香港特別行政區政府創新科技署 Innovation and Technology Commission The Government of the Hong Kong Special Administrative Region

Ref: ITCCR 2/3801/09 Pt 15

Tel: 2810 2733

3 January 2020

Clerk to Public Accounts Committee Legislative Council Secretariat Legislative Council Complex 1 Legislative Council Road Central Hong Kong (Attn: Mr Anthony Chu)

Dear Mr Chu,

Public Accounts Committee

Director of Audit's Report No. 73

Chapter 2: Provision of consultancy, research and development and training services by the Hong Kong Productivity Council

Thank you for your letter of 20 December 2019. I would like to provide the following information as requested by the Committee.

Ordinance" (HKPCO) in 1985 to allow the Hong Kong Productivity Council (HKPC) to undertake productivity-related assignments outside Hong Kong, in order to serve the Hong Kong enterprises more comprehensively and effectively, as well as make the best use of the human resources of the HKPC. Regarding paragraph 2.11 of the Director of Audit's Report which mentioned that the HKPC did not recover all costs incurred for 308 consultancy projects completed outside Hong Kong during the period from 2014-15 to 2018-19, 286 (93%) of them were projects conducted for Hong Kong enterprises or their subsidiaries in Guangdong Province and they could bring benefits to Hong Kong enterprises.

(b) In view of the rapid economic changes and technological advancement of Hong Kong, the former Industry Department (the predecessor of the Innovation and Technology Commission (ITC)) suggested in 2000 that the HKPC should appoint an external consultant to conduct a study on the HKPC's positioning and strategy. With the agreement of the Council, the HKPC engaged a consultant in 2001 to review the role, management and operation of the HKPC.

Since the completion of the above consultancy study in 2002, the HKPC has not separately engaged external consultants to conduct comprehensive studies on the role, management and operation of the HKPC. Notwithstanding this, in the past decade, the HKPC conducted a strategic planning meeting in 2011 to discuss with Council members the needs of the industry at that time for mapping out the HKPC's long-term objectives and direction; and held a special Council meeting in 2016 to discuss the future strategy and positioning of the HKPC to meet the different new demands of the industry. In recent years, as the Innovation and Technology Bureau (ITB) has clear policy direction of promoting re-industrialisation and developing innovation and technology, and the HKPC has been implementing supporting initiatives, the HKPC has not carried out similar studies.

The ITC will discuss with the HKPC on matters relating to the review of the HKPC's mode of operation, future business direction and subvention mode having regard to the future economic development of Hong Kong.

(c) The SAR Government provided a subvention of HK\$200,789,804 to the HKPC in 2002-03, which amounted to around 33.6% of its total income.

The SAR Government provided a subvention of HK\$186,179,758 to the HKPC in 2009-10, which amounted to around 39.8% of its total income.

As the then Automotive Parts and Accessory Systems R&D Centre has not yet merged with the HKPC at that time, the above subvention only included the recurrent subvention and subvention in addition to annual block grant provided to the HKPC.

(d) At the housekeeping meetings¹ held in June 2015, June 2016, June 2017 and June 2018, the Executive Director of the HKPC reported to the Commissioner for Innovation and Technology (CIT) the HKPC's performance on the Key Performance Indicators (KPIs) in the preceding

¹ Housekeeping meetings are held thrice per year, during which the Executive Director of the HKPC will highlight the major discussion items of the next round of Council and Standing Committee meetings to the Commissioner for Innovation and Technology.

financial year and the reasons for shortfalls against the targets for the relevant KPIs. For example, at the housekeeping meeting held on 14 June 2018, the Executive Director indicated that same as 2016-17, although the HKPC failed to meet the target of the "Number of consultancy projects accepted" in 2017-18, the income from consultancy projects did exceed the target because some consultancy projects were of a larger scale. In addition, due to increasing demand for integrated solutions by clients, many manufacturing support services had been included in consultancy projects; leading to the failure to meet the target for "Income from manufacturing support projects" and the situation persisted in 2017-18. The then CIT accepted the Executive Director's explanations. After the meetings, the ITC would also request the HKPC by email to provide relevant explanations in writing again for record purpose. Relevant documents are at Annex 1.

- (e)(i) The ITC was not aware of the change in the definition of consultancy projects made by the HKPC in July 2018 before the matter was discovered by the Audit Commission in the course of their audit work in 2019.
- (e)(ii) The "Memorandum of Administrative Arrangements on the Administration of the Subvention for the Hong Kong Productivity Council" (MAA) signed in 2009 did not specify the penalties or consequences of the HKPC's change of KPI definitions without informing the ITC. When we review the MAA, we will specify that if the HKPC would like to change the definition of a KPI in the future, it has to obtain the prior agreement of the Council and the CIT. In case of the HKPC's non-compliance in this respect, it will be reflected in the Executive Director's annual performance appraisal, which in turn will affect his variable pay.
- (e)(iii) According to paragraph 7 of the MAA, to ensure that the subventions from the Government are used in a cost-effective manner for the provision of services, the HKPC is required to propose for the CIT's approval a set of performance indicators for measuring the progress of the HKPC's activities. Such performance indicators shall include the dimensions of service delivery, operating efficiency, financial results and effectiveness of the HKPC. The performance indicators and targets may be reviewed from time to time and amended as agreed in writing by both the HKPC and the CIT. The HKPC shall submit to the CIT, together with the Annual Programme and Estimates, a report on its achievements with regard to the performance indicators. If the HKPC fails to achieve the agreed performance targets, the HKPC shall provide explanations for such failures to the satisfaction of the CIT.

Generally speaking, in July every year, the ITC will receive from the HKPC a Council paper reporting their performance with respect to the KPIs in the preceding financial year. The HKPC will submit to the Council in November every year the Annual Programme and Estimates of the forthcoming year, which contain the proposed activities, the KPIs and the respective targets, as well as the relevant financial estimates. Upon approval by the Council, the HKPC will submit the KPIs and targets for the next financial year to the CIT for approval. Since obtaining the Council's agreement in November 2015 and subsequently the CIT's approval, the HKPC has adopted 23 KPIs since 2016-17.

Regarding the HKPC's change of the definition of consultancy projects as mentioned in the Director of Audit's Report, the HKPC has set out the following definition of the KPI of "Number of consultancy projects accepted" in the 2020-21 Annual Programme and Estimates submitted to the Council in November 2019: "The proposed target has included estimates of the number of professional manufacturing support projects with consultancy elements, which are over \$5,000 in project value that will be accepted in 2020-21."

The HKPC also intends to submit to the Council in January 2020 the revised definition of the KPI of "Number of consultancy projects accepted" and the rectified actual performance (889 projects) for the Council's review. Upon endorsement by the Council, the HKPC will submit the relevant information and explanations to the CIT.

- (e)(iv) The ITC and the HKPC agree with the recommendation of the Audit Commission to review the current 23 KPIs. Having regard to the views provided by the Audit Commission and the Public Accounts Committee during the audit exercise and public hearings, the HKPC intends to submit the set of KPIs and targets for 2020-21 after the review to the Council for consideration at its meeting in March 2020. Upon endorsement by the Council, the HKPC will submit the proposal to the CIT for approval in accordance with the MAA by the end of March 2020, with a view to implementing the revised KPIs and targets starting from 2020-21.
- Amongst the 129 consultancy projects with delay in completion in 2018-19, there was no project which the ITC had engaged the HKPC to carry out. As for the consultancy projects which other Government departments had engaged the HKPC to carry out, the HKPC indicated that they had reported the progress of the projects to the relevant departments and kept them informed of the delay.

- The HKPC established the "Inno Space" in October 2017 to provide **(g)** workspace and technical support to start-up entrepreneurs, secondary or university students and graduates to assist them in developing their innovative ideas into industrial design, which may subsequently be translated into products through prototyping, so as to nurture a start-up culture in Hong Kong and support "re-industrialisation". been actively promoting "re-industrialisation", supporting start-ups and nurturing local innovation and technology talents in recent years. HKPC's operation of the "Inno Space" is in line with the Government's policy direction. Since 2017-18, the Government provided additional funding of HK\$17.76 million to the HKPC by two annual instalments for setting up the "Inno Space" and supporting its first two years of operation. We trust that the HKPC can sustain the operation of the "Inno Space", and will continuously review its mode of operation and key service targets in order to provide better support to its service targets.
- (h) Since July 2016, the ITC and the HKPC had been in discussion on the proposal of setting up the "Inno Space", and the HKPC's proposal was accepted by the ITC in May 2017. Details are set out below -
 - In October 2016, the HKPC briefed the ITB, the ITC and representatives from other relevant Government departments on the idea of establishing the "Inno Space". The powerpoint presentation is at **Annex 2**;
 - As the purpose of establishing the "Inno Space" was to provide workspace and technical support to assist users in developing their innovative ideas into industrial design, which may subsequently be translated into products through prototyping, the initiative aligns with the policy of the ITB to promote "re-industrialisation", and falls within the scope of service of the HKPC. Hence, the Government agreed to provide funding to the HKPC to establish the "Inno Space", and included the initiative in the "2017 Policy Address" announced by the Chief Executive in January 2017, the relevant extract of which is at **Annex 3**;
 - subsequently, the ITC and the HKPC discussed the details of the proposal at working level;
 - The HKPC introduced the "Inno Space" proposal to the members at the Council meeting held in March 2017 (the powerpoint presentation is at **Annex 4**);

- The HKPC submitted the detailed proposal for establishing the "Inno Space" to ITC in April 2017 (see <u>Annex 5</u>) for approval;
- The ITC informed the HKPC in May 2017 of the acceptance of the proposal, and the agreement to disburse an additional funding of HK\$17.76 million to the HKPC in 2017-18 and 2018-19 (see **Annex 6**).
- (i)(i) According to paragraphs 5.3 and 5.4 of the MAA, the CIT is the designated Controlling Officer of the subvention granted by the Government to the HKPC, and will ensure that the HKPC's activities accord with its objectives and relevant public policies and priorities, and its subvention is properly used and disbursed. The CIT will ensure that the HKPC's policy objectives are appropriate, and that they remain so in the light of changing circumstances. The CIT may advise the HKPC of the need to review these objectives in the light of changes in the economic environment. According to section 5 of the HKPCO and paragraph 5.1 of the MAA, the HKPC is autonomous in the management and control of its activities and resources.

Specifically, the HKPC is required to submit the following for the Government's review -

- The HKPC shall submit to the CIT in each financial year, before the submission of its Annual Programme and Estimates, a Three-year Forecast. The Forecast shall set out the strategic targets of the HKPC, the plans to be adopted in achieving those targets, and an assessment of their resource implications. It shall be updated and rolled forward on an annual basis. The HKPC will normally submit to the ITC in July every year the above Forecast in the form of a Council paper.
- According to paragraph 6.2 of the MAA, in each financial year, the HKPC shall produce the Annual Programme and Estimates for the forthcoming financial year for the Government's approval, which shall contain the proposed activities, the KPIs and the respective targets, as well as the relevant financial estimates for the forthcoming financial year. The HKPC will normally submit to the Council in November every year the Annual Programme and Estimates for the forthcoming financial year for discussion. After endorsement by the Council, the HKPC will submit the Annual Programme and Estimates to the Government in December for approval. After review by the Secretary for Financial Services and the Treasury, the Secretary for Innovation and Technology, with the authority delegated to him, will grant approval of the Annual

- Programme and Estimates of the HKPC in accordance with section 16(1) of the HKPCO. The HKPC is required to operate in accordance with the approved Annual Programme and Estimates.
- According to paragraph 7.3 of the MAA, the HKPC shall submit to the CIT, together with the Annual Programme and Estimates, a report on its achievements with regard to the KPIs in the preceding year. Paragraph 7.4 of the MAA requires that, if the HKPC fails to achieve agreed performance targets, the HKPC shall provide explanations for such failures to the satisfaction of the CIT. The Executive Director will normally hold the housekeeping meeting with the CIT in June or July every year, including reporting on the HKPC's performance with regard to the KPIs in the preceding financial year, and providing explanations for shortfalls against the targets for the relevant KPIs. The ITC will normally receive the relevant Council paper in July every year from the HKPC as well.
- In addition, according to paragraph 5.8 of the MAA, the HKPC shall produce to the CIT within six months after the end of each financial year a report on its activities and audited statements of accounts. The ITC will normally receive the annual audited accounts from the HKPC in July every year in the form of a Council paper, and the HKPC will normally submit their annual report to the Council in In accordance with section 19(1) of the August every year. HKPCO, the HKPC shall make to the Chief Executive a report on its activities and shall transmit to the Chief Executive a copy of the financial statements and the audit report not later than six months after the end of each financial year. The HKPC will submit the annual report, the financial statements and the audit report to the Chief Executive's Office by end of September every year, and the ITC will arrange the relevant documents to be laid on the table of the Legislative Council in October or November.
- According to section 6(1) of the HKPCO, the HKPC shall, before establishing or varying any salary scale (including any scale of allowances and other pecuniary benefits) for staff of the HKPC, submit for the approval of the Chief Executive particulars thereof, and the relevant authority has been delegated to the CIT. The HKPC will normally submit the salary adjustment proposal to the Council for review in July every year, and upon endorsement by the Council, submit the proposal to the CIT for approval.
- (i)(ii) The Government issued in December 2008 internal guidelines regarding the appointment of Government officials to Boards of Government-owned or funded statutory bodies and companies. It was

stated that should a policy bureau consider it necessary to appoint Government officials as board members of Government-funded statutory bodies, as there may be rare instances that the Government officials may face situations where the interests of the body do not totally coincide with the public interest, the policy bureau should seek to include an express provision in the ordinance requiring the Government officials to represent public interests in priority over those of the statutory body when the ordinance is next reviewed in order to minimise the relevant legal risks.

The ITC drew reference to the above guidelines at the time, and having consulted the Department of Justice, revised paragraph 5.9 when the MAA was reviewed in 2009 to clarify the role of Government officials in the Council of the HKPC (i.e. to represent the Government's interests in priority over those of the HKPC). The revision was agreed by the Council of the HKPC in June 2009.

According to experience, the above revision has not affected the autonomous operation of the HKPC.

Yours sincerely,

(Ms Rebecca Pun) Commissioner for Innovation and Technology

c.c. Secretary for Innovation and Technology
Secretary for Financial Services and the Treasury
Chairman, Hong Kong Productivity Council
Executive Director, Hong Kong Productivity Council
Director of Audit

Key Performance Indicators (KPI) 2015 (on 2014-15 KPIs)

10 out of 10 on "Effectiveness" all surpassed target,

New services and products introduced (30 vs 29)

Number of patent/licence / royalty (19 vs 8)

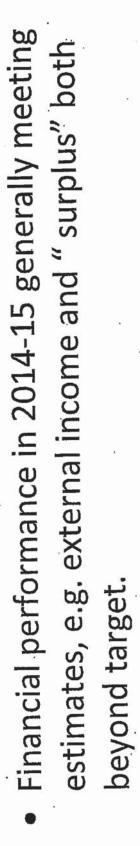
Number of products / technologies

commercialized (15 vs 13)

Customer satisfaction index (8.9 vs 8.7)



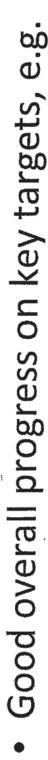
Key Performance Indicators (KPI)



consultancy, training, study missions, etc.) fall below Though income from some streams of business (e.g. target, income from government funded projects shortfall (e.g. \$79M government-funded project being better and more than compensating the achieved vs budget of \$33M).



Key Performance Indicators (KPI)



Income/expenditure ratio (71.1% vs 67.4%)

Overall income/employee (\$637k vs 580K)

So, while meeting and performing beyond targets for 13* out of 22 targets and missing the other 9, the overall performance is commendable.

*incl. 1 newly adopted KPI (% of business employee hours charged to billable projects) for which no target has been set for 2014/15



(2014-15)



Re: Fw: Supplementary Information for Consideration of Variable Pay for 2014-15

2017 10

Cc:

@hkpc.org to: @hkpc.org, @itc.gov.hk

2015/07/03 下午 06:30

From:

@hkpc.org

To: .

"Lavita MY CHAN" <

@itc.gov.hk>

@hkpc.org

Cc:

@hkpc.org,

@hkpc.org

History:

This message has been forwarded.

1 attachment

Previous set of KPIs.docx

Dear Lavita,

Your email to Alfonso refers. Atth. pls. find the requested information.

Best regards, Gillian

From:

"Lavita MY CHAN" <

@ltc.gov.hk>

To:

@hkpc.org,

Cc: @

@hkpc.org, "BS YEUNG" <

@ltc.gov.hk>, "Emily ML LEUNG" <

@itc.gov.hk>

Date:

03/07/2015 09:54

Subject: Fw: Supplementary Information for Consideration of Variable Pay for 2014-15

Dear Alfonso,

Further to my preceding email, I should be most grateful for your urgent input, in Word format, on the list of KPIs in 2014-15 (measured against the original set of 30 KPIs with targets set for that year) not meeting targets and reasons for the variance. This would facilitate our internal consideration of HKPC's proposed VP which would be discussed at the coming Staffing Committee Meeting to be held on 10 July.

Regards, Lavita

Tel: 3655 5491

----- Forwarded by Lavita MY CHAN/ITC/HKSARG on 2015/07/03 上午 09:49 ----

From:

Lavita MY CHAN/ITC/HKSARG

2014/15 KPIs - Previous Set

A. KPIs with more than 10% variation

KP	I	Target	Actual	Achievem ent	Reason for Variancé
1.	No. of consultancy projects accepted	1250	970	78%	 The >1000 target was ambitious and aimed at driving staff performance. Last year (2013/14) actual figure was 964. Actual consultancy income largely met target (91%). Major development initiatives such as implementation of business development corporate goals, R&D efforts, government funded projects and promotion programmes have impact on new consultancy project number.
2.	No. of fee- charging training courses launched	300	180	60%	The focus of training continued to be high-end courses in niche areas in 2014/15 (e.g. business processes in SAP human capital management, governance of enterprise IT etc.)
3.	Number of people attended fee- charging training courses	5800	3041	52%	 It takes time for the market to get ready for such courses, especially during volatile market conditions and in face of rising operation cost. To enhance recognition of HKPC's training programmes, a lot of effort in 2014/15 was devoted to preparing for QF accreditation for the Productivity Training Institute and develop QF training programmes.

KPI		Target	Actual	Achievem ent	Reason for Variance
4.	Number of exhibitions/ study missions/ conferences	50	. 28	56%	The shortfall was largely caused by a reduction in number of exhibitions and study missions held. Exhibition
5.	Number of people attended exhibitions/ study missions/ conferences	2900	1355	4.7%	 HKPC had reduced involvement in the business and chosen to participate in exhibitions rather than acting as an organizer. Study Mission Non-fee-charging seminars and networking events attracted more than 23,500 participants in 2014/15, surpassing the target by 30%. 42 industry consultation events were organized, surpassing the target by 14%.
6.	Income from training courses	\$19.81M	\$12.898 M	65%	Same as above under "no. of fee- charging training courses launched"
7.	Income from exhibitions and fee- charging study missions/ conferences	\$5.506M	\$3.495M	63%	As explained above under "Number of exhibitions and fee-charging study missions/ conferences organized"
8.	Income from manufacturing support projects	\$33.103 M	\$26.027 M	79%	 Clients increasingly seek integrated solutions rather than one-off manufacturing support service. The reduction in activities in the electronics manufacturing industry in Guangdong and HK resulted in a reduction in bureau testing services. Actual figure represents an 13% growth from that of 2010/11.
9.	Income per consultancy project in progress	\$0.15M	\$0,129M	86%	 Ambitious target was set to drive performance. The target has been on the rise since 2011/12. This indicator has continued to reach new levels since 2010/11. The 2014/15 figure achieved represents an 11% increase over 2010/11.

KPI	Target	Actual	Achievem ent	Reason for Variance
10. Number of new government funded projects	35	28	80%	 HKPC was heavily involved in government funded projects and R&D projects carried forward from previous years. In 2013/14, 43 government funded
11. Funding approved for new government funded projects	64.7	49	76%	projects for \$109.1M were approved which was the highest level in the past 5 years both in terms of project number and approved funding. Implementation of the majority of the projects continued into 2014/15.
# ge		į.		 The number of on-going R&D projects in 2014/15 exceeded target (67 on-going projects against the target of 43). This number is the highest in the past 5 years.

B. KPIs with less than 10% variation

KP	ĭ	Target	Actual	Achievem ent	Reason for Variance
1.	Percentage of employee hours charged to billable projects	68%		91%	The variance was due to an increase in staff engaged in public mission-related activities like service platforms (SME One, TecONE) and corporate goals for 2014/15 to strive for sustainable business development (e.g. software testing certification scheme, best practice models for retail/food lifecycle
947				,	management etc.) - Excluding corporate divisions, the figure will be 86.1% which exceeded last year's actual figure (85.9%).
2.	Income from consultancy projects	\$290.675M	\$265.44M	91%	 An ambitious target was set to drive staff performance. Actual figure has been the rise since 2010/11. Overall there was a 31% increase over 2010/11. That the target was largely
				; 7	achieved indicated staff effort to excel.

Powerpoint Presentation for Housekeeping Meeting on 28 June 2016 (on 2015-16 KPIs)

100				
	KPI	2015/16 Performance Target	2015/16 Actual	Achieved %
(1) Key Performance Me	(1) Key Performance Measure: Service Delivery			
(a) Number	Yumber of consultancy projects accepted	1070	917	%98
(b) Number	Number of fee-charging training courses launched	285	186 (Note 1)	%59
(c) Number	Number of people attended the fee-charging training courses	5370	3941 (Note 2)	73%
(d) Number of people atte missions/conferences organized	Number of people attended exhibitions/fcc-charging study conferences organized	2180	2230 (Note 4)	102%
2) Key Performance Me	2) Key Performance Measure: Operating Efficiency			
(a) Percentag	Percentage of business employee hours charged to billable projects	87.0%	92.8%	107%
(3) Key Performance Me	(3) Key Performance Measure: Financial Result			
(a) Overall i	Overall income/expenditure ratio	68.4%	70.7%	103%
(b) Income for	ncome from consultancy projects (\$Mf)	300.000	307.716	103%
(c) Income fi	ncome from training courses (\$M)	19.000	8.910	47%
(d) Income fi	ncome from exhibitions/study missions/conferences (\$M)	3,900	4.844	124%
(e) Income fi	income from manufacturing support projects (\$M)	34.000	23.602	%69
(f) Overall in	Overall income per employee (\$M)	0.620	0.676	109%
	ncome per consultancy project in progress (\$M)	0.150	0.152	101%
(4) Key Performance Measure: Effectiveness	easure: Effectiveness			
Industry consultation	(a) Number of theme-based industry consultation organized: Hong Kong Industry Network Cluster (HK-INC) and non-HK-INC	40	51	128%
HKPC services and marketing effort	(b) Number of people attended events/networking activities for associations/non-fee-charging seminars	18430	20620	112%
	(c) Number of new services and products introduced 24	24	30	125%
New products, new	5850	8	13	163%
technologies, new	(e) Number of products/technologies commercialized	14	21	150%
methodologies,	(f) (i) Number of R&D projects - new projects	29	38	131%
commercialization	(f) (ii) Number of R&D projects - on-going projects	52	66	190%
Outcome of consultancy projects	(g) Percentage of customers reporting productivity increase	%56	100%	105%
Customer satisfaction	(h) Customer satisfaction index	8.8	8.92	101%
Satisfaction of training	(i) Training participants satisfaction index	8	8.4	105%



(2015-16)

☐ Urgent ☐ Return Receipt Requested ☐] Sign ☐ Encrypt ☐ Mark Subj	ect Restricted	sonal&publ
Re: supplementary information	tion for consideration for VP	for 2015-16 2016/07/06 上午 10:56	
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From: "Abby SH CHENG" < @itc.gov.hk>	£ /8	(6)	•
To: @hkpc.org, Cc: @hkpc.org, "BS YEUNG" < @ltc.g	jov.hk>, "Jason KP CHEUNG" <	@ltc.gov.hk>	
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Subject: supplementary information for consideration	for VP for 2015-16		
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Dear Ling,			
To facilitate our consideration for the VP for 20 information in the attached document.	015-16, grateful if you could veri	fy and provide the	
Many thanks.			

Supplementary Information for Consideration of 2015/16 Variable Pay

1. Grateful if HKPC could fill in the blanks highlighted in yellow below.

Number of HKPC PPS Staff (include APAS)

	2013-14	2014-15	2015-16
Total no. of HKPC staff (excluding GM and	617	. 626	610
above)		:	
Data as at 30 June			
Total no. of Directorate staff (i.e. GM and above)	12.	14	12
Data as at 30 June			
Total no. of PPS staff (excluding GM and above)	507	531	528
Data as at 30 June			<u> </u>
No. of PPS staff eligible for VP (excluding GM	426	423	459
and above)	120	.25	
No. of GM staff eligible for VP	8	. 8	9
No. of BD & ED staff eligible for VP	3	4	4 .

HKPC Performance

2.	2013-14	2014-15	2015-16
External income@	\$375M	\$391M	\$413M
	(+3.3%)	(+4.3%)	(+5.6%)
Value added	\$215M	\$227M	\$234M
(External income – project expenses)	(+7.5%)	(+5.6%)	(+3.1%)
Total expenditure	\$542M	\$541M	\$575M
(incl. capital exp. + depreciation, etc.)	(+4.6%)	(-0.2%)	(6.3%)
Income per HKPC staff	\$0.615M	\$0.637M	\$0.676M
•	(+0.5%)	(+3.6%)	(+6.1%)
Surplus before VP disbursement	\$19.5M	\$43.2M	\$36.4M
	(-31.3%)	(+121.5%)	(-15.7%)
No. of KPIs met or exceeded	20 out of 30	*15 out of 22	17 out of 22
	KPIs	KPIs	KPIs

@, Excluding APAS Division's results.

^{*} Percentage of business employee hours charged to billable projects has no target set in 2014/15.

3. Please provide a table setting out the KPIs not meeting targets and reasons for the variance.

KPI	Target	Actual	Achievem ent	Reason for Variance
1. No. of consultancy projects accepted	1070	917	86%	 The >1000 target was ambitious and aimed at driving staff performance. Actual consultancy income exceeded target by 3%, indicating larger project size (e.g. in the areas of environmental management, automation service etc.) and the below target number of consultancy projects had minimal impact on consultancy income. Major development initiatives such as implementation of business development corporate goals, R&D efforts, government funded projects and promotion programmes have impact on new consultancy project number.
2. No. of fee- charging training courses launched	285	196	69%	 The focus of training continued to be high-end courses in niche areas in 2015/16. It takes time for the market to get ready for such courses. The volatile economic climate has
3. Number of people attended feecharging training courses	5370	4248	79%	dampened employer interest in investing in non-essential expenditure items like human resource development. - The 2 QF accredited courses launched during the year are insufficient to make
4. Income from training courses	\$19M	\$8.910 M	47%	a significant impact to uplift the overall training income.
5. Income from manufacturing support projects	. \$34M	\$23.602 M	69%	 Clients increasingly seek integrated solutions rather than one-off manufacturing support service. Some manufacturing support service incorporated into consultancy e.g. diffusion bonding, conformal cooling, mould component fabrication

4. Please advise the estimated increase in VP payment (in both absolute amount and % increase compared to the VP payment in 2014-15) arising from the annual pay trend adjustment and merit increment of PPS eligible staff in 2015-16 only. This is to estimate the net increase in VP after discounting the effect of annual pay trend adjustment and merit increase on the basic salary of staff. You are welcome to suggest alternative methodology on how to discount these basic factors.

	2014-15 Actual	2015-16 Estimated	Increased Amount
	Payment	Amount #	& Percentage
VP Amount	\$9.302M	\$9.568M	\$0.266M
Exclude APAS	1000 / 100		(+2.86%)

[#] Subject to final performance bands and Council approval

If the "pay trend adjustment and merit increments (total average at 6.32% for PPS)" are excluded from the basic salary in calculation of the 2015-16 VP payment, the comparison of VP payment will be changed as follows:

-	2014-15 Actual Payment	2015-16 Estimated Amount (exclude pay trend adjustment and merit increments)	Adjusted Amount & Percentage
VP Amount Exclude APAS	\$9.302M	\$8.963M	-\$0.339M (-3.64%)

A downturn in 2015-16 variable pay after net-off the year-to-year salary adjustment.

5. Please provide special circumstances to justify the proposed variable pay, internal or external, if any (with reference to the various factors endorsed by the Council, e.g. staff morale, PR, etc).

VP is one of our important performance management tools whereby we could award and recognize performers for their valuable contributions. The Management considers that granting the VP is necessary against the backdrop of sustainably good corporate performance such that VP continues to be seen by staff as part and parcel of the institutional arrangements to drive performance and that performance would be duly rewarded. After considering all the factors and staff sentiment, the Management considers that the proposed VP payouts, following our past three years' practices, will appropriately recognize the staff members' exceptional contribution in the past year and promote staff morale.

- As agreed by the Council in 2015, starting from 2016/17,
- the KPIs would contain 23 indicators: 13 core KPIs + 10 other KPIs
- 2 new KPIs would be introduced:
- Total external income
- A score of 7.5 or above out of 10 in terms of productivity gain by clients (replacing "% of customers reporting productivity increase")





In 2016/17, 18 out of 23 KPIs exceeded targets.

All core KPIs exceeded targets

The second secon	ALT.	Actual	Performance Target	Actual	Achieved %
Part I Core KPIs					
Ke.	Derailing Efficiency				
a) Ferrentage of business em	Petrentage of dusiness employee flours charged to billable projects	97.8%	87.5%	96.4%	110%
2) Key Performance Measure: Financial Result	inancial Result	700 700	7007		
	c lynn	10,178		2	
	yee (SM)	0.08			
e) Total external income (SM)	G	413.2 (new KPI from 2016/17)	129.4	47.3	184%
3) Key Performance Measure: Effectiveness	Merikeness				
adustry consultation	(a) Number of theme-based industry consultation organized: Hong Kong Industry Network Cluster (FIK-INC) and non-HK-INC	31	07	77	105%
EKPC services and marketing	(b) Number of people attended events metworking activities for associations unabec charging seminars	20,620	22,000	22,074	100%
dew products, new services, new	(c) Number of new services and products introduced	30	7.	28	117%
celnologies, new applications,	(d) Number of patent licence royalty	13	90	18	225%
owner of the for	(e) Number of products/technologies commercialized	31	14		136%
		38		9+	
Datcome of consultancy projects	(g) Percentage of customers giving a score of 7.5 or above out of 10 in terms of productivity gain	n'a (new KPI from 2016:17)	75%	8	116%
Sustomer satisfaction	(l) Customer satisfaction index	8.9	89	9.0	102%
alisfaction of training participants	(3)	F'8			
Part II Other KPIs					
1) Key Performance Measure: Service Delivery	enite Deliver				
a) Number of consultancy projects accepted	ojects accepted	917	1,020	816	9366
	iming courses launched	961			
		(Note I)		(Note 4)	
c) Number of people attended	Number of people attended the fee-charging training courses	4,248 (Note 2)	3,390	4,198 (Note 5)	124%
d) Number of people attender	Number of people attended exhibitions/fee-charging study missions/fee-charging conferences	122,2 (Note 3)	000'1	4236 (Note 6)	*6901
2) Key Performance Measure: Financial Result	Inancial Result				
a) Income from consultancy projects (SM)	svojects (SM)	307.7	312.6	344.1	1100%
	cs (SM)	8.9			53%
	Income from exhibitions/study missions/conferences (SM)	4.8			197%
d) Income from manufacturing support projects (SM)	g support projects (\$Mf)	23.6			**69
c) Income per consultancy project in progress (\$M)	oject in progress (SM)	0.15	0.15	0.14	936%
3) Key Performance Measure: Effectiveness	Mediveness				
dew products, new services, new celunologies, new applications,	(a) No. oFR&D projects - on-going projects	66	49	66	202%
EN HIGHWOOD SEED,					

HKPC's Performance in Perspective

- Of the 5 KPIs with variance from targets,
- 3 recorded 10% or less shortfall from target
- no. of consultancy projects accepted
- no. of fee-charging training courses launched
- income per consultancy project in progress
- 2 are income-related KPIs which recorded more than 10% shortfall:
- income from training
- Income from manufacturing support projects

income from consultancy projects which exceeded Their shortfall (totaled \$20M) is compensated by target by \$32M.



HKPC's Performance in Perspective (con't)

Overall, total external income in 2016/17 (being \$447M) is higher than budget (being \$429M). Income/expenditure ratio and overall income per employee both exceeded targets (74% vs 69%, \$0.76M vs \$0.65M).



☐ Urgent ☐ Return Receipt Requested ☐ Sign ☐ Encrypt ☐ Mark Subject Restricted ☐ Expand personal&publ
RE: Confidential: HKPC - 57th Meeting of Staffing Committee (4/7/2017) 2017/06/30 下午 06:20
From: Gillian Siu Lan LUK < @hkpc.org> To: Abby SH CHENG < @itc.gov.hk> Cc: Alfonso Shik Wing TAM < @hkpc.org>, Flora Shuk Hing Ll < @hkpc.org>,
Agnes Tsz Wan TANG < @hkpc.org> 1 attachment
KPI.docx
Dear Abby,
Your email to Agnes Tang refers. Atth. pls. find our reply.
Best regards, Gillian
From: Abby SH CHENG [mailto: @itc.gov.hk] Sent: Wednesday, June 28, 2017 9:25 AM To: Agnes Tsz Wan TANG < @hkpc.org> Cc: Flora Shuk Hing Ll < @hkpc.org>; Gillian Siu Lan LUK < @hkpc.org> Subject: Fw: Confidential: HKPC - 57th Meeting of Staffing Committee (4/7/2017) - Paper no. SC 6, 7 & 8
Dear Agnes,
Thank you for the papers.
We understand from the paper on VP that HKPC did not achieve the KPI targets in 2016/17 for the following 5 indicators. Can HKPC provide reasons for our assessment? Thank you. (1) "Number of consultancy projects accepted"
(2) "Income from fee-charging training courses launched":
(3) "Income from training courses"
(4) "Income from manufacturing support projects"
(5) "Income per consultancy project in progress"
Abby

2016/17 KPIs Not Meeting Targets and Reasons for the Variance

KP	I	Target	Actual	Achieve ment	Reason for Variance
1.	No. of consultancy projects accepted	1020	948	93%	 Actual consultancy income exceeded target by 10%, with larger scale projects accepted in the areas of environmental management, automation service and smart manufacturing and materials. The below target number of consultancy projects had minimal impact on consultancy income. Indeed, engagement in larger scale consultancy projects was beneficial and necessary for HKPC to continually build up its capabilities, and experience and R&D results in larger
•	Š.			,	projects would also be gainfully cascaded by HKPC to SMEs later on.
	.w/ ⁵ 1		1 2		The >1000 target was ambitious and aimed at driving staff performance.
2.	No. of fee- charging training courses launched	226	203	90%	Employers, adopting a prudent stance pending the emergence of a clearer picture of economic recovery, scaled

KF	ľ	Target	Actual	Achieve	Reason for Variance
3.	Income from training courses	\$17.6M	\$9.4M	53%	back on non-essential expenditure items like human resource development and preferred to send employees to shorter duration courses which deliver more immediate results and caused less disruption to their operation. Arising from the above, more training courses were of shorter duration, and hence contributing to falling income. Furthermore, courses in new technologies and business methodologies took a longer time for market to accept.
4.	Income from manufacturing support projects	\$36.6M	\$25.2M	69%	 Some manufacturing support services were incorporated into consultancy e.g. diffusion bonding, conformal cooling, mould component fabrication, as clients increasingly seek integrated solutions rather than one-off manufacturing support service.

KPI	Target	Actual	Achieve	Reason for Variance
			ment	
5. Income per consultancy project in progress	\$0.15M	\$0.14M	93%	 The marginal difference is arithmetic in the main as the calculation is based on consultancy project income generated by the number of consultancy projects in progress. There was a higher number of consultancy projects in progress in 2016/17 as compared with 2015/16, leading to a diluting effect causing a slight drop in income per consultancy project in progress. In this regard, it must be noted that some of these projects were newly launched towards the end of the review period and hence were mainly in the preparatory stage and did not generate much income.

2017/18 KPIs

- In 2017/18, 20 out of 23 KPIs exceeded targets.
- All core KPIs exceeded targets.



2017/18 KPIs

Overall financial targets exceeded

KPI	2017/18 2017/: Performance Actual	2017/18 Actual	% Met
Total external	\$449.81 M	\$471.70M 105%	105%
income			
I/E ratio	69.1%	76.40%	111%
Overall income per \$0.68M	\$0.68M	\$0.82M	120%
employee			





2017/18 KPIs

3 KPIs with variance from targets:

	The second secon	The second secon		
KPI	2017/18 Performance	2017/18 Actual	% Met	Remark
	Target	•		
Number of	896	669	72%	despite the shortfall,
consultancy projects				income per consultancy
accepted		7.7		project in progress
				exceeds target by 7%,
				indicating larger project
				size
Income from training \$14.0 M	\$14.0 M	\$8.0M	21%	the shortfall of these 2
courses				KPIs (\$13M) is
Income from	\$33.7M	\$26.7M	79%	compensated by income
manufacturing		61		from consultancy
				projects which exceeded
support projects				target by \$16M





☐ Urgent	Return Receipt Requested	☐ Sign	☐ Encrypt	☐ Mark Subject Restric	cted
	Key Performance Indicat	ors	,	2018/	07/12 下午 05:38
From:	Abby SH CHENG/ITC/HKSARG	à		9	
To:	@hkpc.org				
Cc:	BS YEUNG/ITC/HKSARG@ITC	, Jason Ki	P CHEUNG/I	TC/HKSARG@ITC	

Dear Gillian,

As spoken, we understand that HKPC has met 20 out of 23 targets for 2017/18. On the remaining three KPIs not meeting the target, we would like to seek your clarifications on the following:

(1) No. of consultancy projects accepted (699 against target of 968. For the past two years, the figures were 948 and 917 respectively.)

While we note HKPC's explanation in the SC paper, the drop seems to be more significant this year, and we are also concerned that HKPC will be alleged of focusing more on larger enterprise, while services to SMEs are insufficient. We would like to know HKPC's further clarifications on this, as well as the anticipated results for the years to come.

(2) No. of training courses (7.979M against target of 14M. For the past two years, the figures were 9.4M and 8.9M)

We note that the income from training courses has been on the low side in recent years. Grateful to know the reasons behind. Besides, we will be launching the Reindustrialisation and Technology Training Programme (RTTP) later this year. We encourage HKPC to actively participate in this programme with a view to increasing the training income.

(3) Income from manufacturing support services (26.653M against target of 33.7M. For the past two years, the figures are 25.2M and 23.602M)

HKPC previously advised that the income could not meet target as some manufacturing support services have been incorporated into consultancy projects, in line with market demand for integrated solutions. Grateful to know if this reason is still valid, or that the target of 2017/18 has already reflected this phenomenon.

Grateful for your advice on the above. We will also raise these questions at the SC meeting tomorrow.

Happy to discuss. Thanks!

Abby

Powerpoint Presentation for Housekeeping Meeting on 4 July 2019 (on 2018-19 KPIs)

		Target	Actual
Part I Core KPIs			
(1) Key Performance Mensure: Operating Efficiency (a) Percentage of business employee hours	nance Mensure: Operating Efficiency Percentage of business employee hours charged to billable projects	92.0%	95.2%
Thomas and	inancial Result (HKSM)		
(a) Overall income/expenditure ratio	penditure ratio	%9'.29	77.5%
	r employee (\$M)	0.74	0.8
	me (\$M)	433.9	464.5
rform	Rectiveness	200000	
Industry consultation	(a) Number of theme-based industry consultation organized : Hong Kong Industry Network Cluster (HK-INC) and non-HK-INC	40	99
HKPC services and marketing effort	(b) Number of people attended events/networking activities for associations/non-fee charging seminars	22,000	28,564
New products, new services, new	(c) Number of new services and products introduced	27	77
technologies, new applications,	(d) Number of patent/ licence/ royalty	10	21
new methodologies,	(e) Number of products/technologies commercialized	81	18
		35	43
Outcome of consultancy projects	(g) Percentage of customers giving a score of 7.5 or above out of 10 in terms of productivity gain	82%	%06
Customer satisfaction	(h) Customer satisfaction index	8.8	9.07
Satisfaction of training participants (i)	(i) Training participants satisfaction index	8.2	8.56
Part II Other KPIs			
(1) Key Performance Measure: Service Delivery	service Delivery		
(a) Number of consul	Number of consultancy projects accepted	935	944
	Number of fee-charging training courses launched	200	234
0.0	Number of people attended the fee-charging training courses	3,000	6,084
(d) Number of people	Number of people attended exhibitions/study missions/conferences organized	4,000	4,039
(2) Key Performance Measure: Financial Result (HKSM)	Jinancial Result (HKSM)		
(a) Income from cons	Income from consultancy projects (\$M)	322.8	340.9
	ning courses (\$M)	12.6	7.6
	Income from exhibitions/study missions/conferences (\$M)	5.5	6.2
	Income from manufacturing support projects (\$M)	26.1	30.0
(e) Income per consu	Income per consultancy project in progress (\$M)	0.15	0.2
rion	Effectiveness		
New products, new services, new technologies, new applications,	(a) No. of R&D projects - on-going projects	59	132
HEW International Steep,			

Inspiring Disruption



2018/19 KPIs

- 22 out of 23 KPIs exceeded targets
- All core KPIs exceeded targets
- Only 1 KPI (Training Income) missed target
- Recovery Plan being taken in 2019/20:
- Appointed a new Head with significant experience in executive training
- A new cross-division cooperation model with strategic focuses
- Technology, Leadership and Management in partnership with Emphasis on Executive Training with focus on Innovation and leading international institutes
- Enhanced resources for promotion and marketing including social media

Inspiring Disruption

Follow-up email to HKPC (2018-19)

☐ Urgen	Return Receip	t Requested	☐ Sign ☐ Encrypt ☐ I	Mark Subject Restricted Expand p	ersonal&publ
(4)	RE: Confiden	tial: HKPC:	141st Council Meeting	(31/7/2019) - PC 16/2019 2019/07/29 下午 02:01	
From:	Gillian LUK'<	@hkpc.org>	ę.		
To:	Abby SH CHENG	i <	@itc.gov.hk>		
Cc:	Jason KP CHEUI	NG <	@itc.gov.hk>	n = 2	

History:

This message has been forwarded.

Dear Abby,

Pls. find our reply below.

Reason for shortfall

- The uncertain international economic situation has somewhat affected companies' resources commitment on public in-class training.
- Some corporations have increased the proportion of using internal resources or engaging customized corporate training to meet their learning objectives.
- The abundance of training providers in the market and training materials available online have intensified competition in the in-class training business.
- There is room for improvement in the collaboration and synergy between subject divisions and HKPC Academy. In previous years, the organisation of technology training had little input from the experts from subject divisions, thus not creating strong synergy on market demands and prevailing technology trends.

Actions taken to achieve a better result in the coming years

- A new Head with significant experience in executive training has been appointed.
- Business development focus has been placed on executive training with focus on innovation and technology, leadership and management in partnership with leading international institutes.
- A new cross-division cooperation model with strategic foci has been adopted.
- Enhanced resources for promotion and marketing including social media

Best regards,

Gillian Luk

Senior Manager Council Secretariat

T: (852) 2788 6283

HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong



From: Abby SH CHENG <

@itc.gov.hk>

Sent: Wednesday, July 24, 2019 9:34 PM

To: Gillian LUK <

@hkpc.org>

Cc: Jason KP CHEUNG <

@itc.gov.hk>

Subject: Re: Confidential: HKPC: 141st Council Meeting (31/7/2019) - PC 16/2019

Dear Gillian,

We note from the paper that the KPI for "income from training courses" fell below target by 40%. Grateful if HKPC could account for the reason, and provide the plan to achieve a better result in the coming years.

Abby

From:

Gillian LUK <

@hkpc.org>

Cc:

Date:

2019/07/24 下午 07:10

Subject:

Confidential: HKPC: 141st Council Meeting (31/7/2019) - Agenda and Meeting Papers

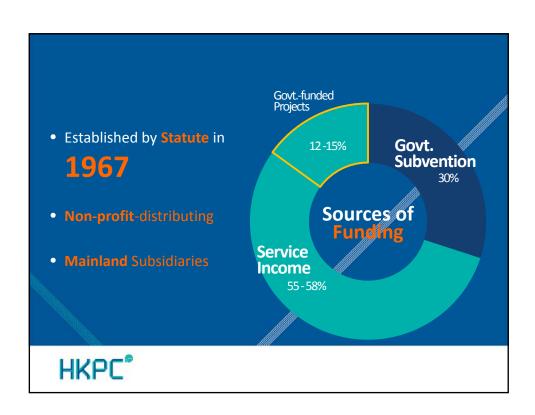
24 July 2019

To: Council Members

Dear Member,

I refer to the 141* Council meeting to be held at <u>3:00pm on Wednesday, 31</u>
<u>July 2019</u> in the Board Room, 2/F, HKPC Building, 78 Tat Chee Avenue, Yau





Inno Space – The Concept

- Inno Space is a concept of communityoperated workspace where people with common interests can meet, socialise and collaborate.
- Tools and equipment are provided to makers to facilitate product development

HKPC®

Inno Space – The Benefits

- Provide a physical space for peer experience and knowledge sharing
- Connect the community to foster innovation, search for inspiration and provide hands-on skills to youngsters and students to address the needs of the growing technology adoption of tomorrow
- Serve as a micro-factory and provide them with an understanding on manufacturing industry. This can help nurture a pool of creative young human capital which forms the backbone of our creative economy and further contribute strategically to our reindustrialisation policy.

HKPC

Existing Makerspace in HK

- 7 makerspaces
 (in operation or in the process of being setup)
- All makerspace in Hong Kong occupies a floor area of about 20,000 sq. ft in total (each ranging from 600 sq ft to 7000 sq ft)



Weakness of Existing Makerspace in HK

- Limited scope of makers' service by providing only basic tools and machineries
- Limited capabilities on processing different materials and realising complicated design
- Limited capabilities on pilot production for realizing near final product with good functional and aesthetic performances

HKPC°

HKPC Inno Space - Establishment

- HKPC will take the lead to design and build the "HKPC Inno Space" through tendering and manage the Inno Space as its off-site facilities.
- Cooperation with similar facilities managed by local universities and existing makerspace operators will be considered for widening the service scope.

HKPC.

HKPC Inno Space – Site Selection

- Propose locating at Kowloon Bay or Kwun
 Tong industrial area or their vicinity
 - high accessibility by public transport from HKPC building in Kowloon Tong
 - Easy sourcing of raw materials / accessories / components

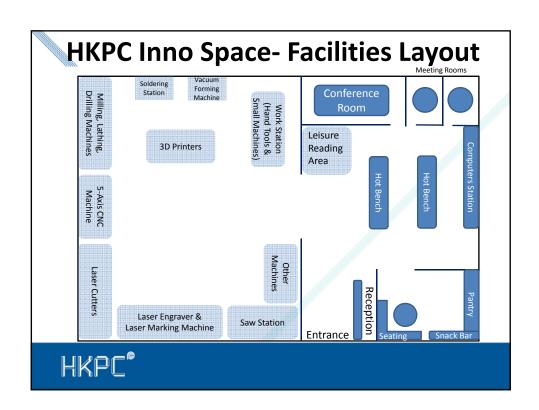
HKPC*

HKPC Inno Space – Capacity of Premises

HKPC envisages the Inno Space will be able to take up 8,000 – 10,000 sq. ft. subject to

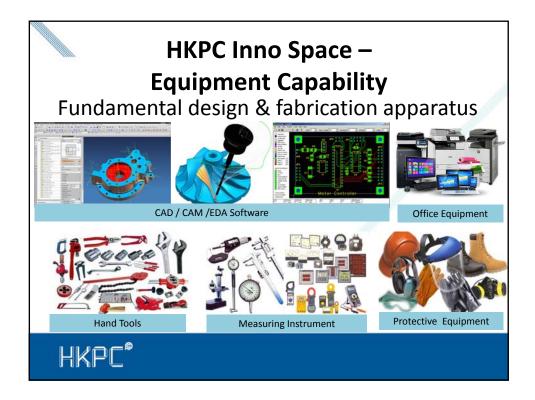
- actual configuration of the premises
- scope of services to be offered
- floor space selected/ provided by the owners of revitalised industrial buildings

HKPC









HKPC Inno Space – Equipment CapabilityLaser cutters, Laser engraver, Laser marking machine

- 3D printers
- Soldering station
- Sewing machine
- Spray painting system
- 5-axis CNC machine
- Milling machine, Lathing machine, Drilling machine
- Vacuum forming machine
- Bench circular saw, band saw & scroll saw
- Sand blasting device, Disc & belt sanding machine
- Strip heater, function generator, oscilloscope, power supply
- CAD/CAM/EDA software
- Office Equipment, etc.

HKPC*

HKPC Inno Space – Accessibility of Facility

Main target users

- Young entrepreneurs, secondary/university students and graduates
- Generally accessible by the public

Proposed Opening Hours

Mon – Fri 12:00-21:00

• Sat – Sun 10:00-19:00

HKPC°

HKPC Inno Space – Business Model

Methods of Charging-

- Membership
- Pay-per-use
- Pay-per-entrance
- Group booking

for events, competitions, workshops & training classes

(patrons may be invited to subsidise the rent of HKPC Inno Space)

HKPC°

HKPC Inno Space- Cost Estimate

- Capital Cost
- Recurrent Cost

Fitting-out of premises \$ 3.1 million HKD

Procuring equipment
(hardware & software)
\$ 7.2 million HKD

Annual operating cost (assuming nil rent) \$ 3.8 million HKD

HKPC.

HKPC Inno Space - Capital Cost

Government funding support for the capital works and procurement of equipment will be required for HKPC to take up a sizable premises of the industrial building to operate the HKPC Inno Space.

(subject to the configuration of premises and conditions of entire building)

- Power loading, Gas & Water supply
- Floor loading, Ceiling
- Lifts & Carparks
- Occupational health & safety, etc.

HKPC°

HKPC Inno Space – Recurrent Cost

- About 5 8 experienced technical officers will be needed for maintaining daily operation, providing direct coaching and maintaining healthy & safe environment for users.
- HKPC will meet the recurrent cost of operating "HKPC Inno Space"

(assume only nominal rent of the premises being charged by some local funding organization or patron. Or else, users will need to pay a higher fee for individual services in order to obtain full recovery of the cost, which may in turn discourage usage by the general public.)

Items	Estimated Cost (HKD)
Overhead Cost (machine maintenance, management fee, electricity, water, internet, etc.):	850,000
Salary for Manpower (6 staff):	2,500,000
Consumable:	400,000
<u>Total:</u>	3,750,000

HKPC°

Terms of Allocation

- Preferably 10 years or more
 vis-à-vis the upfront capital costs involved and
 growing demand for the concerned facilities
- HKPC is prepared to operate the "HKPC Inno Space" on a long term and self-recovery basis

HKPC*

Our Niche

- Provision of diverse equipment and software for design and fabrication of metal, wood, plastic, textile, ceramic, electronic models/ prototypes/ products.
- Experts from HKPC will be available to provide supervision and training to users. Direct coaching will be provided to the users before using the high-end equipment.
- Support the pilot production with advanced manufacturing equipment by HKPC. Services of HKPC Inno Space will be more comprehensive in terms of capability and functionality when comparing with existing ones in the market of Hong Kong.

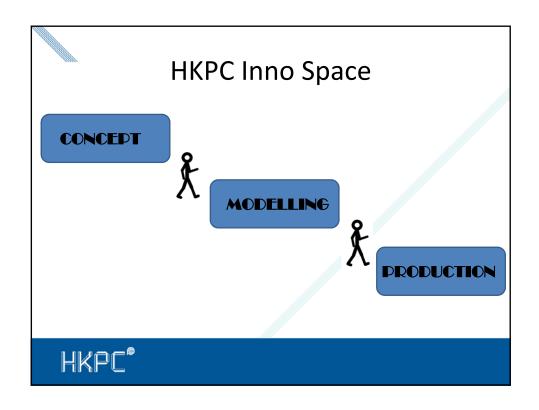
HKPC®

Extending Equipment Capabilities

To supplement the capability of HKPC Inno Space, HKPC will make available our advanced equipment at Kowloon Tong premises to perform different production processes for the makers if necessary

- Injection moulding, Ceramic & metal injection moulding
- · Metal stamping
- 3D scanning, 3D metal printing
- Laminated object manufacturing
- Stereolithography
- Thermal coating & Brazing
- Diffusion bonding
- Laser polishing



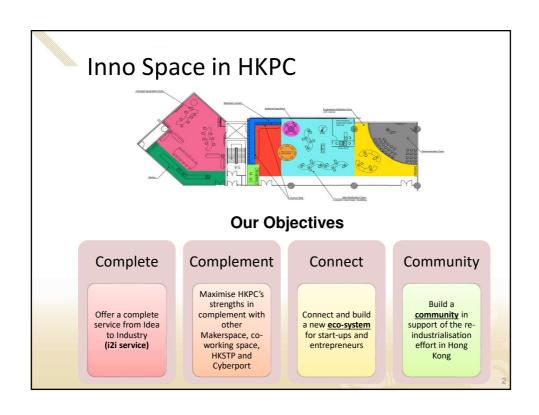




Promoting the Development of Industries and Re-industrialisation

- 64. The Science Park expansion is underway for completion in three years. This will further increase the park's gross floor area to some 400 000 square metres.
- 65. To promote re-industrialisation, the Government is preparing to build a Data Technology Hub and an Advanced Manufacturing Centre in the Tseung Kwan O Industrial Estate, to be completed in three and five years respectively. Furthermore, the Government introduced a Technology Voucher Programme two months ago to subsidise the use of technology by SMEs to improve productivity or facilitate upgrading and transformation.
- 66. Industries enjoying advantages in the process of Hong Kong's re-industrialisation include biotechnology, big data, the Internet of Things, artificial intelligence and smart city. ITB, Invest Hong Kong and the ETOs will actively encourage relevant enterprises to establish their presence in Hong Kong.
- 67. The Government will establish an Inno Space with the Hong Kong Productivity Council to facilitate the sharing of practical technologies and skills to promote the translation of innovative and technological ideas into industrial designs or products, and support a start-up culture and re-industrialisation.
- 68. The Government has set aside sizable sites, including one of over 50 hectares near the Liantang/Heung Yuen Wai Boundary Control Point, for use by the innovation and technology sector (including the development of a science park and industrial estates) and other emerging or traditional industries. We will also recommend the Science Park make best use of the developable sites in Tai Po, Yuen Long and Tseung Kwan O industrial estates.



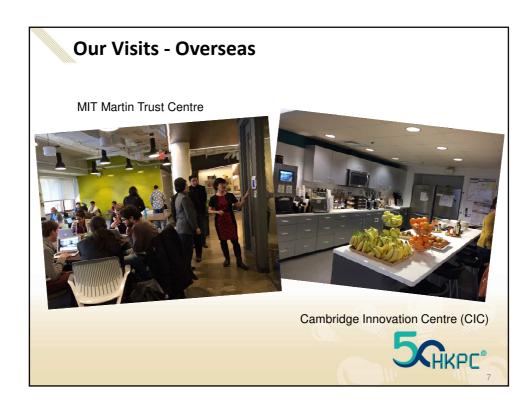




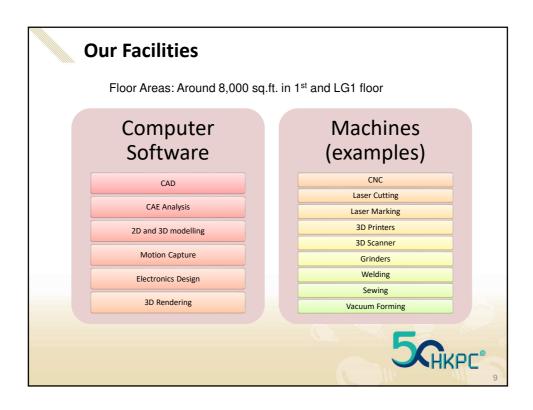












Our Budget	
	Cost (HK\$'000)
1. Manpower	4,440
2. Equipment	7,160
3. Centre Fitting Out	3,100
4. Other Direct Costs	3,060
Total Project Cost:	17,760
	5(HKPC* ₁₀



Service Proposal for "Inno Space"

Prepared by Hong Kong Productivity Council 27 April 2017

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1. Hong Kong – A Fast Growing and Vibrant Start-up Community

In recent years, Hong Kong has become one of the fastest growing start-up hubs in the world with a burgeoning number of co-working spaces and makerspaces. According to the latest figures from the HKSAR Government, the number of start-ups has risen from 1,558 in 2015 to 1,926 - that is a 24% year-on-year increase in 2016. This has become one of the key developments of Hong Kong Industry in its pursue of becoming a high value industry and ultimately achieving re-industrialisation. In many ways, Hong Kong Industry already possesses all the basic ingredients for success in being a start-up hub. We are well established with world-class designer, excellent R&D facilities, a well-proven banking and financial system as a World Financial Centre, well-established manufacturing base in Pearl River Delta, and, efficient supply chain and logistics. Ultimately, the final ingredient of a "make-it-happen" spirit is what makes it tick for Hong Kong.

With the excellent facilities set up and policy support by HKSAR Government to start-ups, many university graduates, SMEs and new entrepreneurs are attracted to join the "start-up bandwagon" in developing their ideas into a reality. In addition, many overseas entrepreneurs and even MNCs are flocking to Hong Kong to join the start-up community in Hong Kong. As a result, Hong Kong has grown a vibrant start-up and entrepreneur community.

2. A Community of Start-ups – the Backbone of Re-industrialisation

Chief Executive proposed undertaking re-industrialisation of Hong Kong in his 2016 policy address as he spoke about diversifying the economic growth engines of Hong Kong.

Indeed, many developed countries such as Germany, the United States and Japan are proposing different strategies to push re-industrialisation. They mostly rely on advanced technologies in their bid to transform the manufacturing sector towards high value-added development.

In a similar manner, the re-industrialisation of Hong Kong is not about bringing back labour-intensive and low skill manufacturing process to Hong Kong. Instead, it is about the development of a high value-added manufacturing industry by making the best use of advanced technologies and integrating them with Hong Kong's practical environment.

To this end, with their advanced technologies and innovation, the growing vibrant community of start-ups and entrepreneur will form the basis of many new high value-added industry sectors in Hong Kong. Eventually, the community will become the backbone of the re-industrialisation effort in Hong Kong.

3. Inno Space – HKPC Positioning, Synergy and Value Preposition

As the start-up and entrepreneur community is becoming more mature, they are faced with a new issue. While they are well supported in their early stage of development with various funding schemes and investment, incubation programs and R&D support, they generally find the support for the later stage of their development cycle lacking. They are yearning for getting technical and advisory support for producing prototype, small batch production and full-scale manufacturing. These are the necessary ingredients for making their ideas to become a reality and eventually a success.

To address the above issue, in the 2017 Policy Address, the Government announces that they will establish an **Inno Space** with the Hong Kong Productivity Council (HKPC) to facilitate the sharing of practical technologies and skills to promote the translation of innovative and technological ideas into industrial designs or products, and support a start-up culture and re-industrialisation.

In order to facilitate the establishment of Inno Space and to provide targeted support to the entrepreneurs and start-up community in Hong Kong, HKPC conducted a survey and visit of a number of major co-working spaces and makerspaces in Hong Kong and Overseas (for details please refer to Appendix III). It is found that start-ups and entrepreneurs are generally faced with the following key issues:

- 1. Lack of space, equipment and facilities to develop a prototype
- 2. Lack of a "focal point" for growing their community
- 3. Lack of business skills
- 4. Lack of small batch production support
- 5. Lack of information on International standard compliance
- 6. Lack of knowledge on and connection to mass production

While there are a number of makerspaces and co-working spaces in Hong Kong, they are generally not adequately equipped and well connected with various facets of Hong Kong Industry to provide all round support to the Hong Kong start-up communities.

In order to address the above issues, HKPC will establish the Inno Space as a one-stop support centre for developing an ecosystem for the entrepreneur and

start-up community in Hong Kong. There are four key objectives for Inno Space:

1. Complete

• To offer a complete service from Idea to Industry (i2i service)

2. Complement

 To maximise HKPC's strengths in complement with other makerspaces, co-working space, HKSTP and Cyberport

3. Connect

• To connect and build a new <u>eco-system</u> for start-ups and entrepreneurs

4. Community

• To facilitate the building of a community in support of the re-industrialisation effort in Hong Kong

For achieving the above objectives, Inno Space will have the following four key elements in its services:

- 1. Equipment and Machinery for developing prototypes
- 2. Business Training for Entrepreneur and Start-ups
- 3. A Focal Point for developing an eco-system for the start-up community
- 4. **Technical Advisory** on patent application, standard compliance, testing, small batch and full production

With the technical know-how, industry knowledge and business network developed by HKPC in its 50 years of operation, Inno Space will be uniquely positioned to provide an all-round support to the growing and vibrant entrepreneur and start-up community in Hong Kong. From the generation of ideas, development of concept, making of a prototype, refinement of the

prototype, compliance testing, patent applications for their ideas, small batch production to introduction of business network, Inno Space supported by HKPC will be offering a complete end-to-end, "Idea to Industry (i2i)" eco-system of services, people and business network.

With the key aim to establish "Connection" and "Collaboration" amongst the start-ups in Hong Kong, Inno Space will enable all its members to share their skills and knowledge, and ultimately putting their innovation into a reality. Inno Space will play a key role in supporting the robust eco-system to spur innovation and nurture start-ups on a sustainable basis, ultimately, help developing an all-round innovative start-up culture into a key driving force of the re-industrialisation of Hong Kong.

4. The Inno Space – Service and Operations

4.1 The Inno Space – The Centre

4.1.1 Floor Space, Location and Facilities

Inno Space will occupy a total floor space of over 8,000 sq. ft. within HKPC Building at Kowloon Tong, housing all the equipment, machinery, tooling, networking areas and demonstration zone on two separate floors in HKPC. It will consist of THREE key functions:

- 1. Inno-Idea
- 2. Inno-Prototype
- 3. Inno-Network

Inno-Idea

Inno-Idea has a floor space of approximately 4,300 sq. ft. and is located on the 1st floor of HKPC building. With HKPC's central geographical location, the Inno Space will be ideally located to serve as a focal point for the entrepreneur

and start-up communities. It will have a maximum capacity of around 100 members simultaneously using the facilities, software tools and packages set up there. Inno-Idea will have the following support and services:

- Concept Generation An area will be set-aside for users to think, brainstorm and develop innovative ideas. Users can make reference to books and magazines and conduct Internet search for inspiration and ideas generation.
- Idea Realisation Users can translate their ideas or concepts into design drawings. Key software for design and industrial modelling will be available.
- 3. Engineering Validation Design verification tools including various computer-aided engineering (CAE) software for structural analysis, animation, process simulation and performance evaluation are available for members to evaluate their designs before making prototypes. Fitting in with the development in creative industry, there are also facilities for 3D scanning, robotics, motion capturing and virtual reality (VR) / augmented reality (AR) application development.
- 4. **Idea Demonstration** Users can make use of Inno-Idea for publicity events like seminars, sharing talks, product dissemination and demonstration. Lockers are available for users who need to keep their drawings or samples for later use. It is estimated that the Inno-Idea can concurrently accommodate over a hundred users.
- 5. Work and Rest A pantry where users can make light refreshment, drinks and coffees using the provided kitchen appliances.

Inno-Prototype

On LG1 floor, Inno Space will house the Inno-Prototype where all the tools, machinery and equipment, both mechanical and electronics, for helping start-ups and entrepreneurs to develop functional prototypes. It will occupy a floor space of around 3,000 sq. ft. The Inno-Prototype is designed for model making and prototype development. It is composed of various small workshops, tailoring for different processing methods. Some key tools, machinery and equipment are:

- 1. 3D printing machines
- 2. Cut & Sew
- 3. Metal works Casting, Laser Cutting and Machining
- 4. Wood Works
- 5. Electronic Fabrication
- 6. Crafting Laser Processing, Spraying, Welding, Sanding and Blasting
- 7. Storage There will also be a storage area for users to keep their semi-finished works during the fabrication process.

It is estimated that the Inno-Prototype can concurrently accommodate for a maximum of around 50 users.

Inno-Network

Inno-Network will be set up at the LG1 of the HKPC Building and it will provide a comfortable and relaxing area for users to take a short break, relax, talk and meet people. The Inno-Network has an area of around 900 sq. ft., featuring sofas and vending machines. Events such as social gathering or cocktail reception can be held with a maximum of around 40 participants.

Please refer to the tentative floor plans as shown in Appendix I.

4.1.2 Equipment

The Inno Space will be well equipped with various kinds of machines and tools for idea realization. Computer systems with software for 2D or 3D modelling, programming and design evaluation will be set up. Desktop or lab-scale machineries, basic hand-tools, raw materials and electronic components will be available for making prototypes with metals, plastics, wood, fabric and electronics. A tentative list of equipment is shown in Appendix II.

4.1.3 Marketing and Promotion

The Inno Space will make use of various digital social media (such as YouTube, Facebook, Twitter, We Chat, etc.) to broaden our network and awareness in the maker, start-up and entrepreneur communities. Promotional videos, attractive highlights of events and snapshots will be posted on the Internet. A dedicated website and smartphone app will be established for promoting the objectives and functions of the Inno Space and an introduction of the equipment and facilities available. All events organized by the Inno Space will also be updated regularly.

Media interviews will be arranged for selected success stories to show how Inno Space help individual members on their road to success. The members can share their experiences and lesson learnt so that it will give good encouragement to upcoming entrepreneurs and start-ups on one hand, and promote Inno Space on the other.

Regular group visits and tours will be set up for potential users of Inno Space. Target groups will include the secondary and university students, start-up and entrepreneur communities from other Maker Club, makerspaces, co-working spaces and organisations such as HKSTP, the Cyberport, trade associations etc.

Separately, as Grand Opening of Inno Space is targeted to be before October 2017, a ceremony will be organized to mark this special occasion. Guests from the Government, local tertiary institution and secondary schools, various industrial sectors and commercial organisations will be invited. Media will also be invited on this occasion in order to maximise the exposure of Inno Space.

4.1.4 Networking Events and Activities

Building a community of start-ups, entrepreneurs and makers with the Inno Space is a key task for the success of Inno Space. As such, Inno Space will create a space for people to interact, brainstorm and share information. Apart from the provision of "spaces" and "equipment" to users, a number of activities will be organised to create an open and sharing environment for users with common interests. Casual sharing talks with specific themes will be organized regularly. TED (Technology, Entertainment, Design) talks on different categories, e.g. technology management, entrepreneurship, new technology development, etc., will also be organised. Overseas renowned experts will be invited for delivering training and sharing talks in order to wake up the creativity of young entrepreneurs. Business matching or networking sessions will also be arranged to link up our members with different industry/trade associations.

There will also be technical seminars aiming at introduction of new technologies and new applications for our daily lives. Technology demonstrations will be organized to provide an opportunity for the members to display their innovative ideas or products.

4.1.5 Business and Entrepreneurship Training

Inno Space will organise a number of business and entrepreneurship related training courses on a cost recovery basis. The training courses will be open to both members and non-members to join by paying fees. However, members will be given a priority and discount in participating in these training courses. The training courses will be organised in association with leading business schools, universities and institutions locally and from overseas. It is aimed to build up the business skills of members of Inno Space, start-ups and entrepreneurs in areas such as marketing, pitching skills, innovation management, IP and patent management, financial etc.

4.1.6 Operating Hours

In order to cater for the usage patterns for all parties, particularly the makers, the proposed opening hours will be 9:00-23:00 from Monday to Friday and 09:00 - 21:00 on Saturday and Sunday, and close on public holidays. The opening hours will be regularly reviewed taking into account the usage pattern.

4.1.7 Membership Scheme

The Inno Space will adopt a membership system. Users are required to register as a member before they can enjoy the facilities in the Inno Space. There will be two tiers of membership: General and Advanced.

General Membership – it is designed for all users who would like to meet with different people, socialize and collaborate for idea creation and design generation. They can freely enjoy the facilities provided at the Inno-Idea and Inno-Network such as books and magazines, computer software for designs, 3D scanning and printing, motion capturing, etc. but they will NOT be allowed to use facilities in Inno-Prototype. Free admission to the events organized by the Inno Space will also be provided. A nominal membership fee will be

charged. Membership fee of general membership for full-time secondary/university students will be waived.

Advanced Membership – For users wishing to use the equipment and facilities at the Inno-Prototype will need to join for the Advanced Membership. Safety and Equipment Training will be provided to advanced members before they are eligible to use the equipment, machinery and tools at the Inno-Prototype. Membership fee for advanced membership will be higher than general membership. A generous discount will be offered to full-time university students.

A summary of the respective privileges of membership level is listed in the table below:

	Advanced	General	Non
	Members	Members	Members
Admission to Inno-Idea	√	✓	×
Admission to	✓	✓	×
Inno-Network			
Admission to	✓	×	×
Inno-Prototype			
Casual sharing talks	✓	✓	×
TED talks	✓	✓	×
Sharing talks by renowned experts	✓	✓	×
Business matching or networking sessions	✓	✓	×
Regular group visits and tours	✓	✓	✓
Open Day with guided tours	✓	✓	✓
Technical seminars	✓	✓	√
Technology demonstration	✓	✓	✓
Business and entrepreneurship training	✓	✓	√

Eligibility for Membership

Advanced Member – People aged from 18 or above are eligible to register for membership. They will be allowed to use all the facilities, tools, and equipment in Inno Space, subject to availability and the completion of necessary usage and safety training.

General Member – People aged from 16 or above are eligible. This would provide opportunities to senior secondary school students to learn and develop their interests in creativity, innovation and R&D. They will be allowed to join all the free events and TED Talk, as well as use all the facilities, tools, and equipment in Inno-Idea and Inno-Network areas subject to availability and the completion of necessary usage and safety training. No person under the age of 18 will be allowed to operate machinery and equipment in Inno-Prototype area.

Check-in & Check-out System

After the membership registration, all members are eligible to visiting the Inno Space (Inno-Idea) by registering at the Reception Counter at the Inno-Idea. However, for advanced members who want to use the equipment and facilities at the Inno-Prototype, they have to check-in and check-out for safety considerations. To avoid disappointment, members are encouraged to make an appointment for machinery operation. This establishes a mechanism in limiting the number of users at any given moment such that we can provide sufficient attention and support to them.

Eligibility for Participation in Public Events

All are welcomed to come to our public events such as open days, seminars, talks, exhibitions, demonstration sessions to spark their interest in innovation

and technology. These events will be open to both members and non-members. Depending on the nature of the events, fees may apply on a cost recovery basis. Reservation may be required in order to manage the number of participants joining these events but members will be given a priority and discount in participating in these events. Safety briefings will be held at the beginning of events to inform participants the location of emergency exits and the escape routes.

4.1.8 Safety and Security

Safety in Inno Space is of paramount importance. The Inno Space will follow the Health and Safety policy of the HKPC, conforming to OHSAS18000 International Safety standard. Some key elements of the safety measures are as follows:

- 1. **Safety briefings** will be held at the beginning of each public event to inform participants the location of emergency exits and the escape routes.
- 2. **Basic Safety Training** will be provided to all members of the Inno Space on the fundamental safety precautionary measures. The training will include the potential hazards, location of safety equipment, location of the emergency exits and the escape routes. Completion of the basic safety training together with signing of Form of Undertaking would be a mandatory requirement for a successful membership registration.
- 3. **Machinery Operation and Safety Training** Members who wish to use the machines at the Inno-Prototype must complete a Machine Operation and Safety Training. Upon completion, members have to go through a capability test to demonstrate their capability in operating those machines.
- 4. Within Inno-Prototype, a "never work alone" policy will be adopted.

 All machines can only be used within the opening hours of the

Inno-Prototype with its technical staff present. A 24-hour CCTV monitoring system will be also set up at the Inno Space (Inno-Idea and Inno-Prototype).

4.1.9 Business Model

The Inno Space will adopt a member-based business model and a pay-per-use charging system for member use of all the facilities, tools, machinery and equipment in Inno Space. The membership fee will be set on a cost recovery basis and by making reference to the fees charged by other makerspaces in HK. For the first two years of operation when a part of the centre operational cost will be covered by Government subvention, a discount will be applied to the membership fees as a means to attract a higher number of members in its initial operation. The rates will be given to both the Business Development Committee (BDC) and Finance Committee (FC) of HKPC for information and approval respectively.

Members who wish to make prototypes on their own with the equipment and facilities at the Inno-Prototype will be charged according to the time used. As we have to ensure that tools and equipment are used on an equitable basis, members will be allotted a limit on their use of each tool and equipment. Exceeding the set limit will accord the member a lower priority for the use of that piece of equipment.

Members can purchase raw materials (such as 3D printing filaments, metal powders, blocks and sheets, plastic sheets, electronic components, fabrics, etc.) from the Inno Space for making their own prototypes. Lockers will be available for rent by members who wish to store their works or prototypes at the Inno Space.

All net incomes from membership fee and other fee-charging items will be kept as reserves of the Inno Space for supporting the continuous operation of the Inno Space after the first two-year subvention period.

4.1.10 Collaboration and Synergy with Other Organizations

The set up of Inno Space is not aimed at competing with any existing makerspaces, co-working spaces and other set ups in Hong Kong. It is the aim of Inno Space to complement other facilities by using some of the equipment others do not have, giving consultancy and advices with the knowledge HKPC built up throughout the years, and, providing business networks from HKPC with the broad manufacturing and industry sectors. Inno Space will actively seek collaboration with other organisations such as the existing commercial co-working spaces and makerspaces, the universities in Hong Kong, R&D Centres, the Hong Kong Science and Technology Park, the Cyberport, trade associations and professional institutions, etc.

In order to strengthen the cooperation between existing "Makerspaces" in Hong Kong and to create a synergy effect by leveraging the strengths of different co-working spaces, makerspaces and sharing resources, the Inno Space will work on establishing a reciprocal membership scheme with other makerspaces in Hong Kong. Reciprocal members will receive a discount when joining Inno Space membership and vice versa. Details of the reciprocal membership scheme will be worked out in the ensuing months. In addition, where applicable, Inno Space will explore other collaborative activities such as business and enquiry referral, sharing sessions, joint events and functions, etc.

4.2 Project Timeline

	Milestone Completion Date	Work Progress
1 st Project	30/09/2017	- Renovation work of the Inno Space –
Milestone:		1 st Phase
(6 th month from		- Purchase of equipment
commencement)		- Preparation of opening ceremony of
		the Inno Space
		- Establishment of the Inno Space website
		- Membership-drive Program – 1 st round
Openin	g of the Inno S	pace before end of October 2017
2 nd Project	31/03/2018	- Membership-drive Program – 2 nd
Milestone:		round
(12 th month from		- Promotion events
commencement)		
3 rd Project	30/09/2018	- 1 st Anniversary Event
Milestone:		- Membership-drive Program - 3 rd
(18 th month from		round
commencement)		- Promotion events
4 th Project	31/03/2019	- Membership-drive Program – 4 th
Milestone:		round
(24 th month from		- Promotion events
commencement)		- Review of the operation mode of the
		Inno Space

From 01/04/2019 onwards, the Inno Space will be operated by HKPC on a self-recovery basis.

Equipment

The purchase of the equipment will be carried out in phases with most equipment purchased in the 1st milestone period in order for adequate support to be ready for the opening of the Inno Space. However, in case some equipment cannot be delivered in the 1st milestone period, we will continue the procurement work in the 2nd milestone period.

Membership-drive program

The Inno Space will carry out programs that aim at attracting potential users of the Inno Space to become our members. We will, from time to time, approach relevant groups such as members of other makerspaces, university and senior secondary students, professional bodies, etc. In the program, we will carry out activities such as regular group visits and tours for targeted groups.

Promotional events

The Inno Space will organise a number of events such as open days, seminars, talks, exhibitions, and demonstration sessions to help promote Inno Space and also build up a community of start-ups and to spur innovation and nurture start-ups on a sustainable basis. While most events will be technically or innovation oriented, some events may involve a bit of fun activities for in order to build a team spirit for the younger generations using the Space.

4.3 Budget

The budget set out in this section is for:

- 1. The set up and renovation cost of the Inno Space, the purchase of equipment and facilities at the Inno Space, the establishment of the Inno Space website and smartphone app, and the promotional events.
- 2. The recurrent cost of the Inno Space for the first two years of operation will also be budgeted including direct manpower cost of the Inno Space and the monthly overhead cost including the standard internal management fee charged by HKPC per unit floor space.
- 3. There will also be budgets for other office/workshop materials and consumables and for software/hardware/website maintenance.

The table below lists all the expenditure items to be incurred in this project. Summary:

		Cost (HK\$'000)
(i)	Manpower	4,440
(ii)	Equipment	7,160
(iii)	Other Direct Costs	6,160
	Total Project Costs	17,760
	Total Project Cost:	(A)+(B)+(C)

(i) Manpower

Position/Rank	No.	Duration	Monthly rate	Total	Justifications
	Required	(months)	or equivalent	(HK\$'000)	
			(HK\$'000)		
Centre	1	Around 23	62.5	1,440	1
Manager		months			
Centre	1	Around 23	26.0	600	2
Officer		months			
Technical	4	Around 23	26.0	2,400	3
Officer		months			
			Sub-total	4,440	
			(A):		

(ii) Equipment

	Quantity	Unit Cost	Total	Justifications
Equipment to be used		(HK\$'000)	(HK\$'000)	
Equipment	N/A	7,160	7,160	4
		Sub-total (B):	7,160	

(iii) Other Cost

Item	Quantity	Unit Cost	Total	Justifications
		(HK\$'000)	(HK\$'000)	
Renovation and Infrastructure	N/A	3,100	3,100	5
Establishment of Website	N/A	50	50	6
Venue Management Fee	20 months	116	2,320	7
Software/Hardware /Website	N/A	300	300	8
Maintenance				
Consumables & office	2	195	390	9
equipment				
		Sub-total	6,160	
		(C):		

Justifications:

¹ A centre manager at HKPC Consultant rank (Grade 5) will be responsible for the overall operation of the Inno Space including daily operations, manpower and resources planning. He/She has to ensure that the project milestones are met. He/She also has to develop a marketing plan for the Inno Space in order to maximize the number of beneficiaries. He/She will also be responsible for actively liaising with other makerspaces and co-working spaces with the purpose of building a community of start-ups and entrepreneurs.

- ² A centre officer at HKPC Associate Consultant rank (Grade 4) will be responsible for assisting the centre manager in executing the marketing plan and maintaining the daily operation of the Inno Space. He/She is also required to provide administrative and logistic support to the Inno Space.
- ³ Four technical officers (Grade 3 or 4) will be responsible for providing technical support to users of the Inno Space in operating the computer software, facilities, tools and equipment. They have to maintain the proper function of all the software and hardware as well as to ensure safety. They are also required to provide administrative and logistic support to the Inno Space.
- ⁴ Please refer to Appendix II for a detailed list of equipment.
- ⁵ This budget item is for the infrastructure set up and renovation for the Inno Space. The renovation and fitting out works will include centre interior design, demolition works of the existing office and workshop area, ceiling (false ceiling) and flooring works, electric sockets outlet, pipework and ports for telephone and network, general requirements of building service (lighting;

fire service installations, air conditioning & ventilation; emergency public address), wiring works, water piping, paint works, wood works, insurance, construction waste removal fee, etc. However, since the layout of the interior design of the Inno Space is not yet finalised, the figure presented in this proposal is for budgetary purpose.

⁶ This budget item is for the establishment of the Inno Space website.

⁷ This budget item is for the standard venue management fee of the HKPC Building, which includes air conditioning, electricity, water, compressed air, telephone & Internet, cleaning service, security, etc. In first four months during the renovation and fitting phase, Inno Space will be exempted for management fee. The standard venue management fee is the same prevailing rate charged for other ITC R&D centres such as HKRITA and APAS.

⁸ This budget item is for hardware/software/website maintenance for the Inno Space. It is expected that software/website maintenance will only be required one year after the purchase/establishment.

⁹ This budget item is for other office equipment and office/workshop materials and consumables such as stationery, raw materials for prototyping, kitchen appliances at the pantry, etc.

4.4 In-kind support from HKPC

Support from Management, Technical Advisory and Marketing
Senior management of HKPC will oversee the strategic direction, functions and

operations of the Inno Space and support its business management and marketing strategy. The HKPC team will provide advices on the marketing plan and support on the marketing events of the Inno Space, including the Opening Ceremony, the design and content of the Inno Space website, etc. The HKPC team will also assist the procurement of equipment by identifying the technical specifications of the equipment and help the technical officers of the Inno Space to acquire the technical knowledge in related processing and machine operation. Experts from HKPC will be available to provide supervision and training to the users on those basic tools and desktop/lab-scale machinery installed at the Inno Space. They will also provide preliminary advisory service for FREE to members of the Inno Space who come across difficulties during their development work.

Support on advanced machinery and equipment

To supplement the capabilities of the Inno Space, HKPC will also make available various advanced machinery, equipment and facilities at the HKPC Building for different prototype making and pilot production processes such as injection moulding, metal stamping, 3D printing, stereo-lithography, thermal coating & brazing, diffusion bonding, metal/ceramic injection moulding, ceramic injection moulding, laser polishing, PCB assembling, materials analysis and testing, etc., for the makers if necessary. For these advanced machinery of HKPC, members of Inno Space will not be allowed to operate by themselves because of higher safety risks. Those advanced machinery are made available for use but must be operated by HKPC staff upon request and will be charged on the usage under specified standard rates.

Support on training courses and events

HKPC will provide discounts to members of the Inno Space for participating in the training, seminars, conferences and study missions organized by HKPC. This is to encourage members to acquire the latest market information and advanced technology development. Participating in HKPC events also provides them with chances to build up their networks in the business world.

4.5 Governance and Performance Monitoring

While the management of Inno Space will report to the Senior Management of HKPC, the Business Development Committee (BDC) of HKPC will serve as a Steering Committee of Inno Space providing steering and direction to the management of Inno Space.

On a half-yearly basis, the management will produce progress reports on the centre's activities and achievements to BDC for comment and to the Government for review within one month after each half-year period. The report will contain key information on Inno Space such as its utilisation, visitor counts, milestones achieved, major collaboration with other parties, a summary of the activities held as well as the financial report. Members will be invited to give comment on the report and provide suggestions on how the Inno Space will create better impact.

On a yearly basis, the management will give an annual plan on Inno Space to BDC for approval and comment. The annual plan will include the key focuses of the Inno Space for the year, its major initiatives, resource requirements, marketing and manpower plan.

Any unspent budget over the initial two years would have to be returned to the Government.

4.6 Way Forward

In view of the amount of upfront capital costs involved and the growing

demand for concerned facilities, it is estimated that the Inno Space will serve

the community for around 10 years until substantial revamping is required.

After the first two years of operation with government funding, HKPC is

prepared to run the Inno Space on a long-term and self-recovery basis.

In order to ensure a smooth operation of the Inno Space after the first two years

of government subvention, HKPC will conduct a review on the operation

model of the Inno Space in order to evaluate the financial position of the Inno

Space and adjust the service scope of the Inno Space if necessary. This is to

ensure that HKPC can maintain a healthy development of the Inno Space in the

coming years without additional funding support from the Government.

Appendices 4.7

Appendix I: Tentative Floor Plans of the Inno Space

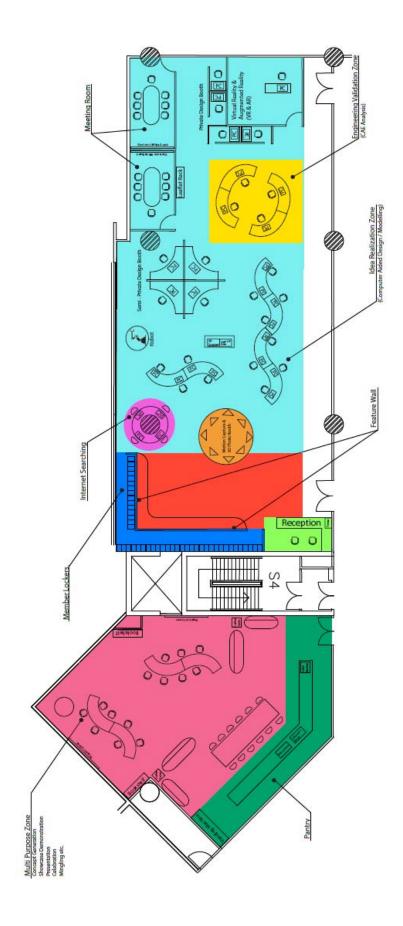
Appendix II: Equipment List

Appendix III: Market Study

26

- 663 -

Appendix I - 1 InnoSpace - Main Centre (Detail) Approximately 4,360 Sqft





- 665 -



Corne Room ¥E > 3D Printing One XX Robotics One 0 HKPC Gallery B038 0 InnoSpace - Networking Zone & Prototype Centre (Approximately 3,920 Sqft) 8.5 Switz Roos

30

Appendix I - 4 InnoSpace - Networking Zone & Prototype Centre (Location)

Appendix II – Equipment List

Machine/Machining System	Unit Price	Unit	Total Price
3D Scanner	HK\$200,000	1 EA	HK\$200,000
		Sub-Total	HK\$200,000
3D Photo Booth Infrastructure	HK\$200,000	1 SET	HK\$200,000
		Sub-Total	HK\$200,000
3D Photo Cameras	HK\$10,000	15 SET	HK\$150,000
		Sub-Total	HK\$150,000
3D Photo Connection System	HK\$150,000	1 SET	HK\$150,000
		Sub-Total	HK\$150,000
Motion Capture Cameras	HK\$2,000	5 SET	HK\$10,000
		Sub-Total	HK\$10,000
VR Headsets (Oculus Rift + HTC Vive)	HK\$18,000	2 SET	HK\$36,000
		Sub-Total	HK\$36,000
High Power Laser Source for Sintering	HK\$200,000	1 EA	HK\$200,000
		Sub-Total	HK\$200,000
High Precision 3D Printing X-Y Table	HK\$200,000	1 SET	HK\$200,000
A-1 Table		Sub-Total	HK\$200,000
3D Composite Printing Control System	HK\$200,000	1 SET	HK\$200,000
3D Composite 1 Thiring Control System	11K\$200,000	Sub-Total	HK\$200,000
Multi-Colour 3D Printing Heads	HK\$200,000	1 SET	HK\$200,000
Mutti-Colour 3D 1 Thitting Treats	11K\$200,000	Sub-Total	HK\$200,000
Multi-Colour 3D Printing Control System	HK\$200,000	1 SET	HK\$200,000
Convict System		Sub-Total	HK\$200,000
3D Printing Safety Equipment & Other Mechanical Frame & Structure	HK\$200,000	1 LOT	HK\$200,000
		Sub-Total	HK\$200,000
Robotic Arm	HK\$180,000	Sub-Total 1 EA	HK\$200,000 HK\$180,000
Robotic Arm	HK\$180,000		,
Robotic Arm Disc & Belt Sanding Machine	HK\$180,000 HK\$5,000	1 EA	HK\$180,000
		1 EA Sub-Total	HK\$180,000 HK\$180,000
		1 EA Sub-Total 1 EA	HK\$180,000 HK\$180,000 HK\$5,000

Spraying System	HK\$150,000	1 SET	HK\$150,000
		Sub-Total	HK\$150,000
Grinding Machine	HK\$54,500	1 EA	HK\$54,500
		Sub-Total	HK\$54,500
Welding Machine	HK\$70,000	1 EA	HK\$70,000
		Sub-Total	HK\$70,000
Laboratory Muffle Furnace	HK\$104,000	1 EA	HK\$104,000
		Sub-Total	HK\$104,000
Sewing Machines	HK\$8,000	3 SET	HK\$24,000
		Sub-Total	HK\$24,000
Laser Head for Metal Cutting	HK\$200,000	1 SET	HK\$200,000
		Sub-Total	HK\$200,000
High Speed X-Y Table	HK\$200,000	1 SET	HK\$200,000
		Sub-Total	HK\$200,000
Mechanical Protection System	HK\$200,000	1 SET	HK\$200,000
		Sub-Total	HK\$200,000
Laser Optical System	HK\$200,000	1 EA	HK\$200,000
		Sub-Total	HK\$200,000
Laser Engraving & Marking Machine	HK\$170,000	1 EA	HK\$170,000
		Sub-Total	HK\$170,000
Laser Cutting Machine (Plastic)	HK\$200,000	1 EA	HK\$200,000
		Sub-Total	HK\$200,000
Desktop CNC Machine	HK\$200,000	1 EA	HK\$200,000
		Sub-Total	HK\$200,000
Milling Machine	HK\$150,000	1 EA	HK\$150,000
		Sub-Total	HK\$150,000
Lathing Machine	HK\$150,000	1 EA	HK\$150,000
		Sub-Total	HK\$150,000
Drilling Machine	HK\$30,000	1 EA	HK\$30,000
		Sub-Total	HK\$30,000
Saw Machines (Circular, Band & Scroll)	HK\$12,000	3 EA	HK\$36,000
(Circular, Danu & Scron)		Sub-Total	HK\$36,000
Vacuum Forming	HK\$105,000	1 EA	HK\$105,000
vacuum rorming	11120103,000	Sub-Total	HK\$105,000
		Sub-Total	11129103,000

Electronic Kits (Oscilloscope, Power Supply & Soldering Stations)	HK\$40,000	5 SET	HK\$200,000
		Sub-Total	HK\$200,000
Signal Generators	HK\$18,000	2 EA	HK\$36,000
		Sub-Total	HK\$36,000
CAD Software – SolidWorks	HK\$200,000	1 SET	HK\$200,000
(Parametric Design)	111κψ200,000	1 SE1	πτψ200,000
		Sub-Total	HK\$200,000
CAD Software - SolidThinking Evolve	HK\$50,000	4 SET	HK\$200,000
		Sub-Total	HK\$200,000
CAD Software - Siemens NX (Freeform Design)	HK\$200,000	1 SET	HK\$200,000
		Sub-Total	HK\$200,000
CAD Software - Siemens NX (Geometric Design)	HK\$200,000	1 SET	HK\$200,000
		Sub-Total	HK\$200,000
CAE Analysis Software (Multiphysics)	HK\$200,000	1 SET	HK\$200,000
		Sub-Total	HK\$200,000
CAE Analysis Software (Structures)	HK\$200,000	1 SET	HK\$200,000
		Sub-Total	HK\$200,000
Electronic Design Software (Electronic)	HK\$200,000	1 SET	HK\$200,000
		Sub-Total	HK\$200,000
Programming / coding Software	HK\$200,000	1 SET	HK\$200,000
		Sub-Total	HK\$200,000
CAM software - Siemens Simscenter	HK\$200,000	1 SET	HK\$200,000
		Sub-Total	HK\$200,000
3D Rendering Software - Keyshot	HK\$25,000	4 SET	HK\$100,000
		Sub-Total	HK\$100,000
Computers	HK\$13,000	15 EA	HK\$195,000
	****	Sub-Total	HK\$195,000
Monitors	HK\$1,300	15 EA	HK\$19,500
		Sub-Total	HK\$19,500

Safety Items, Measuring Instruments & Other Hand Tools	HK\$200,000	1 LOT	HK\$200,000
		Sub-Total	HK\$200,000
Measuring Scope	HK\$200,000	1 SET	HK\$200,000
		Sub-Total	HK\$200,000
		Total	HK\$7,160,000

Budget HK\$7,160,000

Appendix III: Market Research

A market research through desktop search and site visits was conducted to have a better understanding on the latest development of "Makerspaces" in Hong Kong and around the world. A summary is listed in the table below:

Table 1: Comparison of Various "Makerspaces" in Hong Kong and around the World

Name	Туре	Location	Manpower Operation		Target Customer Facilities		Space	Equipment and Machinery	Business Model /	Safety and Security
				Mode					Charging Model	
Smart-Space	Co-working spaces	Cyberport,	12	Tenant	Local start-ups	- Internet access	Smart-Space3F:	N:I	Subscription fee of:	Smart-Space offers 24
	for local start-ups	Hong Kong			and overseas	- Open Wi-Fi	27,000 sq. ft.		1. Office room: the	hours access from
	and overseas				companies which	- Complimentary	(There are other		fee is subject to	Monday to Sunday
	companies				are looking for	subscription to the	Smart-Space at		tenant's size	with front desk
					scaling their	Corporate Subscription the Cyberport,	the Cyberport,		2. Workstation:	operator managing
					business in	Programme to	including		HK\$1,500 per month	HK\$1,500 per month use of all the facilities
					Mainland China	access Mainland China	Smart-Space 1,		3. Flexi-space:	provided in
					and other parts of market	market	Smart-Space 2,		HK\$800 per month	Smart-Space from
					Asia	- Cyberport Cloud	Smart-Sapce 3C,			9:00am – 1:00pm and
						Development Platform	FinTech and			2:00pm – 5:30pm.
						- Cyberport IP	FinTech-1)			Users are required to
						Telephony (for Room				present their
						setting only)				registered Octopus
						- 24-hour access				Card at the entrance
						- Complimentary use of				of Smart-Space for
						meeting room facilities				access to the
						- Complimentary use of				Premises.
						fitness centre				
						- Enjoy a corporate rate				
						at Le Meridian				
						Cyberport Hotel				

Name	Туре	Location	Manpower Operation		Target Customer Facilities		Space	Equipment and Machinery	Business Model /	Safety and Security
			1	Mode					Charging Model	
Hong Kong	Exhibition and	Cyberport,	8	Consultancy	Consultancy Internet of Things - Showroom		6,500 sq. ft.	I!N	Rental of facilities	Follow the general
IngDan	event space for	Hong Kong		service ((IoT)	- Venue for workshops,			and consultancy	safety and security
Experience	showcasing the			<u> </u>	entrepreneurs	workshops, events or			service fee	system of Cyberport
Centre	latest hardware				and	forums on product				for general tenants
	innovations to the			V)	small and	releases and exchanging				
	public				medium-sized	ideas				
)	enterprises					
Soft Landing	Co-working spaces	Hong Kong	- 4	Tenant	Entrepreneurs -	- Office workstation	No information	Nil	Renting premises	Follow the general
Centre by		Science &			(Technology	with recreational	available			safety and security
HKSTP		Technology		<u></u>	Business),	facilities				system of HKSTP for
		Park,			International -	- Meeting rooms				general tenants
		Shatin,		<u> </u>	Technologists -	- Printers &				
		Hong Kong			(Technology	photocopiers				
				l	Transfer)					
Robotic	Machine shop	Hong Kong	2	Membership 5	Membership Students (18+),	- Metal, Wood & Plastic	1000 sq. ft.	- High-power Laser Cutter	1. Day: \$ 25	Liability Release Form,
Garage by		Science &		<u> </u>	Company/	Workshop		(Plastic)	2. Week: \$ 100,	Mandatory Safety
HKSTP		Technology		<u></u>	Entrepreneurs,	- Basic Electronics		- 4-axis CNC Milling Machine	3. 1-Month \$ 250,	Courses, Machinery
		Park,		<u>+</u>	Hobbyists	Workshop		- Manual Drill Press	4. 3-Month \$ 600,	Training Courses
		Shatin,						- Manual Lathing Machine	5. 6-Month \$ 1000,	
		Hong Kong						- Robot (Baxter & UR5)	6. Concession for	
								- 3D Printer	Full-Time Students	
								- Basic Hand Tools		

Name	Туре	Location	Manpower Operation		Target Customer Facilities		Space	Equipment and Machinery	Business Model /	Safety and Security
				Mode					Charging Model	
Lion Rock by	Lion Rock by Co-working spaces	Kowloon	2	Incubation	HKSTP Incubation	HKSTP Incubation - Multi-purpose Activity 10,000 sq. ft.		I!N	Serve tenants of	24 hours access from
HKSTP		Tong, Hong		Program	Program	Room			HKSTP only	Monday to Sunday
		Kong		Enrolment	Members	- Conference Room				with front desk
					-	- Lounge Area				operator managing
					*	- Lockers				use of all the facilities
					*	- 3D Printer				
MakerBay	Machine shop +	Yau Tong,	2	Membership Family, Adult		- Metal, Wood, Textile	6,500 sq. ft.	- 3D Printer (Plastic)	1. Day:\$ 200,	Induction Classes for:
	office spaces	Hong Kong		& Tenant ((18+), Teens	& Electronics Workshop		- 4-axis CNC Milling Machine	2. Week: \$ 750,	Power Tools, CNC
					(16+), Young	- Chemistry & Biology		- 100 W Laser Cutter	3. 1-Month \$ 1500,	Milling, Laser Cut,
				•	Teens (12+), Kids	Lab		Electronic Prototyping	4. Concession for	Metal Work & Wood
					(+9)	- Work Studio		- Soldering Station	Full-Time Students	Work
					Local start-ups	- Meeting Room		- Fume Extractor		
				,3	and small	- Benches		- PCB Oven &Reflow Oven		
					enterprises	- Café		- Wind Turbine & Testing,		
					-	- Tools Shop		Wood Work		
								- Miter Saw with Laser		
								- Band Saw & Table Saw		
								- Nail Gun		
								Power Tools		
								- Circular Saw & Jig Saw		
								- Impact Drive		
								- Angle Grinder		

ŕ	Туре	Location	Location Manpower Operation		Target Customer Facilities	Space	Equipment and Machinery Business Model / Safety and Security	Business Model /	Safety and Security	
				Mode				Charging Model		
							- Water jet Pressure Washer,			
							- Demolition Hammer			
							Chemistry & Biology			
							- Microscope (40x - 1000x),			
							- Hot plate with Programmed			
							Timer,			
							- Microcentrifuge (4000rpm)			
							- Incubator (30C-40C)			

Туре	Location	Manpower Operation		Target Customer	Facilities	Space	Equipment and Machinery	Business Model /	Safety and Security	
			Mode					Charging Model		
Dim Sum Lab non-profit,	Sheung	No I	Membership (Membership open to public	- discussion area	1,000 sq. ft.	- CNC machine -desktop	1. full member:	No special measures	
community-based	Wan, Hong employed	employed		with screening by	with screening by - sofa, chair, coffee	•	- drill press	\$6,000 per year		
Makerspace that	Kong	staff	_ + _	the board	table	•	- band saw & scroll saw	2. sponsored		
bring creative artists					- projector and screen	•	- mini mill	member: free		
and specialists						•	- laser cutter	(especially for		
						•	- 3D Printer	students)		
						•	- soldering station			
						•	- bench power supply			
						•	- hand tools			
						•	- computer with free and			
						_	open source software			

Name	Туре	Location	Manpower Operation	Operation	Target Customer Facilities		Space	Equipment and Machinery	Business Model /	Safety and Security
				Mode					Charging Model	
MIT -	Project Space	Kowloon	4	Program	University	Chair, sofa, projector,	5,000 sq. ft.	Light-duty machine such as	Education	No information
Innovation		Tong, Hong		Enrolment	students from	screen and pantry		drilling machine, CNC	programmes	available
Node		Kong			MIT and Hong			machine		
		(Pending)			Kong					
					(Engineering,					
					Science, Design &					
					Business					
					Discipline)					
MIT -	Machine Shop	Cambridge, 35 student		MIT	MIT Mechanical	Modelling, Prototyping	3,000 sq. ft.	- Mill	Mainly by	Introductory Session
MakerWorks		MA 02139., mentors		Affiliation	engineering	and Validation		- Lathe	sponsorship	(Maker Mondays) to
		The U.S.	stationing		undergraduates,	Resources		- Waterjet Laser Cutters	contributions from	train newcomers on
			on		graduate			- 3D printers	Martin Trust Center	policies and basic
			part-time		students,			- Hand Tools	(Charges for some	tools
			basis		post-doctoral			- Electronics Tools	machines and	
					researchers,			- CAD/CAM & machine	materials)	
					professors, staff &			related software		
					Martin Trust					
					Center Affiliates					

香港特別行政區政府

The Government of the Hong Kong Special Administrative Region

Ref: ITCCR 13/1608/16

Tel: 2810 2750

4 May 2017

Dr Lawrence Cheung Director, Technology Development Hong Kong Productivity Council HKPC Building, 78 Tat Chee Avenue Kowloon, Hong Kong

Dear Lawrence,

Hong Kong Productivity Council (HKPC) Service Proposal for the Inno Space

I refer to your service proposal dated 27 April 2017 (enclosed) on the establishment and operation of the Inno Space from 1 April 2017 to 31 March 2019. I am pleased to inform you that the Commissioner for Innovation and Technology has accepted the service proposal.

For this purpose, the Innovation and Technology Commission (ITC) will disburse an additional subvention of \$17,760,000 to HKPC, payable in 2017-18 and 2018-19 subject to the passing of the Appropriation Bill for the relevant years at the sum –

2017-18 : \$14,010,000 2018-19 : \$3,750,000

Please be reminded that the additional subvention should only be used for the purpose of establishing and operating the Inno Space. Any unspent subvention should be returned to the Government. HKPC is required to provide half-yearly progress reports on the implementation of the Inno Space and notify ITC of any substantial changes to the service proposal.

If you have any questions, please feel free to contact me or Mr Yeung Ba Sang at 2810 3276.

Yours sincerely,

(Bryan Ha)

for Commissioner for Innovation and Technology

Encl.