

Construction Industry Council

Committee on Building Information Modelling

Meeting No. 001/21 of the Committee on Building Information Modelling (Com-BIM) was held on Tuesday, 30 March 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 and through web meeting.

Present	:	Ada FUNG Yin-suen	(AF)	Chairperson
		Antonio CHAN Chi-ming*	(ACHAN)	
		Neo CHAN Kang-yuen*	(NCKy)	
		Thomas CHAN Tak-yeung*	(CTY)	
		Jack CHENG Chin-pang*	(JCCp)	
		Donald CHOI Wun-hing*	(DC)	
		Clement CHUNG*	(CtCg)	
		CHUNG Kwok-fai*	(CKFi)	
		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)	
In Attendance	:	Rocky POON Lock-kee*	(LKP)	Co-chairperson of Task Force on BIM Specifications and Agreement
		Marcin KLOCEK	(mK)	Chairperson of Task Group 1 on BIM Specifications
		SO Ching*	(CSO)	Co-chairperson of Task Group 2 on BIM Special Conditions of Contract & Services Agreement
		Albert CHENG*	(CTN)	Executive Director
		Richard PANG	(RPg)	Director – Industry Development
		Alex HO	(AHKK)	Senior Manager – Building Information Modelling
		Sunny CHOI	(SLC)	Manager – Building Information Modelling
		Shirley LAM	(SHLm)	Assistant Manager – Building Information Modelling
		Ron NG	(RNCw)	Manager – Building Information Modelling

George WONG	(GWck)	Manager – Building Information Modelling
Annie LUI	(ALui)	Officer – Building Information Modelling
Terence WONG*	(TeWg)	Lecturer – School of Professional Development in Construction, Hong Kong Institute of Construction
Elvis HUI	(EsH)	Representative of Eric POON
Apologies	:	Eric POON Shun-wing (EPSW)
		Tommy TAM Wing-cheung (WCT)

*Remarks: *attend the meeting through Microsoft Teams*

MINUTES

Action

Before the meeting, AF welcomed ACHAN, a new member of the Com-BIM. ACHAN is currently the Deputy Managing Director of REC Engineering Group. He is a Vice President of the Hong Kong Federation of Electrical and Mechanical Contractors, Council Member of the Hong Kong E&M Contractors' Association and he is a Fellow Member of the Hong Kong Institution of Engineers in the Electrical Division, Building Services Division, Fire Division and Gas & Energy Division, etc. When he was President of the Hong Kong Air Conditioning and Refrigeration Association (ACRA) in 2019, he established a BIM Task Force under ACRA aiming to promote wide adoption of BIM in the air conditioning and refrigeration industry. With his BIM experience, his appointment as a Com-BIM Member could help drive the BIM adoption in the subcontractors sector in particular in the field of mechanical and electrical engineers.

AF reminded Members to declare conflict of interest if any. No conflict of interest was registered.

1.1 Confirmation of the Minutes of Meeting No. 005/20 of the Com-BIM

Members took note of the Paper CIC/BIM/M/005/20 and confirmed the Minutes of meeting No. 005/20 of the Com-BIM held on Tuesday, 15 December 2020.

1.2 Matters Arising from the Previous Meeting

Members received the progress report on matters arising from the Meeting No. 005/20 of the Com-BIM by circulation on 23 March 2021. No comments were received. The progress report is appended at the Annex A.

1.3 ★Progress of the Task Force on BIM Standards

This starred paper presented for Members' information the progress of the Task Force on BIM Standards (TF-BS).

AF reminded that the CIC should update the CIC Standards published previously to align them with the CIC BIM Standards - General (Version 2 - December 2020), with reference to ISO 19650. JCCp supplemented that there would be minor revision on the CIC BIM Standards for Mechanical, Electrical and Plumbing (MEP) and CIC BIM Standards for Underground Utilities, which were published in 2019, to align them with ISO 19650 requirements.

TF-BS

Use of terminologies “standards”, “guide”, and “case sharing” was discussed, insofar as they would be adequate to serve the intended purpose.

As regards the issue concerning consultation with Fire Services Department for development & formulation of BIM Guide Using BIM in Generation of MEP Digital Drawings for Statutory Submissions, alternative approaches should be explored such as consulting MEP consultants and contractors involved in the process.

TF-BS

Members received Paper *CIC/BIM/P/001/21* without further comments.

*(MWWL attended the meeting through Microsoft Teams at 2:55pm;
CtCg attended the meeting through Microsoft Teams at 3:00pm;
FLCs attended the meeting through Microsoft Teams at 3:05pm.)*

1.4 Progress of the Task Force on BIM Training

This paper presented for Members' information the progress of the Task Force on BIM Training (TF-BT).

CTN updated that the renovation work of Hong Kong Institute of Construction (HKIC) had been completed. Full capacity of BIM training

had been resumed but HKIC alone would not be able to provide sufficient BIM training to meet the demand of the industry. Training courses provided by other training service providers and professional institutions would be of great importance.

DC suggested the CIC to engage other professional institutions to provide BIM training to the industry. The Hong Kong Institute of Architects (HKIA) had established the BIM Accreditation Programme to build up capacity and capability of HKIA members for adopting BIM. More communication between the CIC and HKIA would help to enrich the BIM training programmes. CSO suggested that disciplines should provide training to their own professionals as general training would not be good enough for all practitioners.

AHKK informed Members that online video training (with quiz) on the new CIC BIM Standards General (in line with ISO 19650) would be provided to the industry. Also, the CIC would request the CIC-Certified BIM Managers (CCBMs) and CIC-Certified BIM Coordinators to take the course, and require the accredited course providers to incorporate the new CIC BIM Standards into their training courses. AF suggested that this special online training programme should be formalised with issuing of certificates by CIC.

**CIC
Secretariat**

AF highlighted that CIC would encourage software vendors to prepare a series of video clips for online training, so that it would relieve their burden of training for trainees' and trainers' benefit. Referring to Annexes A and B of Paper CIC/BIM/P/002/21 showing Course Outlines, AF suggested that it would be useful for some online training materials to be developed by CIC and made available for the industry's consumption with a huge population at the contractor and subcontractor levels.

**CIC
Secretariat**

Members received Paper CIC/BIM/P/002/21 without further comments.

(CKFi attended the meeting through Microsoft Teams at 3:55pm.)

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

This starred paper presented for Members' information the progress of Task Force on BIM Specifications and Agreement (TF-BSA), including the progress of the Task Group 1 on BIM Specifications (TG1) and Task Group 2 on BIM Special Conditions of Contract & Services Agreement (TG2).

AF reported that the CIC BIM Exchange Information Requirements (EIR) Template (BIM Specifications) prepared by the TG1 was published in

December 2020, and a webinar was conducted to explain the EIR Template in details on 24 February 2021.

AF also reported that the consultant LESK Solutions Co. Ltd (LESK) submitted the third draft Special Conditions of Contract (SCC) for BIM and BIM Services Agreement. A review meeting among the Chairpersons of the Task Force, TG1, LESK and the CIC was held on 17 March 2021. After the meeting, it was decided that the deliverables of the SCC for BIM and BIM Services Agreement would be deferred by a quarter, so as to align the SCC for BIM and BIM Services Agreement with the CIC BIM Standards - General (Version 2 - December 2020).

CTY raised out that there were some controversial issues related to the draft SCC for BIM and BIM Services Agreement, including Pay for BIM, BIM manager agreement, and BIM audit. AF suggested LESK, the consultant, to list out the controversial issues related to the draft SCC for BIM and BIM Services Agreement for discussion, and give a presentation to the Task Force and highlight any issues that would require advice from the Task Force.

**CIC
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Such being the case, the public consultation webinar on the SCC for BIM and BIM Services Agreement would be postponed accordingly.

Members received Paper *CIC/BIM/P/003/21* without further comments.

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

AHKK gave a PowerPoint presentation on preliminary ideas on the work to increase BIM submissions to the Buildings Department (BD) and Lands Department (LandsD), and the related information obtained from the Singapore Building and Construction Authority (BCA).

KWKw suggested the CIC Secretariat to discuss with the BD on possible incentives to attract the industry to make BIM submissions to the BD.

**CIC
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Members received Paper CIC/BIM/P/004/21 without further comments.

1.7 Progress Reports

This paper presented for Members' information the progress reports on the BIM Certification and Accreditation Schemes, progress updates of the BIM Department's Business Plan 2021 (including key events/ projects in

coming months), and ongoing consultancies and research projects under the Com-BIM. The following supplementary information was presented to Members:

Com-BIM Retreat

CTN informed Members that the CIC Secretariat would organise a Retreat for the Com-BIM Members to carry out brainstorming for the 3-year Strategic Plan on BIM. He encouraged all Members to join.

Members received Paper CIC/BIM/P/005/21 without further comments.

[Post-meeting note: The Retreat had been held in the morning of 17 April 2021.]

1.8 Any Other Business

(a) Green Finance

FI suggested the CIC to explore the application of BIM in relation to the implementation of the Carbon Assessment Tool (CAT). He suggested to start a small pilot project using BIM and CAT to assess the carbon emission level. AF commented that demonstration of green construction practice with key performance indicators should help businesses to seek green finance, and these initiatives should dovetail with Government's policy of decarbonisation, achieving net zero by 2050.

**CIC
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(b) Survey on Common Data Environment (CDE)

SLC gave a sharing on the survey results on CDE in Hong Kong.

AF suggested to provide more information and guidance on CDE, for example, the location of the cloud platform, and desirable functionalities offered by CDE.

**CIC
Secretariat**

(c) Change in Membership of the TF-BSA

AHKK reported that the TF-BSA would end in April 2021. As the project would likely be extended for a few months beyond April, it was proposed to extend the Terms of Office of the Task Force. The number of members was also proposed to be reduced to a maximum of 12 to align with the modus operandi of the Task Forces of the CIC.

AF suggested to extend the Term of Office of the Task Force to 31 January 2022 to align with the Com-BIM's Term of Office, and to update the Committee on Construction Business Development (Com-CBD) on the new membership as the Task Force is a joint Task Force under the Com-BIM and the Com-CBD. In addition, AF invited the

CIC

Development Bureau to send a representative to sit in the Task Force meetings. **Secretariat**

Members approved in principle the proposed Membership and Term of Office of the TF-BSA. The approved Membership and Term of Office is appended at the Annex B.

[Post-meeting note: CTY nominated Mr. Kennis WAN to sit in the TF-BSA meetings.]

(d) “BIM-based Rebar Design Optimisation and Prefabrication Automation” Plug-in Software

JCCp updated Members that the CIC Secretariat had been working with the MTR to identify pilot MTR projects for the use of the plug-in software developed in the research project supported by the CIC Research and Technology Development Fund. Further details would be discussed in the meeting scheduled on 31 March 2021.

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RPg supplemented that the CIC was conducting the Construction Innovation and Technology Fund (CITF) mid-term review and examining the possibility of enhancing the subsidies for trial adoption of technologies. Members would be informed when more information becomes available.

(e) CCBM

mK and JCCp quoted an example where a BIM practitioner with many years of working experience could not meet the CCBM entry requirements and suggested the CIC to re-consider the qualification requirements of CCBM. The CIC explained that the BIM Certification and Accreditation Board (BIMCAB) had thoroughly considered the CCBM entry requirements and launched three application routes – the normal route, the grandfathering route and the special route.

The example in question was likely to be an applicant of the special route. The special route was specially created for those BIM practitioners who were not a recognized professional, and also either did not have a recognised degree or without any degree qualification as required in the normal and grandfathering routes, but their contributions in BIM were well recognized by the industry. The applicant had to prove he had presented on BIM topics in at least 4 local/overseas conferences/symposia as an invited speaker. Any BIM practitioners who did not meet such requirements cannot be processed under the special route but he still could apply through the other two routes. The existing CCBM certification system should have already covered a wide range of BIM practitioners. The above suggestion received would be drawn to the attention of the BIMCAB.

CIC

1.9 Date of Next Meeting

The next meeting would be scheduled for Tuesday, 29 June 2021 at 2:30 pm at the 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 5:19pm.

**CIC Secretariat
March 2021**

Matters Arising from the Meeting No. 005/20 of the Com-BIM

Matters Arising	Action by	Proposed Action/ Progress
<p>5.3 ★ Formation of Task Force on BIM Submissions to the Buildings Department</p> <p>Thomas CHAN suggested to include a representative from the Development Bureau (DEVB) to the Task Force.</p>	CIC Secretariat	We have invited Thomas CHAN to nominate one representative from DEVB to serve as a member of the Task Force on 18 December. Mr. Kennis WAN was nominated to join the Task Force.
<p>5.4 Progress of the BIM Adoption Survey 2020</p> <p>Ada FUNG suggested the CIC to sign memorandum of understanding with the universities, professional institutions and trade associations such that the CIC can coordinate with them to provide solutions training for their students and members.</p> <p>The CIC was working with the DEVB to estimate the demand and supply of different level of BIM personnel required. The CIC would share the estimates with Members once finalised.</p>	CIC Secretariat CIC Secretariat	We will coordinate and update the Com-BIM accordingly. No change of estimation after discussion. The figures reported in the Paper on Progress of the Task Force on BIM Training (Para. 3.2 of Paper *CIC/BIM/P/026/20*) in the Com-BIM meeting No. 005/20 remain unchanged.
<p>5.5 Progress of the Enhancement of the CIC BIM Standards – General (Version 2 – December 2020)</p> <p>Ada FUNG invited Thomas CHAN to alert Works Departments colleagues and</p>	Thomas CHAN	

Matters Arising	Action by	Proposed Action/ Progress
<p>professionals that CIC would provide training courses to them.</p> <p>Ada FUNG also suggested the CIC to provide simple guidelines for readers to understand the new edition of the CIC BIM Standards – General.</p>	CIC Secretariat	<p>A CIC Webinar on BIM - Introduction of CIC BIM Standards - General (Version 2 - December 2020) was held on 10 February 2021 to the industry, we had invited Task Force on BIM Standards, the Com-BIM and all industry stakeholders to join. Another CIC webinar which will be a one-day comprehensive training for the industry on 12 May 2021, all industry stakeholders will be invited to participate.</p> <p>The simple guidelines were provided through seminar (CIC webinar on BIM - Introduction of CIC BIM Standards - General (Version 2 - December 2020) on 10 February 2021 with PowerPoint explanation to facilitate readers/ practitioners to get started with the new edition of the CIC BIM Standards – General.</p>
<p>Ada FUNG proposed to organise a launching ceremony for a series of new CIC BIM Standards as they incorporate principle and good practice of ISO 19650. It would be a new era and formal recognition is needed.</p>	CIC Secretariat	<p>The Launching Ceremony for the New Edition of CIC BIM Standards and Other BIM Initiatives was held on 27 January 2021 to introduce the new edition of CIC BIM Standards and update the CIC's key initiatives on BIM. The event attracted 1,147 participants.</p>

Matters Arising	Action by	Proposed Action/ Progress
<p>5.6 ★Progress of the Task Force on BIM Standards</p> <p>Ada FUNG reminded that the CIC has to refine the CIC Standards released previously having regard to the need to align it with the CIC BIM Standards - General (Version 2 - December 2020) according to the ISO 19650.</p>	<p>Task Force on BIM Standards</p>	<p>We will review and update (1) “CIC BIM Standards for Mechanical, Electrical and Plumbing”, (2) “CIC BIM Standards for Underground Utilities” and (3) “CIC Production of BIM Object Guide - General Requirements” in 2021.</p>
<p>5.7 ★Progress of the Task Force on BIM Training</p> <p>Clement CHUNG reported that the Task Force will set up a Task Group on BIM Training for Higher Education (in Hong Kong) under the lead of Prof. CHUNG Kwok-fai, aiming to coordinate BIM development in institutions, promote sharing of teaching materials, enhance BIM teaching and learning among lecturers and to develop effective BIM learning outcomes, and promote the CIC BIM competitions to students.</p>	<p>Task Force on BIM Training</p>	<p>Progress of the Task Group would be reported in the paper on Progress of the Task Force on BIM Training (CIC/BIM/P/002/21).</p>

Matters Arising	Action by	Proposed Action/ Progress
<p>5.9 ★Progress Reports</p> <p>(a) <u>Autodesk discount in subscription fees</u> The CIC would send the details of Autodesk’s responses on the questions raised by Members and invite Members to attend online sessions on Revit’s roadmap.</p> <p>Autodesk would acknowledge effort from the CIC and the industry in the promotion of discount of their softwares.</p> <p>(b) <u>Consultancy Services on the 3D and BIM Data Use Case Requirements of the Construction Industry for the Development of Digital Hong Kong</u> Alex HO supplemented that the consultant has provided a quotation for studying five more use cases identified in the study. Project Working Group (PWG) meeting and Project Steering Group (PSG) meeting would examine the details and discuss further.</p>	<p>CIC Secretariat</p> <p>CIC Secretariat</p> <p>CIC Secretariat</p>	<p>Members were invited to attend the online sessions on Revit’s roadmap on 13 January 2021 and 23 March 2021.</p> <p>In response to the feedback from the CIC and the industry, Autodesk offered to support the industry.</p> <p>A meeting with PWG and PSG was held on 22 December 2020 for project closure of original scope and discussed the five additional use cases identified in the study. After discussions, a CIC paper with Variation Order proposal of one additional consolidated use case namely “Preliminary design for building (including A&A works) and civil engineering projects” was agreed by the PWG and approved by the PSG and the CIC Project Committee in February 2021. The CIC Secretariat would place the order and carry out the study of the additional use case accordingly.</p>

Matters Arising	Action by	Proposed Action/ Progress
<p>5.10 Sharing on the Deliverables of the TechConnect Fund Project</p> <p>Ada FUNG suggested the CIC to organise a webinar and invite the presenters to give a sharing on this project to the industry and BD.</p> <p>Ada FUNG also suggested to include a link in the CIC BIM Portal to access the project deliverables.</p>	<p>CIC Secretariat</p> <p>CIC Secretariat</p>	<p>We were inviting the Independent Checking Unit and their consultant for sharing at the CIC webinar in Q2 2021.</p> <p>The link to access the project deliverables was included in the CIC BIM Portal on 29 December 2020. https://www.bim.cic.hk/en/resources/Publication_detail/81</p>
<p>5.12 Any Other Business</p> <p><u>Hong Kong Construction Association (HKCA)'s comment on BIM Training</u> CIC received the comments on BIM training from Billy WONG, on behalf of the HKCA, one day before the Com-BIM Meeting. The CIC would convey the relevant information to concern Task Forces and parties to follow up.</p>	<p>CIC Secretariat</p>	<p>BIM contractual/cost-related information was conveyed to Construction Business Development Department (CBD) on 16 December 2020. Items related to training, standards and specification were passed to respective Task Forces to follow up.</p> <p>A meeting to discuss the HKCA's comments among the HKCA, Chairpersons and members of Task Force on BIM Training and Task Force on BIM Standards was held on 11 March 2021. The HKCA's comments were addressed in general. The CIC will further discuss with the HKCA and provide a response.</p>

Construction Industry Council**Committee on Building Information Modelling****Task Force on BIM Specifications and Agreement****Membership List**

(Term of Office: 23 April 2021 - 31 January 2022)

	Name	Representing Organisation/ Remarks
1.	Ada FUNG Yin-suen (Co-chairperson)	Chairperson of the Committee on BIM
2.	Rocky POON (Co-chairperson)	Chairperson of the Committee on Construction Business Development
3.	Clement CHUNG	The Association of Consulting Engineers of Hong Kong/ Chairperson of the Task Force on BIM Training
4.	David FUNG	The Hong Kong Institute of Architects
5.	Marcin KLOCEK	MTR Corporation Limited / Chairperson of the Task Group 1 on BIM Specifications
6.	Raymond KONG	The Hong Kong Institute of Surveyors
7.	Francis LEUNG	The Hong Kong Institution of Engineers
8.	SO Ching	The Hong Kong Institute of Architects/ Co-Chairperson of the Task Group 2 on BIM Special Conditions of Contract & Services Agreement
9.	Billy WONG	The Hong Kong Construction Association
10.	Eliza WONG	Real Estate Developers Association of Hong Kong
11.	Kelvin WONG	Airport Authority Hong Kong/ Co-Chairperson of the Task Group 2 on BIM Special Conditions of Contract & Services Agreement
12.	Kevin WONG	Hong Kong Institute of Building Information Modelling

In attendance (as-needed basis)

	Name	Representing Organisation/ Remarks
1.	Jack CHENG	Chairperson of the Task Force on BIM Standards
2.	Kennis WAN	Development Bureau