

Construction Industry Council

Committee on Building Information Modelling

Meeting No. 004/21 of the Committee on Building Information Modelling (Com-BIM) was held on Tuesday, 14 December 2021 at 2:30pm at the Board Room, 29/F, Tower 2, Enterprise Square Five (MegaBox), 38 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong.

Present	: Ada FUNG Yin-suen	(AF)	Chairperson
	Antonio CHAN Chi-ming	(ACHAN)	
	Neo CHAN Kang-yuen	(NCKy)	
	Jack CHENG Chin-pang	(JCCp)	
	Ivan FU Chin-shing	(FI)	
	Francis LEUNG Chi-suen	(FLCs)	
	Billy WONG Chi-pan	(BWCb)	
	Kelvin WONG Ka-wo	(KWKw)	
	Michael WONG Wai-lun	(MWWL)	
	Rosana WONG Wai-man	(RnWg)	
	Thomas CHAN Tak-yeung	(CTY)	Principal Assistant Secretary (Works) 3, Development Bureau
	Tommy TAM Wing-cheung	(WCT)	Assistant Director/Corporate Services, Buildings Department
In Attendance	: CHAN Ka-kui	(KKCh)	CIC Chairman
	Marcin KLOCEK	(mK)	Chairperson of the Task Group 1 on BIM Specifications
	SO Ching	(CSO)	Co-Chairperson of the Task Group 2 on BIM Special Conditions of Contract & Services Agreement
	Daniel SUEN	(DSn)	Director - Industry Development
	Alex HO	(AHKK)	Assistant Director - Industry Development
	Daniel CHIU	(D1C)	Principal - School of Professional Development in Construction (Acting)
	Sunny CHOI	(SLC)	Manager - Industry Development
	Serina LAU	(SLau)	Manager - Industry Development

	Ron NG	(RNCw)	Manager - Industry Development
	George WONG	(GWck)	Manager - Industry Development
Apologies	: Donald CHOI Wun-hing	(DC)	
	Clement CHUNG	(CtCg)	
	CHUNG Kwok-fai	(CKFi)	
	Eric POON Shun-wing	(EPSW)	

MINUTES

Action

Before the meeting, AF welcomed KKCh, CIC Chairman to attend the meeting and reminded Members to declare conflict of interest, if any.

4.1 Confirmation of Minutes of the Previous Meeting

Members took note of the Paper CIC/BIM/M/003/21 and confirmed the Minutes of Meeting No. 003/21 of the Com-BIM held on Thursday, 30 September 2021.

4.2 Matters Arising from the Previous Meeting

Members received the progress report on matters arising from the previous meeting, circulated on 7 December 2021 and highlighted as follows, with no further comments:

Item 3.2 on the CIC BIM Space - both Chinese and English presentation materials of the Awareness Seminar and Workshop were uploaded to the CIC BIM Portal on 13 December 2021.

Item 3.3 on the “BIM-Automation of Gross Floor Area (GFA) Calculation, Fire Safety and Prescribed Checking for General Building Plans (GBP) Preparation” Research Project – the CIC Secretariat promoted the research deliverables (the “tool”) to the Real Estate Developers Association of Hong Kong (REDA) through meeting on 8 October 2021, and thereafter to the Hong Kong Institute of Surveyors (HKIS) and Hong Kong Institute of Architects (HKIA) through webinars on 18 November and 25 November 2021 respectively. A webinar for launching the tool would also be held on 22 December

2021. The tool has been included in the CITF pre-approved list of BIM software.

Item 3.4 on the CIC BIM Guide for Using BIM in Generation of Mechanical, Electrical and Plumbing (MEP) Digital Drawings for Statutory Submissions – the CIC Secretariat invited the Hong Kong Federation of Electrical and Mechanical Contractors Limited (HKFEMC) to attend briefing sessions on 29 November, 1 December and 6 December 2021. Online training materials would be developed from the content of the training workshops for practitioners to learn at their own schedule.

Item 3.5 on the Task Force on BIM Standards (TF-BS) – the CIC Secretariat promoted the tool as raised in item 3.3 above in the meeting of Task Force on BIM Submissions to the Buildings Department (TF-BSBD) on 2 December 2021.

Item 3.6 on the Task Force on BIM Training (TF-BT) – the CIC Secretariat invited HKFEMC and other organisations in the CIC-BIM Network to use the teaching and learning kit for BIM viewer training. GWCK supplemented that Ir HON Chi-keung, Chief Executive and Secretary of the Hong Kong Institution of Engineers (HKIE) and Ir Davis WONG, Director of the HKIE were approached by the CIC Secretariat for visiting i-Hub as well as BIM training support to HKIE members.

Item 3.8 on the TF-BSBD – the CIC Secretariat invited Com-BIM Members to attend the TF-BSBD meeting on 2 December 2021. A lunch meeting on the discussion of eco-system in BIM adoption was held at the CIC BIM Space on 26 October 2021.

Item 3.11 on exploring the inclusion of BIM as contractual documents under Development Bureau (DEVB)'s contracts - DEVB was reviewing the relevant conditions of contract and conditions of tender for public works, aiming at binding the adoption of BIM models contractually. After incorporating the comments from works departments, DEVB would arrange legal vetting of the revised contract documents before consulting construction industry stakeholders around mid-2022. A number of pilot projects would be arranged for trial afterwards.

4.3 Applications for the CIC R&D Fund

Members took note of Paper CIC/BIM/P/027/21, noting that this was the first time for the CIC Secretariat elaborating to Members on all 11

applications.

JCCp declared that he is the project in-charge of the research proposal of the “Automated Clash-free Rebar Design in Concrete Structures with Parametric BIM and Deep Learning”. AF decided JCCp could continue to attend the meeting and provide comments on other applications for the CIC R&D fund, whilst abstaining from discussion on his own research proposal.

SLC reported that the CIC received 11 research proposals related to BIM in 2020-2021. It was a new policy that all these research proposals should be cleared by the end of each year. Based on the three key assessment criteria (value of research, cost-effectiveness and research implementation) as stipulated in the CIC Research Policy, two research projects were approved in the past and no research proposal was recommended by the CIC Secretariat in the current paper upon initial assessment.

Upon deliberations, some Members suggested to revisit the submission guidelines and provide the future applicants with the CIC roadmap(s)/ directions for their preparation of proposals accordingly. AF further suggested that the CIC Secretariat should identify any applications received being worth further consideration, and follow up with the corresponding researchers on the possibility of resubmission in the following year upon engagement of real-life projects or practitioners for supporting their proposal.

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The proposed research agenda for the next round of applications should be more specific for each proposed area. The CIC Secretariat would send the revised research agenda to Members for comments by the end of December 2021. AF suggested to arrange a separate session for further discussion.

Members approved the initial assessment of the research proposals received.

(CSO left the meeting at 3:30pm)

[Post-meeting note: The CIC Secretariat sent the revised research agenda for the next round of applications to Com-BIM Members for comments by email on 24 December 2021 and discussed with Ar. Ada FUNG on 7 January 2022. The revised research agenda for the next round of applications was finalised on 13 January 2022.]

4.4 Signing a Memorandum of Understanding with Two Higher Education Institutions to Introduce Knowledge of Building Information Modelling (BIM) and Construction Digitalisation into Higher Education

Members took note of Paper CIC/BIM/P/028/21.

GWCK reported that the CIC has signed the Memorandum of Understanding (MoU) with nine Higher Education Institutions, aiming at enhancing BIM training in higher education since December 2017. It was proposed to sign MoU with the School of Science and Technology, Hong Kong Metropolitan University (HKMU) and the School of Professional and Continuing Education under the University of Hong Kong (HKU SPACE), for collaboration on the development of BIM and construction digitalisation courses in their construction-related programmes.

Members approved the signing of the MoU with the HKMU and HKU SPACE.

4.5 Issuance of CIC BIM Standards Publications

Members took note of Paper CIC/BIM/P/029/21.

JCCp, Chairperson of the Task Force on BIM Standards (TF-BS), reported that the final draft version of the BIM deliverables of the consultancy services for “Development & Formulation of BIM Guide for Using BIM in Generation of MEP Digital Drawings for Statutory Submissions” (Paper CIC/BIM/P/026/21) was approved in principle by the Com-BIM through circulation on 23 November 2021. He also presented the framework/ hierarchy of the CIC BIM publications for Members’ information.

After deliberations, AF suggested the following arrangement:

- (a) each Member to provide one example on how his/ her organisation used/ would use the CIC BIM Standards and publications (e.g. CIC BIM Exchange Information Requirements (EIR) Template (BIM Specifications), CIC BIM Special Conditions of Contract (SCC) and CIC BIM Services Agreement (SA)) in the past/ in future;
- (b) CTY to mention the BIM Harmonisation Guidelines was incorporated with the CIC BIM Standards in a Technical Circular to be issued in December 2021;

All to note

CTY

- (c) large organisations (such as Airport Authority Hong Kong, MTR Corporation) to align their organisational BIM Standards with the latest CIC BIM Standards as positioned at regional level; and **All to note**
- (d) the CIC Secretariat to arrange a separate session with JCCp, TF-BS and Com-BIM Members with interest in facilitating the users to adopt the CIC BIM Standards. **CIC Secretariat**

Members approved in principle the issuance of the following CIC BIM Standards publications:

- (a) CIC BIM for Asset Management & Facility Management Case Sharing (2021);
- (b) CIC BIM Dictionary (2021);
- (c) CIC BIM Standards for Underground Utilities (Version 2 – 2021);
- (d) CIC BIM Standards for Mechanical, Electrical and Plumbing (Version 2–2021);
- (e) CIC BIM Standards for Architecture and Structural Engineering (Version 2.1 – 2021); and
- (f) CIC Production of BIM Objects Guide – General Requirements (Version 2–2021).

The publications can be downloaded in the CIC BIM Portal: <https://www.bim.cic.hk/en/resources/publications>.

4.6 Update on Progress Reports

Members took note of Paper CIC/BIM/P/030/21.

AHKK presented the progress report on the BIM Certification and Accreditation Schemes, progress updates of the Construction Digitalisation Department (including key events/ projects in the coming months), and status summary on all the ongoing consultancies and research projects under the Com-BIM.

4.7 Progress of the Task Force on BIM Standards

Members took note of Paper CIC/BIM/P/031/21.

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

the TF-BS, including deliberations on potential development of the CIC BIM Standards in the next year at the meeting on 17 November 2021. JCCp would report the progress in the next Com-BIM meeting.

4.8 Progress of the Task Force on BIM Training

Members took note of Paper CIC/BIM/P/032/21.

GWCK, on behalf of the Chairperson of the TF-BT, updated Members on the progress of the TF-BT.

Upon deliberations, AF suggested the CIC Secretariat to keep track of the number of BIM viewers trained by CIC-Certified BIM Managers (CCBMs) and CIC-Certified BIM Coordinators (CCBCs) who have completed the Train-the-Trainer courses.

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CTY reminded the CIC Secretariat to establish register of BIM personnel for monitoring the demand and supply in CCBCs, CCBMs, BIM modellers and BIM viewers. AF suggested to keep track of the training seats provided by the training service providers as well.

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(FI left the meeting at 5:03pm)

(KWKw left the meeting at 5:05pm)

(RnWg left the meeting at 5:18pm)

(DSn left the meeting at 5:40pm)

4.9 ★Progress of the Task Force on BIM Specifications and Agreement

Members took note of Paper *CIC/BIM/P/033/21*.

The progress of Task Force on BIM Specifications and Agreement (TF-BSA) was presented under the starred paper, including the progress of the Task Group 1 on BIM Specifications and Task Group 2 on BIM Special Conditions of Contract & Services Agreement.

AF, Co-Chairperson of the TF-BSA, updated Members on the progress of the TF-BS and suggested the CIC Secretariat to keep track of projects using the publications as a pilot and report in the next meeting.

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[Post-meeting note: Dissolution of the TF-BSA was approved by the Com-BIM through circulation on 24 January 2022 as the tasks have been completed (Paper CIC/BIM/P/002/22).]

4.10 Progress of the Task Force on BIM Submissions to the Buildings Department

Members took note of Paper CIC/BIM/P/034/21.

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

4.11 Any Other Business

(a) Construction Digitalisation Roadmap (CDR)

A lunch meeting with Com-BIM Members on exploring the way forward for the CDR was held on 14 December 2021 before the Com-BIM Meeting. AF suggested the CIC Secretariat to arrange separate meetings to discuss the details of CDR.

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(b) Construction Innovation and Technology Fund (CITF)

AHKK reported that the briefing session on CITF enhancement measures would be held on 23 December 2021. All Members are invited to join.

All to note

(c) Retirement of the CIC Chairman

KKCh stated that it was his last time to attend Com-BIM Meeting as his term of office of the CIC Chairman would be completed in late January 2022. He expressed gratitude to Members for their continuous support and contributions on Com-BIM. In addition to Modular Integrated Construction (MiC), Design for Manufacture and Assembly (DfMA) and Multi-trade Integrated MEP (MiMEP), he expected that BIM could also have contribution to the transformation of traditional mode of construction. Digitalisation is the main focus of the CIC while BIM is a main part of digitalisation. He reminded all Members to take care of workers in mind, put more effort on worker safety and work efficiency.

AF expressed her gratitude to the support and guidance from KKCh in the past. She also expressed her appreciation to the contribution from FI as his term of office would be up to late January 2022.

As the year 2021 was approaching its end, AF thanked all Members for their contributions on Com-BIM in the past and wished everyone a Merry Christmas and a Happy New Year.

There being no further business, the meeting was adjourned at 6:00pm.

**CIC Secretariat
December 2021**