

Presentation to BEES Seminar, Christchurch

Robert Finch, CEO STIC 13th July 2012



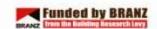
The STIC Stakeholders



MSI Research Consortium



















STIC's Overall Aim



Solutions for the non-housing market



World class research





Portal frames & roofs



World class research





Timber and Timber Concrete Composite floors



World class research





Post-tensioned frames & walls, fire performance, sustainability

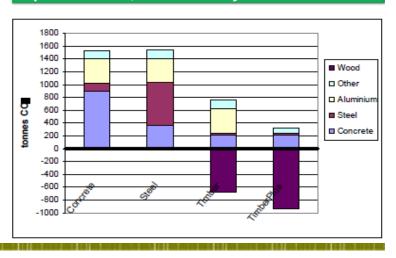


World class research





Post-tensioned frames & walls, fire performance, sustainability



World class research





Durability specification of EXPAN buildings

J S Betz

Gluing of structural sections

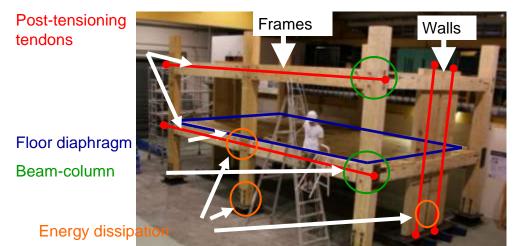








Post-tensioned - how does it work



Delivery – First Design Guide





Delivering R&D to the Marketplace

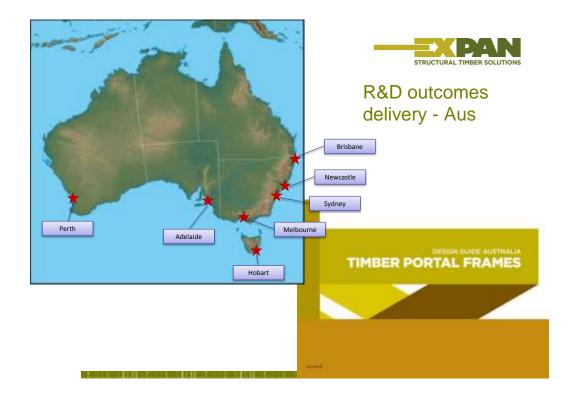






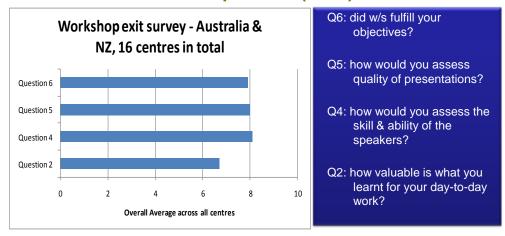


R&D outcomes delivery - NZ





Feedback from Workshop Series (2011)







First Design Guide delivered (2011)



160 new Australian licensees (engineers, architects, constructors)

Success in the Marketplace



First Design Guide delivered (2011)



75 new NZ licensees (engineers, architects, constructors)

Recent Review



MSI Mid-term review

- Review completed in Nov 2011
- Overall summary was very positive, with no major issues identified:
 - "...After almost 3.5 years of operation STIC's progress has been impressive.
 Their approach, centred upon building awareness, ... has resulted in the construction of 8 high profile buildings that will serve as valuable case studies and proof statements for their technology ..."
 - "...STIC has assembled a powerful network of collaborators including the major engineering firms of Arup and Opus..."

Recent EXPAN Multi-Storey Post-Tensioned Buildings (NZ)





NMIT Arts & Media - Nelson



Carterton Event Centre- Carterton



Massey University CoCA - Wellington



EXPAN Office - Christchurch

Recent Portal Frame Buildings (NZ)









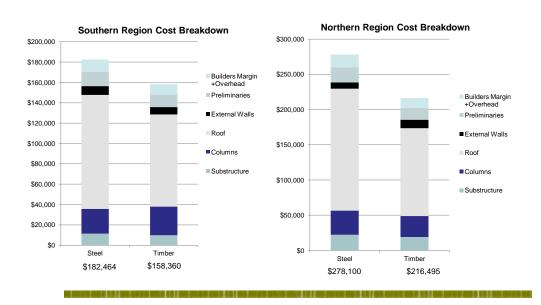




Wairiaki Institute

Costs - Q-C in Australia





New Opportunities



Building opportunities at present

•	
Country	New build opportunities
New Zealand	~18
Australia	~12
TI II	



Snap-shot of Future Design Guide Completion



Jul/Aug 2012 Gluing guide Durability guide Mar 2013 Updated Guide for timber roofs

Aug 2012 Timber rivets design guide Mar 2013
Updated TCC &
All timber floor
design guide

Mar 2013
P-T timber multi-storey
for high & low wind /
seismic areas Design
Guide

Scorecard to date



Description	Target	By When	Achievement
Roll-out workshops	Deliver workshops in Aus & NZ to introduce new DGs	Mar 2011	Workshops delivered in 16 centres in May / Jun 2011. Total participants over 400
Licensed users	2 architect or engineering companies in Aus & NZ & 2 fabricators	Sep 2010	Total of 230 licensees (151 Australia & 79 NZ)by Aug 2011
Post-tensioned multi- storey design guide	Design guide for seismic regions using post-tension techniques prepared	30 Nov 2011	New draft post-tension design guide prepared Feb 2012

The case for the urban forest NMIT – a dense forest!





400m³ LVL 1000m²/floor

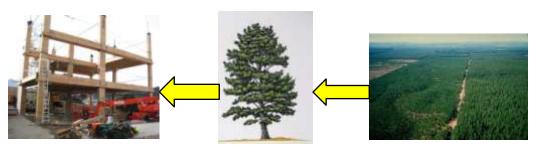
136 full trees

0.54 Ha

Building footprint = 18.4% forest footprint!







300m³ LVL 1000m²/floor

102 full trees

0.41 Ha

Building footprint = 24% forest footprint!

Merritt Bld – a dense forest!





~340m³ LVL 617m²/floor

116 full trees

0.46 Ha

Building footprint = 13.3% forest footprint!

Thank You. Questions?



