

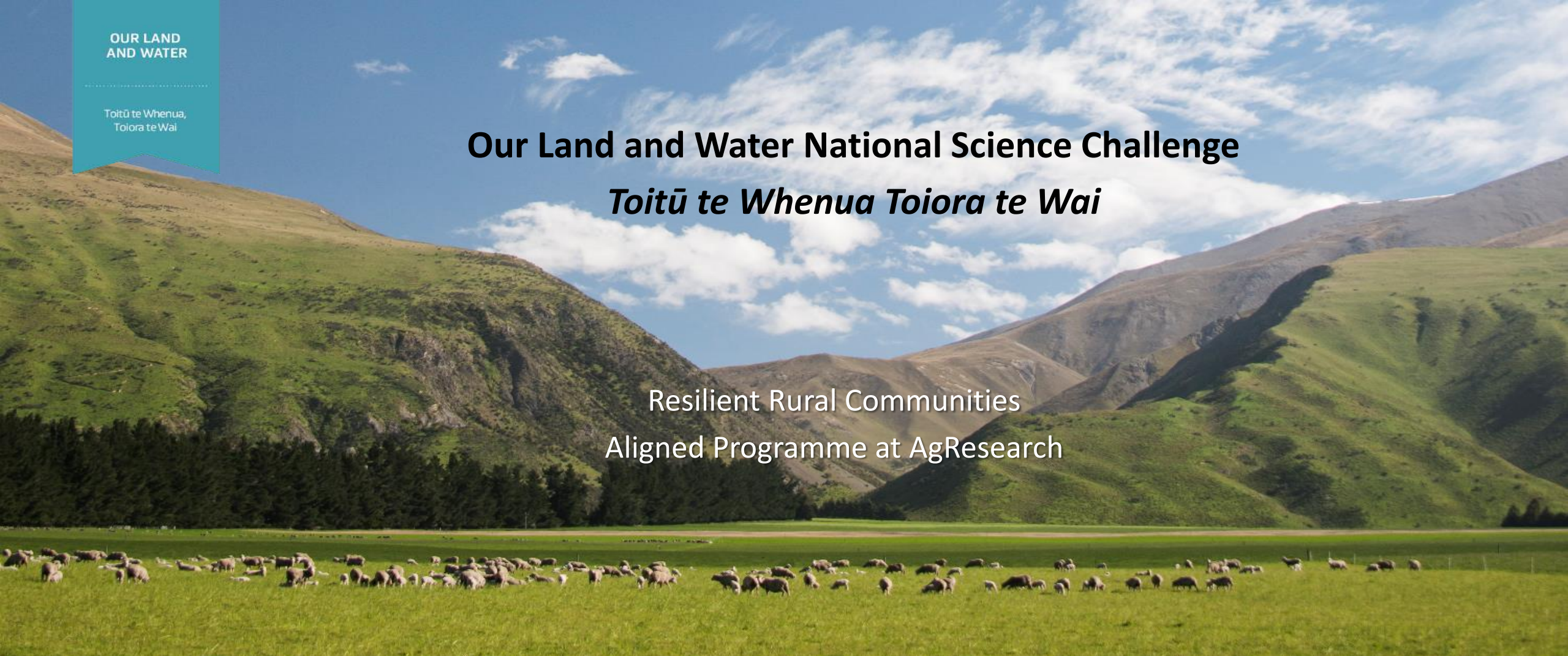
OUR LAND
AND WATER

Toitū te Whenua,
Toiora te Wai

Our Land and Water National Science Challenge

Toitū te Whenua Toiora te Wai

Resilient Rural Communities
Aligned Programme at AgResearch

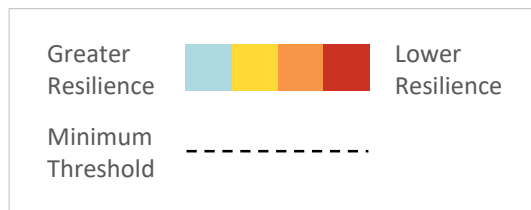
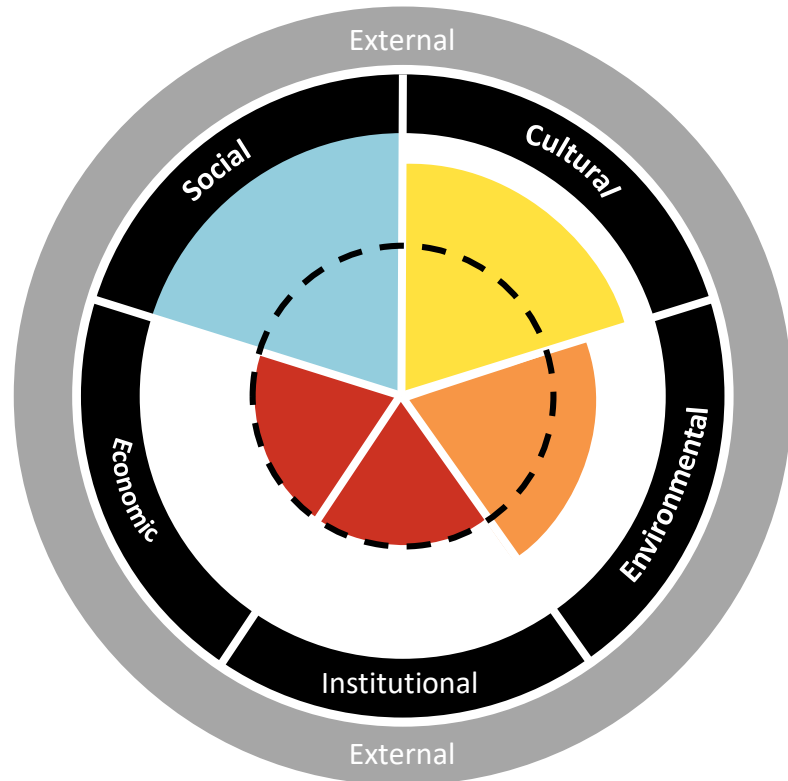


Purpose of Resilient Rural Communities

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.

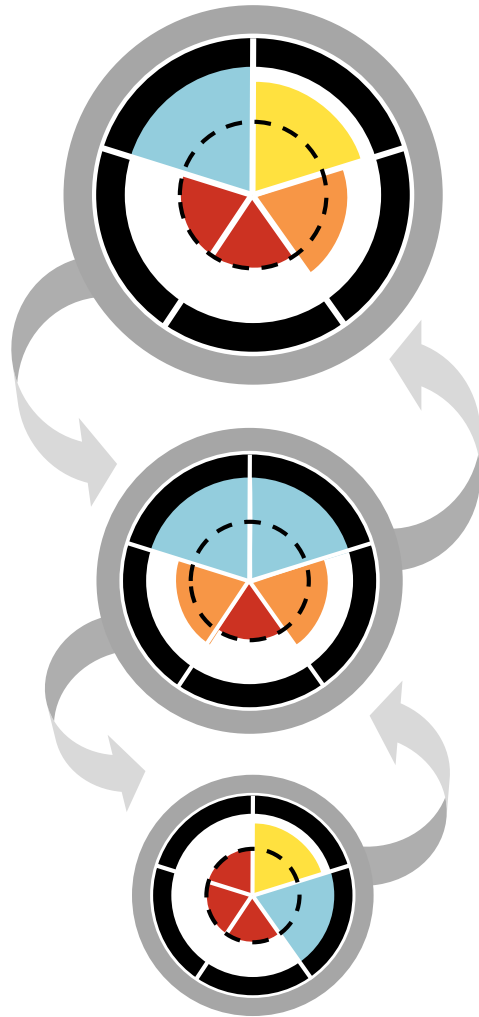
Environmental

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

	Social 	Cultural 	Economic 	Institutional 	Environmental 	External 
National 						
Intermediate 						
Farm Households 						

	 <p>Social</p>	 <p>Cultural</p>	 <p>Economic</p>	 <p>Institutional</p>	 <p>Environmental</p>	 <p>External</p>
<p>National</p> 	Māori youth		The digital era Māori RF-MAS	OLW Co-lab OLW Nexus integration	Eco-system services	Business innovation Dairy feeds Foresight seminars
<p>Intermediate</p> 	Māori youth TempAg Wairoa Southland Waikato LIBS Regional growth Tech foresight	Māori youth TempAg Wairoa Southland Waikato LIBS Tech foresight	Māori RF-MAS Business innovation Dairy feeds TempAg Wairoa Southland Regional growth Dairy farming Farm community Irrigation Tech foresight	Waihou LIBS TempAg Wairoa Southland SLUI/WFP Regional growth Irrigation Tech foresight	Māori RF-MAS TempAg Wairoa Waikato LIBS Eco-system services Dairy feeds Māori youth Homegrown feeds Resilience and WFPs Tech foresight	Māori RF-MAS Tech foresight
<p>Farm Households</p> 	Landowner behavior Wairoa Māori youth Farmer wellness Kaitiaki D-M Framework SLUI/WFP OLW Co-lab	Kaitiaki D-M Framework Waihou farm optimization Wairoa Māori youth Farmer wellness Tech foresight	Next Generation Solutions TSARA Kaitiaki D-M Framework SLUI/WFP OLW Co-lab Landowner behavior Business innovation RF-MAS/INFORM Dairy feeds Farm optimization Irrigation Homegrown feeds Tech foresight	Kaitiaki D-M Framework SLUI/WFP Tech foresight	Next Generation Solutions TSARA Kaitiaki D-M Framework SLUI/WFP Landowner behavior Eco-system services RF-MAS/INFORM Farm optimization Irrigation Homegrown feeds Resilience and WFPs Tech foresight	Next Generation Solutions Business innovation Tech foresight

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

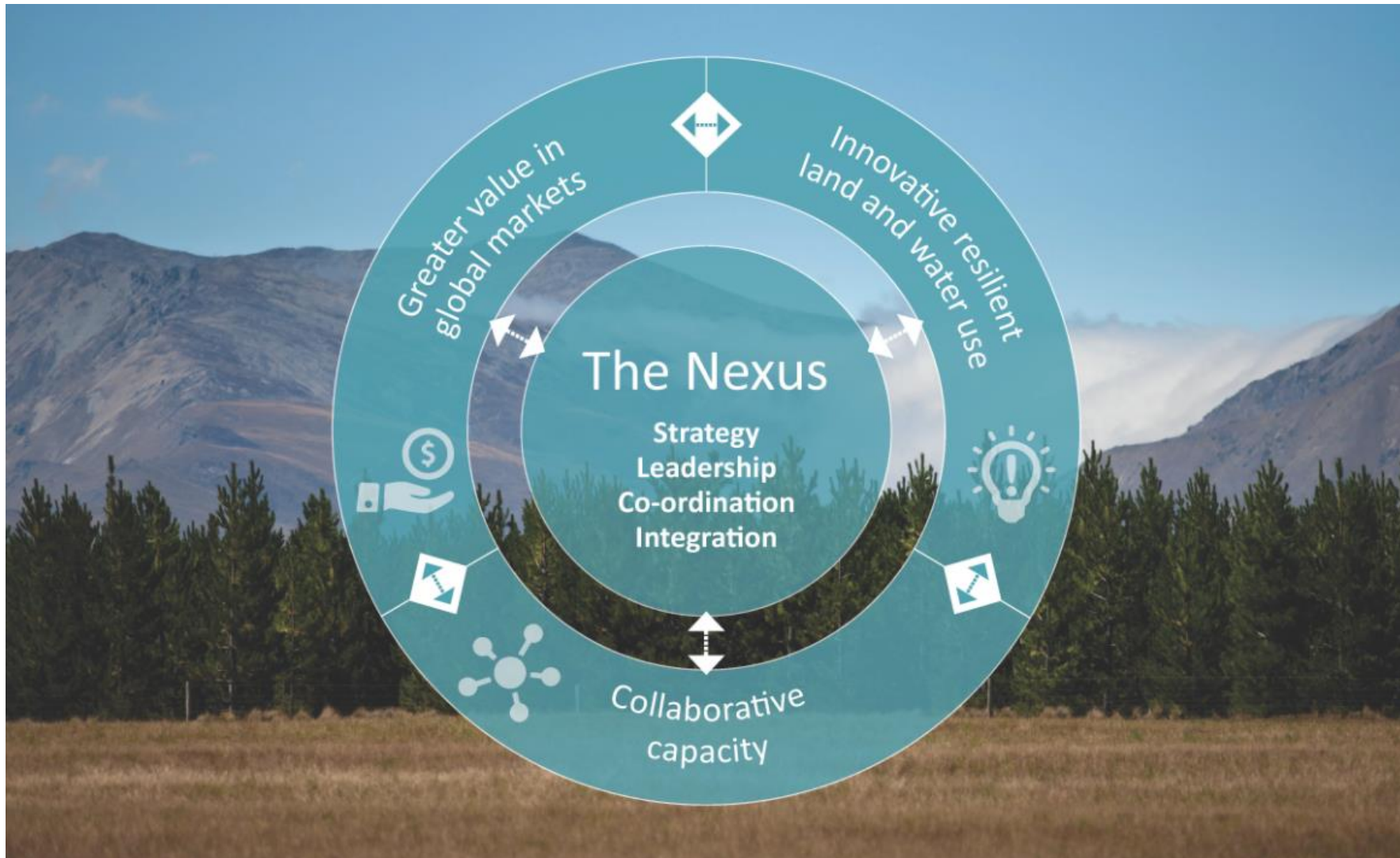
- Not sure about External
- Cultural may be focused on Māori
- Working across several dimensions on several projects

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)

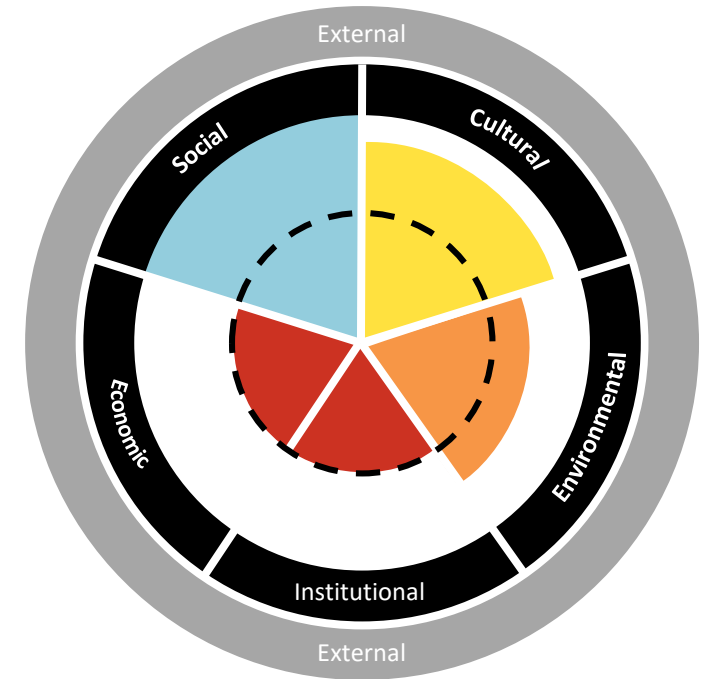
- RRC entrepreneurship → Next Generation, P21, Future farming
- RRC Māori land → land use and forestry projects

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

OUR LAND
AND WATER

Toitū te Whenua,
Tōiora te Wai

Questions

