

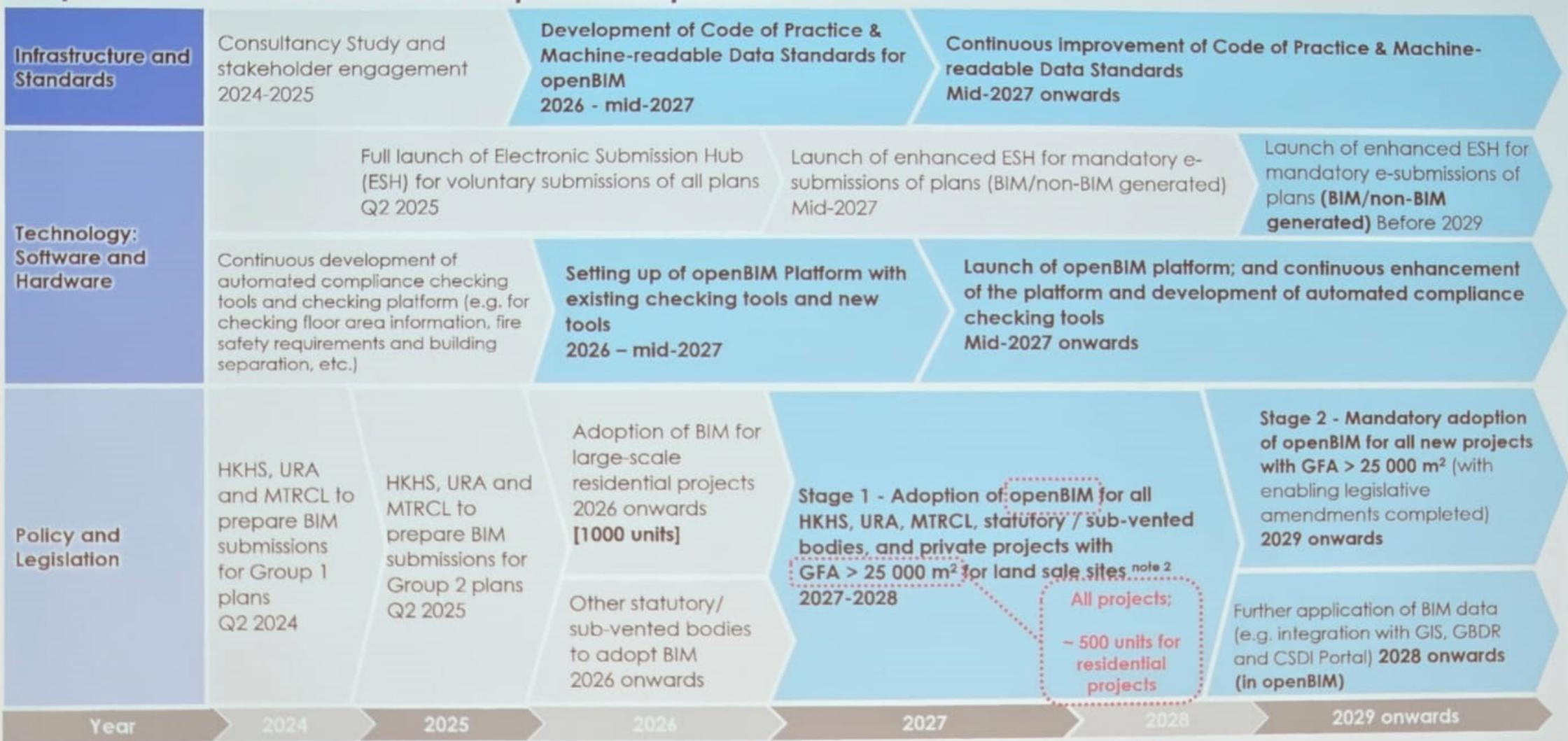
Welcome Speech

Mr. Lawsons Yue Assistant Dir/New Buildings 1

Ms. Bon Ko Chief Structural Engr/New Territories
Buildings Department



Proposed Refined BIM Roadmap as of Sep 2025



Note 1: Reference is made to item ii under paragraph 5.1 of the "Roadmap on Adoption of BIM for Building Plan Preparation and Submission" promulgated by DEVB in December 2023, which requires the adoption of BIM by introducing a new condition in the leases for land sale sites (now suggest to exclude land grant and land exchanges), as well as amending relevant practice notes. The scope has now been expanded to include all projects.

You might ask

點解宜家話要用BIM入則嘅?

What is the background of this initiation "Adopting BIM for Statutory Submission"?

The Government will promulgate this year (2023) a roadmap for **full adoption of BIM** in the preparation and approval of building plans for private development projects.

The Hong Kong Special Administrative Region of the People's Republic of China
The Chief Executive's 2023 Policy Address

Expedite the approval of building plans – ...The Government will promulgate this year a roadmap for **full adoption of BIM** in the preparation and approval of building plans for private development projects.

The Hong Kong Special Administrative Region of the People's Republic of China
The Chief Executive's 2024 Policy Address

Actively promote the application of artificial intelligence in the Government and the public sector to speed up the **digital transformation of public services**

Roadmap on Adoption of Building Information Modelling (BIM) for Building Plan Preparation and Submission

Year	2023	2024	2025	2027	2028	2029 onwards
Efficient process and Standards	Finalise study on standardising BIM (2023)	Commence development of new standards for the revised Building Information Modelling (BIM) Standard				
Technical Support and Workflows	2023 Government BIM Standard for statutory submission of all plans	Use BIM for all major public works and statutory submission of all plans	Use BIM for all major public works and statutory submission of all plans	Use BIM for all major public works and statutory submission of all plans	Use BIM for all major public works and statutory submission of all plans	Use BIM for all major public works and statutory submission of all plans
Private sector engagement	2023 BIM Standard for statutory submission of all plans	2024 BIM Standard for statutory submission of all plans	2025 BIM Standard for statutory submission of all plans	2027 BIM Standard for statutory submission of all plans	2028 BIM Standard for statutory submission of all plans	2029 onwards BIM Standard for statutory submission of all plans

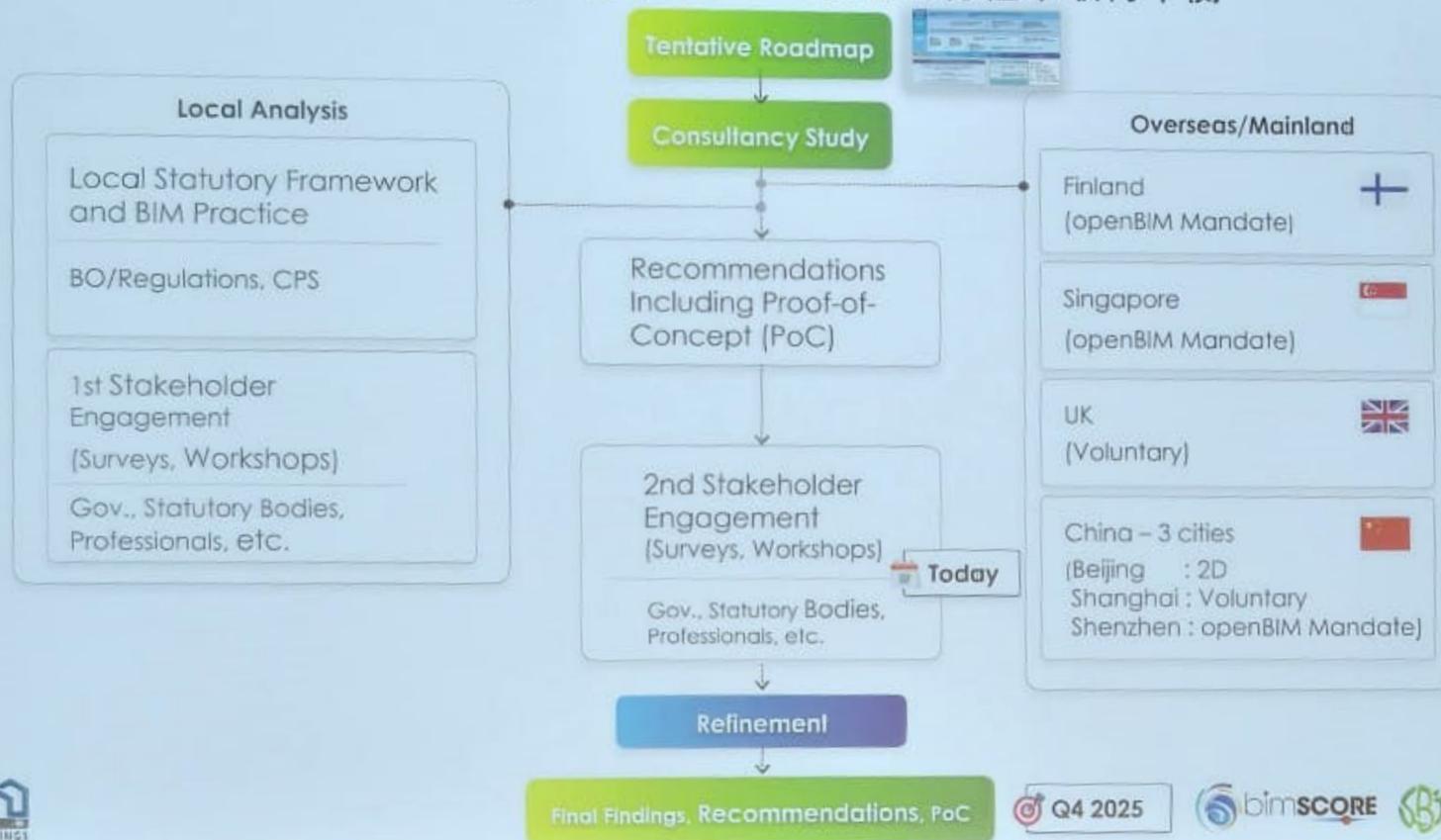
Key Supporting Measures (ongoing):
 - Promoting the Government's BIM Standard for Statutory Submission
 - Encouraging the private sector to adopt BIM for statutory submission of all plans

Targeted Training:
 - Promoting BIM training for the private sector
 - Encouraging the private sector to adopt BIM for statutory submission of all plans

Technical Support and Workflows:
 - Develop Government's BIM Standard for Statutory Submission
 - Use BIM for all major public works and statutory submission of all plans

Private Sector Engagement:
 - Encourage the private sector to adopt BIM for statutory submission of all plans
 - Promote BIM training for the private sector

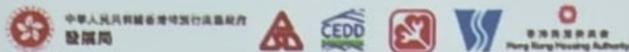
透過理性分析，從價值、進度、和可行性中取得平衡



Local Analysis

Stakeholder Engagements (Surveys, Workshops)
 ~1,000 representatives from 100+ organisations

Government Bureau & Departments



Quasi-government Organizations



Developers



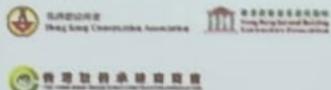
Professional Institutions



BEAM



Registered Contractors



Academies



~100 Participants ~25 organisations



50 Participants ~20 CPS departments



320+ Participants ~100 organisations



~100 Participants ~10 organisations

“ Government should provide openBIM platform, checking tools, and plugins

Need **one standard** that clearly defines **what should be in BIM vs 2D**; **no duplication** of efforts.

Now some of our **laptops** are not good enough to **open BIM files**.

SME consultants needs **funding support to upgrade and uplift** openBIM readiness

Not everyone is ready for BIM and openBIM adoption.

Hope this can **increase certainty of approval** and be **faster**.

透過理性分析，從價值, 進取度和可行性中取得平衡

Stop sharing your screen

Tentative Roadmap

Consultancy Study

Recommendations Including Proof-of-Concept (PoC)

2nd Stakeholder Engagement (Surveys, Workshops)
Gov., Statutory Bodies, Professionals, etc.

Refinement

Final Findings, Recommendations, PoC

Local

Local Statutory Framework and BIM Practice

BO/Regulations, CPS

1st Stakeholder Engagement (Surveys, Workshops)

Gov., Statutory Bodies, Professionals, etc.

Overseas/Mainland

Finland (openBIM Mandate) 

Singapore (openBIM Mandate) 

UK (Voluntary) 

China - 3 cities (Beijing : 2D, Shanghai : Voluntary, Shenzhen : openBIM Mandate) 

Today

Consultancy Study

Findings in 1st Stakeholder Engagement

Government should **provide openBIM platform, checking tools, and plugins**

Need **one standard** that clearly defines **what should be in BIM vs 2D**; **no duplication** of efforts.

SME consultants **needs funding support to upgrade and uplift** openBIM readiness

Hope this can increase **certainty of approval** and be **faster**.

Not everyone is **ready** for BIM and openBIM adoption.

Findings in Overseas/Mainland Study

Finland  Singapore  UK  China – 3 cities 

- openBIM Platform (e.g. IFC-SG)

- Automated Model Checker

- Code of Practice (e.g. CoP of CORENET X)

- Hybrid submissions (3D BIM + 2D drawings)

- Incentive to support SME

- Applicable & Relevant BIM Training

- Reduction in approval time

- Incremental implementation

1. Recommended strategies on adoption BIM for statutory submissions under the BO
2. Proposed refined BIM Roadmap

Recommended Strategies & Actions



Government Strategies	2026	2027	2028	2029	2030
<ul style="list-style-type: none"> Set up cross-departmental Steering Committee: <ul style="list-style-type: none"> (i) Review performance of openBIM adoption periodically; and (ii) Engage CPS to join the openBIM development and work out their BIM work plan and training. 					
<ul style="list-style-type: none"> Incentive and funding support through CITF 					
<ul style="list-style-type: none"> Engage other statutory/ subvented bodies to adopt openBIM 					



Code of Practice & Standards	2026	2027	2028	2029	2030
<ul style="list-style-type: none"> openBIM-based Code of Practice 					
<ul style="list-style-type: none"> Machine-readable Data Standards 					



Technology: Software & Hardware	2026	2027	2028	2029	2030
<ul style="list-style-type: none"> openBIM checking platform and new automated tools 					



Legal, Training & Supporting Measures	2026	2027	2028	2029	2030
<ul style="list-style-type: none"> Establish Legal and Statutory Framework 					
<ul style="list-style-type: none"> Training on openBIM-based submission for industry 					

mid-2027
Version 1

2029
Full Adoption

為BIM而做BIM，定係真係節省到時間？

Are we doing BIM only for the sake of doing it, or it can really help us?

First Submission

52

	First Submission	Amendment submission
GBP Submission processing Time	60 → 52 calendar days (13% reduction)	30 → 24 calendar days (20% reduction)

20% Reduction in GBP Preparation time for APs

Type of plans to adopt BIM for submission in 2029 (Stage 2) – Private Projects

		Group 1 Plans		Group 2 Plans					Exclude in Tentative Roadmap		
		General Building Plans	Superstructure plans*	Foundation	ELS	GI	Drainage plan	Site Formation	Hoarding	Demolition	A&A
HK	First submission	✓	✓	☑			☑	☑			
	Before first consent	✓	✓	☑			☑	☑			
	OP (or BA14) Stage	✓	✓	☑			✓	☑			
Singapore		Adopt BIM (Design Gateway & Construction Gateway)	Adopt BIM (Construction Gateway)	Adopt BIM (Construction Gateway – BCA)		Adopt BIM (Piling Gateway – BCA)	Adopt BIM (Design Gateway & Construction Gateway – PUB)	Adopt BIM (Design Gateway – URA)			Adopt BIM (>5,000 m ²)

☑ Voluntary submissions

✓ Mandatory for projects of 25,000m² through BO

* Concrete reinforcement, curtain Wall, cladding & precast façade are not mandatory to be represented in 3D elements.