

Construction Industry Council

Committee on Building Information Modelling

Meeting No. 004/22 of the Committee on Building Information Modelling (Com-BIM) was held on Tuesday, 6 December 2022 at 2:30pm at Board Room, 29/F, Tower 2, Enterprise Square Five (MegaBox), 38 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong.

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| Present | : Ada FUNG Yin-suen (AF) | Chairperson |
| | Antonio CHAN Chi-ming* (ACHAN) | |
| | Neo CHAN Kang-yuen (NCKy) | |
| | Aaron CHAN Wing-kai (WKCn) | |
| | Jack CHENG Chin-pang (JCCp) | |
| | CHUNG Kwok-fai* (CKFi) | |
| | Francis LEUNG Chi-suen (FLCs) | |
| | Eric POON Shun-wing* (EPSW) | |
| | Rosana WONG Wai-man (RnWg) | |
| | CHAN Yuen-ming, Mary (MYMC) | Chief Officer/Technical |
| | (On behalf of Tommy TAM Wing-cheung) | Services, Buildings Department |
| In Attendance | : Alex HO* (AHKK) | Assistant Director - Industry Development |
| | Daniel CHIU (D1C) | Principal - School of Professional Development in Construction (Acting) |
| | George WONG (GWck) | Senior Manager - Industry Development |
| | Greg CHAN (GgC) | Manager - Industry Development |
| | Sunny CHOI* (SLC) | Manager - Industry Development |
| | Shirley LAM (SHLm) | Manager - Industry Development |
| | Serina LAU* (SLau) | Manager - Industry Development |
| | Lawrence LEUNG (LLTY) | Manager - Industry Development |
| | Ron NG (RNCw) | Manager - Industry Development |
| | Evan MAK (EMYw) | Assistant Manager – Industry Development |
| Apologies | : Donald CHOI Wun-hing (DC) | |
| | Clement CHUNG (CtCg) | |
| | FUNG Chi-yiu (FCY) | |
| | TANG Man-hei (MHT) | |
| | Kelvin WONG Ka-wo (KWKw) | |

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| Michael WONG Wai-lun | (MWWL) | |
| YIP Yin-yung | (YYY) | |
| Alfred WONG | (WKF) | Principal Assistant Secretary (Works) 3, Development Bureau |

*Remarks: *represents the attendee attended the meeting through video conference (Microsoft Teams).*

MINUTES

Action

AF reminded Members to declare conflict of interest, if any.

(FLCs attended the meeting at 2:44pm)

4.1 Confirmation of Minutes of the Previous Meeting

Members took note of Paper CIC/BIM/M/003/22 and confirmed the Minutes of Meeting No. 003/22 of the Com-BIM held on Wednesday, 27 September 2022.

4.2 Matters Arising from the Previous Meeting

This item was discussed after item 4.3.

(a) Item 3.3 – Applications for the CIC R&D Fund

This item was discussed after 4.2 (e).

Having regard to conflict of interest, AF invited JCCp and RnWg to refrain from discussion and voting of this item because they were the project-in-charge of two of the research proposal applications respectively.

(JCCp and RnWg left the meeting at 2:59pm)

(i) Automated BIM-based Clash-free Rebar Design for Reinforced Concrete Components with Extended Types and Irregular Shapes

The research team had not replied to the comments.

(ii) Automatic Generation of Bill of Quantities from BIM Drainage

Network in accordance with Standard Method Measurement for Civil Engineering Works

The research team confirmed the condition could be fulfilled. The revised research proposal had not been received.

(iii) Assessing KPI for BIM: The Development of New Auditing Platform for CDE

The research team replied that they would keep the intellectual property (IP) right. The deliverables were not a platform or plug-in but a checklist of the assessment/audit framework in a digital format. A total of 24 months instead of 18 months would be required.

The CIC Secretariat would submit a paper on the latest progress of these three research proposal applications for approval by circulation.

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(JCCp and RnWg re-attend the meeting at 3:33pm)

(b) Item 3.4 – Assignment Brief and Project Plan for Provision of Supply and Installation of LED Immersive Cave Automatic Virtual Environment (CAVE) for the Construction Industry Council

The CIC would discuss internally the feasibility and mechanism to allow industry stakeholders to use the LED CAVE. At the same time, the CIC was checking with Development Bureau (DEVB), public clients, contractors and private developers such as Urban Renewal Authority (URA) and Airport Authority Hong Kong (AAHK) to collect BIM models. The scope of software of the LED CAVE in the assignment brief would be enhanced. Due to limitations in the CIC Megabox Office, the height of the CAVE could only be maximized at around 2.6 meters.

(c) Item 3.5 – CIC Beginners’ Guide on Construction Digitalisation

The three CIC Beginners’ Guides on Construction Digitalisation were launched on 22 November 2022 in webinar format. They were now published and available for download at the CIC BIM Portal.

(d) Item 3.6 – Summary Notes of a Separate Meeting to Boost the Supply of BIM Personnel

The progress of the white paper/ action plan would be discussed in the agenda item 4.3.

A survey on BIM Education in Higher Education Institutions (HEIs) was conducted in October 2022. The results showed an overall increase in number of BIM training programmes, increased in BIM training hours per programmes and increased in graduates

with BIM training. All HEIs were encouraged to continue providing more BIM courses and also applying for CIC's accreditation for the relevant courses.

As many students might opt for self-learning of computer software, a list of free BIM educational software licenses for students from software vendors was compiled and distributed to the HEIs for distribution to students.

(e) Item 3.9 – Progress of the Task Force on BIM Standards

The name “Development of BIM Harmonisation Guidelines for Digital Hong Kong” as proposed by the Task Force, Assignment Brief and Project Plan were approved in principle by the Com-BIM through circulation on 11 November 2022. The tender of the consultancy services was issued out on 18 November 2022. The Consultancy would tentatively commence in December 2022 for a duration of approximately 9 months.

4.3 Amendment to Terms of Reference and Progress of the Task Force on BIM Personnel Development

Members discussed Paper CIC/BIM/P/037/22.

Formation of Task Force on BIM Personnel Development (paper No. CIC/BIM/P/032/22) was approved by the Com-BIM through circulation on 25 October 2022.

RnWg and NCKy, Co-Chairpersons of the Task Force on BIM Personnel Development (TF-BPD) briefed Members on the progress of the TF-BPD.

GWck supplemented that TF-BPD was considered to develop “Probation” system under the Certification of BIM Coordinators which could recognise the availability of skilled personnel in the industry and also boost the supply of CIC-Certified BIM Coordinators (CCBC). Details of the new scheme would be discussed among TF-BPD and proposed to BIM Certification and Accreditation Board.

GWck briefed the amendment to Terms of Reference. The amendment to the Terms of Reference was approved.

4.4 Update on Progress Report

Members took note of Paper CIC/BIM/P/038/22.

GWCK briefed Members on the key points of the progress updates on the BIM Certification and Accreditation Schemes and the key events by the Construction Digitalisation Department. He also shared the CIC organised four Technology Workshops to Hong Kong General Building Contractors Association, Hong Kong Registered Contractors Association, Hong Kong Construction Sub-Contractors Association and Registered Specialist Trade Contractors Federation for accelerating Small and Medium Enterprises (SMEs) to adopt innovative construction technology supported by the Construction Innovation and Technology Fund (CITF).

4.5 Progress of the Task Force on Development of BIM-related Digital Solutions

Members took note of Paper CIC/BIM/P/039/22.

To strengthen the composition of the Task Force on Development of BIM-related Digital Solutions (TF-DBDS), new appointments to the TF-DBDS (paper no. CIC/BIM/P/033/22) was approved by the Com-BIM through circulation on 28 October 2022.

AHKK, Chairperson of the TF-DBDS, updated Members on the progress of the TF-DBDS. He highlighted that the development of digital solutions would be focused on data audit and checking of model in compliance with building code, and the development would follow OpenBIM approach to ensure vendor neutral.

4.6 ★Progress of the Task Force on BIM Standards

Members took note of *Paper CIC/BIM/P/040/22*.

The progress of the Task Force on BIM Standards (TF-BS) was presented under the starred paper.

Issuance of the “CIC Beginner’s Guide on Construction Digitalisation – Smart Site Digital Platform” (paper no. CIC/BIM/P/031/22), Issuance of the “CIC Beginner’s Guide on Construction Digitalisation – Adoption of BIM in Small and Medium Enterprises” (paper no. CIC/BIM/P/034/22), Issuance of the “CIC-ZCP BIM Implementation Plan (BIM IP) Case Sharing” (paper no. CIC/BIM/P/035/22) and Consultancy Services for the Development of BIM Harmonisation Guidelines for Digital Hong Kong (paper no. CIC/BIM/P/036/22) were approved in principle by the Com-BIM through circulation on 21

October 2022, 28 October 2022, 9 November 2022 and 11 November 2022 respectively.

JCCp, Chairperson of the TF-BS, updated Members on the progress of the TF-BS.

GWCK updated Members that the CIC was not an expert in cyber-security and no cyber-security guide would be developed by the CIC after considering the potential risk to be borne by CIC. The CIC would organise webinars and workshops to raise the awareness of cybersecurity in the industry. Having regard to enhancing general knowledge for industry stakeholders especially SMEs, AF suggested TF-BS to develop a set of handy reference material with key points instead.

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As reflected by some Members during discussion at the TF-BS meeting, AF mentioned that there was a misunderstanding of the definition of Common Data Environment (CDE) in the industry. After deliberation, TF-BS would collect more information and share with the industry.

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4.7 ★Progress of the Task Force on BIM Training

Members took note of *Paper CIC/BIM/P/041/22*.

The progress of the Task Force on BIM Training was presented under the starred paper.

LLTY updated Members on the progress of Task Force on BIM Training (TF-BT) on behalf of the Chairperson of TF-BT.

Members noted that the number of BIM Viewers had already reached target of 2025 ahead of schedule. AF observed that the target was low relative to the total number of practitioners in the industry. Efforts should be sustained to boost BIM literacy in the industry.

D1C updated the BIM training figures in the School of Professional Development in Construction of Hong Kong Institute of Construction (HKIC). He shared that BIM Viewer Training would be incorporated in HKIC full-time short programmes and more basic BIM training would be offered to secondary school teachers and students in 2023.

4.8 ★Progress of the Task Force on BIM Submissions to the Buildings Department

Members took note of *Paper CIC/BIM/P/042/22*.

The progress of the Task Force on BIM Submissions to the Buildings Department (TF-BSBD) was presented under the starred paper.

AF, Chairperson of the TF-BSBD, updated Members on the progress of the TF-BSBD.

Members noted that the documentation and corresponding reference materials would tentatively be published in Q1 2023 for reference by the industry.

4.9 ★ Tentative Meeting Schedule for Year 2023

Members took note of *Paper CIC/BIM/P/043/22*.

The tentative meeting schedule for Year 2023 was presented under the starred paper.

4.10 Any Other Business

(a) Updates on making BIM model contractually binding in capital works projects

Mr. Boris YIU, representative from DEVB, was not available to present this item in this meeting due to other engagement.

(b) BIM Network

BIM Network would be held in the afternoon on 16 January 2023 (Monday). AF invited Members to join this event and suggested discussing the following items:

(i) invited DEVB to present the updates on making BIM model contractually binding in capital works projects;

(ii) shared the views on how Members promoted the BIM viewers, their plan for adopting the latest BIM Beginners Guides and BIM training etc.

All to note

(c) Vote of thanks to Ar. Prof. Ada FUNG

AF had been the Chairperson of Com-BIM since 2017 and this was her last meeting to chair Com-BIM. Members gave a vote of thanks to her for her contributions in promotion and adoption of BIM in Hong Kong.

4.11 Date of Next Meeting

The next meeting was scheduled for 28 March 2023 (Tuesday) at 2:30pm at Board Room, 29/F, Tower 2, Enterprise Square Five (MegaBox), 38 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong. **All to note**

There being no further business, the meeting was adjourned at 5:18pm.

**CIC Secretariat
December 2022**