

Construction Industry Council

Committee on Building Information Modelling

Meeting No. 003/18 of the Committee on Building Information Modelling (Com-BIM) was held on Tuesday, 4 December 2018 at 3:15pm at the Conference Room, 11/F Cheng Yu Tung Tower, Centennial Campus, The University of Hong Kong

Present	:	Ada FUNG	(AF)	Chairperson
		CHUNG Kwok-fai	(CKFi)	Council Member
		Ivan FU Chin-sing	(FI)	Council Member
		Robert LAM Ping-hong	(PHL)	Council Member
		Kenneth MO Kon-fei	(KM)	Council Member
		Vitus NG	(VN)	Council Member
		YU Sai-yen	(SYYu)	Council Member
		Ben CHAN Siu-bun	(BCSb)	Lands Department
		David CHAN	(DCCK)	The Association of Architectural Practices
		Edmund CHAN Sai-chun	(ECSc)	Hong Kong Housing Authority
		Neo CHAN Kang-yuen	(NCKy)	Hong Kong Institute of Building Information Modelling
		Steve CHAN Hor-yin	(SCHy)	Electrical and Mechanical Services Department (for WONG Sek-cheung)
		Jack CHENG	(JCCp)	The Hong Kong University of Science and Technology
		Karen CHENG Ka-lai	(KCKl)	Architectural Services Department
		Sunny CHOI Shing-lam	(SLC)	The Hong Kong Institute of Surveyors
		Clement CHUNG	(CtCg)	The Association of Consulting Engineers of Hong Kong
		Calvin FU Po-wa	(CFPw)	The Hong Kong Institution of Engineers
		FUNG Siu-man	(SmF)	The Chinese University of Hong Kong
		HO Ka-chun	(HKc)	Highways Department (for Terrie HUNG)
		KWOK Wing-cheong	(KWc)	Water Supplies Department (for Ben LO Yu-bun)
		Terence LAM Tat-ming	(TmL)	Civil Engineering and Development Department
		Silas LIU Kam-ming	(SLKm)	Planning Department

	Miranda LUI	(MLCy)	Chartered Institution of Civil Engineering Surveyors (Hong Kong Region)
	NG Chun-keung	(NCK)	Hong Kong Institute of Utilities Specialist
	Eric POON Shun-wing	(PSW)	Urban Renewal Authority
	SO Ching	(CSO)	The Hong Kong Institute of Architects
	Billy WONG	(BWCb)	The Hong Kong Construction Association
	Kelvin WONG	(KWKw)	Airport Authority Hong Kong
	WONG Sui-kan	(WSkn)	Drainage Services Department
	Clarice YU Po-mei	(YPM)	Buildings Department
In Attendance	: Simon James GALLAGHER	(SjG)	Chartered Institute of Architectural Technologists Hong Kong
	Marcin KLOCEK	(MK)	MTR Corporation Limited
	Terence KONG Hon-wai	(TKHw)	Independent Checking Unit
	Nelson YAM Hon Fun	(NYHf)	Lands Department
	Richard PANG	(RPg)	Director - Industry Development
	Yen LEE Oi-yen	(OYL)	Assistant Director – Finance and Registration
	Alex HO	(AHKK)	Senior Manager – Building Information Modelling
	James WONG	(JsW)	Senior Manager – Construction Productivity
	Ron NG	(RNCw)	Manager - Building Information Modelling
	George WONG (Secretary)	(GWCK)	Manager - Building Information Modelling
	Shirley LAM	(SLLl)	Assistant Manager - Building Information Modelling
	Evan MAK	(EMYw)	Senior Officer – Building Information Modelling
Apologies	: Andrew CHAN Ching-leung	(ACCl)	Hong Kong General Building Contractors Association
	Benny CHAN Chak-bun	(BCCb)	Hospital Authority
	Daniel CHONG Kwok-ming	(DCg)	The Hong Kong Federation of Electrical and Mechanical Contractors Limited
	Stephen LAI Yuk-fai	(SLI)	Council Member

LI Heng	(HL)	The Hong Kong Polytechnic University
Eric LIU	(ELSI)	Vocational Training Council
Ben LO Yu-bun	(YbL)	Water Supplies Department
Sammy NG	(SNTy)	buildingSMART Hong Kong
Steve ROWLINSON	(SR)	The University of Hong Kong
Andrew SIMPSON	(ASN)	West Kowloon Cultural District Authority
WONG Sek-cheung	(WSCg)	Electrical and Mechanical Services Department
Franki YEUNG	(FY)	Hong Kong Housing Society

MINUTES

Action

- 3.0** AF welcomed the following industry stakeholders who would be invited to attend Com-BIM meetings, on top of the regular members:
- a) SjG from Chartered Institute of Architectural Technologists Hong Kong
 - b) MK from MTR Corporation Limited
 - c) TKHw from Independent Checking Unit

3.1 **Confirmation of the Progress Report of the Com-BIM Meeting No. 002/18 held on 14 August 2018**

Members took note of the Paper CIC/BIM/R/002/18.

Members raised no comment. The progress report of the Com-BIM meeting No. 002/18 held on 14 August 2018 was endorsed.

3.2 **Matters Arising from the Previous Meeting**

AHKK briefed Members on the actions taken for the matters arising from the previous meeting.

CIC/BIM/R/002/18 Item 2.3 - BIM Training Plan for 2019

BIM training courses would be provided by the Hong Kong Institute of Construction (HKIC) from 1 January 2019. The Task Force on BIM Training and CIC BIM Department would convey the training needs to HKIC for their planning.

With the opening of the new BIM Innovation and Development Centre in early 2019, more training places could be offered by the Hong Kong Institute of Construction (HKIC). The consolidated training plan, including more MEP courses and the new BIM management course (to be renamed as BIM manager course), would be prepared and reported to the Committee in due course.

CIC/BIM/R/002/18 Item 2.5 (6) - BIM Adoption Survey

A simple survey was conducted from 24 August to 12 September 2018 for contractors, sub-contractors and consultants and a summary of the results was presented by AF at the Inaugural Asia Pacific Regional BIM Forum on 26 September 2018.

A comprehensive survey would be conducted in the first quarter of 2019.

CIC/BIM/R/002/18 Item 2.6 - BIM Education among Professional Bodies

Representatives from HKIA and HKIS reported that their institutions were considering to provide BIM training courses in collaboration with CIC. Representative from HKIE reported that there were already engineering discipline-specific BIM seminar/courses/forum (CPD) as organised by relevant HKIE Divisions during the past and are ongoing conducting. HKIE would also explore the collaboration opportunity and arrangement with CIC for discipline-specific BIM courses that could be pre-approved by the Construction and Innovation Technology Fund (CITF).

**HKIA,
HKIE,
HKIS**

AF suggested CIC and professional bodies to arrange a meeting with universities to work out the core BIM topics and to explore ways to include such topics in their undergraduate curricula.

AHKK reported that CIC had been invited to give a lecture to introduce BIM to Architectural students at the Chinese University of Hong Kong, and he would be happy to give similar lectures to other universities. Feedback from the students would be provided for members' reference when available.

3.3 Proposed Activities for BIM Year 2019

Members took note of the Paper CIC/BIM/P/008/18.

AHKK briefed Members on the proposed plan for BIM Year 2019. The key activities are listed below:

- BIM Year 2019 & BIM Certification and Accreditation Schemes Launch Ceremony is planned to be held at the Multi-Purpose Hall of the Zero Carbon Building on 28 January 2019
- Launch of CIC's updated BIM Portal
- BIM Competition
- Interviews with key BIM practitioners
- Opening of new BIM Innovation and Development Centre
- BIM Talks
- BIM Forum 2019

All members were invited to participate in these events.

All to note

3.4 Progress Report on BIM by CIC

AHKK reported on the progress of CIC's recent BIM activities.

1. **Inaugural Asia Pacific Regional BIM Forum**
The forum was held on 26-27 September 2018 with around 350 attendees. Representatives from nine economies shared knowledge and experience, and presented the progress of BIM development in their respective jurisdictions.
2. **BIM Awareness Seminar and Workshops**
A total of 22 BIM Awareness Seminars and Workshops had been organized since January 2018 to promote the awareness and understanding of BIM technologies. There were 823 attendees. The seminars were video recorded and made available at the BIM Portal.
3. **BIM Training**
As at November 2018, 77 classes of BIM training courses had been organized by CIC.
4. **BIM Talks**
The second BIM Talks event was held at the Hong Kong Academy for Performing Arts on 29 August 2018. Six speakers presented their projects and the recorded video clips would be uploaded to CIC's BIM Portal. The next BIM Talks event would be held at the same venue on 6 December 2018.
5. **BIM Certification and Accreditation Schemes (the "Schemes")**
Seven stakeholder engagement sessions were conducted with over 170 participants from September to November 2018. BIM Certification and Accreditation Board (BIMCAB) and Appeal and Disciplinary Board (ADB) had been established to manage the Schemes.
6. **BIM Innovation and Development Centre**
The existing BIM Innovation and Development Centre at Kowloon Bay Campus would be turned into a Training Centre dedicated to the provision of BIM-related training and managed by HKIC while the BIM Innovation and Development Centre would be relocated and expanded to a new location at Megabox in Kowloon Bay, serving as a one-stop shop for provision of all BIM-related services.
7. **Production of BIM Object Guide**
The BIM object guide was published in June 2018. Comments from Works Departments and categorization according to BIM standards

would be updated accordingly. The updated version will be commented by the Task Force on BIM Standards (Phase 2) and circulated to Com-BIM for approval.

8. BIM Portal

Various seminars, conferences, standards and publications were updated in the BIM portal.

3.5 Progress of the Task Force on BIM Training

Members took note of the Paper CIC/BIM/P/009/18.

CtCg briefed Members on the progress of the work under the Task Force on BIM Training:

- Two meetings were held since the last Com-BIM meeting.
- CIC had met with three HKIS representatives on 23 October 2018 to discuss in detail the collaboration between HKIS and CIC for discipline-specific BIM training.
- Some Works Department had expressed interest to provide some BIM models to CIC for teaching purpose.
- CIC had offered free BIM training seats for academic staff at universities that had signed MoU with CIC.
- Reviewed the proposed syllabus for the CIC Accredited BIM Manager Course under the Schemes.

3.6 Progress of the Task Force on BIM Standards (Phase 2)

Members took note of the Paper CIC/BIM/P/010/18.

JCCp briefed Members on the progress of the work under the Task Force on BIM Standards (Phase 2):

- Two meetings were held since the last Com-BIM meeting.
- The consultancy service for preparing the BIM Standards for Statutory Plan Submission had been tendered out.
- The draft BIM Standards for MEP Discipline (LOD 300-500) was planned to be completed in January 2019.
- The draft BIM Standards for Underground Utilities (UU) was planned to be completed in January 2019.

[Post-meeting note: A Paper CIC/BIM/P/012/18 on Tender Recommendation for Consultancy Services for BIM Standards of Statutory Plan Submission was sent on 24 December 2018 for

Committee Member's approval and the paper was approved on 2 January 2019.]

CFPw suggested that the draft BIM Standards (Phase 2) could be shared with key stakeholders to tap initial feedback before the consultation forum. JCCp replied that key stakeholders would be consulted on the final draft of the two standards. CtCg and NCK supplemented that the Task Force had arranged to meet with ACEHK to collect their BIM Standards for MEP and UU.

AF suggested, in addition to focus group meetings, the Task Force and CIC could invite all the related stakeholders to give comments in a consultation forum before the final draft would be prepared.

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YPM updated Members on the progress of the BIM Standards and templates for GBP submission. The standards and templates would be ready by mid-2019.

AF welcomed companies to share their project templates (e.g. contract requirement, submission, etc.) with the industry. CIC would publish them on the BIM Portal.

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3.7 Update on buildingSMART International

AF shared her observations after attending the International Standards Summit held in Tokyo in October. There were many technical sessions which were organized into “rooms” for speakers to share their practical BIM experience and challenges in specific areas such as buildings, regulators, construction, infrastructure, products, airport, railways, etc.

AF reported the next buildingSMART International Standards Summits would be held in Dusseldorf, Germany in March 2019. As it was worth to gain in-depth understanding of the latest development in standards of the specific topic in each room and able to network with corresponding experts of that field, she would join the Summits together with CIC staffs and strongly encouraged Members to join. Details would be sent to Members for consideration.

All to note

3.8 3D Planning and Design System

SLKm gave a presentation on the one-stop integrated web-based 3D Planning and Design System of Planning Department. About 10GB of data would be opened and shared in the public domain by end of 2018.

3.9 Construction Innovation and Technology Fund

OYL introduced to Members the categories, eligibility criteria and application methods for the newly established Construction Innovation and Technology Fund.

3.10 CIC Research and Technology Development Fund

JsW introduced to Members the new funding model, operational framework and assessment criteria of the CIC Research and Technology Development Fund.

3.11 Tentative Meeting Schedule for 2019

AF reminded Members to take note of the meeting schedule in 2019 and mark their diary. **All to note**

3.12 Any Other Business

(1) 3D Spatial Data for a Digital Hong Kong

AF updated Members on a meeting held among BD, LandsD, PlanD and CIC to discuss ways to accelerate the development of 3D spatial data including BIM data for a digital Hong Kong. She requested CIC to work with the concerned departments to procure a consultancy study on the following:

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- Study the current situation in collecting, checking, storing, sharing and use of 3D spatial data in Hong Kong.
- Propose and develop the operational policy, procedure and standards for collecting, checking, storing, sharing and use of spatial data in Hong Kong.

(2) DevB's BIM Roadmap

VN updated Members on the BIM roadmap of DevB as summarised below:

- DevB planned to commence pilot trial to use BIM for e-tendering in about three years' time;
- More BIM uses would be made mandatory next year;
- Five projects had been selected to use BIM to generate bar bending schedules and transfer the data for off-site prefabrication of steel reinforcing bars.

- Some of the BIM Objects developed by the Departments had been shared with CIC and more objects would be shared.
- Asset management templates were under development and would be ready for release soon.

[Post-meeting note: The CIC Council has created an Achievement Statement for each committee under its governance. The Achievement Statement for the Committee on BIM is “一年立訂模標準 兩年擴大應用率 - 一年內制定建築訊息模型標準 每年增加15%應用率”. CIC BIM Department will endeavour to achieve it through the 2019 Business Plan approved by the Committee on BIM.]

3.13 Date of Next Meeting

The 1st meeting in 2019 would be held on Tuesday, 12 March 2019 at 2:30 pm. **All to note**

There being no further business, the meeting was adjourned at 6:05 pm.

CIC Secretariat
December 2018