

A Review on Hong Kong BIM Standards

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Background of Research

Building Information Modeling (BIM) is the process of generating a 3D digital representation of building data throughout its whole lifecycle. It brings a revolution to the building industry.

Being a new technology trend, BIM faces a big problem – every user applies the technology based on their understanding, which may reduce the communication efficiency with users coming from another discipline. Therefore, an overall review of BIM standards and guidelines are necessary.

Research Objectives

- Objective 1: Summarizes the similarities and differences of BIM standards aspects in Hong Kong
- Objective 2: Give a brief understanding of BIM standards currently adopted in Hong Kong

Methodology

Eight current standards of BIM are included in the study.

They will be compared requirements in the aspect of:

- Documentations
- Technical
- Workflow
- Submission formats
- Etc.

A table of requirements and brief summary of the requirements would be included in the report.

Literature Review

1. CIC Building Information Modelling Standards for Preparation of Statutory Plan Submissions (Dec 2019)
2. Development and Construction Division (DCD) of Hong Kong Housing Department (HD) (Version 1, Nov 2019)
3. CIC Building Information Modelling Standards Mechanical, Electrical and Plumbing (August 2019)
CIC Production of Building – General Requirements (August 2019)
4. Practice Note for Authorized Persons, Registered Structural
5. Engineers and Registered Geotechnical Engineers ADV-34 (BD)
6. Constructional Industry council Production of BIM Object Guide General Requirements (Jan 2018)
7. CIC Building Information Modelling Standards Underground Utilities (August 2019)
8. BIM Modelling Manual Second Edition, DSD HKSAR (May 2019)

Conclusion & Findings

-Hong Kong currently has authority standards of BIM in use, issued mainly by the Constructional Industry Council (CIC) and different government departments.

-BIM standards are reviewed from time to time. Such a study should be done time to time

Findings (in table)

Can find what you need to look for in the table.

+ = Requirements - = Not mentioned

	(1) [↺]	(2) [↺]	(3) [↺]	(4) [↺]	(5) [↺]	(6) [↺]	(7) [↺]	(8) [↺]
Naming	+	-	-	+	-	+	-	+
Structure	+	-	-	+	-	+	-	+
Requirement [↺]								
File structure [↺]	-	-	+	+	-	-	-	+
BIM elements	+	-	+	+	-	+	+	-
Requirement [↺]								
Coordinates system	+	-	-	-	-	-	+	+
requirement [↺]								
Modelling of 2D and 3D objects [↺]	+	+	+	+	-	+	-	-
Cross platform [↺]	-	-	+	-	+	+	+	+
Project phases [↺]	-	-	+	+	-	+	-	+
Workflow [↺]	+	+	+	-	-	+	-	-
Inspection [↺]	-	-	-	+	-	+	+	+
Submission format	+	-	-	+	+	+	+	-
Requirement [↺]								