Whakarongotai a te moana Whakarongotai a te wā

An iwi-developed fresh approach to monitoring mana whenua values

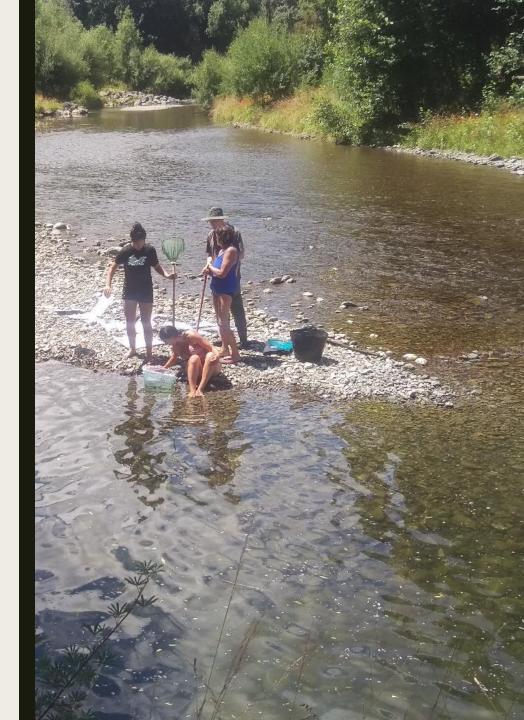
Mahina-a-rangi Baker Te Kōnae Ltd.



Ko wai au? Who am I to do this work?

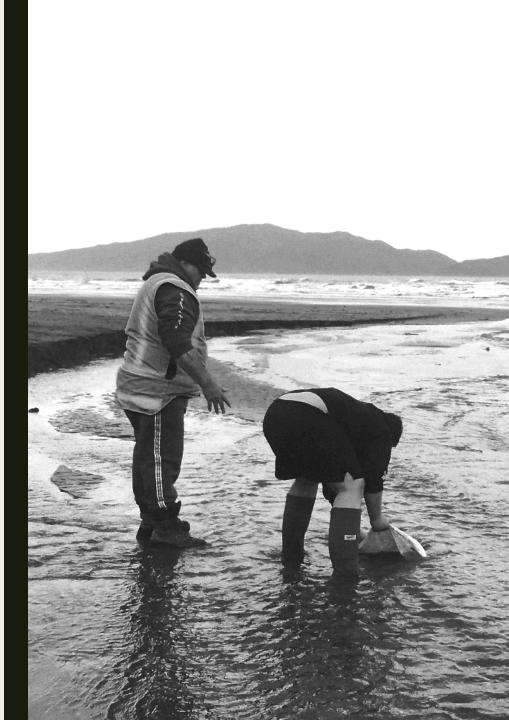
The need for a fresh approach to monitoring of mana whenua values

- National Policy Statement on Freshwater Management
 - National Objectives Framework and water quality limit-setting process
 - 'Te Mana o te Wai' concept
 - Identification of mahinga kai as a national value
- RMA Resource Consent Framework
 - Māori customary use and mahinga kai included in regional plans



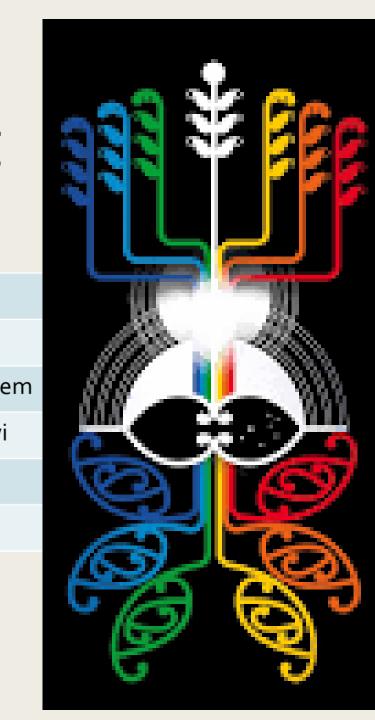
What are the attributes of mahinga kai?

- Ability to catch a range of plentiful species for long-term harvest in certain places
- Safety to harvest and eat
- Providing food for the people
- Transfer of knowledge on catching, preparing and storing
- Ability to practice tikanga Māori (Māori customs)
- 'Wai tapu' identified as an additional value



Hua Parakore – a kaupapa Māori framework for foodscape planning (Hutchings et.al., 2011)

MAURI	Healthy energy flow and life force of catchment system
TE AO TŪROA	Natural rhythms and patterns of the environment
MĀRAMATANGA	Quality knowledge and technology used to manage the syste
MANA	The social security of the community and authority of the iwi
WAIRUA	The spiritual and emotional well-being of the people
WHAKAPAPA	The identity of the people and their connection to the water



Whakarongotai Index of Catchment Health

Whakarongotai a te moana Whakarongotai a te wā

As you listen to the tides of the sea So should you listen to the tides of the time

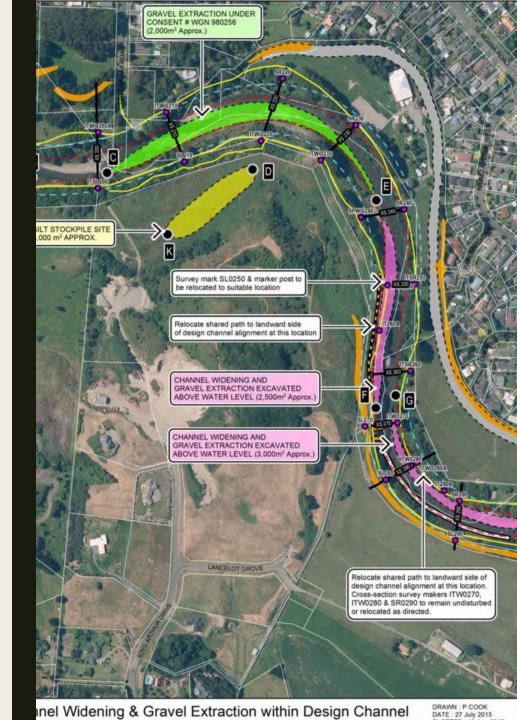
In 2014 we conducted a study to identify 73 different attributes of catchment health according to the Hua Parakore Framework.



Prioritising attributes for monitoring

How do we prioritise which attributes for monitoring across the following range of different planning contexts?

- Input into the Environmental Monitoring Plan for the developing of a Global Flood Protection consent
- Post-construction monitoring for 18km
 Expressway project
- Piloting a monitoring framework for Greater Wellington Regional Council





Methods for prioritisation of attributes

- I. Use an influence matrix
- 2. Designate iwi experts to decide

Mahina-a-rangi Baker 🛛 🖾

Draw Page Layout Formulas Data Review View Q Tell me what you want to do

Methods for prioritisation of attributes

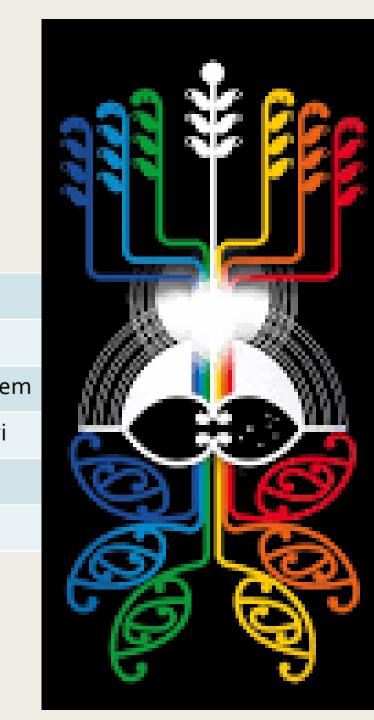
I. Influence matrix (Vester in Cole et.al 2007)

- Rank each attribute according to the influence that they have over each at the state of the state over each attribute according to the state over the stat
- Apply algorithms to influence matrix to categorise attributes as either: active, critical, buffer, or passive attributes
- Select attributes based on the degree of influence they exert or are influenced by others.
- 2. Iwi identify single or multiple experts to prioritise attributes

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Hua Parakore – a kaupapa Māori framework for foodscape planning

MAURI	Healthy energy flow and life force of catchment system
TE AO TŪROA	Natural rhythms and patterns of the environment
MĀRAMATANGA	Quality knowledge and technology used to manage the syste
MANA	The social security of the community and authority of the iwi
WAIRUA	The spiritual and emotional well-being of the people
WHAKAPAPA	The identity of the people and their connection to the water



Mauri: Healthy energy flow and life force of the catchment



Attributes

- Heavy metal pollution
- Abundance of mahinga kai

- Watercress survey for presence, abundance and metal contamination
- Pre- post- construction fine sediment assessment
- Relative abundance fish surveys as per NIWA Protocols 2014

Te Ao Tūroa: Natural rhythms and patterns of the environment



Attributes

- Efficiency of sourcing mahinga kai
- Food is available all seasons

- Iwi survey:
 - Catch per unit effort

Māramatanga: Quality knowledge and technology used to manage the system

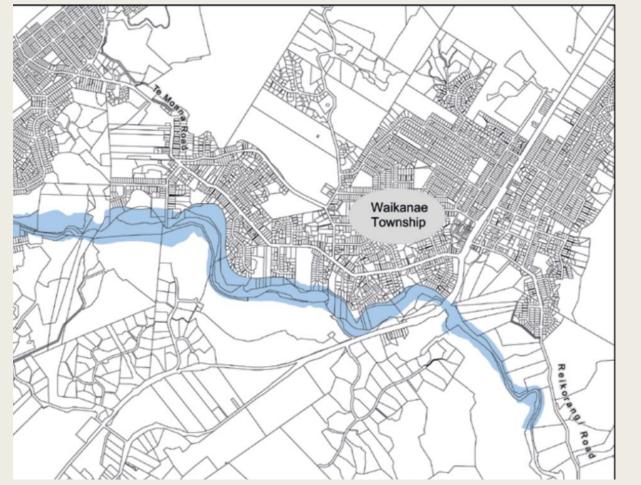


Attributes

- That decision-making is informed by iwi monitoring.
- All generations can identify mahinga kai species

- Develop adaptive management regime that uses iwi generated data
- Iwi survey
 - Testing identification of species

Mana: The social security of the people and the authority of the iwi



Attributes

- The iwi have authority over resource use
- The scale of development

- Tiriti Audit Framework for local government
- Mapping developing on floodplain

Wairua: The spiritual and emotional well-being of the people



Attributes

- The environment is calm, safe and conflict-free
- The self-esteem of the people

- Iwi Survey:
 - Environmental Distress Scale (EDS) Survey (Higginbotham et.al. 2007)

Whakapapa: The identity of the people and their connection to water

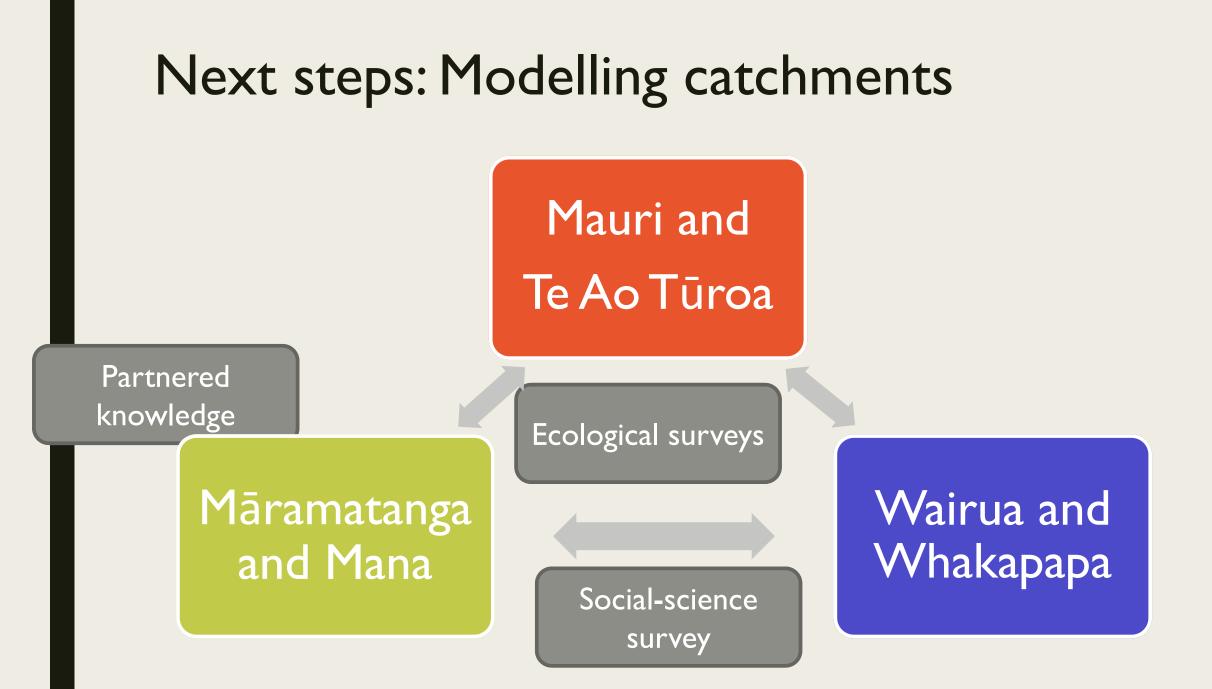


Attributes

- All people are connected to the environment
- All generations enjoy harvesting and consuming mahinga kai

Methods

Iwi Survey



Key learnings

- A mātauranga Māori (Māori knowledge) approach is helpful to identify the range of integrated values that comprise socio-ecological systems which all require consideration, analysis and management.
- Framing Māori values and interests as merely 'cultural' is inaccurate, instead a transdisciplinarian approach is required
- It isn't just Māori who have a need to have a wider range of values considered, analysed and managed
- Current NPS ecosystem health attributes are often not systemically critical
- Social and economic attributes and methods for monitoring not well-defined
- System dynamics is a well established western scientific discipline which has a lot of crossover with mātauranga Māori methods of system analysis

Key learnings

- The use of frameworks such as Hua Parakore can only be applied by Māori for Māori
- The protection of data sovereignty is crucial for the success of the framework
- Resourcing the heuristic development of the framework required a leap of faith from Councils, consent holders and Māori organisations.
- Implementation of the framework has meant that iwi monitors who previously were passively involved in monitoring are now recognised for their expertise.
- White supremacist views still exist about Māori knowledge, scientists and experts.
- There seems to be a gap between the planning world, and those Māori who have necessary technical expertise and solutions to planning problems.

Whakarongotai a te moana Whakarongotai a te wā

An iwi-developed fresh approach to monitoring mana whenua values

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