Our Land and Water National Science Challenge

Toitū te Whenua Toiora te Wai

Resilient Rural Communities
Aligned Programme at AgResearch
To co-design, construct and evaluate pathways that will build greater rural community resilience capacity at the farm and community scale.
Resilience Framework

Social
Social inclusion, networks, organisations, health, housing, leisure, education, families, and skills base.

Cultural
Records of cultural knowledge, intergenerational practices, arts and crafts, and tikanga.

Economic
Productivity, profitability, employment, infrastructure, innovation, and value chains.

Institutional
Social license, regulation, infrastructure, services, local government, Māori institutions, and identity.

Environmental
Land resources, water, landscape, biodiversity, biosecurity, and climate change.

External
Natural resource base, national government, international markets, and wider society.
Resilience at multiple scales

Resilience occurs at different scales and the scales interact with each other.

**National**
National resilience sets an important context for rural community resilience. Demographics, economic performance, and political issues need to be recognised.

**Intermediate**
Regional, district, and catchment resilience creates the immediate context for people, whānau and families, local communities, and farmers.

**Farm Households**
Farm households are ultimately where decisions are made and where resilience affects people, whānau and families.
### Project/Planning Matrix

<table>
<thead>
<tr>
<th>National</th>
<th>Intermediate</th>
<th>Farm Households</th>
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#### Framework Components
- Social
- Cultural
- Economic
- Institutional
- Environmental
- External

#### Resilience Framework

[Diagram showing resilience framework levels and components]
<table>
<thead>
<tr>
<th>THE RRC PROJECT MATRIX – 2015-2017</th>
<th>RRC RESILIENCE FRAMEWORK</th>
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<tbody>
<tr>
<td><strong>Social</strong></td>
<td><strong>Cultural</strong></td>
</tr>
<tr>
<td>National</td>
<td>Māori youth</td>
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<tr>
<td>Intermediate</td>
<td>Māori youth TempAg Wairoa Southland Waikato LIBS Regional growth Tech foresight</td>
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Overall picture

**Scales**: focused on community and farm
- Little at the national scale
- Are we integrating across scales?

**Dimensions**: more focused on economic and environmental than others, but not exclusively
- Not sure about External
- Cultural may be focused on Māori
- Working across several dimensions on several projects

**Challenge Mission**
“To enhance primary sector production and productivity while maintaining and improving our land and water quality for future generations”
How OLW research is structured

Three key themes, all interconnected with The Nexus
Linking OLW and RRC

Theme 1: Greater value from global markets (~ 8 projects)
- RRC resilience work → several integrative projects
- RRC entrepreneurship → business-focused projects

Theme 2: Land and water use (~ 36 projects)
- RRC entrepreneurship → Next Generation, P21, Future farming
- RRC Māori land → land use and forestry projects

Theme 3: Collaborative capacity (~ 6 projects)
- Focused on collaboration and integration
- Applying Framework to this portfolio

Nexus
- Overarching thinking, integration – similar to the purpose of the Framework
- Links to Integration and Implementation Sciences (I2S)
Responding to review comments

Integration with value chain concept
• RRC focus is on farms and communities
• Business innovation, Kaitiaki decision-making, Eco-system services: concern with final consumer
• Question for current work with Theme 3

Engaging with end users
• Farmers, entrepreneurs, regional councils, Māori entities
• They are part of developing solutions, but also part of framing research questions

Vision Mātauranga
• Co-design with Ngāti Pāhauwera, development of Kaitiaki decision-making tool
• Work with Māori youth and in Wairoa with Māori stakeholders
Questions