‘Māori housing experiences of prefabrication’
Opportunities and challenges

‘PrefabNZ CoLab 2015 ’

Rau Hoskins

Macs Function Centre
Wellington

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Whakapara Marae
Whānau Papakāinga - Whangaruru
Rau Hoskins

- Chairperson Te Matapihi National Māori Housing Organisation
- Director design TRIBE architects – Rural and Urban Māori housing projects
- Part time lecturer in Architecture at Unitec
- Co developer of the Te Aranga Māori Design Strategy and Principles
- Auckland Council Urban Design Panel member
- Auckland Council Public Art advisory panel member
Focus

- Papakāinga Prefabrication projects
- The nature and challenges of Māori housing projects
- Opportunities for the sector
Whare Nikau – Puatahi Marae 2006
Nature of Māori housing sector

- Finance options constrained – Small TPK fund
- Look to build long term working relationships with mana whenua – they aren’t going anywhere….
- Work collaboratively to build your skills
Mōkai Papakāinga – Taupo 2002

10 dwellings - Tuffbuild prefabricated 50mm panels - timber frame with ply cladding and lining plus polystyrene insulation

4 dwellings - Fairway homes built in Auckland single piece move to Mokai

Turangitukua Papakāinga - Taupo 2004
10 x 2 bedroom kaumatua flats - Hirangi Marae

Village / cluster concept plan and whare designs
Turangitukua 2 bedroom kaumatua flats
Urban Fringe Papakāinga

Pūkaki Marae
Te Akitai Iwi
Mangere, South Auckland

- 18 new dwellings
- 2-5 bedroom
- Communal garden areas
- Communal maintenance
- Walkway to marae
- All whare owned by the Trust and leased to whānau
- 10 dwellings complete
- Ehome global
Two bedroom duplex units
5 bedroom courtyard whare
Nano Whare Project

- Acknowledging original simple Māori domestic dwelling
- Economic realities – growing house sizes
- Lack of modern Māori accommodation options – tourism
- Short term kaumātua accommodation
- Marae / emergency accommodation
- 31.5m² including mahau – student design and construction
Nano whare

Section view showing mahau, kitchen and bedroom alcove
Nano whare

Section view showing mahau, living room, bedroom alcove & ensuite
Nano Whare

• Familiar vernacular ‘whare’ design with modern twist
• Mahau / porch as core living space
• Compact living, dining kitchen
• Bed alcove
• Wheel chair accessible Ensuite
• Bulkhead storage
• Designed for off the grid and grid connected locations
• Under construction at Unitec – completion by May 14
Nano Whare
Nano Whare
Opportunities for the sector

• Prefabricated kitchen and bathroom units to enhance existing developments
• Cluster housing solutions made up of connected smaller living and bedroom / sleeping units – ease of transportation
• Co-design and production with Māori partner organisations / iwi
Ka huri