



# Three year report for the BIM Acceleration Committee

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BIM: BETTER BUILDING PROCESS – BUILDING  
BETTER PERFORMANCE



Funded from the  
Building Research Levy



MINISTRY OF BUSINESS,  
INNOVATION & EMPLOYMENT  
HŌKINA WHAKATUTUKI



**The BIM Acceleration Committee is a collaboration of Industry, BRANZ, MBIE and Tertiary Education – with the purpose of increasing the use of BIM in New Zealand**

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Industry has provided **individual practioner and subject matter expertise and experience** (conservatively estimated at **\$2.140 million** over the first three years)

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Ministry of Business Innovation and Employment (MBIE) provides the **Chair, and staff time/expertise** (estimated at **\$630,000** over the first three years)

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The **tertiary education sector has provided technical expertise** (and is working together between the institutions, which is unusual)

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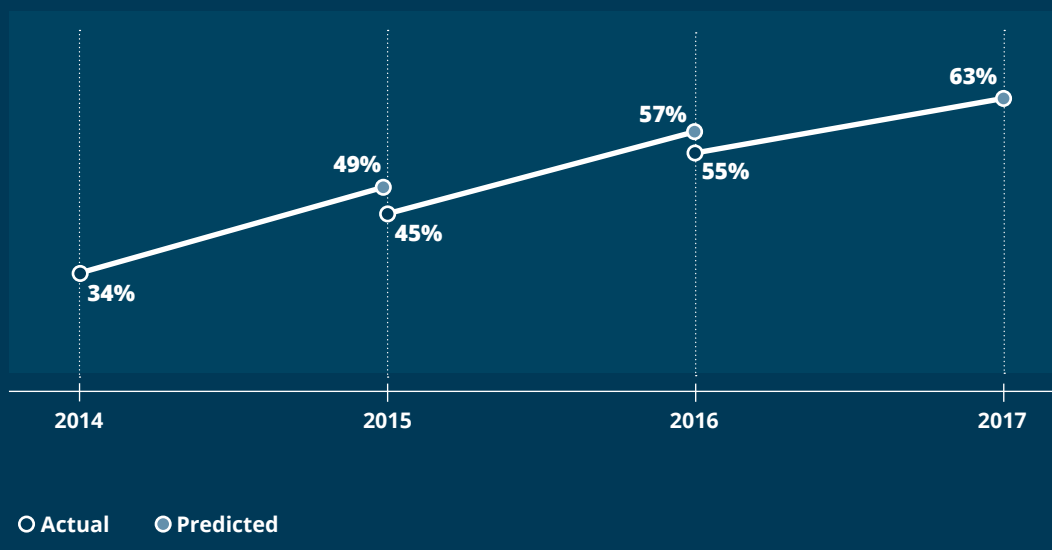
BRANZ provided **\$343,000** over the three years ending March 2017, **secretariat services and staff time/expertise** (and estimated additional \$100,000)

# More New Zealand businesses are using better building processes

Design and construction professionals have significantly increased their use of BIM over the last three years, and intend to use it even more in the year to come.

The Acceleration Committee now have a benchmark for clients' use of BIM for management of asset and facilities performance. EBOSS undertakes this survey for the BIM Acceleration Committee at no direct cost to Committee and has committed to complete this survey for five years.

## Percentage of projects using BIM (Actual vs forecast)



# We have tools, education and advice for better building process

## Advice and tools for the BIM process

The New Zealand BIM handbook describes the key steps and management roles for those wishing to use the BIM process on construction projects. It was 'down-loaded' over a thousand times, before we revised it for further developments in the BIM process. The hand book includes templates which have been downloaded hundreds of times for use in the building process.



## Advice and tools for the building design process

The construction industry standard design guidelines, (the Construction Industry Council design guidelines) now include advice on when BIM should be used in the design process as well as integrating with the updated BIM Handbook.



## Advice and tools for the government building procurement process

The government's construction procurement advice explicitly includes advice on how BIM should be incorporated into the procurement of government buildings.



## Training for building better process

Over 120 people attended a 2 day training in Auckland, Wellington and Christchurch in late 2015 based on a New Zealand version of the BRE industry training (BRE is the UK's Building Research establishment).

This industry training was an important impetus in establishing three regional BIM networks. (See below)

It also provided the core content for key professional bodies to deliver BIM introductory training ('bim 101') for almost a thousand New Zealanders in six regional centres and a free work book on the core content for the training

New Zealand Institute of Building coordinated the delivery of the training by members of the different professional bodies who had pulled the content together. New Zealand Institute of Building's coordinating role was critical in the successful delivery of the training.



## Profiling building better process and building better performance

A suite of seven case studies which profile BIM as a better building process across the design, construct and operate, phases of a building's life.

'The productivity benefits of BIM' profiles how BIM is building better performance.



## Tertiary education for building better process

Coordinated the development of tertiary education content across New Zealand (an outstanding example of collaboration), and established a working group of tertiary and industry trainers to ensure industries skill needs are well met.



# Building better performance through collaboration

The Auckland, Christchurch and Wellington practitioners have established BIM user networks in each centre. These networks contribute to ongoing professional development across all professions using BIM, including clients, and form a critical network for identifying blockages to BIM's use.

## **Building better process using international expertise**

BIM professionals have been included in the list of required skills for immigration applications for two years.

## **Building better process, with national meta-data standards**

Support for the development of draft meta-data standards for houses and light commercial buildings that underpins the ability of BIM to deliver use of the same data set from the design and construction through to operation of buildings.

## **Building better process for better building performance of government buildings**

The Acceleration Committee has raised the profile of BIM with government construction clients and established a wider understanding of its potential benefits in central and large local governments through face-to-face meetings, workshops, case studies and other events.



# Estimated value of contribution by partner

Project	Industry	BRANZ	MBIE	Tertiary Education sector
<b>BIM resources</b>				
BIM handbook (and review)	\$190.9	\$19.2 \$0.5	\$8.5	
CIC design guidelines	\$75	\$0.9	\$2	
Supply chain research	\$12	\$31 \$0.5	\$3	
Metadata standards <sup>1</sup>	\$410	\$6.4	\$125 \$12.4	
<b>Government procurement</b>				
(and) performance of government buildings	\$90.8	\$69.7	\$89.2	
<b>Training and skills</b>				
Initial BRE training and BIM 101	\$100 \$925	\$141.1 \$36	\$98 \$3	
Tertiary Education		\$2.5 \$3	\$2	\$15
Skills list for immigration	\$1		\$2	
<b>Profiling BIM</b>				
Case studies, website other publications	\$69.7	\$68.4 \$14.1	\$46.7	
BIM Networks	\$70.9	\$0.5		
BIM use surveys	\$58.1	\$9.1	\$13	
<b>BIM Acceleration committee</b>	\$151	\$35.2	\$223.9	
Other initiatives not reported here	\$4	\$4		
<b>Total</b>	<b>\$2,140</b>	<b>\$442</b>	<b>\$629</b>	<b>\$15</b>

\$000 = direct contribution

\$000 = estimated in kind contribution

<sup>1</sup> This project is indirectly contributing to the work of the BIM Acceleration Committee, and the estimate includes both industry initiated work and industry time contributing to the government initiated project

[BIMinNZ.co.nz](http://BIMinNZ.co.nz)

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