

## Trade and Industrial Organisation Support Fund (TSF)

### Final Report on Approved Project

|  |   |  |
|--|---|--|
| Grantee  | : | The Hong Kong Plastics Manufacturers Association Limited   |
| Implementation Agent(s) (if any)                       | : | Hong Kong Productivity Council (HKPC)  |
| Project reference no.                                  | : | T21 003 011  |
| Project title  | : | Promoting the “green” movement by Hong Kong plastics industry: eco-design, novel materials and advanced processing |
| Period covered in this report (whole project duration) | : | From 15/02/2022 to 14/06/2024<br>(dd/mm/yyyy) (dd/mm/yyyy)   |

## 1. Project Details

### Project summary (in about 150 words)

An atmosphere in reducing or even eliminating the use of plastics is developed in recent years all over the world due to the various environmental problems brought by plastic waste. This “zero plastic” initiative creates both challenges and opportunities for Hong Kong plastics manufacturers, especially for the Mainland market. While there is a ban on certain plastics / plastic products, there emerges a demand for their replacements. Most Hong Kong manufacturers understand the global market trend on green plastic products and is prepared to provide “green” solutions to fulfil customers’ expectation.

In order to make known of Hong Kong plastic manufacturers’ “green” initiative in making their plastic products environmentally friendly and to tap into the emerging Mainland market with growing concern on “plastics and the environment”, an industry promotion campaign is suggested. The project includes setting up of Pavilion, together with business networking, in renowned plastics exhibition and other promotion activities (such as organization of awareness seminars and publication of industry directory).

### Project objectives (in about 50 words)

To make known of Hong Kong plastic manufacturers’ “green” move in making their plastic products more environmentally friendly and to tap into the emerging Mainland market with growing concern on “plastics and the environment”

### Collaborating Organisations (if any)

Hong Kong Mould and Die Council

Hong Kong Plastics Industry Council

Hong Kong Plastic Machinery Association Limited

The Chinese Manufacturers’ Association of Hong Kong

### Key personnel

|                            | <u>Name</u>           | <u>Post title and name of organisation</u>               |
|----------------------------|-----------------------|--|
| Project Coordinator        | Mr Eric Yung-tson Sun | Chairman of HKPMA  |
| Deputy Project Coordinator | Ir Ko Yiu Cho         | Head of Smart Machinery and Composite Technology of HKPC |

### Project duration

|                                    | <u>Commencement date</u><br>(dd/mm/yyyy) | <u>Completion date</u><br>(dd/mm/yyyy) | <u>Project duration</u><br>(no. of months) |
|------------------------------------|--|--|--|
| As stated in the project agreement | 15/02/2022                               | 14/06/2023                             | 16   |
| Revised (if applicable)            | N/A                                      | 14/06/2024                             | 28   |

## 2. Summary of Project Results

### Governance

Please state the composition of the steering committee (or other committees) formed under the project.

The steering committee consisted of representatives from the Hong Kong Plastic Machinery Association (HKPMA) and the Hong Kong Productivity Council (HKPC) in a distribution at below:

1. Eric Y.T. SUN, Chairman of HKPMA
2. Bernie W.C TING, Vice Chairman of HKPMA and Chairman of Hong Kong Plastics Industry Council
3. Terrence M.C. HUI, Director of HKPMA
4. Andrew HUI, Director of HKPMA
5. Y.C. KO, Senior Consultant of the Hong Kong Productivity Council
6. Felix CHOI, Chairman of Hong Kong Mould and Die Council
7. Jim LIU, Chairman of Hong Kong Plastic Machinery Association

### Project deliverables

Please list out the project deliverables carried out during the project duration in accordance with the approved project proposal and provide details on the actual result achieved for each deliverable.

| Details of the deliverable conducted   | Quantifiable target (as stated in the approved project proposal) | Actual result achieved  | Reasons for not achieving the target (if applicable) |
|--|--|---|--|
| <b>I. Awareness Seminars</b>   |  |   |  |
| First awareness seminar<br>Date: 23/03/2023<br>Time: 10:00 – 12:00 (2 hours)<br>Venue: Theatre 2, HKPC<br>Mode: Physical<br>Topics covered:<br>A. Introduction to project scope, events, deliverables and exhibit selection criteria (CHINAPLAS國際橡塑展2023香港館簡介)<br><br>Speaker: Mr. Andrew LIU, Senior Consultant, Plastic and Composite Material Technology at Hong Kong Productivity Council<br><br>B. Updated rules and regulation regarding plastic products in the Mainland (塑膠產品的規限及要求)<br><br>Speaker 1: Mr. Anson CHEUNG, Section Manager of electronic and electrical department at TÜV SÜD Hong Kong<br><br>Speaker 2: Mr. Raymond LUI, Director of Enterprise Solution and Marketing at British Standard | Target no. of participant of 1 <sup>st</sup> seminar: <u>40</u>  | Actual no. of participant of 1 <sup>st</sup> seminar: <u>42</u> |  |

| Details of the deliverable conducted   | Quantifiable target (as stated in the approved project proposal)      | Actual result achieved  | Reasons for not achieving the target (if applicable) |
|--|---|---|--|
| <p>Institution (BSI)</p> <p>(iii) Market needs and trends on green plastic products (綠色塑膠產品的市場需求和趨勢)</p> <p>Speaker: Ms. Angie CHENG, Associate Principal Consultant, Plastic and Composite Material Technology at Hong Kong Productivity Council</p>  |   |   |  |
| <p>Second awareness seminar<br/>Date: 29/01/2024<br/>Time: 10:00 – 12:00 (2 hours)<br/>Venue: Inno Centre, HKPC<br/>Mode: Physical<br/>Topics covered:</p> <p>A. Introduction to project scope, events, deliverables and exhibit selection criteria (CHINAPLAS 國際橡塑展2024香港館簡介)</p> <p>Speaker: Ms. Angie CHENG, Associate Principal Consultant, Plastic and Composite Material Technology at Hong Kong Productivity Council</p> <p>B. The Role of Recycled Plastic in Achieving Sustainable Development (滿足永續發展的再生塑膠)</p> <p>Speaker: Mr. Mike LO, Sales manager of Legacy Innovation Development Limited</p> <p>C. Applications of Biopolymers and Biobased Coatings (生物基聚合物及塗料的應用)</p> <p>Speaker 1: Mr. Keith TAM, Ngai Hing Engineering Plastic (Hong Kong) Ltd</p> <p>Speaker 2: Prof To Ngai, Ngai Hing Engineering Plastic Materials Ltd</p> <p>D. Quantification of Carbon Footprint in Manufacturing Industry and Case Studies (製造業產品碳足跡量化及案例分享)</p> <p>Speaker: Ir Edward CHOW, Head of Carbon and</p> | <p>Target no. of participant of 2<sup>nd</sup> seminar: <u>40</u></p> | <p>Actual no. of participant of 2<sup>nd</sup> seminar: <u>44</u></p> |  |

| Details of the deliverable conducted   | Quantifiable target (as stated in the approved project proposal)                           | Actual result achieved   | Reasons for not achieving the target (if applicable)   |
|--|--|--|--|
| Environmental Excellence Unit at Hong Kong Productivity Council  |  |  |  |
| <b>2. Hong Kong pavilions</b>  |  |  |  |
| <p>Name and place of exhibition:<br/>Hong Kong Pavilion in Chinaplas 2023, Shenzhen, PRC</p> <p>Date: 17-20/04/2023 (4 days)<br/>Size of pavilion: 84 sqm<br/>Selection criteria adopted:</p> <ul style="list-style-type: none"> <li>- Degree of green innovation in plastic products</li> <li>- Degree of using of advanced processing technology when producing the plastic products</li> </ul> <p>Exhibitor Name (Product Types)</p> <ol style="list-style-type: none"> <li>1. Cheng Yu Plastic Company Limited (Bio-based plastic resin)</li> <li>2. Able Trillion Holding Limited (Biodegradable tableware, Daily necessities)</li> <li>3. Green Resources Recycle Limited (Bio-based tableware)</li> <li>4. Logos Packaging Holdings Limited (Recycled plastic packaging)</li> <li>5. DragonChem (Biodegradable tableware)</li> <li>6. Supreme Development Company Limited (Bio-based plastic packaging)</li> <li>7. reMatter (Biodegradable plastic face mask)</li> <li>8. iSAACMA (HK) Co. Limited (Board game equipment, phone case made by recycled plastic)</li> <li>9. Legacy innovation development limited (Plastic plate, tableware, phone case made by recycled plastic)</li> <li>10. Chun Yip Plastics Limited (Biodegradable plastic bag)</li> <li>11. Kin Sang Chemical Limited (Biodegradable plastic tableware and toy)</li> <li>12. Immune Materials Limited (Recycled plastic bag)</li> </ol> | <p>Target no. of products displayed:<br/><u>60</u> products from <u>12</u> enterprises</p> | <p>Actual no. of products displayed:<br/><u>70</u> products from <u>12</u> enterprises</p> | <p>The size of the pavilion was 84 sqm instead of the proposed 80sqm because the exhibition organiser did not provide size of 80 sqm for the pavilion and 84 sqm was the closest size which could be chosen.</p> |
|  |  |  |  |

| Details of the deliverable conducted   | Quantifiable target (as stated in the approved project proposal)                           | Actual result achieved   | Reasons for not achieving the target (if applicable)   |
|--|--|--|--|
| <p>Name and place of exhibition:<br/>Hong Kong Pavilion in Chinaplas 2024, Shanghai, PRC</p> <p>Date: 23-26/04/2024 (4 days)<br/>Size of pavilion: 84 sqm<br/>Selection criteria adopted:</p> <ul style="list-style-type: none"> <li>- Degree of green innovation in plastic products</li> <li>- Degree of using of advanced processing technology when producing the plastic products</li> </ul> <p>Exhibitor Name (Product Types)</p> <ol style="list-style-type: none"> <li>1. Baguio Waste Management &amp; Recycling Limited ( a member of Baguio Green Group) (Recycled plastic product)</li> <li>2. Dragonchem Ltd (Biodegradable tableware)</li> <li>3. Kin Sang Chemical Limited (Biodegradable plastic tableware and toy)</li> <li>4. Logos Packaging Holdings Limited (Recycled plastic packaging)</li> <li>5. Real Goal GPT Manufacturing Systems Limited (Green Plastics manufacturing system)</li> <li>6. Smart MM Engineering Systems Limited (Green Plastics manufacturing system)</li> <li>7. Ngai Hing Engineering Plastic Materials Ltd (Bio-based, recycled plastics)</li> <li>8. Legacy Innovation Development Limited (Plastic plate, tableware, phone case made by recycled plastic)</li> <li>9. iSAACMA (HK) Co. Ltd (Board game equipment, phone case made by recycled plastic)</li> <li>10. Immune Materials Limited (Recycled plastic bag)</li> <li>11. Shun Hing Industrial International Limited (recycled plastic and bio-based plastics product)</li> <li>12. Nano and Advanced Materials Institute Ltd. (Post-Consumer Recycled plastics)</li> </ol> | <p>Target no. of products displayed:<br/><u>60</u> products from <u>12</u> enterprises</p> | <p>Actual no. of products displayed:<br/><u>90</u> products from <u>12</u> enterprises</p> | <p>The size of the pavilion was 84 sqm instead of the proposed 80sqm because the exhibition organiser did not provide size of 80 sqm for the pavilion and 84 sqm was the closest size which could be chosen.</p> |

| Details of the deliverable conducted   | Quantifiable target (as stated in the approved project proposal)   | Actual result achieved   | Reasons for not achieving the target (if applicable)  |
|--|--|--|---|
|  |  |  |   |
| <b>3. Business networking sessions</b>   |  |  |   |
| Networking session in Chinaplas 2023<br>Date: 18/04/2023<br>Time: 14:00 – 16:00 (2 hours)<br>Venue: Discussion area in Hong Kong Pavilion  | Target no. of participants from Hong Kong: <u>20</u><br>Target no. of overseas / Mainland buyers: <u>40</u>  | Actual no. of participants from Hong Kong: <u>27</u><br>Actual no. of overseas / Mainland buyers: <u>43</u>  | N/A   |
| Networking session in Chinaplas 2024<br>Date: 24/04/2024<br>Time: 10:00 – 12:00 (2 hours)<br>Venue: Discussion area in Hong Kong Pavilion  | Target no. of participants from Hong Kong: <u>20</u><br>Target no. of overseas / Mainland buyers: <u>40</u>  | Actual no. of participants from Hong Kong: <u>30</u><br>Actual no. of overseas / Mainland buyers: <u>49</u>  | N/A   |
| <b>4. Directory</b>  |  |  |   |
| <p>Purpose: To provide the latest industry information of Hong Kong plastic related companies with green moves</p> <p>Contents: Company Overview, major businesses, contact information, list of introduction of green products</p> <p>Target readers: Potential buyers at the exhibitions</p> <p>Soft copy of the directory is uploaded to The Hong Kong Plastics Manufacturers Association Limited's website (<a href="https://hkplastics-ma.com/links2.php">https://hkplastics-ma.com/links2.php</a>) for free download.</p> <p>Completion date: 17/04/2023</p> | <p>Target no. of printed copies: <u>200</u></p> <p>Target no. of Hong Kong plastic enterprise: around 100</p>  | <p>Actual no. of printed copies: <u>200</u></p> <p>Actual no of Hong Kong plastic enterprise: 82</p>   | The target number of Hong Kong plastic enterprise to be published on the directory is around 100 while the actual number of enterprises being published is 82. The project team sent out several rounds of recruitment email to different target parties for inviting companies to provide information for the directory. |
| <b>4. Promotion activities</b>   |  |  |   |
| <p>Advertisement on Chinaplas 2023 official website</p> <p>Purposes:</p> <ul style="list-style-type: none"> <li>- To promote the excellence of Hong Kong plastic manufacturers in green manufacturing</li> <li>- To invite the guests to visit "Hong Kong pavilion" in the</li> </ul>  | <p>Target no. of advertisements placed in Chinaplas 2023 official website: <u>2</u> button advertisements on show information section and <u>1</u> button advertisement on the search pages of the</p> | <p>Actual no. of advertisements placed in Chinaplas 2023 official website: <u>2</u> button advertisements on show information section and <u>1</u> button advertisement on the search pages of the e-sourcing platform</p> |   |

| Details of the deliverable conducted   | Quantifiable target (as stated in the approved project proposal)   | Actual result achieved   | Reasons for not achieving the target (if applicable) |
|--|--|--|--|
| exhibition   | e-sourcing platform  |  |  |
| <p>Advertisement on Chinaplas 2024 official website</p> <p>Purposes:</p> <ul style="list-style-type: none"> <li>- To promote the excellence of Hong Kong plastic manufacturers in green manufacturing</li> <li>- To invite the guests to visit "Hong Kong pavilion" in the exhibition</li> </ul>                                 | <p>Target no. of advertisements placed in Chinaplas 2024 official website: <u>2</u> button advertisements on show information section and <u>1</u> button advertisement on the search pages of the e-sourcing platform</p> | <p>Actual no. of advertisements placed in Chinaplas 2024 official website: <u>2</u> button advertisements on show information section and <u>1</u> button advertisement on the search pages of the e-sourcing platform</p> |  |
| <p>Leaflets (e-version) for the first awareness seminar</p> <p>Purpose:</p> <ul style="list-style-type: none"> <li>- One page of e-leaflet was published through the eDM by HKPC on 17/3/2023 and through association circular on 20/3/2023 to invite local companies to participate in the first awareness seminar.</li> </ul>  | <p>Target no. of page: <u>1</u> page</p>   | <p>Actual no. of page: <u>1</u> page</p>   |  |
| <p>Leaflets (e-version) for the second awareness seminar</p> <p>Purpose:</p> <ul style="list-style-type: none"> <li>- One page of e-leaflet was published through the eDM by HKPC on 22/1/2024 and through association circular on 12/1/2024 to invite local companies to participate in the first awareness seminar.</li> </ul> | <p>Target no. of page: <u>1</u> page</p>   | <p>Actual no. of page: <u>1</u> page</p>   |  |
| <p>An E-banner has been posted on the Hong Kong Plastic Machinery Association Limited's website (<a href="http://www.hkpma.com/en/">http://www.hkpma.com/en/</a>) since 15/02/2023.</p>  | <p>Target duration: <u>16</u> months</p>   | <p>Actual duration: <u>16</u> months</p>   |  |



## Key implementation stages

Please indicate in the status below if the deliverable is completed according to schedule (C), completed but delayed (D) or not achieved (N). If it is delayed or not achieved, please indicate the actual completion date (if applicable) and provide the reasons.

|     | <u>Project deliverable</u><br>(all deliverables as set out in the approved project proposal) | <u>Original target completion date</u> <sup>1</sup> | <u>Actual completion date</u><br>(if applicable) | <u>Status</u><br>(C/D/N) | <u>Reasons for not meeting the original target completion date</u> |
|-----|--|---|--|--------------------------|--|
| (a) | To form a steering committee   | 15/03/2022  | -  | C                        |  |
| (b) | Production of directory  | 31/12/2022  | 17 Apr 2023                                      | D                        | Refer to Note (i)  |
| (c) | Posting of e-banner  | 14/06/2024  | -  | C                        |  |
|     | Production of leaflet for the 1 <sup>st</sup>  |   |  |                          |  |
| (d) | awareness seminar  | 31/03/2023  | -  | C                        |  |
|     | Organization of the 1 <sup>st</sup> awareness  |   |  |                          |  |
| (e) | seminar  | 31/03/2023  | -  | C                        |  |
|     | Production of advertisements on  |   |  |                          |  |
|     | Chinaplas official website for the 1 <sup>st</sup>   |   |  |                          |  |
| (f) | Chinaplas  | 30/06/2023  | -  | C                        |  |
|     | Organization of the 1 <sup>st</sup> Chinaplas in   |   |  |                          |  |
| (g) | Shenzhen   | 30/06/2023  | -  | C                        |  |
|     | Organization of business networking  |   |  |                          |  |
| (h) | session during 1 <sup>st</sup> exhibition  | 30/06/2023  | -  | C                        |  |
|     | Production of leaflet for the 2 <sup>nd</sup>  |   |  |                          |  |
| (i) | awareness seminar  | 31/01/2024  | -  | C                        |  |
|     | Organization of the 2 <sup>nd</sup> awareness  |   |  |                          |  |
| (j) | seminar  | 31/01/2024  | -  | C                        |  |
|     | Production of advertisements on  |   |  |                          |  |
|     | Chinaplas official website for the 2 <sup>nd</sup>   |   |  |                          |  |
| (k) | Chinaplas  | 14/06/2024  | -  | C                        |  |
|     | Organization of the 2 <sup>nd</sup> Chinaplas in   |   |  |                          |  |
| (l) | Shanghai   | 14/06/2024  | -  | C                        |  |
|     | Organization of business networking  |   |  |                          |  |
| (m) | session during 2 <sup>nd</sup> exhibition  | 14/06/2024  | -  | C                        |  |

Note (i): Since we want to recruit more companies for the directory, we extend the recruiting period to a date close to the exhibition. Since we had the directory for free distribution at the Chinaplas 2023 (start date 17 Apr 2023), we set this as the publishing date as well as the completion date.

<sup>1</sup> As stated in the approved project proposal.