

Construction Industry Council

Committee on Productivity

Meeting No. 004/22 of the Committee on Productivity was held on 1 December 2022 (Thursday) at 2:30 pm in the Board Room, 38/F, COS Centre, 56 Tsun Yip Street, Kwun Tong, Kowloon and via MS Teams.

Present:	Ken WONG*	(KnW)	Chairperson
	Kwok-fai CHUNG	(CKFi)	
	Tai-hing MOW*	(THM)	
	Derek SO*	(KLS)	
	Victor CHEUNG*	(VC)	
	Terence HUI*	(TeH)	
	KAN Jun	(KJ)	
	Stephen LAI*	(SnL)	
	Dominic LAW*	(DcL)	
	Simon Wong*	(SnW)	
	Joseph LO*	(JhL)	for Permanent Secretary for Development (Works)
	Rayson WONG*	(RnWg)	for Permanent Secretary for Transport and Housing (Housing)
Franki YEUNG*	(FY)		
In Attendance:	Thomas HO	(TH)	Chairman, CIC
	Thomas TONG	(TsT)	Assistant Director – Industry Development
	James WONG	(JsW)	Senior Manager – Industry Development
	Ada LAM*	(LCY)	Manager – Industry Development
	Eason YUNG	(EnY)	Assistant Manager – Industry Development
	Christy KWONG	(CyK)	Senior Officer – Industry Development
Apologies:	Tat-wai LI	(LTWi)	
	Rocky POON	(LKP)	
	Clarence LEUNG	(CLWK)	
	Simon LIU	(SiL)	
	Edwin TONG	(ETg)	

* Members and presenters attended the meeting online via MS Teams.

MINUTES

Action

4.1 **Confirmation of the Minutes of the Previous Meeting**

Members confirmed the minutes of the Com-PRO Meeting No. 003/22 without further amendment.

All to Note

4.2 **Matters Arising from the Previous Meeting**

(i) **Progress updates on ConTech Accelerator Programme co-organised with Hong Kong Science and Technology Park Corporation (HKSTP)**

20 main contractors were engaged in the ConTech Accelerator Programme with 165 pain points collected covering the areas of construction safety, productivity, and sustainability. Over 100 solution providers were recruited to address the contractors' needs. It was anticipated that 70% of the pain points could be potentially resolved. Members suggested sharing the pain points with i-Club members. CIC Secretariat will continue to follow up on the Accelerator Programme.

(ii) **Progress updates on Research Proposal: Logistigraphs.io – A Parametric Modularization Analytics Tool**

The applicant updated that they had a potential project of a 23-storey building with 160 MiC modules to be analysed through the proposed research. The CIC Secretariat will seek Members' approval once the proposal is finalised.

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(iii) **Progress updates on Research Proposal: Autonomous Mobile Robot for Material Delivery and Site Inspection**

The proposal commenced in November 2022 and expected to complete in 12 months. The CIC Secretariat will update Members with the project progress in due course.

(iv) **Consultancy Study: Digitalising Construction for Enhancing Project Delivery**

Llewellyn & Partners Co. Ltd was awarded to conduct the consultancy study. The project will commence on 3 January 2023 and complete by March 2024.

(v) **Webinar on MiMEP**

A webinar on "The New Normal of MiMEP" was held on 21 October 2022 to promote the guideline published by CIC and to encourage adoption of MiMEP in the industry. Over 1,500 practitioners joined the webinar.

(vi) Update on Consultancy Study of “Improving Time, Cost and Quality Performance of the Hong Kong Construction Industry (TCQ Study)”

A press conference was held on 17 November 2022 to launch the TCQ report, promulgating the strategies for improving time, cost and quality performance of the industry.

(vii) Update on Consultancy Study for Establishing a Certification Scheme for Construction Robotics for the Hong Kong Construction Industry

Deliverables had been endorsed by the Expert Group and final payment will be settled accordingly. CIC will consider launching the scheme once the market of on-site welding, painting and plastering robots becomes more mature. Nevertheless, reference material will be compiled and published in March / April 2023 based on the outcomes of the consultancy for industry’s reference.

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(viii) Update on Construction Innovation Expo 2022

The CIExpo will be held on 13 to 17 December 2022. There are four themed zones including industrialisation, digitalisation, automation and modernisation. There will also be two International Summits and four International Conferences taking place. Over 3,000 visitors have been registered as at 30 November 2022. Chairman encouraged Members to promote the event to the industry.

4.3 Consultancy Services on Digitalising Construction for Enhancing Project Delivery

Prof. Llewellyn TANG from Llewellyn & Partners Co. Ltd. recapped the aim of the consultancy: to drive the digital adoption in construction to enhance the project delivery including productivity, safety, quality, cost and sustainability. SMEs in the industry should be well-covered. While overseas best practices would be reviewed through this consultancy, Members reminded that the industry structure and operations in other countries could be quite different and therefore findings should be used with caution. Members also advised that the assessment of digital maturity for the ten selected projects had to be comprehensive and robust. In addition, construction time and cost should be included as the KPIs of project delivery on top of sustainability, safety and quality.

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The Secretariat would further liaise with the project team to monitor the progress of the consultancy and update Members the progress from time to time.

4.4 **Progress Update on the Funded Research Project – Development of an Artificial Intelligence Rock Type Classification and Fracture State Characterization APP for Engineering Applications**

Dr. Louis WONG from the University of Hong Kong updated Members on the progress of the subject research project. Progress reports were submitted on 27 June and 27 September 2022 respectively. Image pre-processing and training of AI models had been completed. The research team will enhance the AI model's performance and carry out user trials for the development of online application. A user manual will also be compiled afterwards.

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Members suggested to develop the application to link up the photos and data so as to maintain a Hong Kong-based geological profile. The team take note and will follow up.

4.5 **Brainstorming on Productivity Enhancement for Expediting Public Housing Supply**

RnWg introduced the MiC pilot projects of the Housing Authority and the key strategies and targets for public housing from the 2022 Policy Address. First batch of MiC public housing projects included Tung Chung Area 99, Tak Tin Street and Anderson Road Quarry Site. According to the Policy Address, it was targeted to adopt DfMA in all projects and MiC in suitable projects during 2023 - 2028 while no less than 50% of the projects will adopt MiC during 2028 - 2033. The key issues for the MiC application include transportation and logistic, temporary storage area, and supply chain readiness.

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Members suggested to engage academia or research institutes for conducting research study to develop new construction material, such as light weight aggregate and advanced joint details to facilitate wide adoption of MiC for public housing. RnWg took note and elaborated that the Housing Department is now conducting some studies on the MiC joint details.

Members also suggested providing a platform to display the demand figures of public and private housing for industry's information. The CIC Secretariat will follow up.

4.6 **Any Other Business**

There was no other business.

4.7 Next Meeting 001/23

All to Note

The next meeting would be held on 22 March 2023 tentatively. The Secretariat would inform Members once confirmation of the meeting details.

The meeting was adjourned at 4:40 pm.