Construction Industry Council

Committee on Building Information Modelling

Meeting No. 001/23 of the Committee on Building Information Modelling (Com-BIM) was held on Tuesday, 28 March 2023 at 2:30pm at Board Room, 29/F, Tower 2, Enterprise Square Five (MegaBox), 38 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong.

Present	: Jack CHENG Chin-pang	(JCCp)	Chairperson
	Antonio CHAN Chi-ming*	(ACHAN)	
	Donald CHOI Wun-hing	(DC)	
	FUNG Chi-yiu*	(FCY)	
	Eric POON Shun-wing	(EPSW)	
	Samson PUNG Chun-nok	(SnP)	
	Ole WONG Ming-yan	(OWMY)	
	Kevin WONG Sai-choi	(KWg)	
	YIP Yin-yung*	(YYY)	
	Sandy FONG Wing-shan (On behalf of Mr. Alfred WONG Kwok-fai)	(SaF)	Assistant Secretary (Works Policies 3) 5, Development Bureau
	Tommy TAM Wing-cheung	(WCT)	Assistant Director/ Corporate Services, Buildings Department
In Attendance	: Albert CHENG	(CTN)	Executive Director
	Robert CHAN	(RCCM)	Director - Industry Development
	Alex HO	(AHKK)	Assistant Director - Industry Development
	George WONG	(GWCk)	Senior Manager - Industry Development
	Eros LAM	(ELLT)	Manager - Management Support
	Greg CHAN	(GgC)	Manager - Industry Development
	Senia HO	(SnHO)	Manager - Corporate Secretariat
	Ion CHAN	(InSC)	Manager - Industry Development
	Shirley LAM	(SHLm)	Manager - Industry Development
	Ron NG*	(RNCw)	Manager - Industry Development

Ella POON*	(EPn)	Assistant Manager - Industry Development
Kacy CHONG	(KC)	Assistant Manager - Industry Development
Rebecca LEE	(RbL)	Officer II - Industry Development

Apologies	:	Aaron CHAN Wing-kai	(WKCn)	
		CHUNG Kwok-fai	(CKFi)	
		TANG Man-hei	(MHT)	
		Kelvin WONG Ka-wo	(KWKw)	
		Michael WONG Wai-lun	(MWWL)	
		Rosana WONG Wai-man	(RnWg)	
		Alfred WONG Kwok-fai	(WKF)	Principal Assistant Secretary (Works) 3, Development Bureau
		Sunny CHOI	(SLC)	Manager - Industry Development
		Lawrence LEUNG	(LLTY)	Manager - Industry Development

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

MINUTES

Action

JCCp welcomed CTN, Executive Director of the CIC and all Members to attend the meeting.

JCCp reminded Members to declare conflict of interest, if any. He declared he was the project-in-charge for two of the research proposal applications in Agenda 1.3, which was submitted for approval in this meeting.

(ACHAN attended the meeting at 2:46pm)

1.1 Confirmation of Minutes of the Previous Meeting

Members took note of Paper CIC/BIM/M/004/22 and confirmed the Minutes of Meeting No. 004/22 of the Com-BIM held on Tuesday, 6 December 2022.

1.2   Matters Arising from the Previous Meeting

Members received the progress report on matters arising from the previous meeting, circulated on 21 March 2023 with no further comments:

(a)   Item 4.6 – Progress of the Task Force on BIM Standard (TF-BS)
   (i)   The TF-BS would discuss and consider to develop simple reference guides/ beginner's guides to raise the awareness of cybersecurity in the industry.   **TF-BS**
   (ii)   The TF-BS would further discuss on the issue of misunderstanding of the definition of Common Data Environment (CDE) in the industry. The CIC Secretariat's initial understanding was that there were two levels of CDE, the first one was CDE for information management using BIM with reference to the international standard "ISO 19650", the second one was an integrated CDE platform for facilitating overall project supervision and management.

(b)   Item 4.10 – Any Other Business – Updates on making BIM model contractually binding in capital works projects
   SaF reported that the Development Bureau (DEVB) invited the Works Departments in the third quarter of 2022 to select some pilot projects for trial run of including BIM model as part of the tender information and making it contractually binding. The DEVB would perform a holistic review in early 2024 for consideration of the way forward of this initiative in capital works projects. The CIC Secretariat had been closely liaised with the DEVB to facilitate the progress by sharing the latest information in the industry.

1.3   Applications for the CIC Research and Technology Development Fund

Members took note of Paper CIC/BIM/P/002/23.

GWCk briefed Members on the updates of the revised research proposals. Members approved the following research proposal applications with reference to the revised research proposals which fulfilled the condition(s) set in Meeting No. 003/22 of the Com-BIM:

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

(b)   Automatic Generation of Bill of Quantities from BIM Drainage Network in accordance with Standard Method Measurement for

Civil Engineering Works

Having regard to the nature of the research project, JCCp suggested that the research team could submit a new project proposal under Collaborative Project Scheme (CPS) instead of KPI Improvement Project Scheme (KPIS).

EPSW agreed that the applicant might consider to submit research proposal under CPS which the applicant could choose to own the IP right or co-owned it with the CIC.

After deliberation, Members disapproved the following research proposal application submitted via KPIS:

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

The research team of research proposal application (c) would be encouraged to submit the application via CPS.

1.4   Progress Reports on the Committee on Building Information Modelling

Members took note of Paper CIC/BIM/P/003/23.

GWCk briefed Members on the key points of the Progress Report of 2023 KPI, 2023 actual expenditure vs budget and proposed key initiatives for 2024 budget.

JCCp commented that the latest status of No. 3 "Approve 200 CIC-Certified BIM Managers (CCBMs) and 1,000 CIC-Certified BIM Coordinators (CCBCs)" of 2023 KPI was far behind the target and suggested to review the application progress, applicants' qualifications and their interview performance.

GWCk supplemented that the CIC Secretariat put much effort to attract practitioners to apply for certification of CCBMs and CCBCs. To boost the number of CCBMs and CCBCs, the "White Paper on BIM Personnel Development in Hong Kong" (White Paper) was published with the announcement of the new CIC-Certified BIM Coordinator (Associate) (CCBC(A)). The CIC Secretariat visited organisations/ companies to encourage their members/ employees to apply for certification of CCBMs, CCBCs and CCBC(A)s.

CTN shared the insight from a BIM training provider that practitioners were reluctant to enrol the CIC-Accredited BIM Manager or BIM

Coordinator courses and apply for certification of CCBMs or CCBCs. The qualification of CCBMs or CCBCs provided no significant benefit to their career advancement. The respective KPI could be reviewed with reference to the real situation in the industry.

To align with the White Paper published on 22 March 2023, Members agreed to review No. 3 "Approve 200 CCBMs and 1,000 CCBCs" of 2023 KPI. The CIC Secretariat would submit a paper for Members' endorsement by circulation.

CIC Secretariat

FCY shared that members of Hong Kong Construction Association were recommended to submit applications to the CIC for accreditation of in-house BIM Managers and BIM Coordinators courses. He also opined that the number of certified CCBC(A) should be counted for achievement of the KPI in 2023. The BIM practitioners who were reluctant to apply for certification of CCBMs or CCBCs would be given opportunities to be certified as CCBC(A), which helped to provide the actual number of BIM practitioners in the industry.

CTN shared his observation during the visit to Chongqing. He noticed that Artificial Intelligence (AI), such as robotics and dashboard analysis, could be adopted in the construction industry. He suggested that Members might brought out some ideas on which kind of AI should be promoted and covered in one of the key initiatives for 2024 budget.

JCCp invited KWg to share the details of the BIM Automation Arena organised by the Hong Kong Institute of Building Information Modelling (HKIBIM) on 31 March 2023. The event provided a platform for talents and experts from different sectors to showcase their applications on plug-ins and automation. The Task Force on Development of BIM-related Digital Solutions (TF-DBDS) would discuss with HKIBIM after the event and explore the feasibility to transform those good submissions into digital solutions.

TF-DBDS

EPSW suggested the part of the training budget could be utilised for universities to ensure students to be well-trained or even certified before they started their career in the construction industry. The Task Force of BIM Training (TF-BT) would explore and follow up accordingly.

TF-BT

AHKK supplemented that a Hackathon would be co-organised with MIT Hong Kong Innovation Node and Hong Kong Productivity Council in May 2023 with "Construction Safety" as the main theme. Practitioners from organisations in different sectors would be welcomed to join the event. Details of the event would be shared with

Members.

[Post-meeting note: the Hackathon had been postponed to June 2023 in consideration of the examination period of higher education institutions.]

(FCY left the meeting at 3:55pm)

1.5 **New Membership and Updated Terms of Reference for Task Force on BIM Standards, Task Force on BIM Submissions to the Buildings Department, Task Force on BIM Training and Task Force on BIM Personnel Development**

Members took note of Paper CIC/BIM/P/004/23.

GWCk briefed Members on the new membership list and amendment to the Terms of Reference (ToR).

GWCk highlighted a typo on the proposed new membership list of TF-BT. The name of Member no.12 should be **"Kevin WONG Sai-choi"** instead of "Kelvin WONG Ka-wo".

JCCp supplemented that the BIM standards on harmonisation would be developed and promoted to the industry. Therefore, public officers of government departments including the DEVB, Buildings Department and Lands Department, would be invited as members of the TF-BS.

Members approved the new membership list and the updated TOR for TF-BS, TF-BSBD, TF-BT and Task Force on BIM Personnel Development (TF-BPD) with further amendments as listed below:

a) ToR no. 2 of TF-BS – "To prepare, develop, promote and **encourage** adoption by industry the BIM standards, common practices, or reference document as identified and prioritised."

b) ToR no. 4 of TF-BSBD –"To develop, promote and **encourage** adoption of plug-in and the like supporting tools for BIM applications."

The terms of office for TF-BS, TF-BSBD and TF-BT would be from 28 March 2023 to 31 January 2025 to align with the Com-BIM.

(CTN left the meeting at 4:16pm)

1.6 **Progress Updates of the Construction Digitalisation Department (including key events/ projects in coming months)**

Members took note of Paper CIC/BIM/P/005/23.

GWCk briefed Members on the progress updates of the Construction Digitalisation Department including key events/ projects in coming months. He highlighted that the "CIC Global Construction Sustainability Forum and Exhibition" would be held on from 20 to 23 November 2023. Members were encouraged to participate in the Forum and Exhibition.

AHKK shared the experience in participating the "2023 International Conference on Construction Innovation" in Chongqing China. The Chinese Central Government was supportive to the training on the use of robotics in automation and intelligent construction in universities.

1.7 **Progress of the Task Force on BIM Training**

Members took note of Paper CIC/BIM/P/006/23.

GWCk briefed Members on the progress of the TF-BT.

1.8 **Progress of the Task Force on BIM Personnel Development**

Members took note of Paper CIC/BIM/P/007/23.

Dr. Neo CHAN, Co-Chairperson of the TF-BPD, updated Members on the progress of the TF-BPD. The White Paper was published via a webinar held on 22 March 2023. Details of CCBC(A) was announced on the same date.

(Dr. Neo CHAN attended the meeting at 4:40pm)

1.9 **Progress Report on the BIM Certification and Accreditation Schemes**

Members took note of Paper CIC/BIM/P/008/23.

GWCk briefed Members on the progress report on the BIM Certification and Accreditation Schemes.

(Dr. Neo CHAN left the meeting at 4:59pm)

1.10 **Progress of the Task Force on Development of BIM-related Digital**

Solutions

Members took note of Paper CIC/BIM/P/009/23.

AHKK briefed Members on the progress of the TF-DBDS and highlighted that the development of digital solutions should preferably be focusing on the openBIM approach and model auditing/ checking.

The CIC Secretariat invited Strategic Building Innovation (SBI) to present their research proposal in developing an openBIM quality platform, which matched with the direction by the TF-DBDS. Members raised questions and comments on the proposal. SBI would revise their research proposal with reference to the comments given by Members and submit the application for the CIC Research and Technology Development Fund.

(Dr. Calvin KAM, Ms. Joy LI and Mr. Dickson MAK of SBI attended the meeting at 17:04pm and left the meeting at 17:28pm)

1.11 ★**Progress of the Task Force on BIM Standards**

Members took note of Paper CIC/BIM/P/010/23.

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

1.12 **Progress of the Task Force on BIM Submissions to the Building Department**

Members took note of Paper CIC/BIM/P/011/23.

GWCk briefed Members on the progress of the TF-BSBD and highlighted that the reference materials namely "CIC Reference Materials on Good Practices in Submissions with BIM to the Buildings Department" was drafted for comment by the Buildings Department. The reference materials would be submitted to Com-BIM for approval when ready. **TF-BSBD**

JCCp suggested the CIC Secretariat to share the experience collected from the pilot projects to the industry via webinars. **CIC Secretariat**

1.13 **Date of Next Meeting**

The next meeting was scheduled for 27 June 2023 (Tuesday) at 2:30pm at Board Room, 29/F, Tower 2, Enterprise Square Five (MegaBox), 38 Wang Chiu Road, Kowloon Bay, Kowloon, Hong **All to note**

Kong.

There being no further business, the meeting was adjourned at 5:34pm.

CIC Secretariat
March 2023