

Kāinga Ora Retrofit Programme

Building a Programme to Retrofit - in action, at scale

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221 Riverside Drive, Lower Hutt– the Millennial Retrofit


Agenda

Retrofit

- Retrofit at Kāinga Ora
- History
- Programme
- Challenges
- Lessons
- Opportunities

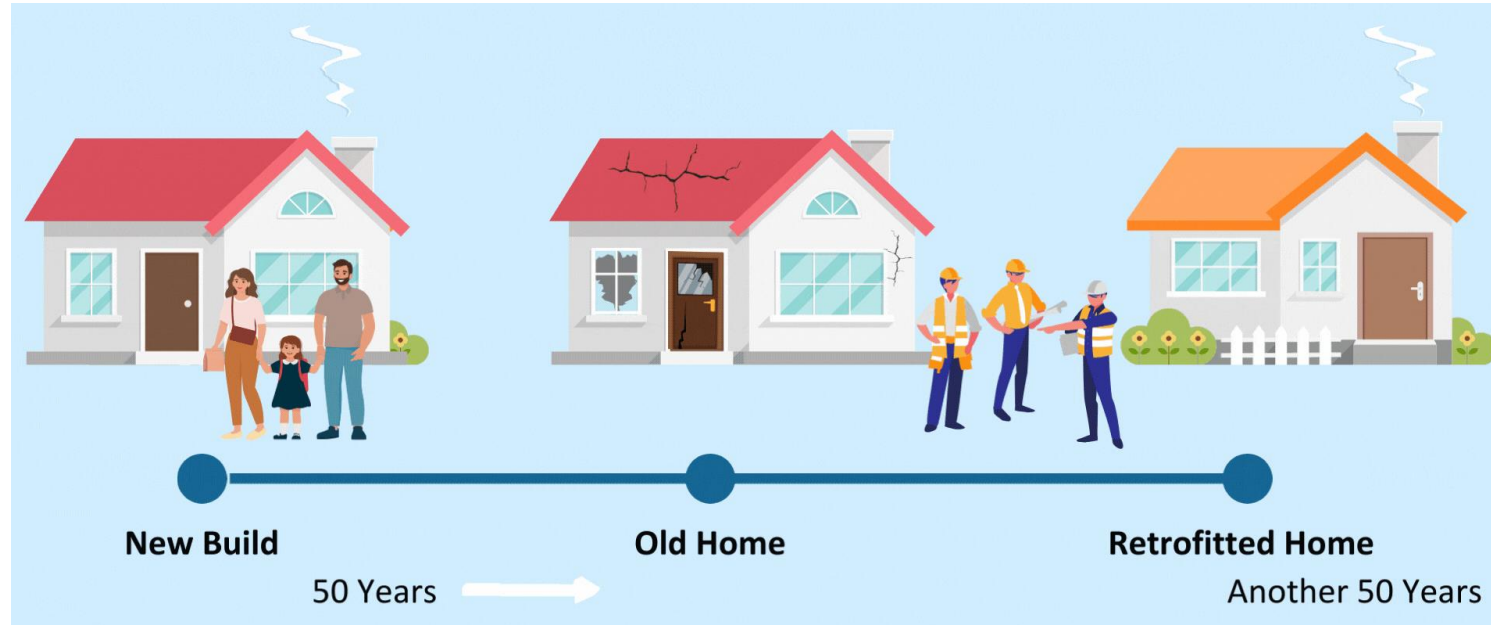


Retrofit: the case for Kāinga Ora to do the work

	Pre 1936	1937-49	1950-65	1966-85	1986-1999	2000+
						
Owned homes (number)	456	8,412	13,370	18,112	9,673	18,324
Owned homes (percentage)	1%	12%	19%	27%	14%	27%
Description	Villa & Californian Bungalow	Brick Weatherboard Native timber	Brick Weatherboard Native timber	Innovative Lightweight, low cost materials	Pre-modern	Modern code & specifications
Expected life (years)	80-100	70-90	70-90	40-50	50	50
Customer concerns	Cold & drafty	Cold & drafty	Cold & drafty	Cold & damp	Damp	Few
Operating costs	High	High	High	Moderate	Moderate	Low

- An aging portfolio, with the need for investment. 45,000 homes will require significant capital reinvestment in the next 20 years.

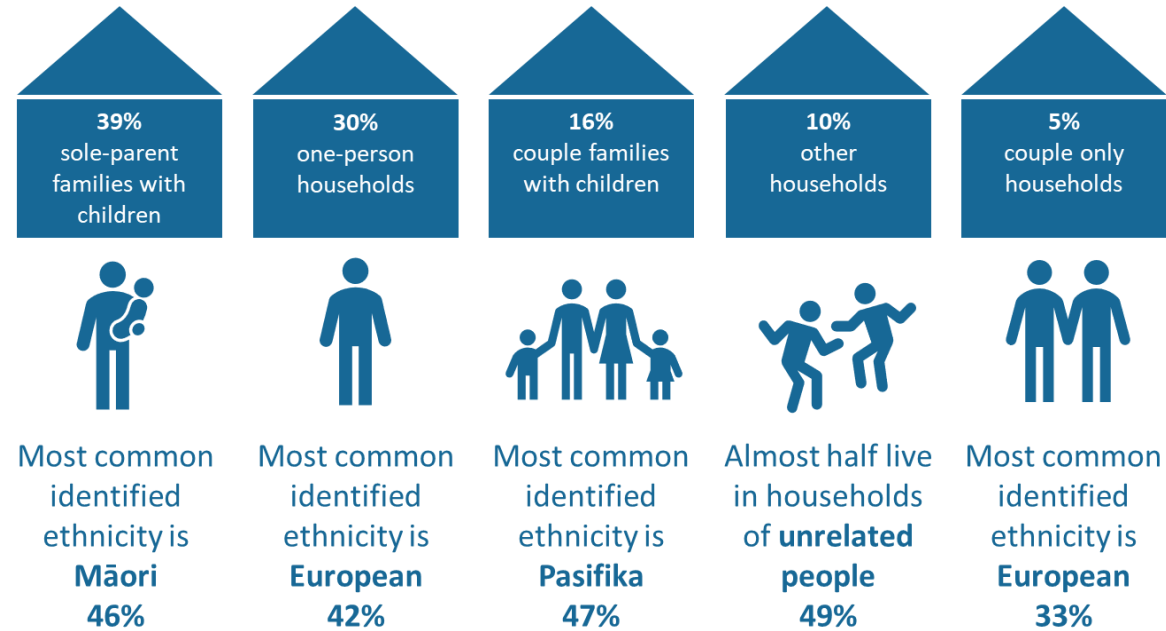
Retrofit: *the case for Kāinga Ora to do the work*



- Capital investment in an old home that has reached the end of its economic life – it has past the ‘use by’ date
- Retrofit Option: Re-set the life of the property, as near as practicable to a new one, ensure it is fit for purpose for our customers for our future.

Retrofit: *the case for Kāinga Ora to do the work*

Our household cohorts



- Our tenant's household demographics are diverse – fundamental need for all, is a safe, warm and dry home.

The Work: *what we do – scope*



- **Retrofit:** performance improvements – thermal or technology upgrade
- **Renovate:** Modernisation and utility Improvements – value and use improvements
- **Maintain:** Maintenance – fixing and replacing what is broken

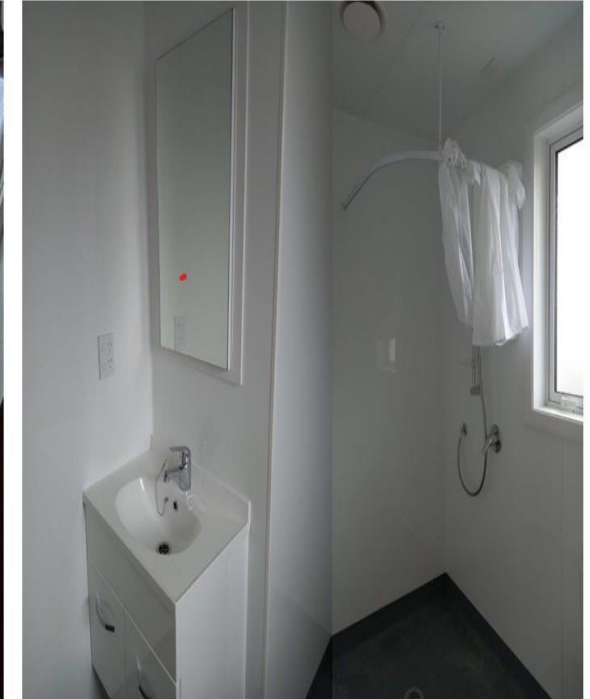
The Work: *what we do* – Standard

Retrofit Standard

- Similar standard applied universally
 - **Retrofit:** Thermal performance improvement
 - Full insulation
 - High performance double glazing
 - Improved airtightness
 - Efficient heating
 - **Renovate:** Modernisation and utility Improvements
 - Open plan living / reprogramme house plan
 - Accessibility features
 - Replaced kitchens / bathrooms,
 - Updated finishes etc.
 - **Maintain:** Maintenance re-set
 - Asset “Birthday” – re-set the life of the asset.
 - Fix or replace what is broken



Speedy St Before



Speedy St After

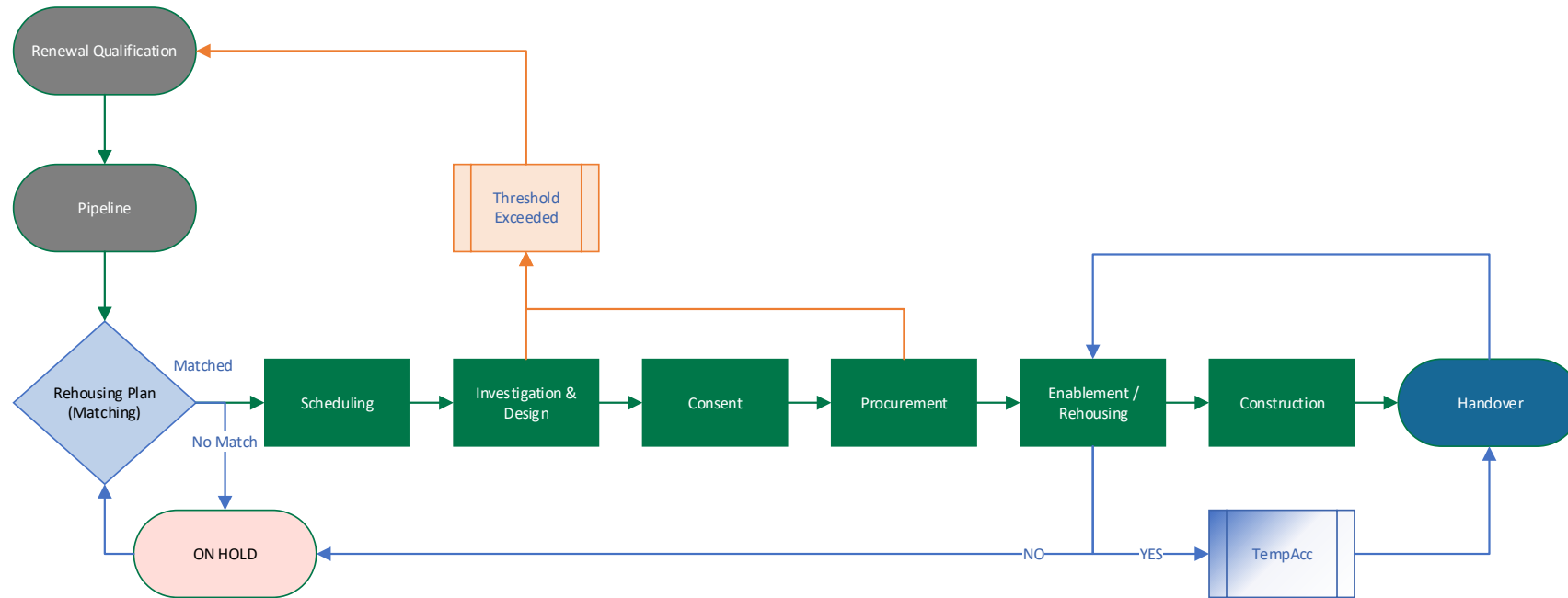
Retrofit: *a History*

Programme Timeline

- **2018:** Retrofit pilot launched – thermal upgrades of 66 homes in the Hutt Valley
- **2019:** Stage 1 – more advanced work on 200 homes; scheme broadened to Bay of Plenty, Hawke’s Bay, and Canterbury
- **2020:** Programme engages widely with market – seeking NZ-wide contractors for delivery in 18 towns
- **2020/21:** Comprehensive Retrofit Programme Scoping Guide resource developed
- **2023:** Scaled programme targeting 700 units/annum
- **2024:** Built a reliable and consistent pipeline and strong supplier relationships to enable both capability and capacity – fully national programme



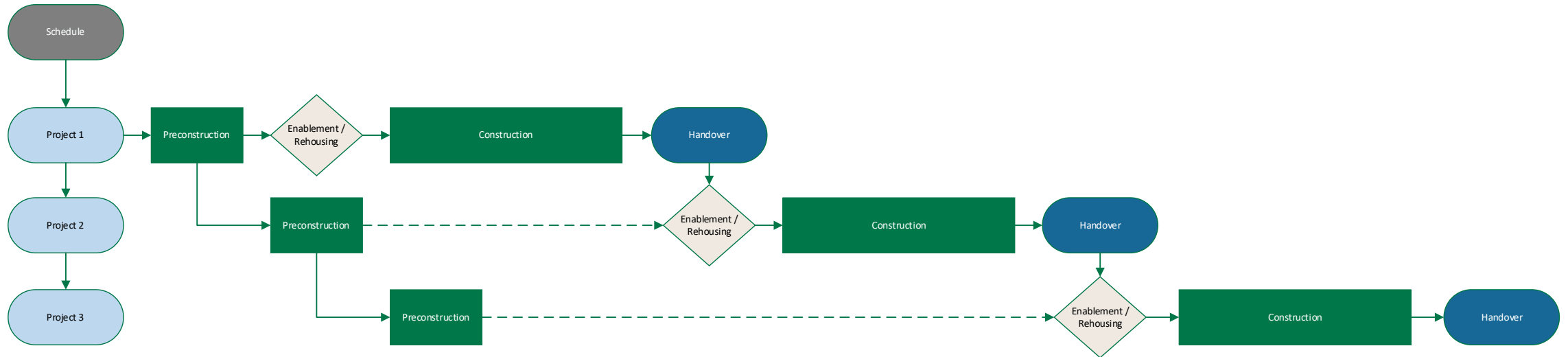
The Work: *how we do it* – Project



Project Lifecycle

- Plan, engage, schedule
- Prescribed milestones for every project, along logical, industry standards
- Re-housing a focus

The Work: *how we do it* – Programme



Programme

- Linked projects together with dependencies including rehousing options, capacity of resourcing (designers, builders, consenting officers, tenancy managers etc.)

The Work: *how did we go* – *Early Lessons*

- Disruptions to the lives of people are hard to do well
- Trust is earned
- Reliability is not a given
- Ambition to rise to the challenge is not that infectious
- What we do is misunderstood, priorities conflict.
- Constraints and risks are mis-assigned, or not well understood.



The Work: *Broader Challenges*

Cost

- Making the case to invest
- Inherent bias towards other forms of renewal

Scope

- Perfect vs Pragmatic
- Scale

Industry

- Unproductive?



The Work: *Lesson(s) Learned*



- Be reliable.

The Work: *how we do it* – Programmed Solutions

Customers

- Schedule with focus on the most impacted – our tenants. Build some reliable comms and planning for them to work with.

Suppliers

- Focus on us, as a client – improve our reliability
- Schedule to provide consistent, reliable and sustainable pipeline of work

Materials

- Focus on unreliable materials, contract to make these reliable

Culture

- Building strong relationships - Common theme – be reliable, this goes for everyone in the supply chain!
- Appropriately allocated risk and issues management.



Barbara's Retrofitted Home

The Work: *Programming for Change*

Strategy

- Clear Goals

Plan!

- Plan for reliability

Data

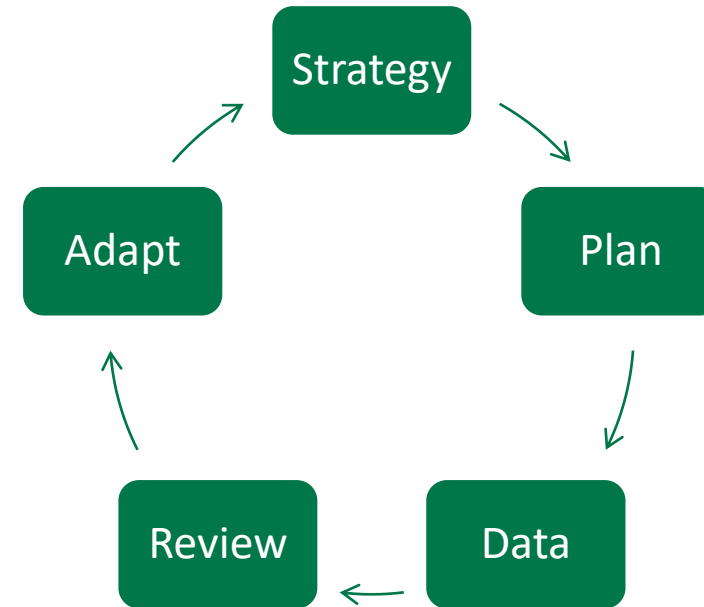
- To be able to meaningfully review, you need good reliable data

Review

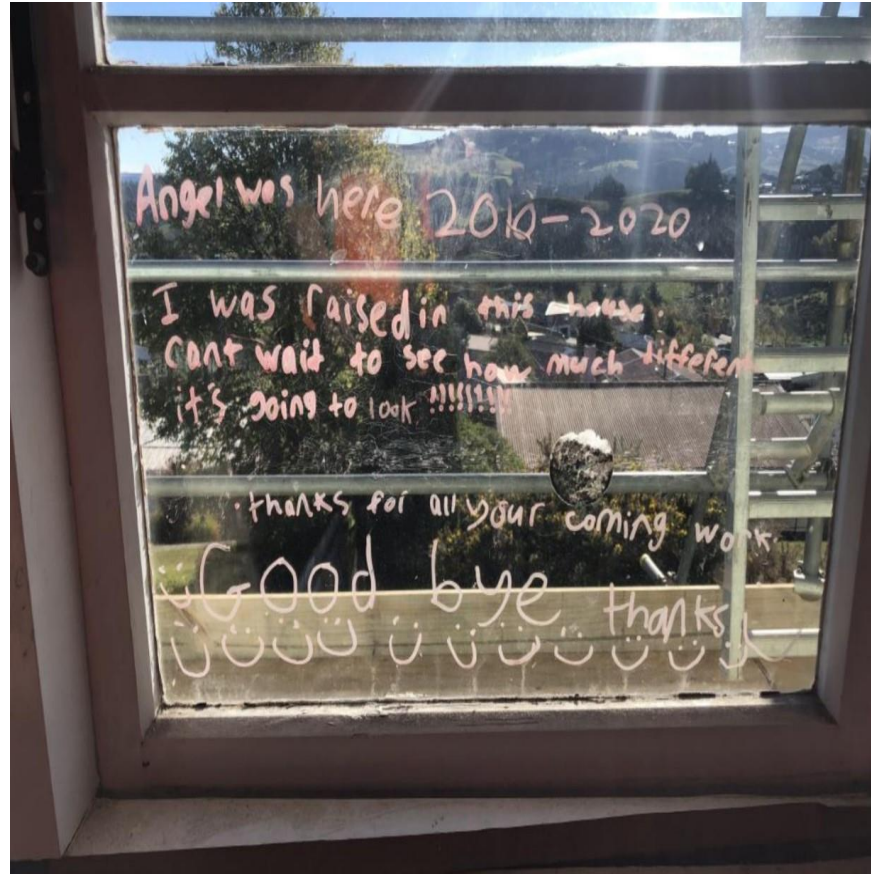
- How ever good your plan, it's also wrong, so keep looking and

Adapt

- Adapt and change as circumstances change.



Opportunity



- Improve our housing – the need is there, the **why** is known, the **who** is known. But the **when** keeps being delayed - **What can we do about it?**