**Construction Industry Council**

**Committee on Building Information Modelling and Construction Digitalisation**

Meeting No. 003/23 of the Committee on Building Information Modelling and Construction Digitalisation (Com-BIM & CD) was held on Tuesday, 26 September 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) | |
| | FUNG Chi-yiu* | (FCY) | |
| | Samson PUNG Chun-nok | (SnP) | |
| | Barry SUM Pang-tuen | (BSPT) | |
| | Ole WONG Ming-yan* | (OWMY) | |
| | Kelvin WONG Ka-wo | (KWKw) | |
| | Kevin WONG Sai-choi | (KWg) | |
| | Michael WONG Wai-lun | (MWWL) | |
| | Rosana WONG Wai-man | (RnWg) | |
| | 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 |
| | Karen CHEUNG Yuk-ching | (KCyc) | Assistant Director/ New Buildings 1, Buildings Department |
| In Attendance : | Felix POON, Hiu-tung* | (FxP) | Assistant Secretary (Programme Management) 3, Development Bureau |
| | Albert CHENG | (CTN) | Executive Director |
| | Alex HO | (AHKK) | Director - Industry Development |
| | 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 |
| Lawrence LEUNG | (LLTY) | Manager - Industry Development |
| Ella POON | (EPn) | Manager - Industry Development |
| Lok FUNG | (LF) | Assistant Manager – Industry Development |
| Dino SO | (DSCb) | Assistant Manager – Industry Development |
| Kacy CHONG | (KC) | Assistant Manager - Industry Development |
| Rebecca LEE | (RbL) | Officer II - Industry Development |

| | | | |
|---|---|---|---|
| Apologies | : | Donald CHOI Wun-hing | (DC) |
| | | CHUNG Kwok-fai | (CKFi) |
| | | Eric POON Shun-wing | (EPSW) |
| | | TANG Man-hei | (MHT) |
| | | Alfred WONG Kwok-fai | (WKF) | Principal Assistant Secretary (Works) 3, Development Bureau |
| | | Ion CHAN | (InSC) | Manager - Building Information Modelling |
| | | Sunny CHOI | (SLC) | Manager - Industry Development |

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

## MINUTES

**Action**

JCCp welcomed all Members to attend the meeting.

JCCp reminded Members to declare conflict of interest, if any.
RnWg declared she was the project-in-charge for one of the research proposal applications in Agenda 3.3, which was submitted for approval in this meeting. JCCp informed RnWg to abstained from participating in the discussion for approval of respective research proposal application in agenda item 3.3.

**3.1 Confirmation of Minutes of the Previous Meeting**

Members took note of Paper CIC/BIM/M/002/23 and confirmed the Minutes of Meeting No. 002/23 of the Com-BIM & CD held on Tuesday, 27 June 2023.

**3.2 Matters Arising from the Previous Meeting**

Members received the progress report on matters arising from the previous meeting, circulated on 19 September 2023 and highlighted as follows, with no further comments:

Item 2.8 on the Progress report on the BIM Certification and Accreditation Scheme (BIMCAS)
YYY mentioned that the practitioners were reluctant to submit their applications for CIC-Certified BIM Manager (CCBM)/ CIC-Certified BIM Coordinator (CCBC) because the application forms and documents required for submission were complicated.

JCCp suggested the BIM Certification and Accreditation Board (BIMCAB) Secretariat to review the application documents and optimise the application procedures.

**BIMCAB Secretariat**

Item 2.11 on the Progress of the Task Force on BIM Submissions to the Buildings Department (TF-BSBD)
The CIC Secretariat would organise a webinar with the Buildings Department (BD) on introducing the "Guidelines for using Building Information Modelling in Statutory Plan Submissions (other than General Building Plan) 2023" by the end of 2023. KCyc supported the arrangement and recommended the CIC to invite the consultants involved to share the ideas and methodology in generating objects and sample models to the industry practitioners.

**CIC Secretariat**

**3.3 Applications for the CIC Research and Technology Development Fund**

Members took note of Paper CIC/BIM/P/025/23.

A presentation session on the research proposals applications was organised to Members on 25 September 2023.

GWCk briefed Members on the five research proposal applications received.

*(RnWg left the meeting at 2:55pm)*

GWCk and JCCp recapped that the first proposal was disapproved in the previous Com-BIM & CD Meeting No. 001/23 held in March 2023. The research team enhanced the features of the New Auditing Platform for CDE and resubmitted the application for Member's consideration.

Upon deliberations, having regard to the nature of the research project, Members disapproved the following research proposal application submitted via the KPI Improvement Project Scheme (KPIS):

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

Members were concerned about the proposal, including the methodology to develop the auditing standard of the auditing platform and the ownership of Intellectual Property (IP) right of the auditing platform. Members also commented that the description of the check items in the proposal are rather general, and questioned whether it would be a suitable timing for developing a CDE auditing platform. The CIC Secretariat would pass Members' comment to the applicant and further discuss with the applicant on the way forward.

**CIC Secretariat**

*(FCY attended the meeting at 3:14pm)*
*(RnWg re-attended the meeting at 3:26pm)*

Upon deliberations, Members approved the following two research proposal applications:

(b) Custom API for Efficient Data Transfer between ETABS/SAP2000 and Revit in Hong Kong

It was confirmed with the applicant that the IP right of the application would be owned by the CIC. The maintenance service will be provided by the applicant until end of 2025.

(c) Geotechnical Data 3D Visualisation

JCCp expected that the application should be able to perform optimisation rather than solely for data transfer purpose. The CIC Secretariat would provide the feedback to the applicant for relevant adjustment on the proposal.

**CIC Secretariat**

JCCp and YYY shared their observation after the presentation by the research team. Upon deliberations, Members commented on the research proposal. The applicant was suggested to address to Members' comment and update the research proposal for Members' consideration in the next Com-BIM & CD Meeting:

**CIC Secretariat**

(d) Construction Progress Monitoring Using Laser Scanning and BIM Technology

Members were concerned that the proposal did not include building

services elements and there were similar products in the market. Clarification on the project scope, deliverables and maintenance plan should be made with the applicant.

Upon deliberations, Members agreed with the CIC Secretariat's decision of not recommending the following research proposal application as similar solutions were available in the market:
(e) Development of BIM-API for Enhanced CSD and CBWD Generation Efficiency and Accuracy

*(CTN and ACHAN left the meeting at 3:41pm)*

**3.4    Progress Reports on the Committee on Building Information Modelling and Construction Digitalisation**

Members took note of Paper CIC/BIM/P/026/23.

GWCk briefed Members on the key points of the progress report of 2023 Major KPIs, 2023 actual expenditure vs budget and the proposed 2024 Major KPIs.

GWCk briefed Members on the updated proposed 2024 Major KPIs.

AHKK opined to trim down the number of proposed 2024 Major KPIs so as to make the target to be more focus. RnWg and SnP echoed AHKK's comment and agreed to opt out item 10 of the proposed 2024 Major KPIs. The CIC Secretariat would explore the feasibility of trimming down the number of proposed 2024 Major KPIs.

*[Post meeting note: Upon discussion with the finance department of the CIC after the Com-BIM & CD meeting, the CIC Secretariat would retain item 10 of the 2024 Major KPI of the Com-BIM & CD for target achievement as the 2024 Major KPIs were tied with the budget for 2024. Hence, removing the KPI would remove its budget all together. The 2024 Major KPIs of the Com-BIM & CD were circulated to Members for information via email on 12 October 2023. The 2024 Major KPIs of the Com-BIM & CD were endorsed by the Executive Committee and will be submitted to the Council for approval.]*

AHKK invited Member to suggest ideas and recommendations on the BIM (and Construction Digitalisation (CD)) Year 2024.

JCCp highlighted the large events such as the regional summit organised by buildingSMART that would be organised by external organisations in 2024, which would make 2024 a very fruitful BIM

(and CD) Year.

RnWg shared the experience learnt from the previous buildingSMART international events. She recommended to organise workshops for more deepened discussions and include construction digitalisation and artificial intelligence applications in the BIM (and CD) Year.

AHKK and GWCk highlighted that the CIC would organise the "CIC Global Construction Digitalisation Forum and Exhibition 2024" (GCDFE 2024) in December 2024 in the Hong Kong Convention and Exhibition Centre. The proposal would be submitted to the Council for approval. Members suggested to extend invitations to global countries for participating in the event. The CIC Secretariat would consider to organise events and workshops to deepen the practitioners' knowledge on different construction digitalisation pillars.

JCCp welcomed Members to provide valuable advice on the theme of the BIM (and CD) Year 2024 and encouraged Members to participate in the events.

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

Members took note of Paper CIC/BIM/P/027/23.

GWCk briefed Members on the progress updates of the Construction Digitalisation Department including key events/ projects in coming months. He highlighted that the CIC BIM Space had been transformed to the Digital Twin (DT) Hub and its Grand Opening Ceremony was held on 26 July 2023. He invited Members to book the DT Hub guided tours for their companies/ organisations.

GWCk hightlighted that a visit to Singapore was arranged for COSMOS, the Champion team of the CIC BIM Competition 2023. A webinar for sharing the experience gained would be held in November 2023.

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

Members took note of Paper CIC/BIM/P/028/23.

LLTY briefed Members on the progress of the Task Force on BIM Training (TF-BT) and the development plan of "Common Framework on BIM Education".

JCCp commented that it was required to ensure that the trainers were familiar with the practice of other professional disciplines so as to avoid teaching the practitioners with general and basic knowledge only. He suggested to arrange some sharing sessions and invite professionals who had been teaching in-house training courses to share the teaching experience to other trainers.

RnWg emphasised the importance of BIM education. To cope with the rapid development of BIM, she suggested the BIM core training materials to be reviewed by academia to ensure that the training materials are accurate and up-to-date.

SaF suggested the TF-BT to clarify if the "Common Framework on BIM Education" were proposed to be developed for the teachers / trainers of Higher Education Institutions (HEIs) or the practitioners of the whole industry, since the focus / topics of the teaching / reference materials would be different. JCCp agreed with SaF and suggested the TF-BT to follow up accordingly.

**TF-BT**

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

Members took note of Paper CIC/BIM/P/029/23.

RnWg briefed Members on the progress of the Task Force on BIM Personnel Development (TF-BPD).

SaF requested for the latest application and approval figures of CIC-Certified BIM Coordinator (Associate) (CCBC(A)) in September. DSCb reported that there were 107 CCBC(A) applications received and 44 were approved as at 25 September 2023, and there was an increase in the number of CCBC(A) applications received in September 2023.   The increase was likely due to the update of Technical Circular by the Development Bureau (DEVB) requiring the engagement of CCBC or CCBC(A) as BIM coordinators in consultancy agreements or construction works with tenders to be invited on or after 1 January 2024.   The CIC Secretariat will extend the application fee waiver to end December 2023 to further boost the number of CCBC(A)'s applications.

*[Post meeting note: As at 10 October 2023, there are 178 CCBC(A) applications received and 63 have been approved.]*

### 3.8 Progress Report on the BIM Certification and Accreditation Schemes

Members took note of Paper CIC/BIM/P/030/23.

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

| | |
|---|---|
| JCCp recommended the BIMCAB Secretariat to liaise with HKIE to introduce BIMCAS and encourage the course graduates to submit their applications to become CCBMs/ CCBCs. | **BIMCAB Secretariat** |
| RnWg commented to consider providing the online courses from in-house CIC-Accredited training courses in order to increase the number of applicants. JCCp agreed to consider offering part of the courses online to practitioners. The CIC Secretariat would pass the suggestion to the BIMCAB Secretariat for consideration. | **CIC Secretariat** |
| WKCn explained his difficulty in looking for the CIC-Accredited BIM training courses listed as a table in the CIC BIM Portal. GWCk explained the website limitation on the search function and suggested the BIMCAB Secretariat to categorise the training courses and list them out in separate tables. | **BIMCAB Secretariat** |
| RnWg opined that the CIC could be the pioneer to provide BIM trainings to industry practitioners from Greater Bay Area (GBA) and encourage them to apply for CCBM/ CCBC, so as to boost the BIM development in the industry. | |
| JCCp agreed with RnWg and suggested the CIC Secretariat to explore the feasibility to attract and train talents from the GBA. | **CIC Secretariat** |

*(KWKw and BSPT left the meeting at 4:54pm)*

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

Members took note of Paper CIC/BIM/P/031/23.

AHKK briefed Members on the progress of the TF-DBDS and highlighted the research proposal "openBIM® Quality Platform - Verification, Assessment & Tracking" was targeted to be kicked off by October 2023.

**3.10   Progress of the Task Force on BIM Standards**

Members took note of Paper CIC/BIM/P/032/23.

WKCn briefed Members on the progress of the Task Force on BIM Standards (TF-BS).

JCCp suggested the TF-BS to follow the timeline for BIM Standards implementation and recommended the TF-BS to collect the cases on BIM adoption for showcase in the coming BIM (and CD) Year 2024.

**TF-BS**

**3.11   Progress of the Task Force on BIM Submissions to the Buildings Department**

Members took note of Paper CIC/BIM/P/033/23.

YYY briefed Members on the progress of the TF-BSBD.

YYY highlighted that the TF-BSBD had been conducting a survey to gather experience of BIM submission from the industry. The TF-BSBD targeted to increase the number of BIM submission to the BD by the stakeholders. The survey is targeted to be completed in October 2023. A seminar will be arranged by the end of 2023 to share the experience of precedent cases to the industry with reference to the "Guidelines for using Building Information Modelling in Statutory Plan Submissions (other than General Building Plan) 2023" published by the BD.

**TF-BSBD**

KCyc recapped her comment mentioned in agenda item 3.2 that she supported the arrangement and recommended the CIC to invite the consultants involved to share their experience and hints to the industry practitioners for assisting them to get well-prepared on the BIM submissions.

*(SnP left the meeting at 5:02pm)*

**3.12   Any Other Business**

(a)  The buildingSMART International Standards Summit - Lillestrøm 2023
     JCCp, KWg, GWCK and InSC represented the CIC to join the buildingSMART International Standards Summit in Lillestrøm, Norway from 18 to 21 September 2023. JCCp shared their event experience and technical visits in Norway. He supplemented that a webinar would be arranged to share the experience gained from the

Summit. The CIC Secretariat might invite the Hong Kong Alliance of Built Assest & Environment Information Management Assocations (HKABAEIMA) to share the latest development on openBIM.

**CIC Secretariat**

(b) <u>2024 Budget Preparation on New IT Initiatives</u>
The feedback on the slow performance of the BIM object library were received from the industry in early 2023. As the CIC is considered as the centralised BIM object library in Hong Kong, the CIC Secretariat would arrange to revamp the BIM object library and enhance its performance.

(c) <u>To engage suppliers/ manufacturers to offer their equipment family members in LOD400 for the industry</u>
ACHAN suggested the CIC Secretariat to liaise with the Hong Kong Federation of Electrical and Mechanical Contractors Limited (HKFEMC) and organise a sharing session in 2023. The sharing session aims to introduce BIM objects production guidelines to suppliers/ manufacturers and encourage them to offer their equipment family members in LOD400 for the industry in 2024.

**CIC Secretariat**

### 3.13 Date of Next Meeting

The next meeting was scheduled for 5 December 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 5:26pm.

**CIC Secretariat**
**October 2023**