BIM in Hong Kong: Time to Leap

Ivan WONG
Senior Manager – Council Services
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Why is CIC here?

Back to Year 2011…..

• CIC organised a seminar on Building Information Modelling in 2011

• With overwhelming responses, “Committee on Environment and Technology” of the CIC started deliberating how to address the needs and enthusiasms of the BIM stakeholders
Issues to Tackle

Two critical issues

1. Many stakeholders have already been working on BIM, how to gain synergy?

2. What should be done to effectively drive the adoption of BIM in Hong Kong?

➤ Working Group on Roadmap for BIM Implementation chaired by Ms Ada FUNG was set up
## Membership of the Working Group on Roadmap for BIM Implementation

**Chairperson**  
Ms. Ada FUNG  
Hong Kong Housing Authority

### Professionals / Specialists
- Hong Kong Institute of Surveyors  
- Hong Kong Institution of Engineers  
- Hong Kong Institute of Architects  
- Hong Kong Institute of Building Information Modelling  
- The Association of Consulting Engineers of Hong Kong  
- The Association of Architectural Practices  
- British Chamber of Commerce  
- Hong Kong Institute of Utility Specialist

### Clients
- The Real Estate Developers Association of Hong Kong  
- Housing Authority  
- MTR Corporation  
- Development Bureau  
- Architectural Services Department  
- Buildings Department  
- Highways Department

### Contractors
- Hong Kong Construction Association  
- Hong Kong General Building Contractors Association  
- The Hong Kong Federation of Electrical and Mechanical Contractors

### Academics
- University of Hong Kong  
- The Chinese University of Hong Kong  
- The Hong Kong Polytechnic University  
- Institute of Vocational Education
What we found

<table>
<thead>
<tr>
<th>Country</th>
<th>Details</th>
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<tbody>
<tr>
<td>USA</td>
<td>The General Services Administration requires mandatory BIM submission for government projects since 2008. They are mature in using BIM and are leading BIM practice.</td>
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<td>Singapore</td>
<td>They determined national-wide implementation roadmap in 2011; and now require mandatory use of BIM from 2015 onwards.</td>
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<td>United Kingdom</td>
<td>Government requires mandatory use of BIM in public sector from 2016 onwards. They target themselves to become BIM leader in European region.</td>
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<td>Mainland China</td>
<td>BIM has been included as part of the National 12th Five Year Plan (2011 – 2015) and is formulating a BIM framework.</td>
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<td>Other 10+ Countries</td>
<td>Majority of European countries, Canada and South Korea require the use of BIM in public construction projects, and, some of them set up agencies to manage national-wide implementation and introduced good practices and standards.</td>
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Global Leading Practices vs Hong Kong Practice

bimSCORE

Planning

Adoption

Technology

Performance

Conventional Practice

Typical Practice

Advanced Practice

Best Practice

Innovative Practice

Leading Practice Countries

Leading Practice Countries

Leading Practice Countries

CONSTRUCTION INDUSTRY COUNCIL 建造業議會
What we have experienced …

a. The CIC and Hong Kong Housing Authority were invited to participate in the joint APEC and ASEAN forum on “How Building Information Modeling Standards Can Improve Building Performance,” in June 2013 at Medan Indonesia.

b. The CIC coordinated delegates from relevant HKSAR Government Works departments and Hong Kong Housing Authority to the Government BIM Symposium and International Panel of Experts on BIM in Singapore in July/August 2013

Then we see,

CHANGES in Hong Kong
Report on BIM Roadmap

The Working Group has come up with the Final Draft Report on the Roadmap for BIM Strategic Implementation in Hong Kong’s Construction Industry.

The 16 recommended initiatives in 9 areas:

1. Collaboration
2. Incentive and Proven Benefit
3. Standard and Common Practice
4. Legal and Insurance
5. Information Sharing and Handover
6. Promotion and Education
7. Compliant BIM Tool
8. Audit and Risk Management
9. Global Competitiveness
4. The 16 Initiatives for the Implementation

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<tbody>
<tr>
<td>A</td>
<td><strong>Collaboration</strong></td>
<td>1. To setup industry recognised co-ordinating body to foster collaboration locally and internationally</td>
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<td>2. To promote project-wide collaboration along project supply chain</td>
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<td>3. To assign a BIM manager in the project team</td>
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<td>B</td>
<td><strong>Incentive and Proven Benefit</strong></td>
<td>4. To promote public and private clients to take the lead</td>
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<td>5. To build up a collection of client’s initiatives with proven benefit</td>
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<td>6. To render support to small scale companies</td>
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<td>C</td>
<td>Standard and Common Practice</td>
<td>7. To establish delivery standard and common practice</td>
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<td>D</td>
<td>Legal and Insurance</td>
<td>8. To review procurement practice and contract provisions</td>
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<td>9. To review IP right and data ownership</td>
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<td>G</td>
<td>Compliant BIM Tool</td>
<td>14. To enable and assure sufficient digital capability and vendor support</td>
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<td>H</td>
<td>Audit and Risk Management</td>
<td>15. To adopt strategic risk management for BIM implementation</td>
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<td>I</td>
<td>Global Competitiveness</td>
<td>16. To maintain Hong Kong AEC competitiveness among worldwide competitors equipped with higher productivity and new technology</td>
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Imminent Ways to Leap

**ESTABLISHMENT OF STANDARD** - to devise a set of common standards or good practice or reference document for the use of BIM in construction projects to facilitate those users who wish to adopt or widen the usage of BIM;

**PROMOTION** - to carry out more promotional activities targeting those industry stakeholders who are not familiar with the usage and benefits of BIM, especially allowing top management of major project clients, whom are regarded as the key drivers on the user of BIM, to understand the benefit brought about by BIM; and to plan their organisation to get prepared for adoption the BIM;

**TRAINING** - to build up BIM capacity by driving curricular change in construction related programmes and computer science programmes of academic institutes; and providing BIM training with respect to 3 areas: BIM model development, management of BIM, and use of BIM model.
Call for Collaboration

- CIC is a platform for the communication and collaboration among stakeholders of the construction

- We will work hand-in-hand with BIM stakeholders and construction industry stakeholders to promote wider application of BIM in Hong Kong like what the BIM stakeholders have achieved in preparing the Report on the Roadmap for the BIM Implementation

- A number of BIM promotional activities in the pipeline for implementation through the concerted efforts of the whole industry
CIC Conference 2013

29 November 2013

4 Overseas Speakers:
Australia, Singapore, UK and USA

2 Keynote Speaker:
Secretary for Development
Secretary for Transport and Housing

Key Topics:
- Global BIM Practices & their Latest Trend
- Maximizing Value of BIM
- Legal Implications of BIM
- BIM in Facilities Management

http://www.hkcic.org/conference2013
We are here to assist.

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