

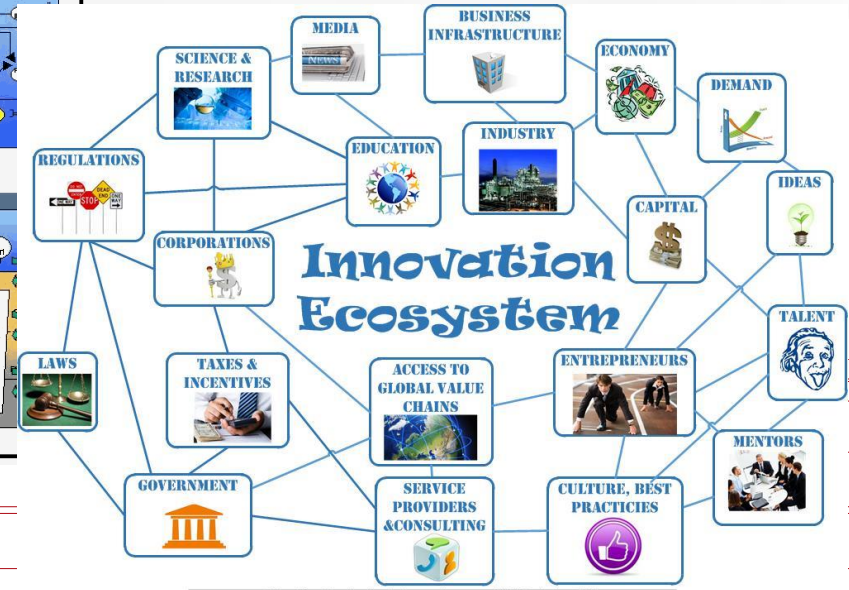
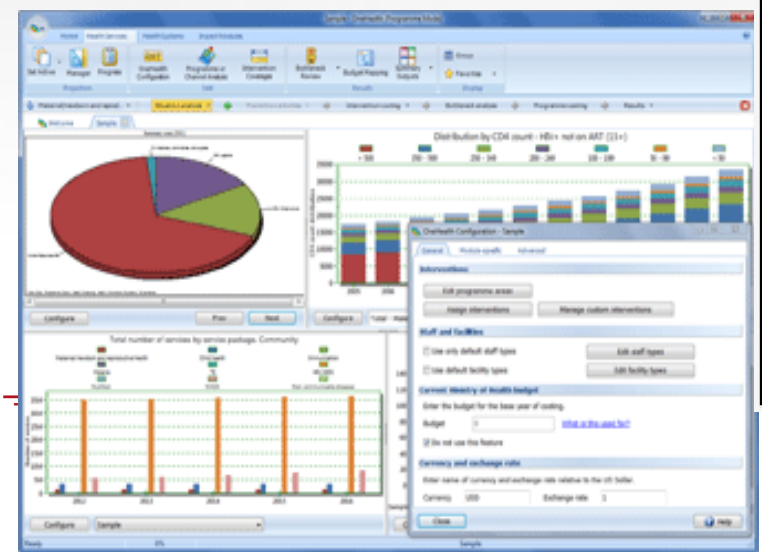
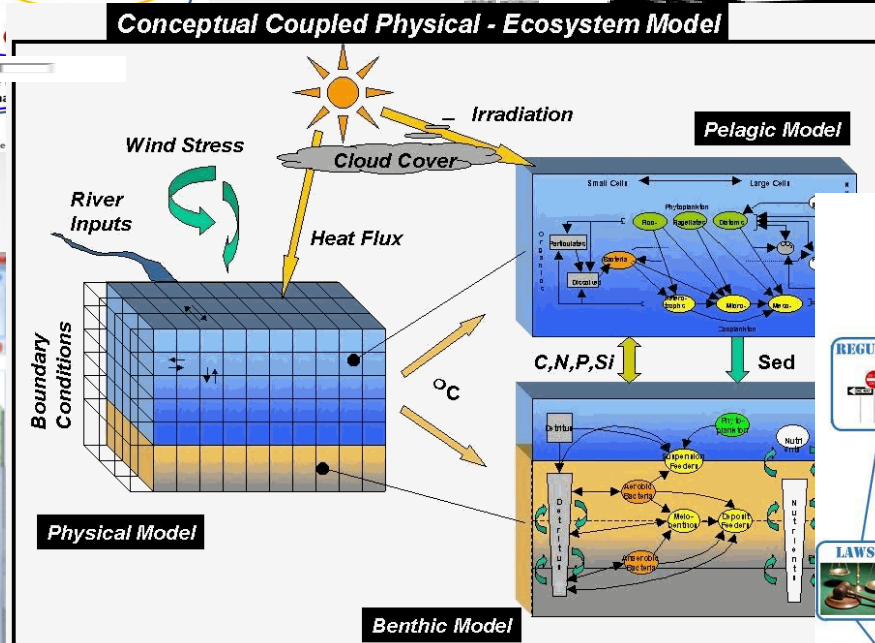
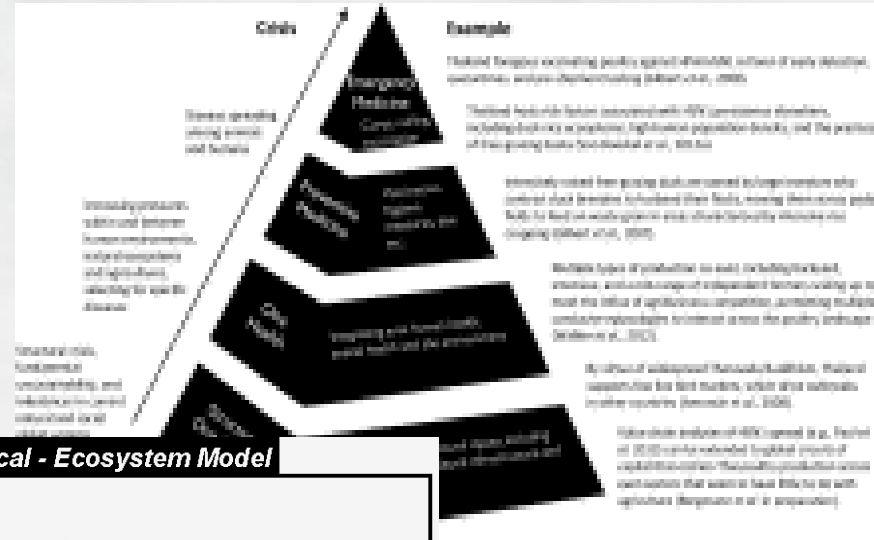
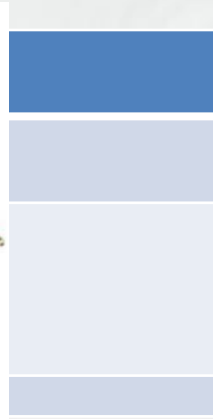
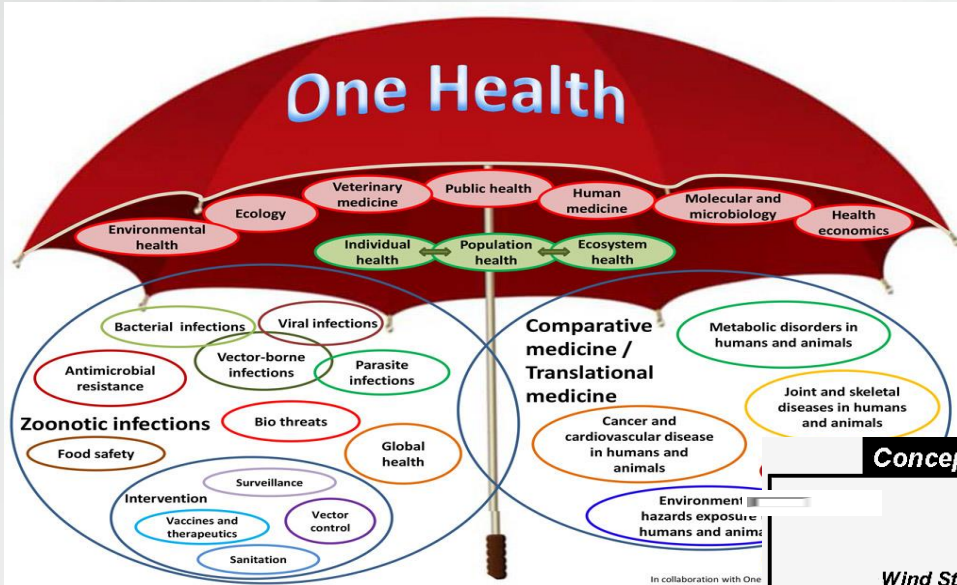


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New Zealand's Māori Centre of Research Excellence

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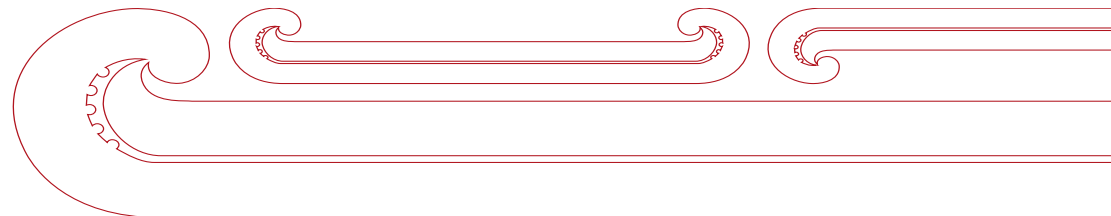
Complex?





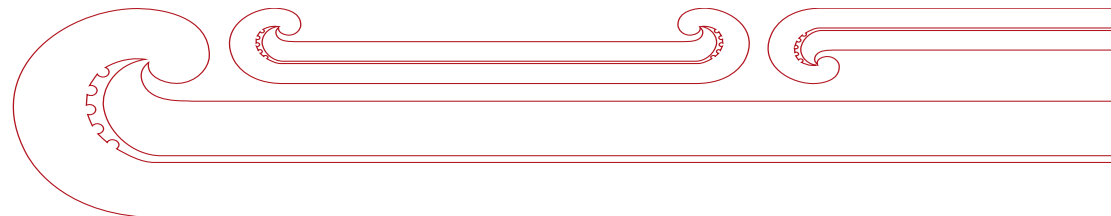
Health

- WHO
- Ottawa Charter
- Bangkok Charter for Health Promotion
- Te Wheke
- Whare Tapa Wha
- Te Pae Mahutonga



...and environments?

Life principle, life force, vital essence, special nature, a material symbol of a life principle, source of emotions – the essential quality and vitality of a being or entity. Also used for a physical object, individual, ecosystem or social group in which this essence is located.

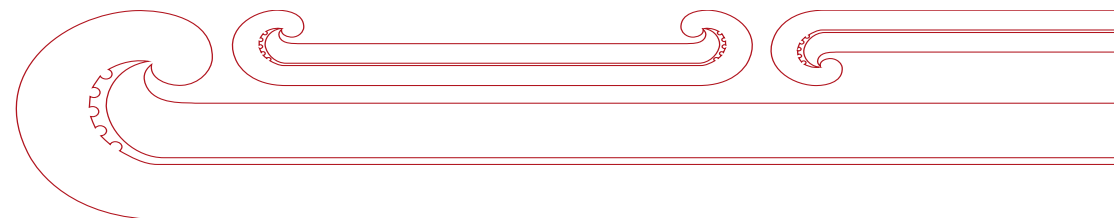


Approaches

Mauri; framework, indicators

CHI – UCHI

Cultural Flows

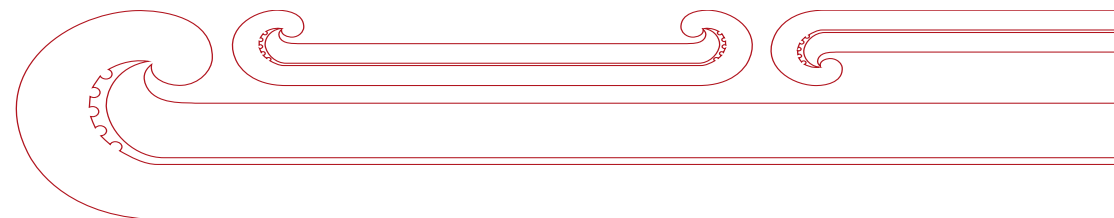


A Maori ecosystem

Ki uta ki tai

Tangata whenua

...mauri, wairua, whanau, kaitiakitanga....



Living with complexity

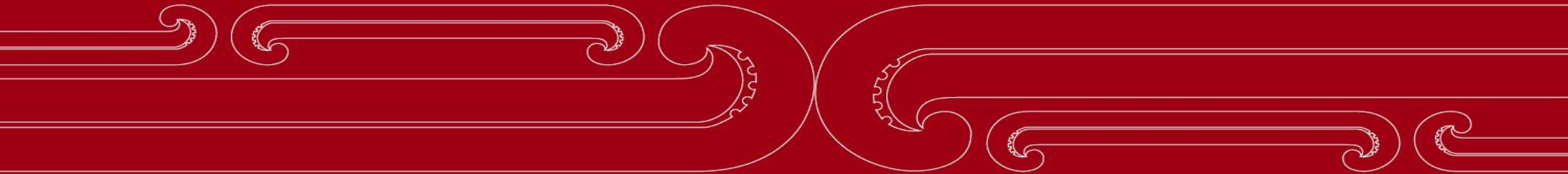


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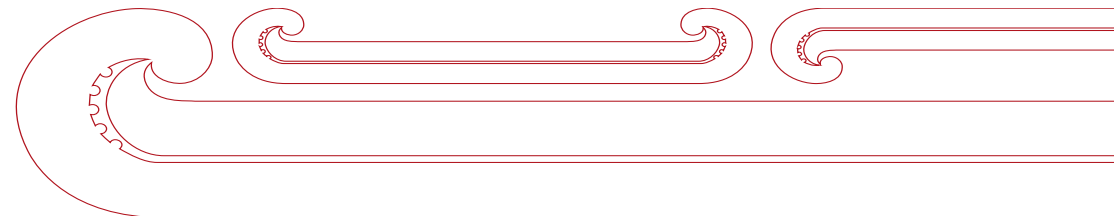
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TRANSFORMATION THROUGH RESEARCH EXCELLENCE

The research

- Action research cycles
- Methods vary from site to site; interviews, monitoring and evaluation of initiatives.
- Key outcome: provide sustainable solutions (cultural, economic, social and environmental) for the benefit of the numerous stakeholders, their whānau and the wider community.



Mauri and wellbeing



Cultural monitoring, Te Uri o Hau, Kaipara

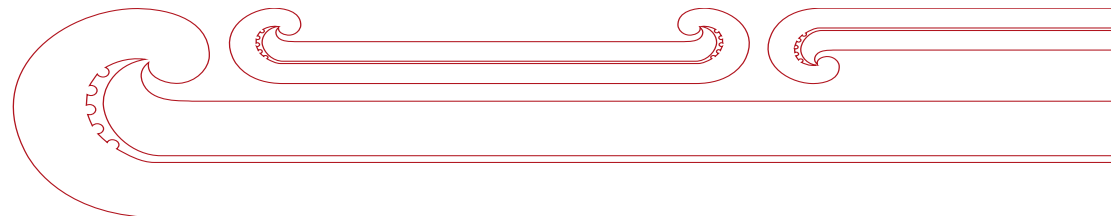


Table. Links between values, objectives, monitoring, and actions to sustain or enhance the mauri

Values	Objectives	Performance measures/tools	Management variables (examples)
<p>Kaitiakitanga Mauri Mahinga kai</p>	<p>Restore the mauri of freshwater to a standard</p> <p>Sustain/enhance cultural resources, mahinga kai, taonga spp.</p> <p>Define standards/limits/above bottom lines</p> <p><i>to support cultural values, life supporting capacity, ecological integrity, and ensure human wellbeing</i></p>	<p>Monitoring such as CHI and mauri assessment – identify change/trends in the state or mauri, or other indicators e.g. taonga spp.</p> <p>Condition of cultural resources, taonga spp., mahinga kai</p>	<p>Minimum flows</p> <p>Catchment management, Riparian, planting, landuse, erosion,</p> <p>Nutrient management/reduction</p> <p>Water clarity & sed</p> <p>Pathogens (e.g., E coli) Stock exclusion</p> <p>Connectivity</p> <p>Habitat extent and condition</p>

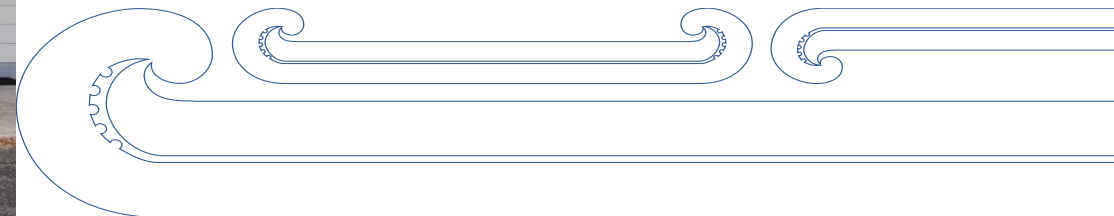
Māori iwi/hapū networks

- Iwi/hapū projects explore associations between environmental actions and health
- Wananga, hui – community engagement
- Kaupapa Maori Participatory Action Research
- Study sites: Te Hiku, Waitaki



Te Hiku o Te Ika: approach

- Post-settlement collective and individual Iwi in planning mode; aspirations, knowledge, experience, new structures informing strategies
- Social, cultural and economic factors alongside environment
- Te Hiku Taiao research symposium - Researchers, iwi, community, funders; understanding, potential collaborations



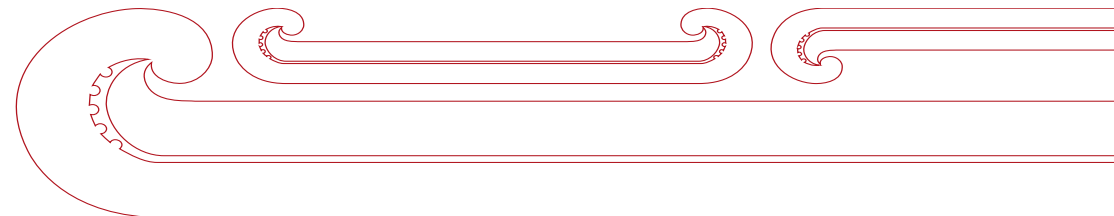
Te Hiku o Te Ika initiatives: linked projects

- Tāngonge and Dune lake restorations, Climate change, Warawara pest control
- Noho taiao; reclaiming local learning spaces and places
 - NPM Pūtaiao seeding grant
 - NPM summer studentship
- Integrated support and action



Waitaki initiatives

- Whanau based approaches
- Waitaki water allocation
- Multiple new projects



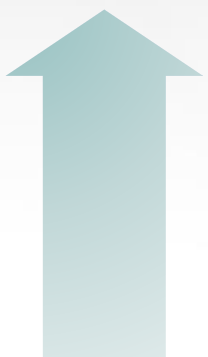
Initial explorations with whanau groups in the Waitaki

Cultural/environmental outcomes		Research into practice		Matauranga generation & use	
Whanau initiatives across the catchment			Enhance Whanau kaitiaki capacity		
Reintroduce weka ✓			Replant riparian margins & sensitive areas (started with Takiroa) ✓		
Restore Takiroa as a significant cultural landscape ✓			Strategic partnerships (eg irrigation company seeking international accreditation) ✓		
Whanau engagement in monitoring			Increase visible presence of Ngai Tahu whanau across the landscape (seeking new nohonanga) ✓		
<i>Eel study, Ahuriri WCO, Mataitai</i>					
Innovate					
Resource use innovation		New ideas		Share innovations with Ngai Tahu whanui	Explore commercial options (e.g using mahinga kai allocation)
Enable Our Whanau		Support Sustainable Infrastructure		Pathways to financial Independence	
Skill growth and leadership ✓	Build capacity ✓	improved resource use efficiency ✓	Assisted negotiation outcomes ✓	Assisted whanau to secure funding to enable asset holding (mahinga kai water allocation). ✓	
Support whanau engagement ✓	Recognize good practice ✓			Resource consent for the mahinga kai allocation still required	
Promote intergenerational learning ✓					

Quality outcomes enhance Whanau wellbeing



Creative initiatives and improved resource use



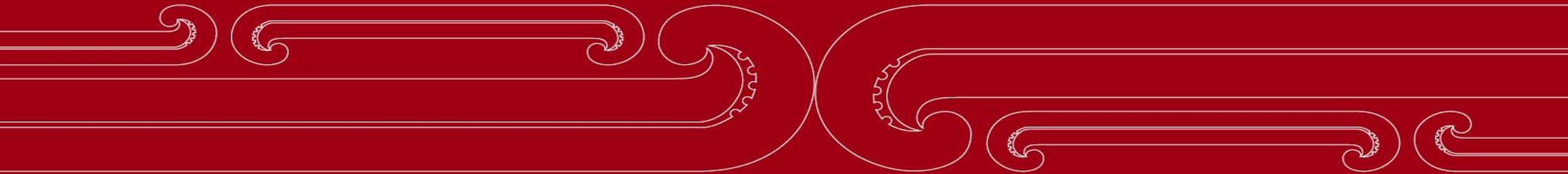
Whanau engagement with the catchment

Develop a “reference condition” of Ngai Tahu wellbeing in the Waitaki



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