

Construction Industry Council

Committee on Building Information Modelling and Construction Digitalisation

Meeting No. 004/23 of the Committee on Building Information Modelling and Construction Digitalisation (Com-BIM & CD) was held on Tuesday, 5 December 2023 at 2:30pm at Board Room, 29/F, Tower 2, Enterprise Square Five (MegaBox), 38 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong and through web meeting.

Present	: Jack CHENG Chin-pang (JCCp)	Chairperson
	Antonio CHAN Chi-ming* (ACHAN)	
	Aaron CHAN Wing-kai* (WKCn)	
	CHUNG Kwok-fai (CKFi)	
	FUNG Chi-yiu* (FCY)	
	Eric POON Shun-wing (EPSW)	
	Samson PUNG Chun-nok* (SnP)	
	Ole WONG Ming-yan* (OWMY)	
	Kelvin WONG Ka-wo (KWKw)	
	Kevin WONG Sai-choi (KWg)	
	Rosana WONG Wai-man (RnWg)	
	Sandy FONG Wing-shan (SaF)	Assistant Secretary
	(On behalf of Mr. Alan TANG Kai-yan)	(Works Policies 3) 5,
	Karen CHEUNG Yuk-ching (KCyc)	Development Bureau
		Assistant Director/ New
		Buildings 1, Buildings
		Department
In Attendance :	Andy CHAN Lai-chun* (AClc)	Assistant Secretary
		(Project Capability and
		Strategy) 6, Development
		Bureau
	George WONG (GWck)	Senior Manager -
		Industry Development
	Ron NG (RNCw)	Principal - School of
		Professional
		Development in
		Construction (Acting)
	Eros LAM* (ELLT)	Manager – Management
		Support
	Greg CHAN (GgC)	Manager – Industry
		Development

	Ion CHAN	(InSC)	Manager – Building Information Modelling
	Sunny CHOI	(SLC)	Manager – Industry Development
	Lok FUNG	(LF)	Manager – Industry Development
	Lawrence LEUNG	(LLTY)	Manager – Industry Development
	Ella POON	(EPn)	Manager – Industry Development
	Kacy CHONG	(KC)	Assistant Manager – Industry Development
	Rebecca LEE	(RbL)	Officer II – Industry Development
Apologies	: Donald CHOI Wun-hing	(DC)	
	Barry SUM Pang-tuen	(BSPT)	
	TANG Man-hei	(MHT)	
	Alan TANG Kai-yan	(ATKY)	Principal Assistant Secretary (Works) 3, Development Bureau
	Michael WONG Wai-lun	(MWWL)	
	YIP Yin-yung	(YYY)	
	Alex HO	(AHKK)	Director - Industry Development

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

MINUTES

Action

JCCp welcomed all Members to attend the meeting and welcomed ATKY, a successor to the position of the Principal Assistant Secretary (Works) 3 of the Development Bureau, to join the committee. He expressed his sincere appreciation to Mr. Alfred WONG for his support to the committee during his tenure.

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

4.1 Confirmation of Minutes of the Previous Meeting

Members took note of Paper CIC/BIM/M/003/23 and confirmed the Minutes of Meeting No. 003/23 of the Com-BIM & CD held on Tuesday, 26 September 2023.

4.2 Matters Arising from the Previous Meeting

Members received the progress report on matters arising from the previous meeting circulated on 28 November 2023 and highlighted as follows, with no further comments:

Item 3.3 Applications for the CIC Research and Technology Development Fund

Upon deliberation, Members agreed to disapprove the proposal of “Construction Progress Monitoring Using Laser Scanning and BIM Technology” as the proposal did not possess building services elements and that similar products are available in the market.

Item 3.8 Progress Report on the BIM Certification and Accreditation Schemes (BIMCAS)

RnWg recommended the CIC to consider promoting training to Greater Bay Area (GBA) practitioners for the CIC-Certified BIM Manager (CCBM)/ CIC-Certified BIM Coordinator (CCBC) to enhance the ability of GBA practitioners to provide BIM support on projects in Hong Kong’s companies. JCCp agreed that the CIC could prioritise GBA practitioners who oversaw Hong Kong Projects (rather than those GBA practitioners not working on Hong Kong Projects) while promoting training in GBA.

SLC agreed with JCCp and emphasised the importance of distinguishing training and certification while facilitating the GBA practitioners to become CCBM/ CCBC. The CIC Secretariat has been following up on the possibility on promoting training and certification to GBA practitioners.

Item 3.12 Any Other Business

(a) The buildingSMART International Standards Summit - Lillestrøm 2023

GWCK highlighted the experience sharing of the trip in a panel discussion session of the Hong Kong Alliance of Built Asset &

Environment Information Management Associations' (HKABAEIMA) 4th Anniversary Event on 1 December 2023 at the CIC Digital Twin Hub. The report would be finalised and shared to Members by circulation. Thereafter, the report would be submitted to the Council for information.

- (c) To engage suppliers/ manufacturers to offer their equipment family members in LOD400 for the industry

ACHAN supplemented that the Council of the Hong Kong Federation of Electrical and Mechanical Contractors Limited (HKFEMC) had been reorganised. He would prioritise the work and collaborate closely with the CIC to drive this initiative. In addition, it was targeted to engage more HKFEMC members to join the first session of BIM course offered by the School of Professional Development in Construction (SPDC) in 2024.

(AClc left the meeting at 2:47pm)

4.3 Progress Reports on the Committee on Building Information Modelling and Construction Digitalisation

Members took note of Paper CIC/BIM/P/035/23.

GWCK briefed Members on the progress report of 2023 Major KPIs as highlighted below:

- (a) 2023 Major KPI no. 1 “Increase to 60% adoption of Common Data Environment (CDE) for all over HK\$300m projects commerce in 2023”

GWCK explained to Members that over 80% of projects, with contract sum over HK\$300M, had adopted either CDE or DWSS according to the result from the adoption survey 2023, which achieved the captioned 2023 Major KPI.

- (b) 2023 Major KPI no.2 “Train at least 300 and 1,200 practitioners respectively with knowledge required for CCBM’s and CCBC’s applications”

GWCK highlighted that the training figures would be updated by course providers in a quarterly basis.

SLC supplemented that BIMCAS Secretariat had compromised with course providers to update the training figures in a quarterly

basis and figures would be updated by December 2023. He also explained the time constraints of industry practitioners to apply for the CCBC training which led gradual increase in the training number of CCBC.

- (c) 2023 Major KPI no. 3 “Approve 60 CCBMs, 200 CCBCs and CCBC(A)s

GWck reported that both KPIs on number of CCBMs and CCBCs had been achieved. SLC updated Members that the number of CCBC(A) applications reached 200 as of November 2023. It was learned from key stakeholders that more than 40 applications would be submitted in December 2023. With the high passing rate of CCBC(A) applications, it is expected to achieve in principle the KPI in 2023.

- (d) 2023 Major KPI no. 4 “Develop 5 BIM-related digital solutions such as plugins to automate workflow in construction projects, by engaging consultancies and/or facilitating CIC R&D Fund applications”

GWck reported that five projects were approved and undergoing the process of agreement signing. They were expected to be kicked off by December 2023.

- (e) 2023 Major KPI no. 5 “Publish a reference material on what additional information requirement of BIM models for reference by the industry (both public and private sectors), in support of Government’s initiative of developing CSDI and Smart City”

GWck suggested to Members that the CIC would publish a reference material to share additional information requirements of BIM model for reference by the industry, in particular, to be adopted in private projects. The practice would be similar to the adoption of BIM Harmonisation Guidelines for Works Department by the Development Bureau (DEVB) published in October 2021.

KCyc commented that the BIM Harmonisation Guidelines published by the DEVB were mandatory for Works Department. She suggested to further review if the guidelines were applicable to private works.

GWck mentioned that the CIC Secretariat would further consult opinions from relevant government departments and circulate the captioned reference materials to the Task Force on BIM Standard

(TF-BS) for endorsement. The reference materials would be circulated to the Com-BIM & CD for approval once ready.

(f) 2023 Major KPI no. 6 “Train 10,000 BIM Viewer”

LLTY updated Members that the number of BIM Viewers had already reached 10,000 as of 5 December 2023.

(g) 2023 Major KPI no. 8 “Increase to 40% adoption of Smart Site Management System for all over HK\$300m projects commence in 2023”

GWCK updated Member that the status had been updated from “on track” to “completed”. The CIC commissioned Arcadis to conduct the technologies adoption survey 2023. From the survey, over 60% of projects with contract sum over HK\$300M, adopted Smart Site Safety System that is considered as a type of Smart Site Management System.

(h) 2023 Major KPI no. 9 “Increase to 30 no. of Small and medium enterprise (SME) newly adopting BIM in 2023”

GWCK informed Member that the number of SMEs newly adopting BIM in 2023 might not reach 30 but the CIC Secretariat would keep on encouraging the SMEs to adopt BIM and apply for Construction Innovation and Technology Fund (CITF) via webinars to achieve the target in 2024.

JCCp suggested to arrange events/ webinars sharing targeted to SMEs with the members of BIM Network on encouraging BIM adoption in early 2024.

GWCK briefed Members on 2023 actual expenditure versus approved budget.

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

Members took note of Paper CIC/BIM/P/036/23.

GWCK briefed Members on the progress updates of the Construction Digitalisation Department including key events/ projects in coming months and the Task Force on Development of BIM-related Digital Solutions (TF-DBDS).

GWCK highlighted the proposed activities in 2024, including the “CIC BIM Competition 2024”, “CIC Global Construction Digitalisation Forum and Exhibition (GCDFE) 2024” and “CIC Construction Digitalisation Award Ceremony 2024”.

JCCp updated Members that the “CIC BIM Competition 2024” had been rescheduled from 14 – 15 June 2024 to 6 – 7 June 2024 as confirmed in the previous event organising committee meeting. He also highlighted the 2024 Conference of the China Graphic Society as one of the key events in 2024.

GWCK highlighted the CIC Construction Digitalisation Award 2024 (CD Award) and encouraged Members to promote the competition and submit their application.

KWg and RnWg opined that the CD Award should cover the life cycle of digitalisation instead of focusing on only Digital Twin. It would attract practitioners involved in the life cycle of digitalisation to join the competition if the assessment categories would be broadened. JCCp suggested the CIC Secretariat to convey the idea to the event organisation committee for consideration.

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To extend our heartfelt gratitude for the always support and invaluable contributions, JCCp invited Members to join the Appreciation Dinner on 15 January 2024.

(FCY left the meeting at 3:52pm)

4.5 Progress of the Task Force on BIM Training

Members took note of Paper CIC/BIM/P/037/23.

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

(OWMY and SnP left the meeting at 3:56pm)

4.6 Progress Report on the BIM Certification and Accreditation Schemes

Members took note of Paper CIC/BIM/P/038/23.

SLC briefed Members on the progress report on the BIM Certification and Accreditation Schemes (BIMCAS).

SaF would like to follow up on the status of establishment of certification scheme by The Hong Kong Institute of Surveyors (HKIS).

SLC reported that HKIS might not be able to establish the certification scheme for CCBM/ CCBC with the CIC under a streamlined assessment process due to resource issues. However, HKIS would set up a task force to address the issue and to set up a roadmap to accomplish the task. Formal reply from HKIS was being awaited.

4.7 ★Progress of the Task Force on BIM Standards

Members took note of Paper *CIC/BIM/P/039/23*.

The progress of the TF-BS was presented under the starred paper.

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

Members took note of Paper *CIC/BIM/P/040/23*.

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

GWCK updated Members on the progress of TF-BSBD on behalf of the Chairperson of TF-BSBD. He highlighted the survey and interviews conducted with Members of TF-BSBD on the views of BIM submissions to the BD. The TF-BSBD would arrange meetings with Chairpersons of the Com-BIM & CD and other Task Forces to address the issues.

TF-BSBD

SaF supplemented that as requested by the Chairperson of TF-BSBD, the details of survey results had been shared to the responsible officers in the Planning and Lands Branch of DEVB, for their information.

4.9 ★Tentative Meeting Schedule for Year 2024

Members took note of Paper *CIC/BIM/P/041/23*.

The tentative meeting schedule for Year 2024 was presented under the starred paper.

4.10 Any Other Business

(a) BIM Funding Application Statistics

GWCK highlighted the increment on the funding application and amount on the CITF on the BIM training and BIM adoption had been slowed down from December 2021 to September 2023.

WKCn shared the views from industry practitioners that they were not confident to adopt BIM as they might not be adept at using BIM and believed that their own skill sets were more effective and reliable.

RnWg echoed and shared her observations that no pull factors or urgency for subcontractors to use their resources and engage their employees in BIM training and adoption.

GWCK informed Members that a comprehensive BIM adoption survey would be conducted in 2024. Members' concerns were noted and would be further explored while conducting the survey.

EPSW shared the previous results on low BIM adoption rate on subcontractors from BIM adoption survey. He recommended to promote the benefit of adopting BIM, such as reducing manpower, facilitating tender process, payment, to the subcontractors.

ACHAN suggested to have a meeting with Members of HKFEMC, especially SMEs, and concerned party for promoting BIM adoption to the contractors and subcontractors. JCCp agreed to arrange a round-table meeting in January 2024.

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(b) CIC Research & Development Fund – Research Agenda 2024

GWCK introduced the Research Agenda of the CIC Research and Development Fund (R&D Fund) to Members with the proposed the topics in BIM research areas in 2024. Members agreed with no further comment.

(c) General Building Plan (GBP) Submission using BIM Technology

KCyc informed Members that the Hong Kong Government would promulgate a roadmap for full adoption of BIM in the preparation and approval of building plans for private development projects by the end of 2023 according to the Chief Executive's 2023 Policy Address. The Hong Kong Housing Society, the Urban Renewal

Authority and the MTR Corporation Limited would act as pioneers on adopting BIM in preparing building plans of residential projects.

She supplemented that a joint project of the BD and the Lands Department (LandsD) on the Plug-in Tools for Floor Areas Calculation Checking in General Building Plan (GBP) Submission using BIM would be launched in Q1 2024. It would facilitate the industry to develop single BIM model for both submissions to the BD and the LandsD. To support the industry, the BD had also prepared the GBP Calculators for automated calculation of gross floor area and site coverage and generation of standard schedules which could be readily imported and updated in the calculation sheets prepared by AutoCAD for submission to BD. These excel calculators were available on the BD's website.

(ACHAN left the meeting at 4:51pm)

4.11 Date of Next Meeting

The next meeting was scheduled for 26 March 2024 (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 5:26pm.

**CIC Secretariat
December 2023**