

香港特別行政區政府
The Government of the Hong Kong Special Administrative Region

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Ref : DEVB(W) 430/80/01
Group : 2, 5, 6

20 December 2021

Development Bureau
Technical Circular (Works) No. 8/2021

**Building Information Modelling Harmonisation Guidelines
for Capital Works Projects in Hong Kong**

Scope

This Circular sets out the policy and requirements on the adoption of the Development Bureau Building Information Modelling (BIM) Harmonisation Guidelines in capital works projects¹.

Effective Date

2. This Circular takes effect on **1 January 2022**.

¹ It refers to the capital works projects that required to adopt BIM under the DEVB Technical Circular (Works) No. 2/2021 “Adoption of Building Information Modelling in Capital Works Projects in Hong Kong” or its latest version.

Effect on Existing Circulars and Circular Memoranda

3. This Circular should be read in conjunction with DEVB Technical Circular (Works) No. 2/2021 Adoption of Building Information Modelling in Capital Works Projects in Hong Kong or its latest version.

Background

4. The Civil Engineering and Development Department (CEDD) commissioned a consultancy to carry out a BIM horizontal harmonisation study for a New Development Area (the Study) and produced a set of BIM Harmonisation Guidelines. The said guidelines encompass standards governing the technical and information requirements of BIM models produced under the Study to align BIM standards across Works Departments (WDs) and support BIM/GIS integration to facilitate the continuous study and production of the 3D digital maps for Hong Kong of the Lands Department (LandsD). Under the Study, a BIM Data Repository (BIM DR) will be established to store the BIM models so produced for effective and efficient information exchange among WDs and LandsD.

5. Subsequent to the endorsement of the above-mentioned BIM Harmonisation Guidelines of the Study, DEVB took the opportunity to expand and generalise them and formulated this DEVB BIM Harmonisation Guidelines for WDs (the Guidelines) for information exchange amongst WDs and LandsD in capital works projects.

6. The objectives of the Guidelines are:-
- a) to enable sharing, dissemination and maintenance of BIM models and BIM attributes across the WDs and LandsD;
 - b) to support sharing of BIM objects with the Construction Industry Council (CIC) for reference by the industry;

- c) to form the standards to support the BIM Data Repository of LandsD, the 3D digital map initiatives, and the forthcoming 3D Land Information System²; and
- d) to provide a set of aligned BIM standards across WDs and LandsD with emphasis on consistent modelling approaches.

7. The Guidelines shall be adopted for upcoming BIM adopting capital works projects to ensure consistency when authoring, reviewing and managing BIM files, BIM models and BIM objects.

Policy

8. All technical & fee proposals of consultancy agreements or construction works tenders for capital works projects with BIM adoption to be invited on or after the effective date of the Circular shall adopt the Guidelines.

9. The Guidelines are also applicable to entrusted projects within the Government departments. For projects entrusted to organisations outside the Government (Airport Authority, MTR Corporation Limited, private developers, etc.), sub-vented projects and private projects to be handed over to the Government, the Guidelines should also be followed as far as practicable.

Upkeep mechanism of the Guidelines

10. The Guidelines are living document. The DEVB has set up a Working Group for BIM (“DEVB BIM Working Group”), with Terms of Reference as detailed in **Annex**, to assist the DEVB Steering Committee for BIM in monitoring the implementation of the BIM and related policy and initiatives. The same Working Group will be responsible for the on-going update and upkeep of the Guidelines. Any proposed amendments to the Guidelines shall be

² The Land Information System maintained by LandsD will integrate 3D digital maps with the existing digital mapping and land boundary information of Hong Kong, providing a common geospatial information reference framework for the Government Departments.

addressed to the Secretary of the DEVB BIM Working Group, who will consolidate the proposed amendments for peer review and recommend to the Chairman of the said Working Group for endorsement.

11. The endorsed Guidelines shall be made available in the DEVB website³.

Enquiries

12. Enquiries on this Circular should be addressed to Chief Assistant Secretary (Works) 4.

(Ricky C K LAU)
Permanent Secretary for Development (Works)

³ The Guidelines are accessible at the DEVB website >> Publications & Press Releases >> Publications

**Terms of Reference and Membership of
the Working Group for Building Information Modelling**

Terms of Reference

- (a) To assist the DEVB Steering Committee for BIM in formulating and executing strategies to drive the use of BIM technology in major capital works projects; and
- (b) To assist the DEVB Steering Committee for BIM in monitoring the implementation of BIM strategies, initiatives, and technology in capital works projects.

Composition of the Working Group

Chairman: CAS(W)4, DEVB(WB)

Membership:

Head of the BIM Support Team, ArchSD
Head of the BIM Support Team, CEDD
Head of the BIM Support Team, HyD
Head of the BIM Support Team, DSD
Head of the BIM Support Team, WSD
Head of the BIM Support Team, EMSD
Head of BIM Section, LandsD

Others:

- CIC will be invited if needed.
- BD, PlanD, and other B/Ds will be invited to participate and deliberate on specific issues as appropriate.

Secretary:

AS(WP3)5 or as designated by the Chairman