For discussion
on 14 November 2016

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Legislative Council Panel on
Information Technology and Broadcasting

Capital Works Reserve Fund Head 710 Computerisation
Subhead A007GX (Block Allocation) –
New Administrative Computer Systems

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Introduction

      This paper seeks Members' support for the funding requirement for 2017-18 for implementation of computerisation projects under the Capital Works Reserve Fund ("CWRF") Head 710 Computerisation Subhead A007GX (Block Allocation) – New Administrative Computer Systems.

Background

2.   The sources of funding and approving authority of computerisation projects can be broadly classified as follows -

    (a) CWRF Head 710 Computerisation

        This is the Head of Expenditure used for funding administrative computer systems and related studies. The primary aim of these projects is to deliver the strategic outcome of the action area "Enabling the next generation of public services" under the Digital 21 Strategy. The expenditure approval mechanism is as follows -

      (i) *Projects costing above $10 million each* – these projects are subject to the approval of the Finance Committee ("FC") of the Legislative Council and are to be funded under separate subheads of CWRF Head 710. The subject bureaux/ departments ("B/Ds"), as the project

owners of these major computerisation projects, are responsible for submitting funding proposals to the FC and monitoring project delivery.

(ii) *Projects costing above $200,000 but not exceeding $10 million each* – these projects are funded through a block allocation under CWRF Head 710 Subhead A007GX ("Block Allocation"). The Financial Secretary has delegated to the Government Chief Information Officer ("GCIO") the power to approve projects and authorise expenditure under the Block Allocation. Projects funded this way are normally called block vote projects.

(b) General Revenue Account

Projects costing $200,000 or below each – these projects are approved by the relevant B/Ds and funded through their respective operational expenses subheads under the General Revenue Account.

CWRF Block Allocation

3. The proposed Block Allocation for a given financial year will fund the estimated cash flow requirements arising from projects proposed by B/Ds and approved or to-be approved by GCIO. In proposing new projects, B/Ds are required to observe the following guiding principles -

(a) Support the implementation of e-Government strategies in messaging and using information and communications technology ("ICT");

(b) integrate e-Government into their overall business plans to derive more business benefits and as a fundamental part of their service delivery approach;

(c) embrace a citizen-centric culture and adopt customer relationship management principles and best practices in the delivery of public services;

(d) build in service transformation and business process

re-engineering in all organisation/ business reviews;

(e) proactively identify opportunities for joining up services across departmental boundaries, take ownership of these projects and account for their performance/ benefits; and

(f) rationalise service delivery channels and encourage customers to migrate to the most efficient, user-friendly and cost-effective channels.

4.	Each year, the Office of the Government Chief Information Officer ("OGCIO") estimates the funding requirements for the Block Allocation in the following financial year by taking into consideration the cash flow requirements of approved block vote projects, new proposals submitted by B/Ds and anticipated new projects for various e-Government initiatives to be submitted, as well as the spending position of the Block Allocation. To ensure optimal utilisation of the Block Allocation, OGCIO will require owners of individual projects to review the project schedule based on the latest project progress on a half-yearly or quarterly basis, in order to calculate realistic cash flow requirements. This arrangement will avoid unnecessary locking up of funds by individual projects and enable OGCIO to deploy funds to meet the requirements of other urgent or high priority projects.

5.	OGCIO will also monitor and manage the use of the approved funds to ensure due adherence to prevailing government policies and relevant legislation, and the proper delivery of the desired outcomes. To ensure that the Government's investment can attain its intended objectives in a timely and cost-effective manner, B/Ds have to submit to OGCIO a Post Implementation Departmental Return ("PIDR"), setting out the achievements made or the reasons for any deviation from the original objectives, budget or schedule of the project, within six months after the live-run of a system or completion of a study/ programme. The aggregated result of PIDRs is published in the Controlling Officer's Report of OGCIO as government-wide performance indicators. In 2015, the summarised project performance reported in 159 PIDRs is as follows -

Performance indicators	No. of PIDRs		Percentage achieved
	with target achieved	with deviation	
Completed within budget	159	0	100.0%
Met agreed specifications	156	3	98.1%
Completed on schedule	100	59	62.9% (note)
Achieved intended benefits	155	4	97.5%

Note: For projects not completed on schedule, the main causes of delay are longer than expected time to conduct user requirement studies, system design and procurement, as well as quality of contractors' deliverables not meeting requirements.

Funding Requirement for 2017 -18

6.   Taking into account the proposals submitted by B/Ds and our forecast of other projects to be initiated in the coming financial year, we estimate that a Block Allocation of **$990 million** will be required under CWRF Head 710 Subhead A007GX for 2017-18, which is the same as the provision for 2016-17.   A breakdown of the expenditure items for 2016-17 and 2017-18 is at **Annex A.**   The proposed Block Allocation will enable the Government to make effective use of information technology to improve services and operational efficiency, as well as to strengthen system security.

7.   The estimated cash flow requirements of projects initiated / to be initiated in or before 2016-17, as well as new projects to be initiated in 2017-18, are at **Annex B.**   The new projects to be funded from the Block Allocation can be broadly classified into the following categories –

(a) <u>Electronic public services</u>

The Government is committed to speeding up the pace and rate of adoption of IT to enhance the delivery of public services and transform internal operation, in order to meet the rising public expectation for better services, bring more convenience and better quality of life to the community, and facilitate the development of a digital city.   In recent years, a number of online services have been launched by government departments.   Some well-known examples include the online services of Hong Kong Public Libraries (Leisure and Cultural Services Department), the Interactive Employment Service (Labour Department), eTAX (Inland Revenue Department) and various online services of the Immigration Department and the Transport Department.   These electronic services enhance user experience and internal operation efficiency by saving the manual effort for data entry and validation.   Examples of new projects are -

(i)   Self-financing Post-secondary Scholarship Scheme Electronic Application System (Education Bureau);

(ii)   e-Services for Permit (Road Use) Application System (Transport Department); and

(iii)   Enhancement of e-Platform System to Support Administration of Lifts and Escalators Ordinance (Electrical and Mechanical Services Department).

(b) <u>Public sector information, big data and mobile applications</u>

With the advancement of ICT, more and more application developers are making use of public sector data and information to develop innovative applications.   The Government will continue to release free data and information in digital formats and will develop more application programming interfaces to facilitate their re-use.   In doing so, we aim to promote innovation, open up new business opportunities, and bring greater convenience to the public. Moreover, the Government will make use of the mobile technology and big data analytics to facilitate the public to access government

information and services, and enhance public services through better planning by B/Ds.   Examples of new projects are -

(i)   Pilot Cloud Development Platform for Big Data Analytics Model (OGCIO);

(ii)   Mobile Application for Electronic Navigational Charts (Marine Department); and

(iii)   Pilot Project for Dissemination of Spatial Enabled Public Sector Information – Hong Kong GeoHub (Lands Department).

(c)   Enhancing internal operational efficiency

Apart from the provision of public services, B/Ds have also developed and implemented various computer systems to enhance internal operational efficiency and productivity, achieve a greener environment, and handle growth in business demands.   Examples of new projects are -

(i)   Revamp of Minor Works Management System (Buildings Department);

(ii)   Implementation of Laboratory Information System for Non-Clinical Microbiology Laboratory (Department of Health); and

(iii)   Enhancement of Client Information System for Central Referral of Rehabilitation Services – Disabled Pre-schoolers Sub-system and Child Protection Registry (Social Welfare Department).

(d)   System technology refresh

System technology refresh is an on-going process to address the obsolescence of system hardware and software, as well as to leverage the new features/ functionality of advanced technology.

Mission-critical IT systems will need to be timely replaced or upgraded to ensure sustainability for service delivery. The Government will adopt cloud computing to enhance agility and efficiency in meeting the growing demand of B/Ds on IT resources. Examples of new projects are -

(i) Technology Refresh for Electronic Document Management Sub-system of Customer Care and Billing System (Water Supplies Department);

(ii) Technology Refresh for Property Stamping System (Inland Revenue Department); and

(iii) Technology Refresh for Minor Employment Claims Integrated Processing System (Labour Department).

(e) <u>Strengthening IT security</u>

In view of increasing use of e-Government services by the public, B/Ds have put much emphasis on the security of their IT systems and data. Regular security risk assessments and audits on IT systems are conducted for compliance with IT security policies and effective implementation of preventive measures against security threats and cyber attacks on Government's IT systems. Examples of new projects are -

(i) IT Security Audit for Office Automation System and Hong Kong Accreditation Service System (Innovation and Technology Commission);

(ii) Enhancement of IT Security (Correctional Services Department); and

(iii) Upgrade of Server Security Solution (Architectural Services Department).

A full list of the 160 new projects to be initiated in 2017-18 is at **Annex C.**

Submission of Funding Application to FC

8.	Funding approval for all CWRF block allocations (including the Subhead A007GX (Block Allocation)) will be sought from FC (tentatively in January 2017), after consultation with the Public Works Subcommittee (tentatively in December 2016).

Advice Sought

9.	Members are invited to support the proposed Block Allocation for CWRF Head 710 Subhead A007GX in 2017-18.

Innovation and Technology Bureau
Office of the Government Chief Information Officer
November 2016

**Breakdown of the expenditure items in 2016-17 and 2017-18
for the Block Allocation**

Category of Expenditure	2017-18 Proposed Block Allocation ($M)	2016-17 Approved Block Allocation ($M)	Difference ($M)	Percentage of Difference (%)
1. Hardware	202	204	-2	-1.0
2. Software	151	153	-2	-1.3
3. Implementation Services	363	359	4	+1.1
4. Contract Staff	161	161	0	0
5. Contingency	66	66	0	0
6. Others	47	47	0	0
Total:	**990**	**990**	**0**	**0**

**Tentative cash flow requirements of
the projects to be funded
under the proposed Block Allocation in 2017-18**

	No. of projects	Tentative cash flow requirements in 2017-18 ($M)
Projects initiated/ to be initiated in or before 2016-17	**543**	**811**
New projects to be initiated in 2017-18	**160**	**179**
Total :	**703**	**990**

Annex C

New projects to be initiated in 2017-18

Item no.	Project name	Project estimate ($M)	Planned start date in 2017-18	Planned end date
	Administration Wing			
1	Upgrade of Network Equipment and Replacement of Office Automation Facilities	4.8	Q1	Q3/2019-20
2	Upgrade of Wi-Fi System, Administration's Accommodation Network and Paperless Meeting Facilities	6.0	Q2	Q1/2019-20
	Agriculture, Fisheries and Conservation Department			
3	Replacement of Office Automation Facilities and Enhancement of Network System	9.7	Q2	Q2/2018-19
	Architectural Services Department			
4	Upgrade of Server Security Solution	3.0	Q1	Q4/2017-18
5	Platform Upgrade of Systematic Risk Management System	1.5	Q1	Q1/2018-19
6	Replacement of Office Automation Facilities	3.1	Q1	Q2/2018-19
7	Platform Upgrade of Content Management and Publishing System	1.5	Q1	Q3/2018-19
8	Revamp of Property Services Management and Accounting System	9.2	Q3	Q1/2019-20
	Audit Commission			
9	Upgrade of Email System and IT Infrastructure	4.2	Q1	Q3/2018-19
	Buildings Department			
10	Electronic Forms Submission System (Phase 2)	9.8	Q1	Q2/2018-19

Note: Q1, Q2, Q3 and Q4 refer to the four quarters of a financial year, i.e., April - June, July - September, October - December and January - March respectively.

Item no.	Project name	Project estimate ($M)	Planned start date in 2017-18	Planned end date
11	Adoption of Radio Frequency Identification Technology in Bar-Coding File Management System (New Buildings Division and Building Information Centre)	4.9	Q1	Q3/2018-19
12	Upgrade of Server Operating System	9.8	Q2	Q2/2018-19
13	Revamp of Minor Works Management System	8.2	Q2	Q1/2019-20
	Census and Statistics Department			
14	Replacement of Office Automation Facilities	9.9	Q1	Q4/2017-18
15	Upgrade of Departmental Portal	2.1	Q1	Q1/2018-19
16	Feasibility Study for Computer Equipment and Services for 2021 Population Census	6.3	Q1	Q3/2018-19
17	Revamp of Web Content Management System and Enhancement of Departmental Website	6.9	Q1	Q1/2019-20
18	Development of Computer System for 2019-20 Household Expenditure Survey	9.9	Q1	Q3/2019-20
19	IT Security Risk Assessment and Audit	0.5	Q3	Q2/2018-19
	Civil Aviation Department			
20	Development of Electronic Rostering System (Air Traffic Control Service Staff)	8.0	Q2	Q3/2019-20
	Civil Engineering and Development Department			
21	Online Slope Registration and Management System	2.8	Q1	Q4/2018-19
22	Common Operating Platform for Emergency Management	9.7	Q2	Q2/2018-19
23	Migration of Raingauge System to Cloud Platform (Geotechnical Engineering Office)	6.0	Q2	Q3/2018-19
24	Upgrade of Server Operating System	8.8	Q2	Q2/2019-20

Note: Q1, Q2, Q3 and Q4 refer to the four quarters of a financial year, i.e., April - June, July - September, October - December and January - March respectively.

Item no.	Project name	Project estimate ($M)	Planned start date in 2017-18	Planned end date
	Civil Service Bureau			
25	Upgrade of Office Automation Software	5.0	Q1	Q4/2017-18
26	Departmental Information Technology Plan Study	3.9	Q1	Q1/2018-19
27	Upgrade of Basic Law Test Central Repository System	4.2	Q1	Q2/2018-19
28	Upgrade of Human Resources Information System (Executive Officer Grade)	3.5	Q1	Q3/2018-19
29	Upgrade of Human Resources Information System (Clerical & Secretarial Grades)	5.5	Q1	Q2/2019-20
	Commerce and Economic Development Bureau			
30	Enhancement of IT Security (Create Hong Kong)	2.2	Q1	Q4/2017-18
31	IT Security Risk Assessment and Audit (Commerce, Industry and Tourism Branch and Overseas Hong Kong Economic and Trade Offices)	2.0	Q2	Q3/2018-19
32	Upgrade of IT Security and Network Infrastructure (Commerce, Industry and Tourism Branch and Overseas Hong Kong Economic and Trade Offices)	4.3	Q2	Q4/2018-19
	Correctional Services Department			
33	Enhancement of IT Security	3.0	Q1	Q3/2017-18
34	Mobile Confidential Mail Service	0.6	Q2	Q2/2018-19
35	IT Security Risk Assessment and Audit	0.5	Q3	Q3/2018-19
	Customs and Excise Department			
36	Upgrade of Anti-virus System	2.1	Q1	Q1/2018-19
37	Upgrade of Departmental Portal	9.8	Q1	Q3/2018-19
38	IT Facilities for Liantang / Heung Yuen Wai Boundary Control Point	9.8	Q1	Q3/2018-19

Note: Q1, Q2, Q3 and Q4 refer to the four quarters of a financial year, i.e., April - June, July - September, October - December and January - March respectively.

Item no.	Project name	Project estimate ($M)	Planned start date in 2017-18	Planned end date
39	Information Systems Strategy Study	9.9	Q1	Q4/2018-19
40	Development of Operational Deployment and Leave Management System	5.3	Q3	Q3/2018-19
41	Replacement of Office Automation Facilities	9.7	Q3	Q2/2019-20
42	IT Facilities for Customs Control at Tuen Mun Customs Marine Base	1.0	Q4	Q3/2018-19
	Department of Health			
43	Replacement of Network Equipment of Public Health Laboratory Centre	1.4	Q1	Q2/2017-18
44	Replacement of Network Equipment of Methadone Treatment Information System	1.5	Q1	Q4/2017-18
45	Implementation of Laboratory Information System for Non-Clinical Microbiology Laboratory	3.3	Q1	Q1/2018-19
46	IT Facilities for Yau Ma Tei Special Medical Clinic to Access Special Preventive Programme Clinical Information Management System	2.1	Q1	Q3/2018-19
47	IT Security Risk Assessment and Audit for Student Health Service Information System	0.4	Q2	Q2/2018-19
	Department of Justice			
48	Replacement of Integrated Library System	9.9	Q3	Q2/2020-21
	Development Bureau			
49	IT Security Risk Assessment and Audit	0.6	Q1	Q4/2017-18
50	Common Operating Platform with Geographic Information System Capability for Management and Sharing of Tree-related Information	6.1	Q1	Q1/2018-19
51	Strengthening Information Security Management (Works Branch)	8.0	Q1	Q2/2018-19

Note: Q1, Q2, Q3 and Q4 refer to the four quarters of a financial year, i.e., April - June, July - September, October - December and January - March respectively.

Item no.	Project name	Project estimate ($M)	Planned start date in 2017-18	Planned end date
52	Strengthening Information Security Management and Replacement of Office Automation Facilities (Planning and Lands Branch)	2.4	Q2	Q2/2018-19
53	Replacement of Consultants' Performance Information System	6.6	Q3	Q4/2018-19
	Education Bureau			
54	Confidential Messaging Application and Mobile Confidential Mail Service	8.3	Q1	Q1/2018-19
55	Expertise Database for Inspectorate and Curriculum Officer Grade Officers	1.1	Q1	Q2/2018-19
56	Enhancement of Training Calendar System and Training Administration System	3.2	Q1	Q2/2018-19
57	Self-financing Post-secondary Scholarship Scheme Electronic Application System	5.5	Q1	Q3/2018-19
58	Upgrade of Network Infrastructure	9.5	Q1	Q4/2018-19
59	Upgrade of Departmental Portal	2.5	Q1	Q4/2018-19
	Efficiency Unit			
60	Revamp of Enterprise Information Management System	9.5	Q1	Q2/2018-19
61	Revamp of Departmental Websites	9.5	Q2	Q2/2018-19
	Electrical and Mechanical Services Department			
62	Data Management System for Mandatory Energy Efficiency Labelling Scheme (Phase 3)	2.9	Q1	Q3/2017-18
63	Enhancement of e-Platform System to Support Administration of Lifts and Escalators Ordinance	1.6	Q1	Q4/2017-18
	Environmental Protection Department			
64	Development of Air Quality Forecasting Information and Data Analysis System	9.5	Q1	Q1/2020-21

Note: Q1, Q2, Q3 and Q4 refer to the four quarters of a financial year, i.e., April - June, July - September, October - December and January - March respectively.

Item no.	Project name	Project estimate ($M)	Planned start date in 2017-18	Planned end date
	Financial Services and the Treasury Bureau			
65	Confidential Messaging Application and Mobile Confidential Mail Service (The Treasury Branch)	2.4	Q1	Q1/2018-19
66	Strengthening Information Security Management (The Treasury Branch)	2.3	Q1	Q2/2018-19
67	Upgrade of Annual Estimates Production System (General Revenue Account Expenditure)	6.2	Q3	Q2/2019-20
	Food and Environmental Hygiene Department			
68	Departmental Information Technology Plan Study	7.7	Q1	Q1/2018-19
69	Upgrade and Migration of Food Import Control System to Departmental Data Centre to Support Trade Single Window	8.1	Q1	Q2/2018-19
70	Replacement of Office Automation Facilities	8.8	Q1	Q2/2018-19
	Government Laboratory			
71	IT Security Risk Assessment and Audit	0.6	Q1	Q4/2018-19
	Government Property Agency			
72	Enhancement of Disaster Recovery Solution	3.6	Q3	Q3/2018-19
	Highways Department			
73	IT Security Risk Assessment and Audit	1.0	Q1	Q4/2017-18
74	Inventory Control System	3.2	Q1	Q2/2019-20
75	Revamp of Maintenance Accounting and Information System	3.4	Q1	Q3/2019-20
	Home Affairs Bureau			
76	Upgrade of Office Automation System	6.9	Q1	Q2/2018-19
77	Revamp of Departmental IT Network System	7.9	Q1	Q4/2018-19

Note: Q1, Q2, Q3 and Q4 refer to the four quarters of a financial year, i.e., April - June, July - September, October - December and January - March respectively.

Item no.	Project name	Project estimate ($M)	Planned start date in 2017-18	Planned end date
78	Upgrade of Email System	4.3	Q1	Q4/2018-19
	Home Affairs Department			
79	Development of Web-based Facilities Management System (Stage 2)	6.8	Q1	Q4/2018-19
	Hong Kong Observatory			
80	Enhancement of Rainstorm and Thunderstorm Warning System	3.5	Q1	Q1/2018-19
81	Departmental Information Technology Plan Study	6.3	Q1	Q3/2018-19
82	Revamp of Departmental Website and Enhancement of Online Information Dissemination Service	9.1	Q1	Q4/2018-19
83	Automatic Global City Weather Forecast System	3.5	Q1	Q4/2018-19
84	Enhancement of Digital Weather Forecast System	0.9	Q1	Q4/2018-19
	Housing Department			
85	Independent Checking Unit Site Inspection System	2.2	Q1	Q3/2018-19
	Immigration Department			
86	IT Security Risk Assessment and Audit	1.6	Q1	Q2/2019-20
	Inland Revenue Department			
87	Upgrade of Network Infrastructure	6.3	Q2	Q2/2018-19
88	Upgrade of Network Server and e-Fax System	9.9	Q2	Q4/2018-19
89	Technology Refresh for Property Stamping System	8.6	Q2	Q4/2018-19
90	Upgrade of Statistical Analysis and Query System and Strategic Planning Support System	7.0	Q3	Q4/2018-19
91	Departmental Information Technology Plan Study	9.2	Q3	Q4/2018-19

Note: Q1, Q2, Q3 and Q4 refer to the four quarters of a financial year, i.e., April - June, July - September, October - December and January - March respectively.

Item no.	Project name	Project estimate ($M)	Planned start date in 2017-18	Planned end date
92	Consolidation of Midrange Printing System into Enterprise Printing System	9.0	Q3	Q2/2019-20
	Innovation and Technology Commission			
93	IT Security Audit for Office Automation System and Hong Kong Accreditation Service System	3.1	Q1	Q2/2018-19
	Intellectual Property Department			
94	Replacement of Office Automation Facilities	4.7	Q2	Q2/2018-19
	Invest Hong Kong			
95	IT Security Risk Assessment and Audit	0.3	Q1	Q2/2017-18
96	Upgrade of Email System	0.6	Q2	Q4/2017-18
	Labour and Welfare Bureau			
97	Strengthening Information Security Management and Upgrade of IT Facilities	6.0	Q1	Q3/2018-19
	Labour Department			
98	Technology Refresh for Minor Employment Claims Integrated Processing System	6.6	Q1	Q1/2019-20
99	Replacement of Vacancy Search Terminals	8.1	Q2	Q1/2019-20
100	Technology Refresh for Employment Claims Investigation Information System	3.5	Q3	Q1/2019-20
	Lands Department			
101	IT Security Risk Assessment and Audit	2.9	Q1	Q4/2018-19
102	Provision of 3D Textured Mesh Models of Hong Kong	9.6	Q2	Q1/2018-19
103	Pilot Project for Dissemination of Spatial Enabled Public Sector Information – Hong Kong GeoHub	8.9	Q2	Q4/2018-19

Note: Q1, Q2, Q3 and Q4 refer to the four quarters of a financial year, i.e., April - June, July - September, October - December and January - March respectively.

Item no.	Project name	Project estimate ($M)	Planned start date in 2017-18	Planned end date
104	Upgrade of IT Infrastructure at Tsuen Wan Government Offices	4.9	Q2	Q1/2019-20
105	Revamp of Survey Data Processing System	9.7	Q2	Q2/2019-20
106	Upgrade of Land Information System Infrastructure	9.9	Q2	Q2/2019-20
	Legal Aid Department			
107	Upgrade of Office Application Software	2.0	Q1	Q3/2017-18
108	Upgrade of Departmental Portal	2.4	Q1	Q1/2018-19
	Leisure and Cultural Services Department			
109	Staff Attendance Management System for Public Swimming Pools	8.5	Q1	Q1/2019-20
	Marine Department			
110	Mobile Application for Electronic Navigational Charts	3.4	Q1	Q1/2018-19
111	Upgrade of Flag State Quality Control Management Information System	6.0	Q2	Q3/2018-19
112	Implementation of Collaborative Workspace and Knowledge Management Portal	9.9	Q2	Q1/2020-21
	Office for Film, Newspaper and Article Administration			
113	Replacement of Film Censorship Database Management System	5.1	Q1	Q4/2019-20
	Office of the Government Chief Information Officer			
114	Map-based Data Visualisation and Extraction Features in Public Sector Information Portal	4.3	Q1	Q4/2017-18
115	Enhancement of Confidential Messaging Application and Mobile Confidential Mail Service	7.3	Q1	Q3/2018-19

Note: Q1, Q2, Q3 and Q4 refer to the four quarters of a financial year, i.e., April - June, July - September, October - December and January - March respectively.

Item no.	Project name	Project estimate ($M)	Planned start date in 2017-18	Planned end date
116	Enhancement of Central Cyber Government Office Network Infrastructure	7.2	Q1	Q3/2018-19
117	Upgrade of Departmental Portal	5.9	Q1	Q3/2018-19
118	Pilot Cloud Development Platform for Big Data Analytics Model	5.2	Q1	Q4/2019-20
119	Replacement of Network Telephone Communication System at Cyberport Office	4.2	Q2	Q2/2018-19
120	Implementation of Common System Monitoring Platform	8.8	Q2	Q2/2018-19
121	Technical Study on Operation Support Systems at Government Data Centre Complex	6.5	Q2	Q4/2019-20
	Official Receiver's Office			
122	Revamp of Insolvency Estate Funds and Accounting System	9.9	Q1	Q4/2018-19
	Planning Department			
123	Mobile Integrated Site Survey Information System	8.7	Q1	Q1/2019-20
124	Upgrade of Departmental Portal and IT Infrastructure	7.9	Q2	Q3/2019-20
	Public Service Commission			
125	Confidential Messaging Application and Upgrade of Office Automation Software	0.3	Q1	Q2/2017-18
	Radio Television Hong Kong			
126	Departmental Information Technology Plan Study	2.3	Q1	Q3/2017-18
127	Enhancement of CyberThreat Protection and IT Infrastructure Security	1.5	Q1	Q4/2017-18
128	Replacement of Resource and Cost Management System	8.3	Q3	Q2/2019-20

Note: Q1, Q2, Q3 and Q4 refer to the four quarters of a financial year, i.e., April - June, July - September, October - December and January - March respectively.

Item no.	Project name	Project estimate ($M)	Planned start date in 2017-18	Planned end date
	Rating and Valuation Department			
129	Upgrade of Departmental Portal	0.9	Q1	Q1/2018-19
130	IT Security Risk Assessment and Audit	0.8	Q2	Q2/2018-19
131	Upgrade of Network Infrastructure	7.1	Q2	Q3/2018-19
	Registration and Electoral Office			
132	Confidential Messaging Application and Mobile Confidential Mail Service	3.8	Q1	Q2/2018-19
133	Upgrade of Departmental Portal	1.0	Q1	Q2/2018-19
134	Upgrade of Reporting System	3.5	Q1	Q4/2018-19
135	Payroll, Leave and Personnel Management Information System for Non-civil Service Contract Staff	7.7	Q1	Q1/2019-20
136	IT Security Risk Assessment and Audit	0.8	Q3	Q3/2018-19
	Security Bureau			
137	Strengthening Government IT Security Management	1.6	Q1	Q4/2017-18
	Social Welfare Department			
138	Enhancement of Client Information System for Central Referral of Rehabilitation Services – Disabled Pre-schoolers Sub-system and Child Protection Registry	4.9	Q1	Q2/2018-19
139	Departmental Information Technology Plan Study	7.5	Q3	Q4/2018-19
	The Treasury			
140	Upgrade of Virtualised Infrastructure	9.9	Q1	Q4/2018-19
141	Upgrade of Payroll System and Central Payroll Related Database System	9.9	Q1	Q1/2019-20
142	Consultancy Study on Strategic Way Forward for Government Financial Management Information System	5.0	Q2	Q1/2018-19
143	Upgrade of Pension Management System	9.6	Q2	Q3/2018-19

Note: Q1, Q2, Q3 and Q4 refer to the four quarters of a financial year, i.e., April - June, July - September, October - December and January - March respectively.

Item no.	Project name	Project estimate ($M)	Planned start date in 2017-18	Planned end date
	Trade and Industry Department			
144	Upgrade of Network Infrastructure (Disaster Recovery Site)	1.4	Q1	Q3/2017-18
145	Upgrade of IT System Software	3.6	Q1	Q4/2018-19
146	IT Security Risk Assessment and Audit	1.4	Q4	Q4/2018-19
	Transport and Housing Bureau			
147	Upgrade of Transport Complaints Management System	2.1	Q2	Q2/2018-19
	Transport Department			
148	IT Security Risk Assessment and Audit	0.8	Q1	Q3/2017-18
149	Online Booking System for Type Approval and Pre-registration Vehicle Inspection	6.5	Q1	Q2/2018-19
150	Upgrade of Lantau Permit Information System	5.3	Q1	Q4/2018-19
151	Relocation of IT Facilities to West Kowloon Government Offices	9.3	Q1	Q3/2019-20
152	Enhancement of Network Security and Infrastructure	0.9	Q2	Q1/2018-19
153	e-Services for Permit (Road Use) Application System	5.8	Q2	Q3/2018-19
154	Upgrade of Computerised Written Test System II	6.8	Q2	Q4/2018-19
155	Upgrade of e-Application for Ad Hoc Quotas for Cross Boundary Private Cars and Lantau Closed Road Permit	9.4	Q2	Q1/2019-20
156	Vehicle Examination Staff Assessment System	4.3	Q3	Q1/2019-20
	Water Supplies Department			
157	Feasibility Study on Integration of Maintenance Works Management System and Data Infrastructure Portal with Future Asset Management Information System	3.9	Q1	Q2/2018-19

Note: Q1, Q2, Q3 and Q4 refer to the four quarters of a financial year, i.e., April - June, July - September, October - December and January - March respectively.

Item no.	Project name	Project estimate ($M)	Planned start date in 2017-18	Planned end date
158	Network Infrastructure for New Territories West Regional Office in Tin Shui Wai and Study on Network Security and Infrastructure for Relocation of Headquarters	4.0	Q1	Q2/2018-19
159	Technology Refresh for Electronic Document Management Sub-system of Customer Care and Billing System	6.5	Q1	Q3/2018-19
160	Revamp of Departmental Mobile App	3.8	Q1	Q3/2018-19

Note: Q1, Q2, Q3 and Q4 refer to the four quarters of a financial year, i.e., April - June, July - September, October - December and January - March respectively.