respective numbers of applications received, vetted, approved or rejected by the Government so far; the contents and modes of the innovation and technology (I&T) projects involved in these applications, with the number of applications by category; the total and average amounts of funds granted to the approved applications; and if there were applications rejected, of the main reasons for that;
- (2) of the manpower involved in the work and the estimated operational expenses of the FBL in 2019-20; and
- (3) of the expenditure on promoting the FBL and the details of the publicity activities in 2018-19; the number of participants; and the estimated expenditure on promoting the FBL and the planned publicity activities in the coming year.

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 69)

Reply:

The required information is provided below:

- (1) The Innovation and Technology Fund for Better Living ('FBL') was launched on 31 May 2017. As at March 2019, we have received a total of 79 eligible applications, of which 5 were returned due to various reasons. The FBL Assessment Panel ('the Panel') has assessed 62 applications, and supported funding for 18 of them with a total grant of about \$59 million. The average grant for each project is about \$3.3 million. Approved projects include: a service platform for persons with rehabilitative needs,

devices helping the disabilities exercise, teaching tools for children with special learning needs, mobile application promoting healthy diet, service platform for space sharing in the community, mobile application encouraging elders to do exercise, device for examining children's eyes, intelligent system designed for elderly singletons and artificial intelligence system for detection of drowning incidents.

The remaining 44 applications which did not meet the assessment criteria were not supported by the Panel. The assessment criteria include: benefits brought to the public or specific community group(s), innovation and technology content, feasibility and sustainability, financial considerations, and technical and management capability of the applicant.

- (2) In 2019-20, the estimated expenditure on salaries for the FBL Secretariat is \$4.4 million. Other operating expenditure will be met by internal resources of the Innovation and Technology Bureau. We do not have a separate breakdown of the relevant expenditure.
- (3) In 2018-19, the FBL Secretariat organised a series of publicity and promotional activities, including promoting the FBL through media interviews, holding 2 briefing sessions, attending various public activities, and meeting with interested organisations or groups to explain details of the FBL. These activities reached out to a total of about 950 organisations and 1 600 persons. The expenditure was met by internal resources. We do not have a separate breakdown of the relevant expenditure.

The FBL Secretariat plans to hold further briefing sessions in the second half of 2019 to introduce the FBL to eligible organisations and social welfare organisations not subvented by the Social Welfare Department and invite their applications. The FBL Secretariat will continue to proactively promote the FBL through various channels to stakeholders.

- End -

CONTROLLING OFFICER'S REPLY

ITB048

(Question Serial No. 3701)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (1) Director of Bureau's Office

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please provide in table form details of the overseas duty visits made by the Secretary for Innovation and Technology in 2018-19, including the date of visit, place of visit, purpose and major itinerary, number of officials from the Office of the Secretary for Innovation and Technology in the entourage, hotel accommodation expenses, transportation expenses, other expenses and total expenditure.

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 150)

Reply:

Details of the duty visits made by the Secretary for Innovation and Technology in 2018-19 (as at the end of February 2019) are as follows:

Dates of visits (Number of visits)	Places of visits	Purposes of visits	Size of Entourage	Passage expenses HK\$ (A)	Hotel expenses HK\$ (B)	Other expenses^{Note} HK\$ (C)	Total expenditure HK\$ (A)+(B)+(C)
2018-19 (as at the end of February 2019) (7 visits)	Shenzhen, Dongguan, Zhongshan, Foshan, Guangzhou, Beijing and Tianjin; Tokyo, Japan; Paris, France; London, the United Kingdom; and Basel and Zurich, Switzerland	To attend meetings and events, and conduct exchanges (e.g. attending the 2018 Summer Davos Forum etc., and meeting with government officials, local bodies and personnel from innovation and technology organisations)	1-2 for each visit	About 242,000	About 147,000	About 116,000	About 505,000

Note: Other expenses include subsistence allowances and entertainment expenses.

- End -

CONTROLLING OFFICER'S REPLY

ITB049

(Question Serial No. 3702)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the sites selected for innovation and technology (I&T) purposes at Wang Chau, Yuen Long; Kwu Tung North New Development Area (NDA); Hung Shui Kiu NDA; and near Liantang/Heung Yuen Wai Boundary Control Point, please advise:

- (1) in tabular form a list of the lands currently reserved for I&T development (by district, location, land area, planned use and plot ratio), and information of the sites of which land uses are to be changed in response to the development plan of the Hong Kong-Shenzhen Innovation and Technology Park in the Lok Ma Chau Loop (by district, location, land area, new land use and plot ratio); and
- (2) whether there were plans to carry out consultancy studies on the aforementioned sites to formulate appropriate land uses in 2018-19; if yes, what the details and expenditures are; whether consultancy studies will be carried out in 2019-20; if yes, what the details and expenditures are.

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 151)

Reply:

The required information is provided as follows:

- (1) Information of the sites currently reserved for innovation and technology ("I&T") development is set out below:

	Site	Approximate area reserved for I&T	Site information
1.	Kwu Tung North New Development Area (NDA)	17.5 hectares (ha)	On the Outline Zoning Plan (OZP), the site is zoned “Other Specified Uses” (annotated suitable sites planned for “Research and Development” zones) (5.8 ha) and “Business and Technology Park” (11.7 ha).
2.	Hung Shui Kiu NDA	9 ha	Sites have been reserved for I&T-related development on the OZP. Detailed development plan of the sites is subject to further study.
3.	Yuen Long Industrial Estate Extension at Wang Chau	15 ha	The Hong Kong Science and Technology Parks Corporation (“HKSTPC”) commenced a study on the engineering and technical feasibility in February 2019 to explore the mode of development of the site to cater for the admission of high-tech industries.
4.	Site near the Liantang/Heung Yuen Wai Boundary Control Point	56 ha	The HKSTPC commissioned a consultant in end-2018 to carry out a study on the development vision of the site as a new industrial estate.

- (2) To cope with the society’s overall development, the Government will examine the most suitable use for each site in light of the latest situation as appropriate. In 2017, in response to the latest situation (including the development of the Lok Ma Chau Loop), the Innovation and Technology Bureau and the Development Bureau reviewed the various sites reserved for I&T development, and decided to release a total of 84.8 ha of reserved land, including 74 ha at Lung Kwu Tan and 10.8 ha at Tuen Mun Area 38. The Government will continue to review from time to time the demand for I&T land so as to dovetail with the development of relevant industries.

- End -

CONTROLLING OFFICER'S REPLY

ITB050

(Question Serial No. 3708)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title):

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the development of the Hong Kong-Shenzhen Innovation and Technology Park (the Park) at the Lok Ma Chau Loop, please advise on:

1. the expenditure on consultant's fees, total estimated expenditure on infrastructural works, deployment of human resources and timetable at various phases of the entire Park project in tabular form;
2. the estimated expenditure on superstructure construction and commencement of operation, and the timetable for land delivery;
3. whether the latest total estimated expenditure on construction works is available, given that the estimated funding required for the development of the entire Loop will be far more than \$20 billion?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 152)

Reply:

In consultation with the Development Bureau, the required information is consolidated and provided as follows:

Regarding the development of the Lok Ma Chau Loop (the Loop), the estimated expenditure (at money-of-the-day prices) and timetable at various phases of the relevant infrastructural works are as follows:

	Planning, detailed design and site investigation (\$ million)	Construction works (\$ million)	Estimated completion date of the works
Planning and works study	30.3(actual expenditure)	Not applicable	Not applicable
Advance Works	11.9	517.6	End of 2021
Main Works Package 1	268.3	Under review ^(Note)	Under review ^(Note)

Note: The construction cost of Main Works Package 1 and the estimated completion date of the works will be confirmed in the detailed design and site investigation.

The Civil Engineering and Development Department deployed 5.5 professional staff for the Loop development project in 2018-19, and will deploy 8.5 professional staff in 2019-20. There are also directorate officers overseeing this project as well as supporting technical and clerical staff.

The Government set aside \$20 billion to support the first phase development of the Hong Kong-Shenzhen Innovation and Technology Park (the Park) in the Loop for, inter alia, site formation, provision of infrastructure, construction of superstructure and initial operation. Regarding site formation and infrastructural works, the construction of the Advance Works for the development of the Loop commenced in June 2018, and our target is to make the first batch of land parcels available by 2021 for Phase 1 superstructure development of the Park. The detailed design and site investigation of Main Works Package 1 also commenced in September 2018, and are expected to be completed by phases by early 2023. The construction cost of Main Works Package 1 will be confirmed in the relevant detailed design and site investigation. We will seek funding approval from the Legislative Council for the first batch of projects for the Main Works and construction of the first batch of buildings of the Park in a timely manner.

Since the Loop is a sizable undeveloped land without any infrastructure, development of the Loop into the Park is a large-scale and complex project. The \$20 billion reserve fund earmarked by the Government is only used to support the first phase development of the Park. The total expenditure on the development of the Loop will depend on various factors, such as the specific planning of the Park, user requirements, site formation and detailed design of the infrastructure, etc. We expect the funding required for the development of the Loop as a whole will far exceed \$20 billion.

The Hong Kong-Shenzhen Innovation and Technology Park Limited is conducting a Master Planning Study and a Business Model and Business Planning Study on the development of the Park, which are expected to be completed in the first half of 2019. We will make reference to the findings of the studies in formulating the development strategy and planning of the Park, and further estimate the cost required for developing the Loop.

- End -

CONTROLLING OFFICER'S REPLY**ITB051****(Question Serial No. 3709)**Head: (135) Government Secretariat: Innovation and Technology BureauSubhead (No. & title): ()Programme: (2) Innovation and TechnologyControlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)Director of Bureau: Secretary for Innovation and TechnologyQuestion:

Please set out the details and estimated provision of the studies conducted by consultancy firms or research institutes commissioned by the Innovation and Technology Bureau and the departments under its purview for the purpose of formulating and assessing policies in 2018-19 and 2019-20 (Estimates) in the following format.

Commencement date of the study	Title of the study	Content and objective	Progress of the study (under planning/in progress/completed)	Name of consultant	Mode of award (tender/quotation/others (please specify))	Expenditure (\$)	Have reports been made public? If not, what are the reasons?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 153)Reply:

In 2018-19 and 2019-20, the Innovation and Technology Bureau and the departments under its purview have not commissioned/no plan to commission consultancy firms or research institutes to conduct studies for the purpose of formulating and assessing policies.

- End -

CONTROLLING OFFICER'S REPLY

ITB052

(Question Serial No. 3711)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the multi-functional smart lampposts pilot scheme to be implemented by the Government, under which around 400 traditional lampposts in Central/Admiralty, Wan Chai/Causeway Bay, Tsim Sha Tsui and Kwun Tong will be replaced with smart lampposts, will the Government inform this Committee of the following:

- (1) the work progress, timetable, tenders, relevant expenditure and manpower of the pilot scheme; and
- (2) details of the scheme concerning the instant collection and sharing of city data, the types of data collected and the duration of data retention by the Government with a breakdown by type of data?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 155)

Reply:

The requested information is provided below:

- (1) Under the “Multi-functional Smart Lampposts” pilot scheme, the Office of the Government Chief Information Officer (OGCIO) in collaboration with the Highways Department (HyD) will install about 400 new lampposts with smart devices in selected urban locations. The procurement of equipment for some 50 lampposts under the first phase has been basically completed, and the lampposts will come into operation progressively before mid-2019. The remaining some 350 lampposts will be installed by phases, with all the works expected to be completed in 2021-22. The estimated expenditure of the whole project, including works and smart devices, is about \$272 million. For works (including smart devices) and operation (including daily operation and repair and maintenance of lampposts) of the pilot scheme, the estimated expenditure for 2019-20 is \$48 million and \$7.15 million respectively. Under the pilot scheme, 13 time-limited civil service posts will be created in the Environmental Protection Department (EPD), the HyD and the Transport Department (TD), whereas

the manpower required by the OGCIO in implementing the pilot scheme will be met by internal deployment.

- (2) “Multi-functional Smart Lampposts” will collect various real-time city data to enhance city management and public services.
- (a) For meteorology, the Hong Kong Observatory will collect real-time meteorological and related data at district level, including temperature, humidity, wind speed and direction, rainfall amount, UV index, etc. through meteorological sensors to strengthen meteorological monitoring/forecasting at district level.
 - (b) For environmental protection, the EPD will collect real-time air quality data at district level and facilitate relevant enforcement actions against illegal dumping of construction wastes through air quality sensors and surveillance cameras respectively.
 - (c) For traffic, the TD will collect real-time traffic data, including traffic speed, vehicle types and traffic flow, and monitor traffic conditions with traffic detectors and surveillance cameras so as to take prompt actions in response to different traffic conditions and incidents.
 - (d) For tourism, the Tourism Commission will make use of the data collected by smart lampposts to provide the travel industry/travel agents with district-based traffic messages or alerts to help them plan routes that avoid congested areas for bringing better travel experience to visitors in Hong Kong.
 - (e) For positioning services, the Lands Department will provide accurate positioning services by installing Bluetooth transmitters and making use of Radio Frequency Identification (RFID) technology and geographic QR codes to facilitate the provision of government services and development of related applications by the industry, such as providing the public and tourists with information on nearby public facilities.

City data collected by “Multi-functional Smart Lampposts” will be provided for free via the “data.gov.hk portal”, allowing the public and the industry to use such data to develop more innovative applications. The relevant departments will decide the duration of data retention taking into account of the types and usage of different data.

- End -

CONTROLLING OFFICER'S REPLY

ITB053

(Question Serial No. 3712)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the support for the Committee on Innovation, Technology and Re-industrialisation (the Committee), please advise

- (1) the number of meetings convened, issues discussed and attendance rate of each meeting since the establishment of the Committee, and whether minutes of the meetings are available and open to the public; the number of relevant meetings convened, issues discussed and attendance rate of each meeting for the working groups (if any), and whether minutes of the meetings are available and open to the public (please set out the details of the above items in tabular form);
- (2) the work plan and schedule for 2019-20. If such information is not available, what are the reasons?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 156)

Reply:

A consolidated reply to the 2 parts of the question is as follows:

Since its establishment in April 2017, the Committee on Innovation, Technology and Re-industrialisation (“the Committee”) has convened a total of 8 meetings. The attendance rate of members is over 80% on average. The Committee discussed the latest scene of innovation and technology (“I&T”) development in Hong Kong and different I&T-related topics, including establishment of research clusters, promotion of re-industrialisation, enhanced tax deduction for research and development (“R&D”) expenditure, attracting overseas R&D institutions to Hong Kong, research work in the higher education sector,

nurturing I&T talents, the Technology Talent Admission Scheme, the Talent List, supporting the development of start-ups in Hong Kong, the Smart City Blueprint for Hong Kong, the open data policy, the Government's pro-innovation procurement policy, development of the e-sports industry and electronic payment, etc. The Committee plans to convene 4 meetings in 2019-20 to continue to advise the Government on matters relating to the promotion of I&T development and re-industrialisation in Hong Kong.

- End -

CONTROLLING OFFICER'S REPLY

ITB054

(Question Serial No. 3713)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the work of the Smart City Office, led by a permanent Administrative Officer Staff Grade C post in the Innovation and Technology Bureau and comprising a team of 5 non-directorates, please advise on the specific work of the office in 2018-19, the estimated expenditure and work plans for 2019-20, and whether key performance indicators will be drawn up for various initiatives of the Smart City Blueprint to monitor their implementation progress and effectiveness?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 120)

Reply:

The requested information is as follows:

In April 2018, the Innovation and Technology Bureau (ITB) established the Smart City Office (the Office) to coordinate the policies and measures set out in the *Smart City Blueprint for Hong Kong* (the *Blueprint*) and to provide secretariat support for the Steering Committee on Innovation and Technology. The specific work of the Office in 2018-19 includes: (1) coordinating and monitoring the overall implementation and progress of the *Blueprint*, such as launching the Faster Payment System in September 2018, promulgating a new open data policy in October 2018, and introducing a pro-innovation government procurement policy in April 2019; and (2) overseeing the work of the Office of the Government Chief Information Officer in planning and implementing several smart city infrastructure projects, including electronic identity (eID), Multi-functional Smart Lampposts, Next Generation Government Cloud and Big Data Analytics Platform (the Platform), and the enhancement of public Wi-Fi services. In May 2018, the Finance Committee also approved a total provision of \$645 million for eID and the Platform.

In 2019-20, the ITB has earmarked \$6.78 million for the expenditure on the emoluments of

the Office (including 1 Administrative Officer Staff Grade C post and 6 non-directorate posts). Other operating expenditure will be met by internal resources of the ITB. We do not have a separate breakdown for the relevant expenditure. The Office will continue to coordinate with various bureaux and departments (B/Ds) and monitor various smart city development measures, including the progress of the opening up of more datasets by B/Ds under the new open data policy, and the establishment of the new Smart Government Innovation Lab in April 2019 to promote the adoption of information technology by B/Ds.

Regarding the implementation of various measures in the *Blueprint*, the relevant B/Ds will draw up the required financial and manpower estimates and the relevant progress targets.

- End -

CONTROLLING OFFICER'S REPLY**ITB055****(Question Serial No. 1678)**Head: (135) Government Secretariat: Innovation and Technology BureauSubhead (No. & title): (001) SalariesProgramme: (2) Innovation and TechnologyControlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)Director of Bureau: Secretary for Innovation and TechnologyQuestion:

The establishment of the Innovation and Technology Bureau as at 31 March 2019 will be 178 posts. It is expected that there will be an increase of 4 posts in 2019-20. In this connection, please advise this Committee of the respective types, ranks, salaries, allowances and job nature of the 4 new posts.

Asked by: Hon NG Wing-ka, Jimmy (LegCo internal reference no.: 73)Reply:

Details of the 4 new posts created in the Innovation and Technology Bureau in 2019-20 are as follows:

Rank	No.	Respective salary band (HK\$)	Allowances	Work nature
Senior Management Services Officer	1	70,590-105,175	Determined in accordance with the employment terms of the relevant officers, the application criteria and the existing civil service mechanism.	To co-ordinate Youth Portal's work in enhancing its support for youth development, including enriching the relevant content, improving user experience and strengthening the marketing
Management Services Officer I	1	55,705-70,090		

Rank	No.	Respective salary band (HK\$)	Allowances	Work nature
				efforts.
Analyst/Programmer I	1	55,705-70,090		To enhance administrative support.
Assistant Clerical Officer	1	14,780-30,165		
Total	4			

- End -

CONTROLLING OFFICER'S REPLY

ITB056

(Question Serial No. 0225)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Financial Secretary stated in paragraph 71 of his Budget Speech that Hong Kong enjoyed a unique edge in the area of research and development (R&D). By uniqueness, it should mean an edge enjoyed by nowhere else but Hong Kong alone. However, in the section on promotion of R&D, apart from allocating additional resources and establishing clusters, the Financial Secretary did not elaborate on the unique advantages of Hong Kong. Extra resources aside, what are the unique advantages of Hong Kong in R&D promotion?

Asked by: Hon POON Siu-ping (LegCo internal reference no.: 24)

Reply:

With our excellent universities and widely recognised outstanding scientists, Hong Kong has strong research and development (“R&D”) capabilities, which are definitely our unique advantages in developing R&D. 4 of our universities are among the top 100 in the world, with high global rankings in individual science and engineering-related subjects, including computer science, electrical and electronics engineering as well as mechanical engineering. Local universities as a whole ranked third globally in terms of producing the most highly cited and impactful research on artificial intelligence. In addition, under “One Country, Two Systems”, Hong Kong’s high degree of internationalisation, sound legal system and intellectual property protection regime, excellent professional services, well-developed information technology industries and infrastructure and so forth, will greatly facilitate technological exchange and co-operation at international level. Besides, with a sizable market and capabilities in commercialising R&D results and advanced manufacturing, the Guangdong-Hong Kong-Macao Greater Bay Area provides Hong Kong with the opportunity to achieve synergistic and complementary development, creating favourable conditions for Hong Kong to pool together innovation resources from the Mainland and across the globe, thereby developing a comprehensive industry chain for the commercialisation of scientific and technological achievements.

The Government has allocated substantial resources for rolling out a series of innovation and technology (“I&T”) initiatives, including: the establishment of InnoHK Clusters; provision of super tax deduction for eligible R&D expenditure; and introduction of the Technology Talent Admission Scheme, etc. These measures provide impetus to the local I&T ecosystem, enabling R&D activities to flourish in Hong Kong.

- End -

CONTROLLING OFFICER'S REPLY

ITB057

(Question Serial No. 2248)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: Not Specified

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

It was stated in the Chief Executive's 2017 Policy Address that the percentage of the expenditure on research and development (R&D) in GDP would increase to 1.5% within the tenure of the current-term Government. Please inform this Committee of:

1. the proportion of our investments in scientific research in Hong Kong's GDP in the past 3 years; and
2. the measures and plans of the Government to increase the expenditure on R&D.

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 191)

Reply:

Regarding the two parts of the question, the required information is provided as follows:

- (1) According to the Hong Kong Innovation Activities Statistics released by the Census and Statistics Department, the gross domestic expenditure on research and development ("GERD") as a ratio to the Gross Domestic Product ("GDP") in 2015, 2016 and 2017 were 0.76%, 0.79% and 0.80% respectively.
- (2) In the Policy Address delivered in October 2017, the Chief Executive proposed to double the GERD as a ratio to GDP to 1.5% by 2022 and gradually reverse the ratio of public sector expenditure versus private sector expenditure on research and development ("R&D") from government-led to public-private participation, which is more sustainable. To achieve this goal, we gradually increase public R&D investment, while encouraging private enterprises to conduct more R&D activities.

On public R&D investment, the various schemes under the Innovation and Technology

Fund (“ITF”) finance projects that can contribute to innovation and technology (“I&T”) upgrading and development of industries in Hong Kong, encourage private enterprises to invest in R&D and applied technologies and nurture I&T talent for conducting R&D activities. In July 2018, the Finance Committee of the Legislative Council approved an injection of \$10 billion into the ITF to support its continued operation.

With regard to tertiary institutions, having accepted the recommendations made by the Task Force on Review of Research Policy and Funding in its report, the Government has committed to injecting \$20 billion into the Research Endowment Fund to increase its total capital amount to \$46 billion so as to substantially increase research funding for tertiary institutions; and setting up a Research Matching Grant Scheme for local degree-awarding institutions, providing a total of \$3 billion matching grant over 3 years to encourage the provision of R&D funding and donations to the higher education sector by individuals and private organisations.

As regards the private sector, to encourage more enterprises to conduct R&D activities locally, we have amended the law to provide enhanced tax deduction under a two-tier deduction regime for qualifying R&D expenditure incurred by enterprises from 1 April 2018. The deduction will be 300% for the first \$2 million of the aggregate amount of qualifying R&D expenditure of an enterprise and 200% for the remaining amount. There is no cap on the amount of tax deduction.

In addition, the Government has allocated \$10 billion for setting up 2 research clusters at the Hong Kong Science Park to attract top-notch local, Mainland and overseas R&D institutions to conduct more collaborative research in Hong Kong. A total of \$10.3 billion has also been allocated to the Hong Kong Science and Technology Parks Corporation (“HKSTPC”) and the Hong Kong Cyberport Development Holdings Limited to develop R&D-related facilities and enhance their incubation programmes and support for technology enterprises. These measures will induce further investment in R&D.

The Government also actively promotes “re-industrialisation” by developing advanced manufacturing industries that are based on new technologies and smart production to stimulate demand for R&D. The Government has proposed to launch the \$2 billion Re-industrialisation Funding Scheme to subsidise manufacturers, on a matching basis, to set up smart production lines in Hong Kong. We have also proposed to provide an additional allocation of \$2 billion for HKSTPC to build manufacturing facilities required by dedicated manufacturing sector in industrial estates.

- End -

CONTROLLING OFFICER'S REPLY

ITB058

(Question Serial No. 4034)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the Innovation and Technology Bureau (ITB)'s promotion of e-sports, will the Hong Kong Special Administrative Region Government inform this Committee of the following:

1. In addition to the allocation of \$100 million to Cyberport, the details of ITB's work in developing e-sports infrastructure and facilities, and relevant manpower and expenditure involved in the past 2 years;
2. In addition to the allocation of \$100 million to Cyberport, the details of ITB's work in nurturing talent and developing technology for e-sports, and relevant manpower and expenditure involved in the past 2 years

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 101)

Reply:

The information required is consolidated as follows:

The Government's support to the development of e-sports is mainly provided through an injection of \$100 million into Cyberport in 2018-19. Of the \$100 million, \$50 million would be used for setting up a dedicated e-sports competition venue in the Cyberport Arcade to provide the industry with a suitable and well-equipped venue. The works are expected to be completed by mid-2019. The remaining \$50 million would be used for supporting the development of the e-sports industry, including organising local and regional competitions and major events, training programmes and promotional activities.

Apart from the funding injection into Cyberport, the Innovation and Technology Bureau is

also actively involved in the formulation of regulatory guidelines for the operation of e-sports venues to help the industry understand the relevant licensing requirements. As the work is carried out with existing manpower, no additional expenditure is involved.

- End -

CONTROLLING OFFICER'S REPLY

ITB059

(Question Serial No. 4035)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the work to foster the development of a Smart Government, please provide in table form the following information:

1. details of the technology projects launched in the past 3 years, including the names of the Government departments which have launched these projects, the number and progress of projects, and the manpower and expenditure involved;
2. the names and the number of Government departments which decided not to launch technology projects after a review in the past 3 years and the manpower and expenditure involved; and
3. the names and the number of Government departments which did not conduct a review on the need to launch technology projects in the past 3 years and the manpower and expenditure involved.

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 102)

Reply:

The information required is provided as follows:

- (1) Technology and information technology projects of the Government are mainly funded under TechConnect (block vote) and Capital Works Reserve Fund Head 710 – Computerisation.

In mid-2017, the Innovation and Technology Bureau (ITB) set up the TechConnect (block vote) to support government departments in planning and implementing technology projects for enhancing their operational efficiency and

improving public services through the use of technology. Details of the 48 technology projects supported by TechConnect (block vote) are set out in **Annex 1**. In general, departments implement projects with existing manpower and no additional staffing is involved.

In the past 3 financial years, 20 major projects were supported under Head 710 (individual subheads) (costing over \$10 million) involving 12 departments with a total estimate of about \$660.1 billion. The project details are set out in **Annex 2**. In the past 3 financial years, over 700 projects were supported under Head 710 – Computerisation (Block Allocation) (costing less than \$10 million) with a total estimate of about \$4.1 billion. Details are set out in **Annex 3**.

Apart from the above projects approved under TechConnect (block vote) and Head 710 – Computerisation, departments also adopt relevant technologies in enhancing their services and facilities from time to time. However, we do not have the relevant information.

(2) and (3) We do not keep records of the names and the number of government departments which decided in the past 3 financial years not to launch technology projects after a review and those which did not conduct a review on the need to launch technology projects.

Technology Projects Supported under TechConnect (block vote)

Technology Projects Supported in 2018-19				
Department	Project Title	Technologies Adopted	Estimated Expenditure (\$ million)	Rollout Date (tentative)
Agriculture, Fisheries and Conservation Department	Pilot project of real-time Phytoplankton Taxa Monitoring System	Internet of Things/ Sensors	5.4	Q2 2020
Buildings Department	The use of advanced technological testing methods to assist water seepage investigation in buildings	Microwave tomography/ Infrared Scanning & Imaging	5.0	Rolled out in Q2 2018
Customs and Excise Department	“Smart Crossing” - deployment of Radio-frequency identification (RFID) technology on the recognition of licence plate numbers of cross-boundary private cars	Radio-frequency Identification	9.0	Rolled out in Q4 2018
	A study on the development of a “Cargo Big Data System”	Big Data/ Artificial Intelligence	9.8	Q2 2020
Civil Engineering and Development Department	Provision of applications to promote smart mobility, sustainable leisure and recreation information of Lantau	Geographic Information System / Global Positioning System / Augmented Reality	0.5	Q2 2019
Department of Health	Feasibility study for the implementation of a Digitalised Chinese Medicines Herbarium	3D Scanning & Modelling	1.9	Completed in Q4 2018
Drainage Services Department	Provision of ultrasonic sludge pre-treatment facilities at the Tai Po Sewage Treatment Works	Advanced Environmental Technology	9.7	Q3 2020
	Smart Sewerage Monitoring System	Internet of Things/ Sensors/ Geographic Information System/ Global Positioning System	5.5	Q3 2019
	Retrofitting the SANI small scale plant at the	Advanced Environmental	9.6	Q3 2020

Technology Projects Supported in 2018-19				
Department	Project Title	Technologies Adopted	Estimated Expenditure (\$ million)	Rollout Date (tentative)
	Shatin Sewage Treatment Works	Technology		
	Pilot study to investigate rainfall infiltration in existing sewerage systems in urban area	Internet of Things/ Sensors/ Geographic Information System/ Global Positioning System	2.0	Q1 2020
Energizing Kowloon East Office, Development Bureau	To conduct a feasibility study to monitor illegal parking / stopping by utilising video analytics and to conduct a pilot trial at Kowloon East	Artificial Intelligence/ Machine Learning/ Video Analytics	8.0	Q2 2019
Environmental Protection Department	Air pollution sensor practicality trial	Internet of Things / Sensors	7.6	Q2 2019
Housing Department	Develop the technology to produce plans for statutory submission from the Building Information Modelling	Building Information Modelling	8.0	Q3 2020
Hong Kong Observatory	Integrated urban weather monitoring and data-sharing platform for smart cities	Internet of Things / Sensors	8.2	Q2 2020
Hong Kong Police Force	E-statement (Speech Recognition) and Data Mining System (EDMS)	Big Data/ Speech Recognition	9.5	Q4 2019
	Radio-frequency identification (RFID) system for management of affected people during major incidents	Internet of Things/ Radio-frequency Identification	3.4	Q2 2020
	Video Explorer	Video Analytics	9.9	Q1 2019
	Automation of Cybercrime Capturing, Categorization and Correlation (AC4)	Big Data/ Artificial Intelligence	6.8	Q4 2019
	Advanced Image Processing System (Project AIPS)	Video Analytics	6.7	Q4 2019
Leisure and Cultural Services Department	Non-invasive conservation studies of art and antiquities with innovative imaging technologies	X-Ray Scanning & Imaging	6.5	Q1 2021
	Non-invasive conservation studies of cultural heritage	X-Ray Scanning & Imaging	9.0	Q1 2021

Technology Projects Supported in 2018-19				
Department	Project Title	Technologies Adopted	Estimated Expenditure (\$ million)	Rollout Date (tentative)
	with X-ray computed tomography			
Office of the Government Chief Information Officer	Pilot Cyber Security Information Sharing Partnership Programme	Big Data/ Artificial Intelligence	8.5	Rolled out in Q3 2018
Water Supplies Department	Provision of in-line hydropower harnessing device for Water Intelligent Network	Advanced Engineering Technology	2.0	Q2 2020
	Study on anti-corrosion and anti-biofouling coating for enhancing water pump efficiency	Advanced Engineering Technology	1.1	Q3 2019

Technology Projects Supported in 2019-20				
Department	Project Title	Technologies Adopted	Estimated Expenditure (\$ million)	Rollout Date (tentative)
Civil Engineering and Development Department	Development of an automated system for concrete cube testing	Advanced Engineering Technology/ Artificial Intelligence/ QR Code	9.7	Q1 2021
Correctional Services Department	Health Signs Monitoring System for Persons in Custody requiring additional medical observation and care in hospitals of Stanley Prison (SP) and Tai Lam Centre for Women (TLCW), geriatric ward and sickbay of Siu Lam Psychiatric Centre (SLPC) and certain hall(s) in SP	Smart wristband/ Bluetooth	9.2	Q2 2020
	Video Analytic Monitoring System for behaviour of Persons in Custody in Pik Uk Prison (PUP)	Artificial Intelligence/ Machine Learning/ Video Analytics	9.6	Q2 2021
Customs and Excise Department	Feasibility study on Single E-lock enhancement	E-lock/ Augmented Reality/ Geographic Information	8.9	Q4 2021

Technology Projects Supported in 2019-20				
Department	Project Title	Technologies Adopted	Estimated Expenditure (\$ million)	Rollout Date (tentative)
		System / Global Position System		
Development Bureau	Application of QR Code in tree labelling	QR code	7.0	Q4 2020
Tree Management Office of Development Bureau and Architectural Services Department	Application of optical fiber sensing technology in monitoring of masonry retaining walls, stonewall trees and large trees	Sensors / Advanced Engineering Technology	8.0	Q2 2021
Department of Health	Developing Smart Fever Screening System for boundary control points in Hong Kong	Artificial Intelligence / Machine Learning / Video Analytics / IR Imaging	7.0	Q1 2020
Drainage Services Department	Trial use of robots for inspection and desilting of drains, box culverts, decked nullahs and sewers	Robotics/ Advanced Engineering Technology	9.8	Q4 2019
	Intelligent Pressure Transient Monitoring System for Rising Mains	Advanced Engineering Technology/ Sensor for pressure transient monitoring	2.2	Q2 2019
	Applying smart robotic underwater vehicle (ROV) for ensuring safe and effective maintenance of wet wells at sewage treatment plants	Imaging Sonar/ Digital Terrain Models/ Robotics/ Global Position System	8.5	Q2 2021
Electrical and Mechanical Services Department	Study on Immersion Cooling System for data centres	Advanced Environmental Technology	1.4	Q4 2019
	Study of noise signature of lifts and escalators using optical fiber Bragg grating sensing technology	Sensors/ Advanced Engineering Technology	1.2	Q3 2019
Fire Services Department	Implementation of logistics solution of dangerous drugs for patients with certain medical conditions	Radio-frequency Identification/ Video Analytics/ Internet of Things	9.7	Q1 2021
Highways Department	Development of lux logger with GPS function	Lux Logging/ Global Position	1.5	Q3 2020

Technology Projects Supported in 2019-20				
Department	Project Title	Technologies Adopted	Estimated Expenditure (\$ million)	Rollout Date (tentative)
		System/ Advanced Engineering Technology		
Hong Kong Observatory	Development of a smart analytics platform for weather related Big Data to support forecasting and alerting of high-impact weather hazards	Artificial Intelligence/ Big Data/ Cloud Computing	9.6	Q1 2022
Hong Kong Police Force	Fraud Analytic Toolkit for Social Media (Project FANTOM)	Artificial Intelligence/ Web Crawling	9.1	Q3 2020
	Predictive Email Scam Analytic (PESA) System	Big Data / Cloud Computing	5.6	Q2 2021
Lands Department	Pilot project on creation of 3D indoor maps for smart city	3D Modelling/ Geographic Information System	5.5	Q3 2019
Leisure and Cultural Services Department	Tech Experiential Learning Project	Augmented Reality /Virtual Reality	9.4	Q4 2020
Office of the Government Chief Information Officer	Pilot application on blockchain technology	Blockchain	4.9	Q4 2019
Transport Department	Pilot Intelligent Traffic Signal System	Sensors/ Video Analytics	8.1	Q1 2021
	Trial of geo-fencing technology on vehicles	Artificial Intelligence/ Sensors/ Video Analytics/ Geographic Information System / Global Position System	2.5	Q3 2020
Water Supplies Department	Robotic in-line inspection of water mains	Robotics/ Artificial Intelligence/ Sensors	9.0	Q3 2021
	Using Unmanned Surface Vessel (USV) System for water quality monitoring and sampling at impounding reservoirs	Geographic Information System / Global Position System / Advanced	4.0	Q4 2019

Technology Projects Supported in 2019-20				
Department	Project Title	Technologies Adopted	Estimated Expenditure (\$ million)	Rollout Date (tentative)
		Environmental Technology		

**Major Computerisation Projects Supported
under Head 710 (individual subheads) in the Past 3 Financial Years**

2016-17:

Bureau/ department	Project	Estimate (\$ million)
Correctional Services Department	Replacement of Core Information Technology Systems with the Integrated Custodial and Rehabilitation Management System	352.8
Customs and Excise Department	Customs and Excise Information and Risk Management System	38.0
Government Logistics Department	Replacement of the Procurement and Contract Management System and the Unallocated-Store Program	72.7
Hong Kong Police Force	Replacement and Upgrade of the Information Technology Infrastructure and Applications of the Hong Kong Police Force	396.8
Hong Kong Police Force	Replacement of the Infrastructure Platform for the Police Operational Nominal Index Computer System and the Criminal Intelligence Computer System	81.7
Immigration Department	Computer Systems at Control Points	168.5
Immigration Department	Next Generation Electronic Passport System	357.8
Office of the Government Chief Information Officer	Wi-Fi Connected City	474.7
Transport Department	Upgrading of the Transport Information System of the Transport Department	74.0
	(Total)	2,016.9

2017-18:

Bureau/ department	Project	Estimate (\$ million)
Leisure and Cultural Services Department	Development of New Intelligent Sports and Recreation Services Booking and Information System	499.8
Office of the Government Chief Information Officer	Centrally Managed Messaging Platform	252.2
	(Total)	752.0

2018-19:

Bureau/ department	Project	Estimate (\$ million)
Buildings Department	Electronic Submission Hub	214.4
Census and Statistics Department	Information Technology Equipment and Services for the 2021 Population Census	202.7
Department of Health	Information Technology Enhancement Project of the Department of Health	1,057.1
Immigration Department	Next Generation Application and Investigation Easy Systems	453.0
Leisure and Cultural Services Department	Development of Smart Library System	877.3
Office of the Government Chief Information Officer	Digital Transformation for Agile Delivery of e-Government Services (Next Generation Government Cloud Infrastructure and Big Data Analytics Platform)	533.3
Office of the Government Chief Information Officer	Electronic Identity (eID)	112.0
Social Welfare Department	Redevelopment of Client Information System	316.9
Social Welfare Department	Redevelopment of Service Performance Management Information System	65.4
	(Total)	3,832.1

**Number and Estimated Expenditure of Computerisation Projects Supported
under Head 710 Subhead A007GX (Block Allocation) in the Past 3 Financial Years**

Bureau/ department	Number of supported projects				Estimated expenditure of supported projects (\$ million)			
	2016-17	2017-18	2018-19 (up to end February 2019)	Aggregate number for the 3 years	2016-17	2017-18	2018-19 (up to end February 2019)	Aggregate estimates for the 3 years
Administration Wing	5	2	3	10	24.1	10.5	14.0	48.5
Agriculture, Fisheries and Conservation Department	4	2	3	9	6.8	13.9	20.0	40.7
Architectural Services Department	3	6	1	10	22.4	21.5	9.2	53.1
Audit Commission	1	1	-	2	1.1	4.9	-	6.0
Auxiliary Medical Service	1	1	1	3	0.8	2.1	6.2	9.0
Buildings Department	5	9	1	15	27.8	68.3	9.6	105.7
Census and Statistics Department	2	7	2	11	11.5	48.8	8.2	68.6
Chief Executive's Office	2	1	1	4	2.1	2.2	3.9	8.2
Chief Secretary for Administration's Office	-	-	2	2	-	-	17.1	17.1
Civil Aid Service	2	-	1	3	2.6	-	5.7	8.3
Civil Aviation Department	-	2	2	4	-	10.4	7.7	18.1
Civil Engineering and Development Department	3	5	4	12	7.1	37.6	24.1	68.9
Civil Service Bureau	3	5	6	14	14.5	28.7	30.2	73.4
Commerce and Economic Development Bureau	6	8	8	22	50.5	21.3	30.5	102.2
Constitutional and Mainland Affairs Bureau	8	2	7	17	9.1	1.1	19.3	29.6
Correctional	-	6	2	8	-	30.3	19.3	49.6

Bureau/ department	Number of supported projects				Estimated expenditure of supported projects (\$ million)			
	2016-17	2017-18	2018-19 (up to end February 2019)	Aggregate number for the 3 years	2016-17	2017-18	2018-19 (up to end February 2019)	Aggregate estimates for the 3 years
Services Department								
Customs and Excise Department	9	7	7	23	50.0	56.8	58.6	165.5
Department of Health	14	11	8	33	74.1	52.1	55.3	181.5
Department of Justice	6	3	2	11	44.1	16.4	19.5	80.0
Development Bureau	5	5	2	12	21.1	21.3	8.2	50.6
Drainage Services Department	3	3	1	7	10.9	15.9	9.0	35.9
Education Bureau	2	4	6	12	18.4	28.4	48.1	94.9
Efficiency Office	1	4	3	8	2.6	30.9	20.9	54.4
Electrical and Mechanical Services Department	-	3	1	4	-	14.5	1.8	16.2
Environmental Protection Department	3	-	3	6	9.2	-	14.4	23.6
Financial Services and the Treasury Bureau	2	3	1	6	7.5	12.5	2.0	22.0
Fire Services Department	2	4	1	7	19.2	30.0	8.4	57.6
Food and Environmental Hygiene Department	8	2	5	15	52.3	13.4	40.2	105.9
Food and Health Bureau	6	2	5	13	39.8	1.3	31.2	72.3
Government Flying Service	-	-	2	2	-	-	2.4	2.4
Government Laboratory	3	2	2	7	14.7	6.8	13.1	34.6
Government Logistics Department	5	1	2	8	24.7	9.7	7.0	41.4
Government Property Agency	3	2	-	5	19.9	10.8	-	30.7
Highways Department	4	3	1	8	26.7	8.4	4.8	39.9
Home Affairs	1	2	-	3	0.8	17.6	-	18.4

Bureau/ department	Number of supported projects				Estimated expenditure of supported projects (\$ million)			
	2016-17	2017-18	2018-19 (up to end February 2019)	Aggregate number for the 3 years	2016-17	2017-18	2018-19 (up to end February 2019)	Aggregate estimates for the 3 years
Bureau								
Home Affairs Department	5	2	2	9	13.4	13.1	13.5	39.9
Hong Kong Observatory	3	6	5	14	20.3	20.3	29.5	70.1
Hong Kong Police Force	6	5	4	15	39.1	41.9	30.3	111.3
Housing Department	-	1	-	1	-	2.4	-	2.4
Immigration Department	6	6	1	13	43.9	45.3	10.0	99.1
Independent Commission Against Corruption	-	-	3	3	-	-	19.6	19.6
Information Services Department	2	1	2	5	2.0	5.0	13.5	20.5
Inland Revenue Department	6	9	10	25	34.8	77.5	69.3	181.6
Innovation and Technology Bureau	1	-	-	1	8.2	-	-	8.2
Innovation and Technology Commission	1	2	2	5	4.7	9.5	17.8	32.0
Intellectual Property Department	1	1	2	4	9.9	4.7	8.4	23.0
Invest Hong Kong	2	3	-	5	2.1	7.4	-	9.5
Joint Secretariat for the Advisory Bodies on Civil Service and Judicial Salaries and Conditions of Service	-	-	1	1	-	-	0.2	0.2
Labour and Welfare Bureau	1	1	-	2	2.0	5.6	-	7.6
Labour Department	6	5	3	14	40.2	26.4	16.5	83.1
Lands Department	8	7	8	23	63.6	55.6	72.8	192.0
Legal Aid Department	3	2	4	9	11.8	3.3	23.8	38.9

Bureau/ department	Number of supported projects				Estimated expenditure of supported projects (\$ million)			
	2016-17	2017-18	2018-19 (up to end February 2019)	Aggregate number for the 3 years	2016-17	2017-18	2018-19 (up to end February 2019)	Aggregate estimates for the 3 years
Leisure and Cultural Services Department	12	10	5	27	97.1	77.3	44.3	218.6
Marine Department	6	5	4	15	39.7	19.4	23.0	82.1
Office for Film, Newspaper and Article Administration	-	1	1	2	-	5.1	2.2	7.3
Office of the Government Chief Information Officer	25	15	16	56	171.4	99.8	109.5	380.7
Official Receiver's Office	1	2	-	3	3.1	14.9	-	18.1
Planning Department	5	1	5	11	27.9	7.8	36.9	72.6
Policy Innovation and Co-ordination Office	-	2	1	3	-	5.9	2.1	8.0
Public Service Commission	-	-	1	1	-	-	0.2	0.2
Radio Television Hong Kong	2	2	2	6	3.3	5.0	10.7	19.1
Rating and Valuation Department	4	3	1	8	16.2	8.9	9.9	34.9
Registration and Electoral Office	-	5	1	6	-	12.8	8.0	20.8
Security Bureau	1	1	3	5	9.2	1.6	9.6	20.3
Social Welfare Department	10	5	3	18	23.5	26.3	17.1	66.9
The Treasury	3	4	6	13	15.8	33.7	37.1	86.6
Trade and Industry Department	3	4	-	7	11.1	7.9	-	19.0
Transport and Housing Bureau	2	1	3	6	2.4	2.1	11.1	15.7
Transport Department	3	9	4	16	17.7	52.3	23.4	93.5
University Grants Committee Secretariat	1	3	-	4	0.7	10.8	-	11.6
Water Supplies Department	7	5	5	17	11.5	36.7	29.2	77.4

Bureau/ department	Number of supported projects				Estimated expenditure of supported projects (\$ million)			
	2016-17	2017-18	2018-19 (up to end February 2019)	Aggregate number for the 3 years	2016-17	2017-18	2018-19 (up to end February 2019)	Aggregate estimates for the 3 years
Working Family and Student Financial Assistance Agency	1	2	7	10	5.8	5.6	47.1	58.5
Total	259	249	211	719	1368.8	1,400.4	1,316.5	4,085.8

- End -

CONTROLLING OFFICER'S REPLY

ITB060

(Question Serial No. 4039)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (3) Efficiency Office

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the work of the Efficiency Office (EffO) to accelerate innovation across Government, please advise on:

- (1) in table form, details of the projects conducted by EffO in the past 3 years to accelerate innovation across Government and their progress, as well as the respective government departments, manpower and expenditure involved;
- (2) the total number of management staff working on accelerating innovation across Government in the past 3 years, as well as the ranks of these officers; and
- (3) in table form, the staff establishment and strength of the 1823 contact centre in each of the past 3 years, as well as the salary expenditure involved.

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 106)

Reply:

The information required is as follows :

- (1) & (2) Details of the projects conducted by the EffO in the past 3 years (i.e. 2016-2018) to accelerate innovation across bureaux/departments are set out in the attached table. Accelerating innovation across Government is one of the core areas of work of EffO, we do not have a separate breakdown on the staff establishment and the expenditure involved.

	Bureau/ Department Involved	Project Name	Project Scope
1.	Commerce and Economic Development Bureau	Consultancy Study to Deploy Design Thinking Approach in the Design of the Hong Kong Exhibition Area in the China International Import Expo	Design Thinking
2.	Development Bureau	Implementation of the Tree Management Information System	Application of Information Technology
3.	Development Bureau	Consultancy Study on Development Strategy of a Common Spatial Data Infrastructure	Strategy Study
4.	Financial Services and the Treasury Bureau	Consultancy Study on Research on Public Procurement	Strategy Study
5.	Efficiency Office	Knowledge Management System	Application of Information Technology
6.	Highways Department	Enterprise Information Management Strategy Study for the Highways Department	Application of Information Technology
7.	Financial Services and the Treasury Bureau	Government Procurement Review	Strategy Study
8.	Office of the Government Chief Information Officer	Government Human Resources Management Services	Application of Information Technology
9.	University Grants Committee Secretariat	Enterprise Information Management Strategy Study for the University Grants Committee Secretariat	Application of Information Technology

(3) In the past 3 financial years, the staff establishment, strength and salary expenditure involved for 1823 are as follows:

	Establishment of Civil Servants	Strength of Civil Servants	Number of Non-Civil Service Contract Staff (including full-time staff and part-time staff (in full-time equivalent))	Salary Expenditure
2016-17	6	6	468	\$118 million
2017-18	6	6	456	\$124 million
2018-19	6	6	472	\$136 million

- End -

CONTROLLING OFFICER'S REPLY

ITB061

(Question Serial No. 4921)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the work of Phase 1 of the Hong Kong-Shenzhen Innovation and Technology Park at the Lok Ma Chau Loop, will the Government inform this Committee of:

1. the number of local organisations that the Innovation and Technology Bureau (ITB) met with, the number of meetings, and the manpower and expenditure involved for the above project in the past 2 years;
2. the number of Mainland government authorities and organisations that the ITB met with, the number of meetings attended, and the manpower and expenditure involved for the above project in the past 2 years;
3. the number of international organisations and foreign government authorities that the ITB met with, the number of meetings attended, and the manpower and expenditure involved for the above project in the past 2 years;
4. the details of the work commenced and the work completed by the ITB, and the manpower and expenditure involved for the above project in the past 2 years?

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 99)

Reply:

The information requested is consolidated as follows:

The construction of the Advanced Works of the Lok Ma Chau Loop commenced in June 2018 and the detailed design and site investigation of the Main Works Package 1 commenced in September 2018. Based on the current progress of the Advanced Works,

we target to make the first batch of land parcels available by 2021 for Phase 1 superstructure development of the Hong Kong-Shenzhen Innovation and Technology Park (the Park).

The Hong Kong-Shenzhen Innovation and Technology Park Limited (HSITPL) is conducting the Master Planning Study and Business Model and Business Planning Study for the planning and business development of the Park. The studies are expected to be completed in the first half of 2019. We will refer to the findings of the studies in formulating the planning and development strategy of the Park.

The development of the Park is one of the Government's major initiatives to promote innovation and technology development and develop Hong Kong as an international innovation and technology hub. We have been actively promoting to and maintaining liaison with various local, international and Mainland institutions and stakeholders. Take the Business Model and Business Planning Study as an example, in response to our request, the consultant has organised about 40 consultation sessions covering various public and private organisations and institutions from Hong Kong and the Mainland. As for the other liaison work, as they are part of the daily duties of the Innovation and Technology Bureau, they are undertaken by existing staff and there is no separate breakdown in this respect.

- End -

CONTROLLING OFFICER'S REPLY

ITB062

(Question Serial No. 3512)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

The aim of the Innovation and Technology Bureau (ITB) includes improving people's quality of life and one of its responsibilities is to foster smart city development. However, since the establishment of ITB, Hong Kong has not become a smart city and has even shown signs of regression. For example, the Caring and Sharing Scheme, which started to receive applications for \$4,000 in February this year, does not accept online submissions and even requires the public to return the forms in person or by post. On the other hand, the fare of all taxis and red minibuses in Hong Kong can only be paid in cash over the years, which has deviated from the objective of "smart city". Moreover, the media have reported that over 1 300 Government electronic forms still cannot be submitted electronically. In this connection, will the Government inform this Committee of the "realistic" policies or measures to be implemented by ITB in the new financial year to practically improve people's quality of life and allow them to enjoy the convenience brought by innovation and technology?

Asked by: Hon TSE Wai-chun, Paul (LegCo internal reference no.: 62)

Reply:

After consulting the relevant departments, the information required is provided as follows:

The Government released the *Smart City Blueprint for Hong Kong* (the *Blueprint*) in December 2017. The Blueprint covers more than 70 initiatives closely related to people's livelihood in 6 areas (Smart Mobility, Smart Living, Smart Environment, Smart People, Smart Government and Smart Economy). Concrete progress has been made in a number of initiatives. For example, we will provide an "Electronic Identity" (eID) to all local residents free of charge by mid-2020 for the use as a single digital identity in various online services. By then, eID will be adopted in 26 e-Government services, including application for or use of: Home Ownership Scheme, eTAX, renewal of driving licence, registration of

outbound travel information and registration of job seekers. By mid-2021, members of the public will be able to use eID to submit electronically almost all of the 3 000 or so government forms.

Moreover, the Office of the Government Chief Information Officer (OGCIO) will introduce artificial intelligence and chatbot functions to the GovHK portal in 2019 to facilitate searching of and access to e-Government services by the public. The 1823 call centre will also pilot this year the use of chatbot to handle public enquiries.

Regarding payments for public transport, the Transport Department will continue to encourage public transport operators to explore the use of other electronic payment systems in their public transport systems. The operators are generally open-minded towards the adoption of new electronic payment systems for fare collection. For instance, the MTR Corporation Limited plans to introduce QR Code in the ticketing system of its local networks as one of the means of fare payment by 2020. Some taxi operators have accepted electronic payment methods such as WeChat Pay, Alipay and O!ePay. A green minibus operator has introduced the “EasyGo” System (launched by Alipay) in its minibuses in January 2019, while franchised bus companies are also proactively exploring the adoption of various electronic payment systems (such as QR Code, Visa and MasterCard).

The ITB set up the TechConnect (block vote) in mid-2017 to support government departments in planning and implementing technology projects for enhancing their operational efficiency and improving public services. To date, the block vote has funded over 40 technology projects proposed by departments, many of which are closely related to the daily living of residents, such as the use of technology to improve the investigation of water seepage in buildings, strengthen integrated weather monitoring and enhance the efficiency of customs clearance for cross-boundary vehicles and cargoes. \$500 million was allocated to the block vote in 2018 to further promote technology adoption by departments, with a view to providing better services for the residents.

In addition, OGCIO will set up a “Smart Government Innovation Lab” in April 2019 and invite the industry to put forward proposals on information technology applications and product suggestions for various public services. Trials and proofs of technology will be arranged for suitable proposals to improve public services such as municipal services, crowd control, cargo clearance, etc. Besides, the Electrical and Mechanical Services Department has launched the online platform for innovation and technology (I&T) collaboration “E&M InnoPortal” in June 2018, with the aim of matching the needs of government departments for applying any new electrical and mechanical related technologies with I&T projects put up by start-ups.

- End -

CONTROLLING OFFICER'S REPLY

ITB063

(Question Serial No. 0483)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

The estimated expenditure for innovation and technology for 2019-20 is \$442.2 million. It is \$295.8 million higher than the revised expenditure for 2018-19 or a substantial increase of 202%. It is only explained that the increase is mainly due to the increased cash flow requirement for general non-recurrent items and increased provision for general departmental expenses. Will the Government explain the specific reasons for the substantial allocation which is double the provision for the previous year and the details of allocation of resources?

Asked by: Hon WONG Ting-kwong (LegCo internal reference no.: 36)

Reply:

The estimated expenditure under Programme (2) of the Innovation and Technology Bureau for 2019-20 is \$295.8 million higher than the revised estimate for 2018-19. The main reasons include:

- (a) The increased cash flow of about \$142 million for the TechConnect (block vote);
- (b) The increased cash flow of \$125 million for the Innovation and Technology Fund for Better Living; and
- (c) Provision of about \$29 million for the salaries of two new posts and filling of vacancies and the general departmental expenses.

- End -

CONTROLLING OFFICER'S REPLY

ITB064

(Question Serial No. 0484)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

What are the specific work plan and progress of taking forward the development of the Hong Kong-Shenzhen Innovation and Technology Park in the Lok Ma Chau Loop in the next 3 years? What is the expenditure involved?

Asked by: Hon WONG Ting-kwong (LegCo internal reference no.: 38)

Reply:

In consultation with the Development Bureau, the required information is consolidated and provided as follows:

The Special Administrative Region Government is implementing various planning and infrastructural works in full swing to actively develop the Lok Ma Chau Loop (the Loop) into the Hong Kong-Shenzhen Innovation and Technology Park (the Park). The Government obtained funding approval of about \$780 million from the Legislative Council (LegCo) in May 2018, and commenced the construction of the Advance Works as well as the detailed design and site investigation of Main Works Package 1 in June and September 2018 respectively. Our target is to make the first batch of land parcels available by 2021 for Phase 1 superstructure development. Detailed design and site investigation of Main Works Package 1 are expected to be completed by phases by early 2023. If the above work progresses smoothly, we will seek funding approval from LegCo for the first batch of Main Works and construction of the first batch of buildings of the Park in a timely manner.

In addition, the Hong Kong-Shenzhen Innovation and Technology Park Limited (HSITPL) is conducting a Master Planning Study and a Business Model and Business Planning Study, which are expected to be completed in the first half of 2019. Upon completion of the

studies, we will make reference to the findings and formulate the development strategy and planning of the Park.

The Loop development is a huge and long-term project. The Government has earmarked \$20 billion to support the first stage development of the Park for, inter alia, site formation, infrastructure, superstructure and initial operation. The Government will further estimate the cost required for the development of the Loop having regard to the findings of HSITPL's studies.

- End -

CONTROLLING OFFICER'S REPLY

ITB065

(Question Serial No. 0565)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please set out the results of promoting collaboration between Hong Kong and the Mainland and overseas science and research institutions over the past 3 years, including names of collaborating institutions, details of collaboration projects and collaboration results, etc. What is the estimated number of new collaboration projects to be conducted by Hong Kong and the Mainland and overseas science and research institutions in the coming year?

Asked by: Hon WONG Ting-kwong (LegCo internal reference no.: 40)

Reply:

The Innovation and Technology Bureau (“ITB”) has been promoting collaboration between research institutions in Hong Kong and Mainland and overseas through various channels.

On research and development (“R&D”), there are a number of programmes under the Innovation and Technology Fund which encourage R&D collaboration. Among other things, local universities and research institutions can collaborate with Mainland and overseas research institutions to carry out R&D projects funded by the Innovation and Technology Support Programme, the Partnership Research Programme and the Midstream Research Programme for Universities. In addition, the Guangdong-Hong Kong Technology Co-operation Funding Scheme provides funding for R&D projects that contain Guangdong/Hong Kong co-operation elements to encourage local universities and research institutions to enhance research co-operation with the Guangdong Province. We plan to launch the Mainland-Hong Kong Joint Funding Scheme in collaboration with the Ministry of Science and Technology (“MOST”) this year to further encourage Hong Kong to strengthen research co-operation with various provinces in the Mainland.

The Government-funded Hong Kong Productivity Council (“HKPC”) and 5 local R&D centres have also actively collaborated with Mainland and overseas R&D institutions in the

past 3 years. For example, the HKPC established an Invention Centre jointly with the Fraunhofer Institute for Production Technology of Germany in October 2018 to assist the industry in accelerating adoption of innovative industrial technologies; the Hong Kong Applied Science and Technology Research Institute (“ASTRI”), in collaboration with the State Administration of Press, Publication, Radio, Film and Television (“SAPPRFT”), Academy of Broadcasting Science (“ABS”), established the ASTRI – SAPPRFT ABS Ultra High-definition Television Technology Joint Laboratory in 2016 to develop ultra high-definition technology and new generation video technology; and the Logistics and Supply Chain MultiTech R&D Centre is collaborating with the Lund University of Sweden and the Technical University of Denmark to carry out R&D projects related to big data technology.

On co-operation with the Mainland alone, ITB maintains close liaison with MOST, the Department of Science and Technology of Guangdong Province and relevant units in different provinces and cities to promote technology co-operation with the Mainland at the central, provincial and city levels. In the past 3 years, the Hong Kong Special Administrative Region Government signed with MOST the “Arrangement on Enhancing Innovation and Technology Cooperation between the Mainland and Hong Kong” and the “Agreement on Commencing Jointly Funded Projects between the Ministry of Science and Technology and the Innovation and Technology Bureau of the Hong Kong Special Administrative Region Government”; signed with the Department of Science and Technology of Guangdong Province the “Co-operation Arrangement on Technology and Innovation Exchange between Guangdong and Hong Kong”; and signed with the Chinese Academy of Sciences the “Memorandum of Understanding on Establishing Affiliated Institution by the Chinese Academy of Sciences in Hong Kong”, which are important documents to promote innovation and technology co-operation between the two places. We have also facilitated the opening up of major national and Guangdong technology projects to universities and research institutions in Hong Kong, and project funding is allowed to be remitted directly to local institutions for use. We will continue to encourage local universities and research institutions to apply for the relevant projects, thereby enhancing research co-operation with Mainland institutions. Furthermore, we will continue to create favorable conditions for co-operation between the two places, including maintaining close ties with units such as MOST, and enhancing the management of the cross-boundary use of medical data and bio-samples necessary for research projects in Hong Kong.

In addition, we have earmarked \$10 billion to establish a research cluster focusing on healthcare technologies (i.e. “Health@InnoHK”) and another cluster focusing on artificial intelligence and robotics technologies (i.e. “AIR@InnoHK”) in the Hong Kong Science Park for attracting internationally renowned universities, R&D institutions and technology enterprises to collaborate with local universities and research institutions to undertake more R&D activities. Since the announcement of this initiative, a number of top-notch local, Mainland and overseas universities and research institutions have expressed interest in joining the 2 clusters. We have received 47 proposals, and the vetting process is under way. It is anticipated that the first batch of institutions will progressively establish laboratories in the 2 clusters starting from the fourth quarter of this year.

- End -

CONTROLLING OFFICER'S REPLY

ITB066

(Question Serial No. 0566)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

What specific policies did the Government formulate in the past 3 years to support the use of local technology products and services? What were the specific outcomes? What new specific policy measures will the Government introduce in the coming year to support the use of local technology products and services?

Asked by: Hon WONG Ting-kwong (LegCo internal reference no.: 43)

Reply:

The Government supports the use of local technology products and services through a number of measures.

Starting from April this year, the Government will adopt a pro-innovation procurement policy, which raises the technical weighting in tender assessment from the current 30%-40% to 50%-70% and accordingly reduces the price weighting. Innovative suggestions will also be given marks under the assessment mechanism such that tenderers (including local innovation and technology (“I&T”) start-ups and small and medium enterprises (“SMEs”)) with innovative suggestions will stand a better chance of success. Moreover, unless absolutely necessary, government departments will not prescribe tenderers’ experience as an essential requirement for tender assessment in procurement, so as to minimise entry barriers for novice start-ups and SMEs. The new policy is applicable to the procurement of goods, general services and revenue contracts. The Government will also enhance exchange with the industry and dissemination of procurement information to facilitate the participation of I&T start-ups and SMEs in government procurement.

To encourage local SMEs to bid for government information technology (“IT”) projects, the Office of the Government Chief Information Officer (“OGCIO”) has set up a Minor Group

in the Standing Offer Agreement for Quality Professional Services (“SOA-QPS”) to facilitate local SMEs to provide IT services to departments. In the new SOA-QPS4, the contract value limit of the Minor Group has been raised from \$1.43 million to \$3 million, which is more than double, so that SMEs can participate in government projects of higher contract values. Among the 49 companies participating in the SOA-QPS4, 16 of them (33%) are SMEs, an increase of 6 SMEs as compared with the last agreement. Furthermore, starting from this April, OGCIO will also revise the existing Standard Marking Scheme for Tenders and the marking scheme under the SOA-QPS4 to ensure that the procurement arrangements of IT projects are in line with the new procurement policy.

The OGCIO will establish a Smart Government Innovation Lab in April this year to help promote government departments to procure and use I&T products and solutions from local start-ups and SMEs. In addition to exchange activities such as forums and workshops, OGCIO will set up a dedicated webpage setting out the problems faced by various public services and invite the industry to submit technology solutions and product suggestions. Trials and technology testing for proposals that fulfill the needs of departments will also be arranged in collaboration with relevant departments.

Moreover, to encourage the application of research and development (“R&D”) results of local start-ups in the public sector, the Government has expanded the funding scope of the Public Sector Trial Scheme (“PSTS”) in December 2016, covering not only R&D projects funded by the Innovation and Technology Fund, but also incubatees of the Hong Kong Science and Technology Parks Corporation and Cyberport as well as their incubation programmes’ graduates that stay on as tenants. Funding is provided for production of tools/prototypes/samples and their trials in the public sector in order to foster the commercialisation of local R&D results. As at end-January 2019, the PSTS has funded 202 projects at a total amount of about \$334 million, benefitting more than 280 public organisations.

- End -

CONTROLLING OFFICER'S REPLY

ITB067

(Question Serial No. 0814)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding “supporting the development of the Guangdong-Hong Kong-Macao Greater Bay Area (Greater Bay Area) into an international innovation and technology (I&T) hub” under Matters Requiring Special Attention in 2019-20,

1. What are the work details of this initiative? How can it be ensured that while “supporting the development of the Greater Bay Area into an international I&T hub”, Hong Kong’s advantages in I&T are maintained, including our attractiveness to I&T talent? If yes, what are the details?
2. Does the Innovation and Technology Bureau (ITB) have any dedicated department, manpower and establishment at present for (a) studying the policies of neighbouring regions on the competition for talent; and (b) formulating Hong Kong’s policies on pooling talent? If yes, what are the details?
3. Has the Government assessed the number of I&T talent (including Hong Kong residents, Mainlanders pursued further studies in Hong Kong and people of other nationalities) who had originally pursued their career in Hong Kong but subsequently moved to their places of origin for career development over the past 3 years? If yes, what are the details? If no, will the Government conduct similar surveys to understand Hong Kong’s inadequacy in attracting talent?
4. Concerning postgraduate students undertaking projects related to I&T or Science, Technology, Engineering and Mathematics (STEM), has the Government compiled statistics on the development of such students upon graduation? For example, how many of them have stayed in Hong Kong for career development and how many went to the Mainland or other regions to pursue their career?

Asked by: Hon WU Chi-wai (LegCo internal reference no.: 7)

Reply:

The requested information is as follows:

- (1) Developing an international innovation and technology (I&T) hub is one of the work focuses listed in the Outline Development Plan for the Guangdong-Hong Kong-Macao Greater Bay Area (the Greater Bay Area). The focuses include pursuing the development of a “Guangzhou-Shenzhen-Hong Kong-Macau” I&T corridor, exploring measures to facilitate the cross-boundary flow of innovation elements, such as talent, capital, information and technologies, strengthening international I&T cooperation, and developing quality technology infrastructure and innovation platforms. Hong Kong has strength in scientific research, world-class universities, advantages as an international and market-oriented economy and robust intellectual property rights protection system while the Greater Bay Area has a massive market, as well as the capabilities of research results commercialization and advanced manufacturing, thereby providing Hong Kong I&T companies with much room for development. The Special Administrative Region Government will enhance the level of I&T development in Hong Kong by establishing international research clusters, pooling together international technology resources, facilitating the flow of scientific research elements, developing the Hong Kong-Shenzhen Innovation and Technology Park, etc. It will also participate in the work of developing the Greater Bay Area into an international I&T hub.

Hong Kong has an edge in attracting talent. Our internationalised city, unique blend of East and West, comprehensive ancillary facilities, low tax regime, and free flow of capital and information are among the favourable factors in attracting overseas talent to work in Hong Kong. Currently, there is intense competition for attracting I&T talent worldwide. By taking forward various initiatives, we are actively nurturing more local I&T talent and pooling top-notch I&T talent from around the world, and improve the I&T ecosystem to attract talent to stay and develop their career in Hong Kong.

- (2) The Innovation and Technology Bureau (ITB) and its departments have been keeping in view of the talent policies of other regions and pooling I&T talent to Hong Kong by actively attracting, nurturing and retaining talent. It also develops an active I&T ecosystem and provides development opportunities for I&T talent in Hong Kong. The ITB handles the relevant work with its existing manpower and a breakdown of the expenditure is not available.
- (3) The ITB does not have the relevant statistics. We will take measures to actively enhance Hong Kong’s attractiveness to I&T talent in order to pool together I&T talent.
- (4) To encourage STEM (i.e. Science, Technology, Engineering and Mathematics) graduates to pursue a career in the local I&T industry, the Innovation and Technology Commission launched the Internship Programme (currently known as the Researcher Programme) and the Postdoctoral Hub in 2004 and 2018 respectively to provide funding for eligible organisations and companies to recruit researchers/postdoctoral talent to conduct research and development work. As at late January 2019, the

Researcher Programme has supported over 3 800 researchers. Among the researchers who have completed the engagement period, about 70% said they would continue or plan to pursue a career in the I&T-related industries. The Postdoctoral Hub programme has also approved about 360 applications.

- End -

CONTROLLING OFFICER'S REPLY

ITB068

(Question Serial No. 0815)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

With reference to “continue to take forward the development of the Hong Kong-Shenzhen Innovation and Technology Park in the Lok Ma Chau Loop”:

1. have the 2 consultancy studies, namely the Master Layout Plan Study and the Business Model and Business Plan Study on the development of the Loop that were carried out by the Hong Kong-Shenzhen Innovation and Technology Park Limited, been completed? And is there any initial conclusion on such issues as whether universities will be invited to establish a superb scientific research institution in the Loop?
2. what is the present progress of various advance works in the Loop (including site formation, design of main works package and site investigation)? And can the site be provided for superstructure construction well before 2021? and
3. how many meetings have been convened by the Joint Task Force on the Development of the Hong Kong-Shenzhen Innovation and Technology Park in the Loop? Who are the Hong Kong representatives attending each meeting and can the discussion of each meeting be summarized?

Asked by: Hon WU Chi-wai (LegCo internal reference no.: 8)

Reply:

In consultation with the Development Bureau, the required information is consolidated and provided as follows:

- (1) The Hong Kong Special Administrative Region Government plans to set up a key base for co-operation in scientific research as well as relevant higher education and cultural and creative industries facilities in the Hong Kong-Shenzhen Innovation and Technology Park (“the Park”), so as to attract top-notch enterprises, research and

development organisations and higher education institutions from the Mainland and overseas to establish their presence to have collaborations with local enterprises, universities and research institutions. The Hong Kong-Shenzhen Innovation and Technology Park Limited (“HSITPL”) is conducting a Master Planning Study and a Business Model and Business Planning Study for the development of the Park, which are expected to be completed in the first half of 2019. Upon completion of the studies, we will formulate the development strategy and planning of the Park with reference to the findings.

- (2) The Advance Works of the Lok Ma Chau Loop (“the Loop”) commenced in June 2018, while the detailed design and site investigation of Main Works Package 1 commenced in September 2018. According to the current progress of the Advance Works, our target is to make the first batch of land available by 2021 for the Park’s Phase 1 superstructure development.
- (3) The Joint Task Force on the Development of the Hong Kong-Shenzhen Innovation and Technology Park in the Loop (“the Joint Task Force”), co-chaired by the Secretary for Innovation and Technology and the Vice Mayor of Shenzhen has held 4 meetings so far. Through the Joint Task Force, the Hong Kong and Shenzhen sides conducted discussions and consultations on major issues relating to the development of the Park, such as the progress and future work plan of HSITPL, the works progress of supporting infrastructure in the Loop, etc. Representatives of the Hong Kong side attending the meetings include representatives from the Innovation and Technology Bureau, the Development Bureau, the Constitutional and Mainland Affairs Bureau, the Education Bureau, the Commerce and Economic Development Bureau, the Innovation and Technology Commission, the Lands Department and the Civil Engineering and Development Department.

- End -

CONTROLLING OFFICER'S REPLY

ITB069

(Question Serial No. 0819)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (3) Efficiency Office

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Under Matters Requiring Special Attention in 2019-20, it is mentioned that the Efficiency Office will “work with the Social Innovation and Entrepreneurship Development Fund Task Force to engage a new batch of intermediaries to run programmes in different priority areas of the Fund’s work, engage an intermediary to develop and operate a gerontechnology platform and consider pilot projects for new funding mechanisms for social ventures”:

1. In respect of the above two projects, what are the details, such as estimated expenditure, staff establishment involved, the level of participation of the Efficiency Office/ Innovation and Technology Bureau, the method to engage the intermediaries and the content of the programmes, etc.?
2. Will performance indicators/targets be set for the above two projects?

Asked by: Hon WU Chi-wai (LegCo internal reference no.: 12)

Reply:

Our consolidated reply to the 2 parts of the question is as follows.

The Social Innovation and Entrepreneurship Development Fund (SIE Fund) was established to alleviate poverty and social exclusion, and facilitate social inclusion in Hong Kong by promoting social innovation and nurturing social entrepreneurship. The Efficiency Office (EffO) serves as the Secretariat of the Fund and oversee its daily operation. In 2019-20, the Fund will focus on 3 key areas of work as outlined below.

Engaging a new batch of intermediaries

The SIE Fund has engaged intermediaries to take forward initiatives under Innovative Programmes and Capacity Building since 2015. Upon the near-completion of service by the first batch of intermediaries, the Fund plans to engage a new batch of intermediaries in

2019 to further take forward its work under its 3 priority areas of work, namely Innovative Programmes, Capacity Building and Research. In January 2019, the Fund issued an open invitation to solicit proposals from parties interested in taking up the role of intermediaries for the first priority area. Major criteria for selecting the intermediaries include:

- the vision, objectives and expected impact of the proposal;
- the relevant capability and experience of the proponent organisation and project team;
- the proposed design, management, support services, marketing and promotion, and performance management;
- the proposed implementation/execution details, work plan and corporate governance; and
- the cost-effectiveness of the proposal.

As regards the other 2 priority areas (i.e. Capacity Building and Research), the Fund plans to issue similar invitations in mid-2019.

Based on the proposals received from the first batch of intermediaries, the Fund established a set of targets in 2015, including funding 100 projects, generating 700 innovative ideas and nurturing 2 700 social entrepreneurs within 3 years. All these targets have already been achieved. Similarly, regarding the intermediaries to be engaged this year, the Fund will draw reference from the proposals received from the new batch of intermediaries to establish a set of targets.

Establishing a gerontechnology platform

In view of the challenges arising from an ageing population and the development potential of gerontechnology, the SIE Fund plans to engage an intermediary in 2019 to develop and operate a gerontechnology platform that will link up different stakeholders. Apart from linking up stakeholders on the supply side to promote cross-sector collaboration, the platform will connect the supply side with the demand side so as to gather the efforts of all sector to facilitate the development of the gerontechnology ecosystem in Hong Kong. To prepare for the establishment of the platform, the Fund had organised a series of stakeholder engagement activities in 2018, attracting more than 140 stakeholders from various sectors to brainstorm and co-create solutions for the platform. Taking due account of the stakeholders' views, the Fund will issue an open invitation in April 2019 to solicit proposals from parties interested in taking up the role of intermediary.

Exploring new funding mechanisms

The SIE Fund currently provides funding for social innovation projects in the form of grants. The Fund is now exploring new funding mechanisms by making use of different financial vehicles to meet the different funding needs of social entrepreneurs and attract more private investments in social innovation projects. To this end, the Fund is actively promoting the pilot development of "Pay-for-Success" (or "Social Impact Bond") model and welcomes proposals of pilot projects from the community. The Fund will also explore the feasibility of other new financial vehicles, including loans, loan guarantee and equity investment.

As at end-February 2019, the SIE Fund has committed around \$150 million to support its work on various fronts. The Fund will deploy the remaining \$350 million to further take forward its work in the future.

The above work will be handled by existing staff of the EffO and no additional staff establishment will be involved.

- End -

CONTROLLING OFFICER'S REPLY

ITB070

(Question Serial No. 3611)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (1) Director of Bureau's Office

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please provide in table form details of the overseas duty visits made by the Secretary for Innovation and Technology in 2018-19, including the dates, places, purposes, major itineraries and expenses of the visits and the officials and/or groups he met during the visits, as well as the visits he expects to make in 2019-20.

Asked by: Hon WU Chi-wai (LegCo internal reference no.: 66)

Reply:

Details of the duty visits made by the Secretary for Innovation and Technology (S for IT) in 2018-19 (as at the end of February 2019) are as follows:

Dates of visits (Number of visits)	Places of visits	Purposes of visits	Passage expenses HK\$ (A)	Hotel expenses HK\$ (B)	Other expenses^{Note} HK\$ (C)	Total expenditure HK\$ (A)+(B)+(C)
2018-19 (as at the end of February 2019) (7 visits)	Shenzhen, Dongguan, Zhongshan, Foshan, Guangzhou, Beijing and Tianjin; Tokyo, Japan; Paris, France; London, the United Kingdom; and Basel and Zurich, Switzerland	To attend meetings and events, and conduct exchanges (e.g. attending the 2018 Summer Davos Forum etc., and meeting with government officials, local bodies and personnel from innovation and technology organisations)	About 242,000	About 147,000	About 116,000	About 505,000

Note: Other expenses include subsistence allowances and entertainment expenses.

S for IT will join the delegation of the Hong Kong Special Administrative Region Government to Shenzhen on 2 April 2019 to attend the Hong Kong/Shenzhen Co-operation Meeting. S for IT will also join the Joint-Panel duty visit to the Yangtze River Delta Region conducted by the Legislative Council Panels on Economic Development, Commerce and Industry, Financial Affairs, and Information Technology and Broadcasting from 21 to 24 April 2019 on invitation. Apart from these, there is currently no further confirmed duty visit for S for IT for 2019-2020.

- End -

CONTROLLING OFFICER'S REPLY**ITB071****(Question Serial No. 0840)**Head: (135) Government Secretariat: Innovation and Technology BureauSubhead (No. & title): ()Programme: (1) Director of Bureau's OfficeControlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)Director of Bureau: Secretary for Innovation and TechnologyQuestion:

Regarding the salaries, allowances, job-related allowances and related expenses to be incurred by the Office of the Secretary for Innovation and Technology in 2019-20, please tabulate the following information:

- (1) the (i) salaries, (ii) allowances, (iii) job-related allowances, (iv) Mandatory Provident Fund (MPF) contribution and (v) Civil Service Provident Fund contribution of (a) the Secretary for Innovation and Technology (S for IT), (b) the Under Secretary for Innovation and Technology and (c) the Political Assistant to S for IT in this financial year;

	(i) Salaries	(ii) Allowances	(iii) Job-related allowances	(iv) MPF contribution	(v) Civil Service Provident Fund contribution
(a) S for IT					
(b) Under Secretary for Innovation and Technology					
(c) Political Assistant to S for IT					

- (2) the estimated expenditures on allowances for (a) S for IT, (b) the Under Secretary for Innovation and Technology and (c) the Political Assistant to S for IT in this financial year, including the following five categories of expenditures: (i) their medical and dental benefits, (ii) the medical and dental benefits of their spouses, (iii) their leave passage allowances, (iv) the leave passage allowances of their spouses and (v) cars and chauffeur services;

	(i) Medical and dental benefits	(ii) Medical and dental benefits of spouses	(iii) Leave passage allowances	(iv) Leave passage allowances of spouses	(v) Cars and chauffeur services
(a) S for IT					
(b) Under Secretary for Innovation and Technology					
(c) Political Assistant to S for IT					

- (3) the estimated expenditures on job-related allowances for (a) S for IT, (b) the Under Secretary for Innovation and Technology and (c) the Political Assistant to S for IT in this financial year, including the following three categories of expenditures: (i) official entertainment, (ii) passage for duty visits and (iii) security arrangements.

	(i) Official entertainment	(ii) Passage for duty visits	(iii) Security arrangements
(a) S for IT			
(b) Under Secretary for Innovation and Technology			
(c) Political Assistant to S for IT			

Asked by: Hon YEUNG Alvin (LegCo internal reference no.: 66)

Reply:

- (1) In the estimate for 2019-20, the salary provisions earmarked by the Innovation and Technology Bureau (ITB) for the Secretary for Innovation and Technology (S for IT), the Under Secretary for Innovation and Technology and the Political Assistant to S for IT are about \$4.08 million, \$2.65 million and \$1.02 million respectively. The ITB has also earmarked \$18,000 for each of the above 3 officials for Mandatory Provident Fund contribution.
- (2) The S for IT, the Under Secretary for Innovation and Technology and the Political Assistant to S for IT and their dependents enjoy the medical and dental benefits applicable to civil servants and their dependents. The S for IT shall be provided with the free use at his discretion of a car and driver in Hong Kong. The use of government car by the Under Secretary for Innovation and Technology and the Political Assistant to S for IT shall be governed by rules and regulations applicable to civil servants at comparable levels.

- (3) In the estimate for 2019-20, the provisions earmarked for the Director of Bureau's Office for official entertainment and passage for duty visits are about \$130,000 and \$810,000 respectively. We do not have any estimate of expenditure on the leave passage allowance, regular allowances or job-related allowances, Civil Service Provident Fund contribution and security arrangements for the S for IT, the Under Secretary for Innovation and Technology and the Political Assistant to S for IT.

- End -

CONTROLLING OFFICER'S REPLY**ITB072****(Question Serial No. 2683)**Head: (135) Government Secretariat: Innovation and Technology BureauSubhead (No. & title): (000) Operational expensesProgramme: (2) Innovation and TechnologyControlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)Director of Bureau: Secretary for Innovation and TechnologyQuestion:

The Government formulates policies to support the use of local technology products and services. Please provide the following information in tabular form and inform this Committee of the details of manpower establishment, expenses and tender exercises for processing applications under various schemes and programmes:

Government departments	Local technology products/services	Duration of use of products/services	Price

Asked by: Hon YEUNG Alvin (LegCo internal reference no.: 95)Reply:

The Innovation and Technology Bureau (“ITB”) supports the use of local technology products and services through various measures.

To encourage local small and medium enterprises (“SMEs”) to bid for government information technology (“IT”) projects, the Office of the Government Chief Information Officer (“OGCIO”) set up a Minor Group under the Standing Offer Agreement for Quality Professional Services to facilitate local SMEs to provide IT services to departments. To enable SMEs to participate in government projects of higher contract values, the contract value limit of the Minor Group under the new Standing Offer Agreement for Quality Professional Services 4 (“SOA – QPS4”) has been raised to \$3 million, which is more than double of the original limit of \$1.43 million. A total of 49 companies have participated in the SOA – QPS4, of which 16 (33%) are SMEs, representing an increase of 6 compared

with the previous agreement. Moreover, OGCIO will amend the current Standard Marking Scheme for Turnkey Solutions and the marking scheme for SOA – QPS4 in April 2019, so that the procurement arrangements for IT projects will be in line with the Government’s new pro-innovation procurement policy.

OGCIO will establish a Smart Government Innovation Lab in April this year to help promote government departments to procure and use I&T products and solutions from local start-ups and SMEs. In addition to exchange activities such as forums and workshops, OGCIO will set up a dedicated webpage setting out the problems faced by various public services and invite the industry to submit technology solutions and product suggestions. Trials and technology testing for proposals that fulfill the needs of departments will also be arranged in collaboration with relevant departments.

Moreover, to encourage the application of research and development (“R&D”) results of local start-ups in the public sector, the Government has expanded the funding scope of the Public Sector Trial Scheme (“PSTS”) in December 2016, covering not only R&D projects funded by the Innovation and Technology Fund, but also incubatees of the Hong Kong Science and Technology Parks Corporation and Cyberport as well as their incubation programmes’ graduates that stay on as tenants. Funding is provided for production of tools/prototypes/samples and their trials in the public sector in order to foster the commercialisation of local R&D results. As at end-January 2019, the PSTS has funded 202 projects at a total amount of about \$334 million, benefitting more than 280 public organisations.

As the government departments have been individually inviting tenders for the products and services they need, ITB does not have the statistics requested.

- End -

CONTROLLING OFFICER'S REPLY**ITB073****(Question Serial No. 2695)**Head: (135) Government Secretariat: Innovation and Technology BureauSubhead (No. & title): (000) Operational expensesProgramme: (3) Efficiency OfficeControlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)Director of Bureau: Secretary for Innovation and TechnologyQuestion:

The Innovation and Technology Bureau (ITB) provides consultancy services to other government departments for business process re-engineering, organisation restructuring, performance measurement, knowledge management and change management, and assist bureaux and departments to obtain external consultancy services as appropriate. Please provide this Committee with the following information using the table below, and advise this Committee of the details of the staff establishment and expenditure for processing applications for ITB's services.

Government department	Service provided	Details of the service	Staff establishment	External consultancy service obtained	Name of the external consultant	Period of engagement of the external consultant	Expenditure on obtaining the external consultancy service

Asked by: Hon YEUNG Alvin (LegCo internal reference no.: 105)Reply:

Providing management consultancy services to other government departments on business process re-engineering, organisation restructuring, performance measurement, knowledge management and change management is one of the areas of work of the Efficiency Office (EffO). Currently, EffO is conducting 3 management consultancy studies, of which 2 are undertaken by EffO staff and the remaining one is carried out with the assistance of an external consultant. Relevant details are as follows:

Government department	Service provided	Details of the service	Staff establishment	External consultancy service obtained	Name of the external consultant	Period of engagement of the external consultant	Expenditure on obtaining the external consultancy service
(a) Consultancy service projects undertaken directly by the EO staff							
Note (1)	Review on the experience on the implementation of the Pilot Programme on the Electronic Recordkeeping System (ERKS) and the benefits of ERKS to knowledge management	To review the Pilot Programme on ERKS	Undertaken with existing manpower	Not applicable	Not applicable	Not applicable	Not applicable
Commerce and Economic Development Bureau	Assist relevant departments in carrying out business process re-engineering	To conduct the business process re-engineering study for the development of Hong Kong's Trade Single Window	Undertaken with existing manpower	Not applicable	Not applicable	Not applicable	Not applicable
(b) Consultancy service project conducted with the assistance of external consultancy firms							
Note (2)	Measure the degree of public satisfaction with government services	To conduct public opinion surveys on public services	Undertaken with existing manpower	Yes	Market Quest Consulting	From March 2019 to September 2019	\$418,000

Note (1): Government departments participating in the Pilot Programme on ERKS which include: the Intellectual Property Department, the Office of the Government Chief Information Officer, the Administration Wing, the Civil Engineering and Development Department, the Architectural Services Department and the Marine Department.

Note (2): 10 Government departments providing services closely related to the public which are the Hong Kong Police Force, Hongkong Post, the Hospital Authority, the Housing Department, the Immigration Department, the Inland Revenue Department, the Labour Department, the Leisure and Cultural Services Department, the Social Welfare Department and the Transport Department.

With existing resources, EffO also provides support to government bureaux and departments with respect to the procurement of general management consultancy services.

- End -

CONTROLLING OFFICER'S REPLY

ITB074

(Question Serial No. 4946)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): (000) Operational expenses

Programme: Not specified

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

What are the staff establishment and expenditure involved in the Facebook page “Innovation and Technology Bureau HK” of the Innovation and Technology Bureau? Has the Bureau engaged any external companies to help produce promotional videos or graphics, etc.? If yes, please provide detailed information and expenditure on it.

Asked by: Hon YEUNG Alvin (LegCo internal reference no.: 120)

Reply:

The Facebook of the Innovation and Technology Bureau is mainly managed with existing manpower and no additional resources are involved. No external company has been engaged to help produce promotional videos or graphics.

- End -

CONTROLLING OFFICER'S REPLY

ITB075

(Question Serial No. 4949)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): (000) Operational expenses

Programme: (3) Efficiency Office

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Efficiency Office assists in streamlining the administration of government services. In this regard, please provide the following information to this Committee in tabulated form:

Government department involved	Details of administration streamlining	Results achieved	Staff establishment	Expenditure

Asked by: Hon YEUNG Alvin (LegCo internal reference no.: 134)

Reply:

The Efficiency Office (EffO) is considering a comprehensive programme to improve public service delivery through streamlining the administration of government services and adopting more innovation and technology. The programme is expected to be launched this year and the details are being worked out. The EffO will take forward the relevant work with existing manpower and resources.

- End -

CONTROLLING OFFICER'S REPLY**ITB076****(Question Serial No. 4950)**Head: (135) Government Secretariat: Innovation and Technology BureauSubhead (No. & title): (000) Operational expensesProgramme: (3) Efficiency OfficeControlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)Director of Bureau: Secretary for Innovation and TechnologyQuestion:

1. Regarding the cases handled by the "1823" 24-hour one-stop service, please tabulate the respective number, enquiry method and percentage of cases concerning each department.
2. Regarding the complaints handled by the "1823" 24-hour one-stop service, please tabulate the number of cases, departments involved, as well as the categories and percentage of complaints.
3. Please set out the staffing establishment and expenditure for providing the "1823" 24-hour one-stop service.

Asked by: Hon YEUNG Alvin (LegCo internal reference no.: 135)Reply:

The required information is provided as follows:

- (1) The number and percentage of enquiry cases concerning each department handled by 1823 in 2018 are as follows:

Department	Number of enquiry cases (and respective percentage against the total enquiry caseload)	
Labour Department	351 631	18.59%
Hong Kong Housing Authority and Housing Department	343 459	18.16%

Department	Number of enquiry cases (and respective percentage against the total enquiry caseload)	
	Working Family and Student Financial Assistance Agency	202 301
Transport Department	200 796	10.62%
Rating and Valuation Department	150 474	7.96%
Hongkong Post	99 957	5.29%
Companies Registry	92 210	4.88%
Buildings Department	44 503	2.35%
Social Welfare Department	35 590	1.88%
Food and Environmental Hygiene Department	31 113	1.65%
Leisure and Cultural Services Department	19 726	1.04%
Agriculture, Fisheries and Conservation Department	17 945	0.95%
Lands Department	16 398	0.87%
Office of the Government Chief Information Officer	11 434	0.60%
Electrical and Mechanical Services Department	11 266	0.60%
Tobacco Control Office, Department of Health	7 407	0.39%
Highways Department	4 638	0.25%
Land Registry	4 091	0.22%
Drainage Services Department	1 319	0.07%
Architectural Services Department	563	0.03%
Marine Department	417	0.02%
Civil Engineering and Development Department	223	0.01%
1823 and non-participating departments	243 715	12.87%
Total	1 891 176	100%

The enquiry method and percentage breakdown are as follows:

Enquiry method	Number of enquiry cases (and respective percentage against the total enquiry caseload)	
	Telephone call	1 840 189
Email	31 279	1.65%
Mobile app	10 680	0.57%
Online electronic form	4 743	0.25%
SMS	2 686	0.14%

Enquiry method	Number of enquiry cases (and respective percentage against the total enquiry caseload)	
Facsimile	1 599	0.09%
Total	1 891 176	100.00%

- (2) The number and percentage of complaint cases (including requests for services) concerning each department handled by 1823 in 2018 are as follows:

Department	Number of complaint cases (and respective percentage against the total complaint caseload)	
Food and Environmental Hygiene Department	151 979	30.23%
Highways Department	67 465	13.42%
Lands Department	33 629	6.69%
Transport Department	30 475	6.06%
Leisure and Cultural Services Department	30 350	6.04%
Hong Kong Housing Authority and Housing Department	24 555	4.88%
Buildings Department	24 189	4.81%
Agriculture, Fisheries and Conservation Department	22 006	4.38%
Drainage Services Department	17 707	3.52%
Tobacco Control Office, Department of Health	11 680	2.32%
Electrical and Mechanical Services Department	4 498	0.89%
Hongkong Post	2 555	0.51%
Architectural Services Department	2 052	0.41%
Labour Department	1 183	0.24%
Social Welfare Department	1 157	0.23%
Civil Engineering and Development Department	1 057	0.21%
Marine Department	574	0.11%
Rating and Valuation Department	250	0.05%
Working Family and Student Financial Assistance Agency	183	0.04%
Office of the Government Chief Information Officer	158	0.03%
Companies Registry	72	0.02%
Land Registry	19	0.01%
1823 and non-participating departments	74 879	14.90%
Total	502 672	100%

The number and percentage breakdown of major types of complaints are as follows:

Complaint	Number of complaint cases (and respective percentage against the total complaint caseload)	
	Refuse collection/clearance, cleanliness of streets and private places	42 495
Police-related issues, such as illegal parking, improper driving behavior and noise nuisance	36 200	7.20%
Water seepage in buildings	23 209	4.62%
Dripping of water outside premises	19 190	3.82%
Road repairs	18 964	3.77%
Others (e.g. malfunctioning of street lights, flooding, and dead bird carcasses)	362 614	72.14%
Total	502 672	100%

- (3) As at the end of February 2019, 1823 had 422 full-time staff (including 416 contract staff and 6 civil servants) and 116 part-time staff. The salary expenditure in 2018-19 was \$136 million.

- End -

CONTROLLING OFFICER'S REPLY

ITB077

(Question Serial No. 2068)

Head: (135) Government Secretariat: Innovation and Technology Bureau

Subhead (No. & title): ()

Programme: (2) Innovation and Technology

Controlling Officer: Permanent Secretary for Innovation and Technology
(Cheuk Wing Hing)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the promotion of the adoption of innovation and technology by government departments to improve and enhance the quality of public services, will the Government inform this Committee of the following:

- (1) Launched by the Government in 2017, the TechConnect (block vote) has been providing funding support to bureaux or departments for implementing projects which improve the quality, efficiency or effectiveness of public services by the adoption of technology or to make use of technology to improve operations. Please provide the details of the relevant technology projects or pilot programmes being conceived and taken forward by bureaux or departments since 2017, including programme details, expected results, and expenditure estimates;
- (2) The Office of the Government Chief Information Officer stated earlier that it would set up the Smart Government Innovation Lab this year to match needs of departments with suitable solutions proposed by the industry. Please provide the details and targets of the initiative and the expenditure and manpower establishment involved; and
- (3) Did the Innovation and Technology Bureau take the initiative to advise and support relevant bureaux and departments in the past year on the use of innovation and technology by government departments to enhance public services? If yes, what were the details?

Asked by: Hon YUNG Hoi-yan (LegCo internal reference no.: 45)

Reply:

The information required is provided as follows:

- (1) The Innovation and Technology Bureau (ITB) set up the TechConnect (block vote) in mid-2017 to support government departments in planning and implementing technology projects so as to enhance operational efficiency and improve public services through the adoption of technology. So far, ITB has agreed to support 48 technology projects or study projects proposed by 21 departments, involving a total sum of over \$300 million. The details are as follows:

Bureau/ Department	Project title	Expected Benefits	Estimated Amount (\$ million)
Agriculture, Fisheries and Conservation Department	Pilot project of real-time Phytoplankton Taxa Monitoring System	To improve the detection and response capacity of red tide incidents by real-time monitoring phytoplankton taxa	5.4
Buildings Department	The use of advanced technological testing methods to assist water seepage investigation in buildings	To enhance efficiency of water seepage investigation	5.0
Customs and Excise Department	“Smart Crossing” - deployment of Radio-frequency identification (RFID) technology on the recognition of licence plate numbers of cross-boundary private cars	To enhance the efficiency of clearance service by increasing the recognition accuracy of the licence plate numbers of cross-boundary private cars	9.0
	A study on the development of a “Cargo Big Data System”	To strengthen the risk management capability of C&ED on cargo clearance	9.8
	Feasibility study on Single E-lock enhancement	To enhance the efficiency of cargo clearance procedure through the use of the mutually recognised E-locks by Hong Kong and the Mainland Customs	8.9
Civil Engineering and Development Department	Provision of applications to promote smart mobility, sustainable leisure and recreation information of Lantau	To provide traffic and recreation information to Lantau residents and visitors	0.5
	Development of an automated system for concrete cube testing	To strengthen the safety and quality of infrastructures	9.7

Bureau/ Department	Project title	Expected Benefits	Estimated Amount (\$ million)
Correctional Services Department	Health Signs Monitoring System for Persons in Custody requiring additional medical observation and care in hospitals of Stanley Prison (SP) and Tai Lam Centre for Women (TLCW), geriatric ward and sickbay of Siu Lam Psychiatric Centre (SLPC) and certain hall(s) in SP	To enhance the monitoring of the health condition of Persons in Custody in the hospitals of correctional institutions	9.2
	Video Analytic Monitoring System for behaviour of Persons in Custody in Pik Uk Prison (PUP)	To assist in the monitoring of the behaviour of Persons in Custody in prisons and correctional institutions	9.6
Department of Health	Feasibility study for the implementation of a Digitalised Chinese Medicines Herbarium	To enhance public understanding on Chinese medicine and its safe use, and respond to the demand of quality and safety standards of Chinese medicine from the industry	1.9
	Developing Smart Fever Screening System for boundary control points in Hong Kong	To enhance the fever screening capability at boarder control points	7.0
Drainage Services Department	Provision of ultrasonic sludge pre-treatment facilities at the Tai Po Sewage Treatment Works	To enhance utilisation of renewable energy and reduce carbon footprint by using ultrasonic technology in sludge pre-treatment	9.7
	Smart Sewerage Monitoring System	To enhance the performance in monitoring sewerage system and improve the drainage preventive and maintenance works	5.5
	Retrofitting the SANI small scale plant at the Shatin Sewage Treatment Works	To reduce the generation of sludge in the course of sewage treatment, which in turns optimise the treatment capacity and reduce carbon footprint	9.6
	Pilot study to investigate rainfall infiltration in existing sewerage systems in	To increase the monitoring capacity of rainfall infiltration in existing	2.0

Bureau/ Department	Project title	Expected Benefits	Estimated Amount (\$ million)
	urban area	sewage systems in urban area, strengthen the maintenance of sewage system, and increase the capacity of sewage treatment during heavy rainfall	
	Trial use of robots for inspection and desilting of drains, box culverts, decked nullahs and sewers	To improve the safety and efficiency of the inspection and desilting works of the drainage and sewerage facilities	9.8
	Intelligent Pressure Transient Monitoring System for Rising Mains	To enhance the performance in monitoring the rising mains and improve the efficiency in the maintenance works	2.2
	Applying smart robotic underwater vehicle (ROV) for ensuring safe and effective maintenance of wet wells at sewage treatment plants	To eliminate the hazardous and obnoxious man-entry for surveying, inspecting, and cleaning of wet wells using the relevant data to devise new occupational and health standards pertaining to working in confined and underwater environment	8.5
Development Bureau	To conduct a feasibility study to monitor illegal parking / stopping by utilising video analytics and to conduct a pilot trial at Kowloon East	To monitor and enhance the control of illegal parking/stopping, hence reducing traffic congestion and air pollution	8.0
	Application of QR Code in tree labelling	To facilitate efficient handling of tree problems by streamlining the reporting procedure with the information stored in the QR code	7.0

Bureau/ Department	Project title	Expected Benefits	Estimated Amount (\$ million)
Tree Management Office of Development Bureau and Architectural Services Department	Application of optical fiber sensing technology in monitoring of masonry retaining walls, stonewall trees and large trees	To improve the efficiency in monitoring retaining walls and trees, resulting in a safer living environment to the public	8.0
Electrical and Mechanical Services Department	Study on Immersion Cooling System for data centres	To help data centres save electricity for cooling	1.4
	Study of noise signature of lifts and escalators using optical fiber Bragg grating sensing technology	To monitor multiple operating parameters of in-service lifts and escalators, and to enhance the maintainability and safety of lifts and escalators	1.2
Environmental Protection Department	Air pollution sensor practicality trial	To enhance the efficiency of air quality monitoring	7.6
Fire Services Department	Implementation of logistics solution of dangerous drugs for patients with certain medical conditions	To identify the dangerous drugs for patients more timely and accurately and enhance the emergency ambulance services to the public	9.7
Housing Department	Develop the technology to produce plans for statutory submission from the Building Information Modelling	To promote the use of Building Information Modelling technology in the industry and improve the efficiency of statutory submission of plans	8.0
Hong Kong Observatory	Integrated urban weather monitoring and data-sharing platform for smart cities	To enhance the integrated weather monitoring and provide an open data sharing platform	8.2
	Development of a smart analytics platform for weather related Big Data to support forecasting and alerting of high-impact weather hazards	To enhance the high-impact weather forecasting and alerting services for the public	9.6

Bureau/ Department	Project title	Expected Benefits	Estimated Amount (\$ million)
Hong Kong Police Force	E-statement (Speech Recognition) and Data Mining System (EDMS)	To enhance the effectiveness and efficiency in statement taking and content analysis through the utilisation of automation technology	9.5
	Radio-frequency identification (RFID) system for management of affected people during major incidents	To enhance the planning of rescue missions through boosting the efficiency of information management, and to facilitate multi-agency response and enhance efficiency of large-scale rescue operations	3.4
	Video Explorer	To enhance the prevention and detection of crime by improving the accuracy and efficiency of video analysis	9.9
	Automation of Cybercrime Capturing, Categorization and Correlation (AC4)	To facilitate the analysis of emerging trends and latest modus operandi of cybercrime, and to enhance the prevention and detection of cybercrime	6.8
	Advanced Image Processing System (Project AIPS)	To utilise image enhancement and analytic capability in the context of crime investigation and the presentation of digital evidence for court proceedings	6.7
	Fraud Analytic Toolkit for Social Media (Project FANTOM)	To facilitate detection and prevention of social media related crimes	9.1
	Predictive Email Scam Analytic (PESA) System	To enhance the prevention of email scam fraud through the analytical system	5.6
Highways Department	Development of lux logger with GPS function	To enhance the quality of public lighting maintenance, replacement and upgrade works	1.5
Lands	Pilot project on creation of	To create the 3D indoor	5.5

Bureau/ Department	Project title	Expected Benefits	Estimated Amount (\$ million)
Department	3D indoor maps for smart city	map and support the 3D digital map initiative as stated in the Hong Kong Smart City Blueprint	
Leisure and Cultural Services Department	Non-invasive conservation studies of art and antiquities with innovative imaging technologies	To enhance non-invasive conservation studies of art and antique to enact better conservation plans	6.5
	Non-invasive conservation studies of cultural heritage with X-ray computed tomography	To better preserve the cultural heritage with non-invasive conservation technologies	9.0
	Tech Experiential Learning Project	To provide education programmes to Hong Kong Science Museum visitors with the use of innovative technologies	9.4
Office of the Government Chief Information Officer	Pilot Cyber Security Information Sharing Partnership Programme	To improve cyber security resilience of Hong Kong by promoting and facilitating the closer collaboration among local stakeholders of cyber security	8.5
	Pilot application on blockchain technology	To provide more user-friendly and secured e-government services for the public by developing blockchain technology in Government	4.9
Transport Department	Pilot Intelligent Traffic Signal System	To optimise the green times allocated to different traffic movements and pedestrians at the junction, hence increasing the capacity of the junctions, reducing queue length and minimising the delay to traffic and pedestrians	8.1
	Trial of geo-fencing technology on vehicles	To enhance bus safety by evaluating the effectiveness of the application of geo-fencing on speed limit control	2.5

Bureau/ Department	Project title	Expected Benefits	Estimated Amount (\$ million)
Water Supplies Department	Provision of in-line hydropower harnessing device for Water Intelligent Network	To enable real time monitoring of the water supply network, optimise the maintenance works and crisis management, so as to reduce carbon footprint and water leakage	2.0
	Study on anti-corrosion and anti-biofouling coating for enhancing water pump efficiency	To enhance water pump efficiency in order to reduce carbon footprint	1.1
	Robotic in-line inspection of water mains	To enhance the preventive maintenance works for water mains and safeguard the reliability of water supplies	9.0
	Using Unmanned Surface Vessel (USV) System for water quality monitoring and sampling at impounding reservoirs	To enhance water quality monitoring	4.0

- (2) The Office of the Government Chief Information Officer (OGCIO) will establish a Smart Government Innovation Lab (Smart Lab) in April 2019 to conduct trials and technology testing in collaboration with government departments on information technology proposals which address their business needs. The “Smart Lab” will also showcase technologies that have been successfully tested, such as chatbot, virtual reality, geo-spatial technology, etc., with a view to inspiring wider adoption among government departments.

Besides, OGCIO will set up the “Smart Lab” thematic website to share the challenges being faced by different public services, and invite the industry to submit technology solutions and product suggestions for addressing such challenges. OGCIO will organise technology forums in collaboration with Cyberport and Hong Kong Science Park for the industry players to share their technology solutions and success stories, and how these technologies can be applied to improve public services. Local start-ups and small and medium-sized enterprises joining the forums can better understand and appreciate the business needs of government departments, and submit proposals to the “Smart Lab” for addressing different challenges in city management. We aim to organise the first technology forum in June 2019, and then hold it on a quarterly basis. OGCIO will upload the technology solutions and suggestions received to the “Smart Lab” thematic website and arrange thematic workshops for government departments so that they could better understand the solutions and products that suit their needs, and proceed with trials and technology testing for suitable solutions in the “Smart Lab”.

The estimated expenditure for the “Smart Lab” in 2019-20 is about \$4.9 million. OGCIO will create 4 Information Technology (IT) profession civil service posts for the related work.

- (3) In the past year, OGCIO contacted various government departments, including the Leisure and Cultural Services Department, the Hong Kong Police Force, the Transport Department, the Customs and Excise Department, the Environmental Protection Department, the Intellectual Property Department and the Companies Registry, etc., to explore in collaboration with their IT officers the public services that can adopt innovative proposals. These services include: preventing ticket scalping with anti-bot programmes, performing smart customs clearance with big data analytics, supporting crowd and traffic control with AI and big data analytics, enhancing the handling of illegal dumping cases, the relevant procedures for intellectual property trading, and the relevant procedures for company registration, etc. with blockchain and other related technologies.

- End -

CONTROLLING OFFICER'S REPLY

ITB078

(Question Serial No. 1213)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): (000) Operational expenses

Programme: (4) Infrastructural Support

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

As indicated in Programme (5), the Innovation and Technology Commission worked closely with the Hong Kong Science and Technology Parks Corporation (HKSTPC) on various infrastructural support plans including the development of the Data Technology Hub (DT Hub) under the revised Industrial Estate (IE) policy. Please inform this Committee of the following:

1. Under the existing IE policy, what are the respective numbers of DT Hubs (a) in operation and (b) under construction in the IE sites under the HKSTPC?
2. Further to the above question, please list in tabular form (i) the names of the operators; (ii) the usable floor area (UFA) currently in use; (iii) the UFA under construction or approved for construction; and (iv) the rent payable by the operators to the HKSTPC of the DT Hubs mentioned above.
3. What are the Government's measures to regulate the operators of the DT Hubs mentioned above? Do the lease terms of the IEs prohibit the operators from assigning or subletting the premises to any third party?
4. What measures or actions were taken by the HKSTPC in the past 3 years to ensure the operators abide by the related terms? In respect of the related work carried out by the Government to oversee the HKSTPC, what are the details and the staffing establishment?

Asked by: Hon AU Nok-hin (LegCo internal reference no.: 38)

Reply:

A consolidated reply to various parts of the question is as follows:

In line with the Government's re-industrialisation policy, the Hong Kong Science and Technology Parks Corporation (HKSTPC) is building a Data Technology Hub (DT Hub) in

the Tseung Kwan O Industrial Estate (IE), which is expected to be completed in 2020 with a gross floor area (GFA) of about 27 000 m². The DT Hub will provide a purpose-designed infrastructure for the data technology and telecommunications services industry, as well as general supporting facilities including a business centre, showcase arena and offices, etc.

At present, 12 sites with a GFA of about 356 000 m² in the Yuen Long, Tai Po and Tseung Kwan O IEs under the HKSTPC have been granted to 10 data centre operators. A directory of the data centre operators in the IEs is available on the HKSTPC website:

<https://www.hkstp.org/en/reach-us/company-directory/?i=&t=Tenant%20Industrial%20Estate&c=1&s=8>

The HKSTPC has an established system for approving applications for sites in the IEs and managing the overall operation of the IEs. After the grant of land, all grantees in the IEs are required to sign with the HKSTPC a lease agreement which stipulates that only approved operations or other operations agreed in writing by the HKSTPC can be carried out in the premises, and that subletting of the premises to other parties is not allowed. The HKSTPC will conduct site inspection of the premises on a regular basis. If a grantee is found to be in breach of the terms and conditions of the lease agreement, the HKSTPC will take actions in accordance to the lease terms.

In the past 3 years, the HKSTPC conducted a total of over 50 inspections on the data centre operators, including those for certain complaints alleging non-compliance of the operators. Nevertheless, no non-compliance was identified. The HKSTPC has also taken appropriate measures to remind the relevant operators to comply with the lease agreements.

The Government has been monitoring the work of the HKSTPC through participation in the Board of Directors of the HKSTPC and close communication with its management. The relevant work is part of the daily operation of the Innovation and Technology Commission being absorbed by its existing manpower. Breakdown of the manpower and expenditure is not available.

- End -

CONTROLLING OFFICER'S REPLY

ITB079

(Question Serial No. 1216)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): (000) Operational expenses

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please advise this Committee on whether there is any policy under the Innovation and Technology Fund Internship Programme (IP) to prevent organisation heads of start-ups from hiring each other and thus receiving remuneration from the IP. If yes, how many similar cases were found in the past 5 years? If no, does the Government plan to review the mechanism and formulate relevant precautionary measures or promotion work?

Asked by: Hon AU Nok-hin (LegCo internal reference no.: 16)

Reply:

Under the Innovation and Technology Fund Researcher Programme (formerly known as Internship Programme), a researcher a private company applies to engage under the Programme shall be employed on a full-time basis to assist in the company's research and development work. Besides, the recruitment procedures of researchers must be fair and open. Applicant companies shall declare in their applications the compliance with the said requirements in respect of the researchers to be engaged. Where in doubt, the Innovation and Technology Commission (ITC) will seek supplementary information from the applicant companies, including the curricula vitae of the researchers and the relevant recruitment advertisements. ITC and the organisations that assist in implementing the Programme (i.e. the Hong Kong Science and Technology Parks Corporation and Hong Kong Cyberport Management Company Limited) will visit the applicant companies from time to time during the engagement period of the researchers to learn about the actual situation of their engagement. Where any false representation of information (including the actual work situation of the researchers) is found to be made by the applicant companies in the applications or progress reports, ITC may revoke the applications approved, require the applicant companies to return the funding disbursed, and refer the cases to law enforcement agencies for follow-up actions.

ITC has not identified any cases where company heads hired each other.

- End -

CONTROLLING OFFICER'S REPLY**ITB080****(Question Serial No. 1221)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the Guangdong-Hong Kong Technology Co-operation Funding Scheme (TCFS), please inform this Committee of the following:

1) Please list in tabular form the details of the TCFS applications in the past 5 years, including (i) the number of applications, (ii) the number of applications approved, (iii) the amount of funding approved, with a breakdown by (iv) Category A(1) "projects administered by the research and development centres", (v) Category A(2) "projects administered by the Innovation and Technology Commission", (vi) Category B "projects administered solely by Guangdong or Shenzhen", (vii) Category C(1) "projects jointly funded by Guangdong and Hong Kong" and (viii) Category C(2) "projects jointly funded by Shenzhen and Hong Kong".

	2014 iv, v, vi, vii, viii	2015 iv, v, vi, vii, viii	2016 iv, v, vi, vii, viii	2017 iv, v, vi, vii, viii	2018 iv, v, vi, vii, viii
(i) Number of applications					
(ii) Number of applications approved					
(iii) Amount of funding approved					

2) Please list in tabular form the details of the funding approved by the Government for projects in Category A(1) in the past 5 years, including (i) the number of applications, (ii) the number of applications approved, (iii) the amount of funding approved, with a breakdown by specific themes.

	2014 i ii iii	2015 i ii iii	2016 i ii iii	2017 i ii iii	2018 i ii iii
(a1) Green Transportation Technology Development					
(a2) Smart Mobility Development					
(a3) Material & Manufacture Technology					
(b1) Sustainability					
(c1) Internet of Things technologies and applications for Guangdong-Hong Kong logistics and supply chain industries					
(c2) Key enabling technologies for Guangdong-Hong Kong's logistics automation and robotics applications					
(c3) Key logistics and supply chain management technologies and applications for "Smart City" in Guangdong-Hong Kong area					
(c4) Enabling logistics and supply chain management/block chain technologies for upgrading servicing industries in Guangdong-Hong Kong area					
(c5) Key technologies and applications to enhance supply chain security in Guangdong-Hong Kong area					
(c6) Cloud technologies and analytic applications for Guangdong-Hong Kong logistics and supply chain management industries					
(d1) Mobile Edge Computing Applications with low network latency and enhanced user experience					
(d2) Millimetre Wave Antenna Array enabled Applications					
(d3) Smart Power & Energy					
(e1) Nano/advanced materials for sustainable energy					
(e2) Nano/advanced materials and technologies for display and solid-state lighting including printable electronics					
(e3) Construction/building nano and advanced materials for applications					
(e4) Nano/advanced materials and technologies for environmental applications					
(e5) Nano/advanced materials and technologies for bio and healthcare applications					

3) Please list in tabular form the details of the funding approved by the Government for projects in Category A(2) in the past 5 years, including (i) the number of applications, (ii) the number of applications approved, (iii) the amount of funding approved, with a breakdown by specific themes.

	2014 i ii iii	2015 i ii iii	2016 i ii iii	2017 i ii iii	2018 i ii iii
(a) Advanced internet applied technologies					
(b) Advanced information and communications applied technologies					
(c) Advanced intelligent multimedia applied technologies					
(d) Advanced manufacturing equipment and key technologies					
(e) Applied information security technologies					
(f) Biotechnology					
(g) Chinese medicines					
(h) Environmental technology					
(i) Electronics					
(j) New materials applied technologies					
(k) Testing and certification					

4) Please list in tabular form the details of the funding approved by the Government for projects in Category C(1) in the past 5 years, including (i) the number of applications, (ii) the number of applications approved, (iii) the amount of funding approved, with a breakdown by specific themes.

	2014 i ii iii	2015 i ii iii	2016 i ii iii	2017 i ii iii	2018 i ii iii
(a) Mobile internet					
(b) Big data technology					
(c) Advanced manufacturing equipment					
(d) Intelligent robotics					
(e) New materials					
(f) New energy					
(g) Energy conservation and environmental protection (air and water pollution control)					
(h) Biotechnology					
(i) Food safety					

5) Please list in tabular form the details of the funding approved by the Government for projects in Category C(2) in the past 5 years, including (i) the number of applications, (ii) the number of applications approved, (iii) the amount of funding approved, with a breakdown by specific themes.

	2014 i ii iii	2015 i ii iii	2016 i ii iii	2017 i ii iii	2018 i ii iii
(a) Internet					
(b) Biology					
(c) New energy					
(d) New materials					
(e) New generation information technology					
(f) Energy conservation and environmental protection					
(g) Marine					
(h) Aviation and aerospace					
(i) Life and health					
(j) Robotics					
(k) Wearable device and intelligent equipment					
(l) Financial technology					
(m) Advanced manufacturing technology					
(n) Safe production					
(o) Resource environment					
(p) Technology areas relating to the improvement of people's livelihood					

Asked by: Hon AU Nok-hin (LegCo internal reference no.: 28)

Reply:

The requested information is provided below:

- (1) A total of 334 applications of projects under Category A and Category C of the Guangdong-Hong Kong Technology Co-operation Funding Scheme (TCFS) were received in the past 5 years (i.e. 2014 to 2018). During the same period, 58 projects were approved with a total funding of about \$113 million. Details of the applications received and approved are listed below by year. Applications under Category B are submitted directly to and administered by the relevant Guangdong or Shenzhen authorities. The Innovation and Technology Commission does not have the relevant statistical figures.

Year	Number of applications (Note 1)	Projects approved (Note 2)	Funding amount approved (\$ million)
2014	0	12	24.93
2015	98	16	45.05
2016	83	10	12.7
2017	0	17	26.48
2018	153	3	3.97

Note 1: No TCFS applications were invited in 2014 and 2017.

Note 2: Applications under Category C (i.e. projects jointly funded by Guangdong/Shenzhen and Hong Kong) of the TCFS received in 2018 are still subject to vetting by the Mainland side.

(2) - (5) The summary of the projects approved under the TCFS (including the title, technology area and funding amount, etc.) is available on the Innovation and Technology Fund website: https://www.itf.gov.hk/1-eng/prj_search_index.asp. Reference numbers of the approved projects are listed in the Annex by year.

- End -

Guangdong-Hong Kong Technology Co-operation Funding Scheme

(Projects approved from 2014 to 2018)

2014	2016	2018
<u>Category A(2)</u>	<u>Category A(2)</u>	<u>Category A(1)</u>
GHP/020/13	GHP/041/14	GHP/033/17AP
GHP/030/13	<u>Category C(1)</u>	<u>Category A(2)</u>
<u>Category C(2)</u>	GHP/003/16GD	GHX/017/18
GHP/001/13AZ	GHP/004/16GD	<u>Category C(1)</u>
GHP/002/13SZ	GHP/012/16GD	GHP/046/17GD
GHP/007/13SZ	GHP/024/16GD	
GHP/012/13SZ	GHP/025/16GD	
GHP/014/13SZ	GHP/030/16GD	
GHP/022/13SZ	GHP/034/16GD	
GHP/025/13SZ	GHX/001/16GD	
GHP/031/13SZ	<u>Category C(2)</u>	
GHP/038/13SZ	GHX/002/14SZ	
GHX/003/13SZ		
2015	2017	
<u>Category A(1)</u>	<u>Category A(2)</u>	
GHP/057/14AP	GHP/055/17	
<u>Category A(2)</u>	GHX/004/17	
GHP/048/14	<u>Category C(1)</u>	
GHP/053/14	GHP/007/17GD	
<u>Category C(1)</u>	GHP/008/17GD	
GHP/050/14GD	GHP/022/17GD	
<u>Category C(2)</u>	GHP/040/17GD	
GHP/018/13SZ	GHP/042/17GD	
GHP/006/14SZ	GHP/076/17GD	
GHP/007/14SZ	GHX/002/17GD	
GHP/009/14SZ	<u>Category C(2)</u>	
GHP/010/14SZ	GHP/011/17SZ	
GHP/015/14SZ	GHP/021/17SZ	
GHP/016/14SZ	GHP/025/17SZ	
GHP/017/14SZ	GHP/036/17SZ	
GHP/028/14SZ	GHP/057/17SZ	
GHP/029/14SZ	GHP/071/17SZ	
GHP/043/14SZ	GHP/079/17SZ	
GHP/055/14SZ	GHX/005/17SZ	

CONTROLLING OFFICER'S REPLY**ITB081****(Question Serial No. 3164)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development, (2) Promotion of Technological Entrepreneurship

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Budget states that in respect of applied research and development (R&D), funding for Technology Transfer Offices of universities, the Technology Start-up Support Scheme for Universities, State Key Laboratories and Hong Kong Branches of the Chinese National Engineering Research Centre will be increased. It is learned that there are a total of 16 Partner State Key Laboratories and 6 Hong Kong Branches of Chinese National Engineering Research Centres established in Hong Kong with the approval of the Ministry of Science and Technology. Please inform this Committee, in tabular form, of the amount of funding provided by the Government for each of the above items in the past 5 years (2014-2018).

Asked by: Hon CHAN Chi-chuen (LegCo internal reference no.: 43)

Reply:

The funding provided, through the Innovation and Technology Fund, to the relevant institutions/scheme in the past 5 financial years is as follows:

Funded institutions/ scheme	Funding amount (\$ million)				
	2014-15	2015-16	2016-17	2017-18	2018-19 (Estimate) (Note 1)
Technology Transfer Offices of universities	23.91	23.85	23.99	23.83	24
Technology Start-up Support Scheme for Universities	17.19	21.12	21.79	23.42	24

Funded institutions/ scheme	Funding amount (\$ million)				
	2014-15	2015-16	2016-17	2017-18	2018-19 (Estimate) (Note 1)
State Key Laboratories (Note 2)	80	80	80	80	80
Hong Kong Branches of Chinese National Engineering Research Centres	4.69	17.05	29.82	29.93	30

Note 1: The estimated funding amounts in 2018-19 are the maximum funding for the relevant institutions/scheme. Since the above funding is provided on an annual reimbursement basis, the funded institutions will submit funding applications only after the end of each financial year. Therefore, the actual funding amounts are subject to confirmation upon approval of the applications concerned.

Note 2: The Partner State Key Laboratories were officially renamed as State Key Laboratories by the Minister of Science and Technology in September 2018.

- End -

CONTROLLING OFFICER'S REPLY

ITB082

(Question Serial No. 3165)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in paragraph 77 of the Budget that the Government will increase the monthly allowance for researchers under the Innovation and Technology Fund Internship Programme (IP), and extend the funding period of the IP and the Postdoctoral Hub Programme to 3 years. Please advise this Committee, in tabular form, on the numbers and respective percentages of local and non-local residents among the researchers funded by these 2 programmes, as well as the number and percentage of Mainland residents among the non-local residents.

Asked by: Hon CHAN Chi-chuen (LegCo internal reference no.: 44)

Reply:

In order to enhance the nurturing of innovation and technology (I&T) talents and encourage them to pursue a career in I&T, the Internship Programme (now known as the Researcher Programme) and the Postdoctoral Hub were launched in 2004 and 2018 respectively to provide funding support to research and development (R&D) projects funded by the Innovation and Technology Fund, incubatees and I&T tenants of the Hong Kong Science and Technology Parks Corporation and Cyberport, and local I&T start-ups selected for co-investment under the Innovation and Technology Venture Fund to recruit researchers and postdoctoral talents for R&D work. In financial year 2018-19 (as at end January 2019), 632 and 360 applications for engagement of researchers and postdoctoral talents were approved respectively, of which 424 (67%) researchers and 147 (41%) postdoctoral talents are Hong Kong permanent residents. We do not have information about the nationalities of the researchers/postdoctoral talents who are non-Hong Kong permanent residents.

- End -

CONTROLLING OFFICER'S REPLY**ITB083****(Question Serial No. 3743)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please list out in tabular form the number of local enterprises that applied for technology vouchers, the number of medium enterprises and start-ups involved, the success rate and failure rate of application, as well as the total amount of funding so far approved under the Technology Voucher Programme since its launch.

Asked by: Hon CHAN Chi-chuen (LegCo internal reference no.: 66)

Reply:

Since the launch of the Technology Voucher Programme (TVP) in November 2016 up to end February 2019, the Innovation and Technology Commission received a total of 1 565 applications. The number of employees and duration of operation of the applicants are as follows:

Number of employees	Number of applications
1-9	920
10-19	346
20-29	123
30-39	69
40-49	47
50-99	42
100 or above	18

Duration of operation	Number of applications
2 years or below	230
More than 2 years to 5 years	344
More than 5 years to 10 years	339
More than 10 years	652

As at end February 2019, 1 114 applications have been assessed by the TVP Committee, of which 1 063 have been approved, representing a success rate of 95% and involving a total funding of about \$149 million.

- End -

CONTROLLING OFFICER'S REPLY

ITB084

(Question Serial No. 3771)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

As mentioned in the Policy Address, the Government has proposed to allocate \$2 billion for launching a “Re-industrialisation Funding Scheme” to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong, and also recommended providing an additional allocation of \$2 billion for the Hong Kong Science and Technology Parks Corporation to identify suitable land in industrial estates for building manufacturing facilities required by the dedicated advanced manufacturing sector. In this connection, please advise on the details on the proposed provisions, as well as the manpower and expenditures involved.

Asked by: Hon CHAN Chi-chuen (LegCo internal reference no.: 116)

Reply:

The Government plans to inject \$2 billion into the Innovation and Technology Fund for launching a Re-industrialisation Funding Scheme (the Scheme) to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong, with a view to expediting the realisation of “re-industrialisation”. We are formulating the operational details of the Scheme, including the eligibility criteria, the funding scope, mode and amount, as well as the vetting mechanism, etc. in consultation with the industries. Besides, the Government plans to make an additional allocation of \$2 billion to the Hong Kong Science and Technology Parks Corporation to identify suitable land in the industrial estates for developing manufacturing facilities required by dedicated advanced manufacturing. We will consult the Legislative Council (LegCo) Panel on Commerce and Industry on these 2 initiatives in May 2019 before seeking funding approval from the LegCo Finance Committee, with a view to taking them forward in the second half of this year.

The 2 new initiatives are the respective work under Programme (3) Planning for Innovation and Technology Development and Programme (4) Infrastructural Support. The

establishments under Programmes (3) and (4) involve 64 and 47 staff respectively in 2019-20, while the estimated expenditures are \$152.5 million and \$59.6 million respectively, which are mainly for salaries and departmental expenses. We do not have a breakdown of expenditure for individual work.

- End -

CONTROLLING OFFICER'S REPLY

ITB085

(Question Serial No. 2558)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Chief Executive proposed in the 2018 Policy Address the allocation of \$500 million for organising an annual City Innovation and Technology Grand Challenge (Grand Challenge) in the next 5 years, so as to step up efforts to create a fervid innovation and technology (I&T) atmosphere. Matters requiring special attention of the Innovation and Technology Bureau this year include overseeing the launch of the Grand Challenge. Will the Government inform this Committee of:

- 1) the details and implementation schedule of the Grand Challenge;
- 2) the amount of provision and manpower to be allocated this year to implement the Grand Challenge; and
- 3) the ways to measure the actual benefits of the said I&T atmosphere to be created by the Grand Challenge?

Asked by: Hon CHAN Chun-ying (LegCo internal reference no.: 35)

Reply:

A consolidated reply to the various parts of the question is given below:

The Government has allocated \$500 million to organise the annual City Innovation and Technology Grand Challenge (Grand Challenge), which will openly invite members from all walks of life in the community to put forward solutions with I&T elements with respect to issues that are closely related to daily lives. Shortlisted participants passing the preliminary assessment will be arranged to attend different skills workshops which will assist them in refining their concepts and formulating detailed proposals for taking part in the final competition. We will select from the winning entries one or more solutions and assist their development of the technologies or concepts involved for trials in suitable public sector organisations, so as to realise and enhance the solutions for tackling vexing problems

in the community with I&T. In addition to cash prize, winners may be offered the opportunity to join support programmes of the Hong Kong Science and Technology Parks Corporation.

The Innovation and Technology Commission (ITC) has earmarked \$70 million in the 2019-20 financial year for the implementation of the Grand Challenge. The provision earmarked will be used to provide cash prize and other awards, support the refinement, development and trial of selected solutions, organise skills workshops, and cover the costs of competition venues, publicity and promotion as well as other expenses for organising the competition, etc.

ITC will create 1 time-limited Executive Officer I post in 2019-20 to assist in the implementation of the Grand Challenge, and the estimated annual salary expenditure is about \$770,000.

We hope to raise the awareness on I&T among all sectors of the community through the Grand Challenge, promote the use of I&T to tackle problems encountered in daily lives, as well as inspire and encourage more young people to pursue a career in I&T. We will consider suitable ways to assess the effectiveness when formulating details for the Grand Challenge.

- End -

CONTROLLING OFFICER'S REPLY**ITB086****(Question Serial No. 2924)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the Technology Talent Admission Scheme (TechTAS), will the Government inform this Committee of the following:

1) Please tabulate, by type of companies, the number of applicant companies of the TechTAS last year.

2018

	Incubatees	Tenants or occupants
Hong Kong Science and Technology Parks Corporation		
Cyberport		

2) Please tabulate, by business nature of companies, (i) the number of applicant companies; and (ii) the total number of non-local persons recruited under the TechTAS last year.

2018

	(i) Number of companies	(ii) Total number of non-local persons recruited under the TechTAS
Artificial intelligence		
Biotechnology		
Cybersecurity		
Data analytics		
Financial technologies		
Material science		
Robotics		

3) Please tabulate (i) the number of job positions created under the TechTAS; and (ii) the median monthly salary of last year.

2018

	(i) Number of job positions	(ii) Median monthly salary
Artificial intelligence		
Biotechnology		
Cybersecurity		
Data analytics		
Financial technologies		
Material science		
Robotics		

4) Please tabulate (i) the names of the top 10 companies in terms of the number of quotas applied under the TechTAS last year; and (ii) the respective number of quotas applied.

2018

	(i) Name of company	(ii) Number of quotas applied
1 st		
2 nd		
3 rd		
4 th		
5 th		
6 th		
7 th		
8 th		
9 th		
10 th		

Asked by: Hon CHAN Tanya (LegCo internal reference no.: 14)

Reply:

The requested information is provided below:

(1) and (2) The Technology Talent Admission Scheme (TechTAS) was launched in June 2018. As at end-February 2019, a total of 226 quota applications were received by the Innovation and Technology Commission (ITC), among which 225 quotas have been allotted to 38 eligible technology companies/institutes. The statistics on the numbers of companies with quotas allotted under the TechTAS by their respective locations, business areas and numbers of quotas applied are as follows:

Type	Incubatees	Tenants, grantees or occupants	Total
Location			
Hong Kong Science and Technology Parks Corporation	5	18	23
Cyberport	5	10	15
			38

Number of quotas applied \ Business area	1-5	6-10	11-20	21-50
Data analytics	10	2	2	0
Financial technologies	10	4	1	1
Artificial intelligence	7	2	2	2
Cybersecurity	4	1	2	0
Robotics	3	1	1	0
Biotechnology	3	1	0	0
Material science	2	2	0	0

Note: Figures may not add up to the total number of technology companies/institutes with quotas allotted, since each technology company/institute may engage in more than one business areas.

- (3) As at end-February 2019, a total of 50 applications of visa/entry permit were received by the Immigration Department, of which 40 have been approved. The statistics on the numbers of non-local persons approved for entry under the TechTAS by their respective technology areas and monthly remunerations are as follows:

Technology area	Number of non-local persons approved for entry under TechTAS
Financial technologies	13
Material science	9
Artificial intelligence	6
Data analytics	4
Cybersecurity	3
Robotics	3
Biotechnology	2
Total	40

Monthly Remuneration	Number of non-local persons approved for entry under TechTAS
\$20,000 to \$39,999	20
\$40,000 to \$79,999	16
\$80,000 or above	4
Total	40

- (4) We consider it inappropriate to disclose the number of quotas applied by individual companies as it involves commercial information such as the company's business and recruitment plans, etc.

- End -

CONTROLLING OFFICER'S REPLY**ITB087****(Question Serial No. 4351)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: Not Specified

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding its work in relation to the Code on Access to Information, will the Government advise this Committee on the following:

1) Concerning the requests for information under the Code on Access to Information received by the Innovation and Technology Commission (ITC) for which only some of the required information was provided, please state in table form: (i) the content of the requests for which only some of the required information was provided; (ii) the reasons for providing some of the information only; and (iii) how the requests were eventually handled.

Year

(i) Content of the requests for which only some of the required information was provided	(ii) Reasons for providing some of the information only	(iii) How the requests were eventually handled

2) Concerning the requests for information under the Code on Access to Information received by ITC for which the required information was not provided, please state in table form: (i) the content of the requests refused; (ii) the reasons for refusal; and (iii) how the requests were eventually handled.

Year

(i) Content of the requests refused	(ii) Reasons for refusal	(iii) How the requests were eventually handled

Asked by: Hon CHAN Tanya (LegCo internal reference no.: 95)

Reply:

A consolidated reply to the 2 parts of the question is as follows:

The required information was fully provided for all requests for information under the Code on Access to Information received by the Innovation and Technology Commission from January 2018 to September 2018. There was no request for which the required information was partially provided, nor the provision of the required information having been refused.

- End -

CONTROLLING OFFICER'S REPLY

ITB088

(Question Serial No. 5797)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: Not Specified

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the Postdoctoral Hub, please inform this Committee of the following:

1) Please provide in tabular form the latest application details of each Postdoctoral Hub, including (i) the number of applications; and (ii) the number of applications approved, with a breakdown by status as (iii) a Hong Kong permanent resident; and (iv) a non-Hong Kong permanent resident.

	(i) Number of applications iii iv	(ii) Number of applications approved iii iv
Postdoctoral Hub for ITF projects (PH-ITF)		
Postdoctoral Hub for Incubatees and Innovation and Technology Tenants of the Hong Kong Science and Technology Parks Corporation and Hong Kong Cyberport Management Company Limited (PH-SPC)		
Postdoctoral Hub for Investee Companies of the Innovation and Technology Venture Fund (PH-ITVF)		

2) Please provide in tabular form the distribution of latest applications approved for each Postdoctoral Hub, including (i) the number of approved postdoctoral talent with a doctoral degree from a local university; (ii) the amount of allowance for local postdoctoral talent; (iii) the number of approved postdoctoral talent with a doctoral degree from a non-local institution; and (iv) the amount of allowance for non-local postdoctoral talent.

	(i) Number of approved postdoctoral talent with a doctoral degree from a local university	(ii) Amount of allowance for local postdoctoral talent	(iii) Number of approved postdoctoral talent with a doctoral degree from a non-local institution	(iv) Amount of allowance for non-local postdoctoral talent
PH-ITF				
PH-SPC				
PH-ITVF				

3) Please provide in tabular form a breakdown by academic qualifications of the postdoctoral talent with doctoral degree from a non-local institution, including those from an institution listed on Quacquarelli Symonds World University Rankings ((i) Engineering and Technology, (ii) Life Science and Medicine, (iii) Natural Sciences); Shanghai Jiao Tong University (Academic Ranking of World Universities) ((iv) Life and Agriculture Sciences (LIFE), (v) Natural Sciences and Mathematics (SCI), (vi) Engineering/Technology and Computer Sciences (ENG), (vii) Clinical Medicine and Pharmacy (MED)); Times Higher Education World University Rankings ((viii) Engineering and Technology, (ix) Computer Science, (x) Life Sciences, (xi) Physical Sciences, (xii) Clinical, Pre-clinical and Health); and those from universities outside the world university ranking tables.

	Quacquarelli Symonds World University Rankings i ii iii	Shanghai Jiao Tong University (Academic Ranking of World Universities) iv v vi vii	Times Higher Education World University Rankings viii ix x xi xii	Doctoral degrees from universities outside the world university ranking tables
PH-ITF				
PH-SPC				
PH-ITVF				

4) Please provide in tabular form the details of postdoctoral talent participating in the Technology Talent Admission Scheme (TechTAS), including the (i) non-local technology talent admitted with the quotas allotted under the TechTAS; (ii) non-local technology talent already applied for the TechTAS; (iii) local talent recruited under the requirements of the TechTAS; and (iv) those unrelated to the TechTAS.

	(i) Non-local technology talent admitted with the quotas allotted under TechTAS	(ii) Non-local technology talent who have applied for TechTAS	(iii) Local talent recruited under the requirements of TechTAS	(iv) Unrelated to TechTAS
PH-ITF				
PH-SPC				
PH-ITVF				

5) Please provide in tabular form a list of the latest participating organisations, including (i) the number of approved postdoctoral talent with a doctoral degree from a local university; and (ii) the number of approved postdoctoral talent with a doctoral degree from a non-local institution, with breakdown by status as (iii) a Hong Kong permanent resident; and (iv) a non-Hong Kong permanent residents.

	(i) Number of approved postdoctoral talent with a doctoral degree from a local university iii iv	(ii) Number of approved postdoctoral talent with a doctoral degree from a non-local institution iii iv
(Name of participating organisation)		

Asked by: Hon CHAN Tanya (LegCo internal reference no.: 182)

Reply:

The requested information is provided below:

- (1) As at end January 2019, 380 applications were received under the Postdoctoral Hub, of which 360 were approved. The statistics by the background of the applicant organisations and Hong Kong residency status of postdoctoral talent are as follows:

Background of the applicant organisations Note 1	Number of applications received	Number of applications approved	
Organisations funded by the Innovation and Technology Fund (ITF)	298	283	
		Hong Kong permanent residents	Non-Hong Kong permanent residents
		92	191
Incubatees/Innovation and Technology (I&T) tenants of the Hong Kong Science and Technology Parks Corporation (HKSTPC) or the Cyberport	82	77	
		Hong Kong permanent residents	Non-Hong Kong permanent residents
		55	22
Total	380	360	
		Hong Kong permanent residents	Non-Hong Kong permanent residents
		147	213

Note 1: As co-investment in local I&T start-ups has yet to be made under the Innovation and Technology Venture Fund, no application under this category has been received as at end January 2019.

- (2) The statistics on the number of applications approved and the amount of funding approved under the Postdoctoral Hub, with breakdown by the background of the applicant organisations and location of institution from which the postdoctoral talent was awarded a doctoral degree, as at end January 2019 are as follows:

Background of the applicant organisations	Number of applications approved		Amount of funding approved (\$ million)	
	With a doctoral degree from a local university	With a doctoral degree from a non-local institution	With a doctoral degree from a local university	With a doctoral degree from a non-local institution
Organisations funded by the ITF	232	51	112.9	24.3
Incubatees/I&T tenants of the HKSTPC or the Cyberport	64	13	36.2	6.9
Total	360		180.3	

- (3) The statistics on postdoctoral talents with a doctoral degree from a non-local university among the applications approved under the Postdoctoral Hub, with breakdown by their academic qualifications and the background of the applicant organisations, as at end January 2019 are as follows:

Background of the applicant organisations	Organisations funded by the ITF	Incubatees/I&T tenants of the HKSTPC or the Cyberport
Academic qualifications		
Quacquarelli Symonds (QS) World University Rankings (among the top 100 ^{Note 2)})		
Engineering and Technology	10	4
Life Science and Medicine	5	3
Natural Sciences	12	2
Times Higher Education World University Rankings (among the top 100 ^{Note 2)})		
Engineering and Technology	8	3
Computer Science	0	0
Life Sciences	1	0
Physical Sciences	1	0
Clinical, Pre-clinical and Health	1	0
Shanghai Jiao Tong University (Academic Ranking of World Universities) (among the top 100 ^{Note 2)})		
Life and Agriculture Sciences (LIFE)	0	0
Natural Sciences and Mathematics (SCI)	4	1
Engineering/Technology and Computer Sciences (ENG)	9	0
Clinical Medicine and Pharmacy (MED)	0	0
Doctoral degrees from universities outside the world university ranking tables	0	0
Total	51	13

Note 2: Based on the world university rankings as at the submission date of the applications

- (4) The statistics on the number of applications approved under the Postdoctoral Hub as related to the Technology Talent Admission Scheme (TechTAS) as at end January 2019 are as follows:

Background of organisations funded under the Postdoctoral Hub	Non-local technology talent admitted with quotas allotted	Non-local technology talent who have applied for quotas	Local talent recruited under the TechTAS requirements	Unrelated to TechTAS
Organisations funded by the ITF	4	Only those applications from persons who are permitted to work in Hong Kong will be approved under the Postdoctoral Hub. As such, situations that a quota application is only made under the TechTAS after funding has been approved under the Postdoctoral Hub would not happen.	10	269
Incubatees/I&T tenants of the HKSTPC or the Cyberport	2		1	74
Total	6	/	11	343
360				

- (5) The statistics on the applications approved under the Postdoctoral Hub, with breakdown by the applicant organisations, location of institution from which the postdoctoral talent was awarded a doctoral degree, and Hong Kong residency status, as at end January 2019 are as follows:

Organisation funded by the Postdoctoral Hub	Number of applications approved			
	With a doctoral degree from a local university		With a doctoral degree from a non-local institution	
	Hong Kong permanent residents	Non-Hong Kong permanent residents	Hong Kong permanent residents	Non-Hong Kong permanent residents
The University of Hong Kong	7	15	1	4
The Chinese University of Hong Kong	12	34	3	16
City University of Hong Kong	9	23	0	10
The Hong Kong University of Science and Technology	14	28	2	7
Hong Kong Baptist University	4	5	0	0
The Education University of Hong Kong	0	1	0	0
The Hong Kong Polytechnic University	14	17	0	2
Hong Kong Productivity Council	6	3	0	0
Automotive Parts and Accessory Systems R&D Centre	2	3	0	0
Logistics and Supply Chain MultiTech R&D Centre	1	3	0	0
Hong Kong Research Institute of Textiles and Apparel	4	10	0	2
Hong Kong Applied Science And Technology Research Institute	6	3	0	1
Nano and Advanced Materials Institute	1	1	0	1
Private companies	52	18	9	6
Total	132	164	15	49
	360			

- End -

CONTROLLING OFFICER'S REPLY

ITB089

(Question Serial No. 6040)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please list the relevant information of the Technology Talent Admission Scheme (TechTAS):

1. What are the numbers of applications received and approved?
2. What are the respective numbers of talents admitted from the Mainland and other countries?
3. Has the Government continuously monitored the situation of the persons upon their admission to Hong Kong under the TechTAS? If yes, how many of them continue to work in the same company?

Asked by: Hon CHAN Tanya (LegCo internal reference no.: 284)

Reply:

The requested information is provided below:

- (1) The Technology Talent Admission Scheme (TechTAS) was launched in June 2018. As at end-February 2019, a total of 226 quota applications were received by the Innovation and Technology Commission, among which 225 quotas have been allotted while the remaining one is being processed.
- (2) As at end-February 2019, a total of 50 applications of visa/entry permit were received by the Immigration Department (ImmD), of which 40 have been approved. The statistics on the non-local persons approved for entry under the TechTAS by their respective regions are as follows:

Region	Number of non-local persons approved for entry under TechTAS
Mainland China	29
Taiwan	2
Southeast Asia	5
Others	4
Total	40

- (3) Persons admitted under the TechTAS shall only take the employment as approved by the Director of Immigration. They should seek prior approval from the Director of Immigration for any change in employment. The ImmD does not possess the statistics mentioned in the question.

- End -

CONTROLLING OFFICER'S REPLY

ITB090

(Question Serial No. 6041)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (2) Promotion of Technological Entrepreneurship

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please advise whether there were cases in which funding support was terminated for projects funded under the Small Entrepreneur Research Assistance Programme or the Enterprise Support Scheme of the Innovation and Technology Commission in the past 2 financial years. If yes, what are the reasons and the figures?

Asked by: Hon CHAN Tanya (LegCo internal reference no.: 285)

Reply:

During the project period, enterprises are required to seek prior approval from the Innovation and Technology Commission (ITC) should they wish to apply for early termination of their funded projects with specific reasons provided. In the past 2 financial years, ITC received 4 applications for withdrawal of the projects approved under the Enterprise Support Scheme (ESS). Upon consideration of the justifications provided by the enterprises (such as change of business strategies in response to market changes) and the spending position of the funded projects, ITC approved all the 4 applications and terminated the projects as well as their funding support.

The Small Entrepreneur Research Assistance Programme (SERAP) has been replaced by the ESS since April 2015. In the past 2 years, we did not terminate any funding support for the on-going projects under the SERAP.

- End -

CONTROLLING OFFICER'S REPLY

ITB091

(Question Serial No. 6042)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): ()

Programme: (2) Promotion of Technological Entrepreneurship

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please list the relevant information of the talks and seminars organised by the Innovation and Technology Commission in the last financial year.

1. The number of talks and seminars organised
2. The contents of the talks and seminars
3. The guest lists of the talks and seminars, and the number of participants of the events
4. The statistics on the participants' feedback on the events

Asked by: Hon CHAN Tanya (LegCo internal reference no.: 286)

Reply:

A consolidated reply to the various parts of the question is as follows:

The aim of Programme (2) is to promote technological entrepreneurship in Hong Kong and provide essential support to technology-based entrepreneurial activities and technology research and development work in the private sector. In 2018-19, the Innovation and Technology Commission promoted the Enterprise Support Scheme and introduced the programme details to over 500 people through 6 talks and meetings. We neither have the attendance lists of these events nor the statistics on the participants' feedback.

- End -

CONTROLLING OFFICER'S REPLY

ITB092

(Question Serial No. 6043)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please list the estimated total amount of funding to be allocated from the Patent Application Grant in this financial year.

Asked by: Hon CHAN Tanya (LegCo internal reference no.: 287)

Reply:

The Patent Application Grant aims to encourage local companies and individual inventors who are first-time patent-seekers to protect and capitalise their R&D outcomes through patent registration. The maximum amount of grant for each approved application is \$250,000. In 2018-19 (as at end-January 2019), a total of 167 applications were approved, involving a total funding amount of \$41.75 million.

- End -

CONTROLLING OFFICER'S REPLY

ITB093

(Question Serial No. 6048)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please list the total amount of funding allocated from the Patent Application Grant in the last financial year.

Asked by: Hon CHAN Tanya (LegCo internal reference no.: 292)

Reply:

The Patent Application Grant aims to encourage local companies and individual inventors who are first-time patent-seekers to protect and capitalise their R&D outcomes through patent registration. The maximum amount of grant for each approved application is \$250,000. In 2017-18, a total of 180 applications were approved, involving a total funding amount of \$45 million.

- End -

CONTROLLING OFFICER'S REPLY

ITB094

(Question Serial No. 6055)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please provide the following details of the Government's support for innovation and technology in the last financial year:

- a. the forms or types of support, as well as the amount of provision and manpower involved; and
- b. the total number of projects supported, project types and specific types.

Asked by: Hon CHAN Tanya (LegCo internal reference no.: 299)

Reply:

A consolidated reply to both parts of the question is as follows:

The Innovation and Technology Commission (ITC), through various funding schemes under the Innovation and Technology Fund (ITF), funds projects that contribute to technology upgrading in our manufacturing and services industries to promote the long-term development of Hong Kong. Implementation of the funding schemes under the ITF are part of Programmes (1) Support for Research and Development, (2) Promotion of Technological Entrepreneurship and (3) Planning for Innovation and Technology Development. We do not have a breakdown of the manpower and expenditure involved in the implementation of the funding schemes.

Details of the number of projects and funding amount approved under various funding schemes in 2018-19 (as at end January 2019) are as follows:

	Funding scheme	2018-19 (as at end January 2019)
Supporting Research and Development		
1	Innovation and Technology Support Programme	
	Projects approved	185
	Amount of funding approved (\$ million)	520.8
2	Guangdong-Hong Kong Technology Cooperation Funding Scheme (TCFS)	
	Projects approved	1 ^{Note}
	Amount of funding approved (\$ million)	1.1
3	University-Industry Collaboration Programme	
	Projects approved	18
	Amount of funding approved (\$ million)	25.0
4	Enterprise Support Scheme	
	Applications supported	37
	Amount of funding involved for the applications supported (\$ million)	134.9
5	Research and Development Cash Rebate Scheme	
	Projects approved	274
	Amount of rebate approved (\$ million)	108.5
6	Midstream Research Programme for Universities	
	Projects approved	16
	Amount of funding approved (\$ million)	83.4
Facilitating Technology Adoption		
7	Public Sector Trial Scheme	
	Projects approved	29
	Amount of funding approved (\$ million)	48.7
8	Technology Voucher Programme	
	Projects approved	382
	Amount of funding approved (\$ million)	56.0
Nurturing Technology Talent		
9	Researcher Programme (formerly known as Internship Programme)	
	Number of researchers approved	632
	Amount of funding approved (\$ million)	177.5
10	Postdoctoral Hub	
	Number of postdoctoral talents approved	360
	Amount of funding approved (\$ million)	180.3
11	Reindustrialisation and Technology Training Programme	
	Number of staff of local enterprises approved	349
	Amount of funding approved (\$ million)	2.35
Promoting an Innovation and Technology Culture		
12	General Support Programme	
	Projects approved	20
	Amount of funding approved (\$ million)	29.3
13	Patent Application Grant	
	Projects approved	167

	Funding scheme	2018-19 (as at end January 2019)
	Amount of funding approved (\$ million)	41.8
Supporting Technology Start-ups		
14	Technology Start-up Support Scheme for Universities	
	Projects approved	64
	Amount of funding approved (\$ million)	24
15	Innovation and Technology Venture Fund	ITC is considering the investment proposals received.

^{Note} As the applications under Category C (i.e. projects to be jointly solicited, vetted and funded by Guangdong/Shenzhen and Hong Kong) of the TCFS in 2018 are still subject to vetting by the Mainland side, so far only 1 application under Category A (i.e. projects to be solicited, vetted and funded solely by Hong Kong) of the TCFS has been approved in 2018-19.

- End -

CONTROLLING OFFICER'S REPLY**ITB095****(Question Serial No. 7022)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: Not Specified

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

What are the number of applications received from venture capital (VC) funds for selection as co-investment partners (CP) under the fund (the Innovation and Technology Venture Fund (ITVF)) of the Innovation and Technology Venture Fund Corporation, and the number of applications approved so far?

Table 1: Number of applications for selection as CPs from VC funds and number of applications approved

(Year)	(Number of CPs)	(Number of applications approved)

Besides, please advise this Committee on (1) the specific work details and amount of provision every year since the launch of the ITVF; and (2) the work plan and estimated provision for the following year (2019)

Table 2: Work details of the ITVF since its launch

(Year)	(Work details)	(Amount of provision)

Table 3: Anticipated work plan for 2019

(Year)	(Work plan)

Table 4: Estimated expenditure for the anticipated work projects for 2019

(Year)	(Project)	(Estimated expenditure)

Lastly, please advise this Committee what organisations have received funding support from the ITVF since its launch if external funding is required for a project.

Table 5: Projects for which the organisations receiving funding support are responsible and the amount of funding support

(Year)	(Project title)	(Amount of funding support)	(Organisations that have received funding support)

Asked by: Hon CHEUNG Chiu-hung, Fernando (LegCo internal reference no.: 1056)

Reply:

A consolidated reply to the various parts of the question is as follows:

A total of 14 applications for selection as co-investment partners (CP) were received under the Innovation and Technology Venture Fund (ITVF). 6 selected venture capital funds signed a master agreement on co-investment under the ITVF in the third quarter of 2018. We have been receiving and are now actively considering the investment invitations and relevant proposals from the CPs. Following the completion of the relevant procedures, we will decide whether to make co-investment.

For 2019-20, we have earmarked \$800 million for the ITVF to invest with CPs. However, the actual pace of investment is subject to external factors including market environment and investment sentiment, etc.

- End -

CONTROLLING OFFICER'S REPLY**ITB096****(Question Serial No. 7080)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): ()

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Midstream Research Programme for Universities (MRP) was launched in 2016. Regarding the organisations and patent distribution involved under the MRP, please advise this Committee on the following:

(1) Please list in tabular form the number of applications received from organisations and the number of applications accepted, as well as the amount of funding support for each project under the MRP since its launch.

(Year)	(Number of applications)	(Number of applications approved)	(Projects approved)	(Amount of funding support)

(2) Please list in tabular form the details of the domestic organisations involved under the MRP since its launch, with a breakdown by (i) government departments/public bodies, (ii) companies/industry or trade associations, (iii) universities, (iv) other research institutions, (v) others (e.g. charitable trusts or prominent personalities in the field), and specify whether they are a (a) co-applicant, (b) sponsor or (c) supporting party.

(Project title)	(i) Government departments/public bodies	(ii) Companies/industry or trade associations	(iii) Universities	(iv) Other research institutions	(v) Others (e.g. charitable trusts or prominent personalities in the field)

(3) Please list in tabular form the details of the foreign organisations involved under the MRP since its launch, with a breakdown by (i) government departments/public bodies, (ii) companies/industry or trade associations, (iii) universities, (iv) other research institutions, or (v) others (e.g. charitable trusts or prominent personalities in the field), and specify whether they are a (a) co-applicant, (b) sponsor or (c) supporting party.

(Project title)	(i) Government departments/public bodies	(ii) Companies/industry or trade associations	(iii) Universities	(iv) Other research institutions	(v) Others (e.g. charitable trusts or prominent personalities in the field)

(4) Please list in tabular form the details of patent rights of each project, including (i) whether a patent is successfully obtained, and (ii) patent ownership.

(Year)	(Project title)	(i) Whether a patent is successfully obtained	(ii) patent ownership

Asked by: Hon CHEUNG Chiu-hung, Fernando (LegCo internal reference no.: 8619)

Reply:

The reply to the various parts of the question is as follows:

(1) to (3) Launched in 2016, the Midstream Research Programme for Universities (MRP) encourages universities funded by the University Grants Committee to conduct more theme-based midstream research and development projects, and promotes collaboration between these universities and other research institutions in Hong Kong and around the world. Funded projects consist of standalone projects and collaboration projects involving multiple disciplines or research institutions. The details of the MRP application and approval are as follows:

Year	Number of applications	Number of applications approved	Total amount of funding
2017	111	8	About \$33.6 million
2018	58	16	About \$83 million

References of the above approved projects are listed in the Annex. Once the applicant organisation has duly signed the project agreement, the project summary (including the title, funding amount, co-applicants and sponsorship (if any) etc.) will be available on the Innovation and Technology Fund website (https://www.itf.gov.hk/1-eng/prj_search_index.asp).

- (4) As all the projects are still underway, information on the patent rights of the projects is not available at this stage.

- End -

Approved projects under the Midstream Research Programme for Universities (MRP)

No.	Project Reference	
1	MRP/011/17X	@
2	MRP/020/17	*
3	MRP/037/17X	#
4	MRP/056/17X	@
5	MRP/066/17X	@
6	MRP/072/17X	@
7	MRP/092/17X	@
8	MRP/101/17X	#
9	MRP/001/18X	@#
10	MRP/008/18X	#
11	MRP/010/18	*
12	MRP/011/18	*
13	MRP/012/18X	#
14	MRP/015/18	*
15	MRP/018/18X	@
16	MRP/022/18X	@
17	MRP/026/18	*
18	MRP/029/18	*
19	MRP/036/18X	@
20	MRP/037/18	*
21	MRP/039/18X	#
22	MRP/040/18X	@
23	MRP/042/18X	@#
24	MRP/053/18X	@

@ Collaboration projects involving local co-applicants (i.e. universities or other research institutions)

Collaboration projects involving non-local co-applicants (i.e. universities or other research institutions)

* Standalone projects

CONTROLLING OFFICER'S REPLY**ITB097****(Question Serial No. 2076)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

According to the 2019-20 Budget, the Government will set aside \$800 million for Technology Transfer Offices of designated universities, State Key Laboratories and Hong Kong branches of the Chinese National Engineering Research Centres on applied research and development (R&D). Please list the provision provided for the above R&D centres by the Government and the details of the projects in the past 3 years.

Asked by: Hon CHEUNG Kwok-kwan (LegCo internal reference no.: 5)

Reply:

The Government provides funding to the State Key Laboratories (SKLs), Hong Kong Branches of the Chinese National Engineering Research Centres (CNERCs), Technology Transfer Offices (TTOs) of universities, and the Technology Start-up Support Scheme for Universities (TSSSU) through the Innovation and Technology Fund (ITF) to enable relevant institutions to carry out more research and development (R&D) work and knowledge transfer, or commercialise R&D outcomes. The relevant funding is not provided on the basis of individual R&D projects. In the past 3 years (2016-17, 2017-18 and 2018-19), the funding provided to the relevant institutions/scheme through the ITF is as follows:

Funded institutions/scheme	Funding amount (\$million)		
	2016-17	2017-18	2018-19 (Estimate) ^(Note 1)
SKLs ^(Note 2)	80	80	80
Hong Kong Branches of CNERCs	29.82	29.93	30
TTOs	23.99	23.83	24
TSSSU	21.79	23.42	24
Total	155.60	157.18	158

Note 1: The estimated funding amounts in 2018-19 are the maximum funding for the relevant institutions/scheme. Since the above funding is provided on an annual reimbursement basis, the funded institutions will submit funding applications only after the end of each financial year. Therefore, the actual funding amounts are subject to confirmation upon approval of the applications concerned.

Note 2: The Partner State Key Laboratories were officially renamed as State Key Laboratories by the Minister of Science and Technology in September 2018.

The Government plans to double the funding for the above institutions/scheme starting from 2019-20. The additional provision for the coming 5 years will be no less than \$800 million.

- End -

CONTROLLING OFFICER'S REPLY

ITB098

(Question Serial No. 0735)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (2) Promotion of Technological Entrepreneurship

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Government has set up the \$2 billion Innovation and Technology Venture Fund to co-invest in local innovation and technology start-ups together with venture capital (VC) funds. As mentioned in the Budget Speech, the Government selected a total of 6 Co-investment Partners in mid-2018, and has been receiving co-investment proposals. In this connection, please advise on:

1. the assessment and vetting criteria for selecting VC funds; and
2. the details of and amount invested in the projects selected for co-investment.

Asked by: Hon CHIANG Lai-wan (LegCo internal reference no.: 29)

Reply:

The required information is provided below:

- (1) A total of 14 applications for selection as co-investment partners (CPs) were received under the Innovation and Technology Venture Fund (ITVF). On the advice of the ITVF Advisory Committee, we selected 6 venture capital (VC) funds to be CPs based on the selection criteria such as the VC fund's capabilities and its management team's experience as well as the adequacy of its local resources and knowledge.
- (2) Upon signing of a master agreement with the 6 CPs, we have been receiving and are now actively considering their investment invitations and relevant proposals. Following the completion of the relevant procedures, we will decide whether to make co-investment.

- End -

CONTROLLING OFFICER'S REPLY

ITB099

(Question Serial No. 1072)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in the Budget Speech that the Government plans to inject \$2 billion into the Innovation and Technology Fund for launching a Re-industrialisation Funding Scheme (the Scheme) to subsidise manufacturers on a matching basis to help them set up smart production lines in Hong Kong. In this connection, please advise on:

1. the application and vetting criteria of the Scheme to be implemented with the \$2 billion;
2. whether a ceiling will be set for each application;
3. the implementation timetable of the Scheme.

Asked by: Hon CHIANG Lai-wan (LegCo internal reference no.: 30)

Reply:

A consolidated reply to various parts of the question is as follows:

The Government plans to inject \$2 billion into the Innovation and Technology Fund for launching a Re-industrialisation Funding Scheme (the Scheme) to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong, with a view to expediting the realisation of "re-industrialisation". We are formulating the operational details of the Scheme, including the eligibility criteria, the funding scope, mode and amount, as well as the vetting mechanism, etc. in consultation with the industries. We will consult the Legislative Council (LegCo) Panel on Commerce and Industry on the Scheme in May 2019 before seeking funding approval from the LegCo Finance Committee, with an aim to launch the Scheme in the second half of this year.

- End -

CONTROLLING OFFICER'S REPLY**ITB100****(Question Serial No. 4195)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): (000) Operational expenses

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please list the number of applications approved, the average approval rate, and the percentage breakdown of the applicants by nationality under the Technology Talent Admission Scheme in each year.

Asked by: Hon CHU Hoi-dick (LegCo internal reference no.: 1089)

Reply:

The Technology Talent Admission Scheme (TechTAS) was launched in June 2018 to provide a fast-track arrangement for admitting overseas and Mainland technology talent to conduct research and development work in Hong Kong. As at end-February 2019, a total of 226 quota applications were received by the Innovation and Technology Commission, among which 225 quotas have been allotted while the remaining one is being processed. A total of 50 applications of visa/entry permit using the quotas were received by the Immigration Department, of which 40 have been approved. The statistics on the non-local persons approved for entry under the TechTAS by their respective regions are as follows:

Region	Number of non-local persons approved for entry under TechTAS (percentage)
Mainland China	29 (72.5%)
Taiwan	2 (5.0%)
Southeast Asia	5 (12.5%)
Others	4 (10%)
Total	40 (100%)

- End -

CONTROLLING OFFICER'S REPLY

ITB101

(Question Serial No. 1305)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): ()

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Financial Secretary (FS) mentioned in paragraph 109 under the section of “Support for Enterprises” in his speech that the Government would regularise the Technology Voucher Programme (TVP) and roll out enhancement measures, including doubling the funding ceiling for each enterprise from \$200,000 to \$400,000 to encourage the wider adoption of technology by local enterprises to improve their efficiency and services. What are the details of the enhancement measures concerned? What is the estimated number of enterprises to be benefitted from the increased funding support? The FS also mentioned in paragraph 73 under the section of “Diversified Economy” in last year’s speech that the Government would relax the eligibility criteria for the TVP. All local enterprises, irrespective of size and duration of operation, may apply. This would enable more medium enterprises and start-ups to benefit from the TVP. Please inform this Committee how much of the \$500 million fund has been used and the total number of applications received by the Government since the launch of the TVP in November 2016. Since the relaxation of the eligibility criteria last year, have the numbers of applications and approved cases increased? How many of the applications were rejected? What are the percentage and the application details? What kinds of projects and sectors are involved? What are the reasons for rejecting the applications? Please provide a breakdown.

Asked by: Hon CHUNG Kwok-pan (LegCo internal reference no.: 47)

Reply:

The requested information is provided below:

Starting from the 2019 Budget Day (i.e. 27 February 2019), the Government has converted the Technology Voucher Programme (TVP) into a regular funding programme under the Innovation and Technology Fund (ITF), and implemented the following enhancement measures:

- (a) doubling the funding ceiling per applicant from \$200,000 to \$400,000;
- (b) expanding the eligibility criteria to cover companies which are incorporated and registered in Hong Kong under the Companies Ordinance and currently exempted from business registration, and statutory bodies set up in Hong Kong (these companies or bodies shall not receive any subvention from the Government on a recurrent basis);
- (c) increasing the maximum number of approved projects per applicant from 3 to 4;
- (d) expanding the list of typical technological services and solutions in the Guidance Notes for Applications;
- (e) simplifying the application procedures by waiving the requirements to submit the quotation invitation documents and to certify the documents required for application;
- (f) simplifying the monitoring procedures by waiving the requirement for obtaining prior approval for early project completion and project extension for no more than six months; and
- (g) providing clearer definitions of “off-the-shelf/readily available items” and “customised items”.

After the TVP has been converted into a regular funding programme under the ITF, its operation will be supported continuously by the ITF and is no longer subject to the \$500 million commitment. The additional expenditure involved in the doubling of funding ceiling and relaxation of eligibility criteria will also be met by the ITF. With the increase in funding ceiling and maximum number of approved projects, applicants may conduct more projects or projects of larger scale with the funding support of the TVP. Those who have already used up all the subsidy under the previous funding ceiling may continue to obtain funding support from the TVP to further enhance efficiency by the use of technology. Local companies exempted from business registration and statutory bodies will be benefitted from the TVP with relaxed eligibility criteria, thereby enhancing the overall level of technology adoption in the Hong Kong community.

Since the launch of the TVP in November 2016 up to end February 2019, the Innovation and Technology Commission (ITC) received a total of 1 565 applications. Of the 1 114 applications assessed by the TVP Committee (the Committee), 1 063 were approved, representing a success rate of 95% and involving a total funding of about \$149 million. 51 applications (5%) not supported by the Committee were mainly cases for purchasing off-the-shelf software and hardware (e.g. mobile phones, tablets, office suite software, etc); or cases involving only little or no technological elements, or with unreasonable project budget/implementation details. Currently, 451 applications are still awaiting supplementary information from the applicants or are under preliminary assessment by ITC. Since the relaxation of the eligibility criteria in February last year, the number of applications increased from 670 between November 2016 and February 2018 to 895 between March 2018 and February 2019.

The major types of business engaged in by the applicants and the number of applications already approved are as follows –

Type of business	Number of applications <small>Note 1</small>	Number of applications already approved <small>Note 1</small>
Wholesale and retail	356	247
Import and export trade	239	184
Professional services	101	74

Type of business	Number of applications Note 1	Number of applications already approved Note 1
Restaurants and hotels	86	21
Information technology	72	51

Note 1 Applicants may engage in more than one type of business.

The major types of technological services or solutions involved in the proposed projects and the number of applications already approved are as follows –

Technological service or solution	Number of applications Note 2	Number of applications already approved Note 2
Enterprise resource planning solution	873	598
Electronic inventory management system	360	243
Document management and mobile access system	301	225
Point-of-sales system	278	161
Appointment scheduling and queue management system	190	85

Note 2 Proposed projects may involve more than one technological service or solution.

Basic information of all the approved projects which have already commenced, including the project title, the technological services or solutions adopted, funding amount and project period etc., have been uploaded to the ITF website for public inspection.

- End -

CONTROLLING OFFICER'S REPLY

ITB102

(Question Serial No. 1306)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Government will launch a \$2 billion Re-industrialisation Funding Scheme this year. Under this Programme, the responsibilities of the Innovation and Technology Commission include launching the Reindustrialisation and Technology Training Programme (RTTP) and publicising the programme via briefings and other channels; and, Matters Requiring Special Attention in 2019-20 also include launching the Re-industrialisation Funding Scheme to subsidise manufacturers, on a matching basis, to set up smart production lines in Hong Kong. Please inform this Committee of the implementation progress and effectiveness of RTTP in 2018-19. How was the RTTP publicised? What was the expenditure incurred? What are the details of the new \$2 billion Re-industrialisation Funding Scheme to be implemented in 2019-20? What is the anticipated effectiveness? Has the Government set up a timetable for the work on promoting re-industrialisation in Hong Kong? If yes, what are the details? If not, what are the reasons?

Asked by: Hon CHUNG Kwok-pan (LegCo internal reference no.: 48)

Reply:

The Government has been actively promoting “re-industrialisation” in recent years to develop advanced manufacturing industries that are based on new technologies and smart production, so as to identify new growth points for Hong Kong’s economic development. We will continue to support the development of “re-industrialisation” in terms of infrastructure, funding, technology and talents.

The Reindustrialisation and Technology Training Programme (RTTP) was launched in August 2018. As at end January 2019, a total of 349 staff of local enterprises have been funded by the RTTP to receive technology trainings, involving a total funding of about \$2.35 million. The Vocational Training Council (VTC) administers the RTTP and serves as its Secretariat with duties including publicising the RTTP to trade associations, industry organisations and training providers, etc. by means of briefing sessions, emails and publicity

materials, etc. The VTC does not have the breakdown of expenditure for the relevant promotion work.

The Government plans to inject \$2 billion into the Innovation and Technology Fund for launching a Re-industrialisation Funding Scheme (the Scheme) to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong, with a view to expediting the realisation of “re-industrialisation”. We are formulating the operational details of the Scheme, including the eligibility criteria, the funding scope, mode and amount, as well as the vetting mechanism, etc. in consultation with the industries. We will consult the Legislative Council (LegCo) Panel on Commerce and Industry on the Scheme in May 2019 before seeking funding approval from the LegCo Finance Committee, with an aim to launch the Scheme in the second half of this year.

We envisage that the Scheme can provide economic incentives for enterprises to adopt smart production, thereby expediting the progress of “re-industrialisation” in Hong Kong. We will review the effectiveness of the Scheme in due course after its launch.

- End -

CONTROLLING OFFICER'S REPLY

ITB103

(Question Serial No. 1307)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): ()

Programme: Not Specified

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Under this Programme, one of the responsibilities of the Innovation and Technology Commission is to launch the Technology Talent Admission Scheme (TechTAS) and publicise it via briefings and other channels. Please inform this Committee of the efforts made by the Government on the TechTAS in 2018-19 and their effectiveness. What was the expenditure? What is the number of eligible companies or institutes for which the TechTAS has admitted overseas and Mainland technology talent to work in Hong Kong so far? Which sectors are mainly involved? Please provide a breakdown. How will the TechTAS be implemented in 2019-20? How to publicise and promote the TechTAS to small and medium enterprises? What is the estimated expenditure?

Asked by: Hon CHUNG Kwok-pan (LegCo internal reference no.: 49)

Reply:

The Innovation and Technology Commission (ITC) launched the Technology Talent Admission Scheme (TechTAS) in June 2018 to provide a fast-track arrangement for eligible tenants and incubatees of the Hong Kong Science and Technology Parks Corporation (HKSTPC) and the Cyberport to admit technology talent to undertake research and development work in Hong Kong. In 2018-19, the ITC and the Immigration Department (ImmD) held 4 briefing sessions at the Hong Kong Science Park and Cyberport, attracting over 300 participants. Information related to the TechTAS has also been disseminated by the ITC, HKSTPC and Cyberport via their respective websites. Besides, the HKSTPC has, through its one-stop business support centre TecONE, provided advisory services relating to the TechTAS for its tenants and incubatees. The Cyberport has also publicised the TechTAS via its e-newsletter, in addition to offering advisory services and briefings on the scheme to interested tenants and incubatees.

We will review the implementation details of the TechTAS, such as its scope and local employment requirements, in the first half of 2019 in the light of Hong Kong's

technological development. We will also continue to publicise and promote it through various channels, such as website and e-newsletter, etc. The related promotional work will be absorbed by existing resources and manpower, and there is no separate breakdown for the expenditure.

As at end-February 2019, a total of 226 quota applications were received by the ITC and 225 quotas have been allotted. A total of 50 applications of visa/entry permit were received by the ImmD, of which 40 applications from 23 companies or institutes have been approved. The statistics on the number of non-local persons approved for entry under the TechTAS by technology area are as follows:

Technology area	Number of non-local persons approved for entry under TechTAS
Financial technologies	13
Material science	9
Artificial intelligence	6
Data analytics	4
Cybersecurity	3
Robotics	3
Biotechnology	2
Total	40

- End -

CONTROLLING OFFICER'S REPLY

ITB104

(Question Serial No. 2829)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Innovation and Technology Commission will continue to administer the Technology Talent Admission Scheme (TechTAS) during 2019-20. Please inform this Committee of the following, since the launch of the TechTAS in May 2018:

1. What are the respective numbers of quota applications received and approved by the Government?
2. Please list the details of the non-local persons approved for entry under the TechTAS by region, location of degree-awarding institution (for their highest qualification), monthly remuneration and employment period.
3. What are the business areas (i.e. biotechnology, artificial intelligence, cyber security, robotics, data analytics, financial technologies or material science) in which the applicant technology companies or institutes under the TechTAS are engaged and the number of quotas approved?

Asked by: Hon FAN Kwok-wai, Gary (LegCo internal reference no.: 14)

Reply:

A consolidated reply to the various parts of the question is as follows:

The Technology Talent Admission Scheme (TechTAS) was launched in June 2018. As at end-February 2019, a total of 226 quota applications were received by the Innovation and Technology Commission, among which 225 quotas have been allotted to 38 eligible technology companies/institutes. The statistics on these companies/institutes by business area and number of quotas allotted are as follows:

Number of quotas allotted	1-5	6-10	11-20	21-50
Business area				
Data analytics	10	2	2	0
Financial technologies	10	4	1	1
Artificial intelligence	7	2	2	2
Cybersecurity	4	1	2	0
Robotics	3	1	1	0
Biotechnology	3	1	0	0
Material science	2	2	0	0

Note: Figures may not add up to the total number of technology companies/institutes with quotas allotted, since each technology company/institute may engage in more than one business areas.

As at end-February 2019, a total of 50 applications of visa/entry permit were received by the Immigration Department, of which 40 applications have been approved. The statistics on the numbers of non-local persons approved for entry under the TechTAS by their respective regions, locations of degree-awarding institutions (for their highest qualifications) and monthly remunerations are set out below. The employment period of these persons are no less than 12 months.

Region	Number of non-local persons approved for entry under TechTAS
Mainland China	29
Taiwan	2
Southeast Asia	5
Others	4
Total	40

Location of the Degree-Awarding Institution (for the highest qualification)	Number of non-local persons approved for entry under TechTAS
Mainland China	22
Other regions in Asia	9
Europe	4
America	3
Australia	2
Total	40

Monthly Remuneration	Number of non-local persons approved for entry under TechTAS
\$20,000 to \$39,999	20
\$40,000 to \$79,999	16

Monthly Remuneration	Number of non-local persons approved for entry under TechTAS
\$80,000 or above	4
Total	40

- End -

CONTROLLING OFFICER'S REPLY

ITB105

(Question Serial No. 5346)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: Not Specified

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

From 2014-15 to 2018-19:

1. Please list, by funded university and year, the patents granted to the relevant Technology Transfer Offices, the territory of registration and names of the patents, as well as the funding amount received from the Government.
2. Under the Technology Start-up Support Scheme for Universities launched in 2014, what are the respective numbers of funded start-ups of the 6 universities? Please list the names of the funded enterprises and the funding amounts by university and year.
3. Please list the funding amount received by each State Key Laboratory and Hong Kong Branch of Chinese National Engineering Research Centre by year.
4. Please list the numbers of interns recruited under the Internship Programme (Innovation and Technology Fund) and the Internship Programme (Hong Kong Science and Technology Parks Corporation and Hong Kong Cyberport Management Company Limited) by year and academic qualifications (Bachelor's degree, Master's or higher degree of a local university).

Asked by: Hon IP Kin-yuen (LegCo internal reference no.: 174)

Reply:

The requested information is provided below –

- (1) We provide, through the Innovation and Technology Fund (ITF), extra funding to Technology Transfer Offices (TTOs) of the designated universities to enhance their technology transfer capabilities, which include building up the professional support services (such as protection of intellectual property rights). The funding provided to TTOs of the 6 universities through the ITF from 2014-15 to 2018-19 is as follows –

Universities	Funding amount (\$ million)				
	2014-15	2015-16	2016-17	2017-18	2018-19 (Estimate) (Note 1)
The University of Hong Kong	4	4	4	4	4
The Chinese University of Hong Kong	3.96	3.99	4	3.83	4
City University of Hong Kong	3.97	4	4	4	4
The Hong Kong University of Science and Technology	4	4	4	4	4
Hong Kong Baptist University	3.98	4	4	4	4
The Hong Kong Polytechnic University	4	3.86	3.99	4	4
Total	23.91	23.85	23.99	23.83	24

Note 1: The estimated funding amounts in 2018-19 are the maximum funding. Since the above funding is provided on an annual reimbursement basis, the universities will submit funding applications only after the end of each financial year. Therefore, the actual funding amounts are subject to confirmation upon approval of the applications concerned.

The numbers of patents granted to the TTOs of the 6 universities from 2014-15 to 2018-19 are provided below. We do not have information on the titles and territory of registration of the patents granted to the universities.

Universities	Number of patents granted				
	2014-15	2015-16	2016-17	2017-18	2018-19
The University of Hong Kong	50	60	64	67	(Note 2)
The Chinese University of Hong Kong	58	83	132	185	
City University of Hong Kong	32	44	57	58	
The Hong Kong University of Science and Technology	93	162	134	143	
Hong Kong Baptist University	13	41	30	38	
The Hong Kong Polytechnic University	73	54	43	52	
Total	319	444	460	543	

Note 2: Each university will provide the numbers of patents granted in 2018-19 only after the end of the year. The relevant figures are not available for the moment.

- (2) The Technology Start-up Support Scheme for Universities (TSSSU) was launched in 2014 to provide funding to the scientific research teams of 6 local universities in starting businesses. From 2014-15 to 2018-19, a total of 188 start-ups associated

with the universities were funded under TSSSU. Details are as follows -

Universities	Number of funded start-ups				
	2014-15	2015-16	2016-17	2017-18	2018-19
The University of Hong Kong	8	11	13	9	16
The Chinese University of Hong Kong	7	14	17	15	16
City University of Hong Kong	9	11	7	9	10
The Hong Kong University of Science and Technology	7	9	10	9	11
Hong Kong Baptist University	5	4	4	4	4
The Hong Kong Polytechnic University	0	17	16	12	7
Total ^(Note 3)	36	66	67	58	64

Note 3: Each start-up would be funded for no more than 3 years. In the past 5 years, a total of 75 start-ups were funded in more than 1 year.

The names and amounts of approved funding of the funded enterprises listed by university and year are in Annex A.

- (3) The amounts of funding provided to 16 State Key Laboratories and 6 Hong Kong Branches of Chinese National Engineering Research Centres from 2014-15 to 2018-19 are listed in Annex B.
- (4) The numbers of applications approved from 2014-15 to 2018-19 under the 2 sub-programmes of the Researcher Programme (formerly known as the Internship Programme), namely the “Researcher Programme (Innovation and Technology Fund) (RP-ITF)” and the “Researcher Programme for Incubatees and Innovation and Technology (I&T) Tenants of the Hong Kong Science & Technology Parks Corporation (HKSTPC) and Hong Kong Cyberport Management Company Limited (Cyberport) (RP-SPC)”, are listed below (by the academic qualifications of the researchers) –

	2014-15		2015-16		2016-17		2017-18		2018-19 (as at end January 2019)	
RP-ITF										
Academic qualification of researchers	Bachelor's degree	Master's or higher degree	Bachelor's degree	Master's or higher degree	Bachelor's degree	Master's or higher degree	Bachelor's degree	Master's or higher degree	Bachelor's degree	Master's or higher degree
Number of applications approved	117	202	108	221	128	224	155	223	138	178

	2014-15		2015-16		2016-17		2017-18		2018-19 (as at end January 2019)	
RP-SPC ^(Note 4)										
Academic qualification of researchers	Bachelor's degree	Master's or higher degree	Bachelor's degree	Master's or higher degree	Bachelor's degree	Master's or higher degree	Bachelor's degree	Master's or higher degree	Bachelor's degree	Master's or higher degree
Number of applications approved	N.A.	N.A.	N.A.	N.A.	19	18	188	106	209	107
Total	117	202	108	221	147	242	343	329	347	285

N.A. denotes "Not Applicable".

Note 4: In December 2016, the programme was extended to cover incubatees as well as small and medium enterprises tenants of the HKSTPC and Cyberport. In December 2017, it was further extended to cover all I&T tenants of the HKSTPC and Cyberport.

- End -

Technology Start-up Support Scheme for Universities

[Note: N.A. denotes “Not Applicable”]

Name of Start-ups		Amount of Funding Approved (\$'000)					
		2014-15	2015-16	2016-17	2017-18	2018-19	Total
The University of Hong Kong							
1	Appedu (Holding) Limited	150	150	N.A.	N.A.	N.A.	300
2	Brain Investing Limited	N.A.	N.A.	N.A.	N.A.	150	150
3	CISC Limited	N.A.	N.A.	500	400	260	1,160
4	Comma Technology Limited	300	100	100	N.A.	N.A.	500
5	Conzeb Limited	N.A.	N.A.	500	500	100	1,100
6	Corvidae Technology Limited	N.A.	N.A.	N.A.	N.A.	150	150
7	Datax Limited	N.A.	N.A.	N.A.	N.A.	150	150
8	EN Technology Limited	N.A.	N.A.	500	500	150	1,150
9	Enzyme Design Limited	N.A.	N.A.	N.A.	450	N.A.	450
10	Eonzen Technology Company Limited	N.A.	N.A.	250	N.A.	150	400
11	Fano Labs Limited (Formerly known as Accosys Limited)	N.A.	600	150	250	N.A.	1,000
12	Flectrode Technology Limited	N.A.	N.A.	250	N.A.	N.A.	250
13	Hactis Limited	N.A.	N.A.	350	350	150	850
14	High Performance Solution Limited	N.A.	N.A.	N.A.	N.A.	450	450
15	Hong Kong Unific Publishing Limited	450	200	N.A.	N.A.	N.A.	650
16	Immuno Cure Limited	N.A.	800	N.A.	N.A.	N.A.	800
17	ImmunoDiagnostics Limited	N.A.	N.A.	500	500	465	1,465
18	Lifespans Limited	N.A.	N.A.	N.A.	750	465	1,215
19	Living Tissues Company Limited	820	600	300	N.A.	N.A.	1,720
20	m-Chinese Solution Limited	N.A.	N.A.	N.A.	N.A.	150	150
21	Movabar Limited	N.A.	N.A.	100	N.A.	N.A.	100
22	Novel Sonics Limited	N.A.	N.A.	N.A.	N.A.	450	450
23	Novoheart Limited	750	400	N.A.	N.A.	N.A.	1,150
24	OncoSeek Limited	650	300	N.A.	N.A.	N.A.	950
25	OrthoSmart Limited	678	400	N.A.	N.A.	N.A.	1,078
26	Passber Limited	200	200	N.A.	N.A.	N.A.	400
27	Printact Limited	N.A.	250	100	N.A.	N.A.	350
28	QuantumFabless Limited	N.A.	N.A.	N.A.	N.A.	250	250
29	SkinData Limited	N.A.	N.A.	400	300	260	960
30	WEAVATOOLS LIMITED	N.A.	N.A.	N.A.	N.A.	250	250
The Chinese University of Hong Kong							
31	A-Biotech (Hong Kong) Company Limited	N.A.	N.A.	N.A.	200	100	300
32	Accukit Technology Limited	N.A.	N.A.	400	200	200	800
33	ACE VR Limited	N.A.	N.A.	100	300	150	550
34	Atspin Limited	506	N.A.	N.A.	N.A.	N.A.	506
35	BINOVIZ Limited	N.A.	N.A.	N.A.	N.A.	500	500
36	Bootstrap HK Limited (Formerly known as RegCourse Limited)	N.A.	N.A.	400	N.A.	N.A.	400
37	BrainNow Medical Technology Limited	N.A.	300	100	100	N.A.	500
38	C4Cat Entertainment Limited	N.A.	300	200	N.A.	N.A.	500

Name of Start-ups		Amount of Funding Approved (\$'000)					
		2014-15	2015-16	2016-17	2017-18	2018-19	Total
39	CocoRobo Limited	N.A.	N.A.	N.A.	500	300	800
40	Codex Genetics Limited	500	300	200	N.A.	N.A.	1,000
41	CUREhab Limited	N.A.	N.A.	400	N.A.	N.A.	400
42	DecaSense Technology Limited	N.A.	N.A.	400	200	100	700
43	DG Care Limited	N.A.	N.A.	300	N.A.	N.A.	300
44	Dragon Way Technology Limited	N.A.	N.A.	N.A.	N.A.	500	500
45	Edvant Company Limited	N.A.	100	N.A.	N.A.	N.A.	100
46	Foresight Language and Learning Solutions Limited	N.A.	N.A.	N.A.	N.A.	400	400
47	GEMVCare Limited	495	340	N.A.	N.A.	N.A.	835
48	Gnetwork Limited	N.A.	N.A.	N.A.	N.A.	200	200
49	Hawkeyes Solutions Limited	N.A.	N.A.	300	100	N.A.	400
50	Health View Bioanalytic Limited	N.A.	300	100	100	N.A.	500
51	HippoTuring Technologies Company Limited	505	300	N.A.	N.A.	N.A.	805
52	HSK GeneTech Limited	507	300	N.A.	N.A.	N.A.	807
53	HyperLab Limited	490	N.A.	N.A.	N.A.	N.A.	490
54	Imsight Medical Technology Company Limited	N.A.	N.A.	N.A.	500	100	600
55	Intelligent Sensing Limited	N.A.	N.A.	N.A.	500	200	700
56	Lione Limited	N.A.	100	N.A.	N.A.	N.A.	100
57	Opinion Network Limited	N.A.	N.A.	300	N.A.	N.A.	300
58	Precision Instrument and Optics Limited	500	432	100	N.A.	N.A.	1,032
59	Pureform Technology Limited	N.A.	N.A.	N.A.	N.A.	250	250
60	R-Guardian Limited ^(Note)	N.A.	N.A.	N.A.	200	N.A.	200
61	SicureLabs Company Limited	N.A.	300	N.A.	N.A.	N.A.	300
62	SmarteYE Tech Limited	N.A.	N.A.	N.A.	400	100	500
63	Stapworks Stem Cell Limited	N.A.	300	100	100	N.A.	500
64	Sucabot MedTech International Limited (Formerly known as CuttingEdge MedTech Limited)	N.A.	300	100	N.A.	N.A.	400
65	Titanology Limited	N.A.	N.A.	N.A.	N.A.	500	500
66	Unitinno Architectural Technology Development Company Limited	N.A.	N.A.	400	200	100	700
67	VisionNav Robotics Limited	N.A.	300	100	N.A.	N.A.	400
68	WIT Enterprises Limited	N.A.	N.A.	N.A.	400	300	700
City University of Hong Kong							
69	6J Biotechnology (Hong Kong) Limited	N.A.	N.A.	N.A.	N.A.	747	747
70	Air Button Technology Limited	N.A.	167	770	233	N.A.	1,170
71	Animae Technologies Limited	484	N.A.	N.A.	N.A.	N.A.	484
72	BeVoid Limited	N.A.	250	N.A.	N.A.	N.A.	250
73	B-Route Limited	N.A.	N.A.	N.A.	233	N.A.	233
74	C4Cat Entertainment Limited	179	N.A.	N.A.	N.A.	N.A.	179
75	Cinme Tech Limited	720	514	N.A.	N.A.	N.A.	1,234
76	Clothclip International Limited	600	N.A.	N.A.	N.A.	N.A.	600
77	Eafe Limited	N.A.	N.A.	N.A.	N.A.	140	140
78	GlobeXchange Co. Limited	389	N.A.	N.A.	N.A.	N.A.	389
79	Hands Life Science Limited	N.A.	N.A.	830	850	746	2,426

Name of Start-ups		Amount of Funding Approved (\$'000)					
		2014-15	2015-16	2016-17	2017-18	2018-19	Total
80	Hong Kong ATIS Healthcare Technology Limited	N.A.	N.A.	N.A.	N.A.	400	400
81	Hong Kong Bilingual Learning and Translation Studies Association Co. Limited	228	N.A.	N.A.	N.A.	N.A.	228
82	Initial Innovation Limited	N.A.	N.A.	N.A.	234	140	374
83	J&K Brassiere Co., Limited	N.A.	N.A.	N.A.	525	400	925
84	Jacky Instruments Limited	N.A.	337	750	700	N.A.	1,787
85	Kung Fu Motion Limited	600	509	350	N.A.	N.A.	1,459
86	MindLayer Limited	N.A.	N.A.	400	525	400	1,325
87	Nautilus Software Technologies Limited	N.A.	N.A.	N.A.	N.A.	747	747
88	New System Technologies Limited	N.A.	360	N.A.	N.A.	N.A.	360
89	NoPhish Technology Limited	N.A.	514	500	N.A.	N.A.	1,014
90	ProHub Limited	N.A.	339	N.A.	N.A.	N.A.	339
91	Scooter (Technology) Limited	N.A.	N.A.	N.A.	350	140	490
92	Spreadfast Interactive Limited	280	291	N.A.	N.A.	N.A.	571
93	Teorema Limited	N.A.	358	N.A.	N.A.	N.A.	358
94	The Worldpath Limited	520	360	N.A.	N.A.	N.A.	880
95	V&R Laboratory Limited	N.A.	N.A.	400	350	140	890
The Hong Kong University of Science and Technology							
96	3DK Tech Limited	N.A.	N.A.	N.A.	N.A.	650	650
97	Acoustic Metamaterials Company Limited	600	500	N.A.	N.A.	N.A.	1,100
98	AIEgen Biotech Co., Limited	N.A.	N.A.	500	N.A.	N.A.	500
99	Ananflow Technology Limited	450	N.A.	N.A.	N.A.	N.A.	450
100	beNovelty Limited	N.A.	N.A.	200	N.A.	N.A.	200
101	Bio-Trick Limited	N.A.	N.A.	N.A.	500	N.A.	500
102	Blue Innowater Company Limited	N.A.	N.A.	N.A.	650	N.A.	650
103	CoilEasy Technologies Limited	N.A.	N.A.	500	400	N.A.	900
104	Compathon Technology Limited	N.A.	N.A.	400	N.A.	N.A.	400
105	Cytofluidics Biotechnology Limited	N.A.	N.A.	N.A.	300	N.A.	300
106	DelTron Intelligence Technology Limited	N.A.	N.A.	500	N.A.	N.A.	500
107	DropX Biotech Limited	N.A.	N.A.	N.A.	N.A.	450	450
108	eTron Electronic Materials (Hong Kong) Co. Limited	N.A.	700	N.A.	N.A.	N.A.	700
109	Everest Innovation Technology Limited	600	300	N.A.	N.A.	N.A.	900
110	Free Flow Technology Limited	N.A.	200	N.A.	N.A.	N.A.	200
111	Gense Technologies Limited	N.A.	N.A.	N.A.	N.A.	350	350
112	Hong Kong Innovative Display Technology Limited	400	200	N.A.	N.A.	N.A.	600
113	Incus Company Limited	N.A.	N.A.	N.A.	650	N.A.	650
114	Infitech Limited	N.A.	N.A.	N.A.	N.A.	400	400
115	INNOWAT Limited	N.A.	N.A.	N.A.	N.A.	450	450
116	I-Square Technology (Hong Kong) Limited	N.A.	N.A.	N.A.	N.A.	450	450
117	iSTEM Limited	N.A.	N.A.	N.A.	N.A.	200	200
118	iVo Technologies Company Limited	400	N.A.	N.A.	N.A.	N.A.	400
119	Jetcomm Technologies Limited	N.A.	450	N.A.	N.A.	N.A.	450

Name of Start-ups		Amount of Funding Approved (\$'000)					
		2014-15	2015-16	2016-17	2017-18	2018-19	Total
120	Light Innovation Technology Limited	N.A.	N.A.	N.A.	500	N.A.	500
121	Mindvivid Limited	N.A.	N.A.	200	N.A.	N.A.	200
122	MultiMedia Big Data Analytics Limited	N.A.	N.A.	200	N.A.	N.A.	200
123	NanoBioImaging Limited	600	500	N.A.	N.A.	N.A.	1,100
124	Opharmic Technology (HK) Limited (Formerly known as Sonikure Technology Limited)	N.A.	700	N.A.	N.A.	N.A.	700
125	Oxpecker Labs Limited	N.A.	N.A.	N.A.	500	N.A.	500
126	Pear Limited	N.A.	N.A.	500	N.A.	N.A.	500
127	Pleryon Therapeutics Limited (Formerly known as NovaMatrix Limited)	N.A.	N.A.	500	N.A.	N.A.	500
128	P-Sense Limited	N.A.	N.A.	N.A.	N.A.	300	300
129	SeaSafe Limited	N.A.	N.A.	500	N.A.	N.A.	500
130	Set Sail Venture Limited	N.A.	N.A.	N.A.	200	N.A.	200
131	Sourcebrella Inc Limited	N.A.	N.A.	N.A.	N.A.	250	250
132	Sundial Technology Development Limited	N.A.	N.A.	N.A.	300	N.A.	300
133	WEXTECH HK LIMITED	N.A.	N.A.	N.A.	N.A.	350	350
134	Without Limited	N.A.	N.A.	N.A.	N.A.	150	150
135	Yfisoft Limited	450	450	N.A.	N.A.	N.A.	900
Hong Kong Baptist University							
136	ANA Artwork Material Analysis Company Limited	450	1,080	960	N.A.	N.A.	2,490
137	Booguu Company Limited	N.A.	N.A.	800	1,030	N.A.	1,830
138	Cathay Photonics Limited	1,000	1,080	1,160	N.A.	N.A.	3,240
139	Flow Imaging Technology Limited	1,000	N.A.	N.A.	N.A.	N.A.	1,000
140	Gihon Biotech Limited	N.A.	N.A.	N.A.	910	1,030	1,940
141	Hong Kong Authentication Centre of Dendrobii Officinalis Caulis Limited	N.A.	N.A.	N.A.	1,030	1,030	2,060
142	Mat-A-Cell Limited	N.A.	N.A.	N.A.	N.A.	910	910
143	New Life Medicine Technology Company Limited	N.A.	N.A.	N.A.	1,030	1,030	2,060
144	OPER Technology Limited	1,100	1,100	1,080	N.A.	N.A.	3,280
145	R&P Technology Limited	450	740	N.A.	N.A.	N.A.	1,190
The Hong Kong Polytechnic University							
146	Acoustics Innovation Limited	N.A.	100	N.A.	N.A.	N.A.	100
147	Acquaintance Enterprises Ltd	N.A.	N.A.	N.A.	700	N.A.	700
148	Advwhere Limited	N.A.	100	N.A.	N.A.	N.A.	100
149	AlikeAudience (Hong Kong) Limited	N.A.	N.A.	500	N.A.	500	1,000
150	Alps Robot Limited	N.A.	N.A.	100	N.A.	N.A.	100
151	Amazing Trace Technologies Limited	N.A.	100	N.A.	N.A.	N.A.	100
152	ASA Innovation & Technology Limited	N.A.	N.A.	N.A.	100	500	600
153	Asiabots Limited	N.A.	N.A.	N.A.	N.A.	730	730
154	CoDeco Technology Limited (Formerly known as Hocfu Technology Limited)	N.A.	N.A.	500	500	N.A.	1,000
155	Cognix Limited	N.A.	100	N.A.	N.A.	N.A.	100

Name of Start-ups		Amount of Funding Approved (\$'000)					
		2014-15	2015-16	2016-17	2017-18	2018-19	Total
156	Control Free Limited	N.A.	100	N.A.	N.A.	N.A.	100
157	Creazine Limited	N.A.	100	N.A.	N.A.	N.A.	100
158	Degree (Hong Kong) Education Consulting Limited	N.A.	N.A.	N.A.	N.A.	710	710
159	dEYEy InnoTech Limited	N.A.	N.A.	100	N.A.	N.A.	100
160	Dr Coach Education Technology Limited	N.A.	100	N.A.	N.A.	N.A.	100
161	Easiread Limited	N.A.	N.A.	N.A.	100	N.A.	100
162	eSight Technology Company Limited	N.A.	N.A.	N.A.	100	N.A.	100
163	Eternal Billion (Hong Kong) Limited	N.A.	N.A.	N.A.	N.A.	560	560
164	Holumino Limited	N.A.	100	500	N.A.	N.A.	600
165	I Pet Interactive Technology (HK) Co., Limited	N.A.	100	N.A.	N.A.	N.A.	100
166	Inno Frontage Limited	N.A.	100	N.A.	N.A.	N.A.	100
167	Innoplay Limited	N.A.	N.A.	N.A.	500	N.A.	500
168	InReader Limited	N.A.	N.A.	100	N.A.	N.A.	100
169	JabJabX Limited	N.A.	N.A.	N.A.	100	N.A.	100
170	Jobdoh Limited	N.A.	1,000	500	N.A.	N.A.	1,500
171	Kubot Technology Limited	N.A.	N.A.	N.A.	700	N.A.	700
172	Look Incorporation Limited	N.A.	N.A.	100	N.A.	N.A.	100
173	Marketeer Limited	N.A.	N.A.	N.A.	100	N.A.	100
174	MCTIPSS Limited	N.A.	N.A.	100	N.A.	N.A.	100
175	Microenergy Development Limited	N.A.	N.A.	100	N.A.	N.A.	100
176	MineCos Limited	N.A.	N.A.	100	N.A.	N.A.	100
177	Nearko Limited	N.A.	N.A.	100	N.A.	N.A.	100
178	Next WiFi Technologies Limited	N.A.	N.A.	500	N.A.	500	1,000
179	Parallax Technologies Limited	N.A.	100	N.A.	N.A.	N.A.	100
180	Phi Info (Hong Kong) Limited	N.A.	100	N.A.	N.A.	N.A.	100
181	Plusd Technology Limited	N.A.	100	N.A.	N.A.	N.A.	100
182	Pokeguide Limited	N.A.	N.A.	N.A.	500	N.A.	500
183	R-Guardian Limited ^(Note)	N.A.	100	N.A.	N.A.	N.A.	100
184	Superluminal Technology Limited	N.A.	100	N.A.	N.A.	N.A.	100
185	Techlabs Holdings Limited	N.A.	N.A.	500	N.A.	N.A.	500
186	Ultimate Sports Hub Limited	N.A.	N.A.	100	N.A.	N.A.	100
187	Vision Science and Technology Company Limited	N.A.	N.A.	100	500	500	1,100
188	Vox Technology Limited	N.A.	N.A.	N.A.	100	N.A.	100
189	Zunosaki Limited	N.A.	100	N.A.	N.A.	N.A.	100
Total							113,572

Note: The start-up submitted its funding application in the second year (2017-18) via a different university.

- End -

**State Key Laboratories (SKLs) and
Hong Kong Branches of Chinese National Engineering Research Centres (CNERCs)**

SKLs/Hong Kong Branches of CNERCs(Hosting Organisations)	Funding amount (\$ million)				
	2014-15	2015-16	2016-17	2017-18	2018-19 (Estimate) (Note 1)
SKLs					
1. SKL of Emerging Infectious Diseases (The University of Hong Kong)	5	5	5	5	5
2. SKL of Brain and Cognitive Sciences (The University of Hong Kong)	5	5	5	5	5
3. SKL of Translational Oncology (The Chinese University of Hong Kong)	5	5	5	5	5
4. SKL of Terahertz and Millimeter Waves (City University of Hong Kong)	5	5	5	5	5
5. SKL of Agrobiotechnology (The Chinese University of Hong Kong)	5	5	5	5	5
6. SKL of Ultra-precision Machining Technology (The Hong Kong Polytechnic University)	5	5	5	5	5
7. SKL of Molecular Neuroscience (The Hong Kong University of Science and Technology)	5	5	5	5	5
8. SKL of Marine Pollution (City University of Hong Kong)	5	5	5	5	5

SKLs/Hong Kong Branches of CNERCs(Hosting Organisations)	Funding amount (\$ million)				
	2014-15	2015-16	2016-17	2017-18	2018-19 (Estimate) (Note 1)
9. SKL of Research on Bioactivities and Clinical Applications of Medicinal Plants (The Chinese University of Hong Kong)	5	5	5	5	5
10. SKL of Liver Research (The University of Hong Kong)	5	5	5	5	5
11. SKL of Synthetic Chemistry (The University of Hong Kong)	5	5	5	5	5
12. SKL of Chemical Biology and Drug Discovery (The Hong Kong Polytechnic University)	5	5	5	5	5
13. SKL of Environmental and Biological Analysis (Hong Kong Baptist University)	5	5	5	5	5
14. SKL of Pharmaceutical Biotechnology (The University of Hong Kong)	5	5	5	5	5
15. SKL of Digestive Disease (The Chinese University of Hong Kong)	5	5	5	5	5
16. SKL of Advanced Displays and Optoelectronic Technologies (The Hong Kong University of Science and Technology)	5	5	5	5	5
Total	80	80	80	80	80
Hong Kong Branches of CNERCs					
1. Hong Kong Branch of the National ASIC System Engineering Research Center (Hong Kong Applied	4.69	4.56	4.82	4.93	5

SKLs/Hong Kong Branches of CNERCs(Hosting Organisations)	Funding amount (\$ million)				
	2014-15	2015-16	2016-17	2017-18	2018-19 (Estimate) (Note 1)
Science and Technology Research Institute)					
2. Hong Kong Branch of National Engineering Research Center for Steel Construction (The Hong Kong Polytechnic University) (Note 2)	-	2.5	5	5	5
3. Hong Kong Branch of National Rail Transit Electrification and Automation Engineering Technology Research Center (The Hong Kong Polytechnic University) (Note 2)	-	2.5	5	5	5
4. Hong Kong Branch of National Precious Metals Material Engineering Research Center (City University of Hong Kong) (Note 2)	-	2.5	5	5	5
5. Hong Kong Branch of National Engineering Research Center for Tissue Restoration & Reconstruction (The Hong Kong University of Science and Technology) (Note 2)	-	2.49	5	5	5
6. Hong Kong Branch of Chinese National Engineering Research Center for Control & Treatment of Heavy Metal Pollution (The Hong Kong University of Science and Technology) (Note 2)	-	2.5	5	5	5
Total	4.69	17.05	29.82	29.93	30

Note 1: The estimated funding amounts in 2018-19 are the maximum funding for the relevant institutions. Since the funding is provided on an annual reimbursement basis, the funded institutions will submit funding applications only after the end of each financial year. Therefore, the actual funding amounts are subject to confirmation upon approval of the applications concerned.

Note 2: As 5 of the Hong Kong Branches of CNERCs were established in October 2015, the maximum annual funding for each of them in 2015-16 was adjusted from the original \$5 million to \$2.5 million.

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CONTROLLING OFFICER'S REPLY

ITB106

(Question Serial No. 1473)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (4) Infrastructural Support

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Government earmarked \$20 billion last year for the first phase of the Hong Kong-Shenzhen Innovation and Technology Park (the Park) in the Lok Ma Chau Loop. In this connection, will the Government inform this Committee of the following:

- (1) What are the long-term financial arrangements of the Park upon its completion?
- (2) What are the research and development achievements of the Park as anticipated by the Government?
- (3) What are the vetting criteria for the admission of companies to the Park?
- (4) How will the Park maintain rental stability in order to ensure that tenants can afford the rent and will not be forced out?

Asked by: Hon IP LAU Suk-ye, Regina (LegCo internal reference no.: 20)

Reply:

A consolidated reply to the 4 parts of the question is given below:

The Hong Kong Special Administrative Region (SAR) Government is working full steam to launch various planning and infrastructure projects, and actively developing the Hong Kong-Shenzhen Innovation and Technology Park (the Park). The SAR Government secured a funding of about \$780 million from the Legislative Council in May 2018, and the Advance Works as well as the detailed design and site investigation of Main Works Package 1 for the Lok Ma Chau Loop commenced in June and September the same year respectively.

The Park will set up a key base for cooperation in scientific research, as well as relevant higher education, cultural and creative industries and other complementary facilities, so as to attract top enterprises, research and development organisations and higher education institutions from the Mainland and overseas to establish their presence there and collaborate with local enterprises, universities and research institutions.

The Hong Kong-Shenzhen Innovation and Technology Park Limited (HSITPL), which is responsible for the construction of the superstructure, operation, maintenance and management of the Park, is conducting a “Master Planning Study” and a “Business Model and Business Planning Study” on the development of the Park. Both studies are expected to be completed by the first half of 2019. Findings of the studies will provide important reference for working out the direction of development, mode of operation and financial arrangements, etc. of the Park. When the study is completed, we will make reference to its findings and work out the development strategy and planning for the Park. The HSITPL will also make reference to the findings and recommendations, and formulate the vetting criteria and leasing plans for admission of companies in due course, so as to attract relevant enterprises and talents to station in the Park.

- End -

CONTROLLING OFFICER'S REPLY

ITB107

(Question Serial No. 1474)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Government mentioned in the Budget its plan to inject \$2 billion into the Innovation and Technology Fund for launching a Re-industrialisation Funding Scheme. Will the Government inform this Committee of:

- (1) the specific support for the Scheme;
- (2) the estimated number of smart manufacturers to be benefitted;
- (3) the manpower expenditure of the Scheme?

Asked by: Hon IP LAU Suk-ye, Regina (LegCo internal reference no.: 22)

Reply:

A consolidated reply to various parts of the question is as follows:

The Government plans to inject \$2 billion into the Innovation and Technology Fund (ITF) for launching a Re-industrialisation Funding Scheme (the Scheme) to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong, with a view to expediting the realisation of "re-industrialisation". We are formulating the operational details of the Scheme, including the eligibility criteria, the funding scope, mode and amount, as well as the vetting mechanism, etc. in consultation with the industries. We will consult the Legislative Council (LegCo) Panel on Commerce and Industry on the Scheme in May 2019 before seeking funding approval from the LegCo Finance Committee, with an aim to launch the Scheme in the second half of this year.

The Scheme is part of the work under Programme (3) Planning for Innovation and Technology Development. The establishment under Programme (3) involves 64 staff in 2019-20 and the estimated expenditure is \$152.5 million, which is mainly for salaries and departmental expenses. The relevant staff are responsible for handling various ITF funding schemes. We do not have a breakdown of expenditure for individual work.

- End -

CONTROLLING OFFICER'S REPLY

ITB108

(Question Serial No. 1475)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Government proposed to inject \$10 billion into the Innovation and Technology Fund (ITF) last year to support the continued operation of existing ITF funding schemes. In this connection, will the Government inform this Committee of:

- (1) the details on the support provided by these funding schemes and the estimated expenditures in the financial year of 2018-2019;
- (2) the number of research and development projects to be funded by the schemes in the financial year of 2019-2020;
- (3) whether the Government has reviewed the effectiveness of the ITF; if yes, the details; if not, the reasons?

Asked by: Hon IP LAU Suk-ye, Regina (LegCo internal reference no.: 25)

Reply:

The requested information is provided below:

- (1) The Finance Committee of the Legislative Council approved in July 2018 an injection of \$10 billion into the Innovation and Technology Fund (ITF) for the continued implementation of various funding schemes and the launch of new programmes under the ITF. The revised estimated expenditure for 2018-19 under Subhead 101 Innovation and Technology (block vote) of the ITF was about \$1,386.63 million.

Currently, there are 15 funding schemes under the ITF (including the Midstream Research Programme for Universities (MRP) and the Innovation and Technology Venture Fund (ITVF), which are allocated with dedicated provisions). The number of projects approved and amount of funding approved under each funding scheme in 2018-19 (as at end January 2019) are detailed as follows:

	Funding scheme	Number of projects approved	Amount of funding
<i>Supporting Research and Development</i>			
1.	Innovation and Technology Support Programme (ITSP)	185	About \$521 million
2.	Research and Development Cash Rebate Scheme	274	About \$109 million
3.	Enterprise Support Scheme	37	About \$135 million
4.	MRP	16	About \$83 million
5.	University-Industry Collaboration Programme	18	About \$25 million
6.	Guangdong-Hong Kong Technology Co-operation Funding Scheme (TCFS)	1 ¹	About \$1 million
<i>Facilitating Technology Adoption</i>			
7.	Technology Voucher Programme (TVP)	382	About \$56 million
8.	Public Sector Trial Scheme (PSTS)	29	About \$49 million
<i>Nurturing Technology Talent</i>			
9.	Postdoctoral Hub	360 postdoctoral talents	About \$180 million
10.	Researcher Programme	632 researchers	About \$178 million
11.	Reindustrialisation and Technology Training Programme	349 staff of local enterprises	About \$2.35 million
<i>Supporting Technology Start-ups</i>			
12.	Technology Start-up Support Scheme for Universities (TSSSU)	64	About \$24 million
13.	Innovation and Technology Venture Fund	The Innovation and Technology Commission (ITC) is considering the relevant investment proposals	
<i>Promoting an Innovation and Technology (I&T) Culture</i>			
14.	Patent Application Grant (PAG)	167	About \$42 million
15.	General Support Programme (GSP)	20	About \$29 million

(2) The number of new R&D projects to be funded under the ITF and the funding amount in 2019-20 are subject to the application situation and the vetting results. Summaries

¹ As the applications under Category C (i.e. projects to be jointly solicited, vetted and funded by Guangdong/Shenzhen and Hong Kong) of the TCFS in 2018 are still subject to vetting by the Mainland side, so far only 1 application under Category A (i.e. projects to be solicited, vetted and funded solely by Hong Kong) of the TCFS has been approved in 2018-19.

of the funded projects will be uploaded to the ITF website for public inspection once the approved applicant organisations have duly signed the project agreements.

- (3) Each of the ITF funding schemes has its specific nature, objectives and target beneficiaries, and the ways and criteria for evaluating their effectiveness vary.

It is easier to make concrete evaluation of the outcomes of some of the programmes. As regards the TSSSU, for example, the start-ups receiving funding are required to submit annual reports to ITC on their business development. As at end 2018, out of the 188 start-ups funded by TSSSU, 41 won international awards; 102 generated a total of more than 880 intellectual property rights from their R&D results; 118 rolled out in the market more than 170 products or services in total; 96 generated business revenue; and 127 start-ups were successful in getting investment. The total investment received amounted to some \$300 million. In addition, as at end January 2019, out of the 2 202 applications funded under PAG, 746 applicants were granted with patents. Besides, we requested beneficiary enterprises which had already completed TVP-funded projects to submit assessment reports to ITC. Among the 98 enterprises which had submitted assessment reports, 96% considered that the projects were conducive to enhancing their competitiveness. Furthermore, about 70% of the researchers who had completed the Researcher Programme indicated that they would either continue their career or had planned to pursue a career in I&T-related areas.

On the support for R&D, ITSP has supported a number of successful projects. For example, Professor Dennis Lo from a local university was funded by the ITSP to conduct research on non-invasive prenatal testing and developed a non-invasive prenatal diagnostic technique that is widely adopted by over 90 countries worldwide, benefitting millions of pregnant women around the world. Moreover, the Hong Kong Research Institute of Textiles and Apparel was also funded by the ITSP to conduct R&D on textile recycling. One of the research outcomes was the development of a fully automated system to transform textiles waste into eco-friendly yarns. The technology won the Gold Medal at the 46th International Exhibition of Inventions Geneva in 2018, and was adopted by a company in Hong Kong for setting up an automated recycling mill in the Tai Po Industrial Estate. Meanwhile, the PSTS supports public sector bodies to conduct trial uses of local R&D results and assists in their commercialisation. Successful examples include the trial use of a vest jacket embedded with a radio-frequency identification tracking system for elderly with brain degenerative illness in elderly homes, which assists the staff in taking better care of the elderly; and the adoption of the “Single E-lock Scheme” by the Hong Kong Customs and Excise Department, which greatly reduces customs clearance time through the seamless customs clearance by adopting Internet of Things and electronic lock technologies.

However, it is rather difficult to quantify and evaluate the effectiveness of some funding programmes. For instance, the MRP supports universities funded by the University Grants Committee to conduct midstream R&D projects, the research outcomes of which generally take longer time and require further downstream R&D before being able to be transformed into products. Besides, the GSP supports non-R&D projects that help upgrade local industries and promote an I&T culture in Hong Kong, including conferences, exhibitions, seminars, and youth activities etc.

Fostering a general I&T culture in the community is a gradual and ongoing effort. It is therefore relatively difficult for us to make specific evaluation of the effectiveness of the GSP. Nevertheless, the GSP has supported a number of large-scale activities to promote the I&T culture , including the Hong Kong Student Science Project Competition with over 1 000 participating secondary students, and the InnoCarnival with 200 000 attendance in 2018.

- End -

CONTROLLING OFFICER'S REPLY**ITB109****(Question Serial No. 0263)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): ()

Programme: (2) Promotion of Technological Entrepreneurship

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Innovation and Technology Commission launched in April 2015 the Enterprise Support Scheme (ESS) under the Innovation and Technology Fund, providing funding support to registered Hong Kong companies of all sizes to carry out research and development on innovation and technology. Will the Government inform this Committee of:

- (1) the number of applicant enterprises, the number of successful applications, the number of applications rejected and the reasons for they were being rejected, and the details of the total funding approved each year since the launch of the ESS in tabular form; and
- (2) whether the ESS applicant enterprises can apply for other Government enterprise support or financing guarantee schemes at the same time; if yes, the details; if no, the reasons?

Asked by: Hon LAM Kin-fung, Jeffrey (LegCo internal reference no.: 11)

Reply:

The requested information is provided below:

- (1) Details of the applications under the Enterprise Support Scheme (ESS) are listed below:

Year	Applications considered by the assessment panel	Applications supported <small>Note</small>	Funding amount for the applications supported	Applications not supported
2015-16	85	12	\$40.2 million	69
2016-17	92	15	\$42 million	72

Year	Applications considered by the assessment panel	Applications supported <small>Note</small>	Funding amount for the applications supported	Applications not supported
2017-18	94	36	\$110 million	50
2018-19 (as at end-February)	90	39	\$137 million	47
<u>Total</u>	<u>361</u>	<u>102</u>	<u>\$329 million</u>	<u>238</u>

Note: In the past 4 financial years, there were 4, 5, 8 and 4 applications being withdrawn by the applicants respectively after the support was granted. Such applications are not included in “Applications supported”.

The ESS assessment panel will consider the applications in accordance with the established vetting criteria. Factors to be considered include innovation and technology component of the project, application and/or commercialisation element, technical and management capability, justifications for the estimated expenditure as well as the relevance with government policies. In general, proposed projects failing to satisfy one or more of the above vetting criteria will not be supported by the assessment panel.

- (2) Enterprises granted with funding under the ESS can further apply for other funding schemes under the Innovation and Technology Fund for the same research and development project. However, same expenditure items under the project will not be double funded.

- End -

CONTROLLING OFFICER'S REPLY

ITB110

(Question Serial No. 7191)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

What are the respective numbers of applications received and rejected under the Technology Voucher Programme (TVP) in the past 2 years? Has the Government assessed the effectiveness of the TVP; if yes, what are the details?

Asked by: Hon LAM Kin-fung, Jeffrey (LegCo internal reference no.: 6)

Reply:

Since the launch of the Technology Voucher Programme (TVP) in November 2016 up to end February 2019, the Innovation and Technology Commission (ITC) received a total of 1 565 applications. Of the 1 114 applications assessed by the TVP Committee (the Committee) so far, 1 063 were approved, representing a success rate of 95% and involving a total funding of about \$149 million. 51 applications (5%) were not supported by the Committee; the remaining 451 are still awaiting supplementary information from the applicants or are currently under preliminary assessment by ITC.

ITC has reviewed the effectiveness and modus operandi of the TVP and, based on the result of the review, converted the TVP into a regular funding programme under the Innovation and Technology Fund and implemented the following enhancement measures starting from the 2019 Budget Day (i.e. 27 February 2019):

- (a) doubling the funding ceiling per applicant from \$200,000 to \$400,000;
- (b) expanding the eligibility criteria to cover companies which are incorporated and registered in Hong Kong under the Companies Ordinance and currently exempted from business registration, and statutory bodies set up in Hong Kong (these companies or bodies shall not receive any subvention from the Government on a recurrent basis);
- (c) increasing the maximum number of approved projects per applicant from 3 to 4;

- (d) expanding the list of typical technological services and solutions in the Guidance Notes for Applications;
- (e) simplifying the application procedures by waiving the requirements to submit the quotation invitation documents and to certify the documents required for application;
- (f) simplifying the monitoring procedures by waiving the requirement for obtaining prior approval for early project completion and project extension for no more than six months; and
- (g) providing clearer definitions of “off-the-shelf/readily available items” and “customised items”.

Besides, 98 beneficiary enterprises have already completed their projects and submitted assessment reports to ITC. 96% of them were of the view that the projects were conducive to enhancing their competitiveness while all of them indicated that ITC should continue to implement the TVP.

- End -

CONTROLLING OFFICER'S REPLY

ITB111

(Question Serial No. 0767)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (2) Promotion of Technological Entrepreneurship

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Innovation and Technology Venture Fund (ITVF) co-invests in local innovation and technology (I&T) enterprises with private venture capital (VC) funds on a matching basis, thereby injecting new capital and energy into technology start-ups in Hong Kong. Please inform this Committee of:

- (1) the number of applications for selection as a co-investment partner from VC funds, the details on the co-investment of these VC funds in local I&T start-ups (including the businesses they are engaged in), and the total amount of investment since the establishment of the ITVF;
- (2) the manpower establishment and expenditure for handling the work related to the ITVF and the performance indicators since the setting up of the ITVF Secretariat.

Asked by: Hon LAU Ip-keung, Kenneth (LegCo internal reference no.: 7)

Reply:

The required information is provided below:

- (1) A total of 14 applications for selection as co-investment partners (CP) were received under the Innovation and Technology Venture Fund (ITVF). 6 selected venture capital (VC) funds signed a master agreement on co-investment under the ITVF in the third quarter of 2018. We have been receiving and are now actively considering the investment invitations and relevant proposals from the CPs. Following the completion of the relevant procedures, we will decide whether to make co-investment.
- (2) The Innovation and Technology Commission has set up a Secretariat to handle the work related to the ITVF. The Secretariat comprises the following 5 civil service posts and 1 contract post: 1 Senior Treasury Accountant, 1 Senior Executive Officer, 1 Treasury Accountant, 1 Executive Officer I, 1 Assistant Clerical Officer and 1 contract Investment Advisor. The estimated annual recurrent expenditure for the Secretariat is about \$9.1 million, which includes salary expenses, legal fees, and other administrative and promotional fees.

We believe that the ITVF will help draw more technology companies to set up in Hong Kong, thereby creating more high value-added jobs for our youngsters. We will take the number of start-ups set up in Hong Kong, number of high value-added innovation and technology jobs created and amount of investment VC funds made in Hong Kong as the performance indicators of the ITVF.

- End -

CONTROLLING OFFICER'S REPLY**ITB112****(Question Serial No. 1983)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): ()

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in paragraph 37 of the Budget Speech that Hong Kong should develop “talent-intensive” industries and focus on high value-added activities. However, as mentioned in the Policy Address last year, employers of many sectors have expressed difficulties in staff recruitment. It is always difficult to pool together more top-notch research talent to cater for Hong Kong’s development into an international innovation and technology (I&T) hub, despite the city already having quality technology talent. Most of the initiatives about talent training in the Budget Speech are on-going ones launched in the past, such as the Technology Talent Admission Scheme launched in mid-2018 which has only allotted some 200 quotas so far. Comparing to the current number of more than 30 000 people engaging in the I&T industry in Hong Kong, it is only a drop in the bucket. The Government has mentioned that it will review the implementation details of the scheme in the first half of this year. Please provide details on the work schedule of the review. How to prevent it from being a slow remedy inadequate to address the pressing problem, so that local enterprises can recruit top-notch research talent more easily amid keen global competition for talent?

Asked by: Hon LIAO Cheung-kong, Martin (LegCo internal reference no.: 16)

Reply:

In the face of keen global competition for technology talent, we introduced the Technology Talent Admission Scheme (TechTAS) in June 2018 to provide a fast-track arrangement for eligible technology companies/institutes to admit technology talent to undertake research and development (R&D) work for them in Hong Kong. We will review the implementation details of the TechTAS, such as the scope and the local talent employment requirements, etc., in the first half of this year, in the light of Hong Kong’s technological development.

In addition to admission of talent, we also strengthen our innovation and technology (I&T) talent pool through nurturing and retaining local talent in a proactive manner. We have

introduced various programmes to nurture local technology talent, such as the Researcher Programme (formerly known as the Internship Programme), which provides funding support to recipients of the Innovation and Technology Fund (ITF), incubatees/I&T tenants of the Hong Kong Science and Technology Parks Corporation (HKSTPC) and the Cyberport, as well as local I&T start-ups selected for co-investment under the Innovation and Technology Venture Fund (collectively referred to as “eligible organisations”) to recruit researchers for R&D work. As at end-January 2019, more than 3 800 applications for engagement of researchers have been approved, involving a total funding of about \$900 million. Starting from end-February 2019, we have increased the allowances under the Researcher Programme. The monthly allowances for researchers with a Bachelor’s and a Master’s degree have been increased from \$16,000 and \$19,000 to \$18,000 and \$21,000 respectively. The funding period of the Programme has also been extended from 2 years to 3 years to give researchers ample time for demonstrating their professional strengths in R&D projects.

We launched the Postdoctoral Hub and the Reindustrialisation and Technology Training Programme (RTTP) in August 2018. The Postdoctoral Hub provides funding support to eligible organisations to recruit postdoctoral talent for R&D work. As at end-January 2019, 360 applications have been approved with a total funding of over \$180 million. To further enhance our efforts in nurturing I&T talent, we have extended the funding period from 2 years to 3 years starting from end-February 2019. Besides, the RTTP subsidises local enterprises on a 2:1 matching basis for their staff to receive technology trainings. As at end-January 2019, 349 staff of local enterprises have been funded under the RTTP to receive technology trainings. The total amount of funding was about \$2.35 million.

Meanwhile, the Government has been creating an ecosystem conducive to I&T development through initiatives such as allocating R&D resources and providing technological infrastructure, to attract research talent from around the world. The Government is actively pursuing the InnoHK Clusters in the Hong Kong Science Park, including the “Health@InnoHK” that focuses on healthcare technologies and the “AIR@InnoHK” that focuses on artificial intelligence/robotics technologies, with a view to attracting top-notch universities, research institutions and technology enterprises in the relevant technology areas from local, the Mainland and overseas to establish presence. This initiative will help Hong Kong pool together more research talent for R&D collaborations.

- End -

CONTROLLING OFFICER'S REPLY

ITB113

(Question Serial No. 2005)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Provision for 2019-20 is \$89 million (140.2%) higher than the revised estimate for 2018-19. This is mainly due to increased provision for salary and cash flow requirements for the City Innovation and Technology Grand Challenge. In addition, there will be an increase of 15 posts. Please provide details on the distribution of the above expenditure, the establishments and posts, the salary and operating expenses, as well as the work involved.

Asked by: Hon LIAO Cheung-kong, Martin (LegCo internal reference no.: 38)

Reply:

The aim of Programme (3) is to support the formulation and co-ordination of innovation and technology (I&T) policies and sustain public awareness of I&T. Major work for 2019-20 includes:

- (a) launching the Re-industrialisation Funding Scheme and continuing to administer the Technology Talent Admission Scheme (TechTAS);
- (b) supporting technology co-operation with the Mainland and other overseas economies;
- (c) funding projects which help foster an I&T culture via various support schemes;
- (d) organising I&T promotional events, such as the City Innovation and Technology Grand Challenge (City I&T Grand Challenge); and
- (e) co-ordinating the promotion of the research and development of Chinese medicines, etc.

The overall estimated provision under this Programme for 2019-20 is \$153 million, including \$82.6 million of recurrent expenditure on salary and departmental expenses and \$70 million of non-recurrent expenditure for organising the City I&T Grand Challenge. The estimated provision for 2019-20 is 140.2% (\$89 million) higher than the revised estimate for 2018-19 for reasons including:

- (a) the non-recurrent expenditure for organising the City I&T Grand Challenge; and
- (b) the salaries for the 15 civil service posts to be created for administering the Re-industrialisation Funding Scheme, organising the City I&T Grand Challenge, continuing to administer the TechTAS and supporting technology co-operation with the Mainland.

- End -

CONTROLLING OFFICER'S REPLY

ITB114

(Question Serial No. 2006)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Among the 4 programmes administered by the Innovation and Technology Commission to pool together and nurture talent, the Reindustrialisation and Technology Training Programme (RTTP) subsidises local companies for training in advanced technologies. According to the estimated figures under the RTTP's indicators, there will be a significant increase in the numbers of applications to be received and processed and trainees to be funded. The number of applications will increase from 135 in 2018 to 430, and the number of trainees will increase from 275 to 800. Please provide specific justifications for the estimated increase under the indicators and details on the monitoring mechanism of the RTTP.

Asked by: Hon LIAO Cheung-kong, Martin (LegCo internal reference no.: 39)

Reply:

The Reindustrialisation and Technology Training Programme (RTTP) was launched in August 2018 to subsidise local enterprises on a matching basis for their staff to receive training in advanced technologies. As at end December 2018, a total of 135 training grant applications were processed under the RTTP, and 275 staff of local enterprises were funded to receive technology trainings. When preparing the annual estimates for 2019, we have made reference to the above figures and estimated on a pro-rata basis that about 430 applications will be received and processed and about 800 trainees will be funded to receive technology trainings in 2019.

The RTTP is administered by the Vocational Training Council (VTC), while the technology training courses eligible for funding are overseen and determined by VTC's Innovation and Technology Training Board. The Board, which comprises representatives from various industry and trade organisations, different sectors, relevant public bodies as well as Government departments, will process all course proposals based on the vetting criteria and procedures of the RTTP. Besides, the Innovation and Technology Commission will

examine the budget for the RTTP submitted annually by VTC, and liaise closely with VTC to monitor the operation of the RTTP.

- End -

CONTROLLING OFFICER'S REPLY

ITB115

(Question Serial No. 2007)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Government proposed in the Policy Address to allocate \$2 billion for launching a “Re-industrialisation Funding Scheme” to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong. The Scheme is also one of the Matters Requiring Special Attention in 2019-20 of the Innovation and Technology Commission. Please provide details on the manpower allocation for handling this matter, work details, eligibility criteria to be met by the manufacturers for funding support, and amount of funding available.

Asked by: Hon LIAO Cheung-kong, Martin (LegCo internal reference no.: 40)

Reply:

The Government plans to inject \$2 billion into the Innovation and Technology Fund (ITF) for launching a Re-industrialisation Funding Scheme (the Scheme) to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong, with a view to expediting the realisation of “re-industrialisation”. We are formulating the operational details of the Scheme, including the eligibility criteria, the funding scope, mode and amount, as well as the vetting mechanism, etc. in consultation with the industries. We will consult the Legislative Council (LegCo) Panel on Commerce and Industry on the Scheme in May 2019 before seeking funding approval from the LegCo Finance Committee, with an aim to launch the Scheme in the second half of this year.

The Scheme is part of the work under Programme (3) Planning for Innovation and Technology Development. The establishment under Programme (3) involves 64 staff in 2019-20 and the estimated expenditure is \$152.5 million, which is mainly for salaries and departmental expenses. The relevant staff are responsible for handling various ITF funding schemes. We do not have a breakdown of expenditure for individual work.

- End -

CONTROLLING OFFICER'S REPLY

ITB116

(Question Serial No. 2008)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (6) Subvention: Hong Kong Productivity Council, Hong Kong Applied Science and Technology Research Institute Company Limited

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The key performance indicators for the Hong Kong Productivity Council (HKPC) include the income from training courses and the number of consultancy projects accepted. It is expected that enterprises will likely scale back on staff training and the number of consultancy projects to be accepted in anticipation of a tough business environment. Given that the financial provision for the HKPC in 2019-20 will decrease, and training and consultancy projects will likely be scaled back in face of the business environment this year, how will the Government assist small and medium enterprises to enhance their management system and capabilities in using information and communications technology?

Asked by: Hon LIAO Cheung-kong, Martin (LegCo internal reference no.: 41)

Reply:

The business sentiment in Hong Kong has become increasingly cautious recently, enterprises will therefore likely scale back on staff training and investment spending. Hence, the Hong Kong Productivity Council (HKPC) estimates that the performance under the indicators of “income from training courses” and “number of consultancy projects accepted” in 2019-20 will be less favourable than that in 2018-19.

In addition to providing fee-charging training courses and consultancy services, the HKPC has been organising various free events, including seminars, workshops, exhibitions, etc., to assist small and medium enterprises (SMEs) to enhance their management and capabilities in using information and communications technology (ICT). The HKPC will continue to organise relevant events in 2019-20, which include:

- Organising seminars and workshops via SME One to provide SMEs with information related to the market dynamics, the latest corporate management practices and ICT developments;

- Providing an exchange platform for the industry via Smart Industry One and Smart Industry One Consortium to enable enterprises to keep abreast of the related technologies on smart industry, including the latest ICT, so as to assist enterprises to upgrade and transform;
- Helping the SMEs, in particular the retail enterprises, to implement projects on upgrading and transformation as well as apply technologies to improve management and enhance productivity via various government funding schemes administered by the HKPC, such as the “Dedicated Fund on Branding, Upgrading and Domestic Sales” and the “Retail Technology Adoption Assistance Scheme for Manpower Demand Management”; and
- Organising public talks jointly with the Office of the Government Chief Information Officer and the Hong Kong Police Force via the Hong Kong Computer Emergency Response Team Coordination Centre under the HKPC to raise enterprises’ awareness of information security management and the related technologies.

Besides, while continuing to implement the Technology Voucher Programme, the Government has, starting from the 2019 Budget Day (i.e. 27 February 2019), regularised the programme and rolled out enhancement measures, including doubling the funding ceiling for each enterprise from \$200,000 to \$400,000 to encourage further adoption of technological services and solutions (including ICT) by local enterprises to improve management and enhance operational efficiency.

- End -

CONTROLLING OFFICER'S REPLY

ITB117

(Question Serial No. 0204)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Government has been implementing the Technology Talent Admission Scheme (TechTAS) since June last year to expedite the admission of technology talent to undertake research and development activities in Hong Kong. In this connection, will the Government advise on:

1. the total number of applications received, the actual number of quotas allotted and the success rate since the launch of the TechTAS; and
2. the main reasons for the quota applications being rejected; whether the Government will review the effectiveness of the TechTAS and introduce enhancement measures as early as possible; if yes, the details; if no, the reasons?

Asked by: Hon LO Wai-kwok (LegCo internal reference no.: 16)

Reply:

A consolidated reply to the 2 parts of the question is as follows:

The Technology Talent Admission Scheme (TechTAS) was launched in June 2018. As at end-February 2019, a total of 226 quota applications were received under the TechTAS, 225 quotas have been allotted while the remaining one is being processed. We will review the implementation details of the TechTAS in the first half of this year in the light of Hong Kong's technological development.

- End -

CONTROLLING OFFICER'S REPLY

ITB118

(Question Serial No. 1075)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The level of cash rebate of the Research and Development Cash Rebate Scheme (CRS) has been increased from 30% to 40% effective from 24 February 2016. The CRS has been subsumed under the Innovation and Technology Fund (ITF) to provide a more stable and longer-term financial support to sustain efforts in the promotion of private sector investment in research and development (R&D). In this connection, please advise on the following:

1. What are the number of applications received, the actual number of applications approved, and the actual total amount of cash rebate approved in 2016-2017, 2017-2018 and 2018-2019 respectively?
2. In order to promote the development of Hong Kong into an international innovation and technology hub, will the Government re-consider calls from the technology industry to expand the scope of the CRS beyond “companies participating in applied R&D projects funded under the ITF or conducted in partnership with designated local public research institutions”, and enhance the CRS; if yes, what are the details; if no, what are the reasons?

Asked by: Hon LO Wai-kwok (LegCo internal reference no.: 36)

Reply:

The required information is provided as follows:

- (1) The Research and Development (R&D) Cash Rebate Scheme (CRS) provides cash rebate to 2 types of applied R&D projects, namely R&D projects funded under the Innovation and Technology Fund and partnership projects. In the past 3 years (i.e. 2016-2017, 2017-2018 and 2018-2019 (as at end-January 2019)), the total number of projects involving cash rebate applications was 259, 255 and 249 respectively and all eligible applications were approved. The total amount of cash rebate was about \$72 million, \$100 million and \$108.5 million respectively.

- (2) We review the implementation and effectiveness of the CRS and introduce enhancement measures from time to time. For example, we extended the scope of the CRS to cover private companies participating in the Enterprise Support Scheme and the Midstream Research Programme for Universities in April 2015 and December 2016 respectively, so as to benefit more companies (including small and medium enterprises).

Besides, in order to promote private sector investment in R&D, we have amended the Inland Revenue Ordinance to provide a two-tier rate of enhanced tax deduction for R&D expenditure incurred by enterprises on 1 April 2018 and thereafter. The deduction is 300% for the first \$2 million of qualifying R&D expenditure and 200% for the remaining amount. There is no cap on the amount of enhanced tax deduction.

- End -

CONTROLLING OFFICER'S REPLY

ITB119

(Question Serial No. 1079)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): ()

Programme: (6) Subvention: Hong Kong Productivity Council, Hong Kong Applied Science and Technology Research Institute Company Limited

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The major work of the Hong Kong Productivity Council includes promoting re-industrialisation and assisting the relevant enterprises in moving towards high value-added production. In this connection, will the Government advise on:

1. the amount of resources put into such work and the major achievements in 2016-2019; and
2. the amount of resources to be allocated into such work and the major projects to be launched in 2019-2020.

Asked by: Hon LO Wai-kwok (LegCo internal reference no.: 40)

Reply:

The requested information is provided below:

- (1) The Hong Kong Productivity Council (HKPC) has been dedicating efforts to promoting "re-industrialisation" to facilitate enterprises in moving towards high value-added production and gradually upgrading towards Industry 4.0. The major work in 2016-19 is as follows:
 - HKPC was officially accredited as an "Industry 4.0 Expert" by the Fraunhofer Institute for Production Technology, Germany (Fraunhofer IPT) in 2016, and proceeded to organise a series of activities such as international conferences and seminars on industrial innovation strategy to enhance the industry's understanding of Industry 4.0. These activities attracted over 10 200 industry participants. In the same year, the HKPC established the "Industry 4.0 Upgrade and Recognition Programme" with Fraunhofer IPT to help the industry gradually

upgrade its operation towards Industry 4.0. Currently, a total of 47 enterprises have participated in the Programme and implemented Industry 4.0 at different levels;

- Smart Industry One was established in August 2017 to demonstrate the concepts and smart features of Industry 4.0 with a view to promoting adoption of Industry 4.0-related technologies by the industry;
- An Inno Space was established in October 2017 to provide workspace and technical support to users and assist them in developing innovative ideas into industrial design, which may subsequently be translated into products through prototyping. As at end-December 2018, the Inno Space attracted over 18 800 visitors and recruited over 460 members. During this period, 80 workshops on equipment and machinery, 82 safety training orientations and 60 seminars/gatherings, etc., were also organised;
- Smart Industry One Consortium was established in March 2018 as a platform to facilitate information exchange on smart industry, assisting enterprises in upgrading and transforming into smart enterprises. Currently, the Smart Industry One Consortium has over 170 members coming from different sectors;
- Hong Kong's first Professional Diploma Programme in Industry 4.0 was launched in March 2018 jointly with the Vocational Training Council and Fraunhofer IPT, enhancing the Industry 4.0-related skills of industry practitioners; and
- The Invention Centre was established jointly with Fraunhofer IPT in October 2018 to assist the industry in accelerating adoption of innovative industrial technologies, and promoting the development of smart industry and digital manufacturing. So far, the Invention Centre has organised a total of 5 briefings as well as 5 expert meetings and seminars.

(2) In 2019-2020, the HKPC will continue the above efforts to promote re-industrialisation and launch the following measures:

- Setting up a HKPC Institute of Innovation & Technology (Shenzhen) in Shenzhen to provide Hong Kong enterprises in the Bay Area with solutions and services based on intelligent manufacturing, artificial intelligence, big data, environmental technology, etc.;
- Conducting research and development on advanced material manufacturing and processing technologies, such as additive manufacturing materials, degradable polymer, smart fabric, renewable plastics, etc.;
- Organising Hong Kong Industry Network Clusters consultation sessions to conduct in-depth discussions with major chambers of commerce from different sectors, industry support organisations, government representatives and enterprises in Hong Kong on the challenges faced by and the needs of the industry in response to technological innovation, and to introduce the latest

technological solutions, including the core technologies related to Industry 4.0;

- Organising different types of training programmes, focused seminars and research result showcases to introduce new technologies and showcase the latest scientific research results, so as to encourage the industry to grasp the opportunities brought about by technological innovation.

The expenditures on promoting re-industrialisation by HKPC are met by government subvention and HKPC's revenue. No breakdown of the expenditures is available.

- End -

CONTROLLING OFFICER'S REPLY

ITB120

(Question Serial No. 1802)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Budget mentions the work on overseeing the launch of the City Innovation and Technology Grand Challenge (Grand Challenge). Will the Government advise on:

- (1) the format and details of the City I&T Grand Challenge, the timetable, estimated expenditure and manpower required for 2019-20;
- (2) whether additional non-civil service contract staff will be recruited or other staff be hired through contract service providers for implementing the project; if yes, the number of such staff, the posts, estimated expenditure and duration;
- (3) the monitoring mechanism for the specified implementation plans and schedules of the funded solutions; the performance targets of the funded solutions and whether any performance indicators have been put in place for measurement; and
- (4) the estimated expenditure on providing cash prize and other awards, supporting the realisation, refinement and trial of selected solutions, organising workshops, and covering the costs of competition venues, publicity and promotion as well as other expenses for organising the competition?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 63)

Reply:

A consolidated reply to the various parts of the question is given below:

In order to create a fervid innovation and technology (I&T) atmosphere and promote the use of I&T to tackle problems encountered in daily lives, the Government has allocated \$500 million to organise the annual City Innovation and Technology Grand Challenge (Grand Challenge). We will openly invite members from all walks of life in the community to put forward solutions with I&T elements with respect to issues that are closely related to daily lives. Shortlisted participants passing the preliminary assessment will be arranged to attend different skills workshops which will assist them in refining their concepts and formulating detailed proposals for taking part in the final competition. We

will select from the winning entries one or more solutions and assist their development of the technologies or concepts involved for trials in suitable public sector organisations, so as to realise and enhance the solutions for tackling vexing problems in the community with I&T. In addition to cash prize, winners may be offered the opportunity to join support programmes of the Hong Kong Science and Technology Parks Corporation.

We will formulate guidelines stating the rights and responsibilities of the stakeholders of the funded solutions to ensure proper use of public money. The progress of the funded solutions will also be monitored having regard to the committed implementation plans and schedules. Funding will be disbursed by instalments to the winners with the pre-determined milestones serving as indicators. In case of non-compliance with the funding agreements/guidelines, the Government may withhold or terminate the disbursement of funding.

The Innovation and Technology Commission (ITC) has earmarked \$70 million in the 2019-20 financial year for the implementation of the Grand Challenge. The provision earmarked will be used to provide cash prize and other awards, support the refinement, development and trial of selected solutions, organise skills workshops, and cover the costs of competition venues, publicity and promotion as well as other expenses for organising the competition, etc. As the expenditures involved in the development and trial of different innovative ideas can vary substantially depending on the nature of the winning solutions and the technologies involved, a specific breakdown of the estimated expenditure is currently not available.

ITC will create 1 time-limited Executive Officer I post in 2019-20 to assist in the implementation of the Grand Challenge, and the estimated annual salary expenditure is about \$770,000. ITC will consider recruiting non-civil service contract staff to support the relevant work where necessary.

- End -

CONTROLLING OFFICER'S REPLY

ITB121

(Question Serial No. 1803)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in the Budget Speech that the Government will regularise the Technology Voucher Programme (TVP) and roll out enhancement measures, including doubling the funding ceiling for each enterprise from \$200,000 to \$400,000 to encourage the wider adoption of technology by local enterprises to improve their efficiency and services. Page 435 of the Estimates mentions the administration of the TVP and publicity of the programme via briefings and other channels. Will the Government inform this Committee of:

- (1) the respective numbers of applications received and approved so far, as well as the average and total amount of funding approved by the major types of business engaged in by the applicant enterprises and the technological services/solutions under application;
- (2) the number of applications yet to be approved by reasons (such as missing key documents, awaiting supplementary documents, or information being verified, etc.)
- (3) the average number of working days required for approval of applications upon submission;
- (4) the specific details in respect of the regularisation of the TVP and the enhancement measures, including doubling the funding ceiling for each enterprise from \$200,000 to \$400,000, the estimated manpower and resources required, and the timetable; and
- (5) whether it will consider introducing measures such as a white list of advanced service providers to expedite the approval procedures?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 64)

Reply:

The requested information is provided below:

- (1) and (2) Since the launch of the Technology Voucher Programme (TVP) in November 2016 up to end February 2019, the Innovation and Technology Commission (ITC) received a total of 1 565 applications. Of the

1 114 applications assessed by the TVP Committee (the Committee), 1 063 have been approved, representing a success rate of 95%, and involving a total funding of about \$149 million and an average funding of about \$140,000. 51 applications (5%) not supported by the Committee were mainly cases for purchasing off-the-shelf software and hardware (e.g. mobile phones, tablets, office suite software, etc); or cases involving only little or no technological elements, or with unreasonable project budget/implementation details. Currently, 451 applications are still awaiting supplementary information from the applicants or are under preliminary assessment by ITC.

The major types of business engaged in by the applicants and the number of applications already approved are as follows –

Type of business	Number of applications ^{Note 1}	Number of applications already approved ^{Note 1}
Wholesale and retail	356	247
Import and export trade	239	184
Professional services	101	74
Restaurants and hotels	86	21
Information technology	72	51

^{Note 1} Applicants may engage in more than one type of business.

The major types of technological services or solutions involved in the proposed projects and the number of applications already approved are as follows –

Technological service or solution	Number of applications ^{Note 2}	Number of applications already approved ^{Note 2}
Enterprise resource planning solution	873	598
Electronic inventory management system	360	243
Document management and mobile access system	301	225
Point-of-sales system	278	161
Appointment scheduling and queue management system	190	85

^{Note 2} Proposed projects may involve more than one technological service or solution.

- (3) From receipt of an application to completion of vetting by the Committee, the shortest processing time is 13 working days. 10% of the cases took less than 39 working days to process. The overall average processing time is about 80 working days. The actual processing time depends on the completeness and clarity of the information in the application, as well as the time required by the applicant to submit supplementary information.

- (4) Starting from the 2019 Budget Day (i.e. 27 February 2019), the Government has converted the TVP into a regular funding programme under the Innovation and Technology Fund, and implemented the following enhancement measures:
- (a) doubling the funding ceiling per applicant from \$200,000 to \$400,000;
 - (b) expanding the eligibility criteria to cover companies which are incorporated and registered in Hong Kong under the Companies Ordinance and currently exempted from business registration, and statutory bodies set up in Hong Kong (these companies or bodies shall not receive any subvention from the Government on a recurrent basis);
 - (c) increasing the maximum number of approved projects per applicant from 3 to 4;
 - (d) expanding the list of typical technological services and solutions in the Guidance Notes for Applications;
 - (e) simplifying the application procedures by waiving the requirements to submit the quotation invitation documents and to certify the documents required for application;
 - (f) simplifying the monitoring procedures by waiving the requirement for obtaining prior approval for early project completion and project extension for no more than six months; and
 - (g) providing clearer definitions of “off-the-shelf/readily available items” and “customised items”.

At present, 16 staff are responsible for the implementation of the TVP. The estimated total salary costs for 2019-20 is about \$9.9 million.

- (5) Since the launch of the TVP in November 2016, ITC has implemented different measures to streamline the application procedures as far as practicable, such as optimising the online application system, reducing the number of documents required for submission, and providing samples of a completed application form and required documents for reference, etc. Furthermore, applications fulfilling the conditions will be submitted to the Committee for assessment by circulation or through meetings as soon as possible, so as to expedite the vetting process.

We consulted the industries on the details of the TVP before its launch and received strong views against the setting up of a specific list of technological service providers. Besides, setting up an approved list involves a range of work on registration, verification and vetting, which will increase the administrative burden on the service providers. As such, we consider it inappropriate to set up a specific list of service providers.

We will closely monitor the implementation of the TVP, conduct reviews and introduce more enhancement measures in due course.

- End -

CONTROLLING OFFICER'S REPLY

ITB122

(Question Serial No. 1804)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (4) Infrastructural Support

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Government has provided funding of \$10 billion to establish 2 research clusters in the Hong Kong Science Park, namely "Health@InnoHK" focusing on healthcare technologies and "AIR@InnoHK" focusing on artificial intelligence and robotics technologies. Will the Government advise on the following:

- (1) What are the respective numbers of application proposals for admission to the 2 clusters received from universities, research institutions and enterprises so far, as well as the estimated number of research and development (R&D) centres/laboratories to be approved for establishment in the first round and the directions of the R&D projects?
- (2) The Guidance Notes for Admission states that the proposed research laboratory should demonstrate a strong commitment to nurturing local research talent, in different research capacities and positions, through the latter's active involvement in the laboratory's research programmes. What are the specific requirements and arrangements?
- (3) What are the estimated number of admitted institutions that will admit technology talent from outside Hong Kong to undertake related R&D work through the fast-track arrangements under the Technology Talent Admission Scheme and the number of such talents to be admitted?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 65)

Reply:

A consolidated reply to the various parts of the question is as follows:

Since the announcement of the InnoHK initiative, 47 proposals have been received from a number of world leading universities and research institutions from Hong Kong, overseas and the Mainland. The relevant vetting process is still underway.

Universities, research institutions and enterprises interested in applying for admission into InnoHK are required to specify in their proposals plans for local talent development for their

proposed research laboratories. Such plans should include the number of local research personnel, the numbers of local post-doctoral researchers, Ph.D. students and interns, etc. Research laboratories at the clusters may make use of the Technology Talent Admission Scheme to apply to admit eligible non-local talents to undertake R&D work there, facilitating exchange with local scientific research talents. We are unable to estimate the number of applications at the moment as it depends on the research areas of the research laboratories concerned and the local recruitment situation.

- End -

CONTROLLING OFFICER'S REPLY

ITB123

(Question Serial No. 1805)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (4) Infrastructural Support

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in the Budget Speech that to attract more local graduates to the industry, the Government has, with immediate effect, increased the monthly allowance for researchers, and extended the funding period of both the Researcher Programme and the Postdoctoral Hub from 2 years to 3 years, which means research and development (R&D) institutes or enterprises can hire relevant R&D talents for 3 years. It is stated in the Estimates of Expenditure that the Government will contribute to development of local high-technology human capital by recruiting local engineering graduates as fellows under the Postdoctoral Hub and Researcher Programmes. In this connection, please inform this Committee of the following:

- (1) What are the respective research projects and research institutions funded by the Innovation and Technology Fund (ITF) to recruit interns, the number of interns, the areas of the research projects and the funding amount in the latest 3 financial years?
- (2) What are the percentage of researchers employed for 2 consecutive years under the Researcher Programme, and the number and percentage of researchers securing a job in the scientific research field after completing the engagement in the past 3 years?
- (3) What is the number of applications received and approved under the Researcher Programme and the annual total amount of funding in the past 3 years? Please list in tabular form by researchers with a Bachelor's degree or a Master's and/or higher degree.
- (4) What are the number of beneficiary companies, the total number of additional researchers employed and the total amount of funding in 2018-19 upon the increase in allowances and the extension of the Researcher Programme last year to cover incubatees and small and medium enterprises (SME) tenants of Cyberport and the Science Park? Please list in tabular form by researchers with a Bachelor's degree or a Master's and/or higher degree. What are the estimated number of beneficiary companies, the number of additional researchers employed and the total amount of funding in 2019-20? Please list in tabular form by researchers with a Bachelor's degree or a Master's and/or higher degree. What is the estimated additional expenditure incurred from the extension of the funding period?

(5) What are the types of courses and technologies involved in the approved applications for the Reindustrialisation and Technology Training Programme under the Technology Talent Scheme, as well as the number of trainees approved for funding support and total amount of funding?

(6) What are the expenditure and details of publicity activities for promoting the Researcher Programme to incubatees and SMEs, as well as the number of participants in 2018-19? What are the estimated expenditure and publicity plan for promoting the Programme in the coming year?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 66)

Reply:

The requested information is provided below:

- (1) A breakdown of the figures related to the Researcher Programme (the Programme) (formerly known as Internship Programme) by research area in the latest 3 financial years is tabulated below:

Research area	Year	Research institution																	Total number of researchers approved	Funding amount approved (\$ million)
		The Chinese University of Hong Kong	City University of Hong Kong	The Education University of Hong Kong	Hong Kong Baptist University	The Hong Kong Polytechnic University	The Hong Kong University of Science and Technology	The University of Hong Kong	The Hang Seng University of Hong Kong	Vocational Training Council	Hong Kong Productivity Council	Hong Kong Institute of Biotechnology	Automotive Parts and Accessory Systems R&D Centre	Hong Kong Research Institute of Textiles and Apparel	Hong Kong Applied Science And Technology Research Institute	Logistics and Supply Chain MultiTech R&D Centre	Nano and Advanced Materials Institute	Private companies		
Biotechnology	2016-17	22	4	0	4	12	11	9	0	0	0	1	0	2	0	0	0	15	80	21.2
	2017-18	17	4	0	2	8	12	9	0	0	0	1	0	1	0	0	0	38	92	28.4
	2018-19 ^{Note}	22	7	0	1	5	7	8	0	0	0	0	0	0	0	0	0	35	85	25.3
Chinese medicine	2016-17	2	0	0	9	2	6	1	0	0	0	0	0	0	0	0	0	0	20	5.5
	2017-18	0	0	0	6	2	5	8	0	0	0	0	0	0	0	0	0	0	21	6.5
	2018-19 ^{Note}	2	0	0	3	2	2	5	0	0	0	0	0	0	0	0	0	0	14	4.2
Electrical and electronics	2016-17	3	2	0	0	0	2	5	0	0	0	0	2	0	8	0	1	5	28	7.7
	2017-18	4	9	0	0	6	4	1	0	0	0	0	0	0	9	0	0	65	98	32.0
	2018-19 ^{Note}	5	1	0	0	5	1	5	0	0	0	0	0	0	3	0	0	54	74	24.4
Environmental technology	2016-17	1	5	0	0	4	10	4	0	0	2	2	0	2	0	0	1	6	37	11.2
	2017-18	2	5	0	0	7	14	2	0	0	0	0	1	4	0	0	0	10	45	14.4
	2018-19 ^{Note}	4	8	0	0	1	6	0	0	0	1	0	2	2	0	0	1	5	30	10.1
Information technology	2016-17	9	1	0	2	3	12	5	0	1	0	0	0	2	10	6	0	22	83	19.3
	2017-18	7	1	2	6	9	20	4	0	0	0	0	0	1	31	9	0	18	289	82.0
	2018-19 ^{Note}	0	1	1	2	10	11	4	2	0	0	0	0	0	23	1	0	21	286	73.1
Manufacturing technology	2016-17	8	8	0	0	25	2	0	0	0	14	0	8	11	4	0	1	6	87	21.9
	2017-18	12	1	0	0	23	8	2	0	0	12	2	3	18	0	0	0	1	91	25
	2018-19 ^{Note}	18	2	0	0	13	9	1	0	0	17	0	9	21	3	0	1	2	96	27.3
Material Science	2016-17	0	8	0	0	5	0	0	0	0	0	0	0	6	0	0	0	0	19	4.2
	2017-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2018-19 ^{Note}	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nanotechnology	2016-17	0	3	0	0	2	4	9	0	0	0	0	0	0	0	10	3	31	31	7.6
	2017-18	0	7	0	0	1	6	3	0	0	0	0	0	0	0	6	6	29	29	9.5
	2018-19 ^{Note}	2	9	0	2	1	3	5	0	0	0	0	0	0	0	1	19	42	42	11.8
Others	2016-17	0	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0	4	4	1.3
	2017-18	0	3	2	0	0	2	0	0	0	0	0	0	0	0	0	0	7	7	2.3
	2018-19 ^{Note}	0	1	0	0	3	0	0	0	0	0	0	0	1	0	0	0	5	5	1.3

Note: as at end-January 2019

The summaries of research and development (R&D) projects are available on the Innovation and Technology Fund website (https://www.itf.gov.hk/1-eng/prj_search_index.asp).

- (2) In the past 3 years, the average engagement period of a researcher exceeds 14 months. Around 70% of researchers who had completed the Programme either found a job or indicated interest in pursuing a career in the scientific research field.
- (3) The number of applications and the amount of funding approved under the Programme by the academic qualification of researchers in the latest 3 financial years are tabulated as follows:

Year	2018-19 (as at end-January 2019)		2017-18		2016-17	
	Bachelor's degree	Master's or higher degree	Bachelor's degree	Master's or higher degree	Bachelor's degree	Master's or higher degree
Number of applications received and processed	370	298	378	351	180	273
Number of researchers approved	347	285	343	329	147	242
Total amount of funding approved (\$ million)	177.5		200.1		99.9	

- (4) In the financial year 2018-19 (as at end-January 2019), applications from a total of 241 companies of the Hong Kong Science and Technology Parks Corporation (HKSTPC) and the Cyberport were approved, involving 316 researchers, of whom 107 had a Master's or higher degree. The total amount of funding approved was about \$89.9 million. We expect that about 420 applications from companies of both HKSTPC and Cyberport will be received and processed in 2019, involving funding of about \$138 million.

We estimate that following the extension of the funding period under the Programme, over 700 applications will be received per year, involving an additional annual expenditure of about \$184 million.

- (5) As at end January 2019, 175 training grant applications were approved under the Reindustrialisation and Technology Training Programme to fund 349 staff of local enterprises to receive technology trainings. The total amount of funding was about \$2.35 million. These training grant applications involved 38 registered public courses and 1 tailor-made course, covering technology areas such as "Industry 4.0"-related technologies, information technology, textiles and clothing, biomedicine and medical care, automobile technology and environmental protection, etc.

- (6) We promote the Programme to their incubatees and tenants and communicate with target companies mainly through the HKSTPC and the Cyberport. No additional government manpower and expenditure are involved.

- End -

CONTROLLING OFFICER'S REPLY

ITB124

(Question Serial No. 1806)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in the Budget Speech that the Government has, with immediate effect, increased the monthly allowance for researchers, and extended the funding period of both the Researcher Programme and the Postdoctoral Hub from 2 years to 3 years, which means research and development (R&D) institutes or enterprises can hire relevant R&D talents for 3 years. In this connection, please inform this Committee of the following:

- (1) Since the launch of the Technology Talent Scheme (TTS) in last August, how many funding applications for the Postdoctoral Hub under the TTS have been received and approved by the Government?
- (2) What is the number of companies involved in the approved applications under the Postdoctoral Hub? How many of them are (i) organisations funded by the Innovation and Technology Fund (ITF), and (ii) incubatees and innovation and technology (I&T) tenants of the Hong Kong Science and Technology Parks Corporation/Hong Kong Cyberport Management Company Limited (incubatees and I&T tenants)?
- (3) Please list in tabular form the technology areas in which the I&T postdoctoral talent recruited under the Postdoctoral Hub are engaged. What is the average time needed for processing an application?
- (4) What are the estimated number of organisations or enterprises to be benefitted from the extension of the funding period from 2 years to 3 years and the expenditure involved?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 67)

Reply:

The required information is provided as follows:

- (1) Since the launch of the Postdoctoral Hub in August 2018 up to end January 2019, 380 applications were received, of which 360 were approved, involving a total funding of over \$180 million.

- (2) Among the 360 applications approved, 283 came from organisations/companies funded by the Innovation and Technology Fund to conduct research and development projects, and 77 from incubatees/innovation and technology tenants of the Hong Kong Science and Technology Parks Corporation or the Cyberport.
- (3) Upon receipt of the information required, it takes about 5 working days on average to process an application. As at end January 2019, the number of approved postdoctoral talents by technology area is as follows:

Technology area ^{Note}	Number of postdoctoral talents approved
Engineering and Technology	211
Life Science and Medicine	80
Natural Science	67
Others	2
Total	360

^{Note}: The technology areas are categorised based on the Quacquarelli Symonds World University Rankings by Subject. Subjects under Engineering and Technology include Computer Science and Information Systems, Chemical Engineering, Civil and Structural Engineering, Electrical and Electronics Engineering, etc.

- (4) We expect that approximately 400 applications will be received every year under the Postdoctoral Hub, and the additional annual expenditure for the extension of the funding period will be about \$150 million.

- End -

CONTROLLING OFFICER'S REPLY

ITB125

(Question Serial No. 3206)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in the Budget Speech that the Government will inject \$2 billion into the Innovation and Technology Fund for launching a Re-industrialisation Funding Scheme to subsidise manufacturers on a matching basis to help them set up smart production lines in Hong Kong. Regarding the measures for the development of re-industrialisation, please advise this Committee on:

- (1) the eligibility of organisations to be subsidised, including the areas of real high-end production/business type; the estimated number of applicant manufacturers; the application procedures and time required; the details of maximum funding amount and duration of funding; the estimated number of beneficiary organisations;
- (2) the work plan, timetable, and manpower and resources required for the Scheme in 2019-20; when the Scheme is expected to be launched; and
- (3) the number of approved applications for the Reindustrialisation and Technology Training Programme under the Technology Talent Scheme, types of courses and technologies involved, and total amount of funding approved; the eligibility of enterprises; the reasons for rejecting the applications; the application procedures and average time required; the number of beneficiary organisations and the number of staff of local enterprises to be trained on high-end technologies.

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 68)

Reply:

The required information is provided as follows:

- (1) and (2) The Government plans to inject \$2 billion into the Innovation and Technology Fund (ITF) for launching a Re-industrialisation Funding Scheme (the Scheme) to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong, with a view to expediting the realisation of "re-industrialisation". We are formulating the operational

details of the Scheme, including the eligibility criteria, the funding scope, mode and amount, as well as the vetting mechanism, etc. in consultation with the industries. We will consult the Legislative Council (LegCo) Panel on Commerce and Industry on the Scheme in May 2019 before seeking funding approval from the LegCo Finance Committee, with an aim to launch the Scheme in the second half of this year.

The Scheme is part of the work under Programme (3) Planning for Innovation and Technology Development. The establishment under Programme (3) involves 64 staff in 2019-20 and the estimated expenditure is \$152.5 million, which is mainly for salaries and departmental expenses. The relevant staff are responsible for handling various ITF funding schemes. We do not have a breakdown of expenditure for individual work.

- (3) As at end January 2019, 175 training grant applications were approved under the Reindustrialisation and Technology Training Programme to fund 349 staff from 166 local enterprises to receive technology trainings. The total amount of funding was about \$2.35 million. These training grant applications involved 38 registered public courses and 1 tailor-made course, covering technology areas such as “Industry 4.0”-related technologies, information technology, textiles and clothing, biomedicine and medical care, automobile technology and environmental protection, etc. It takes about 6 days and 14 days on average for approval of training grant applications of public courses and tailor-made courses respectively.

Companies interested in applying for public course training grant for their employees should submit completed application forms with supporting documents to the Vocational Training Council, which serves as the Secretariat, 2 weeks before the commencement of the courses (8 weeks for training grant applications for tailor-made courses). The applicant companies must be registered in Hong Kong under the Business Registration Ordinance (Cap. 310) and a non-government subvented organisation. The employees nominated for training must be Hong Kong permanent residents with the necessary background or experience relevant to the advanced technologies of the training courses. Besides, the technologies covered by the training courses should be advanced in nature and not yet be widely adopted in Hong Kong. The adoption of such technologies should also benefit the economy of Hong Kong. Applications that do not meet the above eligibility criteria will be rejected.

- End -

CONTROLLING OFFICER'S REPLY

ITB126

(Question Serial No. 3714)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (4) Infrastructural Support

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding enhancing the support of the Hong Kong Science and Technology Parks Corporation (HKSTPC) for its tenants and incubatees, and setting up a Smart Campus in the Hong Kong Science Park (HKSP) etc., will the Government advise on the following:

(1) What are the details of the plan of enhancing the facilities in HKSP and strengthening HKSTPC's support measures such as various Incubation Programmes? What are the financial arrangement and distribution of expenditure, the timetable, as well as the manpower and resources required? In addition to office space and cash subsidy, is there any additional support provided for their research and business development, such as marketing programmes?

(2) What are the financial arrangement and distribution of expenditure for setting up the Smart Campus in HKSP, including the consultation expenses, design and construction fees? How will the Government evaluate the effectiveness of the Smart Campus?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 157)

Reply:

The required information is provided as follows:

(1) Since October 2018, the Hong Kong Science and Technology Parks Corporation (HKSTPC) has enhanced its 3 Incubation Programmes, including Incu-App, Incu-Tech, and Incu-Bio, under which the funding ceilings for incubatees have been increased from \$60,000, \$180,000 and \$240,000 to \$860,000, \$1.29 million and \$4 million respectively. The scope of funding includes rental subsidy, grant, and targeted funding for technology and business development. Besides, the HKSTPC has launched the Science and Technology Entrepreneur Programme to provide pre-incubation for entrepreneurial technology talents, including \$100,000 seed funding to help them turn their innovative ideas into reality and start their own businesses.

On the front of assisting start-ups in market promotions, the HKSTPC will continue to arrange for incubatees to participate in large-scale technological exhibitions and conferences in different parts of the world, and will organise business and investment matching activities during the events. Meanwhile, the HKSTPC will facilitate technology companies in the Hong Kong Science Park (HKSP) to identify solutions on technological application for local enterprises/public organisations through the “Technologies from Science Park” programme, so as to assist innovation and technology companies in the commercialisation of research outcomes. The HKSTPC will deploy additional manpower appropriately to implement the aforesaid measures.

- (2) By setting up the Smart Campus, the HKSTPC aims to create a living laboratory to allow trials of innovative and technological projects of HKSP companies under the themes of “Smart Mobility”, “Smart Environment”, “Smart Living” and “Smart People”, etc. This will showcase local research technologies on one hand, and enable the public to understand and experience the results of smart solutions on the other. An advisory committee on the Smart Campus has been set up to give recommendations on its development. The HKSTPC is also gradually building up the infrastructural facilities at the Smart Campus, such as expanding the data platforms. The development cost at this stage is met by the HKSTPC’s internal resources. We will evaluate the effectiveness of the Smart Campus based on the number of the technological projects applied in and out of the Smart Campus.

- End -

CONTROLLING OFFICER'S REPLY

ITB127

(Question Serial No. 3716)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (4) Infrastructural Support

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in the Budget Speech that the Hong Kong Science and Technology Parks Corporation will expand the Corporate Venture Fund (CVF) to \$200 million. Please advise on the following:

What are the details of the Incubation Programme members/graduates/partner enterprises in the Hong Kong Science Park (HKSP) that successfully received investment through the CVF, as well as the investment amount in the past 3 years? Which technology areas are they engaged in? How many angel investors and professional investment organisations made matching investments in the companies in HKSP through this CVF?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 158)

Reply:

The Hong Kong Science and Technology Parks Corporation launched the Corporate Venture Fund (CVF) in July 2015 to co-invest, on a matching basis with angel investors or venture capital funds, in start-ups which are located in the Hong Kong Science Park or have participated in its incubation programmes. So far, the CVF has invested in 9 enterprises and attracted 22 co-investors with an investment of over \$673 million. These 9 enterprises are respectively engaged in areas such as biotechnology, artificial intelligence, robotics and information technology.

- End -

CONTROLLING OFFICER'S REPLY

ITB128

(Question Serial No. 3718)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (2) Promotion of Technological Entrepreneurship

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Budget Speech mentions that the maximum annual funding for the Technology Start-up Support Scheme for Universities will be raised from the existing \$4 million to \$8 million to better nurture university start-ups. Will the Government inform this Committee of the following:

- (1) Please list in tabular form the number of funded companies and the amount of funding approved in the past 3 years by year, university, technology area of the company and number of staff. Are these enterprises still in operation?
- (2) How many funded enterprises are still in operation and how many have ceased operation in the past 3 years? Please provide information on the survival rate of the funded enterprises by year. For the enterprises which have ceased operation, please provide information such as the total amount of funding, the commencement and end dates of funding and the date of operation cessation of the enterprises.
- (3) How many companies have had their results commercialised and launched in the market and what is the number of results commercialised and launched in the market each year in the past 3 years? What are the details of the follow-up investment and international awards received by the funded enterprises?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 159)

Reply:

The requested information is provided below:

- (1) & (2) The Technology Start-up Support Scheme for Universities (TSSSU) was launched in September 2014 to provide funding to the scientific research teams of 6 local universities in starting businesses. In the past 3 years (i.e. 2016-17 to 2018-19), a total of 134 start-ups were funded under TSSSU with a total amount of approved funding at \$72 million. The technology areas mainly cover information and communication technologies, biotechnology, electronics as well

as nanotechnology and materials science, etc. The abovementioned 134 start-ups are still in operation. The teams comprise over 700 professors/students/alumni of the associated universities. We do not have information on the number of employees in these enterprises. Details of the enterprises are set out in Annex A.

- (3) From 2016-17 to 2018-19 (as at 31 December 2018), of the 134 funded start-ups, 80 commercialised their scientific research results and over 110 products or services were rolled out in the market; 95 received follow-up investments; and 34 were presented with international awards. Details are set out in Annex B.

- End -

Technology Start-up Support Scheme for Universities

[Note: N.A. denotes “Not Applicable”]

Serial No.	Universities that submitted recommendations	Name of Technology Start-ups	Technology Areas	2016-17		2017-18		2018-19		Operational Status of the Start-ups (as at 31 December 2018)
				Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	
1	The University of Hong Kong	Brain Investing Limited	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	3	150	In operation
2	The University of Hong Kong	CISC Limited	Information and communication technologies	4	500	5	400	5	260	In operation
3	The University of Hong Kong	Comma Technology Limited	Information and communication technologies	6	100	N.A.	N.A.	N.A.	N.A.	In operation
4	The University of Hong Kong	Conzeb Limited	Biotechnology	3	500	3	500	3	100	In operation
5	The University of Hong Kong	Corvidae Technology Limited	Others (Robotics and software development)	N.A.	N.A.	N.A.	N.A.	4	150	In operation
6	The University of Hong Kong	Datax Limited	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	7	150	In operation
7	The University of Hong Kong	EN Technology Limited	Nanotechnology and materials science	3	500	4	500	4	150	In operation
8	The University of Hong Kong	Enzyme Design Limited	Biotechnology	N.A.	N.A.	2	450	N.A.	N.A.	In operation
9	The University of Hong Kong	Eonzen Technology Company Limited	Biotechnology	6	250	N.A.	N.A.	6	150	In operation
10	The University of Hong Kong	Fano Labs Limited (Formerly known as Accosys Limited)	Information and communication technologies	3	150	12	250	N.A.	N.A.	In operation
11	The University of Hong Kong	Electrode Technology Limited	Nanotechnology and materials science	5	250	N.A.	N.A.	N.A.	N.A.	In operation
12	The University of Hong Kong	Hactis Limited	Information and communication technologies	3	350	3	350	3	150	In operation
13	The University of Hong Kong	High Performance Solution Limited	Energy	N.A.	N.A.	N.A.	N.A.	4	450	In operation
14	The University of Hong Kong	ImmunoDiagnostics Limited	Biotechnology	4	500	4	500	4	465	In operation

Serial No.	Universities that submitted recommendations	Name of Technology Start-ups	Technology Areas	2016-17		2017-18		2018-19		Operational Status of the Start-ups (as at 31 December 2018)
				Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	
15	The University of Hong Kong	Lifespans Limited	Biotechnology	N.A.	N.A.	5	750	5	465	In operation
16	The University of Hong Kong	Living Tissues Company Limited	Biotechnology	4	300	N.A.	N.A.	N.A.	N.A.	In operation
17	The University of Hong Kong	m-Chinese Solution Limited	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	3	150	In operation
18	The University of Hong Kong	Movabar Limited	Information and communication technologies	3	100	N.A.	N.A.	N.A.	N.A.	In operation
19	The University of Hong Kong	Novel Sonics Limited	Biotechnology	N.A.	N.A.	N.A.	N.A.	5	450	In operation
20	The University of Hong Kong	Printact Limited	Electronics	4	100	N.A.	N.A.	N.A.	N.A.	In operation
21	The University of Hong Kong	QuantumFabless Limited	Electronics	N.A.	N.A.	N.A.	N.A.	3	250	In operation
22	The University of Hong Kong	SkinData Limited	Biotechnology	3	400	3	300	3	260	In operation
23	The University of Hong Kong	WEAVATOOLS LIMITED	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	7	250	In operation
24	The Chinese University of Hong Kong	A-Biotech (Hong Kong) Company Limited	Biotechnology	N.A.	N.A.	3	200	4	100	In operation
25	The Chinese University of Hong Kong	Accukit Technology Limited	Electronics	5	400	5	200	5	200	In operation
26	The Chinese University of Hong Kong	ACE VR Limited	Others (Ophthalmic care and vision protection)	3	100	3	300	3	150	In operation
27	The Chinese University of Hong Kong	BINOVIZ Limited	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	2	500	In operation
28	The Chinese University of Hong Kong	Bootstrap HK Limited (Formerly known as RegCourse Limited)	Information and communication technologies	3	400	N.A.	N.A.	N.A.	N.A.	In operation
29	The Chinese University of Hong Kong	BrainNow Medical Technology Limited	Biotechnology	2	100	2	100	N.A.	N.A.	In operation
30	The Chinese University of Hong Kong	C4Cat Entertainment Limited	Information and communication technologies	10	200	N.A.	N.A.	N.A.	N.A.	In operation
31	The Chinese University of Hong Kong	CocoRobo Limited	Information and communication technologies	N.A.	N.A.	7	500	6	300	In operation
32	The Chinese University of Hong Kong	Codex Genetics Limited	Biotechnology	5	200	N.A.	N.A.	N.A.	N.A.	In operation

Serial No.	Universities that submitted recommendations	Name of Technology Start-ups	Technology Areas	2016-17		2017-18		2018-19		Operational Status of the Start-ups (as at 31 December 2018)
				Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	
33	The Chinese University of Hong Kong	CUREhab Limited	Information and communication technologies	3	400	N.A.	N.A.	N.A.	N.A.	In operation
34	The Chinese University of Hong Kong	DecaSense Technology Limited	Electronics	3	400	3	200	5	100	In operation
35	The Chinese University of Hong Kong	DG Care Limited	Electronics	4	300	N.A.	N.A.	N.A.	N.A.	In operation
36	The Chinese University of Hong Kong	Dragon Way Technology Limited	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	3	500	In operation
37	The Chinese University of Hong Kong	Foresight Language and Learning Solutions Limited	Biotechnology	N.A.	N.A.	N.A.	N.A.	2	400	In operation
38	The Chinese University of Hong Kong	Gnetwork Limited	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	3	200	In operation
39	The Chinese University of Hong Kong	Hawkeyes Solutions Limited	Logistics and supply chain management	2	300	3	100	N.A.	N.A.	In operation
40	The Chinese University of Hong Kong	Health View Bioanalytic Limited	Biotechnology	2	100	2	100	N.A.	N.A.	In operation
41	The Chinese University of Hong Kong	Imsight Medical Technology Company Limited	Biotechnology	N.A.	N.A.	3	500	3	100	In operation
42	The Chinese University of Hong Kong	Intelligent Sensing Limited	Electronics	N.A.	N.A.	6	500	6	200	In operation
43	The Chinese University of Hong Kong	Opinion Network Limited	Information and communication technologies	3	300	N.A.	N.A.	N.A.	N.A.	In operation
44	The Chinese University of Hong Kong	Precision Instrument and Optics Limited	Biotechnology	5	100	N.A.	N.A.	N.A.	N.A.	In operation
45	The Chinese University of Hong Kong	Pureform Technology Limited	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	4	250	In operation
46	The Chinese University of Hong Kong	R-Guardian Limited	Others (Internet of things)	N.A.	N.A.	4	200	N.A.	N.A.	In operation
47	The Chinese University of Hong Kong	Smarteye Tech Limited	Advanced manufacturing/ Process development	N.A.	N.A.	6	400	6	100	In operation

Serial No.	Universities that submitted recommendations	Name of Technology Start-ups	Technology Areas	2016-17		2017-18		2018-19		Operational Status of the Start-ups (as at 31 December 2018)
				Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	
48	The Chinese University of Hong Kong	Stapworks Stem Cell Limited	Biotechnology	6	100	2	100	N.A.	N.A.	In operation
49	The Chinese University of Hong Kong	Sucabot MedTech International Limited (Formerly known as CuttingEdge MedTech Limited)	Biotechnology	3	100	N.A.	N.A.	N.A.	N.A.	In operation
50	The Chinese University of Hong Kong	Titanology Limited	Nanotechnology and materials science	N.A.	N.A.	N.A.	N.A.	4	500	In operation
51	The Chinese University of Hong Kong	Unitinno Architectural Technology Development Company Limited	Others (Construction)	7	400	4	200	4	100	In operation
52	The Chinese University of Hong Kong	VisionNav Robotics Limited	Advanced manufacturing/ Process development	7	100	N.A.	N.A.	N.A.	N.A.	In operation
53	The Chinese University of Hong Kong	WIT Enterprises Limited	Information and communication technologies	N.A.	N.A.	7	400	6	300	In operation
54	City University of Hong Kong	6J Biotechnology (Hong Kong) Limited	Biotechnology	N.A.	N.A.	N.A.	N.A.	5	747	In operation
55	City University of Hong Kong	Air Button Technology Limited	Electronics	2	770	2	233	N.A.	N.A.	In operation
56	City University of Hong Kong	B-Route Limited	Others (FinTech)	N.A.	N.A.	4	233	N.A.	N.A.	In operation
57	City University of Hong Kong	Eafe Limited	Advanced manufacturing/ Process development	N.A.	N.A.	N.A.	N.A.	3	140	In operation
58	City University of Hong Kong	Hands Life Science Limited	Biotechnology	11	830	5	850	7	746	In operation
59	City University of Hong Kong	Hong Kong ATIS Healthcare Technology Limited	Others (Artificial intelligence healthcare)	N.A.	N.A.	N.A.	N.A.	15	400	In operation
60	City University of Hong Kong	Initial Innovation Limited	Information and communication technologies	N.A.	N.A.	2	234	2	140	In operation
61	City University of Hong Kong	J&K Brassiere Co., Limited	Others (Artificial intelligence)	N.A.	N.A.	2	525	2	400	In operation

Serial No.	Universities that submitted recommendations	Name of Technology Start-ups	Technology Areas	2016-17		2017-18		2018-19		Operational Status of the Start-ups (as at 31 December 2018)
				Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	
62	City University of Hong Kong	Jacky Instruments Limited	Electronics	5	750	5	700	N.A.	N.A.	In operation
63	City University of Hong Kong	Kung Fu Motion Limited	Information and communication technologies	3	350	N.A.	N.A.	N.A.	N.A.	In operation
64	City University of Hong Kong	MindLayer Limited	Information and communication technologies	3	400	2	525	3	400	In operation
65	City University of Hong Kong	Nautilus Software Technologies Limited	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	4	747	In operation
66	City University of Hong Kong	NoPhish Technology Limited	Information and communication technologies	3	500	N.A.	N.A.	N.A.	N.A.	In operation
67	City University of Hong Kong	Scooter (Technology) Limited	Others (Electric vehicle)	N.A.	N.A.	5	350	5	140	In operation
68	City University of Hong Kong	V&R Laboratory Limited	Information and communication technologies	3	400	3	350	2	140	In operation
69	The Hong Kong University of Science and Technology	3DK Tech Limited	Advanced manufacturing/ Process development	N.A.	N.A.	N.A.	N.A.	3	650	In operation
70	The Hong Kong University of Science and Technology	AIEgen Biotech Co., Limited	Biotechnology	3	500	N.A.	N.A.	N.A.	N.A.	In operation
71	The Hong Kong University of Science and Technology	beNovelty Limited	Information and communication technologies	5	200	N.A.	N.A.	N.A.	N.A.	In operation
72	The Hong Kong University of Science and Technology	Bio-Trick Limited	Biotechnology	N.A.	N.A.	3	500	N.A.	N.A.	In operation
73	The Hong Kong University of Science and Technology	Blue Innowater Company Limited	Environmental protection	N.A.	N.A.	3	650	N.A.	N.A.	In operation
74	The Hong Kong University of Science and Technology	CoilEasy Technologies Limited	Electronics	3	500	3	400	N.A.	N.A.	In operation
75	The Hong Kong University of Science and Technology	Compathnion Technology Limited	Information and communication technologies	5	400	N.A.	N.A.	N.A.	N.A.	In operation
76	The Hong Kong University of Science and Technology	Cytofluidics Biotechnology Limited	Biotechnology	N.A.	N.A.	5	300	N.A.	N.A.	In operation
77	The Hong Kong University of Science and Technology	DelTron Intelligence Technology Limited	Electronics	5	500	N.A.	N.A.	N.A.	N.A.	In operation

Serial No.	Universities that submitted recommendations	Name of Technology Start-ups	Technology Areas	2016-17		2017-18		2018-19		Operational Status of the Start-ups (as at 31 December 2018)
				Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	
78	The Hong Kong University of Science and Technology	DropX Biotech Limited	Biotechnology	N.A.	N.A.	N.A.	N.A.	5	450	In operation
79	The Hong Kong University of Science and Technology	Gense Technologies Limited	Biotechnology	N.A.	N.A.	N.A.	N.A.	6	350	In operation
80	The Hong Kong University of Science and Technology	Incus Company Limited	Electronics	N.A.	N.A.	3	650	N.A.	N.A.	In operation
81	The Hong Kong University of Science and Technology	Infitech Limited	Biotechnology	N.A.	N.A.	N.A.	N.A.	3	400	In operation
82	The Hong Kong University of Science and Technology	INNOWAT Limited	Environmental protection	N.A.	N.A.	N.A.	N.A.	5	450	In operation
83	The Hong Kong University of Science and Technology	I-Square Technology (Hong Kong) Limited	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	3	450	In operation
84	The Hong Kong University of Science and Technology	iSTEM Limited	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	4	200	In operation
85	The Hong Kong University of Science and Technology	Light Innovation Technology Limited	Biotechnology	N.A.	N.A.	4	500	N.A.	N.A.	In operation
86	The Hong Kong University of Science and Technology	Mindvidid Limited	Biotechnology	6	200	N.A.	N.A.	N.A.	N.A.	In operation
87	The Hong Kong University of Science and Technology	MultiMedia Big Data Analytics Limited	Information and communication technologies	4	200	N.A.	N.A.	N.A.	N.A.	In operation
88	The Hong Kong University of Science and Technology	Oxpecker Labs Limited	Electronics	N.A.	N.A.	6	500	N.A.	N.A.	In operation
89	The Hong Kong University of Science and Technology	Pear Limited	Information and communication technologies	4	500	N.A.	N.A.	N.A.	N.A.	In operation
90	The Hong Kong University of Science and Technology	Pteryon Therapeutics Limited (Formerly known as NovaMatrix Limited)	Biotechnology	3	500	N.A.	N.A.	N.A.	N.A.	In operation
91	The Hong Kong University of Science and Technology	P-Sense Limited	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	2	300	In operation
92	The Hong Kong University of Science and Technology	SeaSafe Limited	Biotechnology	4	500	N.A.	N.A.	N.A.	N.A.	In operation

Serial No.	Universities that submitted recommendations	Name of Technology Start-ups	Technology Areas	2016-17		2017-18		2018-19		Operational Status of the Start-ups (as at 31 December 2018)
				Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	
93	The Hong Kong University of Science and Technology	Set Sail Venture Limited	Information and communication technologies	N.A.	N.A.	4	200	N.A.	N.A.	In operation
94	The Hong Kong University of Science and Technology	Sourcebrella Inc Limited	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	4	250	In operation
95	The Hong Kong University of Science and Technology	Sundial Technology Development Limited	Energy	N.A.	N.A.	4	300	N.A.	N.A.	In operation
96	The Hong Kong University of Science and Technology	WEXTECH HK LIMITED	Electronics	N.A.	N.A.	N.A.	N.A.	4	350	In operation
97	The Hong Kong University of Science and Technology	Without Limited	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	4	150	In operation
98	Hong Kong Baptist University	ANA Artwork Material Analysis Company Limited	Testing and certification	4	960	N.A.	N.A.	N.A.	N.A.	In operation
99	Hong Kong Baptist University	Booguu Company Limited	Biotechnology	4	800	3	1,030	N.A.	N.A.	In operation
100	Hong Kong Baptist University	Cathay Photonics Limited	Nanotechnology and materials science	4	1,160	N.A.	N.A.	N.A.	N.A.	In operation
101	Hong Kong Baptist University	Gihon Biotech Limited	Biotechnology	N.A.	N.A.	4	910	4	1,030	In operation
102	Hong Kong Baptist University	Hong Kong Authentication Centre of Dendrobii Officinalis Caulis Limited	Testing and certification	N.A.	N.A.	4	1,030	5	1,030	In operation
103	Hong Kong Baptist University	Mat-A-Cell Limited	Nanotechnology and materials science	N.A.	N.A.	N.A.	N.A.	3	910	In operation
104	Hong Kong Baptist University	New Life Medicine Technology Company Limited	Biotechnology	N.A.	N.A.	4	1,030	3	1,030	In operation
105	Hong Kong Baptist University	OPER Technology Limited	Biotechnology	2	1,080	N.A.	N.A.	N.A.	N.A.	In operation
106	The Hong Kong Polytechnic University	Acquaintance Enterprises Limited	Logistics and supply chain management	N.A.	N.A.	3	700	N.A.	N.A.	In operation
107	The Hong Kong Polytechnic University	AlikeAudience (Hong Kong) Limited	Information and communication technologies	3	500	N.A.	N.A.	3	500	In operation
108	The Hong Kong Polytechnic University	Alps Robot Limited	Others (Robotics)	2	100	N.A.	N.A.	N.A.	N.A.	In operation
109	The Hong Kong Polytechnic	ASA Innovation &	Environmental protection	N.A.	N.A.	2	100	2	500	In operation

Serial No.	Universities that submitted recommendations	Name of Technology Start-ups	Technology Areas	2016-17		2017-18		2018-19		Operational Status of the Start-ups (as at 31 December 2018)
				Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	
	University	Technology Limited								
110	The Hong Kong Polytechnic University	Asiabots Limited	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	4	730	In operation
111	The Hong Kong Polytechnic University	CoDeco Technology Limited (Formerly known as Hocfu Technology Limited)	Information and communication technologies	3	500	3	500	N.A.	N.A.	In operation
112	The Hong Kong Polytechnic University	Degree (Hong Kong) Education Consulting Limited	Information and communication technologies	N.A.	N.A.	N.A.	N.A.	2	710	In operation
113	The Hong Kong Polytechnic University	dEYEy Inno Tech Limited	Information and communication technologies	2	100	N.A.	N.A.	N.A.	N.A.	In operation
114	The Hong Kong Polytechnic University	Easiread Limited	Information and communication technologies	N.A.	N.A.	2	100	N.A.	N.A.	In operation
115	The Hong Kong Polytechnic University	eSight Technology Company Limited	Advanced manufacturing/ Process development	N.A.	N.A.	3	100	N.A.	N.A.	In operation
116	The Hong Kong Polytechnic University	Eternal Billion (Hong Kong) Limited	Biotechnology	N.A.	N.A.	N.A.	N.A.	6	560	In operation
117	The Hong Kong Polytechnic University	Holumino Limited	Information and communication technologies	3	500	N.A.	N.A.	N.A.	N.A.	In operation
118	The Hong Kong Polytechnic University	Innoplay Limited	Electronics	N.A.	N.A.	3	500	N.A.	N.A.	In operation
119	The Hong Kong Polytechnic University	InReader Limited	Information and communication technologies	2	100	N.A.	N.A.	N.A.	N.A.	In operation
120	The Hong Kong Polytechnic University	JabJabX Limited	Others (Sports and wearable technologies)	N.A.	N.A.	3	100	N.A.	N.A.	In operation
121	The Hong Kong Polytechnic University	Jobdoh Limited	Information and communication technologies	2	500	N.A.	N.A.	N.A.	N.A.	In operation
122	The Hong Kong Polytechnic University	Kubot Technology Limited	Advanced manufacturing/ Process development	N.A.	N.A.	2	700	N.A.	N.A.	In operation
123	The Hong Kong Polytechnic University	Look Incorporation Limited	Information and communication technologies	3	100	N.A.	N.A.	N.A.	N.A.	In operation

Serial No.	Universities that submitted recommendations	Name of Technology Start-ups	Technology Areas	2016-17		2017-18		2018-19		Operational Status of the Start-ups (as at 31 December 2018)
				Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	Number of Team Members	Amount of Funding Approved (\$'000)	
124	The Hong Kong Polytechnic University	Marketeer Limited	Information and communication technologies	N.A.	N.A.	2	100	N.A.	N.A.	In operation
125	The Hong Kong Polytechnic University	MCTIPSS Limited	Information and communication technologies	3	100	N.A.	N.A.	N.A.	N.A.	In operation
126	The Hong Kong Polytechnic University	Microenergy Development Limited	Advanced manufacturing/ Process development	3	100	N.A.	N.A.	N.A.	N.A.	In operation
127	The Hong Kong Polytechnic University	MineCos Limited	Information and communication technologies	2	100	N.A.	N.A.	N.A.	N.A.	In operation
128	The Hong Kong Polytechnic University	Nearko Limited	Information and communication technologies	6	100	N.A.	N.A.	N.A.	N.A.	In operation
129	The Hong Kong Polytechnic University	Next WiFi Technologies Limited	Information and communication technologies	3	500	N.A.	N.A.	3	500	In operation
130	The Hong Kong Polytechnic University	Pokeguide Limited	Information and communication technologies	N.A.	N.A.	3	500	N.A.	N.A.	In operation
131	The Hong Kong Polytechnic University	Techlabs Holdings Limited	Information and communication technologies	4	500	N.A.	N.A.	N.A.	N.A.	In operation
132	The Hong Kong Polytechnic University	Ultimate Sports Hub Limited	Information and communication technologies	3	100	N.A.	N.A.	N.A.	N.A.	In operation
133	The Hong Kong Polytechnic University	Vision Science and Technology Company Limited	Others (Visual technology)	3	100	3	500	3	500	In operation
134	The Hong Kong Polytechnic University	Vox Technology Limited	Information and communication technologies	N.A.	N.A.	2	100	N.A.	N.A.	In operation
Total				257	24,000	212	24,000	264	24,000	
Total Amount of Funding Approved in the 3 Financial Years (\$'000)				72,000						

- End -

Technology Start-up Support Scheme for Universities

Achievements of Start-ups	2016-17	2017-18	2018-19 (as at 31 December 2018)	Total	Details
No. of start-ups that have commercialised the research and development results and rolled out their products or services in the market	36	33	30	80	From 2016-17 to 2018-19, over 110 products or services were rolled out in the market by 80 start-ups, 19 of which had their products or services rolled out in the market in more than 1 year.
No. of start-ups that have received follow-up investments (Total amount of funding raised)	29 (46.89 million)	40 (116.2 million)	38 (45.5 million)	95 (209 million)	From 2016-17 to 2018-19, 95 start-ups received follow-up investments, 12 of which received follow-up investments in more than 1 year. Major sources of these capitals were funding provided by the Government and the public sector, private injection by team members and company shareholders as well as other private investments (such as private equity funds, venture capital funds, angel investors, private investments), etc.
No. of start-ups presented with international awards	17	11	16	34	From 2016-17 to 2018-19, 34 start-ups were presented with international awards, 10 of which were presented with international awards in more than 1 year. The international awards received include a Gold Medal (Medicine Category) at the International Exhibition of Inventions of Geneva in 2017, a Grand Prize at the International Exhibition of Inventions of Geneva in 2018, and the champion at the regional chapter of the deep-tech competition, Hello Tomorrow Challenge, in 2018.

- End -

CONTROLLING OFFICER'S REPLY

ITB129

(Question Serial No. 3719)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (2) Promotion of Technological Entrepreneurship

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Enterprise Support Scheme (ESS) provides funding support for research and development activities of private sector companies, irrespective of size. In this connection, will the Government advise this Committee on:

- (1) the average time needed for the Government to handle applications not submitted under the designated track in the implementation of the ESS over the past 2 years based on the following processes:
 - (i) from receipt of application to submission of revised application by an enterprise;
 - (ii) from submission of revised application by the enterprise to the applicant being invited for interview;
 - (iii) from issue of interview result notification to signing of funding agreement;

the average number of working days needed from submission of revised application by the enterprise to signing of funding agreement and disbursement of funds; the average number of revisions made to an application by the enterprise before issue of interview result notification and signing of funding agreement; the performance indicators for handling the applications;

- (2) the number of applications received, the percentage of the number of applications approved in the number of applications received, the total amount of funding approved, the average amount of funding approved for each company, and the average time required for each application in the past year; and
- (3) whether the Government will review the effectiveness of the various enhancement measures introduced last year, including updating the application form and the guide to filling in the application form so as to facilitate applicant enterprises to submit the required information and documents, as well as appointing more assessment panel members so that the number of assessment meetings could be increased, thereby expediting the vetting of applications, etc.?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 160)

Reply:

The requested information is provided below:

- (1) A “designated track” has been introduced under the Enterprise Support Scheme (ESS) for applicant enterprises having less than 100 employees and seeking funding support of no more than \$2.8 million per project, with a view to handling applications from small and medium enterprises more effectively. Other applications are processed under the “non-designated track”. Applications submitted under both tracks are vetted by the ESS assessment panel in accordance with the same assessment criteria. An applicant enterprise could normally be notified of the vetting result in around 2 months upon submission of all the required information and documents.

Once the funded enterprise has signed the project agreement and submitted the proof of expenditure of using the entire amount of the first instalment of contribution, the Innovation and Technology Commission (ITC) will disburse the first matching fund payment within 30 days. The schedule for signing the funding agreement and disbursing the initial funding mainly depends on the progress on the submission of the required documents and the project’s research and development work. We do not have the statistics on the processing time and number of correspondences at each stage of the vetting process.

- (2) In 2018-19 (as at end-February 2019), out of the 90 applications considered by the assessment panel, 43 were supported (including 4 applications being withdrawn by the applicants after the support had been granted), representing a success rate of 48%. It involved a total funding of about \$137 million. The average amount of funding for each approved application was about \$3.5 million.
- (3) After the implementation of various enhancement measures, the average time required for processing an application was shortened from around 3 months in 2017 to around 2 months in 2018. ITC will continue to monitor the implementation of the ESS, conduct review from time to time, and introduce enhancement measures as and when appropriate.

- End -

CONTROLLING OFFICER'S REPLY

ITB130

(Question Serial No. 3721)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (2) Promotion of Technological Entrepreneurship

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the Data Studio set up by the Hong Kong Science and Technology Parks Corporation, please inform this Committee of the following:

- (1) Please provide a list of the existing data providers and those under negotiation, and list in tabular form the estimated numbers of partnering data providers and datasets to be increased within this year?
- (2) What was the number of dataset suggestions received, the number and details of suggested datasets that were successfully published this year?
- (3) How many data publishers opened an account and what was the average number of datasets published this year?
- (4) Is there any assessment on the utilisation of the Studio and the website? What are the details?
- (5) What were the expenditure on promoting the Data Studio and the details of the publicity activities in 2018-19? Please list out the activities and the number of participants. What are the estimated expenditure on promoting the Data Studio and the planned publicity activities in the coming year?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 161)

Reply:

A consolidated reply to various parts of the question is as follows:

The Data Studio officially commenced operation in February 2017. At present, there are a total of 57 data providers, which are mainly data providers from industries and companies in the Hong Kong Science Park (HKSP), each publishing an average of 3 datasets. In 2018-19, the suggested datasets successfully added were mainly data related to monetary affairs, finance and banking, followed by HKSP's pedestrian flow, environment and traffic flow data, etc. For details on the data providers and datasets, please refer to the portal of the Data Studio (<http://datastudio.hkstp.org/>). The Hong Kong Science and Technology Parks Corporation (HKSTPC) hopes to attract more partnering data providers in the coming

year with an additional publication of 5 to 10 new datasets.

The average monthly number of visitors to the Data Studio is about 500 since its launch, and the average monthly number of web page visits is about 2 500 in terms of hit rate.

The HKSTPC plans to organise more data programming events and training courses on big data technology in the coming year, so as to make good use of the data from the Data Studio and support smart city development. The expenditure involved in promoting the Data Studio is covered by the HKSTPC. No subsidy is provided by the Government.

- End -

CONTROLLING OFFICER'S REPLY

ITB131

(Question Serial No. 3722)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Research and Development (R&D) Cash Rebate Scheme (CRS) encourages private enterprises, small and medium enterprises in particular, to conduct R&D works. The Government has extended the Public Sector Trial Scheme (PSTS) to cover incubatees of the Cyberport and the Hong Kong Science Park (HKSP) to conduct trials of their R&D results in the public sector, with a view to facilitating commercialisation of R&D results. The Innovation and Technology Commission will continue to administer the schemes. In this connection, will the Government advise on:

- (1) the number of applications received, the number of applications approved and its percentage in the total number of applications, and the average amount of cash rebate under the CRS in the past 3 years;
- (2) the local public research institutions that conducted Innovation and Technology Fund projects and partnership projects respectively with cash rebate applications approved (please set out the numbers in tabular form), and the funding amount and number of projects in the past 3 years;
- (3) the increase in the number of applications and the number of applications approved after the extension of the CRS, as well as the manpower and resources involved in handling such duties;
- (4) the number of applications received, the number of applications approved and its percentage in the total number of applications under the PSTS, the number of start-ups conducting trial projects and the trial organisations in the past 3 years (please set out the numbers in tabular form);
- (5) the number of projects with their products successfully commercialised and introduced to the market on completion of the PSTS, as well as its percentage in the total number of PSTS projects in the past 3 years; and
- (6) the increase in the number of applications and the number of applications approved after the extension of the PSTS to cover incubatees of the HKSP and Cyberport, as well as the manpower and resources involved in handling such duties?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 163)

Reply:

The requested information is provided below:

- (1) The Research and Development (R&D) Cash Rebate Scheme (CRS) provides cash rebate to 2 types of applied R&D projects, namely R&D projects funded under the Innovation and Technology Fund (ITF) and partnership projects. In the past 3 years (i.e. 2016, 2017 and 2018), the total number of projects involving cash rebate applications was 230, 251 and 265 respectively and all eligible applications were approved. The average amount of cash rebate for each project was about \$280,000, \$380,000 and \$440,000 respectively.
- (2) For the cash rebate applications involving ITF projects and partnership projects approved in the past 3 years, a breakdown on the number of projects involving designated local public research institutions (i.e. excluding R&D projects conducted by companies under the Small Entrepreneur Research Assistance Programme and the Enterprise Support Scheme) is tabulated as follows:

	No. of ITF projects (cash rebate (\$ million))			No. of partnership projects (cash rebate (\$ million))		
	2016	2017	2018	2016	2017	2018
Designated local public research institutions						
Local universities	55 (14.80)	44 (15.09)	43 (16.08)	12 (3.20)	27 (8.17)	21 (10.53)
Automotive Parts and Accessory Systems R&D Centre	7 (3.02)	8 (3.81)	5 (5.82)	0 (0)	0 (0)	0 (0)
Logistics and Supply Chain MultiTech R&D Centre	9 (2.43)	12 (2.85)	13 (5.28)	1 (0.01)	0 (0)	1 (0.26)
Hong Kong Research Institute of Textiles and Apparel	7 (1.15)	15 (4.29)	11 (5.65)	0 (0)	1 (0.11)	0 (0)
Nano and Advanced Materials Institute	25 (9.92)	48 (11.91)	54 (14.05)	12 (1.84)	10 (4.55)	10 (3.46)
Hong Kong Applied Science and Technology Research Institute	11 (4.57)	14 (9.06)	22 (16.05)	25 (6.00)	12 (4.78)	21 (8.69)
Others (including Hong Kong Productivity Council, Vocational Training Council and Hong Kong Institute of Biotechnology)	3 (0.34)	5 (2.34)	8 (2.49)	37 (8.63)	36 (17.59)	40 (20.35)
Total:	117 (36.23)	146 (49.35)	156 (65.42)	87 (19.68)	86 (35.20)	93 (43.29)

- (3) Since the level of cash rebate under the CRS had been increased from 30% to 40% in February 2016, the number of projects with cash rebate applications approved increased from 219 in 2015 to 265 in 2018, representing a rise of 21%. As for partnership projects, applicant companies are required to pre-register with the Innovation and Technology Commission (ITC) prior to commencement of the R&D projects to indicate their intention of application. The number of pre-registrations of new partnership projects in 2018 was 145, which was higher than 95 in 2015 by about 53%. We expect that the number of applications and pre-registrations will remain steady in 2019. The relevant work will be absorbed by ITC's existing manpower and resources.
- (4) The Public Sector Trial Scheme (PSTS) provides funding to R&D projects under the ITF as well as incubatees and graduate tenants of the Hong Kong Science and Technology Parks Corporation (HKSTPC) and the Cyberport for producing prototypes/samples from their R&D outcomes or products/services and conducting trials in the public sector. In the past 3 years, the number of applications, the number of projects approved and the trial organisations under the PSTS are detailed in the table below:

	PSTS projects		Types of trial organisations
	No. of applications	No. of projects approved (percentage in total no. of applications)	
2016	29	27 (93%)	<ul style="list-style-type: none"> - Government departments (e.g. Hong Kong Customs and Excise Department, Highways Department, Hong Kong Police Force, Water Supplies Department, Drainage Services Department, Electrical and Mechanical Services Department) - Hospitals (e.g. Hospital Authority, Hong Kong Sanatorium & Hospital) - Elderly centres (e.g. Tung Wah Group of Hospitals) - Non-government organisations and public bodies (e.g. Hong Kong Housing Society, St. James' Settlement, Hong Kong Sports Institute, Hong Chi Association) - Universities (e.g. The University of Hong Kong, The Chinese University of Hong Kong) - Industry organisations/chambers of commerce (e.g. Hong Kong Intimate Apparel Industries' Association, Hong Kong Sea Transport and Logistics Association)
2017	32	31 (97%)	
2018	44	27 (61%)*	
Total	105	85 (81%)	

(* number of projects approved as at end-January 2019)

- (5) Since the inception of the PSTS in 2011 up to end-January 2019, 202 projects were supported with funding of over \$334 million, benefitting 280 organisations of different categories. Around 120 of these projects were completed. Among them, the R&D results of over 90 projects reached the stages of realisation and commercialisation, including transferring the relevant technology to the industry through licensing agreements or contract research, or continued application by the relevant public sector organisations.
- (6) As at end-2018, a total of 15 applications from incubatees and graduate tenants of HKSTPC and Cyberport were received under the PSTS, and 14 were supported. The relevant work is absorbed by ITC's existing manpower and resources.

- End -

CONTROLLING OFFICER'S REPLY

ITB132

(Question Serial No. 3723)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned on page 428 of the Estimates of Expenditure that the Government will continue to support the activities of the research and development (R&D) Centres with emphasis on technology transfer of funded projects. Regarding the operation of the R&D Centres funded by the Government, will the Government inform this Committee of:

- (1) the annual operating expenditure, the number and total expenditure of R&D projects of the 5 R&D Centres respectively in the past 3 years;
- (2) the amount of industry sponsorship and contract service fees of the R&D Centres respectively in the past 3 years;
- (3) the number of projects commercialised and licences granted by the 5 R&D Centres respectively in the past 3 years; and
- (4) the specific work details and measures to enhance technology transfer of funded projects?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 164)

Reply:

The requested information is provided below:

- (1) Among the 5 Research and Development (R&D) Centres, the operating expenditure of the Nano and Advanced Materials Institute (NAMI), Logistics and Supply Chain MultiTech R&D Centre (formerly known as R&D Centre for Logistics and Supply Chain Management Enabling Technologies) (LSCM), Hong Kong Research Institute of Textiles and Apparel (HKRITA) and Automotive Parts and Accessory Systems R&D Centre (APAS) is met by the funding under the Innovation and Technology Fund (ITF) approved by the Finance Committee of the Legislative Council, while the operating expenditure of the Hong Kong Applied Science and Technology Research Institute (ASTRI) is funded by the Government's annual recurrent subvention to ASTRI (which is set out under Programme (6) "Subvention: Hong Kong Productivity

Council, Hong Kong Applied Science and Technology Research Institute Company Limited”).

The operating expenditure of the 5 R&D Centres in the latest 3 financial years (i.e. 2016-17 to 2018-19) is tabulated below:

Operating expenditure (\$ million)			
	2016-17 (Actual expenditure)	2017-18 (Actual expenditure)	2018-19 (Revised estimate)
ASTRI	140.0	143.6	150.2
NAMI	55.3	66.0	74.4
LSCM	29.9	33.0	41.5
HKRITA	33.3	33.0	38.1
APAS	16.8	18.2	16.3
Total:	275.3	293.8	320.5

The numbers of new projects and on-going projects of the 5 R&D Centres in the past 3 financial years (i.e. 2015-16 to 2017-18) are tabulated below:

	Number of R&D projects					
	2015-16		2016-17		2017-18	
	New projects	On-going projects (as at end-March 2016)	New projects	On-going projects (as at end-March 2017)	New projects	On-going projects (as at end-March 2018)
ASTRI	42	69	38	62	45	63
NAMI	45	82	45	86	41	78
LSCM	16	35	18	37	21	38
HKRITA	21	62	18	59	21	52
APAS	13	36	16	44	13	47
Total:	137	284	135	288	141	278

The R&D expenditure of the 5 R&D Centres is supported by the ITF on individual R&D project basis. The amount of funding for R&D expenditure of the 5 R&D Centres in the past 3 financial years (i.e. 2015-16 to 2017-18) is tabulated below:

	Amount of funding for R&D expenditure (\$ million)		
	2015-16 (Actual expenditure)	2016-17 (Actual expenditure)	2017-18 (Actual expenditure)
ASTRI	198.7	239.9	273.6
NAMI	71.2	70.7	108.5
LSCM	79.8	65.4	107.6
HKRITA	44.8	39.0	70.1
APAS	36.0	28.4	35.8
Total:	430.5	443.4	595.6

- (2) The amount of sponsorship for new projects and the contract service income of the 5 R&D Centres in the past 3 financial years (i.e. 2015-16 to 2017-18) are tabulated below:

	Amount of sponsorship and contract service income (\$ million)					
	2015-16		2016-17		2017-18	
	Amount of sponsorship for new projects	Contract service income	Amount of sponsorship for new projects	Contract service income	Amount of sponsorship for new projects	Contract service income
ASTRI	63.8	16.69	61.1	24.67	89.7	20.6
NAMI	30.7	5.07	47.7	13.56	41.8	12.4
LSCM	10.2	0.03	13.8	0.60	10.6	4.0
HKRITA	20.6	0.09	18.1	0.25	26.5	0.1
APAS	28.4	0.61	8.2	1.55	25.5	0.7
Total:	153.7	22.49	148.9	40.63	194.1	37.8

- (3) The 5 R&D Centres signed 55, 68 and 64 licensing agreements in 2015-16, 2016-17 and 2017-18 respectively.
- (4) ITF has been attaching importance to technology transfer of funded projects. Each of the R&D Centres will undertake industry-driven and market relevant R&D, and subsequently transfer the technology to the industry through contract research or licensing arrangement. We have adopted the “level of income received from the industry” as one of the indicators to assess the R&D Centres’ performance from 2017-18 onwards. The indicator mainly covers sponsorship from the industry for their R&D, income arising from licensing/royalty, contract services, and other income, etc. The R&D Centres all reached the target level of industry income of 30% in 2017-18.

To encourage commercialisation of R&D results of ITF-funded projects and technology transfer activities, from 2017-18 onwards, the R&D Centres can retain the income generated from those projects (e.g. income generated from the commercialisation of project outcomes) for use in strategic activities such as technology and market analyses, infrastructure building, staff development or experimental projects, etc.

- End -

CONTROLLING OFFICER'S REPLY**ITB133****(Question Serial No. 3724)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (2) Promotion of Technological Entrepreneurship

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the Hong Kong Science Park (HKSP)'s efforts in nurturing technology enterprises and promoting applied innovation and technology (I&T), please advise on the following:

(1) The 3 incubation programmes of HKSP (Incu-App, Incu-Tech and Incu-Bio)

	2017-18	2017-18	2018-19
Operating expenditure of the programmes (HK\$ million)			
Number of companies applied for admission to the programmes			
Average time required for processing an application (working days)			
Percentage of successful applications			
Number of companies admitted to the programmes (incubatees)			
Cumulative total number of incubatees			
Average amount of financial assistance received by each incubatee (HK\$ million)			
Number of patents registered or patent applications filed by the incubatees			
Average number of full-time employees of each incubatee			
Average salary of a full-time employee of an incubatee			
Number of incubatees rated as "failing to meet the business targets" in the regular milestone assessment			
Number of incubatees previously participated in			

	2017-18	2017-18	2018-19
the programmes but has ceased operation			
Percentage of incubatees still in business in Hong Kong 3 years after graduation in the total number of incubatees			
Number of cases in which the incubatees' projects received follow-up fund injections			
Average amount of investment obtained by those projects receiving follow-up fund injections (HK\$ million)			
Percentage of incubatees receiving follow-up fund injections in the total number of incubatees			
Source of investment funds received by the projects of incubatees (e.g. angel, venture capital, I&T venture funds)			
Number of graduated incubatees which were listed or acquired, or entered into joint ventures, or had spin-off projects			

(2) Leading Enterprises Acceleration Programme

	2017-18	2017-18	2018-19
Operating expenditure of this programme (HK\$ million)			
Number of companies applied for admission to the programme			
Number of participating enterprises whose business nature was "web/mobile applications"			
Amount of financial assistance			
Number of participating enterprises which were "incubatees of the Hong Kong Science and Technology Parks Corporation (HKSTPC)'s incubation programmes"			
Number of participating enterprises which were "graduates of the incubation programmes"			
Number of participating enterprises which were "current partner enterprises in HKSP"			
Number of participating enterprises which were not accommodated in HKSTPC			
Percentage of participating enterprises still in business in Hong Kong 3 years after graduation in the total number of companies			
Number of cases in which the participating enterprises' projects received follow-up fund injections			
Average amount of investment obtained by those projects receiving follow-up fund injections (HK\$ million)			

	2017-18	2017-18	2018-19
Percentage of participating enterprises receiving follow-up fund injections in the total number of companies			
Source of investment funds received by the participating enterprises (e.g. angel, venture capital, I&T venture funds)			
Number of initial public offerings launched by participating enterprises			

(3) What was the number of collaborations between technology enterprises and leading enterprises/blue-chip companies in Hong Kong fostered by the “Technologies from Science Park” programme last year? (Please set out by type of technological solution). Will additional resources be allocated to encourage more local enterprises to adopt technological solutions from local technology start-ups in 2019-20? What are the details, expenditure and targets?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 165)

Reply:

The requested information is provided below:

(1) The statistics of the 3 incubation programmes (including Incu-App, Incu-Tech and Incu-Bio) of the Hong Kong Science and Technology Parks Corporation (HKSTPC) are tabulated as follows:

	2016-17	2017-18	2018-19 (as at February 2019)
Operating expenditure of the programmes (HK\$ million) (Note 1)	7.26	9.75	12.33
Number of companies applied for admission to the programmes	207	234	314
Average time required for processing an application (working days)	HKSTPC undertakes to process an application within 52 working days, which has all along been achieved		
Percentage of successful applications	59%	41%	29.6%
Number of companies (incubatees) currently participating in the programmes	267	263	254

	2016-17	2017-18	2018-19 (as at February 2019)
Cumulative total number of all incubatees previously participated in the programmes	938	1 026	1 100
Annual total amount of financial assistance received by the incubatees (HK\$ million) (Note 1)	10.70	21.75	20.20
Number of patents registered or patent applications filed by the incubatees	57	84	41
Average number of full-time employees of each incubatee	3.4	3.9	2.9
Average salary of a full-time employee of an incubatee (Note 2)	-	-	-
Number of incubatees rated as “failing to meet the business targets” in the regular milestone assessment	1	4	7
Cumulative number of incubatees previously participated in the programmes but has ceased operation (Note 3)	117	133	137
Incubatees still in business in Hong Kong 3 years after graduation as a percentage of total number of incubatees (Note 4)	74%	75%	78%
Number of cases in which the incubatees’ projects received follow-up fund injections (Notes 1, 5)	22	23	21
Average amount of investment obtained by those projects receiving follow-up fund injections (HK\$ million) (Notes 1, 5)	15.09	97.78	20.66

	2016-17	2017-18	2018-19 (as at February 2019)
Incubatees receiving follow-up fund injections as a percentage of total number of incubatees (Notes 1, 5, 6)	22.5%	22.3%	22.2%
Source of investment funds received by the projects of incubatees (e.g. angel, venture capital funds) (Note 1)	13 from angel investors; 9 from venture capital	12 from angel investors; 11 from venture capital	8 from angel investors; 13 from venture capital
Number of graduated incubatees which were listed or acquired, or entered into joint ventures, or had spin-off projects (Note 1)	5 acquisition projects	2 acquisition projects	Nil

(2) The statistics of the Leading Enterprises Acceleration Programme (LEAP) are as follows:

	2016-17	2017-18	2018-19 (as at February 2019)
Operating expenditure of this programme (HK\$ million) (Note 1)	7.26	9.75	12.33
Number of companies applied for admission to the programme	30	44	19 (Note 7)
Number of participating enterprises whose business nature was “web/mobile applications”	6	7	4
Amount of financial assistance (Note 1)	10.70	21.75	20.20
Number of participating enterprises which were “incubatees of HKSTPC’s incubation programmes”	9	11	9
Number of participating enterprises which were “graduates of the incubation	7	11	7

	2016-17	2017-18	2018-19 (as at February 2019)
programmes”			
Number of participating enterprises which were “current partner enterprises in the Hong Kong Science Park (HKSP)” (Note 8)	2	6	2
Number of participating enterprises which were not accommodated in HKSTPC	At present, only companies previously participated in the incubation programmes or current partner enterprises in HKSP may participate in the LEAP		
Participating enterprises still in business in Hong Kong 3 years after graduation as a percentage of total number of companies	The first batch of companies graduated in 2016, and thus relevant statistics are not available		As at February 2019, 1 enterprise has graduated for 3 years. It is still in business in Hong Kong
Number of cases in which the participating enterprises’ projects received follow-up fund injections (Notes 1, 5)	22	23	21
Average amount of investment obtained by those projects receiving follow-up fund injections (HK\$ million) (Notes 1, 5)	15.09	97.78	20.66
Participating enterprises receiving follow-up fund injections as a percentage of total number of companies (Notes 1, 5, 6)	22.5%	22.3%	22.2%
Source of investment funds received by the participating enterprises (e.g. angel, venture capital funds) (Note 1)	13 from angel investors; 9 from venture capital	12 from angel investors; 11 from venture capital	8 from angel investors; 13 from venture capital
Number of initial public offerings launched by participating enterprises (Note 1)	5 acquisition projects	2 acquisition projects	Nil

- Note 1: The figure refers to the total under the incubation programmes and the LEAP. As both incubation programmes and the LEAP mainly target at incubatees, part of the services and resources are shared, and there is no breakdown of the two items.
- Note 2: Relevant statistics are not available.
- Note 3: HKSTPC only tracks the operation of incubatees that have successfully graduated. Therefore, the figures only include the cumulative number of companies having successfully graduated from the programmes. Companies which have been merged/acquired are considered as having ceased operation.
- Note 4: The figure represents the cumulative percentage based on all the graduates, irrespective of their duration of operation. Companies which have been merged/acquired are considered as having ceased operation.
- Note 5: Based on investment cases involving more than HK\$400,000 recorded by HKSTPC, including graduated incubatees.
- Note 6: The figure refers to the ratio of the cumulative number of investment cases to the cumulative total of incubatees at that time.
- Note 7: In general, two rounds of application will be open under the LEAP annually. As HKSTPC will open the second round of application for 2018-19 in March 2019, the number of applications received as at February 2019 is lower than those in the past 2 years.
- Note 8: Excluding participating enterprises which were “graduates of the incubation programmes”.

- (3) Since the launch of the “Technologies from Science Park” programme up to March 2019, HKSTPC collaborated with over 60 leading local enterprises/public organisations, such as the Mass Transit Railway Corporation Limited, Maxim’s Group and the Hongkong and Shanghai Banking Corporation Limited, etc., to help them identify technological applications which can enhance economic efficiency. Through the programme, HKSTPC has arranged these enterprises/organisations to meet with 330 technology companies from HKSP, fostering 66 collaborative projects for application in such industries as retail, public transport, energy and telecommunications network.

In 2019-20, HKSTPC will devote more resources to promote the programme. Discussions with organisations in the banking, retail, entertainment and educational sectors on collaboration are underway, with a view to facilitating market development for companies from HKSP. The expenditure for the programme is met by HKSTPC. No additional resources is provided by the Government.

- End -

CONTROLLING OFFICER'S REPLY**ITB134****(Question Serial No. 3725)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the spending pattern of the Innovation and Technology Fund (ITF), will the Government advise on:

- (1) the cash flow of the ITF in the past 3 years and its cash flow projection for the coming 5 years;
- (2) the projected percentage increase in the funding provision for the coming 5 years, the major reasons for the anticipated continued increase in the demand for funding, and whether a new round of focused research and development themes has been drawn up for the injection this time; and
- (3) the investment returns of the past funding, and whether targets of estimated investment returns have been set for the injection this time?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 166)

Reply:

The requested information is provided below:

- (1) and (2) The cash flow of expenditure of the Innovation and Technology Fund (ITF) in the past 3 years and for the next 5 years is tabulated as follows:

	2016-17 Actual	2017-18 Actual	2018-19 Revised estimate	2019-20 Estimate	2020-21 Forecast	2021-22 Forecast	2022-23 Forecast	2023-24 Forecast
\$ million	1,258	1,483 (+18%)	1,984 (+34%)	3,968 (+100%)	4,664 (+18%)	4,376 (-6%)	4,345 (-1%)	4,421 (+2%)

The overall expenditure of the ITF is expected to increase significantly in 2019-20 and 2020-21, which is mainly to cater for the expenditures on new initiatives, including the establishment of 2 research clusters, the Innovation and Technology Venture Fund (ITVF), the Re-industrialisation Funding Scheme and

the Mainland-Hong Kong Joint Funding Scheme, etc. The decrease in the overall expenditure of the ITF in 2021-22 and 2022-23 is mainly due to the estimation that the \$2 billion provision for the ITVF will have already been invested in various projects by that time.

Except for the Midstream Research Programme for Universities which has adopted the theme of “Elderly Health and Care”, no focused research and development theme has been drawn up for other funding programmes under the ITF.

- (3) ITF’s investment income mainly comes from the investment income arising from the placement with the Exchange Fund. The annual investment return rates were 2.8%, 4.6% and 2.9% in 2017, 2018 and 2019 respectively, and are estimated to range between 2.8% and 4.6% from 2020 to 2023.

- End -

CONTROLLING OFFICER'S REPLY

ITB135

(Question Serial No. 0288)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (4) Infrastructural Support

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Paragraph 85 of the Budget Speech mentions the immense potential Hong Kong has in pursuing the commercialisation of research and development results and technology transfer in areas such as advanced materials, nanotechnology, microelectronics, etc. which can boost the development of industries and re-industrialisation. Will the Government advise this Committee on the specific and targeted measures for facilitating the significant development of the above areas as well as the manpower and estimated expenditure involved in the coming 3 years?

Asked by: Hon NG Wing-ka, Jimmy (LegCo internal reference no.: 60)

Reply:

The Government has been actively promoting re-industrialisation in recent years to develop advanced manufacturing industries that are based on new technologies and smart production, so as to identify new growth points for Hong Kong's economic development. We will continue to support the development of re-industrialisation in terms of infrastructure, funding, technology and talents.

In terms of infrastructure, the Hong Kong Science and Technology Parks Corporation (HKSTPC) is developing the Data Technology Hub and Advanced Manufacturing Centre in the Tseung Kwan O Industrial Estate (IE), which are expected to be completed in 2020 and 2022 respectively, so as to provide infrastructural facilities for advanced manufacturing industry.

In terms of funding, the Government will continue to, through the Innovation and Technology Fund, provide funding to support local research and development (R&D) work and finance projects that can contribute to technological upgrading of industries and promotion of innovation, so as to promote re-industrialisation. The relevant funding programmes include the Innovation and Technology Support Programme, the Partnership Research Programme, and the Enterprise Support Scheme etc. In addition, the HKSTPC

will allocate part of the resources from the Government's \$10 billion funding to offer incentives for advanced manufacturers to set up operations in the IEs. The HKSTPC is formulating the relevant details, and will decide on the form and amount of support having regard to the size and needs of the enterprises.

In terms of technology, the Hong Kong Productivity Council (HKPC) has been dedicating efforts to promoting re-industrialisation to facilitate enterprises to move towards high value-added production and gradually upgrade towards Industry 4.0. The HKPC has jointly established the Invention Centre with the Fraunhofer Institute for Production Technology, Germany (Fraunhofer IPT), implemented the "Industry 4.0 Upgrade and Recognition Programme", and established the Inno Space and Smart Industry One. In addition to continuing the above work, the HKPC will also implement the following initiatives in the coming 3 years:

- Setting up a HKPC Institute of Innovation & Technology (Shenzhen) in Shenzhen to provide Hong Kong enterprises in the Bay Area with solutions and services relating to intelligent manufacturing, artificial intelligence, big data, environmental technology, etc.;
- Conducting research and development on advanced material manufacturing and processing technologies, such as additive manufacturing materials, degradable polymer, smart fabric and recyclable plastic, etc.;
- Organising Hong Kong Industry Network Clusters consultation sessions to conduct in-depth discussions with major chambers of commerce from different sectors, industry support organisations, government representatives and enterprises in Hong Kong on the challenges faced by and the needs of the industry in response to technological innovation, and to introduce the latest technological solutions, including the core technologies related to "Industry 4.0", etc.; and
- Organising different types of training programmes, focused seminars and research results showcases to introduce new technologies and showcase the latest scientific research results, so as to encourage the industry to grasp the opportunities brought about by technological innovation.

In terms of nurturing talents, we will continue to implement the Reindustrialisation and Technology Training Programme, which was launched in August 2018, to subsidise local companies on a 2:1 matching basis to train their staff in technologies, especially those related to "Industry 4.0".

To expedite the development of re-industrialisation, it was announced in the 2018 Policy Address that an additional allocation of \$2 billion would be provided to the HKSTPC to identify suitable land in IEs for developing manufacturing facilities required by dedicated manufacturing industry, so as to facilitate more manufacturers to set up operations in Hong Kong. We will also launch a \$2 billion Re-industrialisation Funding Scheme (the Scheme) to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong. We are formulating the operational details of the Scheme, including the eligibility criteria, the funding scope, mode and amount, etc., in consultation with the industries. We plan to consult the Legislative Council (LegCo) Panel on Commerce and Industry on these 2 new initiatives in May 2019 before seeking funding approval from the LegCo Finance Committee, with a view to taking them forward in the second half of this year.

In addition, the 5 R&D Centres established by the Government (i.e. the Hong Kong Applied Science and Technology Research Institute, the Logistics and Supply Chain MultiTech R&D Centre, the Nano and Advanced Materials Institute, the Hong Kong Research Institute of Textiles and Apparel, and the Automotive Parts and Accessory Systems R&D Centre) would also continue to engage in R&D related to re-industrialisation and work closely with the industry to drive the commercialisation of R&D outcomes and assist the industry to capture and capitalise on business opportunities.

Promoting re-industrialisation is a regular duty of the Innovation and Technology Bureau and the Innovation and Technology Commission. No breakdown of manpower and expenditure is available.

- End -

CONTROLLING OFFICER'S REPLY

ITB136

(Question Serial No. 0388)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

How will the Government allocate and utilise the \$2 billion to be injected for launching a Re-industrialisation Funding Scheme to subsidise manufacturers on a matching basis to help them set up smart production lines in Hong Kong as mentioned in the Budget Speech? Will the Government provide more details on the Scheme? What are the funding ceiling for each application and the matching ratio? Can the same manufacturer make multiple applications for the Scheme? What are the manpower and expenditure involved in the Scheme?

Asked by: Hon NG Wing-ka, Jimmy (LegCo internal reference no.: 1)

Reply:

The Government plans to inject \$2 billion into the Innovation and Technology Fund (ITF) for launching a Re-industrialisation Funding Scheme (the Scheme) to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong, with a view to expediting the realisation of "re-industrialisation". We are formulating the operational details of the Scheme, including the eligibility criteria, the funding scope, mode and amount, as well as the vetting mechanism, etc. in consultation with the industries. We will consult the Legislative Council (LegCo) Panel on Commerce and Industry on the Scheme in May 2019 before seeking funding approval from the LegCo Finance Committee, with an aim to launch the Scheme in the second half of this year.

The Scheme is part of the work under Programme (3) Planning for Innovation and Technology Development. The establishment under Programme (3) involves 64 staff in 2019-20 and the estimated expenditure is \$152.5 million, which is mainly for salaries and departmental expenses. The relevant staff are responsible for handling various ITF funding schemes. We do not have a breakdown of expenditure for individual work.

- End -

CONTROLLING OFFICER'S REPLY

ITB137

(Question Serial No. 0389)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): ()

Programme: (4) Infrastructural Support

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Chairman, it is mentioned in the Budget Speech that an InnoCell will be completed in 2021, offering about 500 residential units to technology talent in the Hong Kong Science Park (HKSP). With the Government's vigorous efforts to develop innovation and technology (I&T) in the future, it is expected that 500 units may not meet the demand. Will the Government plan to construct more InnoCells? If yes, what are the details? If no, what are the reasons? Will the Government consider relaxing the admission eligibility in the future, such as extending it to cover local employees of the tenants/incubatees in the HKSP or even I&T talent outside the HKSP? If yes, what are the details? If no, what are the reasons?

Asked by: Hon NG Wing-ka, Jimmy (LegCo internal reference no.: 2)

Reply:

The InnoCell is an important infrastructure developed by the Hong Kong Science and Technology Parks Corporation (HKSTPC). Taking into account the size and height restriction of the site for developing the InnoCell, the InnoCell can provide about 500 units for residential use. As these units have great flexibility and the rental periods range from short- to medium-term, it is considered that they can cope with the demand of the companies in the Hong Kong Science Park (HKSP). Besides, the HKSTPC will keep reviewing the demand.

The development of the InnoCell aims to attract more high-quality research companies and recruit more technology talent to Hong Kong. The target tenants of the InnoCell are mainly principals of tenants/incubatees in the HKSP; overseas or Mainland employees of the existing tenants/incubatees in the HKSP; and visiting scientists/researchers from overseas or the Mainland. The HKSTPC will from time to time review the admission eligibility and scoring criteria of the InnoCell, taking into account operational experience, the demand and supply situation of accommodation, etc.

- End -

CONTROLLING OFFICER'S REPLY

ITB138

(Question Serial No. 1677)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (4) Infrastructural Support

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in paragraph 67 of the Budget Speech that Stage 1 of the Hong Kong Science Park (HKSP) Expansion Programme is also underway. It will provide an additional floor area of around 74 000 square metres upon its scheduled completion this year. Given that the admission rate of the HKSP has reached nearly 90%, will the Government inform this Committee of the following:

- (1) Please list in tabular form the details of various development plans of innovation and technology (I&T) sites, including the expected construction and completion time, land area, construction fees and the estimated number of jobs to be created upon completion.
- (2) Please list in tabular form the location, area involved and expected direction of development of the new sites that have been planned for I&T uses at present.

Asked by: Hon NG Wing-ka, Jimmy (LegCo internal reference no.: 72)

Reply:

A consolidated reply to the 2 parts of the question is given below:

To cater for the development of innovation and technology (I&T), the Government actively identifies necessary land and development space for the industry. Information on the land currently reserved for I&T development uses is set out in the table **below**:-

	Site	Approximate site area planned for I&T uses	Latest position
Sites already granted to the Hong Kong Science and Technology Parks Corporation (HKSTPC) or for the development of the Lok Ma Chau Loop (about 97.8 hectares in total)			
1.	Remaining sites within the Industrial Estates in Tseung Kwan O, Yuen Long and Tai Po	10.5 hectares	The sites will be developed by the HKSTPC in accordance with the re-industrialisation policy. The mode of development and employment opportunities to be created are to be further assessed.
2.	Government land at the junction of Chong San Road and Science Park Road, Pak Shek Kok, Tai Po	0.29 hectares	The HKSTPC is constructing the InnoCell which will provide a maximum of about 500 units for residential use with flexible design and ancillary facilities, such as shared working spaces, for leasing to the tenants and incubatees in the Hong Kong Science Park (HKSP) for their principals, and employees or visiting researchers from overseas or the Mainland. The project is expected to be completed in end-2020 and will create about 300 direct or indirect employment opportunities.
3.	Lok Ma Chau Loop	87 hectares	<p>The Advance Works are underway. The aim is to make the first batch of land parcels available to the Hong Kong-Shenzhen Innovation and Technology Park Limited by 2021 for the construction of the first batch of buildings and related facilities.</p> <p>The gross floor area of the Hong Kong-Shenzhen Innovation and Technology Park (the Park) is approximately 3 times that of the HKSP. Based on this factor alone, it is roughly estimated that around 50 000 jobs could be created inside the Park.</p>
Sites approved for I&T uses under Outline Zoning Plans (about 26.5 hectares in total)			
4.	Kwu Tung North New Development Area	17.5 hectares	Suitable sites have been zoned under “Other Specified Uses” annotated “research and development” (5.8 hectares) and “business and technology park”

	Site	Approximate site area planned for I&T uses	Latest position
			(11.7 hectares) on the Outline Zoning Plan. It is estimated that over 18 000 employment opportunities could be provided.
5.	Hung Shui Kiu New Development Area	9 hectares	Suitable sites have been reserved for I&T-related development on the Outline Zoning Plan. Detailed land development plans are to be further studied. It is estimated that about 19 000 employment opportunities could be provided by the new development area.
Sites reserved for I&T uses but subject to further study (about 105 hectares in total)			
6.	Yuen Long Industrial Estate Extension at Wang Chau	15 hectares	The HKSTPC commenced a study on the engineering and technical feasibility in February 2019 to explore the mode of development of the site so as to cater for the admission of high-tech industries.
7.	Site near Liantang / Heung Yuen Wai Boundary Control Point	56 hectares	The HKSTPC commissioned a consultant in end-2018 to carry out a study on the development vision of the site as a new industrial estate, and will conduct further studies on technical feasibility and mode of development in due course.
8.	New Territories North (NTN)	34 hectares	In the Preliminary Feasibility Study on Developing the NTN, several sites located in the Potential Development Areas have been identified as having potential for I&T-related development. Subject to the findings of the “Hong Kong 2030+: Towards a Planning Vision and Strategy Transcending 2030”, detailed planning and engineering studies will be conducted. Detailed land development plans of the sites are to be further studied.

- End -

CONTROLLING OFFICER'S REPLY

ITB139

(Question Serial No. 4027)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

What were the respective numbers of persons benefitted from the Technology Talent Admission Scheme and the Technology Talent Scheme last year?

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 198)

Reply:

The Technology Talent Admission Scheme was launched in June 2018. As at end-February 2019, 225 quotas were allotted by the Innovation and Technology Commission, and 40 applications of visa/entry permit using the quotas were approved by the Immigration Department.

The Technology Talent Scheme, which comprises the Postdoctoral Hub and the Reindustrialisation and Technology Training Programme (RTTP), was launched in August 2018. As at end-January 2019, a total of 360 postdoctoral talent were funded by the Postdoctoral Hub to undertake research and development work, and 349 staff of local enterprises were funded by the RTTP to receive technology trainings.

- End -

CONTROLLING OFFICER'S REPLY

ITB140

(Question Serial No. 4028)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

As mentioned in the matters requiring special attention in 2019-20, the funding support for designated universities to enhance their technology transfer capabilities, and that for State Key Laboratories and Hong Kong Branches of Chinese National Engineering Research Centres will be increased. What is the expenditure?

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 199)

Reply:

To unleash our strengths in scientific research and foster technology transfer as well as realisation of research and development results, we will, starting from 2019-20, double the funding through the Innovation and Technology Fund as follows –

- (a) the maximum annual funding for each Technology Transfer Office of the 7 designated universities will be \$8 million; and
- (b) the maximum annual funding for each of the 16 State Key Laboratories and 6 Hong Kong Branches of Chinese National Engineering Research Centres will be \$10 million.

The maximum funding involved in the above arrangements in 2019-20 is \$276 million in total.

- End -

CONTROLLING OFFICER'S REPLY

ITB141

(Question Serial No. 4029)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is stated under Matters Requiring Special Attention in 2019-2020 that the Government will launch the Re-industrialisation Funding Scheme. What is the expected effectiveness of the Scheme?

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 200)

Reply:

The Government plans to inject \$2 billion into the Innovation and Technology Fund for launching a Re-industrialisation Funding Scheme (the Scheme) to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong, with a view to expediting the realisation of “re-industrialisation”. We are formulating the operational details of the Scheme, including the eligibility criteria, the funding scope, mode and amount, as well as the vetting mechanism, etc. in consultation with the industries. We will consult the Legislative Council (LegCo) Panel on Commerce and Industry on the Scheme in May 2019 before seeking funding approval from the LegCo Finance Committee, with an aim to launch the Scheme in the second half of this year.

We envisage that the Scheme can provide economic incentives for enterprises to adopt smart production, thereby expediting the progress of “re-industrialisation” in Hong Kong. We will review the effectiveness of the Scheme in due course after its launch.

- End -

CONTROLLING OFFICER'S REPLY

ITB142

(Question Serial No. 4030)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (4) Infrastructural Support

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is stated under Matters Requiring Special Attention in 2019-2020 that the Government will work on the setting up of 2 research clusters in Hong Kong. What are the respective progress and timetables of the 2 clusters?

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 201)

Reply:

Since the announcement of the InnoHK initiative, 47 proposals have been received from a number of world leading universities and research institutions from Hong Kong, overseas and the Mainland. The relevant vetting process is still underway. We envisage that the first batch of research institutions will start setting up their laboratories in the two clusters in the fourth quarter of 2019.

- End -

CONTROLLING OFFICER'S REPLY**ITB143****(Question Serial No. 4922)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the work of the Innovation and Technology Bureau (ITB) on implementing the Innovation and Technology Fund (ITF), will the HKSAR Government advise on the following:

1. Please list in tabular form the details and number of applications for the ITF received, the details, number and funding amount of the projects approved, as well as the manpower and expenditure involved in the past 3 years.
2. Please list in tabular form the details of ITB's publicity work on promoting the ITF to society, companies, online communities and universities, as well as the manpower and expenditure involved in the past 3 years.

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 100)

Reply:

A consolidated reply to both parts of the question is as follows:

The numbers of applications received and approved as well as the amount of funding approved under various funding schemes of the Innovation and Technology Fund (ITF) in the past 3 financial years are as follows:

	Funding scheme	2016-17	2017-18	2018-19 (as at end January 2019)
Supporting Research and Development				
1	Innovation and Technology Support Programme (ITSP)			
	Number of applications	619	603	393
	Number of applications approved	264	205	185
	Amount of funding approved (\$ million)	747.3	829.0	520.8

	Funding scheme	2016-17	2017-18	2018-19 (as at end January 2019)
2	Guangdong-Hong Kong Technology Cooperation Funding Scheme (TCFS)			
	Number of applications	83	0 ^{Note 1}	153
	Number of applications approved	9	19	1 ^{Note 2}
	Amount of funding approved (\$ million)	11.9	29.3	1.1
3	University-Industry Collaboration Programme (UICP)			
	Number of applications	34	20	38
	Number of applications approved	20	31	18
	Amount of funding approved (\$ million)	31.0	50.9	25.0
4	Enterprise Support Scheme (ESS)			
	Number of applications considered by assessment panel members	92	94	83
	Number of applications supported	15	36	37
	Amount of funding involved for the applications supported (\$ million)	42.0	110.1	134.9
5	Research and Development Cash Rebate Scheme			
	Number of applications	279	297	281
	Number of applications approved	285	286	274
	Amount of rebate approved (\$ million)	72.4	100.2	108.5
6	Midstream Research Programme for Universities (MRP)			
	Number of applications ^{Note 3}	111	0	58
	Number of applications approved	-	8	16
	Amount of funding approved (\$ million)	-	33.6	83.4
Facilitating Technology Adoption				
7	Public Sector Trial Scheme (PSTS)			
	Number of applications	28	36	38
	Number of applications approved	25	31	29
	Amount of funding approved (\$ million)	37.3	56.7	48.7
8	Technology Voucher Programme (TVP)			
	Number of applications	110	605	753
	Number of applications approved	102	579	382
	Amount of funding approved (\$ million)	13.9	78.7	56.0
Nurturing Technology Talent				
9	Researcher Programme (formerly known as Internship Programme)			
	Number of applications for engagement of researchers	453	729	668
	Number of researchers approved	389	672	632
	Amount of funding approved	99.9	200.1	177.5

	Funding scheme	2016-17	2017-18	2018-19 (as at end January 2019)
	(\$ million)			
10	Postdoctoral Hub ^{Note 4}			
	Number of applications for engagement of postdoctoral talents	-	-	380
	Number of postdoctoral talents approved	-	-	360
	Amount of funding approved (\$ million)	-	-	180.3
11	Reindustrialisation and Technology Training Programme (RTTP) ^{Note 4}			
	Number of staff of local enterprises under application	-	-	416
	Number of staff of local enterprises approved	-	-	349
	Amount of funding approved (\$ million)	-	-	2.35
Promoting an Innovation and Technology Culture				
12	General Support Programme (GSP)			
	Number of applications	21	28	30
	Number of applications approved	23	25	20
	Amount of funding approved (\$ million)	38.5	40.1	29.3
13	Patent Application Grant			
	Number of applications	327	332	333
	Number of applications approved	165	180	167
	Amount of funding approved (\$ million)	41.3	45	41.8
Supporting Technology Start-ups				
14	Technology Start-up Support Scheme for Universities (TSSSU)			
	Number of applications	178	149	159
	Number of applications approved	67	58	64
	Amount of funding approved (\$ million)	24	24	24
15	The Innovation and Technology Venture Fund	The Innovation and Technology Commission is considering the investment proposals received		

Note 1 No solicitation of project proposals was conducted under the TCFS in 2017-18.

Note 2 As the applications under Category C (i.e. projects to be jointly solicited, vetted and funded by Guangdong/Shenzhen and Hong Kong) of the TCFS in 2018 are still subject to vetting by the Mainland side, so far only 1 application under Category A (i.e. projects to be solicited, vetted and funded solely by Hong Kong) of the TCFS has been approved in 2018-19.

Note 3 The MRP was launched in late December 2016. Its second round application was open from February to April 2018.

Note 4 The Postdoctoral Hub and the RTTP were launched in August 2018.

The summaries of projects approved (including the titles and funding amounts, etc.) under the ITSP, TCFS, UICP, ESS, MRP, PSTS, the Researcher Programme, the Postdoctoral Hub, and GSP are available on the ITF website:

https://www.itf.gov.hk/1-eng/prj_search_index.asp. The summary of projects approved (including the titles and funding amounts, etc.) under the TVP is available on the following website: https://www.itf.gov.hk/1-eng/TVP_ApprovedPrj.asp. The information of TSSSU-funded start-ups and the amount of funding approved are listed in the TSSSU Directory on the ITF website: https://www.itf.gov.hk/1-eng/TSSSU_directory.asp.

Implementation of the funding schemes under the ITF are part of Programmes (1) Support for Research and Development, (2) Promotion of Technological Entrepreneurship, and (3) Planning for Innovation and Technology Development. On publicity and promotion, we disseminate the latest information of each funding scheme, summary of funded projects and the relevant statistics on the ITF website (<http://www.itf.gov.hk>), and promote various ITF funding schemes through channels like briefing sessions, etc. We do not have a breakdown of the manpower and expenditure involved in the implementation of the funding schemes.

- End -

CONTROLLING OFFICER'S REPLY**ITB144****(Question Serial No. 4275)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (2) Promotion of Technological Entrepreneurship

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please list in tabular form the following information in the past 4 years:

- (a) Details of the applications by technology area, including (i) the number of applications, (ii) the applications approved, (iii) the amount of funding
- (b) Details of the applications by industrial sector, including (i) the number of applications, (ii) the applications approved, (iii) the amount of funding
- (c) Locations where research and development (R&D) work was conducted
- (d) Amount of benefit-sharing with the Government
- (e) Progress, funding amount and estimated profits of the applications approved
- (f) Number of patents of the proposed projects approved
- (g) Content of patents of the proposed projects approved

(a) By technology area

Technology area	i	ii	iii
Advanced Manufacturing/Process Development			
Automotive Parts and Accessories			
Biotechnology			
Chinese Medicine			
Electronics			
Energy			
Environmental protection			
Information and Communication Technologies			
Logistics and Supply Chain Management			
Nanotechnology and Materials Science			
Testing and Certification			
Textiles/Clothing/Footwear			
Others			

(b) By industrial sector

Industrial sector	i	ii	iii
Banking/Financial Market/Fund Management/Insurance			
Biotechnology			
Chinese Medicine			
Electrical and Electronics			
Environmental			
Food and Beverage			
General (Cross Sectors)			
Import and Export Trade			
Manufacturing Engineering			
Information Technology			
Materials			
Precision Engineering			
Printing and Publishing			
Professional Services			
Real Estate/Property Management			
Telecommunications			
Textiles/Clothing/Footwear			
Tourism			
Transportation			
Wholesale and Retail			
Others			

(c) Locations where R&D work was conducted

	2015	2016	2017	2018
Hong Kong				
Mainland				
Overseas				

(d) Amount of benefit-sharing with the Government

	2015	2016	2017	2018
Amount of benefit-sharing				

(e) Progress, funding amount, estimated profits and project expenditure of the applications approved

Project title	Progress	Funding amount	Estimated profit

(f) Number of patents of the proposed projects approved

	2015	2016	2017	2018
Number of patents				

(g) Please list in tabular form the project title and patent number in the past 4 years

Project title	Patent number

Asked by: Hon SHIU Ka-chun (LegCo internal reference no.: 14)

Reply:

(a) and (b)

The applications considered by the Enterprise Support Scheme (ESS) assessment panel (the panel) by technology area and industrial sector in the past 4 financial years (as at end February 2019) are tabulated as follows:

By technology area

Technology area	Number of applications considered by the panel	Number of applications supported ^{Note 1}	Amount of funding (\$ million) ^{Note 2}
Advanced Manufacturing/Process Development	24	8	35.0
Automotive Parts and Accessories	1	0	0
Biotechnology	47	13	35.5
Chinese Medicine	4	3	13.8
Electronics	86	33	89.3
Energy	9	3	9.3
Environmental protection	8	2	2.3
Information and Communication Technologies	163	33	114.4
Logistics and Supply Chain Management	2	1	1.6
Nanotechnology and Materials Science	11	5	24.8
Testing and Certification	1	0	0
Textiles/Clothing/Footwear	0	0	0
Others	5	1	3.5
Total	361	102	329.5

By industrial sector

Industrial sector	Number of applications considered by the panel	Number of applications supported ^{Note 1}	Amount of funding (\$ million) ^{Note 2}
Banking/Financial Market/Fund Management/Insurance	14	2	6.5
Biotechnology	57	17	58.1
Chinese Medicine	6	3	13.6
Electrical and Electronics	88	36	104.8
Environmental	11	3	5.1
Food and Beverage	12	3	10.8
General (Cross Sectors)	6	2	7.4
Import and Export Trade	6	2	1.5
Manufacturing Engineering	13	3	11.7
Information Technology	105	23	84.1
Materials	3	3	11.7
Precision Engineering	3	1	1.2
Printing and Publishing	3	0	0
Professional Services	13	1	3.9
Real Estate/Property Management	2	0	0
Telecommunications	3	0	0
Textiles/Clothing/Footwear	1	0	0
Tourism	1	0	0

Industrial sector	Number of applications considered by the panel	Number of applications supported ^{Note 1}	Amount of funding (\$ million) ^{Note 2}
Transportation	5	2	7.5
Wholesale and Retail	5	0	0
Others	4	1	1.6
Total	361	102	329.5

- (c) The locations of the research and development (R&D) work by region for the 62 projects ^{Note 3} supported by the panel with funding agreements duly signed subsequently in the past 4 financial years are as follows:

	Ratio of project's R&D work conducted in each region to overall project work (%)			
	2015-16	2016-17	2017-18	2018-19
Hong Kong	89	98	96	86
Mainland	6	2	3	12
Overseas	5	0	1	2
Total	100	100	100	100

- (d) To encourage private enterprises in Hong Kong to invest more resources in in-house R&D, the enterprises are not required to share the benefit generated from their funded projects with the Government under the ESS. In the past 4 financial years, no enterprises shared the benefit generated from the funded projects with the Government.
- (e) The reference numbers, progress and funding amount of the 62 projects ^{Note 3} supported by the panel with funding agreements duly signed subsequently are tabulated below. Other information on these projects (including the titles) are available on the Innovation and Technology Fund website: https://www.itf.gov.hk/1-eng/prj_search_index.asp.

Project No.	Project progress	Amount of funding approved (\$ million)
B/E001/15	In progress	5.8
B/E011/15	Completed	8.5
B/E019/15	Completed	10.0
B/E038/15	In progress	3.5
B/E008/16	Completed	4.8
B/E017/16	In progress	2.1
B/E032/16	In progress	4.6
B/E033/16	In progress	2.8
B/E034/16	In progress	6.1
B/E040/16	In progress	10.0
B/E042/16	In progress	2.3
B/E048/16	In progress	1.8
B/E051/16	In progress	4.9

Project No.	Project progress	Amount of funding approved (\$ million)
B/E053/16	In progress	5.4
B/E005/17	In progress	10.0
B/E009/17	In progress	3.6
B/E014/17	In progress	0.7
B/E016/17	In progress	7.4
B/E019/17	In progress	5.0
B/E022/17	In progress	9.4
B/E023/17	In progress	10.0
B/E028/17	In progress	10.0
B/E001/18	In progress	5.2
B/E004/18	In progress	4.1
S/E035/15	Completed	1.3
S/E039/15	Completed	1.4
S/E040/15	Completed	1.3
S/E043/15	Completed	1.3
S/E049/15	In progress	2.1
S/E052/15	Completed	1.0
S/E056/15	In progress	2.4
S/E068/15	Completed	2.5
S/E085/15	Completed	2.4
S/E087/15	Completed	1.7
S/E096/15	Completed	2.3
S/E005/16	Completed	0.7
S/E009/16	In progress	2.2
S/E012/16	Completed	0.8
S/E014/16	In progress	2.0
S/E017/16	Completed	1.7
S/E026/16	In progress	1.0
S/E050/16	Completed	0.2
S/E054/16	In progress	2.0
S/E062/16	Completed	0.9
S/E068/16	In progress	2.0
S/E081/16	In progress	1.6
S/E102/16	In progress	2.4
S/E103/16	In progress	1.9
S/E012/17	In progress	1.8
S/E014/17	In progress	1.6
S/E018/17	In progress	1.1
S/E019/17	In progress	2.6
S/E024/17	In progress	1.6
S/E029/17	In progress	2.5

Project No.	Project progress	Amount of funding approved (\$ million)
S/E037/17	In progress	0.8
S/E038/17	In progress	1.3
S/E042/17	In progress	2.3
S/E045/17	In progress	2.3
S/E053/17	In progress	0.1
S/E061/17	In progress	1.6
S/E065/17	In progress	1.1
S/E078/17	In progress	2.4
Total	-	200.2

(f) The number of patents filed under the 62 projects ^{Note 3} supported by the panel with funding agreements duly signed subsequently in the past 4 financial years is tabulated as follows:

	2015-16	2016-17	2017-18	2018-19
Number of patents	9	15	3	0

(g) Under the ESS requirements, the intellectual property rights generated from the funded projects are owned by the responsible enterprises. We are not allowed to make available the relevant commercial information, including the patent number.

Note:

1. The above figures do not include the 21 applications being withdrawn by the applicants after support has been granted.
2. The amount of funding involved for the supported applications may not add up to total due to rounding.
3. Among the 102 applications supported, 40 cases required amendments to be made in accordance with the panel's recommendations and the funding guideline. The signing of agreements has yet to be completed.

- End -

CONTROLLING OFFICER'S REPLY**ITB145****(Question Serial No. 4276)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): ()

Programme: Not Specified

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the Guangdong-Hong Kong Technology Co-operation Funding Scheme (TCFS), please inform this Committee of the following:

1) Please tabulate the details of the approved collaborative projects jointly funded by Guangdong and Hong Kong under Category C(1) in each of the past 5 years, including (i) project titles; (ii) key technology areas; (iii) funding amount; (iv) collaborating parties in Hong Kong; (v) collaborating parties in Guangdong; (vi) whether patents have been successfully applied; (vii) intellectual property (IP) owners; (viii) whether the related projects are adopted by industry partners; and (ix) monitoring units of the projects.

Year

(i) Project title	(ii) Key technology area	(iii) Funding amount	(iv) Collaborating party in Hong Kong	(v) Collaborating party in Guangdong	(vi) Whether patents have been successfully applied	(vii) IP owner	(viii) Whether the project is adopted by industry partners	(ix) Monitoring unit of the project

2) Please tabulate the details of the approved collaborative projects jointly funded by Shenzhen and Hong Kong under Category C(2) in each of the past 5 years, including (i) project titles; (ii) key technology areas; (iii) funding amount; (iv) collaborating parties in Hong Kong; (v) collaborating parties in Shenzhen; (vi) whether patents have been successfully applied; (vii) IP owners; (viii) whether the related projects are adopted by industry partners; and (ix) monitoring units of the projects.

Year

(i) Project title	(ii) Key technology area	(iii) Funding amount	(iv) Collaborating party in Hong Kong	(v) Collaborating party in Shenzhen	(vi) Whether patents have been successfully applied	(vii) IP owner	(viii) Whether the project is adopted by industry partners	(ix) Monitoring unit of the project

Asked by: Hon SHIU Ka-chun (LegCo internal reference no.: 16)

Reply:

A consolidated reply to the 2 parts of the question is as follows:

The statistics of approved projects jointly funded by Guangdong and Hong Kong under Category C(1) and approved projects jointly funded by Shenzhen and Hong Kong under Category C(2) of the Guangdong-Hong Kong Technology Co-operation Funding Scheme (TCFS) from 2014 to 2018 are as follows:

	Category C(1) Projects jointly funded by Guangdong and Hong Kong		Category C(2) Projects jointly funded by Shenzhen and Hong Kong	
	Projects approved	Funding amount (\$ million)	Projects approved	Funding amount (\$ million)
2014	0	0	10	19.55
2015	1	1.99	12	23.57
2016	8	11.32	1	0.54
2017	7	6.14	8	15.17
2018	1	0.86	0	0

References of the above approved projects are listed in the Annex. The project summary (including the title, lead applicant, collaborating party in Hong Kong/Guangdong/Shenzhen and funding amount, etc.) is available on the Innovation and Technology Fund website: https://www.itf.gov.hk/l-eng/prj_search_index.asp.

We do not have information on whether the projects have successfully applied for patents nor whether they are adopted by industry co-applicants. As a general rule, intellectual property (IP) rights generated from platform projects are vested with the lead applicants (including the 5 local Research and Development Centres and other designated local public research institutes). For collaborative projects, the IP rights of the projects may be owned by the industry co-applicants if they have contributed more than 50% of the total project costs. The lead applicant is required to monitor the project progress and expenditure, as well as to submit progress reports and audited accounts to the Innovation and Technology Commission.

Guangdong-Hong Kong Technology Co-operation Funding Scheme
(Projects approved under Category C from January 2014 to December 2018)

Projects jointly funded by Guangdong and Hong Kong under Category C(1)

No.	Project reference
1.	GHP/050/14GD
2.	GHP/003/16GD
3.	GHP/004/16GD
4.	GHP/012/16GD
5.	GHP/024/16GD
6.	GHP/025/16GD
7.	GHP/030/16GD
8.	GHP/034/16GD
9.	GHP/007/17GD
10.	GHP/008/17GD
11.	GHP/022/17GD
12.	GHP/040/17GD
13.	GHP/042/17GD
14.	GHP/046/17GD
15.	GHP/076/17GD
16.	GHX/001/16GD
17.	GHX/002/17GD

Projects jointly funded by Shenzhen and Hong Kong under Category C(2)

No.	Project reference
1.	GHP/001/13AZ
2.	GHP/002/13SZ
3.	GHP/007/13SZ
4.	GHP/012/13SZ

No.	Project reference
5.	GHP/014/13SZ
6.	GHP/018/13SZ
7.	GHP/022/13SZ
8.	GHP/025/13SZ
9.	GHP/031/13SZ
10.	GHP/038/13SZ
11.	GHP/006/14SZ
12.	GHP/007/14SZ
13.	GHP/009/14SZ
14.	GHP/010/14SZ
15.	GHP/015/14SZ
16.	GHP/016/14SZ
17.	GHP/017/14SZ
18.	GHP/028/14SZ
19.	GHP/029/14SZ
20.	GHP/043/14SZ
21.	GHP/055/14SZ
22.	GHP/011/17SZ
23.	GHP/021/17SZ
24.	GHP/025/17SZ
25.	GHP/036/17SZ
26.	GHP/057/17SZ
27.	GHP/071/17SZ
28.	GHP/079/17SZ
29.	GHX/003/13SZ
30.	GHX/002/14SZ
31.	GHX/005/17SZ

- End -

CONTROLLING OFFICER'S REPLY**ITB146****(Question Serial No. 4277)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: Not Specified

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the Guangdong-Hong Kong Technology Co-operation Funding Scheme (TCFS), please inform this Committee of the following:

- 1) Please list in tabular form the details of the TCFS applications in the past 5 years, including (i) the number of applications, (ii) the number of applications approved, (iii) the amount of funding approved, with a breakdown by (iv) Category A(1) "projects administered by the research and development centres", (v) Category A(2) "projects administered by the Innovation and Technology Commission", (vi) Category B "projects administered solely by Guangdong or Shenzhen", (vii) Category C(1) "projects jointly funded by Guangdong and Hong Kong" and (viii) Category C(2) "projects jointly funded by Shenzhen and Hong Kong".

	2014 iv, v, vi, vii, viii	2015 iv, v, vi, vii, viii	2016 iv, v, vi, vii, viii	2017 iv, v, vi, vii, viii	2018 iv, v, vi, vii, viii
(i) Number of applications					
(ii) Number of applications approved					
(iii) Amount of funding approved					

- 2) Please list in tabular form the details of the funding approved by the Government for projects in Category A(1) in the past 5 years, including (i) the number of applications, (ii) the number of applications approved, (iii) the amount of funding approved, with a breakdown by specific themes.

	2014 i ii iii	2015 i ii iii	2016 i ii iii	2017 i ii iii	2018 i ii iii
(a1) Green Transportation Technology Development					
(a2) Smart Mobility Development					
(a3) Material & Manufacture Technology					
(b1) Sustainability					
(c1) Internet of Things technologies and applications for Guangdong-Hong Kong logistics and supply chain industries					
(c2) Key enabling technologies for Guangdong-Hong Kong's logistics automation and robotics applications					
(c3) Key logistics and supply chain management technologies and applications for "Smart City" in Guangdong-Hong Kong area					
(c4) Enabling logistics and supply chain management/block chain technologies for upgrading servicing industries in Guangdong-Hong Kong area					
(c5) Key technologies and applications to enhance supply chain security in Guangdong-Hong Kong area					
(c6) Cloud technologies and analytic applications for Guangdong-Hong Kong logistics and supply chain management industries					
(d1) Mobile Edge Computing Applications with low network latency and enhanced user experience					
(d2) Millimetre Wave Antenna Array enabled Applications					
(d3) Smart Power & Energy					
(e1) Nano/advanced materials for sustainable energy					
(e2) Nano/advanced materials and technologies for display and solid-state lighting including printable electronics					
(e3) Construction/building nano and advanced materials for applications					
(e4) Nano/advanced materials and technologies for environmental applications					
(e5) Nano/advanced materials and					

	2014 i ii iii	2015 i ii iii	2016 i ii iii	2017 i ii iii	2018 i ii iii
technologies for bio and healthcare applications					

- 3) Please list in tabular form the details of the funding approved by the Government for projects in Category A(2) in the past 5 years, including (i) the number of applications, (ii) the number of applications approved, (iii) the amount of funding approved, with a breakdown by specific themes.

	2014 i ii iii	2015 i ii iii	2016 i ii iii	2017 i ii iii	2018 i ii iii
(a) Advanced internet applied technologies					
(b) Advanced information and communications applied technologies					
(c) Advanced intelligent multimedia applied technologies					
(d) Advanced manufacturing equipment and key technologies					
(e) Applied information security technologies					
(f) Biotechnology					
(g) Chinese medicines					
(h) Environmental technology					
(i) Electronics					
(j) New materials applied technologies					
(k) Testing and certification					

- 4) Please list in tabular form the details of the funding approved by the Government for projects in Category C(1) in the past 5 years, including (i) the number of applications, (ii) the number of applications approved, (iii) the amount of funding approved, with a breakdown by specific themes.

	2014 i ii iii	2015 i ii iii	2016 i ii iii	2017 i ii iii	2018 i ii iii
(a) Mobile internet					
(b) Big data technology					
(c) Advanced manufacturing equipment					
(d) Intelligent robotics					
(e) New materials					
(f) New energy					
(g) Energy conservation and environmental protection (air and water pollution control)					
(h) Biotechnology					
(i) Food safety					

- 5) Please list in tabular form the details of the funding approved by the Government for projects in Category C(2) in the past 5 years, including (i) the number of applications, (ii) the number of applications approved, (iii) the amount of funding approved, with a breakdown by specific themes.

	2014 i ii iii	2015 i ii iii	2016 i ii iii	2017 i ii iii	2018 i ii iii
(a) Internet					
(b) Biology					
(c) New energy					
(d) New materials					
(e) New generation information technology					
(f) Energy conservation and environmental protection					
(g) Marine					
(h) Aviation and aerospace					
(i) Life and health					
(j) Robotics					
(k) Wearable device and intelligent equipment					
(l) Financial technology					
(m) Advanced manufacturing technology					
(n) Safe production					
(o) Resource environment					
(p) Technology areas relating to the improvement of people's livelihood					

Asked by: Hon SHIU Ka-chun (LegCo internal reference no.: 17)

Reply:

The requested information is provided below:

- (1) A total of 334 applications of projects under Category A and Category C of the Guangdong-Hong Kong Technology Co-operation Funding Scheme (TCFS) were received in the past 5 years (i.e. 2014 to 2018). During the same period, 58 projects were approved with a total funding of about \$113 million. Details of the applications received and approved are listed below by year. Applications under Category B are submitted directly to and administered by the relevant Guangdong or Shenzhen authorities. The Innovation and Technology Commission does not have the relevant statistical figures.

Year	Number of applications (Note 1)	Projects approved (Note 2)	Funding amount approved (\$ million)
2014	0	12	24.93
2015	98	16	45.05

Year	Number of applications (Note 1)	Projects approved (Note 2)	Funding amount approved (\$ million)
2016	83	10	12.7
2017	0	17	26.48
2018	153	3	3.97

Note 1: No TCFS applications were invited in 2014 and 2017.

Note 2: Applications under Category C (i.e. projects jointly funded by Guangdong/Shenzhen and Hong Kong) of the TCFS received in 2018 are still subject to vetting by the Mainland side.

(2) - (5) The summary of the projects approved under the TCFS (including the title, technology area and funding amount, etc.) is available on the Innovation and Technology Fund website: https://www.itf.gov.hk/1-eng/prj_search_index.asp. Reference numbers of the approved projects are listed in the Annex by year.

- End -

Guangdong-Hong Kong Technology Co-operation Funding Scheme
(Projects approved from 2014 to 2018)

2014
<u>Category A(2)</u>
GHP/020/13
GHP/030/13
<u>Category C(2)</u>
GHP/001/13AZ
GHP/002/13SZ
GHP/007/13SZ
GHP/012/13SZ
GHP/014/13SZ
GHP/022/13SZ
GHP/025/13SZ
GHP/031/13SZ
GHP/038/13SZ
GHX/003/13SZ
2015
<u>Category A(1)</u>
GHP/057/14AP
<u>Category A(2)</u>
GHP/048/14
GHP/053/14
<u>Category C(1)</u>
GHP/050/14GD
<u>Category C(2)</u>
GHP/018/13SZ
GHP/006/14SZ
GHP/007/14SZ
GHP/009/14SZ
GHP/010/14SZ
GHP/015/14SZ
GHP/016/14SZ
GHP/017/14SZ
GHP/028/14SZ
GHP/029/14SZ
GHP/043/14SZ
GHP/055/14SZ

2016
<u>Category A(2)</u>
GHP/041/14
<u>Category C(1)</u>
GHP/003/16GD
GHP/004/16GD
GHP/012/16GD
GHP/024/16GD
GHP/025/16GD
GHP/030/16GD
GHP/034/16GD
GHX/001/16GD
<u>Category C(2)</u>
GHX/002/14SZ
2017
<u>Category A(2)</u>
GHP/055/17
GHX/004/17
<u>Category C(1)</u>
GHP/007/17GD
GHP/008/17GD
GHP/022/17GD
GHP/040/17GD
GHP/042/17GD
GHP/076/17GD
GHX/002/17GD
<u>Category C(2)</u>
GHP/011/17SZ
GHP/021/17SZ
GHP/025/17SZ
GHP/036/17SZ
GHP/057/17SZ
GHP/071/17SZ
GHP/079/17SZ
GHX/005/17SZ

2018
<u>Category A(1)</u>
GHP/033/17AP
<u>Category A(2)</u>
GHX/017/18
<u>Category C(1)</u>
GHP/046/17GD

CONTROLLING OFFICER'S REPLY

ITB147

(Question Serial No. 4240)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is proposed in the Budget that the Government will regularise the Technology Voucher Programme and roll out enhancement measures, including doubling the funding ceiling for each enterprise from \$200,000 to \$400,000 to encourage the wider adoption of technology by local enterprises to improve their efficiency and services. Will the Government advise on the estimated expenditure concerned, and the number of beneficiary enterprises in each of the past 3 years (please list out in tabular form by industry)?

Asked by: Hon SHIU Ka-fai (LegCo internal reference no.: 59)

Reply:

Enhancement measures under the Technology Voucher Programme (TVP), including doubling the funding ceiling and relaxing the eligibility criteria, etc., were announced in this year's Budget and have been implemented since 27 February 2019. We envisage that more organisations will be attracted to apply for the TVP. Applicants may also conduct more projects or projects of larger scale. With the implementation of the new measures, the annual expenditure for the TVP is expected to increase from the original estimate of about \$100 million to about \$140 million.

Since the launch of the TVP in November 2016 up to end February 2019, 1 114 applications have been assessed by the TVP Committee, of which 1 063 have been approved. The major types of business engaged in by the approved applicants are tabulated as follows –

Financial year in which the applications were received	Number of applications approved	Major type of business engaged ^{Note}
2016-17 (from November 2016)	102	Wholesale and retail (19) Import and export trade (12) Professional services (10) Engineering (10) Information technology (7)
2017-18	579	Wholesale and retail (132) Import and export trade (102) Professional services (45) Transport and logistics (31) Information technology (30)
2018-19 (as at end February 2019)	382	Wholesale and retail (96) Import and export trade (70) Professional services (19) Medical services (16) Education services (14) Information technology (14)

^{Note} Applicants may engage in more than one type of business; figures in brackets indicate the number of approved applications involving the respective business among the applications received in that financial year.

- End -

CONTROLLING OFFICER'S REPLY

ITB148

(Question Serial No. 0606)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (4) Infrastructural Support

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

In 2018-19, \$7 billion was reserved for the Hong Kong Science and Technology Parks Corporation to enhance support for its tenants and incubatees. Will the Government advise this Committee on:

- (1) the policies actually implemented to support start-ups;
- (2) the criteria for selecting start-up incubatees;
- (3) the list of approved start-ups and the amount of funding.

Asked by: Hon TIEN Puk-sun, Michael (LegCo internal reference no.: 35)

Reply:

A consolidated reply to the various parts of the question is as follows:

Starting from October 2018, the Hong Kong Science and Technology Parks Corporation (HKSTPC) has enhanced its 3 Incubation Programmes, including Incu-App, Incu-Tech, and Incu-Bio, under which the funding ceilings for incubatees have been increased from \$60,000, \$180,000 and \$240,000 to \$860,000, \$1.29 million and \$4 million respectively. The scope of funding includes rental subsidy, grant, and targeted funding for technology and business development. Besides, the HKSTPC launched the Science and Technology Entrepreneur Programme (STEP) to provide pre-incubation for entrepreneurial technology talents, including \$100,000 seed funding to help them turn their innovative ideas into reality and start their own businesses.

The HKSTPC will assess each application under the Incubation Programmes and the STEP based on criteria such as the competence of the applicant enterprise's management team, business potential, innovative elements, content of the research concerned, and business viability, etc.

Since the expansion of the Incubation Programmes, a total of 240 incubatees have been benefitted from the new financial assistance and supporting services. Subject to regular

milestone assessments, incubatees will only be granted the financial assistance upon meeting the corresponding business targets and passing the assessments. As at end February 2019, HKSTPC has disbursed around \$18 million of financial assistance under the enhanced Incubation Programmes.

- End -

CONTROLLING OFFICER'S REPLY

ITB149

(Question Serial No. 2395)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Innovation and Technology Bureau will inject \$2 billion to launch a Re-industrialisation Funding Scheme. Please provide in tabular form the number of manufacturers that have expressed interest or participated in the projects, as well as the details on the projects to be commenced.

Asked by: Hon TIEN Puk-sun, Michael (LegCo internal reference no.: 41)

Reply:

The Government plans to inject \$2 billion into the Innovation and Technology Fund for launching a Re-industrialisation Funding Scheme (the Scheme) to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong, with a view to expediting the realisation of "re-industrialisation". We are formulating the operational details of the Scheme, including the eligibility criteria, the funding scope, mode and amount, as well as the vetting mechanism, etc. in consultation with the industries. We will consult the Legislative Council (LegCo) Panel on Commerce and Industry on the Scheme in May 2019 before seeking funding approval from the LegCo Finance Committee, with an aim to launch the Scheme in the second half of this year.

- End -

CONTROLLING OFFICER'S REPLY

ITB150

(Question Serial No. 1609)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (4) Infrastructural Support

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

1. The Government has provided funding of \$10 billion to establish the “Health@InnoHK” and “AIR@InnoHK” in the Science Park. What is the latest spending position?
2. Which of the overseas universities that “have expressed interest”, as listed out by the Financial Secretary, have confirmed their participation in research and development (R&D) at the 2 clusters? What are the research projects involved?

Asked by: Hon TSE Wai-chun, Paul (LegCo internal reference no.: 47)

Reply:

Since the announcement of the InnoHK initiative, 47 proposals have been received from a number of world leading universities and research institutions from Hong Kong, overseas and the Mainland. As the relevant vetting process is still underway, we are not in a position to provide information on the universities that have confirmed their participation, the relevant research projects and the expenditure, etc.

- End -

CONTROLLING OFFICER'S REPLY

ITB151

(Question Serial No. 1610)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

1. How many applications for research and development (R&D) funding were received and approved under the Innovation and Technology Fund?
2. Please list in tabular form titles of the R&D projects for which funding applications have been received, approved and of those under consideration, as well as the amount of funding approved.

Asked by: Hon TSE Wai-chun, Paul (LegCo internal reference no.: 48)

Reply:

The required information is provided below:

- (1) From April 2014 to January 2019, a total of 1 335 research and development projects were approved under the Innovation and Technology Fund (ITF), with a total funding of around \$4 billion.
- (2) Once the approved applicant organisation has duly signed the project agreement, the project summary (including the title and funding amount, etc.) will be available on the ITF website (https://www.itf.gov.hk/l-eng/prj_search_index.asp). References of 1 335 approved projects are set out in the Annex.

Research and Development Funding Programmes
under the Innovation and Technology Fund
(Funded projects from April 2014 to January 2019)

Note:

1. Including projects from the Innovation and Technology Support Programme (ITSP), Guangdong - Hong Kong Technology Cooperation Funding Scheme (TCFS), University-Industry Collaboration Programme (UICP), Small Entrepreneur Research Assistance Programme (SERAP), Enterprise Support Scheme (ESS) and Midstream Research Programme for Universities (MRP).
2. Excluding partnership projects under the Research and Development (R&D) Cash Rebate Scheme. As the projects with cash rebate approved involved commercial information of private companies, it is not appropriate for us to make public the project details.

ITSP – supports R&D projects undertaken by local universities and public research institutions.

No.	Project Reference
1	ARD/132
2	ARD/136
3	ARD/144
4	ARD/145
5	ARD/146
6	ARD/147
7	ARD/149
8	ARD/153
9	ARD/159
10	ARD/160
11	ARD/162
12	ARD/163
13	ARD/164
14	ARD/165
15	ARD/166
16	ARD/167
17	ARD/168
18	ARD/169
19	ARD/170
20	ARD/181
21	ARD/182
22	ARD/183
23	ARD/184

No.	Project Reference
24	ARD/185
25	ARD/186
26	ARD/187
27	ARD/188
28	ARD/189
29	ARD/190
30	ARD/192
31	ARD/194
32	ARD/200
33	ARD/204
34	ARD/205
35	ARD/206
36	ARD/207
37	ARD/208
38	ARD/209
39	ARD/212
40	ARD/221
41	ARD/222
42	ARD/223
43	ARD/224
44	ARD/225
45	ARD/227
46	ARD/228

No.	Project Reference
47	ARD/133CL
48	ARD/134CL
49	ARD/135CL
50	ARD/137CL
51	ARD/138CL
52	ARD/139CL
53	ARD/140CL
54	ARD/141CL
55	ARD/142CL
56	ARD/143CL
57	ARD/148CL
58	ARD/150CL
59	ARD/151CL
60	ARD/152CL
61	ARD/154CL
62	ARD/155CL
63	ARD/156CL
64	ARD/157CL
65	ARD/158CL
66	ARD/161CL
67	ARD/171CL
68	ARD/172CL
69	ARD/173CL

No.	Project Reference
70	ARD/174CL
71	ARD/175CL
72	ARD/176CL
73	ARD/177CL
74	ARD/178CL
75	ARD/179CL
76	ARD/180CL
77	ARD/191CL
78	ARD/193CL
79	ARD/195CL
80	ARD/196CL
81	ARD/197CL
82	ARD/198CL
83	ARD/199CL
84	ARD/201CL
85	ARD/202CL
86	ARD/203CL
87	ARD/210CL
88	ARD/211CL
89	ARD/213CL
90	ARD/214CL
91	ARD/215CL
92	ARD/216CL
93	ARD/217CL
94	ARD/218CL
95	ARD/219CL
96	ARD/220CL
97	ART/174CP
98	ART/176CP
99	ART/177CP
100	ART/178CP
101	ART/179CP
102	ART/180CP
103	ART/181CP
104	ART/182CP
105	ART/183CP
106	ART/184CP
107	ART/185CP
108	ART/186CP
109	ART/187CP
110	ART/188CP
111	ART/189CP

No.	Project Reference
112	ART/190CP
113	ART/191CP
114	ART/192CP
115	ART/193CP
116	ART/194CP
117	ART/195CI
118	ART/196CP
119	ART/197CI
120	ART/198CI
121	ART/200CI
122	ART/201CP
123	ART/202CP
124	ART/203CP
125	ART/204CP
126	ART/205CP
127	ART/206CI
128	ART/207CP
129	ART/208CP
130	ART/209CP
131	ART/210CP
132	ART/211CI
133	ART/212CP
134	ART/213CP
135	ART/214CP
136	ART/216CP
137	ART/217CI
138	ART/218CP
139	ART/219CP
140	ART/220CP
141	ART/221CP
142	ART/222CP
143	ART/223CP
144	ART/224CP
145	ART/225CP
146	ART/226CI
147	ART/227CP
148	ART/228CP
149	ART/229CP
150	ART/230CI
151	ART/231CP
152	ART/232CP
153	ART/233CP

No.	Project Reference
154	ART/234CP
155	ART/235CI
156	ART/236CP
157	ART/237CP
158	ART/238CP
159	ART/239CP
160	ART/240CP
161	ART/241CP
162	ART/242CP
163	ART/243CP
164	ART/244CP
165	ART/245CP
166	ART/246CP
167	ART/247CP
168	ART/248CP
169	ART/249CP
170	ART/250CP
171	ART/251CP
172	ART/252CP
173	ART/253CP
174	ART/254CP
175	ART/255CI
176	ART/257CI
177	ART/258CP
178	ART/259CP
179	ART/260CP
180	ART/262CP
181	ART/263CP
182	ART/264CP
183	ART/265CP
184	ART/266CP
185	ART/267CP
186	ITP/033/13AP
187	ITP/036/13AI
188	ITP/041/13AI
189	ITP/009/14NI
190	ITP/010/14NI
191	ITP/011/14NP
192	ITP/012/14NP
193	ITP/014/14NP
194	ITP/015/14NI
195	ITP/017/14NP

No.	Project Reference
196	ITP/018/14NP
197	ITP/019/14AP
198	ITP/020/14AP
199	ITP/024/14TI
200	ITP/025/14TP
201	ITP/026/14NP
202	ITP/029/14NP
203	ITP/031/14NP
204	ITP/032/14TP
205	ITP/034/14NI
206	ITP/035/14NP
207	ITP/036/14NP
208	ITP/037/14NP
209	ITP/038/14NI
210	ITP/039/14NI
211	ITP/040/14NI
212	ITP/041/14NP
213	ITP/042/14NI
214	ITP/045/14LP
215	ITP/046/14TP
216	ITP/047/14TP
217	ITP/048/14LP
218	ITP/049/14TI
219	ITP/051/14AP
220	ITP/054/14AI
221	ITP/055/14LP
222	ITP/056/14TI
223	ITP/058/14NI
224	ITP/059/14LI
225	ITP/060/14NI
226	ITP/062/14NI
227	ITP/063/14NI
228	ITP/064/14TP
229	ITP/065/14TP
230	ITP/066/14LP
231	ITP/067/14TP
232	ITP/068/14TI
233	ITP/069/14NP
234	ITP/070/14NP
235	ITP/071/14NP
236	ITP/072/14NI
237	ITP/075/14AP

No.	Project Reference
238	ITP/001/15NP
239	ITP/002/15NP
240	ITP/003/15NP
241	ITP/004/15NP
242	ITP/005/15NP
243	ITP/006/15NI
244	ITP/007/15NI
245	ITP/008/15NI
246	ITP/010/15NI
247	ITP/011/15NI
248	ITP/012/15NP
249	ITP/013/15AI
250	ITP/014/15TI
251	ITP/015/15LP
252	ITP/016/15LP
253	ITP/017/15NP
254	ITP/018/15TP
255	ITP/019/15NP
256	ITP/021/15NI
257	ITP/023/15NP
258	ITP/024/15AI
259	ITP/027/15AI
260	ITP/028/15AP
261	ITP/029/15NI
262	ITP/030/15NI
263	ITP/031/15NI
264	ITP/033/15NP
265	ITP/035/15AP
266	ITP/037/15TP
267	ITP/038/15NP
268	ITP/039/15NP
269	ITP/040/15NI
270	ITP/041/15NP
271	ITP/042/15NI
272	ITP/044/15LP
273	ITP/045/15TP
274	ITP/046/15LP
275	ITP/047/15LP
276	ITP/048/15LP
277	ITP/049/15LP
278	ITP/050/15NP
279	ITP/051/15NP

No.	Project Reference
280	ITP/052/15NI
281	ITP/053/15NI
282	ITP/054/15NI
283	ITP/055/15NI
284	ITP/056/15NI
285	ITP/058/15NI
286	ITP/059/15NI
287	ITP/061/15NI
288	ITP/063/15NI
289	ITP/064/15AI
290	ITP/066/15AI
291	ITP/071/15NI
292	ITP/073/15NI
293	ITP/075/15NI
294	ITP/076/15NP
295	ITP/077/15NP
296	ITP/078/15NP
297	ITP/079/15NI
298	ITP/080/15NI
299	ITP/081/15NI
300	ITP/082/15LP
301	ITP/083/15LP
302	ITP/084/15TP
303	ITP/085/15TI
304	ITP/086/15AP
305	ITP/090/15AP
306	ITP/091/15AP
307	ITP/094/15AP
308	ITP/097/15TI
309	ITP/098/15NI
310	ITP/099/15NI
311	ITP/100/15NI
312	ITP/101/15NI
313	ITP/102/15TP
314	ITP/103/15TP
315	ITP/104/15TP
316	ITP/105/15TP
317	ITP/106/15TI
318	ITP/107/15TI
319	ITP/108/15TI
320	ITP/109/15TP
321	ITP/110/15LI

No.	Project Reference
322	ITP/111/15TP
323	ITP/112/15TP
324	ITP/001/16LI
325	ITP/002/16LP
326	ITP/003/16LP
327	ITP/004/16LP
328	ITP/005/16NI
329	ITP/007/16NP
330	ITP/008/16NI
331	ITP/010/16NP
332	ITP/011/16NI
333	ITP/013/16AI
334	ITP/015/16AI
335	ITP/016/16NP
336	ITP/017/16NI
337	ITP/018/16NI
338	ITP/019/16NI
339	ITP/020/16NI
340	ITP/021/16NI
341	ITP/022/16NI
342	ITP/023/16TI
343	ITP/024/16LP
344	ITP/026/16AP
345	ITP/030/16AP
346	ITP/033/16NI
347	ITP/034/16TP
348	ITP/035/16NI
349	ITP/036/16NI
350	ITP/037/16NI
351	ITP/038/16NP
352	ITP/039/16TP
353	ITP/040/16NI
354	ITP/041/16NI
355	ITP/042/16NI
356	ITP/043/16NP
357	ITP/044/16NI
358	ITP/045/16NI
359	ITP/047/16NP
360	ITP/048/16NI
361	ITP/049/16NP
362	ITP/050/16NI
363	ITP/051/16LI

No.	Project Reference
364	ITP/052/16TP
365	ITP/053/16LP
366	ITP/054/16TP
367	ITP/055/16AI
368	ITP/057/16NI
369	ITP/058/16NP
370	ITP/059/16NI
371	ITP/060/16NP
372	ITP/061/16LP
373	ITP/062/16LP
374	ITP/063/16NI
375	ITP/064/16NI
376	ITP/065/16NI
377	ITP/066/16NP
378	ITP/067/16TP
379	ITP/068/16NI
380	ITP/069/16AP
381	ITP/071/16AP
382	ITP/072/16AP
383	ITP/076/16LP
384	ITP/077/16TP
385	ITP/078/16NI
386	ITP/079/16LP
387	ITP/080/16NI
388	ITP/081/16NI
389	ITP/082/16NI
390	ITP/083/16LI
391	ITP/084/16NP
392	ITP/085/16NP
393	ITP/086/16NI
394	ITP/087/16NI
395	ITP/088/16NI
396	ITP/089/16TP
397	ITP/090/16TP
398	ITP/091/16TI
399	ITP/092/16TP
400	ITP/093/16AI
401	ITP/002/17TI
402	ITP/003/17LP
403	ITP/006/17NP
404	ITP/007/17NP
405	ITP/008/17NI

No.	Project Reference
406	ITP/009/17NP
407	ITP/010/17NP
408	ITP/011/17LI
409	ITP/014/17NP
410	ITP/016/17NI
411	ITP/017/17NP
412	ITP/018/17LP
413	ITP/019/17LP
414	ITP/020/17TP
415	ITP/021/17TI
416	ITP/022/17LP
417	ITP/023/17AP
418	ITP/024/17LP
419	ITP/025/17TP
420	ITP/026/17TP
421	ITP/027/17NI
422	ITP/028/17NI
423	ITP/029/17LP
424	ITP/030/17LP
425	ITP/032/17NI
426	ITP/033/17NP
427	ITP/037/17AP
428	ITP/038/17AP
429	ITP/038/17LI
430	ITP/039/17NI
431	ITP/040/17NP
432	ITP/041/17NI
433	ITP/042/17LI
434	ITP/043/17NI
435	ITP/044/17NP
436	ITP/046/17NI
437	ITP/047/17NI
438	ITP/048/17NI
439	ITP/049/17NI
440	ITP/050/17NI
441	ITP/051/17NP
442	ITP/053/17TI
443	ITP/054/17LP
444	ITP/055/17LP
445	ITP/056/17TP
446	ITP/057/17LP
447	ITP/058/17LP

No.	Project Reference
448	ITP/059/17NP
449	ITP/060/17NI
450	ITP/061/17NI
451	ITP/062/17NI
452	ITP/068/17NI
453	ITP/069/17LP
454	ITP/070/17LP
455	ITP/071/17TP
456	ITP/072/17NI
457	ITP/073/17NI
458	ITP/074/17NP
459	ITP/075/17NP
460	ITP/077/17NI
461	ITP/078/17NP
462	ITP/079/17NP
463	ITP/080/17NI
464	ITP/081/17NP
465	ITP/082/17TP
466	ITP/083/17TI
467	ITP/085/17TP
468	ITP/086/17TP
469	ITP/087/17TP
470	ITP/088/17TP
471	ITP/089/17TP
472	ITP/001/18TP
473	ITP/002/18NI
474	ITP/003/18NI
475	ITP/004/18NI
476	ITP/005/18NI
477	ITP/006/18NI
478	ITP/007/18NP
479	ITP/008/18NI
480	ITP/009/18NI
481	ITP/010/18NI
482	ITP/011/18NI
483	ITP/012/18NI
484	ITP/013/18LP
485	ITP/014/18LP
486	ITP/015/18TP
487	ITP/016/18AI
488	ITP/017/18AI
489	ITP/018/18AP

No.	Project Reference
490	ITP/019/18TP
491	ITP/020/18LP
492	ITP/024/18LP
493	ITP/025/18NP
494	ITP/027/18NP
495	ITP/028/18NP
496	ITP/030/18NP
497	ITP/031/18NP
498	ITP/032/18NI
499	ITP/033/18NP
500	ITP/034/18NP
501	ITP/035/18TI
502	ITP/037/18NP
503	ITP/038/18NI
504	ITP/039/18NP
505	ITP/040/18NI
506	ITP/041/18NI
507	ITP/042/18LP
508	ITP/043/18NI
509	ITP/044/18NI
510	ITP/045/18NI
511	ITP/046/18NI
512	ITP/047/18NI
513	ITP/048/18TP
514	ITP/049/18TP
515	ITP/050/18NP
516	ITP/051/18AP
517	ITP/052/18TI
518	ITP/053/18AP
519	ITP/054/18TP
520	ITP/055/18LP
521	ITP/056/18AP
522	ITP/057/18AI
523	ITP/058/18TP
524	ITP/059/18NP
525	ITP/060/18NI
526	ITP/061/18TP
527	ITP/062/18NI
528	ITP/063/18NI
529	ITP/064/18AI
530	ITP/065/18NI
531	ITP/066/18TI

No.	Project Reference
532	ITP/067/18TP
533	ITP/068/18LP
534	ITP/069/18NP
535	ITP/073/18NI
536	ITP/074/18NI
537	ITP/075/18AI
538	ITP/077/18AP
539	ITP/078/18LP
540	ITP/079/18LP
541	ITP/080/18TP
542	ITP/082/18NP
543	ITP/084/18NP
544	ITP/087/18LI
545	ITP/088/18NI
546	ITP/089/18NI
547	ITP/090/18NI
548	ITP/091/18NI
549	ITP/092/18NI
550	ITP/093/18NP
551	ITP/094/18NI
552	ITP/095/18NI
553	ITP/096/18TP
554	ITS/131/13FX
555	ITS/136/13FP
556	ITS/149/13FX
557	ITS/185/13FX
558	ITS/191/13FX
559	ITS/251/13FX
560	ITS/252/13FP
561	ITS/306/13FX
562	ITS/324/13FP
563	ITS/026/14FP
564	ITS/061/14FP
565	ITS/063/14FX
566	ITS/081/14FP
567	ITS/100/14FP
568	ITS/130/14FP
569	ITS/139/14FX
570	ITS/141/14FX
571	ITS/143/14FP
572	ITS/148/14FP
573	ITS/149/14FP

No.	Project Reference
574	ITS/160/14FP
575	ITS/164/14FX
576	ITS/174/14FX
577	ITS/182/14FP
578	ITS/186/14FX
579	ITS/192/14FP
580	ITS/195/14FP
581	ITS/248/14FP
582	ITS/254/14FX
583	ITS/268/14FX
584	ITS/271/14FX
585	ITS/284/14FP
586	ITS/285/14FX
587	ITS/289/14FX
588	ITS/290/14FP
589	ITS/293/14FP
590	ITS/331/14FX
591	ITS/337/14FX
592	ITS/362/14FP
593	ITS/363/14FX
594	ITS/365/14FP
595	ITS/366/14FP
596	ITS/369/14FP
597	ITS/007/15FP
598	ITS/036/15FX
599	ITS/038/15FP
600	ITS/073/15FP
601	ITS/078/15FX
602	ITS/087/15FP
603	ITS/103/15FX
604	ITS/112/15FP
605	ITS/113/15FP
606	ITS/121/15FX
607	ITS/155/15FP
608	ITS/170/15FP
609	ITS/171/15FP
610	ITS/173/15FX
611	ITS/181/15FP
612	ITS/188/15FP
613	ITS/195/15FP
614	ITS/205/15FP
615	ITS/208/15FP

No.	Project Reference
616	ITS/210/15FX
617	ITS/258/15FX
618	ITS/265/15FX
619	ITS/275/15FP
620	ITS/287/15FX
621	ITS/288/15FX
622	ITS/292/15FP
623	ITS/306/15FP
624	ITS/316/15FX
625	ITS/334/15FP
626	ITS/350/15FX
627	ITS/361/15FX
628	ITS/363/15FX
629	ITS/376/15FX
630	ITS/377/15FX
631	ITS/380/15FP
632	ITS/383/15FX
633	ITS/384/15FP
634	ITS/391/15FX
635	ITS/393/15FP
636	ITS/015/16FX
637	ITS/020/16FP
638	ITS/022/16FP
639	ITS/029/16FX
640	ITS/050/16FP
641	ITS/059/16FP
642	ITS/070/16FP
643	ITS/091/16FX
644	ITS/099/16FX
645	ITS/105/16FP
646	ITS/133/16FP
647	ITS/161/16FP
648	ITS/162/16FP
649	ITS/164/16FX
650	ITS/165/16FX
651	ITS/171/16FX
652	ITS/179/16FP
653	ITS/183/16FP
654	ITS/208/16FX
655	ITS/209/16FX
656	ITS/210/16FX
657	ITS/211/16FP

No.	Project Reference
658	ITS/212/16FP
659	ITS/215/16FP
660	ITS/227/16FX
661	ITS/251/16FX
662	ITS/260/16FX
663	ITS/261/16FX
664	ITS/264/16FX
665	ITS/265/16FX
666	ITS/273/16FP
667	ITS/274/16FX
668	ITS/275/16FX
669	ITS/306/16FX
670	ITS/319/16FP
671	ITS/337/16FP
672	ITS/369/16FP
673	ITS/373/16FP
674	ITS/376/16FP
675	ITS/394/16FX
676	ITS/397/16FX
677	ITS/406/16FP
678	ITS/410/16FP
679	ITS/423/16FX
680	ITS/425/16FX
681	ITS/429/16FX
682	ITS/443/16FX
683	ITS/445/16FP
684	ITS/447/16FP
685	ITS/448/16FP
686	ITS/459/16FP
687	ITS/002/17FP
688	ITS/015/17FX
689	ITS/018/17FP
690	ITS/053/17FX
691	ITS/066/17FP
692	ITS/077/17FP
693	ITS/079/17FX
694	ITS/106/17FX
695	ITS/133/17FX
696	ITS/177/17FP
697	ITS/191/17FP
698	ITS/197/17FP
699	ITS/198/17FX

No.	Project Reference
700	ITS/203/17FX
701	ITS/209/17FX
702	ITS/214/17FP
703	ITS/216/17FP
704	ITS/217/17FP
705	ITS/224/17FP
706	ITS/227/17FP
707	ITS/240/17FX
708	ITS/242/17FX
709	ITS/249/17FP
710	ITS/250/17FX
711	ITS/252/17FX
712	ITS/260/17FX
713	ITS/262/17FX
714	ITS/265/17FP
715	ITS/292/17FX
716	ITS/298/17FX
717	ITS/324/17FX
718	ITS/325/17FX
719	ITS/331/17FP
720	ITS/369/17FP
721	ITS/370/17FX
722	ITS/382/17FP
723	ITS/387/17FP
724	ITS/388/17FP
725	ITS/398/17FP
726	ITS/399/17FX
727	ITS/411/17FX
728	ITS/412/17FP
729	ITS/421/17FP
730	ITS/426/17FP
731	ITS/428/17FP
732	ITS/433/17FX
733	ITS/440/17FP
734	ITS/452/17FP
735	ITS/457/17FP
736	ITS/464/17FP
737	ITS/003/18FX
738	ITS/004/18FX
739	ITS/011/18FX
740	ITS/044/18FX
741	ITS/047/18FX

No.	Project Reference
742	ITS/065/18FP
743	ITS/073/18FP
744	ITS/075/18FP
745	ITS/076/18FP
746	ITS/087/18FP
747	ITS/098/18FP
748	ITS/099/18FX
749	ITS/105/18FP
750	ITS/122/18FP
751	ITS/141/18FX
752	ITS/156/18FP
753	ITS/162/18FP
754	ITS/173/18FP
755	ITS/178/18FP
756	ITS/184/18FX
757	ITS/205/18FX
758	ITS/206/18FX
759	ITS/208/18FX
760	ITS/213/18FX
761	ITS/214/18FP
762	ITS/292/18FP
763	ITS/187/13
764	ITS/194/13
765	ITS/218/13
766	ITS/223/13
767	ITS/226/13
768	ITS/350/13
769	ITS/004/14
770	ITS/015/14
771	ITS/023/14
772	ITS/029/14
773	ITS/032/14
774	ITS/036/14
775	ITS/037/14
776	ITS/041/14
777	ITS/043/14
778	ITS/044/14
779	ITS/048/14
780	ITS/050/14
781	ITS/056/14
782	ITS/058/14
783	ITS/065/14

No.	Project Reference
784	ITS/068/14
785	ITS/072/14
786	ITS/079/14
787	ITS/084/14
788	ITS/085/14
789	ITS/087/14
790	ITS/088/14
791	ITS/089/14
792	ITS/090/14
793	ITS/095/14
794	ITS/096/14
795	ITS/097/14
796	ITS/104/14
797	ITS/107/14
798	ITS/111/14
799	ITS/113/14
800	ITS/117/14
801	ITS/123/14
802	ITS/129/14
803	ITS/177/14
804	ITS/181/14
805	ITS/187/14
806	ITS/203/14
807	ITS/208/14
808	ITS/214/14
809	ITS/216/14
810	ITS/217/14
811	ITS/240/14
812	ITS/246/14
813	ITS/250/14
814	ITS/253/14
815	ITS/255/14
816	ITS/257/14
817	ITS/258/14
818	ITS/261/14
819	ITS/263/14
820	ITS/277/14
821	ITS/280/14
822	ITS/288/14
823	ITS/291/14
824	ITS/296/14
825	ITS/300/14

No.	Project Reference
826	ITS/312/14
827	ITS/315/14
828	ITS/318/14
829	ITS/319/14
830	ITS/320/14
831	ITS/321/14
832	ITS/323/14
833	ITS/324/14
834	ITS/328/14
835	ITS/329/14
836	ITS/342/14
837	ITS/343/14
838	ITS/344/14
839	ITS/346/14
840	ITS/348/14
841	ITS/352/14
842	ITS/356/14
843	ITS/357/14
844	ITS/359/14
845	ITS/368/14
846	ITS/370/14
847	ITS/380/14
848	ITS/381/14
849	ITS/014/15
850	ITS/017/15
851	ITS/018/15
852	ITS/019/15
853	ITS/021/15
854	ITS/022/15
855	ITS/028/15
856	ITS/039/15
857	ITS/042/15
858	ITS/050/15
859	ITS/051/15
860	ITS/052/15
861	ITS/057/15
862	ITS/059/15
863	ITS/066/15
864	ITS/070/15
865	ITS/083/15
866	ITS/116/15
867	ITS/131/15

No.	Project Reference
868	ITS/132/15
869	ITS/147/15
870	ITS/150/15
871	ITS/154/15
872	ITS/157/15
873	ITS/164/15
874	ITS/180/15
875	ITS/203/15
876	ITS/214/15
877	ITS/216/15
878	ITS/227/15
879	ITS/231/15
880	ITS/236/15
881	ITS/252/15
882	ITS/253/15
883	ITS/255/15
884	ITS/257/15
885	ITS/267/15
886	ITS/271/15
887	ITS/276/15
888	ITS/280/15
889	ITS/286/15
890	ITS/290/15
891	ITS/295/15
892	ITS/296/15
893	ITS/300/15
894	ITS/307/15
895	ITS/308/15
896	ITS/321/15
897	ITS/338/15
898	ITS/343/15
899	ITS/344/15
900	ITS/360/15
901	ITS/366/15
902	ITS/369/15
903	ITS/371/15
904	ITS/381/15
905	ITS/382/15
906	ITS/388/15
907	ITS/389/15
908	ITS/394/15
909	ITS/011/16

No.	Project Reference
910	ITS/013/16
911	ITS/014/16
912	ITS/024/16
913	ITS/025/16
914	ITS/041/16
915	ITS/047/16
916	ITS/048/16
917	ITS/053/16
918	ITS/055/16
919	ITS/057/16
920	ITS/069/16
921	ITS/071/16
922	ITS/072/16
923	ITS/073/16
924	ITS/107/16
925	ITS/126/16
926	ITS/137/16
927	ITS/140/16
928	ITS/141/16
929	ITS/149/16
930	ITS/151/16
931	ITS/157/16
932	ITS/163/16
933	ITS/172/16
934	ITS/175/16
935	ITS/180/16
936	ITS/186/16
937	ITS/191/16
938	ITS/219/16
939	ITS/222/16
940	ITS/224/16
941	ITS/226/16
942	ITS/234/16
943	ITS/243/16
944	ITS/248/16
945	ITS/254/16
946	ITS/279/16
947	ITS/297/16
948	ITS/304/16
949	ITS/305/16
950	ITS/345/16
951	ITS/350/16

No.	Project Reference
952	ITS/353/16
953	ITS/357/16
954	ITS/360/16
955	ITS/367/16
956	ITS/370/16
957	ITS/371/16
958	ITS/387/16
959	ITS/391/16
960	ITS/415/16
961	ITS/417/16
962	ITS/422/16
963	ITS/428/16
964	ITS/432/16
965	ITS/469/16
966	ITS/470/16
967	ITS/001/17
968	ITS/009/17
969	ITS/026/17
970	ITS/029/17
971	ITS/031/17
972	ITS/044/17
973	ITS/051/17
974	ITS/055/17
975	ITS/056/17
976	ITS/067/17
977	ITS/074/17
978	ITS/076/17
979	ITS/082/17
980	ITS/088/17
981	ITS/089/17
982	ITS/092/17
983	ITS/124/17
984	ITS/131/17
985	ITS/136/17

No.	Project Reference
986	ITS/138/17
987	ITS/143/17
988	ITS/148/17
989	ITS/151/17
990	ITS/168/17
991	ITS/170/17
992	ITS/193/17
993	ITS/238/17
994	ITS/246/17
995	ITS/254/17
996	ITS/261/17
997	ITS/267/17
998	ITS/276/17
999	ITS/281/17
1000	ITS/287/17
1001	ITS/297/17
1002	ITS/306/17
1003	ITS/319/17
1004	ITS/329/17
1005	ITS/342/17
1006	ITS/356/17
1007	ITS/359/17
1008	ITS/372/17
1009	ITS/385/17
1010	ITS/389/17
1011	ITS/394/17
1012	ITS/401/17
1013	ITS/402/17
1014	ITS/424/17
1015	ITS/427/17
1016	ITS/453/17
1017	ITS/006/18
1018	ITS/016/18
1019	ITS/022/18

No.	Project Reference
1020	ITS/026/18
1021	ITS/031/18
1022	ITS/033/18
1023	ITS/035/18
1024	ITS/051/18
1025	ITS/057/18
1026	ITS/060/18
1027	ITS/061/18
1028	ITS/063/18
1029	ITS/067/18
1030	ITS/068/18
1031	ITS/081/18
1032	ITS/082/18
1033	ITS/085/18
1034	ITS/090/18
1035	ITS/091/18
1036	ITS/096/18
1037	ITS/115/18
1038	ITS/130/18
1039	ITS/133/18
1040	ITS/140/18
1041	ITS/152/18
1042	ITS/161/18
1043	ITS/174/18
1044	ITS/176/18
1045	ITS/195/18
1046	ITS/200/18
1047	ITS/201/18
1048	ITS/204/18
1049	ITS/215/18
1050	ITS/388/18
1051	ITS/442/18
1052	ITS/460/18

TCFS – supports collaborative research projects between Hong Kong and Guangdong Province/Shenzhen.

No.	Project Reference
1	GHP/001/13AZ
2	GHP/002/13SZ
3	GHP/007/13SZ
4	GHP/012/13SZ
5	GHP/014/13SZ
6	GHP/018/13SZ
7	GHP/020/13
8	GHP/022/13SZ
9	GHP/025/13SZ
10	GHP/030/13
11	GHP/031/13SZ
12	GHP/038/13SZ
13	GHP/006/14SZ
14	GHP/007/14SZ
15	GHP/009/14SZ
16	GHP/010/14SZ
17	GHP/015/14SZ
18	GHP/016/14SZ
19	GHP/017/14SZ
20	GHP/028/14SZ

No.	Project Reference
21	GHP/029/14SZ
22	GHP/041/14
23	GHP/043/14SZ
24	GHP/048/14
25	GHP/050/14GD
26	GHP/053/14
27	GHP/055/14SZ
28	GHP/057/14AP
29	GHP/003/16GD
30	GHP/004/16GD
31	GHP/012/16GD
32	GHP/024/16GD
33	GHP/025/16GD
34	GHP/030/16GD
35	GHP/034/16GD
36	GHP/007/17GD
37	GHP/008/17GD
38	GHP/011/17SZ
39	GHP/021/17SZ
40	GHP/022/17GD

No.	Project Reference
41	GHP/025/17SZ
42	GHP/033/17AP
43	GHP/036/17SZ
44	GHP/040/17GD
45	GHP/042/17GD
46	GHP/046/17GD
47	GHP/055/17
48	GHP/057/17SZ
49	GHP/071/17SZ
50	GHP/076/17GD
51	GHP/079/17SZ
52	GHX/003/13SZ
53	GHX/002/14SZ
54	GHX/001/16GD
55	GHX/002/17GD
56	GHX/004/17
57	GHX/005/17SZ
58	GHX/017/18

UICP – provides dollar-for-dollar matching fund for R&D jointly undertaken by private companies and local universities.

No.	Project Reference
1	UIM/254
2	UIM/256
3	UIM/257
4	UIM/258
5	UIM/260
6	UIM/262
7	UIM/263
8	UIM/264
9	UIM/265
10	UIM/268
11	UIM/269
12	UIM/270
13	UIM/271
14	UIM/272
15	UIM/273
16	UIM/274
17	UIM/275
18	UIM/276
19	UIM/277
20	UIM/278
21	UIM/279
22	UIM/280
23	UIM/283
24	UIM/285
25	UIM/286
26	UIM/287
27	UIM/288
28	UIM/289
29	UIM/290
30	UIM/291
31	UIM/292
32	UIM/293
33	UIM/295
34	UIM/296
35	UIM/297
36	UIM/298
37	UIM/299
38	UIM/300
39	UIM/301

No.	Project Reference
40	UIM/302
41	UIM/303
42	UIM/304
43	UIM/305
44	UIM/306
45	UIM/307
46	UIM/308
47	UIM/309
48	UIM/310
49	UIM/311
50	UIM/312
51	UIM/313
52	UIM/314
53	UIM/315
54	UIM/316
55	UIM/317
56	UIM/318
57	UIM/320
58	UIM/321
59	UIM/322
60	UIM/323
61	UIM/324
62	UIM/326
63	UIM/327
64	UIM/328
65	UIM/329
66	UIM/330
67	UIM/331
68	UIM/332
69	UIM/333
70	UIM/334
71	UIM/335
72	UIM/337
73	UIM/338
74	UIM/340
75	UIM/343
76	UIM/344
77	UIM/345
78	UIM/349

No.	Project Reference
79	UIM/350
80	UIM/351
81	UIM/353
82	UIM/354
83	UIM/355
84	UIM/357
85	UIM/359
86	UIM/362
87	UIM/363
88	UIM/365
89	UIM/368
90	UIM/369
91	UIT/120
92	UIT/124
93	UIT/125
94	UIT/126
95	UIT/128
96	UIT/130
97	UIT/131
98	UIT/132
99	UIT/133
100	UIT/134
101	UIT/135
102	UIT/137
103	UIT/138
104	UIT/139
105	UIT/140

SERAP – operates as a matching grant for SMEs. SERAP has been replaced by ESS since April 2015.

No.	Project Reference
1	E/P096/13
2	E/P097/13
3	E/P100/13
4	E/P103/13
5	E/P106/13
6	E/P108/13
7	E/P111/13
8	E/P003/14
9	E/P004/14
10	E/P007/14
11	E/P015/14
12	E/P021/14
13	E/P024/14
14	E/P029/14
15	E/P031/14
16	E/P046/14
17	E/P047/14
18	E/P051/14
19	E/P055/14
20	E/P064/14
21	E/P067/14
22	E/P069/14
23	E/P071/14
24	E/P081/14
25	E/P082/14
26	E/P087/14
27	E/P003/15
28	E/P021/15
29	E/P030/15

ESS – provides dollar-for-dollar matching fund for private companies to carry out R&D projects.

No.	Project Reference
1	B/E001/15
2	B/E007/15
3	B/E011/15
4	B/E019/15
5	B/E038/15
6	B/E008/16
7	B/E017/16
8	B/E032/16
9	B/E033/16
10	B/E034/16
11	B/E040/16
12	B/E042/16
13	B/E048/16
14	B/E051/16
15	B/E053/16
16	B/E005/17
17	B/E006/17
18	B/E009/17
19	B/E014/17
20	B/E016/17
21	B/E019/17
22	B/E022/17
23	B/E023/17
24	B/E028/17
25	B/E001/18
26	B/E004/18
27	S/E004/15
28	S/E035/15
29	S/E039/15
30	S/E040/15
31	S/E043/15
32	S/E049/15
33	S/E052/15
34	S/E056/15
35	S/E068/15
36	S/E085/15
37	S/E087/15
38	S/E096/15

No.	Project Reference
39	S/E102/15
40	S/E005/16
41	S/E009/16
42	S/E012/16
43	S/E014/16
44	S/E017/16
45	S/E026/16
46	S/E050/16
47	S/E054/16
48	S/E062/16
49	S/E068/16
50	S/E081/16
51	S/E084/16
52	S/E102/16
53	S/E103/16
54	S/E012/17
55	S/E014/17
56	S/E018/17
57	S/E019/17
58	S/E024/17
59	S/E029/17
60	S/E037/17
61	S/E038/17
62	S/E042/17
63	S/E045/17
64	S/E053/17
65	S/E061/17
66	S/E065/17
67	S/E078/17

MRP – supports midstream research projects undertaken by universities funded by the University Grants Committee.

No.	Project Reference
1	MRP/011/17X
2	MRP/020/17
3	MRP/037/17X
4	MRP/056/17X
5	MRP/066/17X
6	MRP/072/17X
7	MRP/092/17X
8	MRP/101/17X
9	MRP/001/18X
10	MRP/008/18X
11	MRP/010/18
12	MRP/011/18
13	MRP/012/18X
14	MRP/015/18
15	MRP/018/18X
16	MRP/022/18X
17	MRP/026/18
18	MRP/029/18
19	MRP/036/18X
20	MRP/037/18
21	MRP/039/18X
22	MRP/040/18X
23	MRP/042/18X
24	MRP/053/18X

- End -

CONTROLLING OFFICER'S REPLY

ITB152

(Question Serial No. 1611)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): ()

Programme: Not Specified

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Have the Innovation and Technology Bureau, the Hong Kong Science Park and the Innovation and Technology Fund (ITF) regularly disseminated, through the internet or other channels, information of the newly funded research and development (R&D) projects and latest operations of the 2 research clusters, i.e. Health@InnoHK and AIR@InnoHK, and the ITF to the public and the overseas institutions and universities that intend to participate in R&D in Hong Kong, so as to facilitate the public as well as the Mainland and overseas research institutions and universities' understanding on the use of public funds allocated for supporting R&D?

Asked by: Hon TSE Wai-chun, Paul (LegCo internal reference no.: 49)

Reply:

The Innovation and Technology Commission provides information of InnoHK to different sectors through its website (<http://www.itc.gov.hk>), and from time to time meets with interested universities and research institutions to introduce the research clusters. Meanwhile, we disseminate the latest information of the Innovation and Technology Fund (ITF), summary of funded projects (including the title and funding amount, etc.) and other relevant information on the ITF website (<http://www.itf.gov.hk>). We also promote various funding schemes under the ITF through channels like briefing sessions, etc.

- End -

CONTROLLING OFFICER'S REPLY**ITB153****(Question Serial No. 1624)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: Not Specified

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please provide a detailed list or channels for the public to enquire about the titles, research scope and funding amount of various programmes funded so far by the Government's injection of \$10 billion into the Innovation and Technology Fund last year.

Asked by: Hon TSE Wai-chun, Paul (LegCo internal reference no.: 54)

Reply:

The Finance Committee of the Legislative Council approved in July 2018 an injection of \$10 billion into the Innovation and Technology Fund (ITF) for the continued implementation of various funding schemes and the launch of new programmes under the ITF. The remaining uncommitted balance of the ITF before the injection had already been depleted in end 2018.

Currently, there are 15 funding schemes under the ITF (including the Midstream Research Programme for Universities (MRP) and the Innovation and Technology Venture Fund (ITVF), which are allocated with dedicated provisions). The number of projects approved and amount of funding approved under each funding scheme in 2018-19 (as at end January 2019) are detailed as follows:

	Funding scheme	Number of projects approved	Amount of funding
<i>Supporting Research and Development</i>			
1.	Innovation and Technology Support Programme (ITSP)	185	About \$521 million

	Funding scheme	Number of projects approved	Amount of funding
2.	Guangdong-Hong Kong Technology Cooperation Funding Scheme (TCFS)	1 ²	About \$1 million
3.	University-Industry Collaboration Programme (UICP)	18	About \$25 million
4.	Enterprise Support Scheme (ESS)	37	About \$135 million
5.	Research and Development Cash Rebate Scheme	274	About \$109 million
6.	MRP	16	About \$83 million
<i>Facilitating Technology Adoption</i>			
7.	Public Sector Trial Scheme (PSTS)	29	About \$49 million
8.	Technology Voucher Programme (TVP)	382	About \$56 million
<i>Nurturing Technology Talent</i>			
9.	Researcher Programme	632 researchers	About \$178 million
10.	Postdoctoral Hub	360 postdoctoral talents	About \$180 million
11.	Reindustrialisation and Technology Training Programme	349 staff of local enterprises	About \$2.35 million
<i>Supporting Technology Start-ups</i>			
12.	Technology Start-up Support Scheme for Universities (TSSSU)	64	About \$24 million
13.	ITVF	The Innovation and Technology Commission is considering the investment proposals received.	
<i>Promoting an Innovation and Technology Culture</i>			
14.	General Support Programme (GSP)	20	About \$29 million
15.	Patent Application Grant	167	About \$42 million

The summaries of projects approved (including the titles and funding amounts, etc.) under the ITSP, TCFS, UICP, ESS, MRP, PSTS, the Researcher Programme, the Postdoctoral Hub, and GSP are available on the ITF website: https://www.itf.gov.hk/1-eng/prj_search_index.asp. The summary of projects approved (including the titles and funding amounts, etc.) under the TVP is available on the following website: https://www.itf.gov.hk/1-eng/TVP_ApprovedPrj.asp. The information of TSSSU-funded start-ups and the amount of funding approved are listed in the TSSSU Directory on the ITF website: https://www.itf.gov.hk/1-eng/TSSSU_directory.asp.

- End -

² As the applications under Category C (i.e. projects to be jointly solicited, vetted and funded by Guangdong/Shenzhen and Hong Kong) of the TCFS in 2018 are still subject to vetting by the Mainland side, so far only 1 application under Category A (i.e. projects to be solicited, vetted and funded solely by Hong Kong) has been approved.

CONTROLLING OFFICER'S REPLY

ITB154

(Question Serial No. 0472)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in paragraph 84 of the Budget Speech that \$2 billion will be injected for launching a Re-industrialisation Funding Scheme to subsidise manufacturers on a matching basis to help them set up smart production lines in Hong Kong. In this connection, what is the specific form of funding support for this \$2 billion? Will it be in the form of seed capital, i.e. the manufacturers will be subsidised to set up smart production lines with investment returns from the \$2 billion? Or, will the \$2 billion be entirely spent on subsidising manufacturers to set up smart production lines?

Asked by: Hon WONG Ting-kwong (LegCo internal reference no.: 1)

Reply:

The Government plans to inject \$2 billion into the Innovation and Technology Fund for launching a Re-industrialisation Funding Scheme (the Scheme) to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong, with a view to expediting the realisation of "re-industrialisation". We are formulating the operational details of the Scheme, including the eligibility criteria, the funding scope, mode and amount, as well as the vetting mechanism, etc. in consultation with the industries. We will consult the Legislative Council (LegCo) Panel on Commerce and Industry on the Scheme in May 2019 before seeking funding approval from the LegCo Finance Committee, with an aim to launch the Scheme in the second half of this year.

Based on our current conception, the Scheme will not be operated in the form of seed capital. We expect that the vast majority of the \$2 billion will be directly spent on subsidising manufacturers to set up smart production lines.

- End -

CONTROLLING OFFICER'S REPLY

ITB155

(Question Serial No. 0473)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in paragraph 84 of the Budget that \$2 billion will be deployed for subsidising manufacturers on a matching basis to help them set up smart production lines in Hong Kong. In this connection, what are the detailed eligibility criteria for this \$2 billion? What is the maximum amount of funding for each manufacturer? How many manufacturers can be subsidised under the scheme at most?

Asked by: Hon WONG Ting-kwong (LegCo internal reference no.: 2)

Reply:

The Government plans to inject \$2 billion into the Innovation and Technology Fund for launching a Re-industrialisation Funding Scheme (the Scheme) to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong, with a view to expediting the realisation of "re-industrialisation". We are formulating the operational details of the Scheme, including the eligibility criteria, the funding scope, mode and amount, as well as the vetting mechanism, etc. in consultation with the industries. We will consult the Legislative Council (LegCo) Panel on Commerce and Industry on the Scheme in May 2019 before seeking funding approval from the LegCo Finance Committee, with an aim to launch the Scheme in the second half of this year.

- End -

CONTROLLING OFFICER'S REPLY**ITB156****(Question Serial No. 0567)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): ()

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please list the respective numbers of applicants and successful applicants under the Technology Talent Admission Scheme (TechTAS) since its launch, and the successful applicants' information such as the countries or regions they come from, their academic qualifications, occupations, job positions and remunerations, etc. What is the number of persons to be admitted to Hong Kong under the TechTAS in the coming year as estimated by the Government?

Asked by: Hon WONG Ting-kwong (LegCo internal reference no.: 44)

Reply:

The Technology Talent Admission Scheme (TechTAS) was launched in June 2018 to provide a fast-track arrangement for eligible technology companies/institutes to admit technology talent to conduct research and development work in Hong Kong. As at end-February 2019, a total of 226 quota applications were received by the Innovation and Technology Commission, among which 225 quotas have been allotted. A total of 50 applications of visa/entry permit were received by the Immigration Department, of which 40 applications have been approved. The statistics on the numbers of the non-local persons approved for entry under the TechTAS by their respective regions, academic qualifications, technology areas and monthly remunerations are as follows:

Region	Number of non-local persons approved for entry under TechTAS
Mainland China	29
Taiwan	2
Southeast Asia	5
Others	4
Total	40

Academic qualification	Number of non-local persons approved for entry under TechTAS
Doctoral degree	13
Master's degree	14
Bachelor's degree or equivalent	12
Others	1
Total	40

Technology area	Number of non-local persons approved for entry under TechTAS
Financial technologies	13
Material science	9
Artificial intelligence	6
Data analytics	4
Cybersecurity	3
Robotics	3
Biotechnology	2
Total	40

Monthly Remuneration	Number of non-local persons approved for entry under TechTAS
\$20,000 to \$39,999	20
\$40,000 to \$79,999	16
\$80,000 or above	4
Total	40

We do not have information on the job positions of the above non-local persons.

Given the changes in the global economic environment, quite a number of technology companies have become increasingly cautious on business development and recruitment. They may consider submitting quota applications only at a later time. We will keep a close watch on the implementation of the TechTAS and review the implementation details in the first half of this year, in the light of Hong Kong's technological development.

- End -

CONTROLLING OFFICER'S REPLY

ITB157

(Question Serial No. 0611)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): ()

Programme: (1) Support for Research and Development, (2) Promotion of Technological Entrepreneurship

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The sector attaches importance to industrialisation of scientific research results. It is mentioned in the Budget that in respect of applied research and development (R&D), funding for Technology Transfer Offices of designated universities, the Technology Start-up Support Scheme for Universities, State Key Laboratories and Hong Kong Branches of the Chinese National Engineering Research Centre will be doubled. An additional sum of not less than \$800 million will be provided over 5 years to support more R&D work and the realisation of R&D results.

How will the relevant provision be allocated? How will the scientific research and R&D results be industrialised in a more effective manner?

Asked by: Hon WONG Ting-kwong (LegCo internal reference no.: 4)

Reply:

The Special Administrative Region Government is determined to promote the development of local innovation and technology (I&T) to create a vibrant I&T ecosystem, enhance Hong Kong's competitiveness and improve the quality of life of our people. To unleash our strengths in scientific research and foster technology transfer as well as realisation of research and development (R&D) results, we will, starting from 2019-20, double the funding through the Innovation and Technology Fund as follows –

- (a) to increase the maximum annual funding for each State Key Laboratory (SKL) and Hong Kong Branch of Chinese National Engineering Research Centre (CNERC) from the existing \$5 million to \$10 million;
- (b) to increase the maximum annual funding for the Technology Transfer Office (TTO) of each designated university from the existing \$4 million to \$8 million; and
- (c) to increase the maximum annual funding for each of the 6 local universities under the Technology Start-up Support Scheme for Universities (TSSSU) from the existing \$4 million to \$8 million.

Over the 5 years starting from 2019-20, the total amount of additional provision for the above funding arrangements will not be less than \$800 million. The breakdown of the additional provision is as follows –

Funded institutions	Number of funded institutions	Amount of annual additional provision for each funded institution (\$million)	Total amount of annual additional provision for the related funding arrangements (\$million)	Total amount of additional provision for the related funding arrangements in 5 years (\$million)
SKLs	16	5	80	400
Hong Kong Branches of CNERCs	6	5	30	150
TTOs of designated universities (Note)	7	4	32	160
Universities under the TSSSU	6	4	24	120
			Total	830

Note: Starting from 2019-20, the number of designated universities increases from 6 to 7. Hence, the amount of annual additional provision for the related funding arrangement includes \$24 million for the original 6 universities and \$8 million for the newly added university.

After the increase of the relevant funding, the SKLs and Hong Kong Branches of CNERCs will have more resources for carrying out R&D activities and enjoy greater flexibility in allocating resources for the promotion of their R&D results, which will be conducive to the commercialisation of such results. And TTOs of the universities may make use of the additional resources to enhance their technology transfer capabilities and provide more effective support to the universities and their technology start-ups, so that innovative ideas and R&D results of scientific research talent at universities can be developed into new products or services that benefit our society.

Besides, after the increase of the funding, the TSSSU will be able to support more professors, students and graduates who are interested in pursuing a career in technology to set up technology start-ups, and create more jobs and training opportunities for the local I&T industry, thereby injecting new impetus to the commercialisation and industrialisation of R&D results continuously.

- End -

CONTROLLING OFFICER'S REPLY

ITB158

(Question Serial No. 0813)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (4) Infrastructural Support

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding “overseeing the setting up of technology clusters in the Hong Kong Science Park to foster collaboration with international science and research institutions”, it is stated in paragraph 72 of the Budget Speech that a number of internationally renowned universities (including Harvard University, Imperial College London, etc.) have expressed interest in joining the 2 clusters and collaborating with local universities:

1. Apart from internationally renowned universities, are there any local universities or other commercial or independent research institutions (including those inside or outside Hong Kong) that are interested in setting up their operations in the Science Park? Please provide a list of those interested;
2. What is the work progress of taking forward the 2 clusters? What is the estimated earliest time for the first batch of organisations to join the 2 clusters?
3. Given that over 50 applications have been received as revealed by the Innovation and Technology Commission recently, has the Government assessed the need to set up additional clusters on other sites reserved for innovation and technology uses so that more research institutions with strong capabilities can establish their presence in Hong Kong? If yes, what are the details?

Asked by: Hon WU Chi-wai (LegCo internal reference no.: 6)

Reply:

The requested information is provided below:

- (1) Since the announcement of the InnoHK initiative, 47 proposals have been received from a number of world leading universities and research institutions

from Hong Kong, overseas and the Mainland. As the vetting process is still underway, it is not appropriate for us to disclose the content of individual applications at this stage.

- (2) We envisage that the first batch of research institutions will start setting up their laboratories in the two clusters in the fourth quarter of 2019.
- (3) We will take into account the experience of implementing the two research clusters and factors such as global technology development in considering whether to establish more research clusters in the future.

- End -

CONTROLLING OFFICER'S REPLY

ITB159

(Question Serial No. 0817)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development, (2) Promotion of Technological Entrepreneurship, (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Since the establishment of the Innovation and Technology Bureau (ITB) in 2015, a significant amount of provision is earmarked in the Budget each year for ITB and the Innovation and Technology Commission (ITC) to promote the development of innovation and technology (I&T). The Chief Executive (CE) also mentioned in the 2017 Policy Address to double the Gross Domestic Expenditure on research and development (R&D) as a percentage of the Gross Domestic Product to about \$45 billion each year (i.e. an increase from 0.73% to 1.5%) within this term of the Government. However, according to "Hong Kong Innovation Activities Statistics 2017" of the Census and Statistics Department (C&SD), the growth in R&D expenditure in recent years was largely attributable to the government sector. For instance, the R&D expenditure in the government sector increased from \$658 million in 2014 to \$1,031 million in 2017.

1. What are the actual expenditure and year-on-year growth of each of the funding schemes provided by ITC since 2015? Of that, how much is counted towards the R&D expenditure in the government sector?
2. Has ITC compiled any statistics or conducted any studies on the effectiveness of each funding scheme and the overall funding in terms of further boosting R&D expenditure? For example, has any multiplier effect been created from which additional R&D expenditure in the business sector is driven with each dollar of the funding provided? If yes, what are the details? If no, will similar studies be conducted?
3. As capital expenditure such as acquisition of land as well as major improvements to land and buildings are included in the "capital expenditure for in-house R&D activities" in C&SD's statistics, do expenditures on the development of the Lok Ma Chau Loop, the Hong Kong Science Park Expansion Programme and the establishment of the 2 research clusters, etc. belong to R&D expenditure in the Government's statistics?

4. According to the latest projection of ITC or ITB, what are the respective R&D expenditures in the government and higher education sectors in 2019-20? What are the strategies for achieving the goal set by the CE?

Asked by: Hon WU Chi-wai (LegCo internal reference no.: 10)

Reply:

The required information is provided below:

- (1) Under the Innovation and Technology Fund (ITF) administered by the Innovation and Technology Commission, there are 15 funding programmes that support research and development (R&D) and non-R&D projects, with a view to promoting innovation and technology (I&T) development in Hong Kong. The expenditures and year-on-year growth under the ITF in the past 3 years are tabulated as follows:

	2015-16	2016-17	2017-18
\$ million	1,014	1,258 (+24%)	1,483 (+18%)

The Census and Statistics Department (C&SD) does not have the figures on the amount of the above funding that is counted towards the “R&D expenditure in the government sector” in its annual “Hong Kong Innovation Activities Statistics”.

- (2) A certain amount of industry contribution is required under various ITF funding programmes that support local R&D. For example, lead applicants of platform projects under the Innovation and Technology Support Programme are required to obtain industry sponsorship of at least 10% of the total project cost from at least 1 private company to demonstrate reasonable market interest; under the Partnership Research Programme which provides funding support for R&D projects undertaken by local universities/public research institutes in collaboration with local enterprises, the industry co-applicant should contribute at least 50% of the total project cost; the Enterprise Support Scheme (ESS) provides funding support of up to \$10 million for each approved project on a dollar-for-dollar matching basis for enterprises to conduct in-house R&D. As at end January 2019, 100 applications were supported under the ESS with a total ITF funding of about \$327 million, benefiting 89 private companies which contributed about \$387 million in return. This demonstrated that the provision of ITF funding support is conducive to encouraging private enterprises to invest their resources in R&D activities.
- (3) As various projects like the development of the Lok Ma Chau Loop, the Hong Kong Science Park (HKSP) Expansion Programme and the establishment of the research clusters are still at development or construction stages which do not involve any specific R&D activities, the Government’s capital expenditures concerned are not included in the statistics on R&D expenditure compiled by the C&SD.
- (4) We have not estimated the R&D expenditures in the government and higher education sectors in 2019-20. However, in order to achieve the goal to double the Gross Domestic Expenditure on R&D as a percentage of the Gross Domestic Product, the

Government has implemented a series of initiatives to gradually increase public R&D investment, at the same time encouraging private enterprises to conduct more R&D activities.

On public investment, there are various schemes under the ITF to finance projects that can contribute to I&T upgrading and development of industries in Hong Kong, encourage private enterprises to invest in R&D and applied technology, and nurture I&T talents for R&D. In July 2018, the Finance Committee of the Legislative Council approved an injection of \$10 billion into the ITF to support its continued operation. Besides, the Government has accepted the recommendations made by the Task Force on Review of Research Policy and Funding and will inject \$20 billion into the Research Endowment Fund to increase its total principal to \$46 billion, thereby substantially increasing the research funding for post-secondary institutions; and launch the Research Matching Grant Scheme to provide a total of \$3 billion matching grant in 3 years for local degree-awarding institutions, with a view to encouraging individuals and private organisations to provide R&D funding and donations for the higher education sector.

Meanwhile, the Government has allocated \$10 billion for setting up 2 research clusters at the HKSP to attract top local, Mainland and overseas research institutions to conduct more collaborative research in Hong Kong. A total of additional \$10.3 billion has also been allocated to the Hong Kong Science and Technology Parks Corporation (HKSTPC) and the Hong Kong Cyberport Development Holdings Limited to develop R&D-related facilities and enhance their incubation programmes and support for technology enterprises. These measures will induce further investment in R&D.

Besides, the Government has been actively promoting “re-industrialisation” to develop advanced manufacturing industries that are based on new technologies and smart production, with a view to driving R&D demands. The Government has proposed to launch a \$2 billion Re-industrialisation Funding Scheme to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong; and to provide an additional \$2 billion to the HKSTPC to develop manufacturing facilities required by dedicated advanced manufacturing in the industrial estates.

For the private sector, with a view to encouraging more enterprises to conduct R&D locally, we have amended the legislation to provide a two-tiered enhanced tax deduction regime for qualifying R&D expenditure incurred by enterprises on 1 April 2018 and thereafter. The deduction is 300% for the first \$2 million of qualifying R&D expenditure and 200% for the remaining amount. There is no cap on the amount of enhanced tax deduction.

- End -

CONTROLLING OFFICER'S REPLY

ITB160

(Question Serial No. 0818)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): ()

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is stated in the Brief Description of Programme (3): Planning for Innovation and Technology (I&T) Development that “the Innovation and Technology Commission (ITC) supports technology co-operation with the Mainland and overseas economies, and participates in relevant regional and international activities which help promote I&T”. However, the majority of ITC’s work during 2018-19 was associated with the Mainland, including “enhancing technology co-operation with the Mainland at the central, regional, provincial and municipal levels through various co-operation mechanisms”, “enhancing promotion at enterprise level through organising a “Hong Kong Pavilion” at the China Hi-Tech Fair 2018”, etc:

(1) What are the details of ITC’s “support for technology co-operation with the Mainland and overseas economies”? What are the respective percentages of the support for co-operation with the Mainland and overseas economies? Please list in tabular form the details on the projects participated in the past 3 years;

(2) What are the details of ITC’s “participation in relevant regional and international activities which help promote I&T”? Please list in tabular form the details on the regional or international activities participated in the past 3 years, including the names of the activities, their nature (e.g. seminar or exposition, etc.), venues, expenditures, attending officials, and any actual effectiveness achieved;

(3) What is the anticipated work of ITC on the aforesaid support and participation during 2019-20? Please list in tabular form the details such as the names of the projects, regions involved, estimated expenditures, etc.

Asked by: Hon WU Chi-wai (LegCo internal reference no.: 11)

Reply:

The required information is provided as follows:

- (1) The Innovation and Technology Commission (ITC) is committed to strengthening innovation and technology (I&T) collaboration with the Mainland and overseas economies.

On the Mainland side, we have been promoting technological collaboration with the Mainland at the central, provincial and municipal levels. To further enhance cooperation and exchanges in scientific research with the Mainland, the Hong Kong Special Administrative Region (HKSAR) Government signed key documents on promoting I&T collaboration between the two places in the past 3 years, including the “Arrangement on Enhancing Innovation and Technology Cooperation between the Mainland and Hong Kong” and the “Agreement on Commencing Jointly Funded Projects between the Ministry of Science and Technology and the Innovation and Technology Bureau of the Hong Kong Special Administrative Region Government” with the Ministry of Science and Technology; the “Co-operation Arrangement on Technology and Innovation Exchange between Guangdong and Hong Kong” with the Department of Science and Technology of Guangdong Province; and the “Memorandum of Understanding on Establishing Affiliated Institution by the Chinese Academy of Sciences in Hong Kong” with the Chinese Academy of Sciences, etc. In addition to continuing the implementation of the Guangdong-Hong Kong Technology Co-operation Funding Scheme with the Guangdong Province and Shenzhen, we also organised the Hong Kong Innovation and Technology Forum under the theme of “Collaborate, Complement, Co-create”; compiled the National Thirteenth Five-year Plan on Science, Technology and Innovation - Science and Technology Areas where Hong Kong Possesses a Competitive Edge; and facilitated the opening up of major national and Guangdong science and technology funding programmes for application by universities and research institutions in Hong Kong, and allowing the direct remittance of project funding to local units for their use.

Besides, we have been maintaining long-term and frequent exchanges and collaborative relationships with overseas economies. In the past 3 years, international research institutions have established their presence in Hong Kong, including the Massachusetts Institute of Technology opening its first overseas innovation node in Hong Kong, and Sweden’s Karolinska Institutet opening its first overseas centre for reparative medicine at the Hong Kong Science Park. Last year, we announced the InnoHK initiative, inviting world leading universities and research institutions to collaborate with local ones on research and development. Since the announcement, a number of world leading universities and research institutions from Hong Kong, the Mainland and overseas have expressed interest in joining the research clusters.

- (2) ITC participated in various regional and international activities from 2016-17 to 2018-19 to foster exchanges with different I&T stakeholders and promote I&T development. Relevant activities are summarised as follows:

Number of activities	Nature	Location of activities	Expenses (HK\$)	Participants
17	Conferences and expositions (e.g.	Mainland China (Beijing), the USA	About \$870,000	ITC representatives

Number of activities	Nature	Location of activities	Expenses (HK\$)	Participants
	attending the Asia-Pacific Economic Cooperation, IEEE Wireless Communications and Networking Conference, BIO International Convention, etc., and meetings with government officials, personnel of universities and I&T organisations).	(Boston, San Francisco, San Diego), the UK (London), Switzerland (Zurich), Spain (Barcelona), Australia (Brisbane), Israel (Tel Aviv), Qatar (Doha), Vietnam (Nha Trang) etc.		(1-2 for each occasion)

- (3) Building on the long-term exchanges and collaborative relationships established in the above, ITC will continue to maintain close contact with different stakeholders, and facilitate international community's better understanding of the latest status and opportunities of the I&T development in Hong Kong through various forms of cooperation and exchange in 2019-20. Relevant work will be met by existing manpower and resources. No breakdown statistics are available.

- End -

CONTROLLING OFFICER'S REPLY

ITB161

(Question Serial No. 2401)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (1) Support for Research and Development, (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Under "Head 190 - University Grants Committee", the existing endowment of the Research Endowment Fund (REF) under the Research Grants Council (RGC) is \$26 billion, out of which, \$16 billion was for providing earmarked research grants, \$4 billion for supporting the Theme-based Research Scheme, \$3 billion for providing new competitive research funds for the local self-financing degree sector and the remaining \$3 billion for implementing a Tuition Waiver Scheme for postgraduate programmes. Following the proposed injection of \$10 billion into the Innovation and Technology Fund (ITF) in last year's Budget to promote the development of innovation and technology (I&T) research, this year's Budget proposes to inject \$20 billion into the REF.

1. Currently, can a project that has applied for the REF also apply for the ITF programmes under the Innovation and Technology Commission (ITC) at the same time? If yes, how many projects for which funds under the RGC and ITC were applied at the same time in the past year? Please list out the details by projects.
2. Regarding the injection of \$20 billion into the REF as proposed in the Budget, is ITC aware of, or did it recommend on, the scope of application of the additional provision to support the Government in taking forward the I&T strategies? If yes in either way, what are the details?
3. Regarding the funding schemes under ITC and the RGC, what are the current coordination mechanisms to enhance the effectiveness of different funding schemes and simplify the application procedures, thereby promoting scientific research development of the universities in Hong Kong?
4. Is there any plan to strengthen collaboration between ITC and the RGC in 2019-20?

Asked by: Hon WU Chi-wai (LegCo internal reference no.: 17)

Reply:

A consolidated reply to the various parts of the question is as follows:

The Innovation and Technology Commission (ITC) and the Research Grants Council (RGC) have established mechanisms requiring applicants of the Innovation and Technology Fund (ITF) and the Research Endowment Fund (REF) to declare whether they have previously applied for funding support from other funding schemes for the same or a similar research project. ITC and the RGC will also cross-check against the relevant information with each other to prevent a research project from receiving funding from both ITF and REF at the same time.

The REF constitutes a major source of research funding for local universities. The Chief Executive proposed in the 2018 Policy Address to inject \$20 billion into the REF to strengthen the research capabilities of the universities. According to the information provided by the University Grants Committee (UGC), the Legislative Council (LegCo) Panel on Education supported the injection proposal at the meeting on 1 March 2019, and agreed that the proposal be submitted by the Education Bureau to the Finance Committee for scrutiny. As it takes at least 1 year to generate investment income from the newly injected endowment, the provision for the RGC is expected to increase significantly in the 2021/22 school year at the earliest, subject to the LegCo's approval of the injection within this legislative term. The additional provision will be used for sustaining the level of research funding; rendering continued funding support for impactful research through the Research Impact Fund; and providing additional funding for the collaborative research funding schemes to encourage cross-institutional/cross-disciplinary collaborations. These initiatives, coupled with various ITF funding schemes, will be conducive to achieving the Government's goal to double the Gross Domestic Expenditure on research and development (R&D) as a percentage of the Gross Domestic Product to 1.5% by 2022.

Currently, applicants for the research schemes under the UGC/RGC may provide a technology transfer plan to ITC when applying for UGC/RGC funding. If the subject applications are eventually approved funding by the RGC, the RGC would invite ITC to keep in view of these projects and their progress. For projects with potential to proceed to the applied R&D stage, the RGC will encourage the project teams to apply for ITF funding for continuing the applied R&D work upon completion of the REF-funded projects.

There is a representative from ITC serving as an ex-officio member of the RGC. Such arrangement can help strengthen coordination between both sides. ITC will continue to maintain close contact and collaboration with the RGC to support local R&D work.

- End -

CONTROLLING OFFICER'S REPLY

ITB162

(Question Serial No. 3610)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): ()

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is proposed in paragraph 109 of the Budget Speech that the Government will “regularise the Technology Voucher Programme (TVP) and roll out enhancement measures, including doubling the funding ceiling for each enterprise from \$200,000 to \$400,000”.

1. Since the launch of the TVP, what are (a) the number of applications received, (b) the number of applications approved, (c) the total amount of funding, and (d) the average amount of funding every year? What is the average time required for handling the applications approved?
2. What are the annual numbers of cases approved, broken down by funding amount (e.g. \$0-20,000, \$20,000-50,000, \$50,000-100,000, \$100,000-150,000, and \$150,000-200,000)?
3. Given that the Financial Secretary proposed to raise the funding ceiling, and that the response to the TVP was below expectation in the past, will the Innovation and Technology Commission revise the content of the TVP to benefit more enterprises?

Asked by: Hon WU Chi-wai (LegCo internal reference no.: 65)

Reply:

The required information is provided below:

- (1) and (2) Since the launch of the Technology Voucher Programme (TVP) in November 2016 up to end February 2019, the Innovation and Technology Commission (ITC) received a total of 1 565 applications. Of the 1 114 applications assessed by the TVP Committee (the Committee), 1 063 were approved. The remaining 451 applications are still awaiting supplementary information from the applicants or are under preliminary assessment by ITC. The numbers of applications received and approved, by financial year, are tabulated as follows:

Financial year	Number of applications	Number of applications approved	Total amount of funding approved (\$ million)	Average amount of funding approved (\$)
2016-17	110	102	13.95	About 140,000
2017-18	605	579	78.72	About 140,000
2018-19 (as at end February 2019)	850	382	55.98	About 150,000
Total	1 565	1 063	148.65	About 140,000

The amount of funding for the applications approved, by financial year in which the applications concerned were received, is tabulated as follows:

Amount of funding approved (\$)	Number of applications received and approved in the financial years concerned			
	2016-17	2017-18	2018-19 (as at end February 2019)	Total
0-20,000	2	11	12	25
20,001-50,000	13	84	39	136
50,001-100,000	17	95	51	163
100,001-150,000	15	80	44	139
150,001-200,000	55	309	236	600
Total	102	579	382	1 063

In terms of the time required for processing an application, from receipt of the application to completion of vetting by the Committee, the case with the shortest processing time required 13 working days. 10% of the cases took less than 39 working days to process. The overall average processing time is about 80 working days. The actual processing time for each application varies, depending on the completeness and clarity of the information in the application, as well as the time required by the applicant to submit supplementary information.

- (3) Since the launch of the TVP in November 2016, ITC has implemented different enhancement measures. The Government has also converted the TVP into a regular funding programme under the Innovation and Technology Fund starting from the 2019 Budget Day (i.e. 27 February 2019), and further implemented a series of enhancement measures, including doubling the funding ceiling, relaxing the eligibility criteria, and simplifying the application and monitoring procedures, etc. We will continue to closely monitor the implementation of the TVP, and conduct reviews and introduce more enhancement measures in due course.

- End -

CONTROLLING OFFICER'S REPLY**ITB163****(Question Serial No. 2682)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): (000) Operational expenses

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the Technology Talent Admission Scheme (TechTAS), please inform this Committee of the following information in tabular form, as well as the establishment for processing the TechTAS applications and the breakdown of expenditure:

	Number of persons admitted under the applications from the Hong Kong Science and Technology Parks Corporation	Number of persons admitted under the applications from the tenants/ incubatees/ grantees/occupants of the Hong Kong Cyberport Management Company Limited	Average approval time	Number of persons with a Bachelor's degree	Number of persons with a Master's degree	Number of persons with a Doctoral degree
Biotechnology						
Artificial intelligence						
Cybersecurity						
Robotics						
Data analytics						
Financial technologies						
Material science						
Others						

Asked by: Hon YEUNG Alvin (LegCo internal reference no.: 94)

Reply:

The Technology Talent Admission Scheme (TechTAS) was launched in June 2018 to provide a fast-track arrangement for admitting overseas and Mainland technology talent to conduct research and development work in Hong Kong. As at end-February 2019, 225 quotas were allotted by the Innovation and Technology Commission, and 40 applications of visa/entry permit using the quotas were approved by the Immigration Department. Assessment of all quota applications and applications of visa/entry permit using the quotas was completed within 2 weeks upon receipt of all necessary documents.

As at end-February 2019, the statistics on the non-local persons approved for entry under the TechTAS by technology areas and employer's background are as follows:

Technology area	Number of non-local persons approved for entry		
	Employed by tenants/incubatees of the Hong Kong Science and Technology Parks Corporation	Employed by tenants/incubatees of the Hong Kong Cyberport Management Company Limited	Total
Financial technologies	3	10	13
Material science	9	0	9
Artificial intelligence	3	3	6
Data analytics	2	2	4
Cybersecurity	1	2	3
Robotics	0	3	3
Biotechnology	2	0	2
Total	20	20	40

The statistics on the non-local persons approved for entry under the TechTAS by academic qualifications are as follows:

Highest academic qualification	Number of non-local persons approved for entry
Doctoral degree	13
Master's degree	14
Bachelor's degree or equivalent	12
Others	1
Total	40

The TechTAS is part of the work under Programme (3) "Planning for Innovation and Technology Development". In 2018-19, the establishment involved 49 posts and the estimated expenditure on salaries was \$29.1 million under Programme (3). We do not have the relevant breakdown on salaries.

- End -

CONTROLLING OFFICER'S REPLY**ITB164****(Question Serial No. 2684)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title): (000) Operational expenses

Programme: (1) Support for Research and Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the Guangdong-Hong Kong Technology Co-operation Funding Scheme (TCFS), please inform this Committee of the following information in tabular form, as well as the establishments for processing the TCFS applications and the breakdown of expenditure:

Proposed projects under Category A (solicited, vetted and funded solely by Hong Kong):

Proposed project	Technology developed	Location of research institutions	Funding amount

Proposed projects under Category B (solicited, vetted and funded solely by Guangdong/Shenzhen):

Proposed project	Technology developed	Location of research institutions	Funding amount

Proposed projects under Category C (jointly solicited, vetted and funded by Guangdong/Shenzhen and Hong Kong):

Proposed project	Technology developed	Location of research institutions	Funding amount

Asked by: Hon YEUNG Alvin (LegCo internal reference no.: 96)

Reply:

The number of applications and approval details of the Guangdong-Hong Kong Technology Co-operation Funding Scheme (TCFS) from January 2014 to December 2018 are as follows:

	Number of applications received	Number of applications approved	Funding amount (\$million)
Category A (solicited, vetted and funded solely by Hong Kong)	25	10	33.99
Category C (projects which are jointly solicited, vetted and funded by Guangdong/Shenzhen and Hong Kong)	309	48	79.14

Note: Applications under Category B are submitted directly to and administered by the relevant Guangdong or Shenzhen authorities, hence the Innovation and Technology Commission does not have the relevant statistical figures of projects under Category B.

Reference numbers of the above approved projects are listed in the Annex. The project summary (including the title, research institute, amount of funds approved, etc.) is available on the Innovation and Technology Fund (ITF) website: https://www.itf.gov.hk/1-eng/prj_search_index.asp.

The TCFS is part of the work under Programme (1) Support for Research and Development. The establishment under Programme (1) involves 52 staff in 2019-20. The estimated expenditure is \$85.6 million, mainly for salaries and departmental expenses. The relevant staff are also responsible for duties of operating other programmes under the ITF. We do not have a breakdown of expenditure for individual items.

- End -

Guangdong-Hong Kong Technology Co-operation Funding Scheme
(Projects approved from January 2014 to December 2018)

Projects under Category A

No.	Project reference
1.	GHP/020/13
2.	GHP/030/13
3.	GHP/041/14
4.	GHP/048/14
5.	GHP/053/14
6.	GHP/057/14AP
7.	GHP/033/17AP
8.	GHP/055/17
9.	GHX/004/17
10.	GHX/017/18

Projects under Category C

No.	Project reference
1.	GHP/001/13AZ
2.	GHP/002/13SZ
3.	GHP/007/13SZ
4.	GHP/012/13SZ
5.	GHP/014/13SZ
6.	GHP/018/13SZ
7.	GHP/022/13SZ
8.	GHP/025/13SZ
9.	GHP/031/13SZ
10.	GHP/038/13SZ
11.	GHP/006/14SZ
12.	GHP/007/14SZ
13.	GHP/009/14SZ
14.	GHP/010/14SZ
15.	GHP/015/14SZ
16.	GHP/016/14SZ

No.	Project reference
17.	GHP/017/14SZ
18.	GHP/028/14SZ
19.	GHP/029/14SZ
20.	GHP/043/14SZ
21.	GHP/050/14GD
22.	GHP/055/14SZ
23.	GHP/003/16GD
24.	GHP/004/16GD
25.	GHP/012/16GD
26.	GHP/024/16GD
27.	GHP/025/16GD
28.	GHP/030/16GD
29.	GHP/034/16GD
30.	GHP/007/17GD
31.	GHP/008/17GD
32.	GHP/011/17SZ
33.	GHP/021/17SZ
34.	GHP/022/17GD
35.	GHP/025/17SZ
36.	GHP/036/17SZ
37.	GHP/040/17GD
38.	GHP/042/17GD
39.	GHP/046/17GD
40.	GHP/057/17SZ
41.	GHP/071/17SZ
42.	GHP/076/17GD
43.	GHP/079/17SZ
44.	GHX/003/13SZ
45.	GHX/002/14SZ
46.	GHX/001/16GD
47.	GHX/002/17GD
48.	GHX/005/17SZ

CONTROLLING OFFICER'S REPLY

ITB165

(Question Serial No. 4947)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (4) Infrastructural Support

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is stated in paragraph 78 of the Budget Speech that the Hong Kong Science and Technology Parks Corporation is constructing an InnoCell, which will offer about 500 residential units with flexible design. Please provide information of the areas of the largest and smallest units in terms of square feet, the per-square-foot price at the market value, the per-square-foot rental and the construction costs.

Asked by: Hon YEUNG Alvin (LegCo internal reference no.: 132)

Reply:

The InnoCell provides units with flexible design for residential use to principals of tenants/incubatees in the Hong Kong Science Park (HKSP), their overseas or Mainland employees, and visiting scientists/researchers from overseas or the Mainland participating in research and development projects in the HKSP. The estimated development cost is \$800 million. Based on the latest design, the saleable floor area of the units ranges from approximately 250 to 500 square feet. The monthly rental of the InnoCell will tentatively be set at around 60% of the market rent of properties of similar quality in the nearby areas. When setting the rental of the InnoCell, the Hong Kong Science and Technology Parks Corporation will take into account the revenue and affordability of small and medium enterprises, start-ups and incubatees, and may charge the tenants concerned lower rental.

- End -

CONTROLLING OFFICER'S REPLY

ITB166

(Question Serial No. 1036)

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the City Innovation and Technology Grand Challenge, please inform this Committee of the specific initiatives, manpower arrangement and estimated expenditure.

Asked by: Hon YICK Chi-ming, Frankie (LegCo internal reference no.: 14)

Reply:

In order to create a fervid innovation and technology (I&T) atmosphere and promote the use of I&T to tackle problems encountered in daily lives, the Government has allocated \$500 million to organise the annual City Innovation and Technology Grand Challenge (Grand Challenge). We will openly invite members from all walks of life in the community to put forward solutions with I&T elements with respect to issues that are closely related to daily lives. Shortlisted participants passing the preliminary assessment will be arranged to attend different skills workshops which will assist them in refining their concepts and formulating detailed proposals for taking part in the final competition. We will select from the winning entries one or more solutions and assist their development of the technologies or concepts involved for trials in suitable public sector organisations, so as to realise and enhance the solutions for tackling vexing problems in the community with I&T. In addition to cash prize, winners may be offered the opportunity to join support programmes of the Hong Kong Science and Technology Parks Corporation.

The Innovation and Technology Commission (ITC) has earmarked \$70 million in the 2019-20 financial year for the implementation of the Grand Challenge. The provision earmarked will be used to provide cash prize and other awards, support the refinement, development and trial of selected solutions, organise skills workshops, and cover the costs of competition venues, publicity and promotion as well as other expenses for organising the competition, etc.

ITC will create 1 time-limited Executive Officer I post in 2019-20 to assist in the implementation of the Grand Challenge, and the estimated annual salary expenditure is about \$770,000.

- End -

CONTROLLING OFFICER'S REPLY**ITB167****(Question Serial No. 1518)**

Head: (155) Government Secretariat: Innovation and Technology Commission

Subhead (No. & title):

Programme: (3) Planning for Innovation and Technology Development

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please advise on the adoption of technology voucher since its launch, including the industries to which the applicants belong, number of applicant companies, and funding amount, etc.

Asked by: Hon YIU Si-wing (LegCo internal reference no.: 19)

Reply:

Since the launch of the Technology Voucher Programme (TVP) in November 2016 up to end February 2019, the Innovation and Technology Commission received a total of 1 565 applications. The major types of business engaged in by the applicants are as follows:

Type of business	Number of applications ^{Note}
Wholesale and retail	356
Import and export trade	239
Professional services	101
Restaurants and hotels	86
Information technology	72

^{Note} Applicants may engage in more than one type of business.

As at end February 2019, 1 114 applications were assessed by the TVP Committee, of which 1 063 were approved, representing a success rate of 95% and involving a total funding of about \$149 million.

- End -

CONTROLLING OFFICER'S REPLY

ITB168

(Question Serial No. 3141)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the support provided by the Office of the Government Chief Information Officer to bureaux and departments in the development of mobile applications (apps) for e-government services, will the Government inform this Committee of the following:

- (a) What were the names, project costs involved, launch dates and numbers of downloads of the apps developed by the Government in the past 2 years?
- (b) What are the names, project costs involved and launch dates of the apps for which the development work will be completed soon in the coming year?
- (c) Does the Government have any plan to increase the usage rate and number of downloads of the apps?

Asked by: Hon CHAN Chi-chuen (LegCo internal reference no.: 19)

Reply:

The required information is provided as follows:

- (a) Information of the mobile apps launched by bureaux and departments (B/Ds) in the past 2 years (2017-18 and 2018-19) is set out at Annex A.
- (b) It is expected that one government department will launch a new mobile app in 2019-20. The details are set out at Annex B.
- (c) The "Practice Guide for Developing Mobile Apps" issued by the Office of the Government Chief Information Officer (OGCIO) to B/Ds in November 2018 stipulates that B/Ds are required to set the objectives of the mobile app and understand the needs of target user groups before developing a mobile app. After the launch of the mobile app, B/Ds should also regularly review and evaluate its cost-effectiveness, and conduct suitable publicity and promotion to allow target users to understand the objectives and

usage of the mobile app, thus ensuring that B/Ds develop user-friendly mobile apps that meet the users' needs.

In addition, the GovHK Apps and the GovHK portal of OGCIO have also included a list of mobile apps of the Government to help B/Ds promote mobile apps developed by them.

Information of the mobile apps launched by B/Ds in 2017-18 and 2018-19

No.	B/D	Name	(Approximate) Cost	Launch Date	Total Number of Downloads (As at 28 Feb 2019)
1.	Hongkong Post	HKPostStamps	\$150,000	Apr 2017	17 000
2.	Water Supplies Department	WSD GA Product Directory	\$175,000	Jul 2017	6 600
3.	Education Bureau (Assessment and HKEAA Section)	說話加油站 (Chinese name only)	Developed with the related website. As it is not a stand-alone project, no separate cost breakdown is available.	Sep 2017	15 000
4.	Education Bureau (Kindergarten Administration Section)	Profile of Kindergartens and Kindergarten-cum-Child Care Centres	The cost is included in the whole project of Profile of Kindergartens. As it is not a stand-alone project, no separate cost breakdown is available.	Oct 2017	64 000
5.	Education Bureau (Personal, Social and Humanities Education Section)	History Trip Go Easy: Cheung Chau Jiao Festival	Developed with the related website. As it is not a stand-alone project, no separate cost breakdown is available.	Nov 2017	8 000
6.	Tourism Commission	A Symphony of Lights	\$537,000	Dec 2017	18 000
7.	Leisure and Cultural Services Department	iM Guide	iM Guide is an additional app of the Museum Multimedia Information Guide System. As it is not a stand-alone project, no separate cost breakdown is available.	Dec 2017	12 000
8.	Food and Environmental Hygiene Department	Internet Memorial Service	\$300,000	Jun 2018	1 000
9.	Transport Department	HKeMobility	\$600,000	Jul 2018	2 000 000
10.	Invest Hong Kong	InvestHK News & Events	\$388,000	Sep 2018	850
11.	Hongkong Post	ShopThruPost	Part of the Redevelopment of On-line Shopping Platform Project. As it is not a stand-alone project, no separate cost breakdown is available.	Nov 2018	8 200
12.	Marine Department	eSeaGo	\$600,000	Jan 2019	12 000

Information of the mobile apps planned to be launched by B/Ds in 2019-20

No.	B/D	Name	Development Cost	Expected Launch Date
1.	Water Supplies Department	H ₂ OPE Centre	The cost is included in the H ₂ OPE Centre project. As it is not a stand-alone project, no separate cost breakdown is available.	2 nd quarter of 2019

- End -

CONTROLLING OFFICER'S REPLY**ITB169****(Question Serial No. 3744)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned under this Programme that the Government will develop Hong Kong into a Wi-Fi Connected City and expand the "Wi-Fi.HK" programme. In this connection, please list out in tabular form the numbers of "Wi-Fi.HK" (hotspots) in 18 districts. What are the locations, manpower and expenditure involved? As the Government increases the number of Wi-Fi hotspots, the recurrent maintenance costs and Internet access fees involved will be greatly increased. What are the respective annual costs at present? How will the Government reduce the costs in this regard, and achieve cost-effectiveness on the usage and maintenance costs in order to avoid under-usage with high maintenance costs?

Asked by: Hon CHAN Chi-chuen (LegCo internal reference no.: 67)

Reply:

As at end-February 2019, the distribution of "Wi-Fi.HK" hotspots in 18 districts is as follows:

Number of Hotspots	
Hong Kong	
Central and Western District	2 918
Eastern District	605
Southern District	1 434
Wan Chai	1 760
Kowloon	
Kowloon City	3 587
Yau Tsim Mong	1 904
Sham Shui Po	662
Wong Tai Sin	436
Kwun Tong	639
New Territories	
Tai Po	292

Number of Hotspots	
Yuen Long	633
Tuen Mun	1 444
North District	294
Sai Kung	1 039
Sha Tin	3 596
Kwai Tsing	367
Tsuen Wan	395
Islands	1 161
Total:	23 166

The estimated expenditure for the Wi-Fi Connected City Programme in 2018-19 and 2019-20 is about \$98.72 million and \$74.17 million respectively. The manpower required is met by internal deployment within the Office of the Government Chief Information Officer.

To ensure the cost-effectiveness of the public Wi-Fi service, we will monitor the bandwidth usage at each venue, regularly review and adjust the bandwidth and number of hotspots at the venues so as to strike a balance between service usage and Internet access fees and maintenance costs, ensuring the provision of suitable public Wi-Fi service at different government venues in various districts to facilitate public access. In addition, we will, through the public-private collaboration model and by encouraging public and private organisations to participate in the “Wi-Fi.HK” brand, continue to increase the number of “Wi-Fi.HK” hotspots without the need for the Government to fund the implementation and operation costs for Wi-Fi service. Moreover, the Government has just awarded 12 contracts to 4 Wi-Fi service providers in February 2019 for providing public Wi-Fi service at government venues for a period of 48 months. This arrangement would help enhance market competition and expedite the provision of public Wi-Fi service at different government venues.

- End -

CONTROLLING OFFICER'S REPLY

ITB170

(Question Serial No. 3772)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in the Policy Address that artificial intelligence and chatbot functions will be introduced to the GovHK portal in 2019 to facilitate searching and access of e-Government services by the public. Please advise on the details of the functions, the manpower and expenditure involved as well as the rollout date.

Asked by: Hon CHAN Chi-chuen (LegCo internal reference no.: 117)

Reply:

The Office of the Government Chief Information Officer (OGCIO) is implementing the chatbot function that adopts artificial intelligence (AI) technology to facilitate the public to search and access e-Government services on the GovHK portal. The function is expected to be launched at the end of 2019. Through AI technology, the service will interact with citizens with textual responses and provide options or hyperlinks, etc. to facilitate citizens to directly access the relevant web pages to obtain the required information, application forms and the related application procedures, etc.

The estimated expenditure for implementing the chatbot service is about \$5.6 million and the manpower for related work will be met by internal deployment within OGCIO.

- End -

CONTROLLING OFFICER'S REPLY

ITB171

(Question Serial No. 5235)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in the Budget that the Government will set up a Smart Government Innovation Lab this April to engage the industry and solicit their assistance in using IT to improve public services, foster public-private partnership, and create business opportunities for start-ups and SMEs in Hong Kong. In this connection, please advise on the estimated expenditure and manpower for the Lab in the coming year. How does the Government plan to foster an innovation atmosphere in the Government and the community through the Smart Government Innovation Lab?

The Government is preparing for three smart city infrastructure projects, including (a) an electronic identity, (b) multi-functional smart lampposts, (c) enhancing the government cloud services and building a big data analytics platform. In this connection, please advise on the estimated expenditure and manpower for the above projects in the coming year.

What is the progress of the implementation of the multi-functional smart lampposts at present? Please list out in tabular form the locations where the installation of smart lampposts is confirmed, and the smart functions to be provided by the lampposts at the locations.

Asked by: Hon CHAN Chi-chuen (LegCo internal reference no.: 384)

Reply:

The required information is provided as follows:

The Office of the Government Chief Information Officer (OGCIO) will establish the Smart Government Innovation Lab (Smart Lab) in April 2019 to conduct trials and technology testing in collaboration with government departments on information technology (IT) solutions which address their business needs. The "Smart Lab" will also showcase technologies that have been successfully tested by government departments, such as chatbot, virtual reality, geospatial technology, etc., with a view to inspiring wider adoption among government departments.

Besides, OGCIO will set up the “Smart Lab” thematic website to share the challenges being faced by different public services, and invite the industry to submit technology solutions and product suggestions for addressing such challenges. OGCIO will organise technology forums in collaboration with Cyberport and Hong Kong Science Park for the industry players to share their technology solutions and success stories, and how these technologies can be used to improve public services. Local start-ups and small and medium enterprises joining the forums can better understand and appreciate the business needs of government departments, and submit proposals to the “Smart Lab” for addressing different city management challenges. We aim to organise the first technology forum in June 2019, and then hold it on a quarterly basis. OGCIO will upload the technology solutions and suggestions received to the “Smart Lab” thematic website and arrange thematic workshops for government departments so that they could better understand the solutions and products that suit their needs, and conduct trials and technology testing for suitable solutions in the “Smart Lab”.

The estimated expenditure for the “Smart Lab” in 2019-20 is about \$4.9 million. OGCIO will create 4 IT professional civil service posts for the related work.

Regarding the 3 smart city infrastructure projects, their estimated expenditure and manpower arrangement in 2019-20 are as follows:

- (a) The estimated expenditure for the electronic identity (eID) project is about \$20.59 million. OGCIO will create 7 time-limited civil service posts for the related work.
- (b) The estimated project expenditure (including smart devices) and operating expenditure (including lamppost daily operation and maintenance) for the Multi-functional Smart Lampposts pilot scheme are \$48 million and \$7.15 million respectively. The Environmental Protection Department, Highways Department (HyD) and Transport Department will create 13 time-limited civil service posts for the related work during the implementation of the pilot scheme while the manpower requirement of OGCIO will be met by internal deployment.
- (c) The estimated expenditure for the project of enhancing the government cloud infrastructure services and building a big data analytics platform is \$34.68 million. OGCIO will create 3 permanent civil service posts for the related work.

Under the Multi-functional Smart Lampposts pilot scheme, OGCIO together with HyD will install some 400 lampposts equipped with smart devices at selected urban locations, namely Central/Admiralty, Causeway Bay/Wan Chai, Tsim Sha Tsui and Kwun Tong/Kai Tak Development Area. The procurement work for some 50 lampposts in the first phase has largely been completed and the lampposts will come into operation progressively by mid-2019. The remaining 350 lampposts will be installed in phases and all works are expected to be completed in 2021-22.

The locations of the 85 smart lampposts expected to be installed in 2019 are as follows:

Selected Locations for Smart Lamppost Installation	Number of Smart Lampposts
<u>First Phase (by mid-2019)</u> <ul style="list-style-type: none"> ● Sheung Yuet Road, Kwun Tong ● Shing Kai Road, Kowloon City ● Urban Redevelopment Authority (URA) Kwun Tong Town Centre Project <u>Second Half of 2019</u> <ul style="list-style-type: none"> ● URA Kwun Tong Town Centre Project ● Near Kai Tak Cruise Terminal, Kowloon City 	 24 20 8 12 21

The locations of the remaining smart lampposts would be determined at a later stage after consultation with the relevant district councils.

The data collected by the Multi-functional Smart Lampposts and their applications include:

- Collection of real-time traffic data such as traffic speed, traffic flow, etc.;
- Monitoring of traffic conditions;
- Collection of meteorological and related data at district level, such as wind speed and direction;
- Monitoring of illegal construction waste disposal; and
- Provision of location services.

- End -

CONTROLLING OFFICER'S REPLY

ITB172

(Question Serial No. 0450)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The indicators for the key performance measures in respect of use of IT in the Government include “bureaux and departments with IT plans in place”. There is an increase of 2 bureaux/departments in 2018 as compared with 2017 while the number remains unchanged in 2019. Will the Government inform this Committee of the following:

- (1) The reasons for the zero growth next year;
- (2) What is the manpower allocated by the Office of the Government Chief Information Officer to assist other government departments in having IT plans in place?
- (3) Is the opening up of government data one of the objectives of the IT plans? If yes, how much will be allocated by the Government to complete the whole plan?

Asked by: Hon CHAN Chun-ying (LegCo internal reference no.: 23)

Reply:

The required information is provided as follows:

- (1) At present, about 80% of bureaux and departments (B/Ds) have formulated information technology (IT) plans according to their business needs, and the remaining B/Ds expressed that they have no such needs in 2019. Regardless of whether B/Ds have IT plans in place, they will implement various IT projects, including those IT strategies and initiatives promoted by the Office of the Government Chief Information Officer (OGCIO), such as opening up government data and adopting “electronic identity” (eID) in e-Government services.
- (2) In general, the Information Technology Management Unit (ITMU) of individual B/Ds is responsible for the planning and implementation of their IT projects, including formulation of the IT plan. For those B/Ds without ITMU, OGCIO will provide them with necessary IT professional support. OGCIO does not have a breakdown of the related manpower statistics.

- (3) In September 2018, the Government announced a new policy of opening up government data to drive B/Ds and encourage public and private organisations to open up more datasets in machine-readable format on the Public Sector Information (PSI) Portal for free use by the public. B/Ds will carry out the work with existing manpower and resources. If additional resources are required, the B/D concerned can seek funding from the block allocation under Capital Works Reserve Fund Head 710 Computerisation. Hence, OGCIO does not have the statistics on the required resources for taking forward this policy.

- End -

CONTROLLING OFFICER'S REPLY

ITB173

(Question Serial No. 2553)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Matters Requiring Special Attention in 2019-20 include “continu(ing) to work with bureaux and departments and related organisations to open up more data for free use by the public”. Will the Government inform this Committee of the following:

- (1) What are the estimated numbers of bureaux and departments and related organisations that will open up more data in the coming 3 years? What are the estimated manpower and expenditure involved?
- (2) At present, some data of the Government (e.g. searches of land records) are charged with fees. Does it work out how many items of charged data will be opened up in the coming 3 years? If yes, how much government revenue will be reduced?

Asked by: Hon CHAN Chun-ying (LegCo internal reference no.: 26)

Reply:

The required information is provided as follows:

- (1) With reference to the first annual open data plans promulgated by bureaux/departments (“B/Ds”) in December 2018, over 90 B/Ds and their related organisations will open up more data in the next 3 years. In general, B/Ds will use their existing manpower and resources to handle open data related tasks. If additional resources are required, they could apply for funding from the block allocation under Capital Works Reserve Fund Head 710 Computerisation. The Office of the Government Chief Information Officer currently does not have the estimates in this regard.
- (2) According to the first annual open data plans promulgated by B/Ds in December 2018, the data to be opened up for the next 3 years does not involve data charged with fees.

- End -

CONTROLLING OFFICER'S REPLY**ITB174****(Question Serial No. 2554)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title): (000) Operational expenses

Programme: Not Specified

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The revised estimate of Allowances under Personal Emoluments in 2018-19 of the Office of the Government Chief Information Officer is 27% higher than the original estimate in 2018-19; and the revised estimate this year is also 63% higher than the actual amount of Allowances in 2017-18. Will the Government advise on the reason for such a huge difference between the 2 financial years and the detailed breakdown?

Asked by: Hon CHAN Chun-ying (LegCo internal reference no.: 28)

Reply:

The increase in the revised estimate regarding Allowances under Personal Emoluments in 2018-19 of the Office of the Government Chief Information Officer over the original estimate in 2018-19 and the actual amount of Allowances in 2017-18 is mainly due to the increased expenditure on acting allowance in 2018-19. The breakdown of Allowances under Personal Emoluments is provided as follows:

Allowances under Personal Emoluments	2017-18 (Actual) (\$ million)	2018-19 (Original Estimate) (\$ million)	2018-19 (Revised Estimate) (\$ million)
Acting allowances	6.7	8.8	11.3
Overtime allowances and on-call duty allowance	0.5	0.5	0.5
Total	7.2	9.3	11.8

- End -

CONTROLLING OFFICER'S REPLY

ITB175

(Question Serial No. 2556)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Office of the Government Chief Information Officer will set up a Smart Government Innovation Lab and promote adoption of innovative IT products and solutions of the local industry in various public services this year. Will the Government inform of the following:

- (1) What is the estimated manpower to be deployed for setting up the Smart Government Innovation Lab and implementing the related work?
- (2) What is the amount of allocation for setting up the Lab?
- (3) How much manpower will be deployed for exploring the promotion of adoption of local research and development products in public services?

Asked by: Hon CHAN Chun-ying (LegCo internal reference no.: 30)

Reply:

The required information is provided as follows:

- (1) & (3) The Office of the Government Chief Information Officer (OGCIO) will establish the Smart Government Innovation Lab (Smart Lab) in April 2019 to conduct trials and technology testing in collaboration with government departments on information technology (IT) solutions which address their business needs. These solutions include applying artificial intelligence and big data analytics through “Multi-Functional Smart Lamppost” to facilitate more effective collection and analysis of traffic data and support of crowd management measures. The “Smart Lab” will also showcase technologies that have been successfully tested by government departments, such as chatbot, virtual reality, geospatial technology, etc., with a view to inspiring wider adoption among government departments. In line with the new government procurement policy, the “Smart Lab” will facilitate the industry to assist government departments in applying IT to improve public services, foster public-private

collaboration and create more business opportunities for local start-ups and small and medium enterprises (SMEs).

Besides, OGCIO will set up the “Smart Lab” thematic website to share the challenges being faced by different public services, and invite the industry to submit technology solutions and product suggestions for addressing such challenges. OGCIO will organise technology forums in collaboration with Cyberport and Hong Kong Science Park for the industry players to share their technology solutions and success stories, and how these technologies can be used to improve public services. Local start-ups and small and medium enterprises joining the forums can better understand and appreciate the business needs of government departments, and submit proposals to the “Smart Lab” for addressing different city management challenges. We aim to organise the first technology forum in June 2019, and then hold it on a quarterly basis. OGCIO will upload the technology solutions and suggestions received to the “Smart Lab” thematic website and arrange thematic workshops for government departments so that they could better understand the solutions and products that suit their needs, and conduct trials and technology testing for suitable solutions in the “Smart Lab”.

OGCIO will create 4 IT professional civil service posts for the related work.

- (2) The estimated expenditure for the “Smart Lab” in 2019-20 is about \$4.9 million.

- End -

CONTROLLING OFFICER'S REPLY

ITB176

(Question Serial No. 2557)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Matters Requiring Special Attention in 2019-20 include “launch(ing) the web-based learning portal to help the elderly and people in need acquire digital skills”. Will the Government inform this Committee of the following:

- (1) What are the details and estimated expenditure of the aforesaid web-based learning portal?
- (2) What is the estimated manpower required for the promotion plan, and how will the actual effectiveness of the portal be evaluated?

Asked by: Hon CHAN Chun-ying (LegCo internal reference no.: 31)

Reply:

The required information is provided as follows:

- (1) The Office of the Government Chief Information Officer (OGCIO) will launch the web-based learning portal in the fourth quarter of 2019 and produce about 15 learning modules in phases, including online shopping, using e-Government services, cyber security, using cloud-based tools and social media, etc., to enable more elderly people and those in need to learn digital technology in daily living. The portal will also provide training in an interactive manner (such as virtual reality videos, interactive quizzes, etc.). The estimated expenditure for the project of setting up the portal is around \$3 million. The manpower involved for managing the portal is met by internal deployment within OGCIO.
- (2) OGCIO will evaluate the effectiveness of the web-based learning portal based on the number of visits, hit rates, etc. and through the conduct of surveys. The work will be undertaken by staff through internal deployment.

- End -

CONTROLLING OFFICER'S REPLY

ITB177

(Question Serial No. 4349)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: Not Specified

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the work on the Code on Access to Information (the Code), will the Government inform this Committee of the following:

- (1) Among the requests for information under the Code received by the Office of the Government Chief Information Officer (OGCIO) of which only part of the required information was provided, please list out in tabular form (i) the details of the requests of which only part of the required information was provided, (ii) the reasons for providing only part of the information, (iii) how the requests were eventually handled.

Year

(i) Details of the requests of which only part of the required information was provided	(ii) Reasons for providing only part of the information	(iii) How the requests were eventually handled

- (2) Among the requests for information under the Code received by OGCIO of which the provision of the required information was refused, please list out in tabular form (i) the details of the requests of which the provision of the required information was refused, (ii) the reasons for refusing the provision of the required information, (iii) how the requests were eventually handled.

Year

(i) Details of the requests of which the provision of the required information was refused	(ii) Reasons for refusing the provision of the required information	(iii) How the requests were eventually handled

Asked by: Hon CHAN Tanya (LegCo internal reference no.: 93)

Reply:

During the period from January to September 2018, the Office of the Government Chief Information Officer had not declined to provide or only provided part of the information sought under the “Code on Access to Information”.

- End -

CONTROLLING OFFICER'S REPLY

ITB178

(Question Serial No. 5793)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the procurement of information technology (IT) products and services under the Standing Offer Agreement for the Supply of Network Products and Server Systems (SOA), please inform this Committee of the following:

- (1) Please list out in tabular form the IT products procured under SOA in each of the past 5 years by (i) contractor, (ii) total expenditure, (iii) product details (including (a) type, (b) quantity, (c) breakdown of expenditure, (d) usage), (iv) end user department.

Year

(i) Contractor	(ii) Total Expenditure	(iii) Product Details				(iv) End User Department
		(a) Type	(b) Quantity	(c) Breakdown of Expenditure	(d) Usage	

- (2) Please list out in tabular form the IT services procured under SOA in each of the past 5 years by (i) contractor, (ii) total expenditure, (iii) service details (including (a) service description, (b) breakdown of expenditure), (iv) end user department.

Year

(i) Contractor	(ii) Total Expenditure	(iii) Service Details		(iv) End User Department
		(a) Service Description	(b) Breakdown of Expenditure	

Asked by: Hon CHAN Tanya (LegCo internal reference no.: 178)

Reply:

In the past 5 years (starting from 2014-15), more than 70 bureaux/departments have procured information technology (IT) products and services from 26 contractors (see the list at Annex) through the Standing Offer Agreement for the Supply of Network Products and Server Systems for setting up new computer systems or revamping existing systems.

Summary of the above procurement of products and services is tabulated as follows:

(1) IT Products

Year	Total Expenditure (\$ million)	Product Details						
		Type	Quantity			Breakdown of Expenditure (\$ million)		
			Hardware (a)	Software (b)	Total (a) + (b)	Hardware (c)	Software (d)	Total (c) + (d)
2014-15	262.6	Network Product	8 098	2 034	10 132	79.1	7.8	86.9
		Enterprise Server System	4 600	245 325	249 925	91.4	84.3	175.7
2015-16	257.4	Network Product	4 873	2 068	6 941	61.6	5.3	66.9
		Enterprise Server System	6 564	129 098	135 662	106.4	84.1	190.5
2016-17	292.0	Network Product	4 709	581	5 290	61.2	5.7	66.9
		Enterprise Server System	6 925	144 522	151 447	122.3	102.8	225.1
2017-18	356.8	Network Product	6 849	7 913	14 762	87.3	11.0	98.3
		Enterprise Server System	7 183	169 431	176 614	144.7	113.8	258.5
2018-19 (as at end-February)	410.6	Network Product	10 634	2 786	13 420	114.8	16.7	131.5
		Enterprise Server System	7 247	190 744	197 991	157.4	121.7	279.1

(2) IT Services

Year	Total Expenditure (\$ million)	Service Details	
		Type	Breakdown of Expenditure (\$ million)
2014-15	18.6	Network cabling and support service	7.2
		Enterprise server system support service	11.4
2015-16	17.5	Network cabling and support service	4.7
		Enterprise server system support service	12.8
2016-17	22.4	Network cabling and support service	6.2
		Enterprise server system support service	16.2
2017-18	32.7	Network cabling and support service	11.2
		Enterprise server system support service	21.5
2018-19 (as at end-February)	50.6	Network cabling and support service	19.0
		Enterprise server system support service	31.6

List of Contractors under
the Standing Offer Agreement for the Supply of Network Products and Server Systems

Afina Data Systems Limited	皓維系統有限公司
ATech Communication (HK) Limited	-
Automated Systems (HK) Limited	自動系統(香港)有限公司
Baro International Limited	博豪國際有限公司
Dimension Data China/Hong Kong Limited	達科數據通訊中國／香港有限公司
Electronic Business Solutions Limited	資匯科技有限公司
ELM Computer Technologies Limited	榆林電腦科技有限公司
Expert Systems Limited	思博專業系統有限公司
Fujitsu Hong Kong Limited	富士通香港有限公司
Global Technology Integrator Limited	科匯技術有限公司
Hong Kong Telecommunications (HKT) Limited	香港電訊有限公司
ICON Business Systems Limited	怡安電腦有限公司
Jardine OneSolution (HK) Limited	怡和科技(香港)有限公司
Kinetix Systems Limited	捷冠科技有限公司
Macroview Telecom Limited	高威電信有限公司
Microware Limited	美高域有限公司
Multisoft Limited	-
NEC Hong Kong Limited	日本電氣香港有限公司
Nexify Limited	-
PCCW Solutions Limited	電訊盈科企業方案有限公司
Roctec Technology Limited	鷹達科技有限公司
Senco-Masslink Technology Limited	信港電腦有限公司
Top Level Corporation Limited	高皆有限公司
Toppan Forms Computer Systems Limited	凸版資訊電腦系統有限公司
Vertex Systems Limited	恆進系統有限公司
WTT HK Limited	滙港電訊有限公司

- End -

CONTROLLING OFFICER'S REPLY**ITB179****(Question Serial No. 6256)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Please list out the information of public Wi-Fi services:

- (1) The coverage of public Wi-Fi services in Hong Kong up to last year;
- (2) The details of public Wi-Fi services such as the wireless network standard and connection speed.

Asked by: Hon CHAN Tanya (LegCo internal reference no.: 304)

Reply:

The required information is provided as follows:

- (1) As at end-February 2019, the number and distribution of "Wi-Fi.HK" hotspots under Wi-Fi Connected City Programme are as follows:

Number of Hotspots	
Hong Kong	
Central and Western District	2 918
Eastern District	605
Southern District	1 434
Wan Chai	1 760
Kowloon	
Kowloon City	3 587
Yau Tsim Mong	1 904
Sham Shui Po	662
Wong Tai Sin	436
Kwun Tong	639
New Territories	
Tai Po	292
Yuen Long	633

Number of Hotspots	
Tuen Mun	1 444
North District	294
Sai Kung	1 039
Sha Tin	3 596
Kwai Tsing	367
Tsuen Wan	395
Islands	1 161
Total:	23 166

- (2) The latest Wi-Fi technology standard (IEEE 802.11ac) has been adopted in all “Wi-Fi.HK” service operated by the Government and service contractors through public-private collaboration model to reduce signal interference. According to the on-site inspections conducted in 2018 by the third party organisation, the average connection speed of the “Wi-Fi.HK” hotspots (including the “Wi-Fi.HK” hotspots operated by the Government, service contractors as well as public and private organisations) was above 20 Mbps.

- End -

CONTROLLING OFFICER'S REPLY**ITB180****(Question Serial No. 6364)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

On-site computer repair services have been provided under the Internet Learning Support Programme. How many people have been served since the commencement of the programme up to now? (Please list out the numbers by year.)

Asked by: Hon CHEUNG Chiu-hung, Fernando (LegCo internal reference no.: 1613)

Reply:

The Internet Learning Support Programme (ILSP) started to provide on-site technical support services (including computer check-up, installation of free anti-virus software, assistance in replacement of computer peripherals, etc.) from January 2014, but did not cover computer repair services. This programme has already ended in end-August 2018. The respective numbers of the on-site technical support services are tabulated as follows:

Year	Number of Services
2013-14 (from January 2014 onwards)	863
2014-15	8 588
2015-16	14 492
2016-17	15 671
2017-18	14 326
2018-19 (up to August 2018)	4 412
Total	58 352

After the end of ILSP, the non-profit-making organisations, namely WebOrganic and the Boys' and Girls' Clubs Association of Hong Kong, continue to provide low-income families and students with Internet learning support services (e.g. computer products, computer check-up and technical support, training and social support, etc.) and broadband Internet access services at discounted prices.

- End -

CONTROLLING OFFICER'S REPLY**ITB181****(Question Serial No. 7096)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in Programme (2): Innovation and Technology that (the Government) will "continue to oversee the implementation of eID". Please inform this Committee of the following:

- (1) Please list out in tabular form the service providers involved with the system and the expenditure involved, including (i) server operating system, (ii) database, (iii) monitoring and backup software, (iv) eID application software, (v) system implementation and support classification, (vi) system analysis and design, development, test, installation, (vii) server, (viii) storage area network, (ix) network equipment.

	Product or service provider	Expenditure
(i) Server operating system		
(ii) Database		
(iii) Monitoring and backup software		
(iv) eID application software		
(v) System implementation and support classification		
(vi) System analysis and design, development, test, installation		
(vii) Server		
(viii) Storage area network		
(ix) Network equipment		

- (2) On 11 October 2018, Nicholas W YANG, Secretary for Innovation and Technology mentioned that “for the first stage, the 25 government services that are most frequently used will be delivered through electronic means by the middle of 2020, 30.....by the end of 2020; 40 by the middle of 2021”. Please provide in tabular form the list of all the electronic services.

Services by the middle of 2020 (List of services)	Additional services by the end of 2020	Additional services by the middle of 2021

Asked by: Hon CHEUNG Chiu-hung, Fernando (LegCo internal reference no.: 8635)

Reply:

The required information is provided as follows:

- (1) The Office of the Government Chief Information Officer (OGCIO) awarded the contracts in end-February 2019 to the following service providers for the development of “electronic identity” (eID) system:

Service Provider	Scope of Work	Contract Value (\$ million)
Ping An Technology (Shenzhen) Co Ltd	eID core system	35.91
Ping An Technology (Shenzhen) Co Ltd	Facial recognition and image processing system	8.12
ICO Limited	Checking system	38.85
Shenzhen Emperor Technology Co Ltd	Self-service registration kiosks and related equipment	3.51

The expenditures for the system development and related work of the above contracts are as follows:

	Expenditure (\$ million)
(a) Server operating system	0.11
(b) Database	0.28
(c) Monitoring and backup software	0.85
(d) eID application software	1.35
(e) System implementation and support	51.71
(f) System analysis and design, development, testing, installation	15.62
(g) Server	7.00
(h) Storage area network	3.83
(i) Network equipment	0.98
(j) Others	4.66
Total:	86.39

- (2) We expect that upon its launch in mid-2020, eID will be adopted by 26 e-Government services (details are given at [Annex](#)).

e-Government Services Adopting eID Commencing Mid-2020

	Government Bureau/ Department (B/D)	e-Government Service
1	Census and Statistics Department	2021 Population Census - Pilot Survey
2	Food and Health Bureau	eHRSS - Patient Portal
3	Highways Department	Road Works - Excavation Permit Management System
4	Hong Kong Observatory	Public Enquiry and Complaint on Weather Forecasting and Warning Services
5	Housing Department	e-Application for Subsidised Housing
6		Internet e-Services for Public Rental Housing Applicants
7		Internet e-Services for Public Rental Housing Tenants
8		iHousing
9	Inland Revenue Department	eTax
10	Labour Department	Registration for Employment Services by Job Seekers
11	Office of the Government Chief Information Officer	MyGovHK and Change of Address Service
12		Registration of Outbound Travel Information
13	Post Office	EC-Ship
14		Hongkong Post Circular Service
15		My Speedpost
16		ShopThruPost
17		Stamp OnNet
18	Rating and Valuation Department	eRVD Bill Service

	Government Bureau/ Department (B/D)	e-Government Service
19	Transport Department	Online Application for Renewal of Full Driving Licence
20		Appointment Booking Service
21		Online Services for Personalised Vehicle Registration Marks
22		Online Services for Traditional Vehicle Registration Marks
23		Online Checking of Driving Licence Status
24	Working Family and Student Financial Assistance Agency (Student Finance Office)	Loan Repayment - Electronic Demand Notes and Notification/Reminder Service
25		Online Counter Appointment Booking System
26		SFO E-Link - My Applications

It is expected that most of the e-Government services (over 110) will enable user login using eID by mid-2021. OGCIO and related B/Ds will announce the details at appropriate juncture.

- End -

CONTROLLING OFFICER'S REPLY**ITB182****(Question Serial No. 7105)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

For the Multi-functional Smart Lampposts pilot scheme mentioned in Programme (2) IT Infrastructure and Standards, please inform this Council:

(1) Please list out in tabular form the service providers and details of the data collected in the pilot scheme, including (i) company name, (ii) data type, (iii) data collection method, (iv) data usage and (v) data update frequency.

(i) Company Name	(ii) Data Type	(iii) Data Collection Method	(iv) Data Usage	(v) Data Update Frequency

(2) On the 26th of March 2018, Mr Nicholas YANG, the Secretary for Innovation and Technology, mentioned that “the Multi-functional Smart Lampposts are suitable for installing base stations for the fifth generation mobile communications (5G) services, and can also be used to provide Wi-Fi services”, please list out in tabular form (i) the fifth generation mobile communications (5G) network service providers, (ii) Wi-Fi service providers, sorted by region.

	(Region)
(i) the fifth generation mobile communications (5G) network service provider	
(ii) Wi-Fi service provider	

Asked by: Hon. CHEUNG Chiu-hung, Fernando (LegCo internal reference no.: 8721)

Reply:

The information required is provided as follows:

- (1) The service contractors involved in the Multi-functional Smart Lampposts pilot scheme mainly provide relevant government departments with hardware, software and application systems for city data collection. They are not involved in data collection.

Some 50 smart lampposts as well as related smart devices and equipment in the first phase are provided and installed by CLP Engineering Limited and Kum Shing (K.F.) Construction Company Limited, which are the contractors of the Management, Operation and Maintenance of the Public Lighting System of the Highways Department, while the telecommunications network services is provided by Hong Kong Telecommunications (HKT) Limited and HGC Global Communications Limited through open tenders. The remaining 350 smart lampposts will be provided and installed by the respective contractors of the Highways Department in different districts, while the related smart devices and equipment as well as the telecommunications network services will be procured through open tenders.

The Multi-functional Smart Lampposts will collect various city data to enhance city management and public services.

- (a) On meteorology, the Hong Kong Observatory will use meteorological sensors to collect real-time meteorological and related data at district level, including temperature, humidity, wind speed and direction, rainfall, UV index, etc., in order to enhance meteorological monitoring/forecasting at district level.
- (b) On environmental protection, the Environmental Protection Department will use air quality sensors to collect real-time air quality data at district level and use surveillance cameras to assist in law enforcement work against illegal dumping of construction waste.
- (c) On transport, the Transport Department will use traffic detectors and surveillance cameras to collect real-time traffic data, including vehicle speed, vehicle type and traffic flow, etc., and monitor traffic conditions, such as taking prompt actions in response to different traffic conditions and incidents.
- (d) On tourism, the Tourism Commission will use the data collected by smart lampposts to provide the travel industry/agents with district traffic information or reminders to help them plan their journeys to avoid congested areas so as to enhance tourists' travel experience in Hong Kong.

- (e) On geo-positioning, the Lands Department will install Bluetooth transmitters and adopt radio frequency identification (RFID) technology and geographic-QR codes to provide accurate location services to support government services and the development of relevant applications by the industry, such as providing citizens and tourists with information about public facilities in their vicinity.

City data collected from the Multi-functional Smart Lampposts will be released free of charge through the “data.gov.hk” portal, facilitating the public and the industry to use these data to develop more innovative applications.

- (2) Following the completion of the allocation exercise for the first batch of the fifth generation (5G) mobile telecommunications spectrum by the Communications Authority in April this year, the Office of the Government Chief Information Officer will make available the smart lampposts in the middle of this year for all mobile network operators to apply for installation of 5G base stations and provision of free Wi-Fi service.

- End -

CONTROLLING OFFICER'S REPLY

ITB183

(Question Serial No. 0725)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in paragraph 79 of this Budget Speech that the Government will deploy \$500 million to implement the IT Innovation Lab in Secondary Schools Programme in the coming 3 school years. Each secondary school benefiting will be granted \$1 million to procure the necessary information technology (IT) equipment and professional services, and organise more relevant extra-curricular activities to deepen students' knowledge of cutting-edge IT. In this connection, will the Government inform this Committee of the following:

- (1) Have assessments been made if the existing teacher resources and manpower in secondary schools are sufficient to impart knowledge of cutting-edge IT to students? If yes, what are the details? If not, are there any measures to ensure that the above funding will be put to proper use?
- (2) Will support be given to secondary schools to strengthen related IT teacher training? If yes, what are the details? If not, what are the reasons?
- (3) There are views that since the new programme will only be launched for 3 years with an allocation of \$500 million only, schools may not employ additional teachers for this and will only procure hardware and acquire service packages of IT courses. Thus it is difficult to pursue IT innovation education sustainably. Will the Bureau put in place a review mechanism and adjust the duration, the amount of allocation, etc. of the programme according to the effectiveness in order to maintain the sustainability of the programme? If yes, what are the details? If not, what are the reasons?
- (4) In drawing up the application procedures, will samples and guidelines be provided to schools? Will reference be made to the practices of partner schools of the Enriched IT Programme to formulate development plans based on circumstances and teacher resources of individual schools in order to minimise the administrative work of schools? If yes, what are the details? If not, what are the reasons?
- (5) There are views that the development of STEM education in primary schools had encountered difficulties in recent years and the Government should, on an equal basis, provide related funding support to all primary schools as well with a view to

promoting popular science education across the board in Hong Kong. In this connection, will the Bureau consider exploring the inclusion of primary schools in the programme? If yes, what are the details? If not, what are the reasons?

Asked by: Hon CHIANG Lai-wan (LegCo internal reference no.: 17)

Reply:

The required information is provided as follows:

- (1) and (2) The “IT Innovation Lab in Secondary Schools” initiative provides financial support to each publicly-funded secondary school in Hong Kong to procure information technology (IT) equipment and professional services as well as supporting them to organise IT-related extra-curricular activities (ECA). The scope of funding does not cover teacher training. In fact, the requirement for teachers’ IT professional knowledge to organise related activities for secondary students should not be too demanding. The one-stop support centre set up by the Office of the Government Chief Information Officer (OGCIO) will make reference to the Education Bureau (EDB)’s arrangements of ECA subsidy schemes to enable schools to procure tutorial support services and arrange time-limited manpower to assist in the planning work, such as engaging coding instructors or relevant technology experts, etc. with the funding of the “IT Innovation Lab in Secondary Schools” initiative. Schools may also choose the professional services available in the market according to their actual situation.
- (3) The initiative mainly aims to nurture secondary students’ interest in learning IT so as to encourage them to enrol in technology related post-secondary programmes a few years later and pursue a future career in innovation and technology. We will discuss the actual implementation and effectiveness of the initiative with EDB to explore suitable measures to sustain the promotion of the work in light of the technology development, school needs and other relevant funding measures, etc.
- (4) OGCIO will issue application guidelines and reference list of IT equipment to schools, and make reference to the experience of the Enriched IT Programme in Secondary Schools (EITP) to streamline the application and approval procedures as far as possible, such as providing templates and electronic forms, arranging briefing sessions, and setting up a one-stop support centre to provide the necessary assistance to participating secondary schools and teachers.
- (5) The “IT Innovation Lab in Secondary Schools” is an enhancement initiative launched under the existing EITP, and the scope of funding is extended to all publicly-funded secondary schools. Based on the experience of EITP implementation, students will generally explore their direction in further studies and career in secondary schools. Therefore, enabling students at this learning stage to access advanced technologies such as artificial intelligence, big data, etc. is more in line with the Government’s policy objectives in nurturing technology talent.

- End -

CONTROLLING OFFICER'S REPLY

ITB184

(Question Serial No. 4891)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in the 2019-20 Budget that the IT Innovation Lab in Secondary Schools Programme will be implemented under the Enriched IT Programme in Secondary Schools. In this connection, please advise on the estimated expenditure and implementation details of the IT Innovation Lab in Secondary Schools Programme, including the maximum amount of funding to be applied for by each school, application conditions, estimated vetting time for each project, as well as the estimated additional resources for this programme, including the numbers and estimated annual salaries of posts to be created.

Can schools use the funding to employ related laboratory staff or teachers under the programme? If yes, please advise on the terms of employment. If not, what are the reasons?

Asked by: Hon IP Kin-yuen (LegCo internal reference no.: 141)

Reply:

The Office of the Government Chief Information Officer (OGCIO) plans to launch the "IT Innovation Lab in Secondary Schools" initiative before the end of 2019, which will provide a maximum funding of \$1 million to each publicly-funded secondary school in Hong Kong in the 3 school years from 2019/20 to 2021/22 to procure information technology (IT) equipment and professional services, and organise and participate in IT-related extra-curricular activities (ECA).

In applying for the funding, schools will draw up a proposal under the "IT Innovation Lab in Secondary Schools" initiative taking into account their actual situation and the needs of their students. The proposal should include IT equipment and professional services to be procured, relevant ECA to be organised and the funding required. OGCIO will be responsible for vetting and approving the applications, and disbursing the funding required accordingly each year. We will streamline the application and approval procedures as far as possible to reduce unnecessary administrative burden.

OGCIO will issue application guidelines and reference list of IT equipment, and set up a one-stop support centre to provide advice to schools and teachers on the relevant professional services and IT-related ECA. OGCIO will create 7 time-limited civil service posts to implement the initiative. The estimated annual expenditure is about \$11.6 million.

We will make reference to the Education Bureau's arrangements of ECA subsidy schemes to enable schools to procure suitable tutorial support services or arrange time-limited manpower to assist in the planning work, such as engaging coding instructors or relevant technology experts, etc. with the funding of the "IT Innovation Lab in Secondary Schools" initiative. Schools may also choose the professional services available in the market according to their actual situation.

- End -

CONTROLLING OFFICER'S REPLY**ITB185****(Question Serial No. 5365)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

On "Providing Public Wi-Fi Services in Study Rooms and Youth Service Centres", "Internet Access for Needy Students" and the "Enriched IT Programme in Secondary Schools", please advise on the respective service briefs such as the breakdown of these projects in the past 5 years, including service description, budget, expenditure, numbers of service beneficiaries and benefiting schools (if applicable). Besides, has the Bureau assessed the effectiveness of the above services? If yes, please advise on the outcome of the assessment. If not, what are the reasons?

Asked by: Hon IP Kin-yuen (LegCo internal reference no.: 184)

Reply:

The required information is provided as follows:

Item	Service description	Estimated Expenditure (\$ million)	Expenditure (As at end-February 2019) (\$ million)	Number of beneficiaries	Number of benefiting schools/ study rooms and youth service centres
Providing Public Wi-Fi Services in Study Rooms and Youth Service Centres	The Office of the Government Chief Information Officer (OGCIO) launched a scheme in March 2017 to subsidise 50 non-profit-making	25.3	3.2	Average number of users daily in 2018-19 is around 6 200	170 study rooms and youth service centres

Item	Service description	Estimated Expenditure (\$ million)	Expenditure (As at end-February 2019) (\$ million)	Number of beneficiaries	Number of benefiting schools/ study rooms and youth service centres
	organisations with regular funding support from the Education Bureau and the Social Welfare Department to install and provide free public Wi-Fi service at the study rooms and youth service centres operated by them for around 5 years starting from 2017.				
Internet Learning Support Programme (ILSP)	ILSP was completed in end-August 2018. From the 2018/19 school year onwards, the non-profit-making organisations, namely WebOrganic and The Boys' and Girls' Clubs Association of Hong Kong (BGCA), continue to provide low-income families and students with Internet learning support services.	220	200	76 930 families	Not applicable

Item	Service description	Estimated Expenditure (\$ million)	Expenditure (As at end-February 2019) (\$ million)	Number of beneficiaries	Number of benefiting schools/ study rooms and youth service centres
Enriched IT Programme in Secondary Schools (EITP)	<p>EITP comprises of two components –</p> <p>(a) Enriched IT Class Programme — to provide funding support for 8 partner schools to run enriched IT classes to provide advanced training to students who are interested and talented in IT; and</p> <p>(b) Enriched IT Activities Programme — to provide funding support for all secondary schools in Hong Kong to organise various types of IT activities to create more opportunities for students to learn about IT outside the school curriculum with an aim to foster an IT learning atmosphere in schools and cultivate students’ interest in IT.</p>	75	40	<p>(a) Around 1 000 secondary students</p> <p>(b) Around 20 000 student participants</p>	<p>(a) 8 secondary schools</p> <p>(b) 142 secondary schools</p>

As at end-February 2019, free Wi-Fi service with over 780 hotspots are provided at 170 study rooms and youth service centres under the subsidy scheme of “Providing Public Wi-Fi Services in Study Rooms and Youth Service Centres”. OGCIO monitors the usage of

Wi-Fi service in these study rooms and youth service centres through the monthly reports submitted by the subsidised non-profit-making organisations.

OGCIO has reviewed the effectiveness of ILSP and the performance of the implementers after the completion of the programme in end-August 2018. The performance of the two implementers, namely WebOrganic and BGCA, has met the planned targets. Based on the experience gained from the programme implementation, the two organisations continue to provide low-income families and students with Internet learning support services from the 2018/19 school year onwards.

OGCIO conducted an interim review on EITP in the second half of 2018, and consulted various stakeholders, including teachers, students and their parents who had participated in the programme, secondary school councils, tertiary institutions, the IT industry and IT-education related associations. The stakeholders generally agreed that students' participation in IT activities outside the school curriculum could help arouse their interest in learning IT and cultivate their creativity and logical thinking. Many of them expressed that the programme should cover all secondary schools so as to further strengthen and promote popular IT learning. As such, the 2019-20 Budget proposed that \$500 million be set aside to implement the "IT Innovation Lab in Secondary Schools" initiative, and a maximum funding support of \$1 million be provided in the 3 school years from 2019/20 to 2021/22 to each publicly-funded secondary school to procure IT equipment and organise IT-related extra-curricular activities.

- End -

CONTROLLING OFFICER'S REPLY

ITB186

(Question Serial No. 5699)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards, (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

On “launching the IT Innovation Lab in Secondary Schools initiative under the Enriched IT Programme in Secondary Schools to stimulate students’ interest and enhance their understanding in IT through extra-curricular activities”, will the Bureau advise on the details of the programme, including the application conditions, the amount of funding for each school, the ways or restrictions of using the funding, the financial arrangements for applying for the funding, the estimated expenditure as well as the estimated numbers and job nature of posts to be created for the programme? In this connection, will the Bureau also provide teaching materials and additional manpower to assist schools in operating the Lab and providing quality education? If yes, what are the details? If not, what are the reasons?

Asked by: Hon IP Kin-yuen (LegCo internal reference no.: 219)

Reply:

The Office of the Government Chief Information Officer (OGCIO) plans to launch the “IT Innovation Lab in Secondary Schools” initiative before the end of 2019, which will provide a maximum funding of \$1 million to each publicly-funded secondary school in Hong Kong in the 3 school years from 2019/20 to 2021/22 to procure information technology (IT) equipment and professional services, and organise and participate in IT-related extra-curricular activities (ECA) (such as workshops, seminars, short courses, visiting local exhibitions, participating in local and international competitions, etc.).

In applying for the funding, schools may draw up a proposal under the “IT Innovation Lab in Secondary Schools” initiative taking into account their actual situation and the needs of their students. The proposal should include IT equipment and professional services to be procured, relevant ECA to be organised and the funding required. OGCIO will be responsible for vetting and approving the applications, and disbursing the funding required accordingly each year.

We will make reference to the Education Bureau’s arrangements of ECA subsidy schemes to enable schools to procure suitable tutorial support services or arrange time-limited

manpower to assist in the planning work, such as engaging coding instructors or relevant technology experts, etc. with the funding of the “IT Innovation Lab in Secondary Schools” initiative. Schools may also choose the professional services available in the market according to their actual situation.

OGCIO will issue application guidelines and reference list of IT equipment, and set up a one-stop support centre to provide advice to schools and teachers on the relevant professional services and IT-related ECA.

OGCIO will create 7 time-limited civil service posts to implement this initiative. The estimated annual expenditure is \$11.6 million, mainly for the operating costs of programme management, scheme administration and one-stop support centre, etc.

- End -

CONTROLLING OFFICER'S REPLY

ITB187

(Question Serial No. 0916)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Government proposed in this year's Budget to deploy \$500 million to implement the IT Innovation Lab in Secondary Schools Programme in the coming 3 school years and each secondary school benefiting will be granted \$1 million. In this connection, will the Government inform this Committee of the following:

- (1) The disbursement method of the funding (in a lump sum or in phases);
- (2) Will the Government provide schools with guidelines on how to use the funding, and require schools to account for the actual uses of the grant of \$1 million and the specific benefits for teaching in the form of annual written reports so as to ensure the proper use of the funding? If yes, what are the details? If not, what are the reasons?
- (3) Given the huge size of information technology equipment related to artificial intelligence, blockchain, cloud computing and big data, etc., has the Government, before working out details of this programme, consulted secondary schools on whether they have sufficient space to accommodate those equipment and whether their teachers have sufficient expertise to guide students in using those equipment? If yes, what are the form and results of the consultations? If not, what are the reasons?

Asked by: Hon IP LAU Suk-ye, Regina (LegCo internal reference no.: 24)

Reply:

The required information is provided as follows:

- (1) The Office of the Government Chief Information Officer (OGCIO) will disburse the funding required each year in accordance with the annual proposals that are submitted by schools and approved.
- (2) OGCIO will issue application guidelines and reference list of IT equipment to schools, and set up a one-stop support centre to assist participating schools in setting up IT Innovation Lab, including providing advice to schools on formulating annual

proposals, procuring IT equipment/professional services and organising relevant extra-curricular activities (ECA). Schools will be required to submit an annual report to OGCIO on the expenditure for and usage of the procured equipment and services.

- (3) In general, IT equipment does not occupy much space. Schools may also consider using software facilities such as virtual servers, programming and data analytics tools, etc. that are provided through cloud service. Moreover, it is not necessary for the IT-related ECA to be conducted only in classrooms or labs. As for the latest development of some new technologies such as artificial intelligence, blockchain and big data, the one-stop support centre of OGCIO will provide professional advice and support to schools on these technology areas to assist them in choosing professional services available in the market and designing suitable activities.

OGCIO will seek the views and suggestions of secondary school councils and professional bodies about this programme in early April this year.

- End -

CONTROLLING OFFICER'S REPLY

ITB188

(Question Serial No. 0771)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

On encouraging the elderly to acquire digital skills, please inform this Committee of the following:

1. What were the amount of funding and the number of participating elders under the ICT Outreach Programme for the Elderly in the past 5 years? How would the effectiveness of the Programme be assessed?
2. As the Government regularised the ICT Outreach Programme for the Elderly in 2018/19, will the Government allocate additional resources to benefit more elderly people and people in need? If yes, what is the amount of expenditure involved?
3. Under Matters Requiring Special Attention of this year, the Office of the Government Chief Information Officer indicates that a web-based learning portal will be launched to help the elderly and people in need acquire digital skills. What are the details, staff establishment and expenditure involved?

Asked by: Hon LAU Ip-keung, Kenneth (LegCo internal reference no.: 14)

Reply:

The required information is provided as follows:

1. The Office of the Government Chief Information Officer (OGCIO) has launched 3 rounds of ICT Outreach Programme for the Elderly (Outreach Programme) from 2014 to 2018 to provide funding support to non-governmental organisations (NGOs) for teaching elderly people to use tablets and other mobile devices. The total amount of funding for the Outreach Programme was around \$3.3 million, benefiting a total of more than 5 700 institutionalised elderly people, and those receiving day care centre and home care services.

We have set performance targets, which included coverage of districts by activities, number of residential care homes and care centres participating in the programme, and

number of elderly beneficiaries, etc., with the funded NGOs. Assessments showed that all of them met the performance targets. In addition, the post-activity surveys conducted by the related organisations showed that over 80% of the elderly respondents were satisfied with the programme.

2. In 2018-19, OGCIO has regularised the Outreach Programme and launched a new Enriched ICT Training Programme for the Elderly (Training Programme) through the district networks of Elder Academies to provide the elderly with knowledge to adopt digital technology in their daily living. The new round of the Outreach Programme and the Training Programme, both having duration of 2 years, have been launched in December 2018 and February 2019 respectively. It is expected that around 10 000 elders will be benefited. The estimated expenditure is around \$20 million.
3. OGCIO will launch the web-based learning portal in the fourth quarter of 2019 and produce about 15 learning modules in phases, including online shopping, using e-Government services, cyber security, using cloud-based tools and social media, etc., to enable more elderly people and those in need to learn digital technology in daily living. The portal will also provide training in an interactive manner (such as virtual reality videos, interactive quizzes, etc.). The estimated expenditure for setting up the portal is around \$3 million. The manpower involved for managing the portal is met by internal deployment within OGCIO.

- End -

CONTROLLING OFFICER'S REPLY**ITB189****(Question Serial No. 1354)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The "Government Wi-Fi" ("GovWiFi") programme provides free Wi-Fi service mainly at government venues with high patronage. It is announced in the 2016 Policy Address that the Government will progressively expand the coverage of Wi-Fi.HK by doubling the number of hotspots to 34 000 within 3 years, and the speed of Wi-Fi connection at government venues will be progressively enhanced. However, there are still complaints about slow connection speed of the service and even service disconnection from time to time. Please list out the 10 locations of Wi-Fi.HK hotspots with the highest number of public complaints in the past year, the respective numbers and nature of complaints, measured connection speed, as well as the improvement measures taken.

Asked by: Hon LEE Wai-king, Starry (LegCo internal reference no.: 26)

Reply:

In 2018, information on the complaints related to the "Wi-Fi.HK" hotspots at government venues is as follows:

Venue/ Hotspot location	Number of complaints	Major details of complaint
Hong Kong Central Library	3	Unable to connect and weak signal
Yuen Chau Kok Public Library	3	Weak signal and unstable connection
Tai Po Sports Centre	3	Unable to connect, weak signal and no service coverage
Mong Kok Cooked Food Market	2	Unable to connect
Po On Road Public Library	2	Unable to connect
Tuen Mun Public Library	2	Unable to connect
Shing Mun Valley Park	2	Unable to connect
Other 32 locations (each received 1 complaint)	1	Unable to connect or weak signal

After receiving the complaints, we inspected the service immediately and have taken follow-up actions accordingly. We have also carried out various enhancements on the provision of Wi-Fi service at government venues in 2018-19, including improving the display of hotspot signage at proper locations, adopting the latest technology standard (IEEE 802.11ac) and using fibre network for enhancing the speed and stability of data transmission. The connection speed of the Wi-Fi service at government venues, including the above venues/hotspot locations, has already exceeded 10 Mbps, marking a significant increase over the previous average speed of 3-4 Mbps. We will inspect the transmission speed and usage of the Wi-Fi service at government venues regularly, and adjust the bandwidth and number of hotspots at the venues when necessary to ensure the quality of the Wi-Fi service.

As for the “Wi-Fi.HK” hotspots operated by service operators as well as public and private organisations at non-government venues, we do not have the related complaint figures.

- End -

CONTROLLING OFFICER'S REPLY

ITB190

(Question Serial No. 2009)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The estimated number of bureaux and departments (B/Ds) with IT plans in place for 2019-20 is 66, which is the same as the actual number in 2018. Please advise why there are no additional B/Ds with IT plans in place, and why the percentage of IT projects completed on schedule remains at around 70%.

Asked by: Hon LIAO Cheung-kong, Martin (LegCo internal reference no.: 42)

Reply:

At present, about 80% of bureaux and departments (B/Ds) have formulated information technology (IT) plans according to their business needs, and the remaining B/Ds have no such needs in 2019. Regardless of whether B/Ds have IT plans in place, they will implement various IT projects, including those IT strategies and initiatives promoted by the Office of the Government Chief Information Officer (OGCIO), such as opening up government data and adopting electronic identity (eID) in e-Government services.

In the past two years, nearly 70% of government IT projects were completed on schedule. Project delays generally arose from longer time taken to formulate the business needs by B/Ds, and to conduct system design and tendering exercises, as well as the quality of the contractor's deliverables not meeting contractual requirements, etc. Since 2016, OGCIO has taken measures to improve the situation, including taking B/Ds' performance in completing projects on schedule into account in approving their new funding applications from the block allocation under Capital Works Reserve Fund Head 710 Computerisation, and informing B/Ds' management of the progress of their projects quarterly to raise their attention.

- End -

CONTROLLING OFFICER'S REPLY

ITB191

(Question Serial No. 2010)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Matters Requiring Special Attention under Use of IT in Government in 2019-20 include the implementation of the Government's online one-stop service portal with artificial intelligence and chatbot functions. Please advise whether such functions are developed by the Government independently or sourced from the industry. If they are developed independently by the Office of the Government Chief Information Officer, please provide the details of the manpower, operational expenditure and work involved.

Asked by: Hon LIAO Cheung-kong, Martin (LegCo internal reference no.: 43)

Reply:

The Office of the Government Chief Information Officer (OGCIO) is implementing the chatbot function that adopts artificial intelligence technology to facilitate the public to search and access e-Government services on the GovHK portal. In this project, the industry will be invited to provide technical solutions through outsourcing arrangement, and OGCIO will be responsible for project management, procurement of outsourcing services, coordination and liaison with related bureaux/departments on testing and implementation. The contract for the chatbot service is expected to be awarded in mid-2019 and the service is expected to be launched at the end of 2019.

The annual operating cost for the chatbot is about \$650,000 and the manpower involved for related work will be met by internal deployment within OGCIO.

- End -

CONTROLLING OFFICER'S REPLY

ITB192

(Question Serial No. 2011)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Matters Requiring Special Attention under the Use of IT in the Government in 2019-20 include setting up a Smart Government Innovation Lab to promote adoption of innovative IT products and solutions offered by the local industry in various public services. Please provide the manpower involved, operational expenses and timetable for this item as well as the selection criteria for the adoption of technology products of the local industry.

Asked by: Hon LIAO Cheung-kong, Martin (LegCo internal reference no.: 44)

Reply:

The Office of the Government Chief Information Officer (OGCIO) will establish the Smart Government Innovation Lab (Smart Lab) in April 2019 to conduct trials and technology testing in collaboration with government departments on information technology (IT) solutions which address their business needs. The “Smart Lab” will also showcase technologies that have been successfully tested by government departments, such as chatbot, virtual reality, geospatial technology, etc., with a view to inspiring wider adoption among government departments.

Besides, OGCIO will set up the “Smart Lab” thematic website to share the challenges being faced by different public services, and invite the industry to submit technology solutions and product suggestions for addressing such challenges. OGCIO will organise technology forums in collaboration with Cyberport and Hong Kong Science Park for the industry players to share their technology solutions and success stories, and how these technologies can be used to improve public services. Local start-ups and small and medium enterprises joining the forums can better understand and appreciate the business needs of government departments, and submit proposals to the “Smart Lab” for addressing different city management challenges. We aim to organise the first technology forum in June 2019, and then hold it on a quarterly basis. OGCIO will upload the technology solutions and suggestions received to the “Smart Lab” thematic website and arrange thematic workshops for government departments so that they could better understand the solutions and products

that suit their needs, and conduct trials and technology testing for suitable solutions in the “Smart Lab”.

In selecting solutions for trials and testing, departments will take into account factors such as the costs of the solutions and whether the solutions can effectively address the challenges faced by the related public services. Departments will formulate their procurement requirements based on the results of the trial and technology testing as well as their needs.

The estimated expenditure for the “Smart Lab” in 2019-20 is about \$4.9 million. OGCIO will create 4 IT professional civil service posts for the related work.

- End -

CONTROLLING OFFICER'S REPLY

ITB193

(Question Serial No. 2012)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The aim of this Programme is to provide Hong Kong with the information technology (IT) infrastructure, standards, legal framework and talent. Regarding the provision of legal framework, are there any other concrete measures, e.g. removing red tape for IT-related legislation, apart from commencing a review of the Electronic Transactions Ordinance in 2019-20?

Asked by: Hon LIAO Cheung-kong, Martin (LegCo internal reference no.: 45)

Reply:

The information requested is provided as follows:

The Office of the Government Chief Information Officer is reviewing the provisions of the Electronic Transactions Ordinance to ensure that the local legal framework can align with the implementation of the “electronic identity” (eID) and the latest development in the adoption of relevant technology, with a view to promoting the wider adoption of electronic transactions in different sectors.

The review of legislation and regulations that impede the development of innovation and technology (I&T) and economic development is one of the eight major areas for I&T development in the Government. The Policy Innovation and Co-ordination Office (PICO) has commenced the related work. PICO will consider the views and suggestions in respect of this review that have been raised by different stakeholders including the industry and service users, and will consult the relevant policy bureaux and departments in order to determine the scope and priority for the review.

- End -

CONTROLLING OFFICER'S REPLY**ITB194****(Question Serial No. 0206)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Office of the Government Chief Information Officer (OGCIO) is responsible for the development of a shared big data infrastructure to facilitate bureaux and departments in developing and operating data analytics applications. In this connection, please advise on the following:

1. The Government's staff establishment and estimated expenditure in this regard for 2018-19 and 2019-20 respectively;
2. The main outcome of OGCIO's work in providing support to government departments and private sectors to open up more data and develop more application programming interfaces on the government open data portal "data.gov.hk" in 2018-19, and the new initiatives in 2019-20.

Asked by: Hon LO Wai-kwok (LegCo internal reference no.: 18)

Reply:

1. In 2018-19 and 2019-20, the staff establishment and estimated expenditure of the Office of the Government Chief Information Officer (OGCIO) for the implementation of the Big Data Analytics Platform are as follows:

Year	Staff Establishment ^{Note}	Estimated Expenditure (\$ million)
2018-19	<ul style="list-style-type: none"> ◆ One Senior Systems Manager ◆ One Systems Manager ◆ One Analyst/Programmer I ◆ One Analyst/Programmer II 	1.46
2019-20	<ul style="list-style-type: none"> ◆ One Senior Systems Manager ◆ One Systems Manager ◆ One Analyst/Programmer I ◆ One Analyst/Programmer II 	8.22

Note: In addition to the development of the Big Data Analytics Platform, the staff involved also provides data analytics advisory services for other government departments.

2. In 2018-19, OGCIO announced a new open data policy and implementation measures to drive bureaux and departments (B/Ds) and encourage public and private organisations to open up more data on the Public Sector Information (PSI) Portal for free use by the public. In accordance with the requirements of the new open data policy, B/Ds promulgated their first annual open data plans in December 2018. In 2018-19 (as of end-February 2019), around 160 new datasets and 50 application programming interfaces (APIs) were released on the PSI Portal. In addition, 4 new public and private organisations (the Hong Kong Examinations and Assessment Authority, the “Star” Ferry Company, Limited, the Hong Kong Computer Emergency Response Team Coordination Centre and the Hong Kong and China Gas Company Limited) have opened up their data on the PSI Portal.

In 2019-20, OGCIO will continue to promote and coordinate with B/Ds in updating their annual open data plans and it is estimated that around 580 datasets and 80 APIs will be added to the PSI Portal. Besides, OGCIO will implement City Dashboard feature on the PSI Portal by the end of 2019 to facilitate the public to view the city data of traffic, weather, environment, etc. opened up on the PSI Portal.

- End -

CONTROLLING OFFICER'S REPLY

ITB195

(Question Serial No. 1766)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

On establishing the Next Generation Government Cloud and Big Data Analytics Platform, please advise on the following:

- (1) The contractor(s) and the expenditure for engaging contractor(s) for the Next Generation Government Cloud and Big Data Analytics Platform;
- (2) The number and content of the datasets of the “Digital Highway” of the shared big data infrastructure, and the number and content of the data involving personal data;
- (3) The content, departments involved and government service areas of the applications and big data analytics projects to be supported by this project in tabular form;
- (4) The details, datasets and departments involved for the big data analytics projects of “artificial intelligence cognitive tools” to be adopted;
- (5) The number, posts, expenditure and contract terms of the contract IT staff to be engaged for this project.

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 1)

Reply:

The required information is provided as follows:

- (1) The Office of the Government Chief Information Officer (OGCIO) is conducting an open tender exercise for the implementation of the “Next Generation Government Cloud”. We cannot provide any information about the contractor and the contract at this moment. The contractor for implementing the “Big Data Analytics Platform” is Nexify Limited and the contract value is around \$3.8 million.
- (2) The “Digital Highway” under the “Big Data Analytics Platform” is still at the implementation stage. The first batch of data planned to use the “Digital Highway” for information transmission include those real-time data related to traffic, weather and environment, etc. collected through the Multi-functional Smart Lampposts. Such data will not involve personal information.

- (3) and (4) The “Next Generation Government Cloud” will provide cloud infrastructure services for use by bureaux/departments (B/Ds). The 260 e-Government services and application systems under 47 B/Ds currently running on the 3 existing central cloud platforms will be progressively migrated to the new platform when it comes into operation (the details are at Annex I). In addition, 7 large-scale information technology (IT) system projects to be implemented by 6 B/Ds will also use the new platform (the details are at Annex II).

The “Big Data Analytics Platform” will provide big data analytics tools, artificial intelligence cognitive tools, and parallel computing management system, etc. to facilitate B/Ds to implement big data analytics projects in various areas, such as traffic, weather, environment, etc. The Big Data Analytics Platform will commence operation in the third quarter of 2020. It is expected that 5 big data analytics projects will be implemented each year on average in the coming few years. The relevant details are to be confirmed.

- (5) OGCIO will engage 16 contract IT staff with relevant technical skills and experience to assist in the development, implementation and management of the “Next Generation Government Cloud and Big Data Analytics Platform”, and the contract periods of these staff will depend on the tasks involved. The estimated expenditure for engaging the related staff in 2019-20 is \$12.4 million.

E-Government Services and Application Systems to be Migrated from the Existing Central Cloud Platforms to the “Next Generation Government Cloud”

No.	Bureau / Department	Service Area	e-Government Service / Application System
1.	Architectural Services Department	Architectural	Automated Communication, Technical Information and Operations Network System
2.	Buildings Department	Development	Buildings Department Webpage Searching Functions
3.	Customs and Excise Department	Import and Export Trade	Dutiable Commodities System
4.	Customs and Excise Department	Import and Export Trade	Trade Single Window
5.	Customs and Excise Department	Import and Export Trade	Currency and Bearer Negotiable Instruments Declaration System
6.	Census and Statistics Department	Statistics	Email Notification Service
7.	Census and Statistics Department	Statistics	Hong Kong Statistics - Browse by Subject
8.	Census and Statistics Department	Statistics	Hong Kong Statistics - Search for Tables, Publications and Other Products
9.	Census and Statistics Department	Statistics	Finding Commodity Code
10.	Commerce and Economic Development Bureau	Government Administration	Electronic Recordkeeping System
11.	Companies Registry	Companies Registration	Trust and Company Service Providers Licensing System Website of the Companies Registry
12.	Civil Service Bureau	Civil Service	CSB606 - Online Application System for Designated Staff Grades
13.	Civil Service Bureau	Civil Service	Job Opportunities System
14.	Civil Service Bureau	Civil Service	Online Application for Common Recruitment Examinations and Basic Law Test (Degree/Professional Grades)
15.	Civil Service Bureau	Civil Service	G.F.340 Online Application System
16.	Civil Service Bureau	Civil Service	Government Vacancies Enquiry System
17.	Civil Service Bureau	Civil Service	“Government Vacancies” Mobile Application
18.	Civil Service Bureau	Civil Service	e-Leave Application
19.	Administration Wing under the Chief Secretary for Administration’s Office	Government Administration	Administrative Appeals Board

No.	Bureau / Department	Service Area	e-Government Service / Application System
20.	Administration Wing under the Chief Secretary for Administration's Office	Government Administration	Electronic Recordkeeping System of the Administration Wing of the Chief Secretary for Administration's Office
21.	Administration Wing under the Chief Secretary for Administration's Office	Government Administration	Municipal Services Appeal Board
22.	Department of Health	Public Health	Fixed Penalty Smoking Offences Information System
23.	Department of Health	Public Health	Radioactive Substances and Irradiating Apparatus Licensing Service
24.	Department of Health	Public Health	Provision of Personal Radiation Monitoring Services
25.	Department of Health	Public Health	Pre-engagement and Regular Medical Examination of Radiation Workers
26.	Department of Health	Public Health	Permits to Transport Radioactive Substances
27.	Department of Health	Public Health	Record System for blood lead level and follow-up action
28.	Department of Health	Public Health	Child Health Service Booking System
29.	Department of Health	Public Health	School Portal for Student Immunisation
30.	Department of Health	Public Health	Cervical Screening Information System
31.	Department of Health	Public Health	Public Health Information System
32.	Education Bureau	Education	Web-based Learning and Teaching Support
33.	Efficiency Office	Management Consultancy	General Management Consultancy Services Portal
34.	Electrical & Mechanical Services Department	Electrical & Mechanical	I&T Solutions
35.	Environmental Protection Department	Environmental Protection	Electronic Transaction System (ETS-2) for the Operation of the Environmental Impact Assessment Ordinance (EIAO)
36.	Environmental Protection Department	Environmental Protection	Application for Environmental Permit (Form 4)
37.	Environmental Protection Department	Environmental Protection	Application for variation of an Environmental Permit (Form 5)
38.	Environmental Protection Department	Environmental Protection	Surrender of Environmental Permit (Form 7)
39.	Environmental Protection Department	Environmental Protection	Supplementary Information under Sections 4(5), 5(4) and 8(1) of EIAO
40.	Environmental Protection Department	Environmental Protection	Application for Further Environmental Permit (Form 6)
41.	Environmental Protection Department	Environmental Protection	EV Charger RMU System

No.	Bureau / Department	Service Area	e-Government Service / Application System
42.	Food and Environmental Hygiene Department	Food Safety and Public Health	Online Licence Services - Food and Environmental Hygiene Department - General Restaurant Licence
43.	Food and Environmental Hygiene Department	Food Safety and Public Health	Online Licence Services - Food and Environmental Hygiene Department - Light Refreshment Restaurant Licence
44.	Food and Environmental Hygiene Department	Food Safety and Public Health	Online Licence Services - Food and Environmental Hygiene Department - Marine Restaurant Licence
45.	Food and Environmental Hygiene Department	Food Safety and Public Health	Online Licence Services - Food and Environmental Hygiene Department - Food Factory Licence
46.	Food and Environmental Hygiene Department	Food Safety and Public Health	Online Licence Services - Food and Environmental Hygiene Department - Bakery Licence
47.	Food and Environmental Hygiene Department	Food Safety and Public Health	Online Licence Services - Food and Environmental Hygiene Department - Factory Canteen Licence
48.	Food and Environmental Hygiene Department	Food Safety and Public Health	Online Licence Services - Food and Environmental Hygiene Department - Frozen Confection Factory Licence
49.	Food and Environmental Hygiene Department	Food Safety and Public Health	Online Licence Services - Food and Environmental Hygiene Department - Fresh Provision Shop Licence
50.	Food and Environmental Hygiene Department	Food Safety and Public Health	Online Licence Services - Food and Environmental Hygiene Department - Milk Factory Licence
51.	Food and Environmental Hygiene Department	Food Safety and Public Health	Online Licence Services - Food and Environmental Hygiene Department - Siu Mei and Lo Mei Shop Licence
52.	Food and Environmental Hygiene Department	Food Safety and Public Health	Online Licence Services - Food and Environmental Hygiene Department - Cold Store Licence
53.	Food and Environmental Hygiene Department	Food Safety and Public Health	Online Licence Services - Food and Environmental Hygiene Department - Composite Food Shop Licence
54.	Food and Environmental Hygiene Department	Food Safety and Public Health	Online Licence Services - Food and Environmental Hygiene Department - Outside Seating Accommodation Permission
55.	Food and Environmental Hygiene Department	Food Safety and Public Health	Online Licence Services - Liquor Licensing Board
56.	Food and Health Bureau	Food Safety and Public Health	Electronic Grant Management System

No.	Bureau / Department	Service Area	e-Government Service / Application System
57.	Food and Health Bureau	Food Safety and Public Health	Online Submission for Healthcare Recipient (Patient) Registration
58.	Fire Services Department	Fire Services	FSD e-Services for General Public
59.	Government Logistics Department	Government Logistics	Internal Information of Government Logistics Department
60.	Government Records Service	Government Administration	Electronic Recordkeeping System of the Government Records Service
61.	Home Affairs Department	Home Affairs	Online Licence Services - Home Affairs Department
62.	Home Affairs Department	Home Affairs	Enquiry of Voter Registration Information
63.	Home Affairs Department	Home Affairs	Central Platform for Election Advertisements
64.	Home Affairs Department	Home Affairs	Database of Private Buildings in Hong Kong
65.	Hong Kong Police Force	Police Services	Case Management and Investigation System - e-Report Centre
66.	Hong Kong Police Force	Police Services	JPC & SPC Online Portal
67.	Hong Kong Police Force	Police Services	Online Booking System for Sexual Conviction Record Check, Certificate of No Criminal Conviction and Criminal Conviction Data Access
68.	Immigration Department	Immigration Services	Application for Search of Record of Death in Hong Kong
69.	Immigration Department	Immigration Services	Application for a Certified Copy of an Entry in the Deaths Register
70.	Immigration Department	Immigration Services	Application for Search of Record of Birth in Hong Kong
71.	Immigration Department	Immigration Services	Application for a Certified Copy of an Entry in the Births Register
72.	Immigration Department	Immigration Services	Application for Search of Marriage Records in Hong Kong and/or Issue of Certified Copy of Marriage Certificate
73.	Immigration Department	Immigration Services	Application for HKSAR Passport (For persons 16 years of age or above applying in Hong Kong)
74.	Immigration Department	Immigration Services	Application for HKSAR Passport (For persons 16 years of age or above applying outside Hong Kong)

No.	Bureau / Department	Service Area	e-Government Service / Application System
75.	Immigration Department	Immigration Services	Book an Appointment to Apply for Travel Documents (For all persons except newborn babies within 42 days after the day of birth)
76.	Immigration Department	Immigration Services	Payment Status Enquiry / Transaction Status Enquiry
77.	Immigration Department	Immigration Services	Appointment Booking for Giving of Notice of Intended Marriage
78.	Immigration Department	Immigration Services	Appointment Booking for Hong Kong Smart Identity Card
79.	Immigration Department	Immigration Services	Notification of Premature Termination of Employment Contracts of Foreign Domestic Helpers
80.	Immigration Department	Immigration Services	Application for Access to General Information
81.	Immigration Department	Immigration Services	Application for Access to Information with Personal Data
82.	Immigration Department	Immigration Services	Appointment Booking for Birth Registration
83.	Immigration Department	Immigration Services	Online Reporting of Immigration Offences
84.	Immigration Department	Immigration Services	Application for Verification of Eligibility for Permanent Identity Card
85.	Immigration Department	Immigration Services	Change of / Enquiry about Appointment for Document Verification related to Application for Verification of Eligibility for Permanent Identity Card
86.	Immigration Department	Immigration Services	Supplementary Document Submission
87.	Immigration Department	Immigration Services	Submission of Information Required for Registration of Marriage
88.	Immigration Department	Immigration Services	Application Status Enquiry
89.	Immigration Department	Immigration Services	Appointment Booking for Applying Extension of Stay
90.	Immigration Department	Immigration Services	Appointment Booking for Collection of HKSAR Passport or Document of Identity for Visa Purposes
91.	Immigration Department	Immigration Services	Application for Extension of Stay
92.	Immigration Department	Immigration Services	Application for HKSAR Passport (For children 11 years to 15 years of age applying in Hong Kong)

No.	Bureau / Department	Service Area	e-Government Service / Application System
93.	Immigration Department	Immigration Services	Application for HKSAR Passport (For children 11 years to 15 years of age applying outside Hong Kong)
94.	Immigration Department	Immigration Services	Book an Appointment to Apply for Travel Documents (Only for Hong Kong-born babies within 42 days after the day of birth)
95.	Immigration Department	Immigration Services	Submission of Information Required for Registration of Birth
96.	Immigration Department	Immigration Services	Pre-arrival Registration for Taiwan Residents
97.	Immigration Department	Immigration Services	Pre-arrival Registration for Taiwan Residents (Enquiry)
98.	Immigration Department	Immigration Services	Application for Entry under the Admission Scheme for the Second Generation of Chinese Hong Kong Permanent Residents
99.	Immigration Department	Immigration Services	Online Application for Certificate of Absence of Marriage Record
100.	Immigration Department	Immigration Services	Pre-Arrival Registration Service for Foreign Nationals
101.	Immigration Department	Immigration Services	Pre-Arrival Registration Service for Foreign Nationals Detailed Enquiry
102.	Immigration Department	Immigration Services	Pre-Arrival Registration Service for Foreign Nationals Simple Enquiry
103.	Immigration Department	Immigration Services	Pre-Arrival Registration Services for Foreign Nationals Simple Enquiry (Mobile)
104.	Immigration Department	Immigration Services	Appointment Booking for Hong Kong Smart Identity Card
105.	Immigration Department	Immigration Services	Pre-fill Form Processing for Hong Kong Smart Identity Card
106.	Immigration Department	Immigration Services	Pre-fill Form Processing for Hong Kong Smart Identity Card (For Applicants in Register Office)
107.	Immigration Department	Immigration Services	Pre-fill Form Processing for Hong Kong Smart Identity Card (For One Way Permit Holders)
108.	Immigration Department	Immigration Services	Tag Status
109.	Immigration Department	Immigration Services	Appointment Booking for Hong Kong Smart Identity Card Replacement Exercise

No.	Bureau / Department	Service Area	e-Government Service / Application System
110.	Immigration Department	Immigration Services	Pre-fill Form Processing for Hong Kong Smart Identity Card Replacement Exercise
111.	Immigration Department	Immigration Services	Enquiry on Hong Kong Smart Identity Card Application Status
112.	Intellectual Property Department	Intellectual Property	Intellectual Property Database for Guangdong, Hong Kong and Macao
113.	Intellectual Property Department	Intellectual Property	IP Teen City
114.	Inland Revenue Department	Tax	eTax
115.	Inland Revenue Department	Tax	Change of Business Registration Particulars
116.	Inland Revenue Department	Tax	Business Registration Number Enquiry and Supply of Information on the Business Register
117.	Inland Revenue Department	Tax	Application for Business or Branch Registration
118.	Inland Revenue Department	Tax	Obtain Confirmation of Payment
119.	Inland Revenue Department	Tax	Obtain Tax Return - Individuals in Paper Form / Request Duplicate Notice in Paper Form
120.	Inland Revenue Department	Tax	View Tax Position - Assessment
121.	Inland Revenue Department	Tax	View Tax Position - Payment
122.	Inland Revenue Department	Tax	View Tax Position - Tax Return
123.	Inland Revenue Department	Tax	View Tax Position - Tax Reserve Certificate Account
124.	Inland Revenue Department	Tax	Viewing of Property Tax Return for Jointly Owned Properties (BIR57)
125.	Inland Revenue Department	Tax	Stamping of Property Document
126.	Inland Revenue Department	Tax	Purchase of Tax Reserve Certificate
127.	Inland Revenue Department	Tax	Filing of Tax Return - Individuals
128.	Inland Revenue Department	Tax	Filing of Property Tax Return for Jointly Owned Properties (BIR57)
129.	Inland Revenue Department	Tax	Request to Amend Tax Assessment and/or Provisional Tax

No.	Bureau / Department	Service Area	e-Government Service / Application System
130.	Inland Revenue Department	Tax	Block Extension Scheme for Lodgement of Tax Returns for the Current Year by Tax Representatives
131.	Inland Revenue Department	Tax	Completion and/or Submission of Employer's Return
132.	Inland Revenue Department	Tax	Stock Borrowing Relief
133.	Inland Revenue Department	Tax	Application for Exemption from Payment of Business Registration Fee and Levy
134.	Inland Revenue Department	Tax	AEOI Portal
135.	Inland Revenue Department	Tax	CbC Reporting Portal
136.	Information Services Department	News and Communications	Online Government Bookstore
137.	Information Services Department	News and Communications	Government Photo Store
138.	Legal Aid Department	Legal Aid	Download Legal Aid Panel Forms
139.	Legal Aid Department	Legal Aid	Submit Legal Aid Panel Form
140.	Legal Aid Department	Legal Aid	e-Report (Download)
141.	Legal Aid Department	Legal Aid	e-Report (Submit)
142.	Legal Aid Department	Legal Aid	Download Pre-Application Information Form (e-Form)
143.	Legal Aid Department	Legal Aid	Submit Pre-Application Information Form (e-Form)
144.	Legal Aid Department	Legal Aid	Access Personal Information (Update Profile)
145.	Legal Aid Department	Legal Aid	Means Test Calculator
146.	Lands Department	Lands	GeoInfo Map
147.	Lands Department	Lands	GeoMobile Map HK
148.	Lands Department	Lands	MyMapHK app
149.	Lands Department	Lands	Slope Maintenance Responsibility Information System
150.	Lands Department	Lands	VoiceMapHK
151.	Labour Department	Labour Matters	Work Injury Compensation Enquiry Service
152.	Labour Department	Labour Matters	Medical Clearance Appointment Booking
153.	Labour Department	Labour Matters	Interactive Employment Service of Labour Department
154.	Labour Department	Labour Matters	Interactive Selective Placement Service of the Selective Placement Division of Labour Department

No.	Bureau / Department	Service Area	e-Government Service / Application System
155.	Labour Department	Labour Matters	“Job Easy” Vacancy Search Terminal of Labour Department
156.	Labour Department	Labour Matters	Online Enquiry / Complaint form
157.	Labour Department	Labour Matters	Online Enquiry Submission Box (Labour Relations Division)
158.	Lands Registry	Land Registration	Caring and Sharing Scheme Management System
159.	Labour and Welfare Bureau	Social Welfare	Online Application for “Registration Card for People with Disabilities”
160.	Office of the Government Chief Information Officer	Information Technology	Application Servers for Mail System
161.	Office of the Government Chief Information Officer	Information Technology	Pilot application on Blockchain technology
162.	Office of the Government Chief Information Officer	Information Technology	Central Cyber Government Office - Apphost
163.	Office of the Government Chief Information Officer	Information Technology	CCC Inventory System and CCC CMDB Application
164.	Office of the Government Chief Information Officer	Information Technology	Central Computer Centre File Database Virtual Machine
165.	Office of the Government Chief Information Officer	Information Technology	CCC Helpdesk Management System
166.	Office of the Government Chief Information Officer	Information Technology	Central Computer Centre Network Services
167.	Office of the Government Chief Information Officer	Information Technology	Central Computer Centre Thermal Monitoring System
168.	Office of the Government Chief Information Officer	Information Technology	Confidential Mail System
169.	Office of the Government Chief Information Officer	Information Technology	Disaster Recovery Services for Central Computer Centre
170.	Office of the Government Chief Information Officer	Information Technology	Government Communication Network
171.	Office of the Government Chief Information Officer	Information Technology	Government Cloud Infrastructure monitoring system

No.	Bureau / Department	Service Area	e-Government Service / Application System
172.	Office of the Government Chief Information Officer	Information Technology	Government-Wide Phishing Campaign Drill
173.	Office of the Government Chief Information Officer	Information Technology	Internet Mail Exchange Service
174.	Office of the Government Chief Information Officer	Information Technology	IT Service Management Tools for CCC
175.	Office of the Government Chief Information Officer	Information Technology	Information Technology Service Management Platform
176.	Office of the Government Chief Information Officer	Information Technology Infrastructure (Applicable to different service areas)	Big Data Analytics Platform
177.	Office of the Government Chief Information Officer	Information Technology	Special Finance Committee Question and Answer System
178.	Office of the Government Chief Information Officer	Information Technology	SOA-DCS Charging Rate and Contractor Performance Index Enquiry System
179.	Office of the Government Chief Information Officer	Information Technology	Web Content Hosting Service
180.	Office of the Government Chief Information Officer	Information Technology	Pilot Collaborative Project Workspace System
181.	Office of the Government Chief Information Officer	Information Technology	Change of Address Service
182.	Office of the Government Chief Information Officer	Information Technology	GovHK e-CardHK
183.	Office of the Government Chief Information Officer	Information Technology	GovHK Online Forms
184.	Office of the Government Chief Information Officer	Information Technology	Mobile Access to Government Telephone Directory
185.	Office of the Government Chief Information Officer	Information Technology	GovHK Online Survey Service

No.	Bureau / Department	Service Area	e-Government Service / Application System
186.	Office of the Government Chief Information Officer	Information Technology	Unsolicited Electronic Messages Management System
187.	Office of the Government Chief Information Officer	Information Technology	Approved Charitable Fund-Raising Activities
188.	Office of the Government Chief Information Officer	Information Technology	Event HK
189.	Office of the Government Chief Information Officer	Information Technology	Tell me@1823
190.	Office of the Government Chief Information Officer	Information Technology	GovHK Notifications
191.	Office of the Government Chief Information Officer	Information Technology	MyGovHK
192.	Office of the Government Chief Information Officer	Information Technology	Registration of Outbound Travel Information
193.	Office of the Government Chief Information Officer	Information Technology	data.gov.hk
194.	Office of the Government Chief Information Officer	Information Technology	GovHK App
195.	Office of the Government Chief Information Officer	Information Technology	Pay e-Cheque
196.	Office of the Government Chief Information Officer	Information Technology	Electronic Information Management
197.	Office of the Government Chief Information Officer	Information Technology	Quality Professional Services Information System
198.	Office of the Government Chief Information Officer	Information Technology	Common Shared Services - Collaborative Workspace System
199.	Official Receiver's Office	Bankruptcy / Winding-up Service	Bankruptcy and Compulsory Winding-up Records - Individual Search
200.	Official Receiver's Office	Bankruptcy / Winding-up Service	Compulsory Winding-up Records - Batch Search

No.	Bureau / Department	Service Area	e-Government Service / Application System
201.	Planning Department	Planning	Comments on Planning Application / Review
202.	Planning Department	Planning	Comments on Representation Relating to Draft Plan
203.	Planning Department	Planning	Further Representation in Respect of Proposed Amendments to Draft Plan
204.	Planning Department	Planning	Representation Relating to Draft Plan
205.	Planning Department	Planning	Making Comments on Draft Urban Renewal Authority Development Scheme Plan
206.	Planning Department	Planning	Electronic Planning Application Submission System
207.	Registration and Electoral Office	Registration and Electoral	Application for Voter Registration
208.	Registration and Electoral Office	Registration and Electoral	Provision / Updating of E-mail Addresses from Registered Electors
209.	Registration and Electoral Office	Registration and Electoral	Online Voter Information Enquiry System - Individual Elector
210.	Registration and Electoral Office	Registration and Electoral	Online Voter Information Enquiry System - Body Elector
211.	Rating and Valuation Department	Rating and Valuation	eRVD Bill Service
212.	Rating and Valuation Department	Rating and Valuation	Enquiry on the Rates and/or Government Rent Balance of a Specific Account of a Property
213.	Rating and Valuation Department	Rating and Valuation	Change of Rates and/or Government Rent Payer's Particulars
214.	Rating and Valuation Department	Rating and Valuation	Electronic Submission of Forms (RVD e-Forms)
215.	Social Welfare Department	Social Welfare	Application for Pamphlets
216.	Social Welfare Department	Social Welfare	Online Request for Family Life Education Pamphlets in Family Life Education Resource Centre (FLERC)
217.	Social Welfare Department	Social Welfare	FLERC
218.	Social Welfare Department	Social Welfare	Online Application for FLERC Membership Card Replacement
219.	Social Welfare Department	Social Welfare	Online Renewal of FLERC Resource Materials
220.	Social Welfare Department	Social Welfare	Online Reservation of FLERC Resource Materials
221.	Social Welfare Department	Social Welfare	Online Application for FLERC Membership Renewal

No.	Bureau / Department	Service Area	e-Government Service / Application System
222.	Social Welfare Department	Social Welfare	Online Application for FLERC Membership Withdrawal
223.	Transport Department	Transport	Appointment Booking Service for Vehicle Licence Renewal, Full Driving Licence Renewal and Application for International Driving Permit - Book Appointment
224.	Transport Department	Transport	Appointment Booking Service for Vehicle Licence Renewal, Full Driving Licence Renewal and Application for International Driving Permit - Enquire Appointment
225.	Transport Department	Transport	Appointment Booking Service for Vehicle Licence Renewal, Full Driving Licence Renewal and Application for International Driving Permit - Change or Cancel Appointment
226.	Transport Department	Transport	Online Checking of Driving Licence Status
227.	Transport Department	Transport	Expression of Interest for Regular Quota for Hong Kong Private Car to Macao
228.	Transport Department	Transport	Appointment Booking Service for Application for Closed Road Permit for the HongKong-Zhuhai-Macao Bridge (HZMB) Macao Port Park-and-Ride Scheme
229.	Transport Department	Transport	Online Application for Renewal of Full Driving Licence
230.	Transport Department	Transport	Vehicle Annual Examination Appointment Booking
231.	Transport Department	Transport	Vehicle Annual Examination Appointment Re-scheduling
232.	Transport Department	Transport	Reprint Acknowledgement Letter
233.	Transport Department	Transport	Designated Car Testing Centres Booking Status Enquiry
234.	Transport Department	Transport	Government Examination Centres Booking Status Enquiry
235.	Transport Department	Transport	Application for Renewal of Vehicle Licence
236.	Transport Department	Transport	Enquiry about Availability of Traditional Vehicle Registration Mark for Auction
237.	Transport Department	Transport	Online Services for Personalised Vehicle Registration Marks

No.	Bureau / Department	Service Area	e-Government Service / Application System
238.	Transport Department	Transport	Application for Reservation of Traditional Vehicle Registration Mark for Auction
239.	Transport Department	Transport	Application for Certificate of Vehicle Particulars
240.	Transport Department	Transport	Online Booking for Driving Tests
241.	Transport Department	Transport	Electronic Transmission of Insurance Data
242.	Transport Department	Transport	Application for Personalised Vehicle Registration Marks
243.	Transport Department	Transport	Online Deposit Payment for Personalised Vehicle Registration Marks
244.	Transport Department	Transport	Online Booking for Repeater Early Test Appointment (including enquiry or cancellation of repeater early test appointment reservation)
245.	Transport Department	Transport	Online Checking System for Hire Car Permit
246.	Transport Department	Transport	Type Approval Related Application
247.	Transport Department	Transport	Pre-Registration Examination Appointment Booking
248.	Transport Department	Transport	Parallel Imported Vehicles by Individuals Examination Appointment Booking
249.	Transport Department	Transport	Domestic Non-franchised Bus Services for the Hong Kong Port of HZMB
250.	Transport Department	Transport	Lantau Permit Information System II
251.	The Treasury	Treasury	Resilience Treasury Domino Mail System
252.	The Treasury	Treasury	Electronic General Demand Note (e-GDN) Enquiry
253.	The Treasury	Treasury	General Demand Note (GDN) Enquiry on Due Date and Outstanding Amount
254.	University Grants Committee Secretariat	University Grants	Research Assessment Exercise Administration System

No.	Bureau / Department	Service Area	e-Government Service / Application System
255.	Development Bureau, Buildings Department, Civil Engineering and Development Department, Drainage Services Department, Housing Department, Highways Department, Lands Department, Leisure and Cultural Services Department, Planning Department, Transport Department, Water Supplies Department	Development	Sites Tracking Information System
256.	Working Family and Student Financial Assistance Agency, Inland Revenue Department, Social Welfare Department	Working Family and Student Financial Assistance	Working Family Allowance Management System
257.	Working Family and Student Financial Assistance Agency, Lands Registry, Inland Revenue Department, Social Welfare Department	Working Family and Student Financial Assistance	Caring and Sharing Scheme Management System
258.	Intellectual Property Department, Office of the Government Chief Information Officer	Government Administration	Electronic Recordkeeping System
259.	Architectural Services Department, Marine Department, Office of the Government Chief Information Officer	Government Administration	Electronic Recordkeeping System

No.	Bureau / Department	Service Area	e-Government Service / Application System
260.	Civil Engineering and Development Department, Office of the Government Chief Information Officer	Government Administration	Electronic Recordkeeping System

**Large-scale IT System Projects to be Implemented
in the “Next Generation Government Cloud”**

No.	Bureau / Department	Service Area	Project Description
1.	Social Welfare Department	Social Welfare	Redevelopment of Service Performance Management Information System
2.	Social Welfare Department	Social Welfare	Redevelopment of Client Information System
3.	Buildings Department	Development	Electronic Submission Hub
4.	Census and Statistics Department	Statistics	Information Technology Equipment and Services for the 2021 Population Census
5.	Leisure and Cultural Services Department	Leisure and Cultural Services	Development of Smart Library System
6.	Department of Health	Health	Information Technology Enhancement Project of the Department of Health (covering 35 projects)
7.	Office of the Government Chief Information Officer	Information Technology Infrastructure (Applicable to different service areas)	eID system

- End -

CONTROLLING OFFICER'S REPLY

ITB196

(Question Serial No. 1767)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Hong Kong strives to develop itself into a data centre hub in Asia to grasp the enormous opportunities arising from the demand for data storage and analysis under the data economy. However, the persistent imbalance in land demand and supply for data centre development has seriously impeded the development of the local data centre industry. Regarding the provision of sites for promoting high-end data centre development, please advise on the following:

- (1) What are the Government's work plan, the manpower and resources required for the land supply for high-end data centre development in the coming 3 years? What are the timetable, locations, area and construction floor area of the site(s) for disposal?
- (2) How many applications for converting industrial buildings to data centres and for developing high-end data centres on industrial lots did the Government receive last year?
- (3) Will comprehensive study be conducted on the long-term provision of sites for data centres, including the time, resources and supporting infrastructure required for developing high-end data centres in caverns, Kwu Tung North New Development Area, Hung Shui Kiu New Development Area, etc., so that earlier planning can be made for the digital infrastructure required for the development of digital economy and smart city, and attract more investment from foreign enterprises?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 2)

Reply:

In consultation with relevant departments, the required information is provided as follows:

- (1) In 2013 and 2018, the Government disposed 3.7 hectares (ha) of land in Tseung Kwan O for high-tier data centre development through open tender. The Office of the Government Chief Information Officer is working with the Planning Department to identify other suitable land for high-tier data centre development.

- (2) In 2018, the Government received 2 applications for converting parts of industrial buildings for data centre use and 1 application for developing high-tier data centres on existing industrial lots.

- (3) Digital infrastructures are the critical foundations for the development of digital economy and smart city. The Government has reserved land within New Development Areas (NDAs) for supporting the development of innovative and high-end technology industries. These include about 11.7 ha and 5.8 ha of land at Kwu Tung North NDA designated as “Business and Technology Park” and “Research and Development” uses respectively, as well as about 9 ha of land at Hung Shui Kiu NDA designated as “Enterprise and Technology Park” use. The above land is suitable for different innovative and technology development purposes including data centres. Besides, the Government’s Cavern Master Plan has delineated the locations of strategic cavern areas in the territory with a list of land uses having potential for development in rock caverns, including data centre development.

- End -

CONTROLLING OFFICER'S REPLY**ITB197****(Question Serial No. 1768)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the promotion of adopting the common shared services for the Electronic Recordkeeping System (ERKS) implemented and hosted on government cloud platforms by bureaux and departments (B/Ds), please advise on the following:

- (1) When will a long-term development plan for the full implementation of ERKS be formulated? When will a timetable be set and more resources be allocated for the implementation of ERKS in all policy bureaux and departments?
- (2) Please provide the details of ERKS (as at 28 February 2019):

B/D	The Year Commencing the Use of ERKS	Development and Operating Expenditure (\$)	Number of Users	Number of Records in ERKS

- (3) What are the timetable, specific objectives, estimated expenditure and manpower for taking forward the implementation of ERKS in B/Ds in 2019-20?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 3)

Reply:

The required information is provided as follows:

- (1)&(3) The Government will formulate a long-term development plan in 2019-20 for the full implementation of the Electronic Recordkeeping System (ERKS), with reference to the experience and effectiveness of implementing ERKS in the past. The work will not involve additional manpower and expenditure. ERKS of the Marine Department will be implemented in phases in 2019-20 and the related work will be absorbed by internal deployment of manpower.

(2) Details of the ERKS implemented by bureaux and departments (B/Ds) (as at 28 February 2019):

B/D	The Year Commencing the Use of ERKS	Development and Operating Expenditure (\$)	Number of Users	Number of Records in ERKS
Government Records Service	2014	Development cost: 11.8 million Annual operating expenditure: 0.9 million	130	691 000
Intellectual Property Department	2016	Development cost: 14.9 million Annual operating expenditure: 2.7 million (Note 1)	200	41 000
Office of the Government Chief Information Officer	2016		1 000	159 000
Commerce and Economic Development Bureau (Communications and Creative Industries Branch)	2018	Development cost: 1.6 million Annual operating expenditure: not yet available (Note 2)	70	141 000
Administration Wing	2016	Development cost: 5.5 million Annual operating expenditure: 1.01 million	160	110 000
Civil Engineering and Development Department	2017	Development cost: 10.9 million Annual operating expenditure: 3.1 million	1 500	749 000
Architectural Services Department	2018	Development cost: 13.6 million Annual operating expenditure: 2.0 million (Note 1)	200	3 900
Marine Department	2019 (planned)		750	(Note 3)

Note:

1. The contract covers the implementation and the maintenance and support services for the ERKS of the two departments.
2. The Commerce and Economic Development Bureau (Communications and Creative Industries Branch) started using ERKS hosted on the cloud platform since the end of 2018, and is migrating the records of the old system to the new system. The operating expenditure is not yet available.
3. The ERKS has not been rolled out. The figure is not yet available.

- End -

CONTROLLING OFFICER'S REPLY**ITB198****(Question Serial No. 1769)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

What are the plan, timetable, estimated expenditure and manpower for the project of application of artificial intelligence (AI), including chatbot, to be implemented in 2019-20? What are the criteria for the Government to consider whether to introduce AI to enhance public services?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 4)

Reply:

Projects adopting artificial intelligence (AI) (including chatbots) to be implemented by bureaux/departments (B/Ds) in 2019-20 include:

Project name/Description	Department	Launch date (Tentative)	Estimated expenditure (\$ million)	Manpower Resources
1. Kerbside Loading and Unloading Bay Monitoring System: to study the use of video analytics technology to monitor improper use of kerbside loading and unloading bays and conduct trial run in Kowloon East	Energizing Kowloon East Office (EKEO)/ Development Bureau	4 th quarter of 2019 (on-site trial commenced in August 2018)	1.5	By internal deployment

Project name/Description	Department	Launch date (Tentative)	Estimated expenditure (\$ million)	Manpower Resources
2. Revamp of 1823 Website and Implementation of Chatbot Service: to enable the public to use 1823 service conveniently and access information more efficiently	Efficiency Office	4 th quarter of 2019	7.3	By internal deployment
3. Implementation of chatbot functions adopting AI on the “GovHK” portal: to facilitate the public to search for and use e-Government services	Office of the Government Chief Information Officer (OGCIO)	4 th quarter of 2019	5.6	By internal deployment
4. Implementation of the second phase of the Cyber Risk Information Sharing Platform: to collect real-time information from different sources and identify potential cyber attacks against government information systems through dynamic threat data analytics model, so as to issue early security advice to the departments concerned	OGCIO	1 st quarter of 2020	5.5	By internal deployment
5. Feasibility study on an automation system for the collection, classification and association of cyber crime data	Hong Kong Police Force	1 st quarter of 2020	6.8	By internal deployment
6. Study on the development of a Cargo Big Data System: to enhance the risk management capability of the Customs and Excise Department in cargo clearance	Customs and Excise Department	3 rd quarter of 2020	9.8	By internal deployment

Project name/Description	Department	Launch date (Tentative)	Estimated expenditure (\$ million)	Manpower Resources
7. Implementation of Big Data Analytics Platform that adopts AI	OGCIO	3 rd quarter of 2020	69	4 Analyst/ Programmer grade staff (Note)
8. Illegal Parking Monitoring System: to study the feasibility of monitoring illegal parking with video analytics technology for trial run in Kowloon East and San Po Kong	EKEO/ Development Bureau	3 rd quarter of 2020 (on-site trial commenced in March 2019)	3.7	By internal deployment
9. Pilot Chatbot Service for Provision of Weather Information	Hong Kong Observatory	4 th quarter of 2020 (a trial version to be launched in the 1 st quarter of 2020)	2.9	By internal deployment

(Note): In addition to Implementation of Big Data Analytics Platform, the staff involved also provides data analytics advisory services for various B/Ds.

The Government will consider adopting AI technology in public services taking into account the operations of individual public services and experience of other countries or cities. OGCIO will closely monitor the above situation and actively explore the feasibility of adopting AI technology in public services with B/Ds.

- End -

CONTROLLING OFFICER'S REPLY

ITB199

(Question Serial No. 1770)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in the Budget that (the Government) is planning for the use of the Faster Payment System (FPS) to provide the public with greater convenience in paying taxes, rates and water charges, and individual departments will examine the feasibility of accepting payments through FPS at their shroff counters. On enhancing e-government services and encouraging departments to adopt electronic/mobile payment service for the convenience of the public, will the Government advise on the following:

- (1) The government departments that have adopted electronic wallet (e-wallet) mobile payment technology in 2018-19, the number of public services/mobile applications involved and their percentage against all services;
- (2) The government services that have planned to adopt mobile payment technology such as FPS and e-wallet as well as the expenditure and manpower involved;
- (3) Will a timetable be drawn up in the long run to drive the development of smart city and enhance e-government services so as to support electronic/mobile payments made by the public?
- (4) What is the amount of expenditure earmarked for the User Experience Research and Usability Test on electronic public services, government web pages or mobile apps in 2019-20?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 5)

Reply:

The required information is provided as follows:

- (1) As of 2018-19, the following two e-Government services/mobile applications have adopted e-wallet mobile payment technology solutions (including Apple Pay and Google Pay), accounting for around 6% of all e-Government services that support online payment:

- (a) “My Library” of the Leisure and Cultural Services Department; and
 - (b) “Property Information Online” of the Rating and Valuation Department.
- (2) In 2019-20, the following 8 e-Government services will provide e-wallet mobile payment functions:
- (a) “Electronic Search Services” of the Companies Registry;
 - (b) “e-Registry” of the Companies Registry;
 - (c) “CR eFiling” of the Companies Registry;
 - (d) “Register of Trust or Company Service Provider Licensees” of the Companies Registry;
 - (e) “Next Generation Electronic Services System” of the Immigration Department;
 - (f) “Leisure Link” of the Leisure and Cultural Services Department;
 - (g) “Integrated Registration Information System” of the Land Registry; and
 - (h) “e-Form Submission of Notice of New Letting or Renewal Agreement” of the Rating and Valuation Department.

On the other hand, the Government is planning for the use of the Faster Payment System (FPS) to facilitate the public to pay taxes, rates and water charges. This service is expected to be launched in the fourth quarter of 2019.

The above services will be implemented by the departments concerned (including the Inland Revenue Department, Rating and Valuation Department and Water Supplies Department) with their existing resources and manpower. The Transport Department, Immigration Department and Leisure and Cultural Services Department are also studying the feasibility of accepting payments through FPS at their shroff counters.

- (3) The Office of the Government Chief Information Officer (OGCIO) has developed a suite of reference modules supporting different electronic/mobile payment services for adoption by bureaux/departments (B/Ds) in their e-Government services to enable the public to settle payment through electronic/mobile payment means. OGCIO will continue to encourage and promote wider adoption of mobile payment technology solutions by B/Ds in their e-Government services with a view to providing the public with more convenient payment methods.
- (4) In 2019-20, OGCIO has reserved around \$600,000 to carry out user experience study for individual thematic clusters on the “GovHK” portal to continuously enhance “GovHK” service and user experience.

- End -

CONTROLLING OFFICER'S REPLY

ITB200

(Question Serial No. 1771)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the employment of information technology (IT) staff by the Government, please advise on the following:

- (1) The numbers of staff employed through IT staff service contract (T25) for government bureaux and departments (B/Ds) at present (by department)

B/D	Staff Category and Number of T-contract Staff	Total Number of T-contract Staff

- (2) The details of the 15 contractors participating in the T25 contract at present (by contractor)

Contractor	Number of T-contract Staff Provided (by post)	Total Service Fee of the Contract (Please also provide the percentage change against the T24 contract value, if applicable)

- (3) The details of salaries payable to T-contract staff by T25 contractors (by contractor and post of T-contract staff)

Contractor	Post and Number of T-contract Staff	Salary Range of Each Post

- (4) The benefits offered to T-contract staff by T25 contractors (by contractor and type of benefits)

Contractor	Benefits Offered	Number of T-contract Staff who Enjoy the Benefits (and the percentage against the total number of T-contract staff provided by the contractor)

- (5) Average years of service and average salaries of T-contract staff in B/Ds (by post)

Post	Average Year of Service	Average Monthly Salary (including allowances)

- (6) Average years of service and average salaries of civil service IT staff in B/Ds (by post)

Post	Average Year of Service	Average Monthly Salary (including allowances)

- (7) The numbers of civil service IT staff in B/Ds in 2018-19 (in descending order by staff number)

B/D	Chief Systems Manager, Senior Systems Manager and Systems Manager (and the percentage change against 2017-18)	Analyst/ Programmer I (and the percentage change against 2017-18)	Analyst/ Programmer II (and the percentage change against 2017-18)	Total Number (and the percentage change against 2017-18)

- (8) The numbers of full-time Non-Civil Service Contract (NCSC) staff providing IT support in B/Ds in 2018-19 (in descending order by staff number)

B/D	Chief Systems Manager, Senior Systems Manager and Systems Manager (and the percentage change against 2017-18)	Analyst/ Programmer I (and the percentage change against 2017-18)	Analyst/ Programmer II (and the percentage change against 2017-18)	Total Number (and the percentage change against 2017-18)

	2017-18)			

- (9) The total numbers of T-contract staff engaged by B/Ds through T-contractors, and the year-on-year percentage change;
- (10) The increase in the civil service IT establishment, and the corresponding decrease in the number of T-contract positions in B/Ds over the past 3 years (by year);
- (11) The Government indicates that “to step up the monitoring of T-contract services, T-contractors are required to submit regular reports on their compliance with the contract provisions during the term of T25 contract”. Please provide the details of the above. If no information is available, please provide the plan, timetable, etc. of the Government’s inspections;
- (12) Did the Office of the Government Chief Information Officer issue any Notice of Default to contractors who had breached contract provisions during the term of the T24 contract? If yes, please provide the numbers and the information of the contractors.

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 6)

Reply:

The required information is provided as follows:

- (1) As at end-February 2019, the numbers of staff engaged through T-contractors (T-contract staff) by bureaux and departments (B/Ds) are at **Annex I**.
- (2) T25 contract has commenced since February 2019 for a period of 48 months at an estimated total contract value of about \$7,900 million. As compared with T24 contract, the average service fee payable by the Government to T25 contractors has increased around 5% to 6% in general. The 15 contractors, which have been awarded T25 contract through open tender, are at **Annex II**.

The information on the numbers of T-contract staff employed by individual T-contractors to serve in the Government and their respective contract service fees is the commercial information of the contractors, and it is not appropriate for the Government to disclose the details.

- (3) & (4) T-contract staff are employees of T-contractors. T-contractors will determine the remuneration packages of T-contract staff having regard to their individual academic qualifications, professional skills and experience, as well as prevailing manpower market conditions. The information on the remuneration packages offered by individual T25 contractors to their T-contract staff is the commercial information of the contractors, and it is not appropriate for the Government to disclose the details.

Besides, to ensure better remuneration packages for T-contract staff, new provisions have been included in T25 contract, requiring all T-contractors to pay T-contract staff

of the “Programmer” category a monthly wage not lower than the latest available “Median monthly wage by industry section: All employees” for the industry of “Information and Communications” as published by the Census and Statistics Department. T-contractors shall also pay T-contract staff of the staff categories above “Programmer” a monthly wage higher than the wage payable to the “Programmer” category in the same month. Furthermore, T25 contractors are contractually obliged to fulfil their commitments in offering T-contract staff remuneration packages more favourable than the provisions in the Employment Ordinance in various areas.

The Office of the Government Chief Information Officer (OGCIO) will disseminate information on the average service fees paid to T25 contractors (and update it on a half-yearly basis), and the yearly progress of T25 contractors in enhancing the remuneration packages of T-contract staff as a whole, the rate of salary adjustment, etc. through the “data.gov.hk” portal from mid-2019.

- (5) As at end-February 2019, the average lengths of service of T-contract staff engaged by B/Ds are as follows:

Staff Category	Average Length of Service ^{Note 1}
Senior Project Manager	10.8
Project Manager	6.6
Senior Systems Analyst	7.8
Systems Analyst	5.5
Analyst/Programmer	3.7
Programmer/Junior Programmer	2.2
Senior Information Technology Assistant/Information Technology Assistant	3.4

Note 1: Length of service refers to the number of years of service provided by individual T-contract staff to the same B/D, during which the staff concerned may not be working in the same staff category and responsible for the same assignment.

T-contract staff are employees of T-contractors. OGCIO does not have the information on the average monthly salaries of T-contract staff.

- (6) As at end-December 2018, the average years of service and salaries of civil service IT staff in B/Ds are as follows:

Rank	Average Years of In-rank Service	Monthly Salary ^{Note 2} (\$)
Chief Systems Manager	3.8	144,100 – 157,700
Senior Systems Manager	5.4	112,250 – 129,325
Systems Manager	6.7	70,590 – 105,175

Rank	Average Years of In-rank Service	Monthly Salary ^{Note 2} (\$)
Analyst/Programmer I	8.1	55,705 – 70,090
Analyst/Programmer II	1.7	31,685 – 53,195

Note 2: According to the prevailing civil service pay scales.

- (7) As at end-December 2018, the numbers of civil service IT staff in B/Ds are at **Annex III**.
- (8) As at end-December 2018, the numbers of full-time ^{Note 3} Non-Civil Service Contract (NCSC) staff providing IT support in B/Ds are at **Annex IV**.

Note 3: “Full-time” means the employment is on a “continuous contract” as defined by the Employment Ordinance, i.e. an employee works continuously for the same employer for 4 weeks or more, with at least 18 hours per week.

- (9) In the past 3 years, the total numbers of T-contract staff engaged by B/Ds through T-contractors, and the year-on-year rates of change of such figures are as follows:

As at	Total Number	Rate of Change
31 December 2016	2 760	+6%
31 December 2017	2 890	+5%
31 December 2018	3 140	+9%

- (10) In the past 3 years, the total numbers of new civil service IT posts in the Analyst/Programmer Grade and Computer Operator Grade approved for creation in B/Ds are as follows:

Year	Number of New Civil Service Posts
2016-17	73
2017-18	130
2018-19	189
Total:	392

Taking into consideration the long-term operational and service needs, about 190 amongst the above new posts were for replacement of T-contract positions.

- (11) OGCIO requested T25 contractors to submit regular monthly reports on their compliance with the contract terms (including the progress of enhancing the remuneration packages of T-contract staff, the rate of salary adjustments, etc.), and will conduct random checks of relevant records on a half-yearly basis to ensure that the contractors fulfill their contractual obligations.

(12) During the T24 contract period, OGCIO had not found any T-contractor having violated the contract terms.

**Numbers of T-contract staff engaged through T25 contractors by B/Ds
(position as at end-February 2019)**

B/D	Senior Project Manager and Project Manager	Senior Systems Analyst and Systems Analyst	Analyst/ Programmer, Programmer and Junior Programmer	Senior Information Technology Assistant and Information Technology Assistant	Total
Agriculture, Fisheries and Conservation Department	4	6	12	9	31
Architectural Services Department	-	6	9	-	15
Auxiliary Medical Service	-	-	1	-	1
Buildings Department	5	9	5	5	24
Census and Statistics Department	2	11	2	4	19
Chief Secretary for Administration's Office	-	4	5	-	9
Civil Aid Service	-	1	-	-	1
Civil Aviation Department	4	7	13	-	24
Civil Engineering and Development Department	1	7	12	1	21
Civil Service Bureau	-	6	6	1	13
Commerce and Economic Development Bureau (Commerce, Industry and Tourism Branch)	-	3	2	-	5

B/D	Senior Project Manager and Project Manager	Senior Systems Analyst and Systems Analyst	Analyst/ Programmer, Programmer and Junior Programmer	Senior Information Technology Assistant and Information Technology Assistant	Total
Commerce and Economic Development Bureau (Communications and Creative Industries Branch)	-	1	-	1	2
Companies Registry	5	15	4	1	25
Constitutional and Mainland Affairs Bureau	1	3	-	-	4
Correctional Services Department	3	6	1	-	10
Create Hong Kong	-	3	-	-	3
Customs and Excise Department	5	66	46	20	137
Development Bureau (Planning and Lands Branch)	-	3	1	1	5
Development Bureau (Works Branch)	1	11	7	7	26
Drainage Services Department	-	7	6	3	16
Education Bureau	4	53	77	27	161
Electrical and Mechanical Services Department	-	18	12	7	37
Environmental Protection Department	4	33	36	-	73

B/D	Senior Project Manager and Project Manager	Senior Systems Analyst and Systems Analyst	Analyst/ Programmer, Programmer and Junior Programmer	Senior Information Technology Assistant and Information Technology Assistant	Total
Financial Services and the Treasury Bureau (Financial Services Branch)	-	-	-	1	1
Financial Services and the Treasury Bureau (The Treasury Branch)	-	1	3	-	4
Fire Services Department	1	11	10	9	31
Food and Environmental Hygiene Department	6	54	44	7	111
Food and Health Bureau	1	5	1	-	7
Government Flying Service	-	3	-	1	4
Government Laboratory	1	2	-	-	3
Government Logistics Department	1	7	4	3	15
Government Property Agency	-	2	-	-	2
Department of Health	22	76	49	39	186
Highways Department	-	3	4	-	7
Home Affairs Bureau	-	2	4	-	6
Home Affairs Department	-	4	6	3	13
Hong Kong Observatory	-	4	24	-	28
Hong Kong Police Force	5	63	65	20	153

B/D	Senior Project Manager and Project Manager	Senior Systems Analyst and Systems Analyst	Analyst/ Programmer, Programmer and Junior Programmer	Senior Information Technology Assistant and Information Technology Assistant	Total
Housing Department	9	114	31	12	166
Immigration Department	10	52	14	24	100
Information Services Department	2	3	8	3	16
Inland Revenue Department	3	48	53	-	104
Innovation and Technology Bureau	1	2	2	-	5
Innovation and Technology Commission	2	1	-	-	3
Intellectual Property Department	2	4	-	-	6
Invest Hong Kong	-	1	-	1	2
Judiciary	9	86	26	18	139
Department of Justice	2	20	14	9	45
Labour and Welfare Bureau	-	3	-	1	4
Labour Department	4	23	77	12	116
Land Registry	3	18	2	1	24
Lands Department	1	17	26	29	73
Legal Aid Department	1	1	6	-	8
Leisure and Cultural Services Department	5	39	33	24	101
Marine Department	-	7	12	2	21

B/D	Senior Project Manager and Project Manager	Senior Systems Analyst and Systems Analyst	Analyst/ Programmer, Programmer and Junior Programmer	Senior Information Technology Assistant and Information Technology Assistant	Total
Office of the Communications Authority	-	-	6	1	7
Office of the Government Chief Information Officer	38	209	56	1	304
Official Receiver's Office	-	3	1	-	4
Planning Department	1	4	14	-	19
Policy Innovation and Co-ordination Office	-	1	1	-	2
Post Office	4	33	38	1	76
Radio Television Hong Kong	-	4	7	-	11
Rating and Valuation Department	-	11	5	3	19
Registration and Electoral Office	2	9	10	2	23
Security Bureau	-	3	-	-	3
Social Welfare Department	5	52	29	4	90
Trade and Industry Department	-	10	8	2	20
Transport and Housing Bureau	-	1	-	-	1
Transport Department	11	26	22	14	73
Treasury	1	20	42	-	63
Water Supplies Department	-	1	10	6	17

B/D	Senior Project Manager and Project Manager	Senior Systems Analyst and Systems Analyst	Analyst/ Programmer, Programmer and Junior Programmer	Senior Information Technology Assistant and Information Technology Assistant	Total
Working Family and Student Financial Assistance Agency	2	29	50	8	89
Total :	194	1 371	1 074	348	2 987

List of T25 Contractors

Chandler Macleod Group (HK) Limited
CL Technical Services Limited
EDPS Systems Limited
Global Executive Consultants Limited
ICO Limited
InfoTech Services (Hong Kong) Limited
IT People Limited
IT Solutions Limited
Kelly Services Hong Kong Limited
Manpower Services (Hong Kong) Limited
Optimum Solutions (Singapore) Pte Ltd
Peoplebank Hong Kong Limited
Seamatch Asia Limited
Speedy Group Corp. Limited
Taylor Coulter Limited

**Numbers of Civil Service IT Staff in B/Ds
(position as at end-December 2018)**

() Contains percentage change as compared to the number of staff as at 31 December 2017

(-) Indicates no change

(N/A) The B/D concerned did not have any civil service staff in respective rank as at 31 December 2017 and the year-on-year percentage change is not applicable

B/D	Chief Systems Manager, Senior Systems Manager and Systems Manager	Analyst/ Programmer I	Analyst/ Programmer II	Total
Office of the Government Chief Information Officer	116 (+7%)	164 (+19%)	67 (-17%)	347 (+6%)
Hong Kong Police Force	16 (+7%)	33 (+38%)	45 (-8%)	94 (+7%)
Immigration Department	15 (-)	26 (+24%)	19 (-14%)	60 (+3%)
Housing Department	9 (+29%)	22 (-8%)	15 (+88%)	46 (+18%)
Department of Health	12 (-8%)	10 (+67%)	12 (-20%)	34 (-)
Treasury	7 (+17%)	15 (+15%)	11 (+10%)	33 (+14%)
Judiciary	13 (-)	6 (-14%)	13 (+86%)	32 (+19%)
Education Bureau	7 (-13%)	11 (+22%)	12 (+50%)	30 (+20%)
Inland Revenue Department	6 (-14%)	12 (+9%)	12 (-8%)	30 (-3%)
Customs and Excise Department	6 (+50%)	16 (-)	7 (-)	29 (+7%)
Social Welfare Department	6 (-40%)	10 (+11%)	13 (+18%)	29 (-3%)
Leisure and Cultural Services Department	7 (+17%)	9 (+50%)	12 (+33%)	28 (+33%)
Census and Statistics Department	3 (-)	13 (+30%)	9 (-25%)	25 (-)
Working Family and Student Financial Assistance Agency	5 (+25%)	5 (+25%)	11 (-8%)	21 (+5%)

B/D	Chief Systems Manager, Senior Systems Manager and Systems Manager	Analyst/ Programmer I	Analyst/ Programmer II	Total
Rating and Valuation Department	3 (+50%)	12 (+33%)	5 (-38%)	20 (+5%)
Land Registry	4 (-20%)	7 (+75%)	7 (+40%)	18 (+29%)
Post Office	7 (+17%)	5 (-17%)	5 (+67%)	17 (+13%)
Civil Service Bureau	2 (+100%)	7 (+40%)	7 (-22%)	16 (+7%)
Companies Registry	3 (-)	6 (+100%)	7 (+17%)	16 (+33%)
Marine Department	4 (-)	4 (+33%)	7 (-13%)	15 (-)
Food and Environmental Hygiene Department	5 (+25%)	3 (+50%)	6 (+50%)	14 (+40%)
Hong Kong Observatory	1 (N/A)	2 (-33%)	10 (+11%)	13 (+8%)
Security Bureau	4 (+33%)	5 (+25%)	4 (-20%)	13 (+8%)
Commerce and Economic Development Bureau (Commerce, Industry and Tourism Branch)	7 (+17%)	2 (+100%)	3 (+200%)	12 (+50%)
Food and Health Bureau	6 (-)	2 (-33%)	4 (+100%)	12 (+9%)
Planning Department	3 (-)	5 (+150%)	4 (-)	12 (+33%)
Chief Secretary for Administration's Office	2 (-)	5 (-)	4 (+33%)	11 (+10%)
Trade and Industry Department	2 (-)	5 (+67%)	4 (-20%)	11 (+10%)
Buildings Department	2 (-)	3 (+50%)	5 (-)	10 (+11%)
Department of Justice	3 (+50%)	5 (+67%)	2 (-50%)	10 (+11%)
Labour Department	3 (-)	3 (-)	3 (+50%)	9 (+13%)

B/D	Chief Systems Manager, Senior Systems Manager and Systems Manager	Analyst/ Programmer I	Analyst/ Programmer II	Total
Correctional Services Department	1 (-50%)	4 (+300%)	3 (+200%)	8 (+100%)
Transport Department	2 (-33%)	3 (+50%)	3 (-)	8 (-)
Registration and Electoral Office	3 (+50%)	2 (N/A)	2 (-50%)	7 (+17%)
Water Supplies Department	1 (-)	6 (+200%)	0 (-100%)	7 (+40%)
Home Affairs Department	2 (N/A)	4 (-)	0 (-100%)	6 (+20%)
Lands Department	1 (-)	4 (-)	1 (-)	6 (-)
Commerce and Economic Development Bureau (Communications and Creative Industries Branch)	2 (+100%)	2 (-)	1 (-50%)	5 (-)
Development Bureau (Works Branch)	1 (-)	3 (+50%)	1 (-67%)	5 (-17%)
Environmental Protection Department	1 (-)	2 (-)	2 (-)	5 (-)
Home Affairs Bureau	1 (-)	2 (-)	2 (-)	5 (-)
Official Receiver's Office	2 (+100%)	2 (+100%)	1 (N/A)	5 (+150%)
Agriculture, Fisheries and Conservation Department	2 (-)	1 (-)	1 (-)	4 (-)
Development Bureau (Planning and Lands Branch)	1 (-)	0 (-100%)	3 (+50%)	4 (-)
Drainage Services Department	2 (+100%)	1 (N/A)	1 (-50%)	4 (+33%)
Electrical and Mechanical Services Department	1 (-)	0 (-)	3 (-)	4 (-)
Fire Services Department	1 (-)	1 (N/A)	2 (N/A)	4 (+300%)

B/D	Chief Systems Manager, Senior Systems Manager and Systems Manager	Analyst/ Programmer I	Analyst/ Programmer II	Total
Government Logistics Department	2 (+100%)	2 (-)	0 (-100%)	4 (-)
Information Services Department	1 (-50%)	2 (-)	1 (-)	4 (-20%)
Labour and Welfare Bureau	1 (-)	1 (-)	2 (-)	4 (-)
Transport and Housing Bureau (Transport Branch)	1 (-)	1 (-)	2 (-)	4 (-)
Financial Services and the Treasury Bureau (The Treasury Branch)	1 (-)	1 (-)	1 (-)	3 (-)
Innovation and Technology Bureau	1 (N/A)	2 (N/A)	0 (-100%)	3 (+200%)
Intellectual Property Department	1 (-)	2 (N/A)	0 (-100%)	3 (+50%)
Legal Aid Department	2 (-)	1 (-)	0 (-100%)	3 (-25%)
Constitutional and Mainland Affairs Bureau	1 (-)	0 (-)	1 (-)	2 (-)
Highways Department	1 (-)	1 (-)	0 (-)	2 (-)
Auxiliary Medical Service	0 (-)	0 (-)	1 (-)	1 (-)
Civil Aid Service	0 (-)	0 (-)	1 (-)	1 (-)
Civil Engineering and Development Department	0 (-100%)	1 (N/A)	0 (-)	1 (-)
Financial Services and the Treasury Bureau (Financial Services Branch)	0 (-)	0 (-)	1 (-)	1 (-)
Government Flying Service	0 (-)	1 (-)	0 (-)	1 (-)

B/D	Chief Systems Manager, Senior Systems Manager and Systems Manager	Analyst/ Programmer I	Analyst/ Programmer II	Total
Invest Hong Kong	1 (N/A)	0 (-)	0 (-)	1 (N/A)
University Grants Committee Secretariat	0 (-)	1 (-)	0 (-)	1 (-)
Total:	326 (+7%)	486 (+23%)	381 (-2%)	1 193 (+10%)

**Numbers of Full-time Non-civil Service Contract (NCSC) Staff
Providing IT Support in B/Ds
(position as at end-December 2018)**

() Contains percentage change as compared to the number of staff as at 31 December 2017

(-) Indicates no change

(N/A) The B/D concerned did not employ any NCSC staff of comparable rank as at 31 December 2017 and the year-on-year percentage change is not applicable

B/D	Contract staff comparable with Senior Systems Manager and Systems Manager in the civil service	Contract staff comparable with Analyst/Programmer I in the civil service	Contract staff comparable with Analyst/Programmer II in the civil service	Other contract staff providing IT support	Total
Electrical and Mechanical Services Department	0 (-)	0 (-)	0 (-)	131 (-3%)	131 (-3%)
Education Bureau	0 (-)	0 (-)	0 (-)	99 (+16.5%)	99 (+16.5%)
Post Office	4 (N/A)	19 (+137.5%)	19 (+35.7%)	0 (-)	42 (+90.9%)
Leisure and Cultural Services Department	8 (-)	12 (-)	3 (-)	1 (-)	24 (-)
Efficiency Office	1 (-)	0 (-)	0 (-)	19 (-5%)	20 (-4.8%)
Working Family and Student Financial Assistance Agency	2 (-)	7 (-)	11 (-8.3%)	0 (-)	20 (-4.8%)
Rating and Valuation Department	0 (-)	3 (-25%)	14 (+16.7%)	0 (-)	17 (+6.3%)
Lands Department	0 (-)	4 (-)	0 (-)	10 (-9.1%)	14 (-6.7%)
Office of the Communications Authority	4 (-)	7 (-)	3 (-)	0 (-)	14 (-)
Government Property Agency	0 (-)	0 (-)	13 (N/A)	0 (-)	13 (N/A)

B/D	Contract staff comparable with Senior Systems Manager and Systems Manager in the civil service	Contract staff comparable with Analyst/ Programmer I in the civil service	Contract staff comparable with Analyst/ Programmer II in the civil service	Other contract staff providing IT support	Total
Inland Revenue Department	0 (-)	0 (-)	0 (-)	13 (-7.1%)	13 (-7.1%)
Drainage Services Department	2 (+100%)	2 (+100%)	4 (-)	0 (-)	8 (+33.3%)
Water Supplies Department	1 (-)	4 (-33.3%)	0 (-)	2 (-)	7 (-22.2%)
Fire Services Department	2 (-)	1 (-)	0 (-100%)	1 (-)	4 (-42.9%)
Radio Television Hong Kong	0 (-)	0 (-)	3 (-25%)	1 (-)	4 (-20%)
Invest Hong Kong	2 (-)	0 (-)	0 (-)	1 (-)	3 (-)
Home Affairs Department	0 (-)	0 (-)	0 (-)	3 (-)	3 (-)
Government Laboratory	0 (-)	1 (-)	0 (-)	1 (-)	2 (-)
Innovation and Technology Commission	1 (-)	1 (-)	0 (-)	0 (-)	2 (-)
Planning Department	0 (-)	0 (-)	0 (-)	2 (-)	2 (-)
Trade and Industry Department	1 (-)	1 (-50%)	0 (-)	0 (-)	2 (-33.3%)
University Grants Committee Secretariat	1 (N/A)	0 (-)	0 (-)	1 (-)	2 (+100%)
Chief Secretary for Administration's Office	0 (-)	1 (-)	0 (-)	0 (-)	1 (-)
Civil Engineering and Development Department	0 (-)	1 (-)	0 (-)	0 (-)	1 (-)

B/D	Contract staff comparable with Senior Systems Manager and Systems Manager in the civil service	Contract staff comparable with Analyst/ Programmer I in the civil service	Contract staff comparable with Analyst/ Programmer II in the civil service	Other contract staff providing IT support	Total
Commerce and Economic Development Bureau	1 (-)	0 (-)	0 (-)	0 (-)	1 (-)
Department of Health	1 (-)	0 (-)	0 (-)	0 (-)	1 (-)
Labour Department	0 (-)	1 (N/A)	0 (-100%)	0 (-)	1 (-)
Treasury	0 (-)	0 (-)	1 (-80%)	0 (-)	1 (-80%)
Total:	31 (+19.2%)	65 (+16.1%)	71 (-6%)	285 (+1.8%)	452 (+3.4%)

- End -

CONTROLLING OFFICER'S REPLY

ITB201

(Question Serial No. 1772)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the procurement policy of information technology (IT) products and services of the Government, please advise on the following:

- (1) As at 28 February 2019, what are the respective total values of IT products and services procured under the Standing Offer Agreement for Quality Professional Services 4 (SOA-QPS4) by the Government, and the number of contracts awarded to small and medium enterprises (SMEs)?
- (2) As at 28 February 2019, among those contracts awarded under SOA-QPS4, what are the respective percentages and average contract values of the 4 service categories, the percentages and average contract values of Minor Group and Major Group contracts under service categories (2) and (3), the percentage of contracts with expenditure exceeding the estimated cost against the total numbers, as well as the percentage of contracts with the completion date delayed for more than 30 days against the planned date?
- (3) What are the numbers and amount of contracts under the "Minor Group" successfully bidden by the 16 SMEs in 2018-19?
- (4) What are the numbers of bids for government contracts by local technology start-ups, and the numbers and amount of successful bids in the past 3 years?
- (5) With the introduction of the new procurement policy of the Government in 2019-20, will resources be reserved to strengthen the promotion to the local technology industries? If yes, what are the details?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 7)

Reply:

The required information is provided as follows:

- (1) In 2018-19 (as of 28 February 2019), the total values of information technology (IT) services procured by bureaux and departments (B/Ds) through the Standing Offer Agreement for Quality Professional Services 4 (SOA-QPS4) were about \$400 million. Of these services, 153 contracts were awarded to small and medium enterprises (SMEs) with a total value of about \$86 million. SOA-QPS4 contracts are for professional services, which do not cover the procurement of IT products.
- (2) In 2018-19 (as of 28 February 2019), a total of 469 contracts were awarded through SOA-QPS4. The percentages and average contract values of the 4 service categories are as follows:

Service category	Percentage	Average contract value
Category 1 (Pre-implementation Services)	9%	\$840,000
Category 2 (On-going Services)	22% (Minor Group: 94% ; Major Group: 6%)	\$1,130,000 (Minor Group: \$910,000; Major Group: \$4,610,000)
Category 3 (System Development and Implementation Services)	18% (Minor Group: 65% ; Major Group: 35%)	\$2,800,000 (Minor Group: \$1,410,000; Major Group: \$5,320,000)
Category 4 (IT Security and Independent Testing Services)	51%	\$80,000

All these contracts have not exceeded their budgets.

In 2018-19 (as of 28 February 2019), a total of 148 contracts were completed. Of them, 30% has experienced delay for more than 30 days against the planned completion date.

- (3) A total of 16 contractors in SOA-QPS4 are SMEs. Of them, 8 fall under the Minor Group of Service Categories 2 and 3. In 2018-19 (as of 28 February 2019), these 8 SMEs were awarded with a total of 26 Minor Group contracts with total contract value amounting to \$26 million.
- (4) Details of government tenders were kept by individual B/Ds. The Office of the Government Chief Information Officer (OGCIO) does not have the relevant statistics.
- (5) The pro-innovation government procurement policy will come into effect on 1 April 2019. Departments will follow the new procurement guidelines and procedures on all matters relating to tender invitation and evaluation. Besides, OGCIO will establish the “Smart Government Innovation Lab” in April this year to facilitate the industry to

assist government departments in adopting IT to improve public services, thus fostering public-private collaboration and creating more business opportunities for local start-ups and SMEs. Apart from organising activities such as forums and workshops for information exchange, OGCIO will set up a thematic website to share the challenges being faced by different public services, and invite the industry to submit technology solutions and product suggestions for addressing such challenges.

- End -

CONTROLLING OFFICER'S REPLY

ITB202

(Question Serial No. 1773)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the mobile applications (apps) developed by government departments and public organisations, please provide the related information.

- (a) Please advise on the related information in 2018-19 in the following table (in ascending order by the number of downloads and in descending order by development cost):

The information of mobile apps developed by government departments in 2018-19

Govt Dept	Name	Target	Regular/ One-off Projects	Applicable Platform (e.g. iOS/ Android)	Mode of Development (by internal development or contractors engaged by tender)	Development Cost	Routine Maintenance Cost	Promotion Expenditure	Project Start Date, Official Launch Date	Total Number of Downloads as at 28 Feb 2019	Average User Retention Rate on the 7 th Day of the Download	Average User Retention Rate on the 30 th Day of the Download	Number of Active Users in Feb 2019	Has user survey been conducted

- (b) The numbers of apps developed with mobile apps platforms and templates.
- (c) The information of mobile apps to be developed by government departments in 2019-20 (government departments / names of apps / content and purpose / platforms / modes of development / estimated development costs / estimated routine maintenance costs / estimated promotion expenditure / expected launch dates). Please provide the information in descending order by estimated development cost.
- (d) A list of government mobile apps that have already been withdrawn in 2018-19 (departments, names, total numbers of downloads, development and maintenance costs), and a list of mobile apps considered to be ceased in 2019-20.

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 8)

Reply:

The required information is provided as follows:

- (a) Information of the mobile applications (apps) launched by bureaux and departments (B/Ds) in 2018-19 is set out at Annex A.
- (b) The Office of the Government Chief Information Officer (OGCIO) provides 3 mobile app platforms, i.e. GovHK Notifications, GovHK Apps and EventHK. These are being used by 70 B/Ds for providing one-stop public services to citizens.

Besides, OGCIO provides 9 mobile app templates, namely “Appointment Booking”, “Mobile App Version Check”, “Remote Content Retrieval”, “Mobile Device System Configuration Check”, “User-Friendly Navigation Framework”, “Simple Form for Information Collection/Survey”, “Illustration of Optical Character Recognition Technology”, “Collection of User Behaviour Statistics” and “e-Payment Module”. B/Ds can adopt part of the functions provided by these templates when they develop mobile apps.

- (c) At this stage, no B/Ds have indicated that they will develop new mobile apps in 2019-20. There is only one government department which plans to launch a mobile app in 2019-20 and the information is set out at Annex B.
- (d) Information of the mobile apps that have already been removed from the app store by B/Ds in 2018-19 is set out at Annex C and information of the mobile apps expected to be ceased in 2019-20 is set out at Annex D.

Information of the mobile apps launched by B/Ds in 2018-19 (in ascending order of numbers of downloads)

No.	B/D	Name	Target	Regular / One-off Projects	Applicable Platform (e.g. iOS/Android)	Mode of Development (by internal development or contractors engaged by tender)	(Approximate) Development Cost	(Approximate) System Maintenance Cost	(Approximate) Promotion Expenditure	Project Start Date, Official Launch Date	Total Number of Downloads as of 28 Feb 2019	Average User Retention Rate on the 7 th day of the Download	Average User Retention Rate on the 30 th day of the Download	Number of Active Users in Feb 2019	Has user survey been conducted
1.	Invest Hong Kong (InvestHK)	InvestHK News & Events	Investors who are interested in conducting or have plans to conduct business in Hong Kong	Regular	iOS and Android	Developed by contractor	\$388,000	\$24,000	Nil	Project start date: Jun 2017 Official launch date: Sep 2018	850	81%	72%	150	No
2.	Food and Environmental Hygiene Department	Internet Memorial Service	Public	Regular	iOS and Android	Developed by contractor	\$300,000	Maintained with the related website. As it is not a stand-alone project, no separate cost breakdown is available.	Nil	Project start date: Jul 2015 Official launch date: Jun 2018	1 000	76%	70%	470	No
3.	Hongkong Post	ShopThruPost	Public	Regular	iOS and Android	Developed by contractor	Part of the Redevelopment of On-line Shopping Platform Project. As it is not a stand-alone project, no separate cost breakdown is available.	Included in the maintenance cost of the Redevelopment of On-line Shopping Platform Project. As it is not a stand-alone project, no separate cost breakdown is available.	Nil	Project start date: Oct 2017 Official launch date: Nov 2018	8 200	78%	67%	2 100	No

No.	B/D	Name	Target	Regular / One-off Projects	Applicable Platform (e.g. iOS/Android)	Mode of Development (by internal development or contractors engaged by tender)	(Approximate) Development Cost	(Approximate) System Maintenance Cost	(Approximate) Promotion Expenditure	Project Start Date, Official Launch Date	Total Number of Downloads as of 28 Feb 2019	Average User Retention Rate on the 7 th day of the Download	Average User Retention Rate on the 30 th day of the Download	Number of Active Users in Feb 2019	Has user survey been conducted
4.	Marine Department	eSeaGo	Public	Regular	iOS and Android	Developed by contractor	\$600,000	System maintenance contract is to be arranged, and the department is unable to provide the related figure for the time being.	Nil	Project start date: Jul 2017 Official launch date: Jan 2019	12 000	46%	45%	7 000	No
5.	Transport Department	HKeMobility	Public	Regular	iOS and Android	Developed by contractor	\$600,000	Maintained with the equipment of other systems. As it is not a stand-alone project, no separate cost breakdown is available.	Nil	Project start date: Jan 2018 Official launch date: Jul 2018	2 000 000	81%	73%	120 000	No

Information of the mobile apps to be launched by B/Ds in 2019-20 (in descending order of estimated development cost)

No.	B/D	Name	Content and Purpose	Platform (e.g. iOS/ Android)	Mode of Development (by internal development or contractors engaged by tender)	Estimated Development Cost	Estimated System Maintenance Cost	Estimated Promotion Expenditure	Expected Launch Date
1.	Water Supplies Department	H ₂ OPE Centre	The H ₂ OPE Centre is a new educational activity centre set up by the Water Supplies Department. The Centre will bring out educational messages on water resources in Hong Kong, as well as water saving and water conservation through various interactive games and exhibits. The mobile app will tie in with the establishment of the H ₂ OPE Centre to provide appointment booking and guided tour functions to facilitate visitors to participate in the activities of the Centre.	iOS and Android	Developed by contractor	To be included in the cost of the H ₂ OPE Centre project. As it is not a stand-alone project, no separate cost breakdown is available.	To be included in the maintenance cost of the H ₂ OPE Centre project. As it is not a stand-alone project, no separate cost breakdown is available.	To be included in the promotion expenditure of the H ₂ OPE Centre project. As it is not a stand-alone project, no separate cost breakdown is available.	2 nd quarter of 2019

Information of the mobile apps already removed from the app store by B/Ds in 2018-19

No.	B/D	Name	Last Recorded Total Number of Downloads	(Approximate) Development Cost	(Approximate) System Maintenance Cost
1.	Agriculture, Fisheries and Conservation Department	Red Tide Information Network	4 900	\$128,000	\$30,000
2.	Architectural Services Department	Architour	7 200	\$546,000 (Including phase 2 development cost)	Maintained by deploying internal resources. No additional cost is incurred.
3.	Civil Engineering and Development Department	Bowen Road Slope Study Trail	1 400	\$150,000	Maintained by deploying internal resources. No additional cost is incurred.
4.	Civil Engineering and Development Department	HK Landslides	2 300	Developed internally. No additional cost is incurred.	Maintained by deploying internal resources. No additional cost is incurred.
5.	Civil Engineering and Development Department	HK Slope Safety	4 100	Developed internally. No additional cost is incurred.	Maintained by deploying internal resources. No additional cost is incurred.
6.	Department of Health (Infection Control Branch)	HKeIC	6 600	\$150,000	\$60,000
7.	Department of Health (Student Health Service)	Student Weight for Height Check	29 000	\$286,000	\$56,000
8.	Development Bureau	Tree & Landscape Map	6 900	\$282,000	Maintained by deploying internal resources. No additional cost is incurred.
9.	Drainage Services Department	DSD Connect	7 700	\$170,000	Maintained by deploying internal resources. No additional cost is incurred.
10.	Home Affairs Bureau	18 Handy Tips for Family Education	6 800	\$49,000	Maintained by deploying internal resources. No additional cost is incurred.
11.	Home Affairs Bureau	Family Education Package for Families with Newborn Babies	22 000	\$40,000	Maintained by deploying internal resources. No additional cost is incurred.
12.	Home Affairs Department (District Council)	Yuen Long District-led Actions Scheme Mobile Application	3 500	\$80,000	Maintained by deploying internal resources. No additional cost is incurred.
13.	Hong Kong Observatory	iCWeatherOS	6 700	Developed internally. No additional cost is incurred.	Maintained by deploying internal resources. No additional cost is incurred.
14.	Leisure and Cultural Services Department	Fitness Walking	64 000	\$250,000	Maintained by deploying internal resources. No additional cost is incurred.
15.	Leisure and Cultural Services Department	My Culture	54 000	Included in the cost of the My Culture project. As it is not a stand-alone project, no separate cost breakdown is available.	\$13,000
16.	Office of the Government Chief Information Officer	HK GovWiFi	53 000	\$295,000	Maintained by deploying internal resources. No additional cost is incurred.
17.	Office of the Government Chief Information Officer	iStartup@HK	4 400	\$182,000	Maintained by deploying internal resources. No additional cost is incurred.
18.	Planning Department	City Gallery	9 400	\$263,000	\$98,000
19.	Social Welfare Department	3E Mobile App	5 200	\$47,000	\$8,800

No.	B/D	Name	Last Recorded Total Number of Downloads	(Approximate) Development Cost	(Approximate) System Maintenance Cost
20.	Transport Department	eTraffic News	100 000	\$337,000	\$24,000
21.	Transport Department	Hong Kong eRouting	190 000	\$1,930,000	Included in the maintenance cost of other systems. As it is not a stand-alone project, no separate cost breakdown is available.

Information of the mobile apps expected to be ceased by B/Ds in 2019-20

No.	B/D	Name
1.	Agriculture, Fisheries and Conservation Department	Country Parks Tree Walks
2.	Department of Health (Primary Care Office)	Framework@PC
3.	Efficiency Office	1823 Online mobile app
4.	Home Affairs Bureau	"M" Mark Events App
5.	Independent Commission Against Corruption (ICAC)	ICAC Smartphone App

- End -

CONTROLLING OFFICER'S REPLY

ITB203

(Question Serial No. 1774)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

In view of the great demand for the enhancement and development of information technology (IT) human capital by the industry, please advise on the following:

- (1) What are the resources and work plan of the Office of the Government Chief Information Officer for assisting the industry to develop talents in 2019-20?
- (2) Will the related activities of the "IT – You Study, We Hire!" Campaign be continued in 2019-20 so as to enable young people who are interested in joining the IT industry to have a better understanding of the prospects and the potential development opportunities of the industry? If yes, what are the details?
- (3) What is the number of eligible ICT-related courses registered under the Continuing Education Fund? What is the number of applications for subsidy for studying ICT-related courses in 2018-19?
- (4) Will the Government cooperate with educational institutions of the IT industry to introduce more courses and provide tuition fee subsidies to assist in the training of more professionals required by the local IT industry? What is the work plan in 2019-20 to encourage educational institutions to provide courses on innovation and technology skills to assist talents in pursuing further study?
- (5) In 2019-20, will the Government study and promote the development of a unified framework for professional qualification recognition of the IT industry in Hong Kong to enhance the recognition and status of IT practitioners in order to attract more people to join the IT industry? If yes, what are the details, timetable and the manpower and resources required?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 9)

Reply:

In consultation with relevant bureaux/departments (B/Ds), the required information is provided as follows:

- (1) Over the years, the Office of the Government Chief Information Officer (OGCIO) has facilitated the development of information technology (IT) talent through various means, including:
 - (a) Setting up the “Student IT Corner” website to provide students and parents with IT-related information;
 - (b) Setting up the “IT Career Role Models Platform” to provide students with information on IT positions and career prospects in different industries;
 - (c) Organising the “Hong Kong ICT Awards” every year to recognise local outstanding information and communications technology (ICT) inventions and applications, including the establishment of the award categories of “Startup Award” and “Student Innovation Award”;
 - (d) Implementing the “Enriched IT Programme in Secondary Schools” to provide funding support for secondary schools to organise various types of IT activities to create more opportunities for students to learn about IT outside the school curriculum with an aim to foster an IT learning atmosphere in schools and cultivate students’ interest in IT; and
 - (e) Launching the “IT Innovation Lab in Secondary Schools” initiative before the end of 2019, which will provide a maximum funding of \$1 million to each publicly-funded secondary school in Hong Kong in the 3 school years from 2019/20 to 2021/22 to procure IT equipment and organise IT-related extra-curricular activities.

In 2019-20, OGCIO will support the work of items (a) to (d) above through internal deployment of resources. For item (e), OGCIO will create 7 time-limited civil service posts to implement the initiative. The estimated expenditure for 2019-20 is about \$11.6 million.

- (2) The “IT – You Study, We Hire!” Campaign was completed in 2017-18. At present, we continue to provide students and young people with information of different industries through the “IT Career Role Models Platform” as mentioned in paragraph (1)(b) above, thereby encouraging them to work in different professional areas in the IT industry.
- (3) According to the information provided by the Working Family and Student Financial Assistance Agency, there are a total of 11 “ICT” courses on the list of Specification of Competency Standards (SCS)-based courses under the Qualifications Framework that are eligible for the Continuing Education Fund (CEF). In the past five years, no applications for reimbursement claims for these courses have been received by the CEF Office.

In addition, under the existing 8 specified domains (i.e. Business Services, Financial Services, Logistics, Tourism, Creative Industries, Design, Languages, and Interpersonal and Intrapersonal Skills for the Workplace), a number of CEF courses contained content and elements of ICT in accordance with the course content offered and relevant nature of the industries involved.

- (4) The Government and relevant organisations are committed to promoting the development of IT talent through diversified training measures such as:
- (a) In promoting the development of the information security profession and the nurturing of talent, OGCIO will continue to collaborate with the industry and professional bodies to organise conferences, thematic seminars and workshops, including the annual “Information Security Summit”, and to promote professional accreditation in information security for enhancing IT practitioners’ knowledge and skills in information security.
 - (b) In nurturing IT talent, Cyberport has been organising the Digital Tech Internship Programme since 2011. So far, more than 600 local university students have been subsidised to take up internship programme in renowned overseas, Mainland and local enterprises or start-ups to apply their knowledge and acquire valuable work experiences. In addition, Cyberport has been organising the Cyberport University Partnership Programme for 4 consecutive years to nurture FinTech talent. As at end-February 2019, a total of 211 university students from 78 teams have been subsidised to participate in entrepreneurship boot camp organised at prestigious universities in the United States, of which 43 teams had developed their ideas into prototypes.
 - (c) In nurturing e-sports talent, the School of Professional and Continuing Education of The University of Hong Kong (HKU SPACE) launched the first part-time Diploma in eSports Science programme at Level 3 under the Qualifications Framework in 2018. To date, about 100 students have enrolled in the two cohorts of the programme. The HKU SPACE has also announced that a full-time Higher Diploma in e-Sports programme will be launched in September 2019. In addition, the Open University of Hong Kong will launch the Bachelor of Business Administration with Honours in Sports and eSports Management programme in September 2019.
 - (d) The Innovation and Technology Commission launched the “Reindustrialisation and Technology Training Programme” in August 2018 to subsidise local enterprises on a 2:1 matching basis for their staff to receive technology trainings. As at end-January 2019, about 100 applications for public course registration have been approved, covering different technology areas including IT. A total of 349 staff of local enterprises have been funded to receive technology trainings, involving a total funding of about \$2.35 million.
- (5) The Task Force on ICT Professional Development and Recognition has carried out a study and published a report on establishing a unified framework for professional recognition. The report showed that the society had not yet reached any general consensus on the implementation of a unified framework for professional recognition. Therefore, we do not have any plan to pursue the establishment of a unified recognition framework at this stage.

- End -

CONTROLLING OFFICER'S REPLY

ITB204

(Question Serial No. 1775)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the work on setting up a Smart Government Innovation Lab to engage the industry and solicit their assistance in using information technology (IT) to improve public services, and create business opportunities for start-ups and small and medium enterprises in Hong Kong, please advise on the following:

- (1) What are the estimated expenditure and manpower required for setting up the Smart Government Innovation Lab? What are the criteria for setting the areas of public services intended to solicit IT solutions, the methods for selecting technology solutions, and the expenditure and timetable for inviting and testing solutions?
- (2) What are the plan, estimated expenditure and manpower required for promoting the Smart Government Innovation Lab to the industry, and strengthening the liaison between government departments and technology application providers in 2019-20?
- (3) Will the use of social media be enhanced to collect views from the industry and the public?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 10)

Reply:

The required information is provided as follows:

- (1) and (2) The Office of the Government Chief Information Officer (OGCIO) will establish the Smart Government Innovation Lab (Smart Lab) in April 2019 to conduct trials and technology testing in collaboration with government departments on information technology (IT) solutions which address their business needs. The "Smart Lab" will also showcase technologies that have been successfully tested by government departments, such as chatbot, virtual reality, geospatial technology, etc., with a view to inspiring wider adoption among government departments.

Besides, OGCIO will set up the “Smart Lab” thematic website to share the challenges being faced by different public services, and invite the industry to submit technology solutions and product suggestions for addressing such challenges. OGCIO will organise technology forums in collaboration with Cyberport and Hong Kong Science Park for the industry players to share their technology solutions and success stories, and how these technologies can be used to improve public services. Local start-ups and small and medium enterprises joining the forums can better understand and appreciate the business needs of government departments, and submit proposals to the “Smart Lab” for addressing different city management challenges. We aim to organise the first technology forum in June 2019, and then hold it on a quarterly basis. OGCIO will upload the technology solutions and suggestions received to the “Smart Lab” thematic website and arrange thematic workshops for government departments so that they could better understand the solutions and products that suit their needs, and conduct trials and technology testing for suitable solutions in the “Smart Lab”.

The estimated expenditure for the “Smart Lab” in 2019-20 is about \$4.9 million. OGCIO will create 4 IT professional civil service posts for the related work, which include promoting the “Smart Lab” to the industry and strengthening the liaison between government departments and technology solution providers.

- (3) We will collect views and suggestions from the industry, other interested parties and individuals through the “Smart Lab” thematic website.

- End -

CONTROLLING OFFICER'S REPLY

ITB205

(Question Serial No. 1777)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the “Enriched IT Programme in Secondary Schools” implemented for secondary schools and the Budget in which it is stated that the Government will implement the “IT Innovation Lab in Secondary Schools Programme” in the coming 3 school years and each secondary school benefiting will be granted \$1 million to procure software and hardware, and organise extra-curricular activities to deepen students’ knowledge of artificial intelligence, cloud computing, etc., please advise on the following:

- (1) The numbers of students, class hours and the average attendance rates of the Enriched IT Classes as at 28 February 2019 in the 2018/19 school year;
- (2) The total number, titles, venues, the numbers of attending students and the expenditure involved for the Enriched IT Activities organised as at 28 February 2019 in the 2018/19 school year;
- (3) The number of partner schools that will arrange internships for Secondary Six Enriched IT Class students in 2018-19, the number of interns, as well as the names of information technology (IT) companies, details and number of hours of the internship work;
- (4) Will resources be reserved for the provision of training to teachers under the “Programme” and will teachers participating in the “Enriched IT Programme in Secondary Schools” be invited to share their experiences in order to enhance teachers’ knowledge of IT innovation education? Will schools be provided with templates and guidelines and will the application procedures be streamlined so as to help schools deploy resources effectively? If yes, what are the details?
- (5) Since it is mentioned in the Director of Audit’s report that over half of the schools did not fully utilise the grant allocated for promoting IT in education, have measures been formulated to facilitate schools to properly utilise the resources provided under the “IT Innovation Lab in Secondary Schools Programme” and assist the IT sector in furnishing schools with more information about technology products and services? If yes, what are the details?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 12)

Reply:

The required information is provided as follows:

- (1) As at end-February 2019, there were around 1 000 Enriched IT Class (EITC) students in the 2018/19 school year. The average class hour was 2-3 hours per week, with an average attendance rate of 89%.
- (2) The Office of the Government Chief Information Officer (OGCIO) conducted two rounds of Call for Applications for Enriched IT Activities in the 2015/16 and 2017/18 school years respectively. About \$8.6 million of funding support was granted to 142 schools for organising various types of IT activities with the participation of about 20 000 students. Details of the schools and related activities are available on the programme's thematic portal (<https://www.eitp.gov.hk>).
- (3) Two partner schools will arrange for their Secondary Six EITC students to participate in work experience activities during the summer vacation of 2019. Work experience activities for these students will be organised during the summer vacation of 2019 after the Hong Kong Diploma of Secondary Education Examination. We do not have the details such as the names of IT companies, content and hours of the work experience activities for the time being.
- (4) and (5) The "IT Innovation Lab in Secondary Schools" initiative provides financial support to each publicly-funded secondary school in Hong Kong to procure IT equipment and professional services and support them to organise IT-related extra-curricular activities (ECA). The scope of funding does not cover teacher training. In fact, the requirement for teachers' IT professional knowledge to organise related activities for secondary students should not be too demanding. The one-stop support centre set up by OGCIO will make reference to Education Bureau's arrangements of subsidising ECA to enable schools to procure tutorial support services and arrange time-limited manpower to assist in the planning work, such as engaging coding instructors or relevant technology experts, etc. with the funding of the "IT Innovation Lab in Secondary Schools" initiative. Schools may also choose the professional services available in the market according to their actual situations.

Schools may draw up a proposal under the "IT Innovation Lab in Secondary Schools" initiative taking into account their actual situation and the needs of their students. The proposal should include IT equipment and professional services to be procured, relevant ECA to be organised and the funding required. The one-stop support centre of OGCIO will provide advice on various professional services as well as IT equipment and ECA that address students' needs. It will also issue application guidelines and reference list of IT equipment for reference purposes.

- End -

CONTROLLING OFFICER'S REPLY

ITB206

(Question Serial No. 1778)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the Wi-Fi Connected City Programme, please advise on the following:

- (1) On the additional Wi-Fi hotspots provided in 2018-19, please list out the providers (government/private organisations/others), venue types, districts, free session time, maximum numbers of sessions and bandwidth;
- (2) The 10 venues with the highest and lowest average numbers of daily usage sessions and daily usage hours connected to Government Wi-Fi (GovWiFi) services and "Wi-Fi.HK" in 2018-19. What are the average numbers of daily users at these venues?
- (3) What is the number of government venues with the speed of Wi-Fi services enhanced in 2018-19? What is the plan for 2019-20?
- (4) On doubling the number of "Wi-Fi.HK" hotspots to expand the coverage in 2019, please list out the venues with additional hotspots to be provided in 2019-20 by venue type, district, location, free trial service time (minute) and expenditure.
- (5) Of the free Wi-Fi hotspots installed in youth service centres and study rooms, what are the 10 venues with the highest and lowest average numbers of daily usage sessions and daily usage hours in 2018-19? What are the average numbers of daily users at these venues?
- (6) It is mentioned in the Budget that \$200 million will be allocated to launch a four-year pilot project providing Wi-Fi service to around 1 350 service units operated by subvented organisations under the Social Welfare Department (SWD) and 180 welfare facilities operated by SWD. What is the distribution of these welfare facilities by district? How many hotspots will be installed for each unit/facility? What is the expenditure and manpower involved?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 13)

Reply:

In consultation with relevant bureaux/departments (B/Ds), the required information is provided as follows:

- (1) In 2018-19, there was 1 852 additional “Wi-Fi.HK” hotspots under the Wi-Fi Connected City Programme. The details are set out at Annex 1.
- (2) The detailed figures of usage sessions and usage hours as well as numbers of users of Wi-Fi service operated by the Government in 2018-19 are set out at Annex 2. As for the Wi-Fi service operated by service contractors through the public-private collaboration model and those of public and private organisations, we do not have the related data.
- (3) In 2018-19, the latest Wi-Fi technology standard (IEEE 802.11ac) has been adopted in over 3 000 Wi-Fi hotspots at more than 600 government venues operated by the Government to reduce signal interference and improve the speed and stability of data transmission. We have also requested the contractors to carry out work installing fibre network to provide faster and more stable Wi-Fi service and increase the connection speed of Wi-Fi service at government venues to over 10 Mbps. In 2019-20, we will continue to monitor the transmission speed and usage of the Wi-Fi hotspots at government venues regularly to ensure that the quality of service meets the required level cost-effectively.
- (4) In 2019-20, it is anticipated that there will be an increase of around 11 000 Wi-Fi hotspots at around 600 existing and new government venues as well as venues of other private organisations under the Wi-Fi Connected City Programme. The proposed new venue types and numbers of new hotspots are tabulated as follows:

Venue type	Anticipated number of new hotspots
Stores and shopping centres, banks, restaurants, public transport, tourist attractions, etc. (through inviting the free Wi-Fi service operated by various sectors to join the “Wi-Fi.HK” brand)	6 000
Small parks and sitting-out areas in various districts and public rental housing estates, markets, hospitals, sports venues, community centres, etc. (through Wi-Fi service installed by the Government)	3 000
Public transport interchanges, promenades, parks, cultural and recreation venues, government offices, etc. (through public-private collaboration model)	2 000
Total:	11 000

As we are discussing with relevant organisations on the hotspot locations, information about the districts and locations concerned is not available at the moment. The estimated expenditure of the Office of the Government Chief Information Officer in 2019-20 is about \$74.17 million.

- (5) In 2018-19, the details of usage sessions of Wi-Fi service provided at youth service centres and study rooms are set out at Annex 3. For the numbers of average daily users, we do not have the related data.
- (6) Funded by an allocation of about \$205 million from the Lotteries Fund, the four-year pilot scheme will cover around 1 350 service units located in various districts operated by subvented organisations under the Social Welfare Department (SWD), including relevant units of elderly services, rehabilitation services, family and child welfare services as well as youth services. The funding will cover the one-off subsidy for setting up of the Wi-Fi service facilities and the related recurrent expenditure (including the provision of necessary equipment, daily Wi-Fi service and operational support service, etc.). The pilot scheme is expected to be launched in the 4th quarter of 2019. SWD will also allocate resources to progressively provide the above service to the 180 service units which it operates, including the facilities of the social security field units and integrated family service centres located in various districts. The one-off expenditure and annual recurrent expenditure involved will be about \$4 million and \$2.5 million respectively. The pilot scheme does not involve additional manpower expenditure.

Additional “Wi-Fi.HK” hotspots in 2018-19 under the Wi-Fi Connected City Programme

The related service providers, venue types, districts, free session time and maximum number of sessions are tabulated as follows:

Wi-Fi service provider	Number of increased (decreased) hotspots
Private companies	1 126
Public bodies	760
Government	(34) ^[Note 1]
Total:	1 852

Note 1: In 2018-19, there was an increase of 166 hotspots operated by the Government at government venues. However, some Wi-Fi hotspots with low usage were removed.

Venue type	Number of increased (decreased) hotspots
Sports, cultural and recreation	968
Public transport and related facilities	339
Entertainment and leisure	227
Universities and tertiary institutions	223
Stores/shopping centres	197 ^[Note 2]
Study rooms and youth service centres	170
Vehicles	80
Hotels/guesthouses	48
Hospitals and clinics	29
Government offices	28
Banks	(8)
Convenience stores	(18)
Government-related organisations	(19)
Telephone booths	(70) ^[Note 3]
Restaurants	(342) ^[Note 4]
Total:	1 852

Note 2: Including 16 hotspots which were originally grouped under restaurants.

Note 3: In 2018-19, in light of the views of related district councils, the telecommunications operator removed 70 low-usage public telephone booths with Wi-Fi service.

Note 4: In 2018-19, there was an increase of 37 hotspots in restaurants. At the same time, some participating organisations corrected the venue types of their hotspots with 16 hotspots re-grouped from restaurants to stores/shopping centres. Moreover, 363 hotspots have also been removed by individual organisations.

Number of increased (decreased) hotspots	
Hong Kong	
Central and Western District	(39)
Eastern District	(7)
Southern District	(19)
Wan Chai	634
Kowloon	
Kowloon City	218
Yau Tsim Mong	431
Sham Shui Po	47
Wong Tai Sin	23
Kwun Tong	(13)
New Territories	
Tai Po	(7)
Yuen Long	50
Tuen Mun	43
North District	19
Sai Kung	24
Sha Tin	9
Kwai Tsing	(2)
Tsuen Wan	(9)
Islands	450
Total:	1 852

Daily Free Usage Time	Number of increased (decreased) hotspots
Unlimited usage	1 846
1-2 hours (30/60/120 minutes per session with 1-4 session(s) daily)	239
Below 1 hour (30/35 minutes per session with 1 session daily)	(233)
Total:	1 852

Organisations joining the “Wi-Fi.HK” brand must provide free Wi-Fi service of at least 30 minutes daily and bandwidth of 3 Mbps or above.

Usage of Wi-Fi service operated by the Government in 2018-19

10 venues with the highest average number of daily usage sessions:

	Venue	Average daily usage sessions	Average daily users
1	Hong Kong Central Library	2 814	1 716
2	Public Transport Interchange, Hong Kong-Zhuhai-Macao Bridge Hong Kong Port	1 351	1 081
3	Passenger Clearance Building, Hong Kong-Zhuhai-Macao Bridge Hong Kong Port	1 306	1 052
4	Ping Shan Tin Shui Wai Public Library	1 276	672
5	Yuen Long Public Library	1 110	624
6	Hong Kong-Macau Ferry Terminal (Inner pier passenger departure waiting hall)	1 039	896
7	Tai Po Public Library	994	531
8	Tuen Mun Public Library	946	555
9	Sha Tin Public Library	905	567
10	Tiu Keng Leng Public Library	889	512

10 venues with the highest average number of daily usage hours:

	Venue	Average daily usage hours	Average daily users
1	Hong Kong Central Library	4 501	1 716
2	Public Transport Interchange, Hong Kong-Zhuhai-Macao Bridge Hong Kong Port	2 819	1 081
3	Passenger Clearance Building, Hong Kong-Zhuhai-Macao Bridge Hong Kong Port	2 703	1 052
4	Ping Shan Tin Shui Wai Public Library	1 790	672
5	Yuen Long Public Library	1 380	624
6	Sha Tin Public Library	1 302	567
7	Tiu Keng Leng Public Library	1 285	512
8	Tai Po Public Library	1 219	531
9	Tuen Mun Public Library	1 162	555
10	Yuen Chau Kok Public Library	1 084	459

10 venues with the lowest average number of daily usage sessions:

	Venue	Average daily usage sessions	Average daily users
1	Southern District Office - Public Enquiry Service Centre	8.4	5.5
2	Shan King Community Hall	8.4	6.0
3	Islands District Office - Tung Chung Public Enquiry Service Centre	6.8	3.9
4	Sai Ying Pun Dermatology and Chest Clinic Dispensary	6.8	4.9
5	Stanley Community Hall	6.5	4.7
6	Islands District Office - Mui Wo Public Enquiry Service Centre	6.2	3.8
7	Wong Tai Sin District Office - Public Enquiry Service Centre	5.8	4.4
8	Green Hub	5.5	3.2
9	South Lamma Public Library	4.4	3.2
10	Wang Tau Hom Maternal and Child Health Centre	4.2	3.2

10 venues with the lowest average number of daily usage hours:

	Venue	Average daily usage hours	Average daily users
1	Southern District Office - Public Enquiry Service Centre	9.0	5.5
2	Sai Kung District Office - Public Enquiry Service Centre	8.0	6.0
3	Islands District Office - Mui Wo Public Enquiry Service Centre	8.0	3.8
4	Wong Tai Sin District Office - Public Enquiry Service Centre	7.0	4.4
5	Shan King Community Hall	6.0	6.0
6	Sai Ying Pun Dermatology and Chest Clinic Dispensary	6.0	4.9
7	Stanley Community Hall	6.0	4.7
8	Wang Tau Hom Maternal and Child Health Centre	6.0	3.2
9	Green Hub	4.0	3.2
10	South Lamma Public Library	4.0	3.2

Usage of Wi-Fi service in youth service centres and study rooms in 2018-19

10 venues with the highest average number of daily usage sessions:

	Venue	Average daily usage sessions
1	Shing Yan Christian Social Service Centre	301
2	Tung Wah Group of Hospitals Jockey Club Tai Kok Tsui Integrated Services Centre	148
3	The Church of United Brethren In Christ Tuen Mun Integrated Children and Youth Service Centre	130
4	Hong Kong Playground Association Jockey Club North Point Integrated Service Centre for Children and Youth	129
5	Yan Oi Tong Community Centre	112
6	Hong Kong Playground Association Mongkok Integrated Service Centre for Children and Youth	110
7	Jockey Club Belvedere Garden Integrated Children & Youth Services Centre	95
8	Jockey Club Heng On Integrated Children and Youth Services Centre	87
9	Hong Kong Playground Association Choi Tak Integrated Service Centre for Children and Youth	84
10	Christian Family Service Centre Jockey Club Shun Tin Youth Leap	83

10 venues with the lowest average number of daily usage sessions:

	Venue	Average daily usage sessions
1	Caritas Mok Cheung Sui Kun Community Centre	9.0
2	The Salvation Army Lung Hang Children & Youth Centre	8.8
3	Kowloon Tong Church of the C.C. & M.A. Shek Lei Church Yeh Leung Suk Ching Reading Centre	8.7
4	Pok Oi Hospital Chan Shi Sau Memorial Social Service Centre	8.6
5	C & MA Bradbury Kwai Fong Study Centre	8.5
6	Pak Tin Study Centre of Seventh-day Adventists	8.3
7	Conservative Baptist Heng On Bradbury Study Center	7.5
8	Kowloon Tong Church of the Chinese Christian and Missionary Alliance Lau Ping Chai Study Centre	7.1
9	The Salvation Army Chuk Yuen Children and Youth Centre	7.0
10	The Hong Kong Buddhist Association Children and Youth Centre	5.6

- End -

CONTROLLING OFFICER'S REPLY

ITB207

(Question Serial No. 1801)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in the Budget that (the Government) would continue to oversee the implementation of the project of electronic identity (eID). Will the Government advise on the following:

- (1) What are the tendering and development timetables as well as the manpower resources and estimated expenditure involved?
- (2) Will additional non-civil service contract staff be recruited or will staff be engaged through T-contractors to develop the system? If yes, what are the numbers and posts of such staff as well as the estimated expenditure and years of service involved?
- (3) Please provide in tabular form the online transactions and government e-services planned to use eID, the service providers and annual average number of transactions/usage rate? What is the target usage rate?
- (4) Have additional resources been reserved in 2019-20 for independent personal privacy and information security risk assessments to be carried out by a third party? If yes, what are the estimated expenditure, timetable and manpower resources involved?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 62)

Reply:

The required information is provided as follows:

- (1) The Office of the Government Chief Information Officer (OGCIO) conducted an open tendering exercise for the “electronic identity” (eID) system in August 2018 and awarded the contracts in end-February this year. The estimated expenditure of the project is about \$112 million. The contractors are working on the design and development of the system, which is expected to come into operation in mid-2020. OGCIO will create 11 time-limited civil service posts in 2019-20 and 2020-21 for the work related to the development of the eID system.

- (2) During the period from 2018-19 to 2020-21, OGCIO will, through T-contractors, engage 12 information technology practitioners with relevant skills and experience to assist in managing and monitoring the system development work of the contractors. The estimated expenditure is about \$16.6 million.
- (3) OGCIO is liaising with government departments and devising the timetable and details of eID adoption in e-Government services. We expect that upon its launch in mid-2020, eID will be adopted by 26 e-Government services, which include the application for or access to Home Ownership Scheme, “eTax”, Renewal of Driving Licence, Registration of Outbound Travel Information, job seeker registration, etc. By mid-2021, most of the e-Government services (over 110) will enable user login using eID. The Government will promote eID to the industry and citizens. Considering that the registration and use of eID by citizens is voluntary, we have at the moment not set any targets for the usage rates of eID for various services.
- (4) OGCIO will engage independent third parties to conduct privacy impact and information security risk assessments and audits, which will be completed before the launch of the system in mid-2020. In 2019-20, the estimated expenditure for the related assessments and audits is about \$710,000, and the manpower required has been included in the posts mentioned in parts (1) and (2).

- End -

CONTROLLING OFFICER'S REPLY**ITB208****(Question Serial No. 3710)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the release of public data on “data.gov.hk”, please advise on the following:

- (1) As at 28 February 2019, the top 10 datasets with the highest numbers of downloads and the top 10 keywords with the highest numbers of searches;
- (2) As at 28 February 2019, the data-providing organisations, numbers of datasets and numbers of application programming interfaces (APIs);

Data-providing Organisation	Number of Datasets (in descending order)	Number of APIs (in descending order)

- (3) As at 28 February 2019, the distribution of dataset formats;

	Number of Datasets (in descending order)	Percentage against the Total Number
XML/JSON/CSV		
XLS/XLSX		
PDF		
GIF/JPG/TIF/PNG		
RSS		
HTML		
Others		

(4) As at 28 February 2019, the numbers of APIs and geospatial data;

Category of Data	Number of APIs	Resources Containing Geospatial Data	Number of Resources Providing Historical Information

- (5) The numbers of new open data to be released by government bureaux/departments in the coming 2 years (please list out in tabular form by policy area);
- (6) What are the work plan, timetable and manpower for starting the provision of thematic data with the health, transport and education sectors from 2019?
- (7) The APIs that facilitate the release of real-time arrival information in machine-readable formats by public transport operators in 2019-20;
- (8) What are the resources reserved and the work details for supporting government departments, public organisations and statutory organisations to release data and enhance the quality, assisting developers in using open data, and public education in 2019-20?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 17)

Reply:

In consultation with relevant bureaux and departments (B/Ds), the required information is provided as follows:

- (1) In 2018-19 (as of end-February 2019), the top 10 datasets with the highest numbers of downloads (in descending order) on the “data.gov.hk” portal are as follows:
- (a) Traffic snapshot images
 - (b) Current weather report
 - (c) Conversion data between HK 1980 Grid Coordinates and WGS84 Coordinates (Latitude and Longitude)
 - (d) Weather warning summary
 - (e) Journey time indicators
 - (f) Local weather forecast
 - (g) 9-day weather forecast
 - (h) Weather warning information
 - (i) Speed map panels
 - (j) Traffic speed map

In 2018-19 (as of end-February 2019), the top 10 keywords with the highest numbers of searches (in descending order) on the “data.gov.hk” portal are as follows:

- (a) parking
- (b) population
- (c) weather
- (d) 人口
- (e) address
- (f) traffic
- (g) press release
- (h) transport
- (i) bus
- (j) holiday

(2) In 2018-19 (as of end-February 2019), the numbers of datasets and application programming interfaces (APIs) released on the “data.gov.hk” portal are listed in **Annex I**.

(3) In 2018-19 (as of end-February 2019), the distribution of formats of the datasets released on the “data.gov.hk” portal is as follows:

	Number of Datasets^{Note} (in descending order)	Percentage against the Total Number
XML/JSON/CSV	1 894	56.4%
XLS/XLSX	1 150	34.2%
GIF/JPG/TIF/PNG	222	6.6%
Others (e.g. MDB, GML, KML, GTFS, etc.)	66	2.0%
RSS	28	0.8%
Total:	3 360	100%

Note: Datasets in different languages or of different years/months are not counted multiple times.

(4) In 2018-19 (as of end-February 2019), the numbers of APIs, datasets with geospatial information and datasets with historical information by data category released on the “data.gov.hk” portal are listed in **Annex II**.

(5) According to the first annual open data plans released by B/Ds in December 2018, the numbers of new datasets to be released by B/Ds in the coming 2 years (2019 and 2020) by policy area are listed in **Annex III**.

(6) According to the first annual open data plans released by relevant B/Ds, the datasets related to health, transport and education planned to be opened up in the coming 3 years (2019 to 2021) are listed in **Annex IV**. The related work is absorbed by the existing manpower of the relevant B/Ds and no additional resource is involved.

(7) The Transport Department (TD) has been actively responding to the Government’s open data policy by providing a variety of traffic and transport data through the “data.gov.hk” portal to facilitate private organisations and value-added service providers to develop more innovative applications for public use.

Regarding real-time arrival information, TD is actively discussing with public transport operators to encourage them to open up real-time arrival data through the “data.gov.hk” portal in machine-readable formats, and to timely reflect the details in its open data plan. The responses of relevant operators are positive. Among them, the New World First Bus Services Limited (NWFB) and Citybus Limited (Citybus) have agreed in principle to open up their real-time arrival data in the third quarter of 2019. The Office of the Government Chief Information Officer (OGCIO) will assist TD in the relevant preparation work, including providing related APIs.

- (8) OGCIO will provide advice and technical support according to the needs of individual B/Ds, public organisations and statutory organisations to assist them in releasing more datasets and enhancing data quality. On the other hand, OGCIO will continue to enhance the “data.gov.hk” portal and support the development of more APIs in order to encourage more developers to make use of the open data. In general, B/Ds, public organisations and statutory organisations will handle the work related to the opening up of their data with existing manpower and resources. If additional resources are required, the B/Ds concerned could seek funding from the block allocation under Capital Works Reserve Fund Head 710 Computerisation to carry out the work.

In respect of public education, OGCIO will continue to promote open data through various channels (such as seminars and organising competitions) in collaboration with public and private organisations. For example, OGCIO supported the industry to host the Smart City Datathon 2018 in October 2018 to encourage different sectors to make use of the open data from the “data.gov.hk” portal to develop innovative applications. The work was absorbed by the existing manpower of OGCIO and no additional resource was involved.

**Numbers of datasets and APIs released on the “data.gov.hk” portal
in 2018-19 (as of end-February 2019)**

B/D or Organisation	Number of Datasets^{Note} (in descending order)	Number of APIs
Census and Statistics Department	1 516	446
Transport Department	432	19
Department of Health	185	215
Planning Department	142	0
Lands Department	127	102
Registration and Electoral Office	88	55
Electrical and Mechanical Services Department	86	26
Leisure and Cultural Services Department	74	4
Buildings Department	64	44
Hong Kong Monetary Authority	50	50
Insurance Authority	50	7
Education Bureau	40	5
Hong Kong Observatory	35	14
Rating and Valuation Department	34	24
Office of the Government Chief Information Officer	29	23
Office of the Communications Authority	28	23
Official Receiver’s Office	25	9
Companies Registry	23	36
Hospital Authority	23	0
Social Welfare Department	23	0
Marine Department	21	0
Hong Kong Examinations and Assessment Authority	19	0
Inland Revenue Department	16	0
Innovation and Technology Commission	16	0
Food and Environmental Hygiene Department	14	1
Water Supplies Department	14	0
Environmental Protection Department	13	3

B/D or Organisation	Number of Datasets^{Note} (in descending order)	Number of APIs
Government Property Agency	12	21
Correctional Services Department	11	9
MTR Corporation Limited	11	11
Working Family and Student Financial Assistance Agency	11	3
Agriculture, Fisheries and Conservation Department	10	5
Hong Kong Police Force	10	3
Intellectual Property Department	10	10
Food and Health Bureau	8	0
University Grants Committee Secretariat	8	5
Development Bureau	6	6
Customs and Excise Department	5	0
Home Affairs Department	5	0
Radio Television Hong Kong	5	0
Commerce and Economic Development Bureau	4	0
Hong Kong Housing Authority	4	4
The “Star” Ferry Company, Limited	4	0
The Hong Kong Society for Rehabilitation	4	0
Architectural Services Department	3	0
Chief Executive’s Office	3	6
Chief Secretary for Administration’s Office	3	0
Civil Aviation Department	3	3
Financial Secretary’s Office	3	0
Hongkong Electric Company Limited	3	5
Trade and Industry Department	3	3
Department of Justice	2	0
Government Laboratory	2	12
Hong Kong Tramways Limited	2	6
Innovation and Technology Bureau	2	0
Land Registry	2	27
The Treasury	2	0
Auxiliary Medical Service	1	0

B/D or Organisation	Number of Datasets^{Note} (in descending order)	Number of APIs
Centaline Property Agency Limited	1	1
Civil Engineering and Development Department	1	0
CLP Power Hong Kong Limited	1	2
Efficiency Office	1	0
Financial Services and the Treasury Bureau	1	0
Government Logistics Department	1	0
Hong Kong Computer Emergency Response Team Coordination Centre	1	0
Information Services Department	1	0
Labour Department	1	0
Office for Film, Newspaper and Article Administration	1	1
The Hong Kong and China Gas Company Limited	1	1
Total:	3 360	1 250

Note: Datasets in different languages or of different years/months are not counted multiple times

**Numbers of datasets with geospatial information,
datasets with historical information and APIs by data category
released on the “data.gov.hk” portal
in 2018-19 (as of end-February 2019)**

Data Category	Number of Datasets with Geospatial Information	Number of Datasets with Historical Information	Number of APIs
City Management	0	21	2
Climate and Weather	0	35	14
Commerce and Industry	0	121	46
Development	79	199	118
Education	0	115	13
Employment and Labour	0	32	0
Environment	2	83	7
Finance	0	119	123
Food	0	14	2
Health	5	248	216
Housing	0	43	86
IT and Broadcasting	0	60	32
Law and Security	0	24	12
Population	16	30	446
Recreation and Culture	1	80	7
Social Welfare	0	23	2
Transport	4	493	49
Miscellaneous	0	95	75
Total:	107	1 835	1 250

Numbers of New Datasets to be Released in the Coming 2 Years (2019 and 2020) by Policy Area

B/D \ Area	City Management	Climate and Weather	Commerce and Industry	Development	Education	Employment and Labour	Environment	Finance	Food	Health	Housing	IT and Broadcasting	Law and Security	Population	Recreation and Culture	Social Welfare	Transport	Miscellaneous	Total
Agriculture, Fisheries and Conservation Department							1								1				2
Architectural Services Department				17															17
Audit Commission																		3	3
Auxiliary Medical Service																		1	1
Buildings Department				5															5
Census and Statistics Department						3								5					8
Chief Executive's Office																		5	5
Chief Secretary for Administration's Office																		3	3

B/D \ Area	City Management	Climate and Weather	Commerce and Industry	Development	Education	Employment and Labour	Environment	Finance	Food	Health	Housing	IT and Broadcasting	Law and Security	Population	Recreation and Culture	Social Welfare	Transport	Miscellaneous	Total
Chief Secretary for Administration's Office (Administration Wing)																		4	4
Civil Aid Service													4						4
Civil Aviation Department																	5		5
Civil Engineering and Development Department				6															6
Civil Service Bureau																		17	17
Commerce and Economic Development Bureau			7										1						8
Companies Registry								1											1
Constitutional and Mainland Affairs Bureau																		2	2
Correctional Services Department													15						15
Customs and Excise Department			3					2					2						7

B/D \ Area	City Management	Climate and Weather	Commerce and Industry	Development	Education	Employment and Labour	Environment	Finance	Food	Health	Housing	IT and Broadcasting	Law and Security	Population	Recreation and Culture	Social Welfare	Transport	Miscellaneous	Total
Department of Health										9									9
Department of Justice (including Secretary for Justice's Office)													1					2	3
Development Bureau (including Surveyors Registration Board, Architects Registration Board, Landscape Architects Registration Board and Urban Renewal Authority)	1			5			3										1		10
Drainage Services Department	3						7											2	12
Education Bureau (including Committee on Home-School Co-operation)					9														9
Efficiency Office	1											1				1			3

B/D \ Area	City Management	Climate and Weather	Commerce and Industry	Development	Education	Employment and Labour	Environment	Finance	Food	Health	Housing	IT and Broadcasting	Law and Security	Population	Recreation and Culture	Social Welfare	Transport	Miscellaneous	Total
Electrical and Mechanical Services Department			45																45
Environment Bureau/ Environmental Protection Department							8												8
Financial Services and the Treasury Bureau								1											1
Financial Secretary's Office																		2	2
Fire Services Department	7																		7
Food and Environmental Hygiene Department									2										2
Food and Health Bureau (including Hospital Authority)										7									7
Government Flying Service																		1	1

B/D \ Area	City Management	Climate and Weather	Commerce and Industry	Development	Education	Employment and Labour	Environment	Finance	Food	Health	Housing	IT and Broadcasting	Law and Security	Population	Recreation and Culture	Social Welfare	Transport	Miscellaneous	Total
Government Laboratory																		1	1
Government Logistics Department																		7	7
Government Property Agency	3		1														2	4	10
Highways Department				2													2	1	5
Home Affairs Bureau															5	1		13	19
Home Affairs Department (including District Councils)	5		4	1									5		3				18
Hong Kong Monetary Authority								80											80
Hong Kong Observatory		6																	6
Hong Kong Police Force													10						10
Hongkong Post			8																8

B/D \ Area	City Management	Climate and Weather	Commerce and Industry	Development	Education	Employment and Labour	Environment	Finance	Food	Health	Housing	IT and Broadcasting	Law and Security	Population	Recreation and Culture	Social Welfare	Transport	Miscellaneous	Total
Housing Department (including Hong Kong Housing Society)											9								9
Immigration Department													32				2		34
Independent Commission Against Corruption													15					1	16
Information Services Department								1											1
Inland Revenue Department								11											11
Innovation and Technology Bureau (including Cyberport)												11							11

B/D \ Area	City Management	Climate and Weather	Commerce and Industry	Development	Education	Employment and Labour	Environment	Finance	Food	Health	Housing	IT and Broadcasting	Law and Security	Population	Recreation and Culture	Social Welfare	Transport	Miscellaneous	Total
Innovation and Technology Commission (including Hong Kong Science and Technology Parks Corporation, Research and Development Centres and Hong Kong Productivity Council)	1		11									5					2	2	21
Intellectual Property Department			25																25
Invest Hong Kong			6																6
Joint Secretariat for the Advisory Bodies on Civil Service and Judicial Salaries and Conditions of Service						2													2
Labour Department						20													20
Land Registry											3								3
Lands Department				13							4								17

B/D \ Area	City Management	Climate and Weather	Commerce and Industry	Development	Education	Employment and Labour	Environment	Finance	Food	Health	Housing	IT and Broadcasting	Law and Security	Population	Recreation and Culture	Social Welfare	Transport	Miscellaneous	Total
Legal Aid Department																		1	1
Leisure and Cultural Services Department															16				16
Marine Department																	2		2
Office of the Communications Authority												11							11
Office of the Government Chief Information Officer (including Hong Kong Computer Emergency Response Team Coordination Centre)												15							15
Official Receiver's Office								1										1	2
Planning Department (including Town Planning Board)				11			1							2			1		15

B/D \ Area	City Management	Climate and Weather	Commerce and Industry	Development	Education	Employment and Labour	Environment	Finance	Food	Health	Housing	IT and Broadcasting	Law and Security	Population	Recreation and Culture	Social Welfare	Transport	Miscellaneous	Total
Policy Innovation and Co-ordination Office																		2	2
Public Service Commission																		2	2
Radio Television Hong Kong												5							5
Registration and Electoral Office																		49	49
Secretariat, Commissioner on Interception of Communications and Surveillance													1						1
Security Bureau													3						3
Social Welfare Department																47			47
Transport and Housing Bureau (including Airport Authority Hong Kong)																	4		4
Transport Department (including NWFB and Citybus)																	12		12
The Treasury								3										7	10

B/D \ Area	City Management	Climate and Weather	Commerce and Industry	Development	Education	Employment and Labour	Environment	Finance	Food	Health	Housing	IT and Broadcasting	Law and Security	Population	Recreation and Culture	Social Welfare	Transport	Miscellaneous	Total
University Grant Committee Secretariat					15														15
Water Supplies Department	25																	1	26
Working Family and Student Financial Assistance Agency - Student Finance Office					5														5
Working Family and Student Financial Assistance Agency - Working Family Allowance Office																2			2
Total:	46	6	110	60	29	25	20	100	2	16	16	48	89	7	25	51	33	134	817

**Datasets related to health, transport and education planned to be opened up
in the coming 3 years (2019 to 2021)**

Data Category	B/D or Organisation	Datasets planned to be opened up	Target release date
Health	Food and Health Bureau	<ul style="list-style-type: none"> ● List of Registered Voluntary Health Insurance Scheme Providers ● List of Certified Plans under Voluntary Health Insurance Scheme ● List of Registered Healthcare Providers for Electronic Health Record Sharing System 	<ul style="list-style-type: none"> ● 04/2019 ● 04/2019 ● 03/2019
	Hospital Authority	<ul style="list-style-type: none"> ● Waiting Time for New Case Booking for Specialist Outpatient Services ● General Outpatient Quotas ● Key Service Throughputs by Age Group and Gender ● Waiting Time for Elective Surgery 	<ul style="list-style-type: none"> ● 03/2019 ● 03/2019 ● By batches from 03/2019 ● 07/2019
	Department of Health	<ul style="list-style-type: none"> ● Classification and total of family attendances of Genetic Counselling Services ● Works of Narcotics and Drug Administration Unit ● Work of Elderly Health Service ● HIV Antibody Testing by Government Virus Unit ● Work of Special Preventive Programme for AIDS and Viral Hepatitis ● Work of General Dental Service ● Work of School Dental Care Service ● Work of Oral Health Education Unit ● Work of Port Health Office 	<ul style="list-style-type: none"> ● 01/2019 ● 01/2019 ● 01/2019 ● 01/2019 ● 01/2019 ● 01/2019 ● 01/2019 ● 01/2019 ● 01/2019

Data Category	B/D or Organisation	Datasets planned to be opened up	Target release date
Education	Education Bureau	<ul style="list-style-type: none"> ● Senior secondary subject information ● Information on Registered Courses under Cap. 493 conducted in Hong Kong ● Information on Exempted Courses under Cap. 493 conducted in Hong Kong ● Number of cross-boundary students in kindergartens, primary and secondary schools ● Vacancy Situation of Public Sector Primary Schools ● Vacancy Situation of Public Sector Secondary School ● Membership lists of Curriculum Development Council and its committees 	<ul style="list-style-type: none"> ● 01/2019 ● 04/2019 ● 04/2019 ● 05/2019 ● 06/2019 ● 06/2019 ● 09/2019
	Committee on Home-School Co-operation	<ul style="list-style-type: none"> ● Primary School Profiles ● Secondary School Profiles 	<ul style="list-style-type: none"> ● End of 2019 ● End of 2019
	University Grant Committee Secretariat	<ul style="list-style-type: none"> ● Funding for New and On-going Research Grant and Contract Projects by University and Source of Funding ● Students (Headcount) Who Discontinued Their Studies of UGC-funded Programmes (excluding research postgraduate) by University, Level of Study and Mode of Study ● Employment Situation of Graduates of Full-time UGC-funded Programmes by University, Level of Study, Employment Situation and Occupation ● Patent Application and Granted ● Number of Incoming Exchange Enrolled in UGC-funded Full-time Programmes by University, Level of Study and Place of Origin ● Number of Outgoing Exchange from UGC-funded Full-time Programmes by University, Level of Study and Place of Origin 	<ul style="list-style-type: none"> ● 01/2019 ● 06/2019 ● 06/2019 ● 06/2019 ● 01/2020 ● 01/2020

Data Category	B/D or Organisation	Datasets planned to be opened up	Target release date
Education	University Grant Committee Secretariat	<ul style="list-style-type: none"> ● Number of Graduates (Headcount) of UGC-funded Programmes by University, Level of Study, Mode of Study and Academic Programme Category ● Number of Graduates (Headcount) of UGC-funded Programmes by Level of Study, Broad Academic Programme Category and Sex ● Grants for UGC-funded Universities as a whole ● Research Output by University and Type of Research Output ● Student Enrolment (Headcount) of UGC-funded Programmes by University, Level of Study, Mode of Study and Sex ● Student Enrolment (Headcount) of UGC-funded Programmes by University, Level of Study, Mode of Study and Academic Programme Category ● Student Enrolment (Full-time equivalent) of First-year-first-degree Places of UGC-funded Programmes by University and Place of Origin ● Sub-degree/Undergraduate Students (Headcount) with Disability from UGC-funded Programmes by University ● Senior-year Student Intakes (Full-time equivalent) of UGC-funded Programmes by University and Mode of Study 	<ul style="list-style-type: none"> ● 01/2020 ● 01/2020 ● 01/2020 ● 01/2020 ● 06/2020 ● 06/2020 ● 06/2020 ● 06/2020 ● 06/2020
	Working Family and Student Financial Assistance Agency - Student Finance Office	<ul style="list-style-type: none"> ● Data on the average amount of assistance disbursed under the Kindergarten and Child Care Centre Fee Remission Scheme ● Data on the average amount of assistance disbursed under the Grant for School-related Expenses for Kindergarten Students 	<ul style="list-style-type: none"> ● 12/2019 ● 12/2019

Data Category	B/D or Organisation	Datasets planned to be opened up	Target release date
Education	Working Family and Student Financial Assistance Agency - Student Finance Office	<ul style="list-style-type: none"> ● Data on the average amount of assistance disbursed under School Textbook Assistance Scheme ● Data on the average amount of assistance disbursed under Subsidy Scheme for Internet Access Charges ● Data on the average amount of assistance disbursed under Examination Fee Remission Scheme 	<ul style="list-style-type: none"> ● 12/2019 ● 12/2019 ● 12/2019
Transport	Civil Aviation Department	<ul style="list-style-type: none"> ● Distribution of aircraft noise levels recorded at various districts in rolling 12 months ● Achievement rates of aircraft arriving between midnight and 07:00 hours to land from the southwest (Annual) ● Achievement rates of aircraft arriving between midnight and 07:00 hours to land from the southwest (Current Year) ● Achievement rates of aircraft departing on Runway 07 between 23:00 and 07:00 hours to use the southbound route via the West Lamma Channel (Annual) ● Achievement rates of aircraft departing on Runway 07 between 23:00 and 07:00 hours to use the southbound route via the West Lamma Channel (Current Year) 	<ul style="list-style-type: none"> ● 04/2019 ● 04/2019 ● 04/2019 ● 04/2019 ● 04/2019
	Development Bureau	<ul style="list-style-type: none"> ● Traffic, Pedestrian and Parking Survey Data 	<ul style="list-style-type: none"> ● 06/2019 (Phase 1), 12/2019 (Phase 2)
	Government Property Agency (GPA)	<ul style="list-style-type: none"> ● Government car parks open for public use under the purview of GPA ● Parking vacancy data of selected government car parks open for public use under the purview of GPA 	<ul style="list-style-type: none"> ● 12/2019 ● 01/2020

Data Category	B/D or Organisation	Datasets planned to be opened up	Target release date
Transport	Highways Department	<ul style="list-style-type: none"> ● Excavation Permit ● Lamp Post Locations 	<ul style="list-style-type: none"> ● 06/2019 ● 06/2019
	Immigration Department	<ul style="list-style-type: none"> ● Statistics on passenger traffic for festive periods ● Statistics on passenger, visitor and vehicular traffic 	<ul style="list-style-type: none"> ● 04/2019 ● 04/2019
	Hong Kong Science and Technology Parks Corporation (HKSTP)	<ul style="list-style-type: none"> ● HKSTP Mini-bus People Queue in Hong Kong Science Park ● Taxi & Mini-Bus Queue in Hong Kong Science Park 	<ul style="list-style-type: none"> ● 04/2019 ● 04/2019
	Marine Department	<ul style="list-style-type: none"> ● Arrival and departure information for cross boundary ferry service ● Marine accident statistics 	<ul style="list-style-type: none"> ● 06/2019 ● 06/2019
	Planning Department	<ul style="list-style-type: none"> ● Cross-boundary Travel Survey 2017 ● Cross-boundary Travel Survey 2020 	<ul style="list-style-type: none"> ● 01/2019 ● 12/2021
	Transport and Housing Bureau	<ul style="list-style-type: none"> ● Container throughput statistics 	<ul style="list-style-type: none"> ● 06/2019
	Airport Authority Hong Kong	<ul style="list-style-type: none"> ● Scheduled time of flight departure/arrival ● Estimated time of flight departure/arrival ● Actual time of flight departure/arrival ● Flight destination/origin ● Terminal and check-in aisle assignment for airlines ● Boarding gate assignment ● Baggage arrival reclaim carousel information 	<ul style="list-style-type: none"> ● 06/2019 ● 12/2019 ● 05/2020
	Transport Department	<ul style="list-style-type: none"> ● Snapshots captured by video detectors at North Lantau Highway ● Road traffic accident statistics for 2017 ● Roadworks location ● Real-time arrival data of bus routes under NWFB and Citybus ● Annual Traffic Census for 2018 ● Road traffic accident statistics for 2018 ● Particulars of first registered vehicles ● Cycle tracks and bicycle parking sites 	<ul style="list-style-type: none"> ● 01/2019 ● 06/2019 ● 06/2019 ● 3rd quarter of 2019 ● 12/2019 ● 12/2019 ● 12/2019 ● 03/2020

Data Category	B/D or Organisation	Datasets planned to be opened up	Target release date
Transport	Transport Department	<ul style="list-style-type: none"> ● Parking vacancy data of onstreet metered parking spaces ● Ferry schedules and fare tables ● Annual Traffic Census for 2019 ● Road traffic accident statistics for 2019 ● Traffic data of strategic/ major roads ● Annual Traffic Census survey data ● Annual Traffic Census for 2020 ● Road traffic accident statistics for 2020 	<ul style="list-style-type: none"> ● 03/2020 ● 12/2020 ● 12/2020 ● 12/2020 ● 01/2021 ● 01/2021 ● 12/2021 ● 12/2021

- End -

CONTROLLING OFFICER'S REPLY

ITB209

(Question Serial No. 3715)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the implementation of the initiatives on “enhancing the Government’s cyber security capability to address new security risks” stated in the Smart City Blueprint, please advise on the following:

- (1) The number of cyber attacks (web defacement, intrusion of networking and information systems, distributed denial of service (DDoS) attacks, ransomware and data leakage) targeting government networks and websites in 2018-19, broken down by department and type of security incidents in tabular form;
- (2) What are the estimated expenditure, study area and timetable involved in the study and review on the government IT security policy, as well as the expenditure for engaging consultants?
- (3) What are the government bureaux and departments with IT security compliance monitoring and audits planned to be conducted in 2019-20?
- (4) What is the percentage of government IT staff who have obtained the professional qualifications on information security against the total number of staff? What is the estimated expenditure of the Government for training information security professionals in 2019-20?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 121)

Reply:

The required information is provided as follows:

- (1) In 2018-19 (as at end-February 2019), the Office of the Government Chief Information Officer received a total of 11 government information security incident reports involving 9 departments, including 8 cases of ransomware infection, 1 case of web defacement, 1 case of data leakage and 1 case of computer system intrusion.

- (2) We will commence a review on the government information technology (IT) security policy in the second quarter of 2019. The review will last for about 16 months with an estimated expenditure of about \$4 million. It will examine the existing government regulations, policies and guidelines related to IT security, and recommend appropriate updates with reference to international standards, industry best practices and the latest information and cyber security landscape.
- (3) Regarding the information security compliance audits commenced in December 2016, the Government has completed audits for about 70 bureaux and departments (B/Ds) so far. The audits for the remaining 10 B/Ds or so are expected to complete in mid-2019. We plan to commence a new round of compliance audits in the second half of 2019.
- (4) Around 180 government IT staff members have obtained information security professional qualifications, representing about 10% of the total size of government IT staff. In 2019-20, the Government's estimated expenditure for training information security professionals is about \$500,000.

- End -

CONTROLLING OFFICER'S REPLY

ITB210

(Question Serial No. 3717)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

- (1) The expenditure on procuring business software licences and related services by government bureaux and departments (B/Ds) for the implementation of computer projects under the Capital Works Reserve Fund Head 710 – Computerisation:

	2018-19	2019-20 (Estimate)
Expenditure on procuring business software licences and related services		
Percentage of the expenditure against IT expenditure for the year		
Increase		

- (2) The percentages of B/Ds that have adopted open source software against the overall percentage:

	2018-19	2019-20 (Estimate)
Server software		
Office personal computers		
Departmental portals		
Government mobile applications		

- (3) Has any study been conducted to assist B/Ds in adopting more open standard software to cut down expenses so that the costs of business software licences can be reduced?
- (4) Has any study been conducted to open up some source code licences of applications developed by the Government for public use to promote the adoption of innovative technologies in the community?

Asked by: Hon MOK Charles Peter (LegCo internal reference no.: 122)

Reply:

The required information is provided as follows:

- (1) The expenditure on procuring business software licences and related services by bureaux and departments (B/Ds) for the implementation of computer projects under the Capital Works Reserve Fund Head 710 – Computerisation is tabulated as follows:

	2018-19	2019-20 (Estimate)
Expenditure on procuring business software licences and related services	\$292 million	\$362 million
Percentage of the expenditure against IT expenditure for the year	14.1%	14.1%
Increase	-	\$70 million (+24%)

- (2) Percentage of B/Ds that have adopted open source software (OSS):

	2018-19	2019-20 (Estimate)
Server software	92%	Similar to that of 2018-19
Office personal computers	7%	
Departmental portals	90%	
Government mobile applications	100%	

- (3) The Government has been adopting OSS to build government IT infrastructure and develop e-Government services. The Office of the Government Chief Information Officer will continue to promote and support wider adoption of OSS wherever feasible in various departments.
- (4) According to the prevailing government policy, except for public interest, legal or regulatory considerations as appropriate, B/Ds can allow the ownership of the intellectual property rights created in IT systems to be vested in the contractors who develop them, with a view to fostering innovation and technology development.

- End -

CONTROLLING OFFICER'S REPLY

ITB211

(Question Serial No. 2251)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

According to the 2019-20 Budget, the Government will deploy \$500 million to implement the IT Innovation Lab in Secondary Schools Programme in the coming 3 school years. Each secondary school benefiting will be granted \$1 million to procure the necessary information technology (IT) equipment and professional services, and organise more relevant extra-curricular activities to deepen students' knowledge of cutting-edge IT. Please inform this Committee of the following:

1. Will the Government allocate more resources and manpower for teacher training apart from hardware support?
2. Will consideration be given to extending the programme to primary schools?
3. Will the Government actively consider running coding and artificial intelligence courses in secondary and primary schools so as to nurture innovation and technology talent at the young age (of students)?

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 194)

Reply:

In consultation with the Education Bureau (EDB), the required information is provided as follows:

- (1) The "IT Innovation Lab in Secondary Schools" initiative provides financial support to each publicly-funded secondary school in Hong Kong to procure information technology (IT) equipment and professional services and support them to organise IT-related extra-curricular activities (ECA). The scope of funding does not cover teacher training. In fact, the requirement for teachers' IT professional knowledge to organise related activities for secondary students should not be too demanding. The one-stop support centre set up by the Office of the Government Chief Information Officer (OGCIO) will make reference to EDB's arrangements of subsidising ECA to enable schools to procure tutorial support services and arrange time-limited manpower to assist in the planning work, such as engaging coding instructors or relevant

technology experts, etc. with the funding of the “IT Innovation Lab in Secondary Schools” initiative. Schools may also choose the professional services available in the market according to their actual situation.

- (2) The “IT Innovation Lab in Secondary Schools” is an enhancement initiative launched under the existing “Enriched IT Programme in Secondary Schools” (EITP), and the scope of funding is extended to all publicly-funded secondary schools. It aims to nurture secondary students’ interest in learning IT so as to encourage them to enrol in technology related post-secondary programmes a few years later and pursue a future career in innovation and technology. Based on the implementation experience of EITP, we consider it more appropriate to guide secondary school students to learn advanced technologies such as artificial intelligence (AI) and big data, and understand the development of digital transformation.
- (3) EDB has developed a series of modular Computer Awareness Programmes for primary schools, and part of the contents therein were updated in 2015. The programmes, which include basic programming, enable students to grasp basic programming skills and computer knowledge. To cater for the development needs of technology education and STEM education, EDB prepared the “Computational Thinking – Coding Education: Supplement to the Primary Curriculum” in 2017 for schools’ adoption to further enhance coding education at the primary level and hence develop students’ computational thinking.

At the secondary level, programming-related contents are covered through the implementation of the Technology Education Key Learning Area (TEKLA) curriculum. TEKLA provides a flexible and open framework for schools to develop their school-based technology education curriculum in light of their strengths and the needs of their students. It is recommended that schools allocate no less than 30% lesson time of the Information and Communications Technology (ICT) knowledge area to the teaching of programming at the junior secondary level. In 2017, EDB updated the TEKLA Curriculum Guide, which was enhanced according to the “Computational Thinking – Coding Education: Supplement to the Primary Curriculum”. ICT is offered as an elective subject at the senior secondary level, so that students who are talented or interested may learn programming further. EDB is reviewing the senior secondary ICT curriculum and considering to increase lesson time for programming as well as include contents related to AI.

- End -

CONTROLLING OFFICER'S REPLY

ITB212

(Question Serial No. 2252)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the “electronic identity” (eID), please inform this Committee of the following:

- (1) When will the open application programming interface (API) be launched?
- (2) Will fees be charged when merchants check the authenticity of clients’ identities with API? If yes, what are the fees?
- (3) Will the Government promote the development of application solutions? If yes, what are the details? If not, what are the reasons?
- (4) How will eID be provided to the public?
- (5) What are the measures to strengthen the security of eID?

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 195)

Reply:

The required information is provided as follows:

- (1) Upon completion of the development work for the Application Programming Interface (API) of the “electronic identity” (eID) in the second half of 2019, the Office of the Government Chief Information Officer (OGCIO) will provide the relevant technical information to public and commercial organisations to facilitate their planning for computer system upgrade, thus paving the way for eID adoption in future.
- (2) We will decide whether fees will be charged for the use of API by commercial organisations in the second half of 2019.
- (3) OGCIO is liaising with government departments and devising the timetable and details of eID adoption in e-Government services. We expect that upon its launch in mid-2020, eID will be adopted by 26 e-Government services, which include the application for or access to Home Ownership Scheme, “eTax”, Renewal of Driving

Licence, Registration of Outbound Travel Information, job seeker registration, etc. By mid-2021, we expect that most of the e-Government services (over 110) will enable user login using eID.

- (4) The eID registration process is simple. Citizens can make use of their personal mobile devices installed with a specific mobile app, or visit designated self-service kiosks and service counters at government departments to register and obtain their eID right away.
- (5) In designing and developing the eID system, OGCIO will include the relevant security requirements to protect users' personal data and system security in accordance with the government information technology security policy and guidelines and the provisions of the Personal Data (Privacy) Ordinance. We will also adopt internationally recognised and prevalent security technologies and standards, such as facial recognition, Fast IDentity Online, public key infrastructure, etc., to authenticate the identity of users. Users' data will also be encrypted and stored in government data centre facilities to protect the security of users' data.

- End -

CONTROLLING OFFICER'S REPLY

ITB213

(Question Serial No. 2253)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

What are the specific measures taken by the Government to drive web/mobile app accessibility in 2019-20? What are the staff establishment and expenditure involved?

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 196)

Reply:

In 2019-20, the Office of the Government Chief Information Officer (OGCIO) will continue to drive the adoption of web/mobile app accessibility design through various measures, including promulgating related guidelines and practical information such as “Web Accessibility Handbook”, “Mobile Application Accessibility Handbook” and accessible mobile application templates through the thematic portal to provide guidelines for non-governmental and private organisations in adopting accessibility design. OGCIO will also enhance the awareness of accessibility design across different sectors through organising seminars and workshops. The manpower required is met by internal deployment within OGCIO. No additional expenditure is involved.

In addition, the Hong Kong Internet Registration Corporation Limited and OGCIO will co-organise a new round of the Web Accessibility Recognition Scheme in 2019-20, providing participating organisations with free assessment and advisory services to help them understand the related technical requirements, and encouraging more non-governmental and private organisations to adopt web/mobile app accessibility design.

- End -

CONTROLLING OFFICER'S REPLY**ITB214****(Question Serial No. 2254)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

It was pointed out in the Matters Requiring Special Attention in 2019-20 that (the Government) will continue to oversee the enhancement of public Wi-Fi services. What is the current coverage of public Wi-Fi services? What is the target coverage set by the Government? What measures will be taken to enhance the coverage of public Wi-Fi services?

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 197)

Reply:

As at end-February 2019, the number and distribution of “Wi-Fi.HK” hotspots under the Wi-Fi Connected City Programme are as follows:

Number of Hotspots	
Hong Kong	
Central and Western District	2 918
Eastern District	605
Southern District	1 434
Wan Chai	1 760
Kowloon	
Kowloon City	3 587
Yau Tsim Mong	1 904
Sham Shui Po	662
Wong Tai Sin	436
Kwun Tong	639
New Territories	
Tai Po	292

Number of Hotspots	
Yuen Long	633
Tuen Mun	1 444
North District	294
Sai Kung	1 039
Sha Tin	3 596
Kwai Tsing	367
Tsuen Wan	395
Islands	1 161
Total:	23 166

We will continue to increase the number of “Wi-Fi.HK” hotspots through various means, including promoting the “Wi-Fi.HK” brand and encouraging more participation of the industry and public and private organisations, to provide free Wi-Fi service for the public and tourists in all districts of Hong Kong. In addition, we will extend the coverage of free Wi-Fi service, through funding by the Government or public-private collaboration model, to more government venues such as public hospitals, sitting-out areas in public housing estates and small parks in the districts. We will continue to explore the provision of Wi-Fi service at other suitable tourist attractions to facilitate tourists to use the service. Our target is to increase the number of “Wi-Fi.HK” hotspots to 34 000 by the end of 2019.

- End -

CONTROLLING OFFICER'S REPLY

ITB215

(Question Serial No. 4031)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned under Matters Requiring Special Attention in 2019-20 that the Government's online one-stop service portal will introduce artificial intelligence and chatbot functions. What is the estimated schedule of the Government to roll out the functions? What are the manpower and expenditure involved?

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 202)

Reply:

The Office of the Government Chief Information Officer (OGCIO) is implementing the chatbot function that adopts artificial intelligence technology to facilitate the public to search and access e-Government services on the GovHK portal. The function is expected to be launched at the end of 2019.

The estimated expenditure for implementing the chatbot service is about \$5.6 million and the manpower for related work will be met by internal deployment within OGCIO.

- End -

CONTROLLING OFFICER'S REPLY

ITB216

(Question Serial No. 4036)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

On enhancing cyber technology security, will the SAR Government advise on the following:

1. Please provide in tabular form the names of the government departments that have conducted reviews of their cyber technology security, the number and details of items under review, as well as the manpower and expenditure involved in the past 3 years.
2. Please provide in tabular form the names of the government departments that have made enhancement to their cyber technology security, the number and details of items enhanced, as well as the manpower and expenditure involved in the past 3 years.
3. Please provide in tabular form the names of the government departments that have not made enhancement to their cyber technology security in the past 3 years.

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 103)

Reply:

The required information is provided as follows:

- (1) to (3) The Government continuously reviews and enhances information security level from various aspects. According to the Government Information Technology (IT) Security Policy, all bureaux/departments (B/Ds) are required to conduct information security risk assessments and audits once every two years to ensure that they have adopted effective security measures. Relevant B/Ds will also carry out similar work before launching new information systems or conducting a large-scale upgrade on existing information systems.

In addition, the Office of the Government Chief Information Officer (OGCIO) will conduct independent information security audits for all B/Ds every two to three years to ensure that they comply with the Government IT Security Policy and continuously improve their information security management system and

security level. As such, all B/Ds have reviewed their information security and enhanced their information security level according to the corresponding recommendations at least once during the past 3 years.

B/Ds obtain funding mainly from the block allocation under Capital Works Reserve Fund Head 710 Computerisation or from the development and maintenance expenditure of the relevant information systems to carry out information security risk assessments or information security enhancement projects. In the past 3 years, the total expenditure and the numbers of B/Ds and projects involved are as follows:

	2016-17	2017-18	2018-19 (As of end-February 2019)
Total expenditure (\$ million)	133	183	101
Number of B/Ds	60	63	53
Number of projects	143	146	119

In addition, individual B/Ds will include information security risk assessments or information security enhancement in the development and maintenance of information systems. OGCIO does not have the relevant breakdown figures.

The manpower involved in implementing the above projects is generally met by internal deployment within B/Ds.

- End -

CONTROLLING OFFICER'S REPLY**ITB217****(Question Serial No. 4038)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the government procurement under information technology (IT) category, will the SAR Government advise on the following:

- (1) Please list out in tabular form the details of the government procurement under IT category, as well as the numbers and value of procurement orders in the past 3 years.
- (2) Further to the above question, please list out in tabular form the details of the orders undertaken by local small and medium enterprises (SMEs) among the government procurement under IT category, as well as the numbers and value of these procurement orders in the past 3 years.
- (3) What are the details of the Government's work in encouraging various government departments to enhance the procurement of IT products from local SMEs as well as the manpower and expenditure involved in the past 3 years?

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 105)

Reply:

The required information is provided as follows:

- (1) The number and value of procurement orders made by bureaux and departments (B/Ds) on information technology (IT) products and services through the Standing Offer Agreements (SOAs) administered by the Office of the Government Chief Information Officer (OGCIO) in the past 3 financial years are tabulated below:

Year	2016-17	2017-18	2018-19 (as at end-February 2019)
IT Product	\$455 million (4 711 orders)	\$586 million (4 145 orders)	\$725 million (4 647 orders)
IT Service	\$400 million (2 189 orders)	\$591 million (3 183 orders)	\$482 million (2 524 orders)

- (2) The number and value of procurement orders made by B/Ds on IT products and services from local small and medium enterprises (SMEs) through SOAs in the past 3 financial years are tabulated below:

Year	2016-17	2017-18	2018-19 (as at end-February 2019)
IT Product	\$19 million (217 orders)	\$28 million (323 orders)	\$43 million (449 orders)
IT Service	\$57 million (99 orders)	\$87 million (165 orders)	\$89 million (158 orders)

- (3) Over the years, OGCIO strives to encourage local SMEs to bid for government IT projects and participate in SOAs. There is also a continuous growth in the number and value of procurement orders undertaken by local SMEs from B/Ds through SOAs. The work involved is mainly met by the existing resources and manpower of OGCIO without incurring additional expenditure.

Furthermore, OGCIO will establish the Smart Government Innovation Lab in April 2019 to facilitate the industry to support B/Ds in adopting IT to improve public services as well as conducting trials and technology testing of suitable solutions, thus fostering public-private collaboration and creating more business opportunities for local start-ups and SMEs. The estimated expenditure for the Smart Government Innovation Lab in 2019-20 is about \$4.9 million. OGCIO will create 4 IT professional civil service posts to carry out the related work.

- End -

CONTROLLING OFFICER'S REPLY

ITB218

(Question Serial No. 4920)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

According to the 2019-20 Budget, the Government will “deploy \$500 million to implement the IT Innovation Lab in Secondary Schools Programme in the coming 3 school years. Each secondary school benefiting will be granted \$1 million to procure the necessary information technology (IT) equipment and professional services, and organise more relevant extra-curricular activities to deepen students’ knowledge of cutting-edge IT, such as artificial intelligence, blockchain, cloud computing and big data”. How will the Government monitor the use of the funding by secondary schools to achieve the above results, and will guidelines on how to use the funding effectively be provided to secondary schools?

Asked by: Hon QUAT Elizabeth (LegCo internal reference no.: 145)

Reply:

In applying for the funding, schools will draw up a proposal under the “IT Innovation Lab in Secondary Schools” initiative taking into account their actual situation and the needs of their students. The proposal should include information technology (IT) equipment and professional services to be procured, relevant extra-curricular activities (ECA) to be organised and the funding required. The Office of the Government Chief Information Officer (OGCIO) will be responsible for vetting and approving the applications, and disbursing the funding required accordingly each year. Funded schools are required to submit an annual report on the expenditure for and usage of the procured equipment and services to ensure proper use of the funding. We will assess the actual implementation and effectiveness of the initiative in light of the technology development, school needs and other relevant funding measures, etc.

OGCIO will issue application guidelines and reference list of IT equipment, and set up a one-stop support centre to provide advice to schools on the relevant professional services and IT-related ECA.

- End -

CONTROLLING OFFICER'S REPLY

ITB219

(Question Serial No. 0157)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Financial Secretary states that \$500m will be deployed to implement the IT Innovation Lab in Secondary Schools Programme in the coming three school years, while each benefiting school will be granted \$1m. May the Administration inform this Committee:

- (1) of the details and timetable for implementation; whether interested schools will be required to submit proposal and budget and subject to assessments upon application, and whether guideline to procure “the necessary information technology (IT) equipment and professional services” will be provided;
- (2) As the Office of the Government Chief Information Officer is going to set up a one-stop professional support centre to provide assistance, of the resources earmarked for this year for operating this centre.

Asked by: Hon SHEK Lai-him, Abraham (LegCo internal reference no.: 40)

Reply:

The required information is provided as follows:

- (1) The Office of the Government Chief Information Officer (OGCIO) plans to launch the “IT Innovation Lab in Secondary Schools” initiative before the end of 2019, which will provide a maximum funding of \$1 million to each publicly-funded secondary school in Hong Kong in the 3 school years from 2019/20 to 2021/22 for them to procure IT equipment and organise IT-related extra-curricular activities (ECA). Schools are required to draw up a proposal under the “IT Innovation Lab in Secondary Schools” initiative taking into account their actual situation and the needs of their students. The proposal should include IT equipment and professional services to be procured, relevant ECA to be organised and the funding required. OGCIO will be responsible for vetting and approving the applications, and disbursing the funding required accordingly each year.

OGCIO will issue application guidelines and reference list of IT equipment, and set up a one-stop support centre to provide advice to schools on the relevant professional services and IT-related ECA.

- (2) The estimated annual expenditure for the one-stop support centre is \$11.6 million.

- End -

CONTROLLING OFFICER'S REPLY

ITB220

(Question Serial No. 1622)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding the programme to deploy \$500 million to provide grants of \$1 million for each secondary schools benefiting for procuring information technology (IT) (equipment) and professional services in the coming 3 years,

- (1) Will procurement guidelines be devised for the schools?
- (2) Will the items and services procured by the schools and the expenditure involved be recorded?
- (3) What can be done to ensure that the IT items and services procured by the schools are directly related to the "cutting-edge IT" such as artificial intelligence, blockchain, cloud computing and big data referred to by the (Financial) Secretary, so as to prevent the schools from wasting resources by improperly procuring products and services not in line with the funding and policy objectives?

Asked by: Hon TSE Wai-chun, Paul (LegCo internal reference no.: 46)

Reply:

The required information is provided as follows:

- (1) The Office of the Government Chief Information Officer (OGCIO) will issue application guidelines and reference list of IT equipment to schools, and set up a one-stop support centre to provide advice to schools on the relevant professional services and IT-related extra-curricular activities (ECA).
- (2) Schools are required to submit an annual proposal in applying for the funding, indicating how the procured IT equipment and professional services will be used to organise suitable ECA. Funded schools are required to submit an annual report on the expenditure for and usage of the procured equipment and services.

- (3) Schools are required to procure equipment and services in accordance with the proposal approved by OGCIO. OGCIO will also review the annual reports submitted by schools to ensure proper use of the funding.

- End -

CONTROLLING OFFICER'S REPLY

ITB221

(Question Serial No. 3511)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The “Smart Government Innovation Lab” and the TechConnect are mentioned under Matters Requiring Special Attention in 2019-20. Please inform this Committee of the following:

- (1) Is the above Smart Government Innovation Lab a permanent department? If not, what is the duration of operation?
- (2) What are the responsibilities, organisation, staff establishment and expenditure of that department?
- (3) What are the measures and policies to promote the adoption of innovative technology in government departments?
- (4) What are the details and estimated expenditure of the TechConnect?

Asked by: Hon TSE Wai-chun, Paul (LegCo internal reference no.: 61)

Reply:

The required information is provided as follows:

- (1) The “Smart Government Innovation Lab” (Smart Lab) to be established in April 2019 is a permanent work unit of the Office of the Government Chief Information Officer (OGCIO).
- (2) The “Smart Lab” aims to facilitate wider adoption of information technology (IT) by government departments to improve public services and address different city management challenges. In 2019-20, OGCIO will create 4 IT professional civil service posts, including 1 Senior Systems Manager, 1 Systems Manager, 1 Analyst/Programmer I, and 1 Analyst/Programmer II. The estimate expenditure for the “Smart Lab” in 2019-20 is about \$4.9 million.

- (3) Through the “Smart Lab”, OGCIO will conduct trials and technology testing in collaboration with government departments on IT solutions which address their business needs. The “Smart Lab” will also showcase technologies that have been successfully tested by government departments, such as chatbot, virtual reality, geospatial technology, etc., with a view to inspiring wider adoption among government departments.

OGCIO will set up the “Smart Lab” thematic website to share the challenges being faced by different public services, and invite the industry to submit technology solutions and product suggestions for addressing such challenges. OGCIO will organise technology forums in collaboration with Cyberport and Hong Kong Science Park for the industry players to share their technology solutions and success stories, and how these technologies can be used to improve public services. Local start-ups and small and medium enterprises joining the forums can better understand and appreciate the business needs of government departments, and submit proposals to the “Smart Lab” for addressing different city management challenges. We aim to organise the first technology forum in June 2019, and then hold it on a quarterly basis. OGCIO will upload the technology solutions and suggestions received to the “Smart Lab” thematic website and arrange thematic workshops for government departments so that they could better understand the solutions and products that suit their needs, and conduct trials and technology testing for suitable solutions in the “Smart Lab”.

Apart from establishing the “Smart Lab”, the Innovation and Technology Bureau (ITB) has set up the “TechConnect (Block Vote)” in mid-2017 to support various government departments in planning and taking forward technology projects, so as to enhance operational efficiency and improve public services with the use of technology.

Besides, the Electrical and Mechanical Services Department has officially launched the online innovation and technology (I&T) collaboration platform “E&M InnoPortal” in June 2018 to match the needs of government departments for electrical and mechanical related new technologies with the I&T projects of start-ups.

- (4) ITB has so far agreed to support 48 technology projects or studies proposed by 21 departments, involving over \$300 million in total. In 2019-20, the estimated expenditure of the “TechConnect (Block Vote)” is about \$200 million.

- End -

CONTROLLING OFFICER'S REPLY

ITB222

(Question Serial No. 3634)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

On “continuing to implement the Multi-functional Smart Lampposts pilot project in selected locations”:

- (1) Please list out in tabular form the locations where smart lampposts have been installed and locations where smart lampposts will be installed in 2019-20.
- (2) What are the installation and maintenance costs of each smart lamppost? Have there been any operational or maintenance issues regarding the smart lampposts already installed? If yes, what are the details?
- (3) What kinds of data have been collected by each smart lamppost? How are those data being utilised by various departments? Have any new public services been introduced in light of the new data collected?

Asked by: Hon WU Chi-wai (LegCo internal reference no.: 91)

Reply:

The required information is provided as follows:

- (1) and (2) Under the Multi-functional Smart Lampposts pilot scheme, the Office of the Government Chief Information Officer (OGCIO) together with the Highways Department will install some 400 lampposts equipped with smart devices at selected urban locations, namely Central/Admiralty, Causeway Bay/Wan Chai, Tsim Sha Tsui and Kwun Tong/Kai Tak Development Area. The procurement work for some 50 lampposts in the first phase has largely been completed and the lampposts will come into operation progressively by mid-2019. The remaining lampposts will be installed in phases and all works are expected to be completed in 2021-22.

The locations of the 85 smart lampposts expected to be installed in 2019 are tabulated as follows:

Selected Locations for Smart Lamppost Installation	Number of Smart Lampposts
<u>First Phase (by mid-2019)</u>	
• Sheung Yuet Road, Kwun Tong	24
• Shing Kai Road, Kowloon City	20
• Urban Renewal Authority (URA) Kwun Tong Town Centre Project	8
<u>Second Half of 2019</u>	
• URA Kwun Tong Town Centre Project	12
• Near Kai Tak Cruise Terminal, Kowloon City	21

The locations of the remaining smart lampposts to be installed would be determined at a later stage after consultation with the relevant district councils.

The estimated expenditure for the pilot scheme is \$272 million, including design and manufacture of smart lampposts, smart devices such as sensors and cameras, smart device management and data transmission systems, additional road works including installation of lampposts, smart devices, network equipment and telecommunications cabling, electrical and minor utility diversion works, etc. In 2019-20, the estimated project expenditure (including smart devices) and operating expenditure (including lamppost daily operation and maintenance) for the pilot scheme are \$48 million and \$7.15 million respectively.

- (3) The Multi-functional Smart Lampposts will collect various city data to enhance city management and public services.
- (a) On meteorology, the Hong Kong Observatory will use meteorological sensors to collect real-time meteorological and related data at district level, including temperature, humidity, wind speed and direction, rainfall, UV index, etc., in order to enhance meteorological monitoring/forecasting at district level.
 - (b) On environmental protection, the Environmental Protection Department will use air quality sensors to collect real-time air quality data at district level and use surveillance cameras to assist in law enforcement work against illegal dumping of construction waste.
 - (c) On transport, the Transport Department will use traffic detectors and surveillance cameras to collect real-time traffic data, including vehicle speed, vehicle type and traffic flow, etc., and monitor traffic conditions, such as taking prompt actions in response to different traffic conditions and incidents.
 - (d) On tourism, the Tourism Commission will use the data collected by smart lampposts to provide the travel industry/agents with district traffic

information or reminders to help them plan their journeys to avoid congested areas so as to enhance tourists' travel experience in Hong Kong.

- (e) On geo-positioning, the Lands Department will install Bluetooth transmitters and adopt radio frequency identification (RFID) technology and geographic-QR codes to provide accurate location services to support government services and the development of relevant applications by the industry, such as providing citizens and tourists with information about public facilities in their vicinity.

City data collected from the Multi-functional Smart Lampposts will be released free of charge through the "data.gov.hk" portal, facilitating the public and the industry to use these data to develop more innovative applications.

- End -

CONTROLLING OFFICER'S REPLY

ITB223

(Question Serial No. 3642)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

On “continuing to implement the next generation integrated government cloud infrastructure to enable more efficient delivery of public services”:

1. What is the current progress of the implementation of the next generation integrated government cloud infrastructure?
2. Regarding the large-scale information technology system projects implemented by various departments, will the Office of the Government Chief Information Officer (OGCIO) offer advice on such projects or take part in drafting the tenders to ensure that the government cloud infrastructure will be adopted in various large-scale projects? If yes, what are the details? For example, when will OGCIO offer its advice or take part in the projects?

Asked by: Hon WU Chi-wai (LegCo internal reference no.: 99)

Reply:

The required information is provided as follows:

- (1) The Office of the Government Chief Information Officer (OGCIO) is inviting tenders for the implementation of the Next Generation Government Cloud Infrastructure (GovCloud). The system is expected to be launched in the third quarter of 2020.
- (2) In August 2016, OGCIO issued guidelines to bureaux and departments (B/Ds) requesting them to accord priority to adopting GovCloud when developing new systems or revamping existing systems. In general, B/Ds are adopting GovCloud when developing or revamping large-scale information technology systems. OGCIO will also provide advice and suggestions to individual B/Ds at appropriate juncture so that they can suitably include the requirement of adopting GovCloud in their tender documents.

- End -

CONTROLLING OFFICER'S REPLY**ITB224****(Question Serial No. 2689)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Office of the Government Chief Information Officer delivers and enhances the Government's online one-stop service portal. In this connection, please inform this Committee, in tabular form, the numbers and types of user complaints about the Government's online one-stop service portal in the past 3 years, and the staff establishment and expenditure for handling related complaints.

Asked by: Hon YEUNG Alvin (LegCo internal reference no.: 101)

Reply:

In the past 3 years, the numbers and types of complaints received by the Office of the Government Chief Information Officer (OGCIO) relating to the GovHK Portal are as follows:

Type of complaints	Number of complaints		
	2016-17	2017-18	2018-19 (Up to end Feb 2019)
Services inconvenient to use	9	8	6
Information/services not available	2	2	0

The work involved in handling these complaints was absorbed by existing manpower of OGCIO and no breakdown of expenditure is available.

- End -

CONTROLLING OFFICER'S REPLY**ITB225****(Question Serial No. 4958)**

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title): (000) Operational expenses

Programme: (1) Use of IT in Government

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

Regarding government computers, please advise on the following:

- (1) Please list out in tabular form (i) the numbers of computers with different versions of operating systems (including but not limited to Windows 10, Windows 7, Windows XP, Linux) and (ii) the total numbers of computers in the Government's possession in the financial years (FY) of (a) 2015-16, (b) 2016-17, (c) 2017-18, (d) 2018-19 and (e) 2019-20 (estimate).

	(i) *Number of computers with *different versions of operating systems	(ii) Total number of computers
(a) FY 2015-16		
(b) FY 2016-17		
(c) FY 2017-18		
(d) FY 2018-19		
(e) FY 2019-20 (estimate)		

- (2) Regarding those government computers whose operating systems have been phased out and ceased to be supported by their developers, please list out in tabular form how they were handled by the Government, including but not limited to (i) being kept in use, (ii) system renewal or upgrading, (iii) being destroyed and disposed of and (iv) other options (please specify) in the FYs of (a) 2015-16, (b) 2016-17, (c) 2017-18, (d) 2018-19 and (e) 2019-20 (estimate).

	(i) Being kept in use	(ii) System renewal or upgrading	(iii) Being destroyed and disposed of	(iv) *Other options*
(a) FY 2015-16				
(b) FY 2016-17				
(c) FY 2017-18				
(d) FY 2018-19				
(e) FY 2019-20 (estimate)				

- (3) Please list out in tabular form the numbers of computers destroyed and disposed of by the Government in the FYs of (a) 2015-16, (b) 2016-17, (c) 2017-18, (d) 2018-19 and (e) 2019-20 (estimate).

	Number of computers destroyed and disposed of
(a) FY 2015-16	
(b) FY 2016-17	
(c) FY 2017-18	
(d) FY 2018-19	
(e) FY 2019-20 (estimate)	

- (4) Please list out in tabular form the numbers of computers newly procured by the Government in the FYs of (a) 2015-16, (b) 2016-17, (c) 2017-18, (d) 2018-19 and (e) 2019-20 (estimate).

	Number of computers newly procured
(a) FY 2015-16	
(b) FY 2016-17	
(c) FY 2017-18	
(d) FY 2018-19	
(e) FY 2019-20 (estimate)	

Asked by: Hon YEUNG Alvin (LegCo internal reference no.: 136)

Reply:

The required information is provided as follows:

- (1) The computer operating systems now in use internally by the Government include various versions of Microsoft Windows (Win 10, Win 8.1, Win 7 and a small quantity of Win Vista and Win XP), Linux and Apple's Mac OS X. Due to the time when different systems were developed and their technical support, computers running on Win Vista and Win XP are for specific purposes (such as testing system compatibility) and being used in off-line mode only. Based on the information provided by various bureaux and departments (B/Ds), the numbers of computers in the Government's possession in the financial years from 2015-16 to 2018-19 are tabulated as follows (the estimated figures for the 2019-20 financial year are not available from B/Ds):

	Approximate number of computers
(a) FY 2015-16	160 000
(b) FY 2016-17	162 000
(c) FY 2017-18	177 000
(d) FY 2018-19 (as at end-Feb 2019)	182 000
(e) FY 2019-20 (estimate)	Not available currently

FY – Financial Year

We do not have a breakdown of computers running on different operating systems.

- (2) B/Ds are required to follow the “Practice Guide for Software End-of-Support Management” issued by the Office of the Government Chief Information Officer (OGCIO) to properly manage their computers and the related software, and formulate relevant plans such as updating computer systems having regard to the end-of-support date of the products so as to ensure that the computer systems in question can be used continuously and the upgrading and replacement of the computer systems can be carried out in a timely manner. OGCIO does not have detailed statistics on the procurement and replacement of related operating systems by B/Ds.
- (3) B/Ds are required to destroy and dispose of computers no longer in use in accordance with the “Disposal of Government Stores” Circular issued by the Government Logistics Department. The numbers of computers destroyed and disposed of by OGCIO in the financial years from 2015-16 to 2018-19 are tabulated as follows:

	Number of computers destroyed and disposed of
(a) FY 2015-16	185
(b) FY 2016-17	434
(c) FY 2017-18	424
(d) FY 2018-19 (as at end-Feb 2019)	734
(e) FY 2019-20 (estimate)	Not available currently

OGCIO does not have the statistics of other B/Ds.

- (4) B/Ds can procure computer products by themselves through tender exercises or the Standing Offer Agreement (SOA) administered by OGCIO. The information of computer products (such as the quantity and expenditure involved) procured by B/Ds through tender exercises is kept by B/Ds themselves. OGCIO does not have the statistics in this regard. The numbers of computers newly procured by B/Ds through SOA in the financial years from 2015-16 to 2018-19 are tabulated as follows:

	Number of newly procured computers
(a) FY 2015-16	9 044
(b) FY 2016-17	8 779
(c) FY 2017-18	10 478
(d) FY 2018-19 (as at end-Feb 2019)	13 510
(e) FY 2019-20 (estimate)	Not available currently

- End -

CONTROLLING OFFICER'S REPLY

ITB226

(Question Serial No. 1521)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (3) IT in the Community

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Innovation and Technology Bureau will continue to enhance public Wi-Fi services this year. Will the Government inform this Committee of the following:

- (1) Under the Wi-Fi Connected City Programme, what are the number of Wi-Fi hotspots covered and the average connection speed at present?
- (2) Regarding the above programme, has the Government formulated the coverage or timetable of Wi-Fi hotspots for the coming few years? If yes, what are the details?

Asked by: Hon YIU Si-wing (LegCo internal reference no.: 22)

Reply:

The required information is provided as follows:

- (1) As at end-February 2019, the number of "Wi-Fi.HK" hotspots under the Wi-Fi Connected City Programme is 23 166. According to the inspections conducted in 2018 by the third party organisation we engaged, the average connection speed of the "Wi-Fi.HK" hotspots was above 20Mbps. In 2018-19, we have set up new high-speed Wi-Fi access points at the Golden Bauhinia Square, Temple Street (at Pai Lau near Jordon Road), the Hong Kong-Zhuhai-Macao Bridge Passenger Clearance Building, the Peak and the Kowloon Visitor Centre at the Tsim Sha Tsui Pier, with average connection speed reaching 100 Mbps.
- (2) We will continue to expand the coverage of "Wi-Fi.HK" hotspots through various means, including promoting the "Wi-Fi.HK" brand and encouraging more participation of the industry and public and private organisations, to provide free Wi-Fi service for the public and tourists in all districts of Hong Kong. At the same time, we will extend the coverage of free Wi-Fi service, through funding by the Government or public-private collaboration model, to more government venues such

as public hospitals, sitting-out areas in public housing estates and small parks in the districts. We will also continue to explore the provision of Wi-Fi service at other suitable tourist attractions to facilitate tourists to use the service. Our target is to increase the number of “Wi-Fi.HK” hotspots to 34 000 by the end of 2019.

- End -

CONTROLLING OFFICER'S REPLY

ITB227

(Question Serial No. 2058)

Head: (47) Government Secretariat : Office of the Government Chief Information Officer

Subhead (No. & title):

Programme: (2) IT Infrastructure and Standards

Controlling Officer: Government Chief Information Officer (Victor LAM)

Director of Bureau: Secretary for Innovation and Technology

Question:

It is mentioned in paragraph 79 of the Budget Speech that the Government will deploy \$500 million to implement the IT Innovation Lab in Secondary Schools Programme in the coming 3 school years. Will the Government inform of the following:

- (1) What are the details, including the concrete content, implementation timetable, the expenditure and manpower involved, of the IT Innovation Lab in Secondary Schools Programme taken forward by the Government in 2019-20?
- (2) What are the measures taken by the Government in implementing STEM education, as well as the details and expenditure of the projects to be implemented in 2019-20?

Asked by: Hon YUNG Hoi-yan (LegCo internal reference no.: 35)

Reply:

In consultation with the Education Bureau (EDB), the required information is provided as follows:

- (1) The Office of the Government Chief Information Officer (OGCIO) plans to launch the "IT Innovation Lab in Secondary Schools" initiative before the end of 2019, which will provide a maximum funding of \$1 million to each publicly-funded secondary school in Hong Kong in the 3 school years from 2019/20 to 2021/22 to procure information technology (IT) equipment and organise IT-related extra-curricular activities (ECA). Schools may draw up a proposal under the "IT Innovation Lab in Secondary Schools" initiative taking into account their actual situation and the needs of their students. The proposal should include IT equipment and professional services to be procured, relevant ECA to be organised and the funding required. OGCIO will be responsible for vetting and approving the applications, and disbursing the funding required accordingly each year.

OGCIO will issue application guidelines and reference list of IT equipment to schools, and set up a one-stop support centre to assist participating schools in setting up IT

Innovation Lab, including providing advice to schools on drawing up annual proposals, procuring IT equipment/professional services and organising relevant ECA. Schools will be required to submit an annual report to OGCI0 on the expenditure for and usage of the procured equipment and services.

OGCI0 will create 7 time-limited civil service posts. The estimated expenditure for 2019-20 is about \$11.6 million.

- (2) For primary and secondary schools, STEM education is implemented through the curricula of Science, Technology and Mathematics Education Key Learning Areas (KLAs). EDB released the Report on “Promotion of STEM Education – Unleashing Potential in Innovation” in 2016. The recommended measures set out in the Report have been implemented progressively. In the 2017/18 school year, EDB renewed the curricula of Science, Technology and Mathematics Education Key Learning Areas, and published the “Computational Thinking – Coding Education: Supplement to the Primary Curriculum”. EDB has all along been organising professional development programmes for teachers and developing learning and teaching resources for schools’ deployment. Starting from the 2017/18 school year, EDB has been conducting the Intensive Training Programme (ITP) on STEM Education in 5 batches for curriculum leaders of all public sector and Direct Subsidy Scheme (DSS) primary and secondary schools to further enhance their professional capacity in holistic curriculum planning and leading the teaching force. At the same time, EDB has been organising professional training programmes for teachers on coding education and on themes related to technology application to support schools in promoting STEM education. By end-February 2019, the first 3 batches of the ITP on STEM Education as well as the training courses on coding education have been completed. The fourth batch of the training programmes will commence in the second term of the 2018/19 school year. In October 2017, the STEM Education Centre was set up at the Arts and Technology Education Centre in Lok Fu. The Centre continuously provides STEM education related learning activities and training programmes as well as other support services for students and teachers. EDB has been strengthening various professional exchange platforms and establishing STEM-related learning communities among schools. For example, the Quality Education Fund Thematic Networks have been established to facilitate the sharing of good practices and promote professional exchange among teachers. Regarding student activities, EDB has organised a number of large-scale STEM-related events and competitions in collaboration with tertiary institutions, other government departments and professional bodies. The Smart City Project Programme, for example, was held in the 2017/18 school year and again this year to create an atmosphere for learning science and technology and provide opportunities for students to unleash their potential. EDB will continue to collaborate with different bodies and organisations to organise more quality, large-scale activities to enrich students’ learning experiences. The expenditure for the above support measures is subsumed under the overall expenditure of EDB, and a breakdown of the expenditure in this regard is not available.

It is proposed in the 2018 Policy Address that a new recurrent Life-wide Learning Grant with an annual provision of \$900 million will be provided to public sector and DSS schools starting from the 2019/20 school year, to support schools to take forward life-wide learning with enhanced efforts, including STEM-related learning activities.

Schools can use the resources to tie in with STEM education by organising enlivened and enriched experiential learning activities to provide students with more opportunities to apply what they have learned, thus enhancing their learning effectiveness.

- End -

CONTROLLING OFFICER'S REPLY

ITB228

(Question Serial No. 0613)

Head: (111) Innovation and Technology Fund: Innovation and Technology

Subhead (No. & title):

Programme: Not Specified

Controlling Officer: Commissioner for Innovation and Technology (Ms Annie CHOI)

Director of Bureau: Secretary for Innovation and Technology

Question:

The Government has planned to inject \$2 billion into the Innovation and Technology Fund for launching a Re-industrialisation Funding Scheme to subsidise manufacturers on a matching basis to help them set up smart production lines in Hong Kong.

What are the application procedures and matching basis of the Scheme? What are the detailed arrangements, such as whether it will be time-limited in nature or will a funding ceiling be set? Has the Government anticipated which industries will be attracted to apply for the Scheme?

Asked by: Hon WONG Ting-kwong (LegCo internal reference no.: 6)

Reply:

The Government plans to inject \$2 billion into the Innovation and Technology Fund for launching a Re-industrialisation Funding Scheme (the Scheme) to subsidise manufacturers on a matching basis to set up smart production lines in Hong Kong, with a view to expediting the realisation of "re-industrialisation". We are formulating the operational details of the Scheme, including the eligibility criteria, the funding scope, mode and amount, as well as the vetting mechanism, etc. in consultation with the industries. We will consult the Legislative Council (LegCo) Panel on Commerce and Industry on the Scheme in May 2019 before seeking funding approval from the LegCo Finance Committee, with an aim to launch the Scheme in the second half of this year.

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