

2016 4th 全球政府BIM论坛



中国建筑标准设计研究院
建院六十周年高峰论坛

第四届全球政府BIM论坛 2016 4th GOVERNMENT BIM SYMPOSIUM

主办方 Organizers

中国建筑标准设计研究院
China Institute of Building Standard Design & Research

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China Railway BIM Alliance

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Building and Construction Authority
Singapore Deputy Managing Director



Singapore BIM Journey: From BIM Adoption to Lean and Virtual Construction

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Deputy Managing Director, BCA Academy &
Built Environment Research and Innovation Institute



BIM论坛

Regulatory Approval

July 2013

Architecture Submissions for all new building projects > 20,000 m²

July 2014

Engineering Submissions for all new building projects > 20,000 m²

July 2015

Architecture & Engineering Submissions for all new building projects > 5,000 m²

Oct 2016

Voluntary Submission in Native Format

Oct 2017

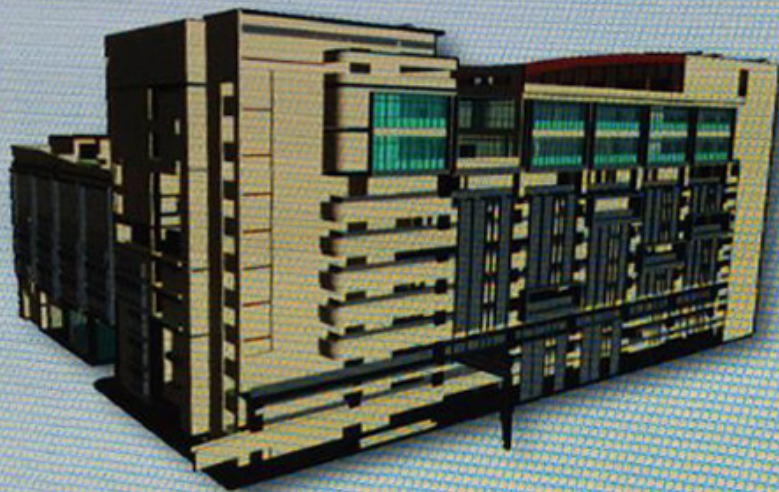
Mandatory Submission in Native Format

格式

有格

Building BIM Capability and Capacity

BCA ACADEMY



NEW!

- ✓ Certification Course on BIM Modelling (Architecture Track)
- ✓ Certification Course on BIM Modelling (MEP Track)
- ✓ Certification Course on BIM Modelling (Structural Track)
- ✓ BIM Planning (Building Developers and Facility Managers)
- ✓ Certification Course on BIM for MEP Coordination
- ✓ BIM Quantity Take-Off
- ✓ BIM Scheduling and Process Management
- ✓ Certification Course on BIM Management
- ✓ Specialist Diploma in Building Information Modelling
- ✓ Specialist Diploma in Design for Manufacturing & Assembly (DfMA)
- ✓ Specialist Diploma in Lean Construction
- ✓ Specialist Diploma in Virtual Design & Construction (VDC)

Key Achievements

102 GPE projects adopted BIM

181 projects met mandatory BIM e-submission req.

\$20 million committed to **707 firms**

with average of **21.5%** efficiency gain

8000 professionals trained

2000 students trained before graduation

政府BIM论坛

2nd BIM Roadmap (2015 – 2020)

The 2nd BIM Roadmap

Developer
s

Consultants

The 2nd BIM Roadmap

Main
contractors

Specialist
contractors

Facility
managers

Drive BIM collaboration throughout Value Chain

BIM for Design for Manufacturing & Assembly (DfMA)

New training programmes at all levels

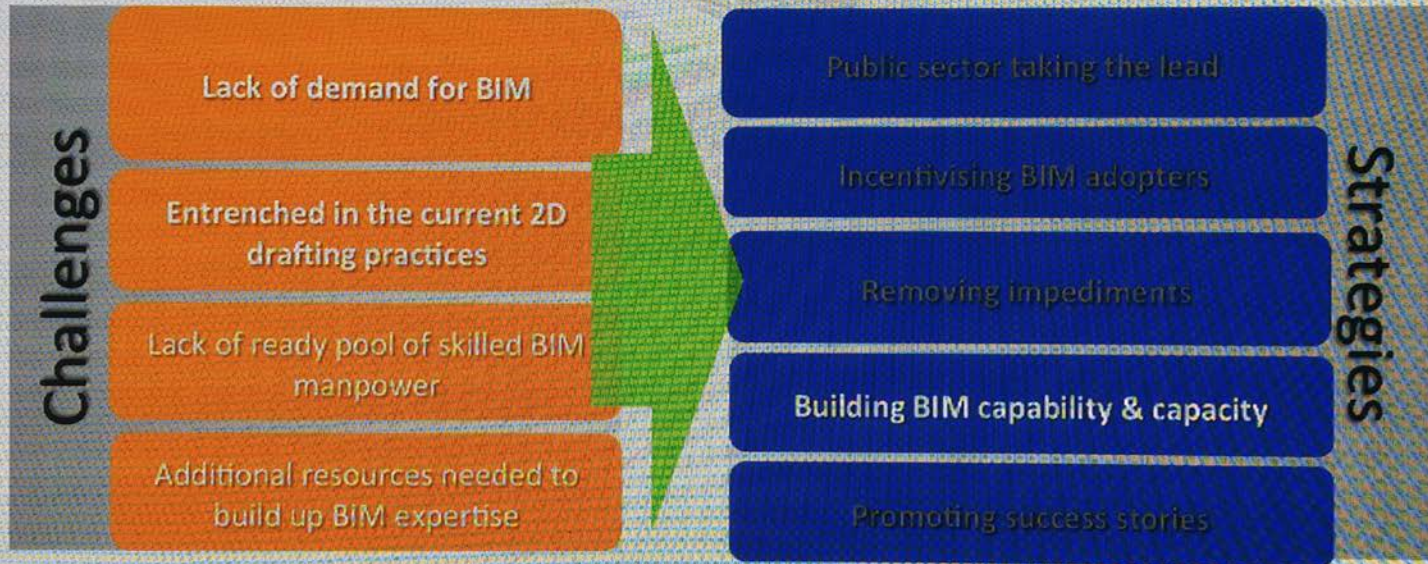
BIM for FM & Smart City

Research & Development

Incentivising BIM adopters

- Helps companies defray part of BIM adoption costs (training, consultancy, hardware and software)
- Two schemes:
 - Firm Capability Scheme
 - Project Collaboration Scheme
- BIM Collaboration Fund Version 2 

The 1st BIM Roadmap



Conclusion

- **Singapore 2nd BIM Roadmap: A strategic move from promoting BIM adoption to Virtual Construction, FM, and City Model**
- **VDC/BIM will be the key technology to push forward in productivity**