

Ref : TF/22/0 C Pt.6

Tel : 2810 2758

18 May 2017

Mr Desmond Lam
Clerk to Panel
Legislative Council Panel on Commerce and Industry
Legislative Council Complex
1 Legislative Council Road
Central
Hong Kong

Dear Mr Lam,

**Information Requested
at the Meeting of the Panel on Commerce and Industry
on 20 December 2016**

At the meeting of the Panel on Commerce and Industry on 20 December 2016, Members requested the Government to further provide information on the Technology Start-up Support Scheme for Universities (TSSSU). Having consulted the relevant universities, we would like to provide the required information as follows –

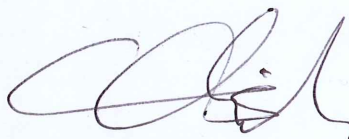
- (a) The application statistics of TSSSU since its launch in 2014-15, including the number of applications approved and rejected, amount of funding approved for each application and name of the TSSSU-funded start-ups, are tabulated at Annex A;
- (b) The details of the products/services rolled out in the market by the 65 start-ups as mentioned in Annex B to the Discussion Paper LC Paper No. CB(1)311/16-17(07) are set out at Annex B; and

- (c) Since the inception of TSSSU in 2014-15, a total of 505 applications were received, of which 169 were approved. As for the remaining 336 applications which were not funded by TSSSU, the universities were not aware of the status of their research and development (R&D) or commercialisation.

In addition, we have, in response to Members' suggestion made at the meeting, set up a TSSSU Directory on the homepage of TSSSU at http://www.itf.gov.hk/1-eng/TSSSU_directory.asp. This Directory provides, amongst other things, an overview of the TSSSU-funded start-ups with information on their business scope and contact details, etc. We hope the Directory will help start-ups connect with potential investors and facilitate their development.

We would like to express our gratitude to Members again for their comments. We have already started a new round of discussions with universities to identify ways to further enhance TSSSU, so as to continue supporting university teams to start technology businesses and commercialise their R&D results, and to add fresh impetus to the innovation and technology ecosystem in Hong Kong.

Yours sincerely,



(Ms Zorina Wan)

for Commissioner for Innovation and Technology

c.c. Secretary for Innovation and Technology
(Attn: Mr Ricky Chong)

Technology Start-up Support Scheme for Universities (TSSSU)

Table 1: Approved Applications

Start-up		Amount of Funding Approved			
		2014-15	2015-16	2016-17	Total
The University of Hong Kong (HKU)					
1	Accosys Limited	-	\$600,000	\$150,000	\$750,000
2	Appedu (Holding) Limited	\$150,000	\$150,000	-	\$300,000
3	CISC Limited	-	-	\$500,000	\$500,000
4	Comma Technology Limited	\$300,000	\$100,000	\$100,000	\$500,000
5	Conzeb Limited	-	-	\$500,000	\$500,000
6	EN Technology Limited	-	-	\$500,000	\$500,000
7	Eonzen Technology Company Limited	-	-	\$250,000	\$250,000
8	Flectrode Technology Limited	-	-	\$250,000	\$250,000
9	Hactis Limited	-	-	\$350,000	\$350,000
10	Hong Kong Unific Publishing Limited	\$450,000	\$200,000	-	\$650,000
11	Immuno Cure Limited (Great Super Limited)	-	\$800,000	-	\$800,000
12	ImmunoDiagnostics Limited	-	-	\$500,000	\$500,000
13	Living Tissues Company Limited	\$820,000	\$600,000	\$300,000	\$1,720,000
14	Movabar Limited	-	-	\$100,000	\$100,000
15	Novoheart Limited	\$750,000	\$400,000	-	\$1,150,000
16	OncoSeek Limited	\$650,000	\$300,000	-	\$950,000
17	OrthoSmart Limited	\$677,500	\$400,000	-	\$1,077,500
18	Passber Limited	\$200,000	\$200,000	-	\$400,000
19	Printact Limited	-	\$250,000	\$100,000	\$350,000
20	SkinData Limited	-	-	\$400,000	\$400,000
The Chinese University of Hong Kong (CUHK)					
21	Accukit Technology Limited	-	-	\$400,000	\$400,000
22	ACE VR Limited	-	-	\$100,000	\$100,000
23	Atspin Limited	\$505,997	-	-	\$505,997

Start-up		Amount of Funding Approved			
		2014-15	2015-16	2016-17	Total
24	BrainNow Medical Technology Limited	-	\$300,000	\$100,000	\$400,000
25	C4Cat Entertainment Limited ⁺⁺	-	\$300,000	\$200,000	\$500,000
26	Codex Genetics Limited	\$500,000	\$300,000	\$200,000	\$1,000,000
27	CUREhab Limited	-	-	\$400,000	\$400,000
28	CuttingEdge MedTech Limited	-	\$300,000	\$100,000	\$400,000
29	DecaSense Technology Limited	-	-	\$400,000	\$400,000
30	DG Care Limited	-	-	\$300,000	\$300,000
31	Edvant Company Limited	-	\$100,000	-	\$100,000
32	GEMVCare Limited	\$494,800	\$340,000	-	\$834,800
33	Hawkeyes Solutions Limited	-	-	\$300,000	\$300,000
34	Health View Bioanalytic Limited	-	\$300,000	\$100,000	\$400,000
35	HippoTuring Technologies Company Limited	\$504,954	\$300,000	-	\$804,954
36	HSK GeneTech Limited	\$507,255	\$300,000	-	\$807,255
37	HyperLab Limited	\$490,167	-	-	\$490,167
38	Lione Limited	-	\$100,000	-	\$100,000
39	Opinion Network Limited	-	-	\$300,000	\$300,000
40	Precision Instrument and Optics Limited	\$500,000	\$432,000	\$100,000	\$1,032,000
41	RegCourse Limited	-	-	\$400,000	\$400,000
42	SicureLabs Company Limited	-	\$300,000	-	\$300,000
43	Stapworks Stem Cell Limited	-	\$300,000	\$100,000	\$400,000
44	Unitinno Architectural Technology Development Company Limited	-	-	\$400,000	\$400,000
45	VisionNav Robotics Limited	-	\$300,000	\$100,000	\$400,000
City University of Hong Kong (CityU)					
46	Air Button Technology Limited	-	\$167,207	\$770,000	\$937,207
47	Animae Technologies Limited	\$484,000	-	-	\$484,000

Start-up		Amount of Funding Approved			
		2014-15	2015-16	2016-17	Total
48	BeVoid Limited	-	\$249,600	-	\$249,600
49	C4Cat Entertainment Limited ⁺⁺	\$179,000	-	-	\$179,000
50	Cinme Tech Limited	\$720,000	\$514,482	-	\$1,234,482
51	Clothclip International Limited	\$600,000	-	-	\$600,000
52	GlobeXchange Co. Limited	\$389,000	-	-	\$389,000
53	Hands Life Science Limited	-	-	\$830,000	\$830,000
54	Hong Kong Bilingual Learning and Translation Studies Association Co. Limited	\$227,800	-	-	\$227,800
55	Jacky Instruments Limited	-	\$336,986	\$750,000	\$1,086,986
56	Kung Fu Motion Limited	\$600,000	\$509,337	\$350,000	\$1,459,337
57	MindLayer Limited	-	-	\$400,000	\$400,000
58	New System Technologies Limited	-	\$360,000	-	\$360,000
59	NoPhish Technology Limited	-	\$514,482	\$500,000	\$1,014,482
60	ProHub Limited	-	\$338,958	-	\$338,958
61	Spreadfast Interactive Limited	\$280,000	\$291,000	-	\$571,000
62	Teorema Limited	-	\$357,948	-	\$357,948
63	The Worldpath Limited	\$520,000	\$360,000	-	\$880,000
64	V&R Laboratory Limited	-	-	\$400,000	\$400,000
The Hong Kong University of Science and Technology (HKUST)					
65	Acoustic Metamaterials Company Limited	\$600,000	\$500,000	-	\$1,100,000
66	AIEgen Biotech Co., Limited	-	-	\$500,000	\$500,000
67	Ananflow Technology Limited	\$450,000	-	-	\$450,000
68	beNovelty Limited	-	-	\$200,000	\$200,000
69	CoilEasy Technologies Limited	-	-	\$500,000	\$500,000
70	Compathnion Technology Limited	-	-	\$400,000	\$400,000

Start-up		Amount of Funding Approved			
		2014-15	2015-16	2016-17	Total
71	DelTron Intelligence Technology Limited	-	-	\$500,000	\$500,000
72	eTron Electronic Materials (Hong Kong) Co. Limited	-	\$700,000	-	\$700,000
73	Everest Innovation Technology Limited	\$600,000	\$300,000	-	\$900,000
74	Free Flow Technology Limited	-	\$200,000	-	\$200,000
75	Hong Kong Innovative Display Technology Limited	\$400,000	\$200,000	-	\$600,000
76	iVo Technologies Company Limited	\$400,000	-	-	\$400,000
77	Jetcomm Technologies Limited	-	\$450,000	-	\$450,000
78	Mindvidid Limited	-	-	\$200,000	\$200,000
79	MultiMedia Big Data Analytics Ltd.	-	-	\$200,000	\$200,000
80	NanoBioImaging Limited	\$600,000	\$500,000	-	\$1,100,000
81	NovaMatrix Limited	-	-	\$500,000	\$500,000
82	Pear Limited	-	-	\$500,000	\$500,000
83	Seasafe Limited	-	-	\$500,000	\$500,000
84	Sonikure Technology Limited	-	\$700,000	-	\$700,000
85	Yfisoft Limited	\$450,000	\$450,000	-	\$900,000
Hong Kong Baptist University (HKBU)					
86	ANA Artwork Material Analysis Company Limited	\$450,000	\$1,080,000	\$960,000	\$2,490,000
87	Booguu Company Limited	-	-	\$800,000	\$800,000
88	Cathay Photonics Limited	\$1,000,000	\$1,080,000	\$1,160,000	\$3,240,000
89	Flow Imaging Technology Limited	\$1,000,000	-	-	\$1,000,000
90	OPER Technology Limited	\$1,100,000	\$1,100,000	\$1,080,000	\$3,280,000
91	R & P Technology Limited	\$450,000	\$740,000	-	\$1,190,000
The Hong Kong Polytechnic University (PolyU)					
92	Acoustics Innovation Limited	-	\$100,000	-	\$100,000
93	Advwhere Limited	-	\$100,000	-	\$100,000

Start-up		Amount of Funding Approved			
		2014-15	2015-16	2016-17	Total
94	AlikeAudience (Hong Kong) Limited	-	-	\$500,000	\$500,000
95	Alps Robot Limited	-	-	\$100,000	\$100,000
96	Amazing Trace Technologies Limited	-	\$100,000	-	\$100,000
97	Cognix Limited	-	\$100,000	-	\$100,000
98	Control Free Limited	-	\$100,000	-	\$100,000
99	Creazine Limited	-	\$100,000	-	\$100,000
100	dEYEy Inno Tech Limited	-	-	\$100,000	\$100,000
101	Dr Coach Education Technology Limited	-	\$100,000	-	\$100,000
102	Hocfu Technology Limited	-	-	\$500,000	\$500,000
103	Holumino Limited	-	\$100,000	\$500,000	\$600,000
104	I Pet Interactive Technology (HK) Co., Limited	-	\$100,000	-	\$100,000
105	Inno Frontage Limited	-	\$100,000	-	\$100,000
106	InReader Limited	-	-	\$100,000	\$100,000
107	Jobdoh Limited	-	\$1,000,000	\$500,000	\$1,500,000
108	Look Incorporation Limited	-	-	\$100,000	\$100,000
109	MCTIPSS Limited	-	-	\$100,000	\$100,000
110	Microenergy Development Limited	-	-	\$100,000	\$100,000
111	MineCos Limited	-	-	\$100,000	\$100,000
112	Nearko Limited	-	-	\$100,000	\$100,000
113	Next Wifi Technologies Limited	-	-	\$500,000	\$500,000
114	Parallax Technologies Limited	-	\$100,000	-	\$100,000
115	Phi Info (Hong Kong) Limited	-	\$100,000	-	\$100,000
116	PlusD Technology Limited	-	\$100,000	-	\$100,000
117	R-Guardian Limited	-	\$100,000	-	\$100,000
118	Superluminal Technology Limited	-	\$100,000	-	\$100,000
119	Techlabs Holdings Limited	-	-	\$500,000	\$500,000

Start-up		Amount of Funding Approved			
		2014-15	2015-16	2016-17	Total
120	Ultimate Sports Hub Limited	-	-	\$100,000	\$100,000
121	Vision Science and Technology Company Limited	-	-	\$100,000	\$100,000
122	Zunosaki Limited	-	\$100,000	-	\$100,000
<i>Number of applications approved</i>		<i>36</i>	<i>66</i>	<i>67</i>	<i>169[@]</i>
Total		\$65,572,473			

⁺⁺ The start-up comprised students and alumni of CUHK and CityU in its team and could therefore submit its application to any one of these universities. That said, the start-up, like others, could only be funded by TSSSU for no more than three years.

[@] 39 start-ups were funded for more than one financial year.

Table 2: Applications Not Approved

Financial year	HKU	CUHK	CityU	HKUST	HKBU	PolyU	Total
2014-15	21	7	15	6	8	7	64
2015-16	15	12 [#]	29	14	7	84 [*]	161
2016-17	13	8	22	40	5	23	111
Total	49	27	66	60	20	114	336

[#] One of these applications was withdrawn by the applicant.

^{*} Two of these applications were withdrawn by the applicants.

Technology Start-up Support Scheme for Universities (TSSSU)

Table 3: Summary of products/services rolled out in the market by TSSSU-funded start-ups

(Note: The information below is provided by the start-ups concerned. Please refer to the website of individual start-ups, if any, for further details.)

Start-up		Products/Services Rolled out in the Market (as at 31 October 2016)
The University of Hong Kong		
1	Appedu (Holding) Limited	Launched Snapask and Snapask ACE-Virtual Classroom on the web and an app store.
2	Comma Technology Limited	Developed CommaPen which integrates various functions such as UHF RFID reader, barcode scanning and temperature sensors. CommaPen, CommaPen-enabled intelligent patrolling system, CommaGlove and CommaWatch were rolled out in the market and used by seed users.
3	Hactis Limited	Developed the Mobile imseCAVE VR System which allowed rapid assembly and disassembly for road show and demonstration at different sites.
4	Hong Kong Unific Publishing Limited	Developed a set of primary mathematics e-textbook, which was being tested in different schools in cooperation with the Education Bureau and the University of Hong Kong.
5	Novoheart Limited	Made available the human pluripotent stem cell-derived cardiomyocytes and the MyHeart™ Platform in the market.
6	OncoSeek Limited	Launched the circulating tumour cells counting service, which could be used for early screening for invasive cancer, real-time monitoring of cancer status/treatment response and estimating the risk of cancer recurrence.
7	Passber Limited	Rolled out the Passber cloud membership system, which provided customised membership solution for its clients.

Start-up		Products/Services Rolled out in the Market (as at 31 October 2016)
8	Printact Limited	Developed four models of 3D printer for sale in the market, and a remote control system and error-detection system as plug-in features.
The Chinese University of Hong Kong		
9	BrainNow Medical Technology Limited	Developed AccuBrain, a system which could automatically quantify magnetic resonance images. Testing has been started in several seed clients in Hong Kong and Mainland China.
10	C4Cat Entertainment Limited ⁺⁺	Rolled out a mobile music game named Dynamix in the market and also developed a cloud system for storing game account data.
11	Codex Genetics Limited	Made a deal with a public hospital on the provision of hardware, software and training on cancer mutation screening. Successfully commercialised a pharmacogenomics test with a leading local diagnostic company, which aimed to bring personalised medicine to the general public.
12	Edvant Company Limited	Rolled out Edtool, the mobile-ready solutions that revolutionise presentations and interactions for education purpose, and made it available in an app store.
13	GEMVCare Limited	Developed two testing services which could predict risk of having diabetes and its complications at an early stage.
14	Health View Bioanalytic Limited	Rolled out the Automatic Retinal Image Analysis for Stroke Risk Assessment in the market.
15	HippoTuring Technologies Company Limited	Developed the CVH-Slicer and sold it to a medical technology company. Developed a health care app.
16	HSK GeneTech Limited	Launched the gut microbiome sequencing service for adult weight management. Set up Gutsy reports, Gutsy guides and a microbiome-health relational database.
17	HyperLab Limited	Rolled out the search engine Hyperlink, a unified entry-point to search various data sources like social network, cloud storage and webs collection.

Start-up		Products/Services Rolled out in the Market (as at 31 October 2016)
18	RegCourse Limited	Rolled out RegReview (course review platform), RegPeanut (Q&A information platform), RegEvent (event promotional platform) and Reg&Uni (admission analytic platform) in the market.
19	SicureLabs Company Limited	Finished the product development for FIA Simulator and passed its trial use in a company.
20	Unitinno Architectural Technology Development Company Limited	Developed a “summer ventilation version” of Chequered House, which was selected as the China Outdoor Pavilion in the 15 th Venice Biennale of Architecture.
City University of Hong Kong		
21	Air Button Technology Limited	Launched Air Button in the markets in the U.S., Canada, and Hong Kong.
22	BeVoid Limited	Launched Roundabuy, a mobile app, on both iOS and Android markets.
23	C4Cat Entertainment Limited ⁺⁺	Published Dynamix, a mobile music game which included more than 20 Hong Kong original songs in its first release.
24	Hong Kong Bilingual Learning and Translation Studies Association Co. Limited	Developed an online translation teaching platform which was used by a university in the Mainland China. Eight more universities have also applied for trial use of the platform.
25	Kung Fu Motion Limited	Developed new media installations which were exhibited at the "300 Years of Hakka Kung Fu: Digital Vision of its Legacy and Future" held in the Hong Kong Heritage Museum and City University of Hong Kong. Museums in other places like Shenzhen, Melbourne and New York also expressed interest in bringing the exhibition over.
26	MindLayer Limited	Developed and debuted the first Cantonese-supported Banking A.I. Banking Chatbot at an event organised by a local accelerator.

Start-up		Products/Services Rolled out in the Market (as at 31 October 2016)
27	New System Technologies Limited	Developed automated contracts for lenders and borrowers in Hong Kong using blockchain technology. The first automated contract has been made available in Hong Kong.
28	NoPhish Technology Limited	Developed safeQR™, an anti-phishing mobile app for both Andorid and iOS platforms.
29	ProHub Limited	Introduced an event management system which included both a server-client system and the mobile applications.
30	Teorema Limited	Built a trading system and algorithms for trading on the US equity markets, focusing on trading stocks and non-US American depositary receipts on the NYSE and NASDAQ stock exchanges. Conducted live trading tests and generated small net income for the company.
31	The Worldpath Limited	Rolled out the IELTS courses and services in the Hong Kong and Mainland markets. Developed a mobile app for self-learning Mandarin.
The Hong Kong University of Science and Technology		
32	Acoustic Metamaterials Company Limited	Developed the broadband metamaterial soundproofing panels which showed very high efficiency in low frequency sound absorption.
33	AIEgen Biotech Co., Limited	Developed more than 10 bio-probes and more than 20 intermediates.
34	beNovelty Limited	Launched TabTab.io, an online music education platform on Web and iOS platform to serve music students from both primary and secondary schools.
35	Compathnion Technology Limited	Developed the Wherami Solution Suite as well as an online system to build, manage and maintain the content related to the mobile applications.
36	DelTron Intelligence Technology Limited	Launched Vimble X and Vimble S in the market.
37	eTron Electronic Materials (Hong Kong) Co. Limited	Launched the first series of conductive silver pastes, which could be widely used in flexible circuit boards, touch screen, electromagnetic shielding and other fields.

Start-up		Products/Services Rolled out in the Market (as at 31 October 2016)
38	Everest Innovation Technology Limited	Developed the integrated software solution Everest ALTISA™ to provide large-scale 3D reconstruction from photographs. The free online service platform for unmanned aerial vehicle (UAV) amateurs and professionals has been officially released. A mobile version was also available to facilitate UAV users in collecting data.
39	Hong Kong Innovative Display Technology Limited	Rolled out the Electronic Smart Label system in the market, which included hardware smart labels, track, stand and wireless transceiver, management software and maintenance service.
40	Mindvivid Limited	Launched the alpha version of two mobile applications, namely MV Test and Brainastic on an app store and the web.
41	NanoBioImaging Limited	Released the second generation of the super-resolution localisation microscope system, SRiS v2.0. Improved and added new function to the self-designed software, Rohdea version 2.0.
42	Pear Limited	Built the ViewCloud (GuanCloud) platform and launched ShadowFog, a crowdsourcing virtual private network service works on its fog platform. Designed an e-mail delivery system.
43	Yfisoft Limited	Has been evolving its main product, the Lavinet manager and Lavinet Mesh router, to form a WiFi Cloud which includes a number of new features such as cloud WiFi management, automatic configuration, automatic firmware update, etc.
Hong Kong Baptist University		
44	ANA Artwork Material Analysis Company Limited	Provided antique authentication charged service for private collectors and organisation. The service has been rolled out with freemium marketing strategy by collaborating with museums.

Start-up		Products/Services Rolled out in the Market (as at 31 October 2016)
45	Cathay Photonics Limited	Developed several products with trademarks protection including ArmoGlass (a layer of sub-micron ultra-hard, anti-scratch thin film for the applications such as mobile phone screen, etc.) and Sapphire+ (a product for camera-lens protector).
46	R & P Technology Limited	Rolled out an 8-channel mechanical cell wounder in the market which allowed simultaneous and reproducible wounding in various brands of 96-well culture plates.
The Hong Kong Polytechnic University		
47	Acoustics Innovation Limited	Rolled out products relevant to noise insulation, namely 7m high SilentUP, Type B Panel, 10m high SilentUP and movable noise barrier.
48	Advwhere Limited	Built an analytic tool to help marketing practitioners analyse the performance of key opinion leaders in social media platform.
49	AlikeAudience (Hong Kong) Limited	A Global Data Partner of Google DoubleClick. Media agencies are able to select the start-up's audience segments on Google DoubleClick Bid Manager.
50	Cognix Limited	Launched Hong Kong Intelligent Cognitive Assessment Platform (HK-iCap) on some major app stores. The platform could automatically assess the cognitive state of elderly patients through interactive games.
51	dEYEy Inno Tech Limited	Published a generator for photo QR code, Photo QR, for both iOS and Android markets.
52	Hocfu Technology Limited	Launched a contractor mobile app version 2.0 for Android called Hocfu to ensure better performance of contractor.
53	Holumino Limited	Delivered three installation projects for Hong Kong Design Institute. The mobile app, Spincle, was launched in an app store.
54	I Pet Interactive Technology (HK) Co., Limited	Rolled out a pet feeding product in the market with unique functions, including P-TOUCH, P-WEIGHT, etc.

Start-up		Products/Services Rolled out in the Market (as at 31 October 2016)
55	Jobdoh Limited	Developed an on-demand hiring platform in web and app versions for employers and employees.
56	Look Incorporation Limited	Developed a system through which an user could create interactive video, form, and survey which could be applied to the users' offline marketing campaign.
57	Next Wifi Technologies Limited	Provided AdWiFi service, an advertisement service based on free Internet access, to the public in multiple locations of stores and shops in Hong Kong.
58	Parallax Technologies Limited	Provided mass marketable and affordable virtual reality and augmented reality marketing solutions to the real estate sector.
59	Phi Info (Hong Kong) Limited	Rolled out UGuide in the market.
60	PlusD Technology Limited	Has put in operation an industrial metrology system. Further test will be conducted for performance enhancement to provide precise measurement results efficiently under different production environments.
61	R-Guardian Limited	Developed tracking chips for fashion brands.
62	Superluminal Technology Limited	Developed a website where customers could make orders for repairing phone, buying phone accessories, and buying second-hand phone. Developed an inventory management system for franchised stores owners.
63	Techlabs Holdings Limited	Rolled out Hatchee, a mobile responsive website in the market which allowed users to browse wedding venue by 360 degree video, check the availability for banquets and access information of the wedding shops.
64	Ultimate Sports Hub Limited	Released the beta version of CoachUs, a sports coach matching and intelligent health data analysis platform for coaches, individual and corporate users.

Start-up		Products/Services Rolled out in the Market (as at 31 October 2016)
65	Vision Science and Technology Company Limited	Developed the standard manufacturing, verification and fitting system for the defocusing contact lens, Disc Lens.

⁺⁺ The start-up comprised students and alumni of The Chinese University of Hong Kong and City University of Hong Kong in its team and could therefore submit its application to any one of these universities. That said, the start-up, like others, could only be funded by TSSSU for no more than three years.