

**SME Development Fund (SDF)/
Dedicated Fund on Branding, Upgrading and Domestic Sales (BUD Fund)
(Organisation Support Programme) (OSP)**

Final Report on Approved Project

Project ref. no.	:	<u>D16 002 008</u>
Project title	:	<u>To enhance the overall competitiveness of Hong Kong SMEs by upgrading SMEs' 3D printing technology in a sustainable way</u>
Period covered	:	<u>From 01/01/2017 to 30/06/2018</u> (dd/mm/yy) (dd/mm/yy)

1. Project Details

(Please mark with "*" if any of the following project details is different from that in the project proposal appended to the project agreement.)

Project Summary (in about 150 words)

Even though 3D Printing technology not yet fully replaces all manufacturing procedures, introduction of this technology has revolutionized the manufacturing process of many major industries. Facing a great cost reduction throughout the decades, 3D Printing machines is penetrating to the sectors of SMEs and household users. With the ease of operation, everyone can become designers. This technology is popularized and stimulates users' creativity in product design. With the ease in adaptation of 3D Printing technology in SMEs' operation and the breakthrough of limitations in product design, Hong Kong SMEs could no doubt enhance their competitiveness in the tide of the third industrial revolution. To capture the opportunities, a number of activities could be launched to linkup the industry stakeholders, enhance their awareness and strengthen their capability in utilizing 3D Printing technology.

Project Objective(s) (in about 80 words)

- To promote the awareness of industrial application of 3D Printing technology in Hong Kong SMEs under different industry sectors on high value added and mass customization products.
- To bridge up Hong Kong SMEs with the leading 3D Printing application technology
- To provide opportunities for Hong Kong SMEs to train up and upgrade their professionals in 3D Printing modelling skills for the industrial application.

Grantee/Collaborating Organisation/Implementation Agent

Grantee	:	<u>Hong Kong 3D Printing Association Limited</u>
	:	<u>Hong Kong Federation of Innovative Technologies and Manufacturing Industries Limited</u>
		<u>Diamond Federation of Hong Kong China Limited</u>
		<u>Hong Kong Optical Manufacturers Association Limited</u>
		<u>Hong Kong Intimate Apparel Industries' Association Limited</u>
		<u>The Hong Kong Federation of Restaurants and Related Trades Limited</u>
		<u>The Federation of Hong Kong Footwear Limited</u>
		<u>Hong Kong Construction Materials Association Limited</u>
		<u>Hong Kong Foundry Association Limited</u>
		<u>Hong Kong Designers Association Limited</u>
Collaborating Organisation(s)		<u>Hong Kong Electrical Appliance Industries Association Limited</u>
Implementation Agent(s)	:	<u>Hong Kong Productivity Council</u>

Key Personnel

	<u>Name</u>	<u>Company/Organisation</u>	<u>Tel No. & Fax No.</u>
Project Co-ordinator	Ms Wai Yin SIN, Ami	Hong Kong 3D Printing Association Limited	24651271 & 24545178
Deputy Project Co-ordinator	Ir Kwok Wai SUEN, Samson	Hong Kong Productivity Council	27885552 & 27885522

Project Period

	<u>Commencement Date</u> (day/month/year)	<u>Completion Date</u> (day/month/year)	<u>Project Duration</u> (No. of months)
As stated in project agreement	01/01/2017	30/06/2018	18
Revised (if applicable)			

2. Summary of Project Results

Project Deliverables

(Please list out the project deliverables as stated in the project proposal appended to the project agreement and provide details related to the actual result achieved for each of them.)

	Project deliverable	Quantifiable target number (e.g. 100 participants)	Actual result achieved (e.g. 90 participants)	Reasons for not achieving the target, if applicable (e.g. The total number of registered participants was over 120. However, some of them did not show up eventually. Will strengthen promotion and try to make up for the shortfall in the following two seminars.)
a)	A project website	N/A	N/A	
b)	An half-page advertisement on newspaper	N/A	N/A	
c)	1st seminar – Building & construction, Food & beverage	140	160	
d)	1st workshop - Food & beverage	40	34	The total number of registered participants was 40. However, some of them didn't show up eventually. It is confident that with more promotion, the shortfall could be made up in the coming 4 workshops.
e)	2nd workshop – Building & construction	40	42	
f)	2nd seminar – Toy, game & premium gift, Houseware	140	154	
g)	3rd Workshop – Houseware	40	40	
h)	4th Workshop – Toy & game & premium gift	40	40	
i)	3rd Seminar – Jewellery + Eyewear + Fashion + Footwear	140	309	
j)	5th Workshop – Jewellery	40	46	
k)	6th Workshop – Footwear	40	46	
l)	7th Workshop – Eyewear	40	44	
m)	8th Workshop – Fashion	40	42	

Details of the deliverables (e.g. date, duration, venue, speaker, topic discussed, etc.)

(Please list out in table format if necessary.)

	Project deliverable (e.g. First seminar)	Date	Duration	Venue	Speaker	Topic discussed
a)	A project website	13 Apr 2017 (website launch date)	N/A	Website: www.3dpforhksme.com	N/A	N/A

b)	An half-page advertisement on newspaper	27 Mar 2017	N/A	Published on Metro Daily	N/A	N/A
c)	First seminar – Building & construction, Food & beverage	24 Apr 2017	6 hrs	Theatre 3, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong	1. Prof. Christopher Tuck, Professor of Materials Engineering, Faculty of Engineering, The University of Nottingham 2. Mr. Ronald Rael, CEO, Emerging Object 3. Ms. Melissa E Snover, Managing Director, Katjes-Magic Candy Factory 4. Mr. Billy Wong, Senior BIM/AEC Technology Manager, Gammon Construction 5. Mr. Sidney Tang, Architect 6. Mr. Michael Wong, Manager of Strategic Marketing & Business Development, Welfare Electronic Components Limited 7. Mr. Chuck Fung, Senior Consultant, Hong Kong Productivity Council	1. Development, technology and industrial application of 3D printing 2. 3D Printing successful application case in Building & construction industry 3. 3D printing successful application case in Food & beverage industry 4. 3D printing application experience sharing by local industry – Building & construction industry 5. 3D printing application experience sharing by local industry – Food & beverage industry
d)	First workshop - Food & beverage	19 May 2017	8 hrs	Room 112, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong	1. Mr. Michael Wong, Manager of Strategic Marketing & Business Development, Welfare Electronic Components Limited 2. Mr. Chuck Fung, Senior Consultant, Hong Kong Productivity Council	3D Printing application in local Food & beverage industry
e)	Second workshop – Building & construction	23 Jun 2017	8 hrs	Room 112, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong	1. Mr Armin Veitl, Technical Director for Service and Support, Altair China (note a)	3D printing application in Building & construction industry

f)	Second seminar – Toy, game & premium gift, Houseware	15 Sep 2017	6 hrs	Theatre 3, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong	1. Prof. Joshua M. Pearce, Professor, Materials Science & Engineering and Electrical & Computer Engineering, Michigan Technological University	1. Development, technology and industrial application of 3D printing
					2. Mr. James Fleet Hower, Creator, LockNesters	2. 3D printing successful application case in Toy, game & premium gift industry
					3. Mr. Peter Donders, Belgian artist and furniture designer	3. 3D printing successful application case in Houseware industry
					4. Mr. Ng Hoi Chun, Steve, Director, Toyeast Limited	4. 3D printing application experience sharing by local industry - Toy, game & premium gift industry
					5. Mr. Yip Sze Ming, Harris, Project Manager, Double H Industrial & Technology Limited	5. 3D printing application experience sharing by local industry - Houseware industry
					6. Mr. Steven Ma, Founder and Chief Designer, Xuberance Design Inc	
g)	3rd Workshop – Houseware	10 Oct 2017	8 hrs	Room 112, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong	Mr. Yip Sze Ming, Harris, Project Manager, Double H Industrial & Technology Limited	3D Printing application in local houseware industry
h)	4th Workshop – Toy & game & premium gift	16 Nov 2017	8 hrs	Room 112, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong	Mr Wong Yuk Founder, Apostrophe's Co. Ltd	3D Printing application in local toy & game & premium gift industry
i)	3rd Seminar – Jewellery + Eyewear + Fashion + Footwear	7 Mar 2018	6 hrs	Conference Hall, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong	Dr. Mike Fralix CEO of [TC] ²	Development, technology and industrial application of 3D printing
					Dr. Lionel Dean Senior Lecturer, School of Design, De Montfort University (DMU), Leicester, UK.	Latest 3D Printing technology development

					Mr. Todd Blatt Founder of Custom 3D Stuff LLC	Innovative & unique applications and methodology of 3D Printing
					Dr. George Michael Vasquez Founder of 3Degrees	Difference and similarities of the methodology adopted by foreign enterprises and HK SMEs
					Mr. Eddie Lai Founder of Forever Couple	3D printing application experience sharing by local industry – Jewellery industry
					Mr. Ameber Leung Founder of No Concept Limited	3D printing application experience sharing by local industry – Footwear industry
					Mr. Edmond Wong Founder and Chief Designer of ITUM	3D printing application experience sharing by local industry – Eyewear industry
					Mr. Zac Leung Founder to Portion Studio Limited	3D printing application experience sharing by local industry – Fashion industry
j)	5th Workshop – Jewellery	26 Mar 2018	8 hrs	Room 112, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong	Mr. Clement Chan Director of Yuen Kee Ho Machinery Ltd	3D Printing application in local jewellery industry
k)	6th Workshop – Footwear	20 Apr 2018	8 hrs	Room 112, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong	Mr. Ameber Leung Founder of No Concept Limited	3D Printing application in local footwear industry
l)	7th Workshop – Eyewear	11 May 2018	8 hrs	Room 112, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong	Mr. Edmond Wong Founder and Chief Designer of ITUM	3D Printing application in local eyewear industry
m)	8th Workshop – Fashion	15 Jun	8 hrs	Room 112, HKPC Building, 78 Tat Chee	Mr. Zac Leung Founder to Portion Studio Limited	3D Printing application in local fashion industry

				Avenue, Kowloon, Hong Kong		
n)	An half-page advertisement on newspaper	27 Jun	N/A	Published on Metro Daily	N/A	N/A

Milestones (in chronological order)

(# Please indicate if the milestone is completed (C), deferred (D) or not achieved (N). If it is deferred, please indicate the revised completion date. For those milestones which are deferred or not achieved, please also provide the reasons under item 2.4.)

Milestone (as set out in the approved project proposal appended to the project agreement)		Original target completion date	Revised completion date (if applicable)	Status (C/D/N) #
-	To launch the 1st half-page advertisement on newspaper	31 Mar 2017	13 Apr 2017	D
-	To launch project website			
-	To identify venue and potential speakers for seminars and workshop			
To design and produce leaflet of the 1st seminar				
(a)	- To organize the 1st seminar for Building & construction and Food & beverage industries	30 Apr 2017	24 Apr 2017	C
To design and produce leaflet of the 1st seminar				
(b)	- To organize the 1st and 2nd workshops for Building & construction and Food & beverage industries	30 Jun 2017	19 May 2017 23 Jun 2017	C
-	To design and produce leaflet of the 2nd seminar			
(c)	- To organize the 2nd seminar for Toy, game & premium gift and Houseware industries	30 Aug 2017	15 Sep 2017	D
-	To design and produce leaflet of the 3rd and 4th workshops			
(d)	- To organize the 3rd and 4th workshops for Toy, game & premium gift and Houseware industries	31 Oct 2017	20 Oct 2017 16 Nov 2017	D
-	To design and produce leaflet of the 3rd seminar			
(e)	- To organize the 3rd seminar for Jewellery, Eyewear, Fashion and Footwear industries	31 Jan 2018	7 Mar 2018	D
-	To design and produce leaflet of the 5th & 6th workshop			
(g)	- To organize the 5th & 6th workshops for Jewellery, Eyewear,	31 Mar 2018	26 Mar 2018 20 Apr 2018	D
-	To design and produce leaflet of the 7th & 8th workshop			
(h)	- To organize the 7th & 8th Fashion and Footwear industries	31 May 2018	11 May 2018 15 Jun 2018	D
-	To launch the 2nd half-page advertisement on newspaper			
(i)	- To finalize the information on the website	30 Jun 2018	27 Jun 2018	C

Future Plan for Promoting the Project Deliverables (Nil if not applicable)

N/A
