

## Building Information Modelling (BIM) Acceleration

To April 2016

### Highlights this period

The major achievements over the past six months have been

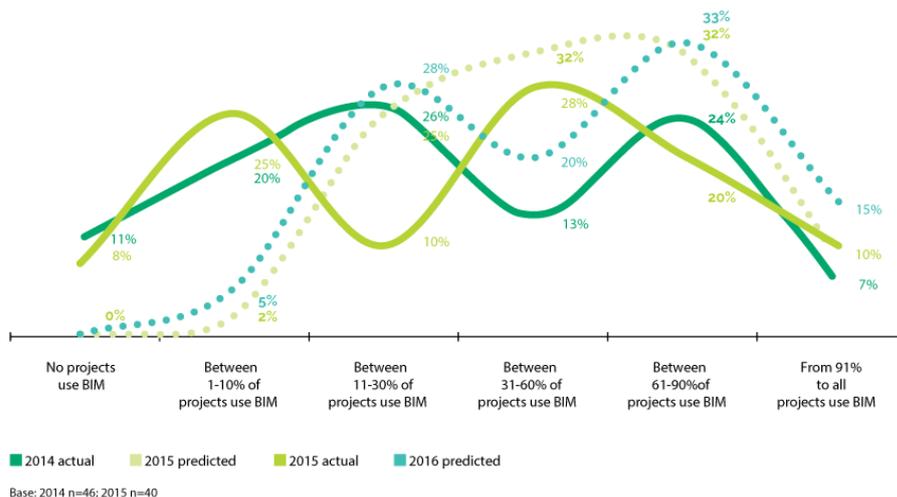
- EBOSS survey results that show BIM is increasingly being used, and its use is anticipated to continue to grow in the year ahead
- Agreeing an approach to following up the initial industry training and ensuring this is well connected to the tertiary education sector continues to work. This is a relatively novel experience for our tertiary sector colleagues
- Meeting our closest Australian equivalent, and observing that the New Zealand model appears more effective
- Securing dedicated resource for the government as a client project which is the major foundation of the acceleration strategy
- Refreshing the acceleration strategy, and programme for the next 12 to 18 months
- Evolving the story of the committee from a legacy of the Productivity Partnership to a point of co-ordination for BIM practitioners, (particularly in the major centre networks). This could be the basis of the committee's legacy.

### BIM survey

A second [BIM survey for 2015](#) was completed. The survey found that BIM is being used more frequently by the control group and they expect this to continue to increase. This is the second annual survey in a five year series.

Some of the control group's forecasts for use in the year surveyed were overly optimistic, but still showed growth in the percentage of projects using BIM, by the control group from 34% to 45%, with 57% expected next year.

ESTIMATED PROPORTION OF PROJECTS THAT USE BIM



## Industry training and higher education

The August BRE training courses have highlighted the support and interest for BIM and created significant momentum amongst BIM professionals and the higher education sector.

### ***Next phase of industry training***

Following on from the BRE training courses in August, professional bodies are taking forward the next phase of industry training. A two stage approach is proposed:

1. A half day workshop to a wider audience across the country
2. Half day workshops to smaller groups within professions – targeted at profession specific uses of BIM

The committee is working with the professional bodies (i.e. IPENZ, NZIA, NZIQS etc.) to shape the next phase of training.

### ***Higher education***

The committee is working with the tertiary providers and continuing to find ways to cement the collaborations across the higher education sector. Our tertiary education colleagues comment on the novelty of the level of collaboration between institutions and industry.

### ***BIM 'sandpit'***

The opportunity for a hands on BIM sandpit for practitioners has been identified and is being actively pursued.

## BuildingSmart Australasia meeting

The committee met with the BuildingSmart Australasia board at its December meeting. Both are working to increase adoption of BIM in their respective countries. The smaller size of New Zealand and the different political dynamics with a single national government were seen as advantages that New Zealand has made the most of. We will maintain the connection and share learnings to assist each other where possible and practicable. A second meeting has been scheduled for October 2016.

## Government as a client

This project is central to the acceleration strategy. The risk from the absence of dedicated resource has been a recurrent theme of previous reports.

Gleb Speranski has been appointed as MBIE's Senior Advisor, Innovation. Gleb will work alongside Pete Cunningham on 'Government as a client', with the intention that he will continue as project lead after October, if not sooner.

Pete Cunningham is now contracted to October 2016 to determine the maturity of potential government BIM clients, the barriers to adoption they face and how these are changing over the life of the project. A report has been produced on Government as a client challenges using BIM on NZ

construction projects. He will also scope whether, and how to procure, a BIM technical resource for Government clients.

This work builds on the report in July 2015 that identified potential major government construction clients who could benefit from the use of BIM and identify the potential barriers to their using BIM.

### **BIM strategy**

The committee has considered the feedback from the last update that included:

- What might be done if there were no time and funding restrictions on its work
- Medium density housing and BIM, to understand the implications of changes to the building code on housing affordability and performance of buildings.

The committee ran a number of strategy sessions to consider the questions raised as well as relook at its strategy and consider what the next 2-5 years might look like.

The revised strategy is attached. The key revisions points are:

- to broaden the government as a client project to include:
  - selected (large) local government, and
  - selected large clients.
- to add a new project focusing on supply chain clients and
- to continue with, and strengthen, industry enabling projects:
  - BIM handbook and case studies,
  - training – industry and higher education (including BIM ‘sandpit’, interactive exploration and discovery of BIM), and
  - networks and communication.

The committee is now redeveloping the programme of work and revising the existing project plans with a six month outlook in light of the strategic discussion.

Rather than significantly increasing existing funding, the committee took review that an extension of the period funded would be the most cost effective approach. A paper supporting this is being prepared for the end of June 2016.

### **BIM networks**

Feedback was received from the industry training courses that suggested a regular BIM network/event would be useful for industry.

BIM user groups have been established in Auckland, Wellington and Christchurch. Recent events are proving popular (Christchurch – 140 attendees, Auckland – 100 attendees, Wellington – 80 attendees) and have been fully subscribed. These groups are a restructure of, or a complementary group to, existing Revit user groups. The committee will provide ongoing support to these groups.

Developing a common hub to connect to each other (and with the committee) with the URL name BIMinNZ.co.nz is underway. The committee are working with the networks to help them set up and

provide some consistency between the different groups. These networks may form the foundation for the longer term legacy of the committee's work.

### **BIM handbook and CIC guidelines update**

The BIM handbook review is underway. It was recognised that after an initial period improvements would be beneficial, and the BRE training material and international standards taken into account. The current handbook is well supported with over 100 downloads a month.

The CIC guidelines are also under review by the professional bodies. The committee recognises the importance of this document for guidance in the industry. The Committee sees this sitting alongside the BIM handbook, and referencing to the handbook where needed to eliminate replication of information.

It is expected these two guidance documents will be release simultaneously, probably in mid-late 2016.

### **BIM in NZ case studies**

An additional two [case studies](#) have been produced that target a use of BIM that is not well covered by the existing suite. The uses of BIM covered can be found in [Appendix D](#) of the BIM handbook.

### **Looking forward**

In 2016/17 the committee will:

- Support government clients who show the potential for adopting BIM
- Support the professional bodies to develop a second round of industry training
- Update and release a revised BIM handbook that will integrate with the CIC design guidelines
- Launch a website to connect the committee with the BIM networks that could be capable of outliving the committee as we currently know it
- Present at an asset management and BIM conference (SmartEx) 25-26 July 2016 with Conferenz