

## Building Information Modelling (BIM) Acceleration

To March 2015

### BIM Acceleration Strategy

The BIM Acceleration Committee continues with its cascade strategy that targets key clients by promoting the adoption of BIM use and by raising awareness of the benefits that BIM can offer.

The areas identified by the Committee as being key to increasing the adoption of BIM in New Zealand have progressed over the last quarter with headway made in each area.

The Committee revisits its strategy at each six-weekly meeting to assess current work and to identify areas where efforts should be focussed as BIM acceleration advances.

### Success to date

In addition to the New Zealand BIM Handbook, the five “BIM in Action” case studies and the brochure outlining the Productivity Benefits of BIM as reported on last quarter the Committee.

### Projects

The Committee’s primary project aims to have **Government as a BIM client** by creating and supporting the demand for BIM use in central Government construction clients. In the last quarter the Committee secured a resource to identify potential major government construction clients who could benefit from the use of BIM, to identify the potential barriers to their using BIM and addressing as many of these barriers as possible. There is a real opportunity for synergies between the Committees objectives and those of Government Procurement from this type of arrangement.

Through this project **BIM roadshows** have been identified as a further way to promote BIM and are under development. The roadshows will be held in Auckland, Wellington and Christchurch and will advocate BIM, its uses and advantages when contracting with BIM. The project team is evaluating the most effective way to do these roadshows with the aim to develop and set these in motion within the coming months.

The **terms and conditions** project team held an initial workshop in December. There was wide ranging and robust discussion on the contractual issues associated with BIM such as the order of precedence of the model, definition of deliverables, roles and responsibilities, intellectual property and licencing. The project team is investigating the benefits of revising the CIC Design Documentation Guidelines to ensure the Guidelines meet the requirements of BIM enabled projects.

The **Industry training** project team has had confirmed interest for at least 140 participants for a two-day **BIM training for practitioners** course to be run mid-late 2015. The course will be run by the Building Research Establishment (BRE), and will be a tailored course for NZ and aligned with the NZ

BIM handbook. In addition the Professional Institutes will nominate participants for a Train-the-Trainers course that will allow them to subsequently deliver similar training to a wider audience. The project team is working with BRE to modify the current BRE course to suit the NZ context. Participants on this course will receive appropriate recognition once they have completed the course.

A group of representatives from tertiary organisations meet monthly to discuss the development of **BIM tertiary training**. The group has collaborated to prepare a research funding proposal to MBIE. The proposal is to develop a tool to allow environmental performance analysis at the sketch design stage. In addition all Institutes are compiling a list of their BIM Resources, and reviewing a UK Learning Outcomes Document which is seen to be a starting point for the NZ context and which would be aligned with the NZ BIM handbook.

Five **BIM case studies** have been published to date with a call for further case studies in the works. The five case studies have been mapped against different “uses of BIM” as defined in the NZ BIM handbook. The call for case studies will look to cover uses of BIM not yet covered by the existing case studies.

An external working group with Committee representation has begun to investigate the development **BIM metadata standards** to ensure interoperability of all BIM data. This project is seen as necessary but not a core component of the Acceleration strategy so the Committee maintains an advisory role where appropriate.

Two **industry BIM survey’s** were commissioned through Eboss to both measure how effective efforts to increase the use of BIM are and to get feedback on constraints to its use. Responses have been received for each: the first being a few key questions included in the Masterspec BIM survey to a broad audience, and the second to a target control group. A report is being finalised and will be available in April.

### Further considerations

In the recent revisit and rework of the approach taken by the Committee towards the acceleration strategy there have been delays in projects and subsequently the spending of funds. This was to ensure projects aligned with the strategy and through diligence in initial spending. The Committee has underspent in 2014/15 and as a result the budget for the 2015/16 March financial year now exceeds the cap on funding for BIM acceleration activities.

The potential financial needs that exceed the cap will be carefully managed by the committee. A number of approaches are being discussed to best manage the over subscription. The resulting approach may include a number of the following: reviewing current projects, prioritisation, deferring less essential activities, looking into alternate funding possibilities and routinely monitoring the budget against the actuals.