

Matauranga Māori

TLG presentation to Community Stakeholder Group
Healthy Rivers CSG6

Nā lo te waiora

He au aio

He au aio

He ia aio no te waipuna ariki

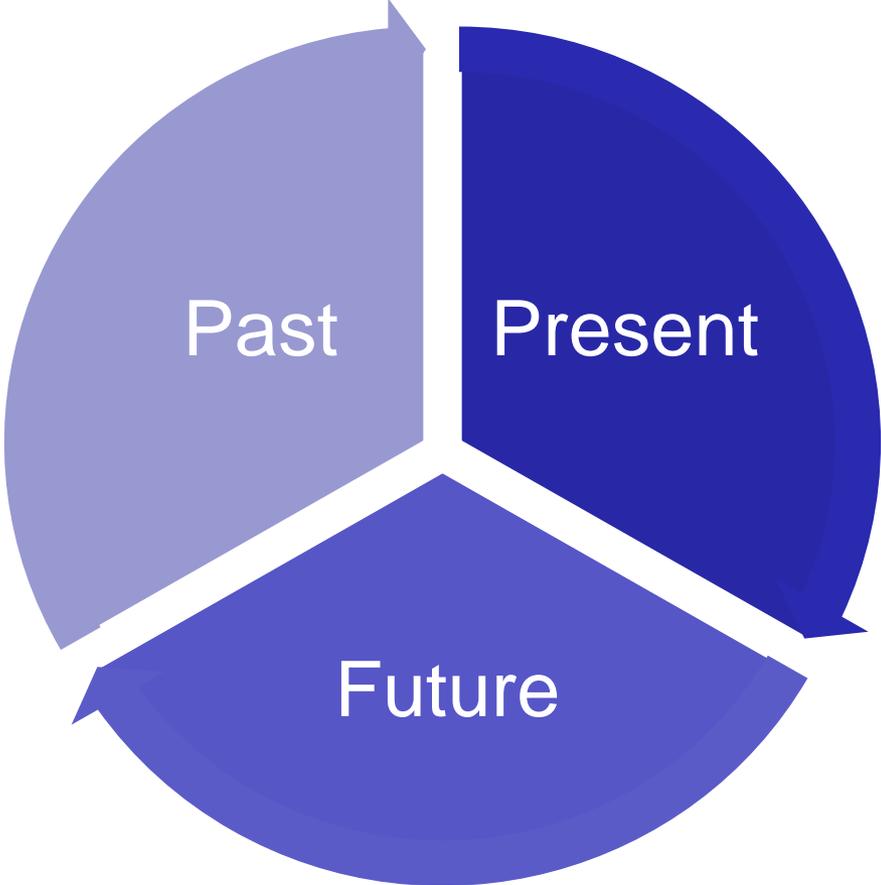
He wai pū, he waipuna, he waiāriki

Nā lo te waiora

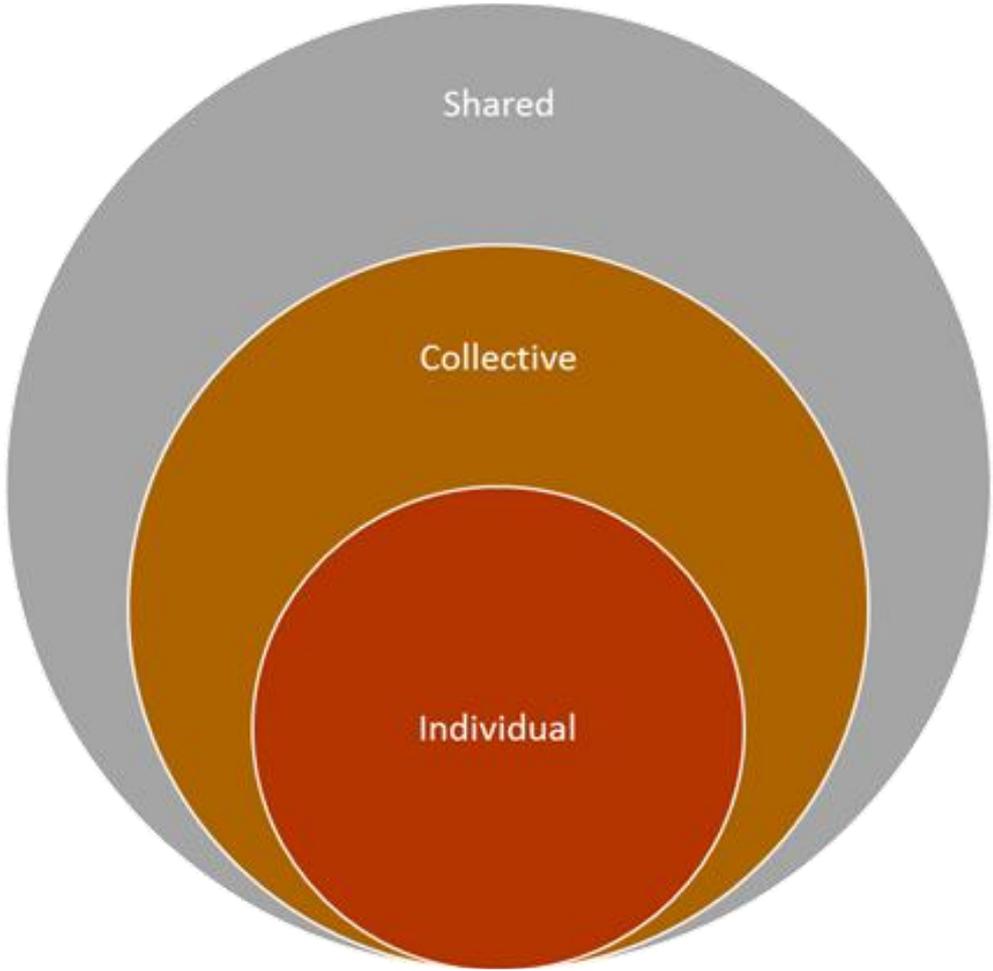
SESSION 1

- Matauranga Māori
- Matauranga iwi / hapu / whanau
- Models and frameworks
- Work undertaken nationally and locally
- Work underway
- Preliminary approaches
- Work being commissioned

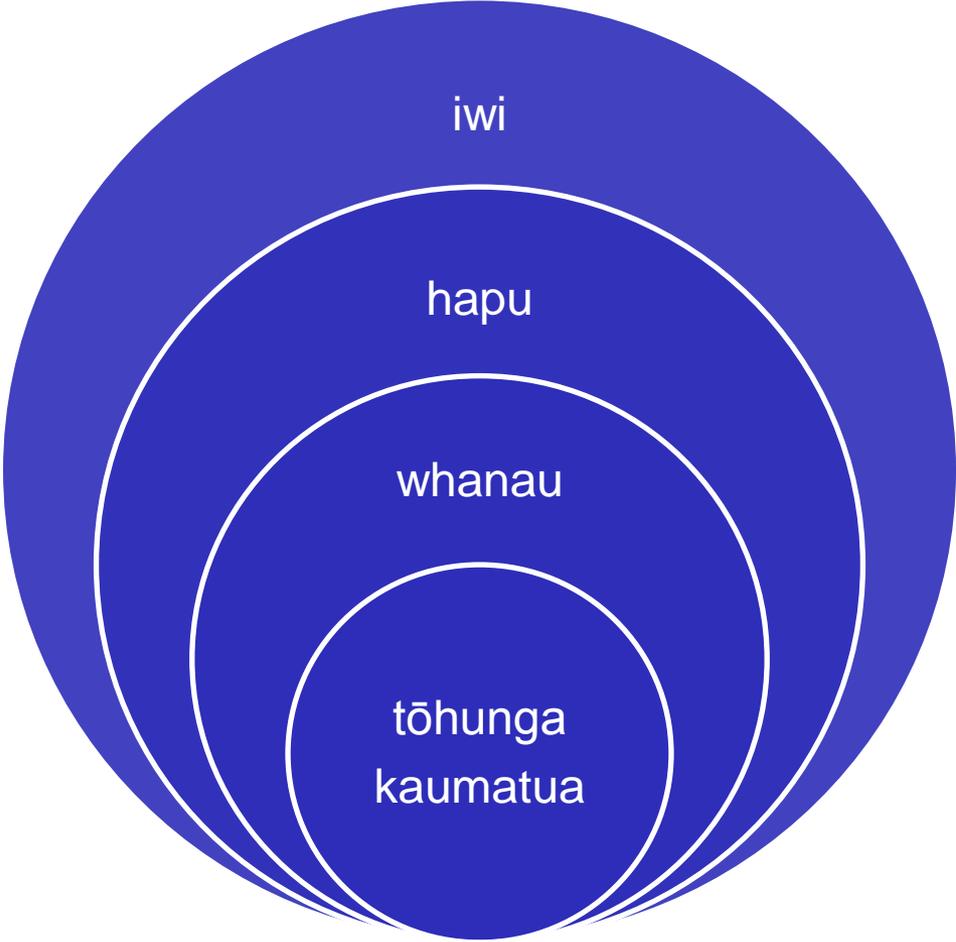
Matauranga Māori



Matauranga Māori



Matauranga Māori



Matauranga Māori

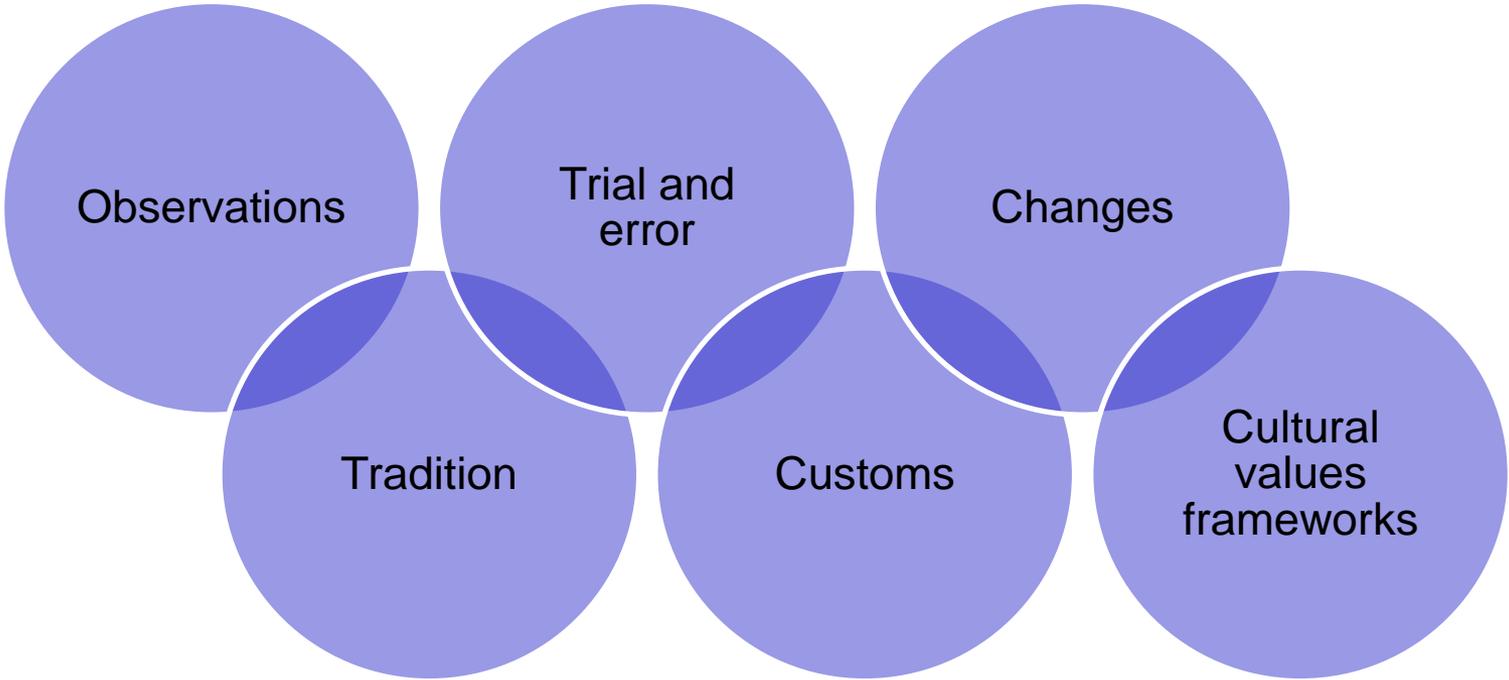
*Nā te kune te pupuke
Nā te pupuke te hihiri
Nā te hihiri te mahara
Nā te mahara te hinengaro
Nā te hinengaro te manako
Ka hua te wānanga.*

- *From the conception the increase
From the increase the thought
From the thought the remembrance
From the remembrance the consciousness
From the consciousness the desire.
Knowledge became fruitful.*

Matauranga Māori

- Matauranga Maori is a term that describes the body of knowledge originating from Māori ancestors, including the Māori world view and perspectives, Māori creativity and cultural practices (Te Aka Maori-English).
- Matauranga Maori embraces individual, local and collective knowledge, Maori values, cultural expressions, perspectives, observations, being traditional, historical and contemporary.

Matauranga Māori



Questions

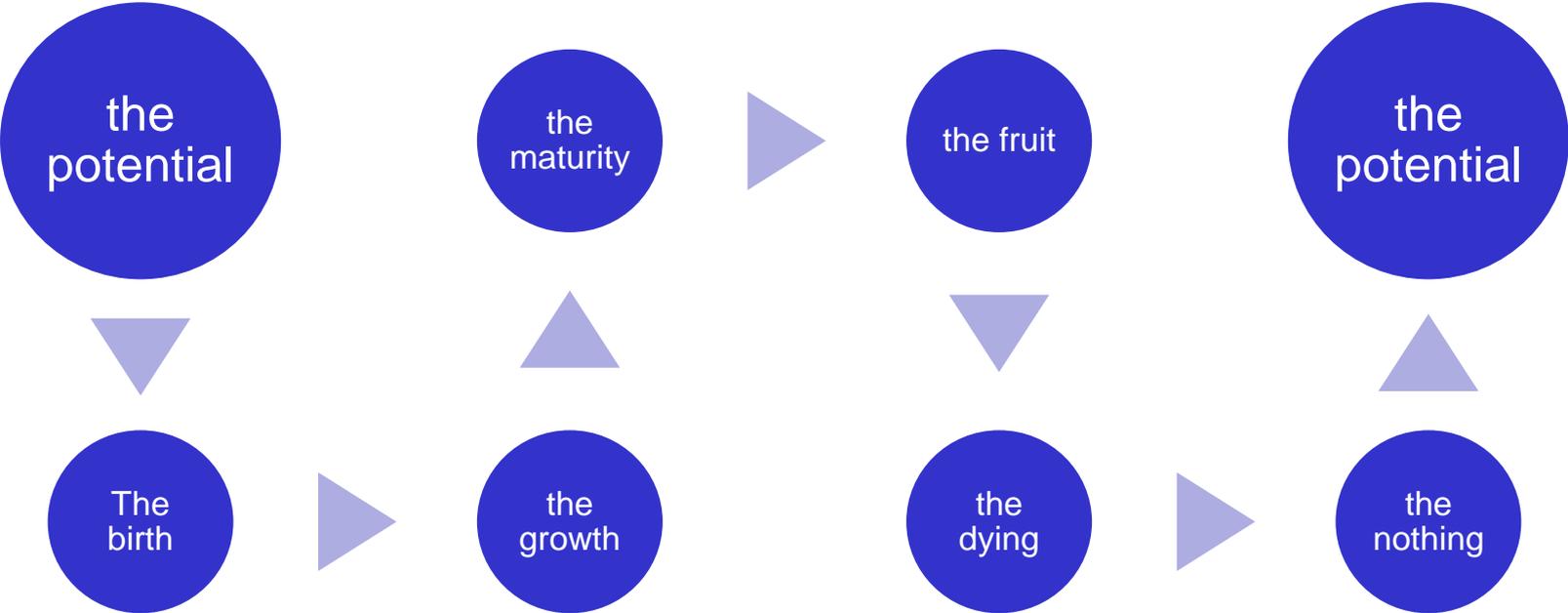
Source of Matauranga Māori Frameworks



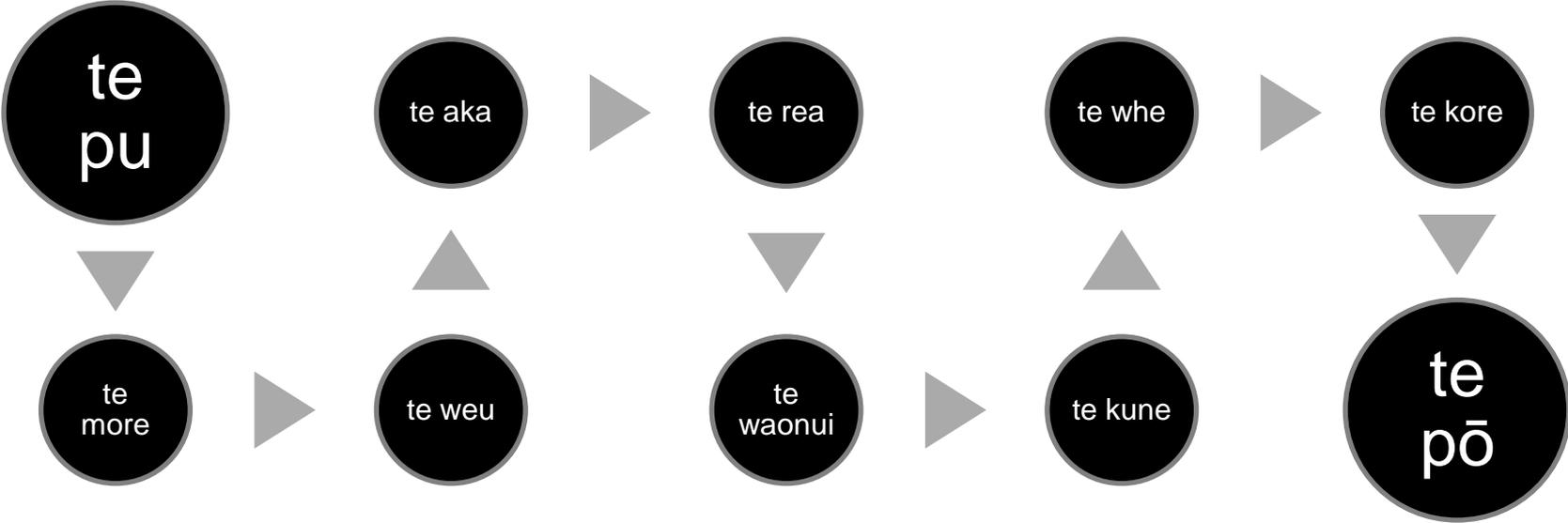
Source of Matauranga Maori Frameworks



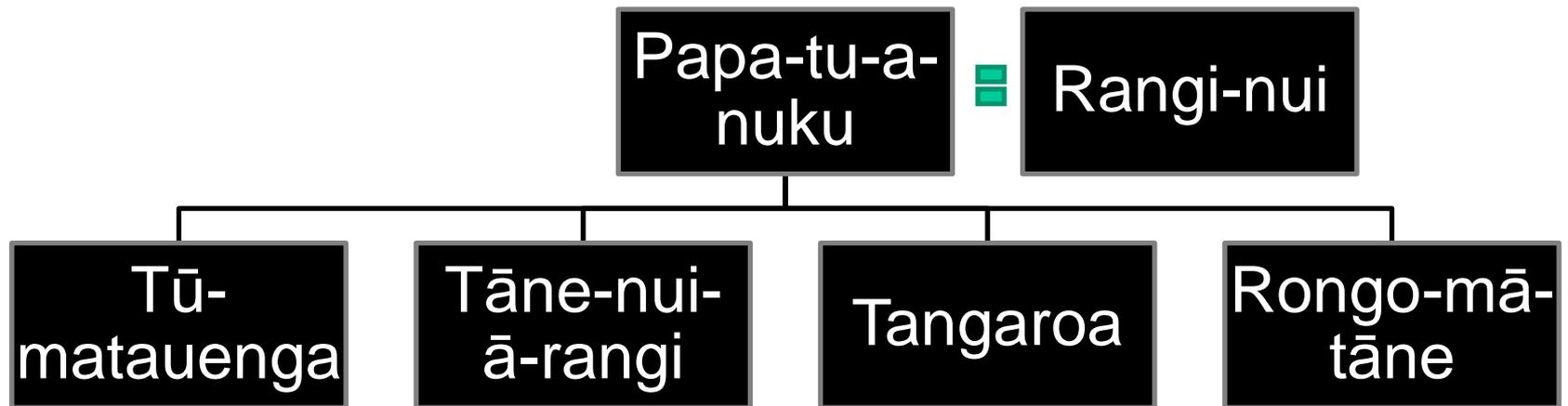
Source of Matauranga Maori Frameworks



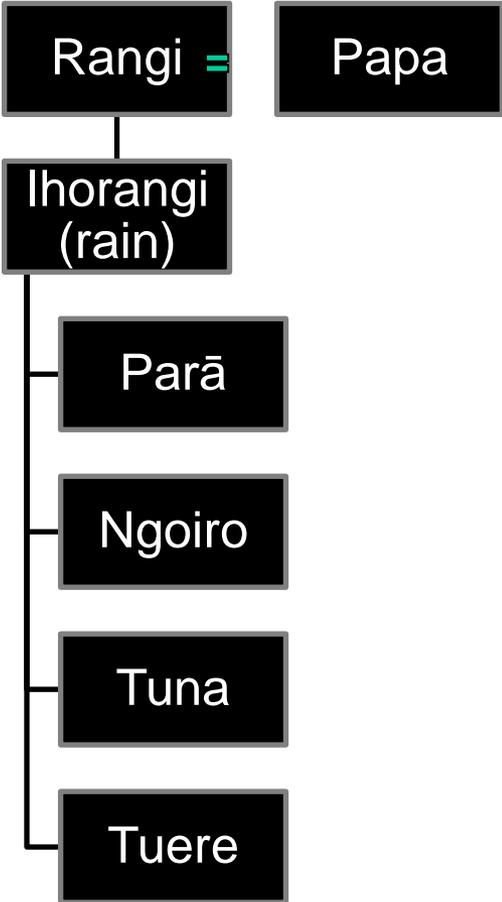
Source of Maturanga Maori Frameworks



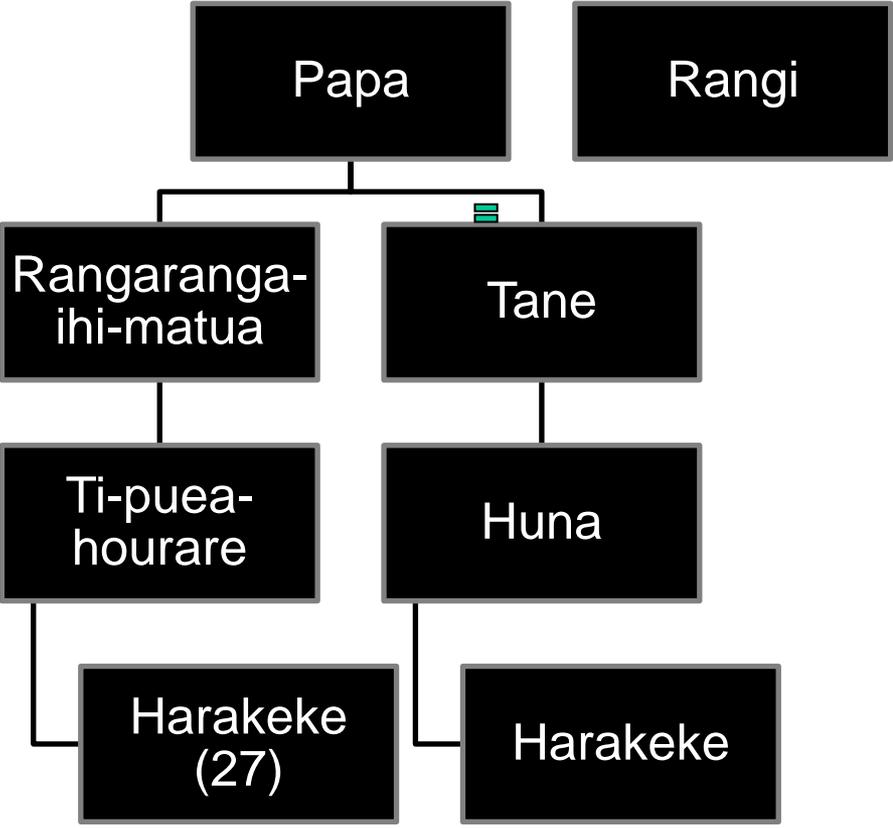
Source of Matauranga Maori Frameworks



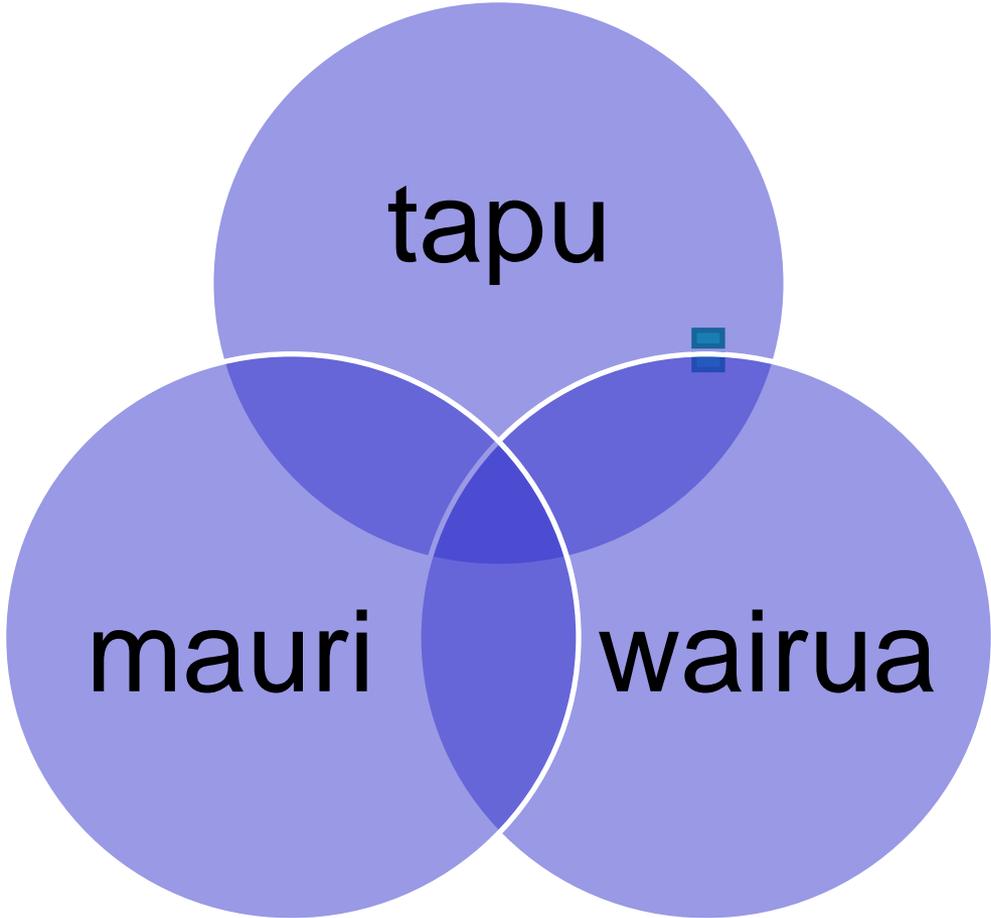
Source of Matauranga Maori Frameworks



Source of Matauranga Maori Frameworks



Source of Matauranga Maori Frameworks

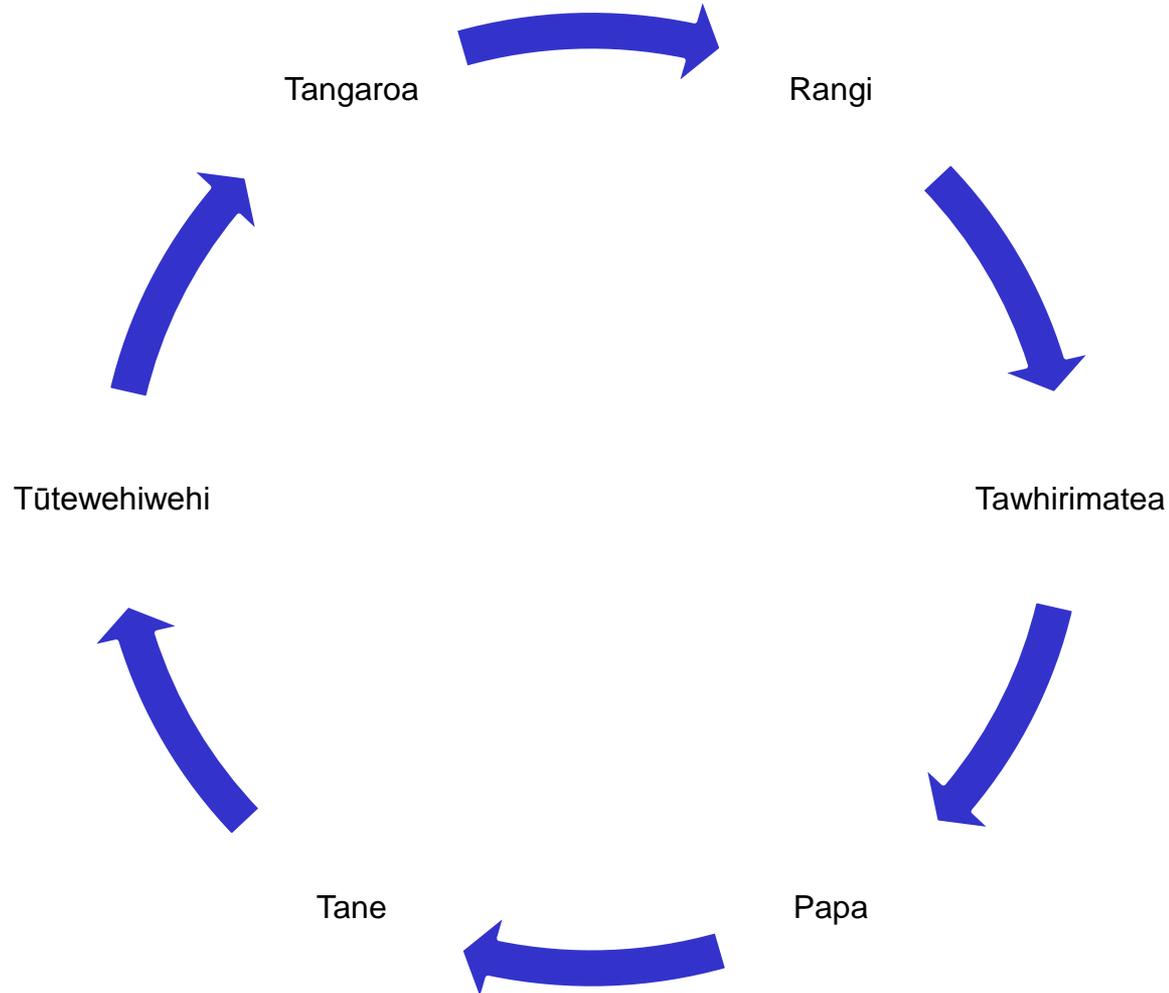


Questions

Cornerstone water concepts

- Mauri – life essence
- Tapu – divine force
- Whakapapa – genealogical relationship
- Wairua – consciousness
- Hononga – connections
- Tikanga – values, principles and rules

Whakapapa (water cycle)



Cornerstone river concepts

- Te Mauri
- Te Ahua
- Te Rere – tere, mangere, rererua,
- Te rongoa
- Te timu me te pari
- Nga tohu – taniwha, tipua
- Te koiora
- Ngā rawa (resources)

He wai – he awa ranei

He Wai

- Source of life
 - Sustenance
 - cleaning
 - Cooking
 - Preparing
 - gardens
- Cleansing

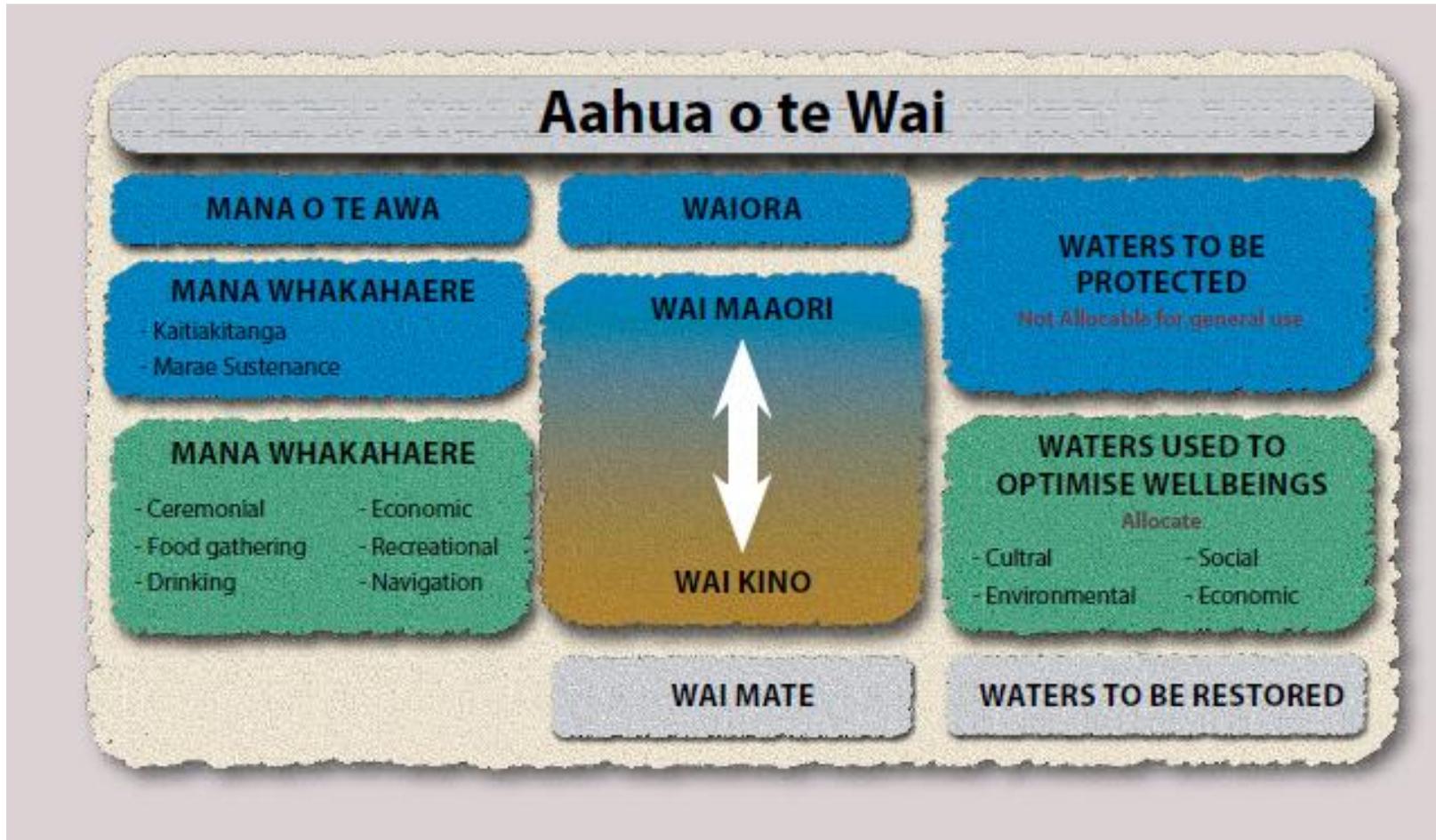
He Awa

- Source of life
 - Food
 - Resources
- Transport
 - Moving from place to place
- Source of identity
- Sense of place
- Source of knowledge

Current models and frameworks

- Tapu and noa framework
- Mana Atua, Mana whenua, Mana Tangata
- Mauri model
- Cultural health index
- Whakapapa
- Function and significance
- Ecosystem (knowledge networks)
- 1840 baseline

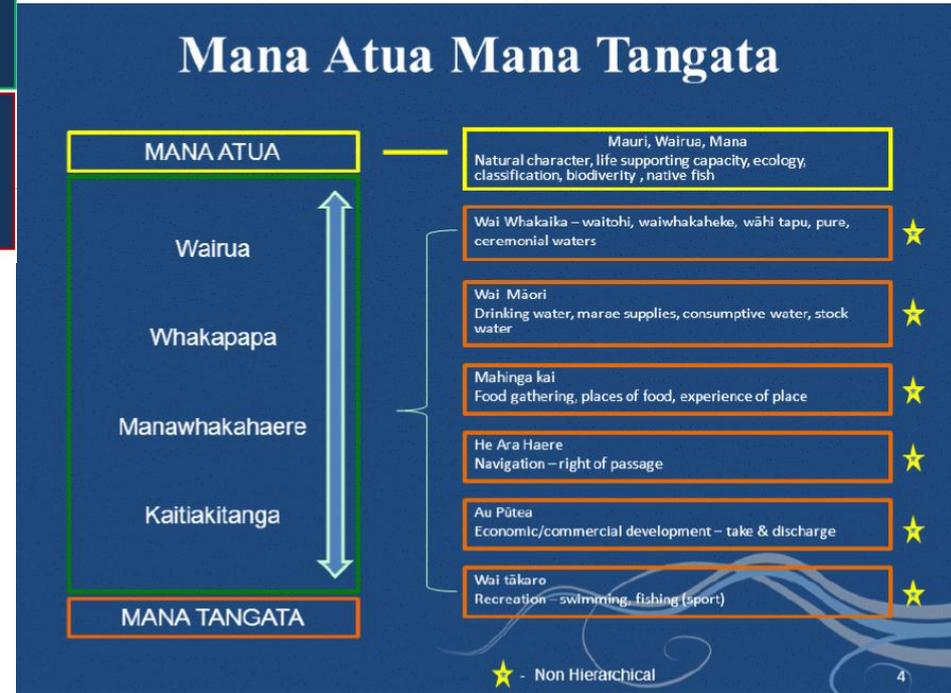
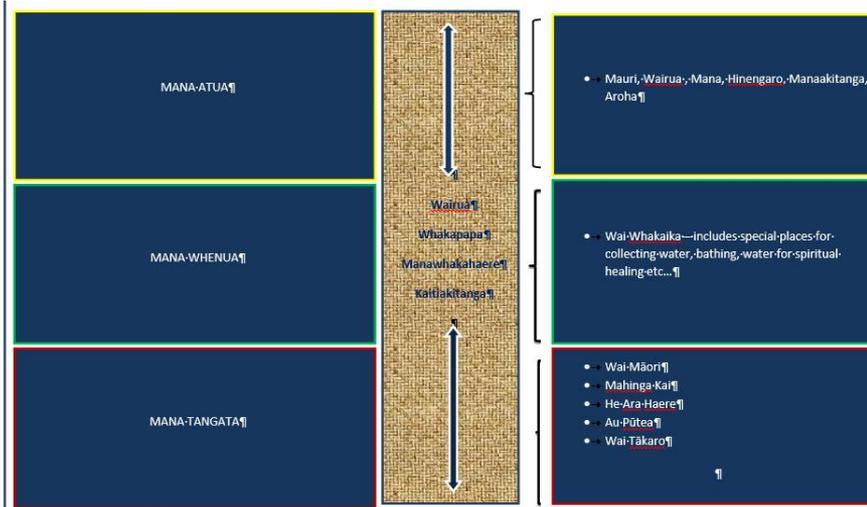
Tapu and noa



Tapu and noa

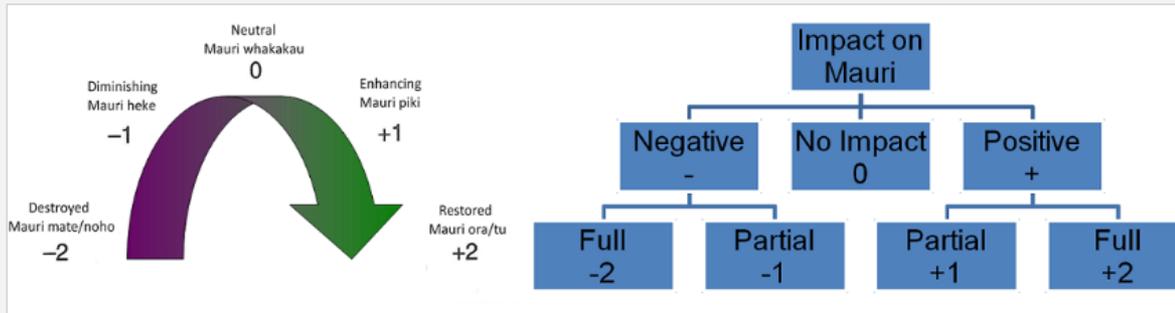
Waiora	
Wai puna	
Wai whakaika	
Wai Māori	
Wai kino	
Wai mate	Wai tai

Mana Atua, Mana Whenua, Mana Tangata



Mauri model - Mauriometer

Data Entry - Catchment Assessment

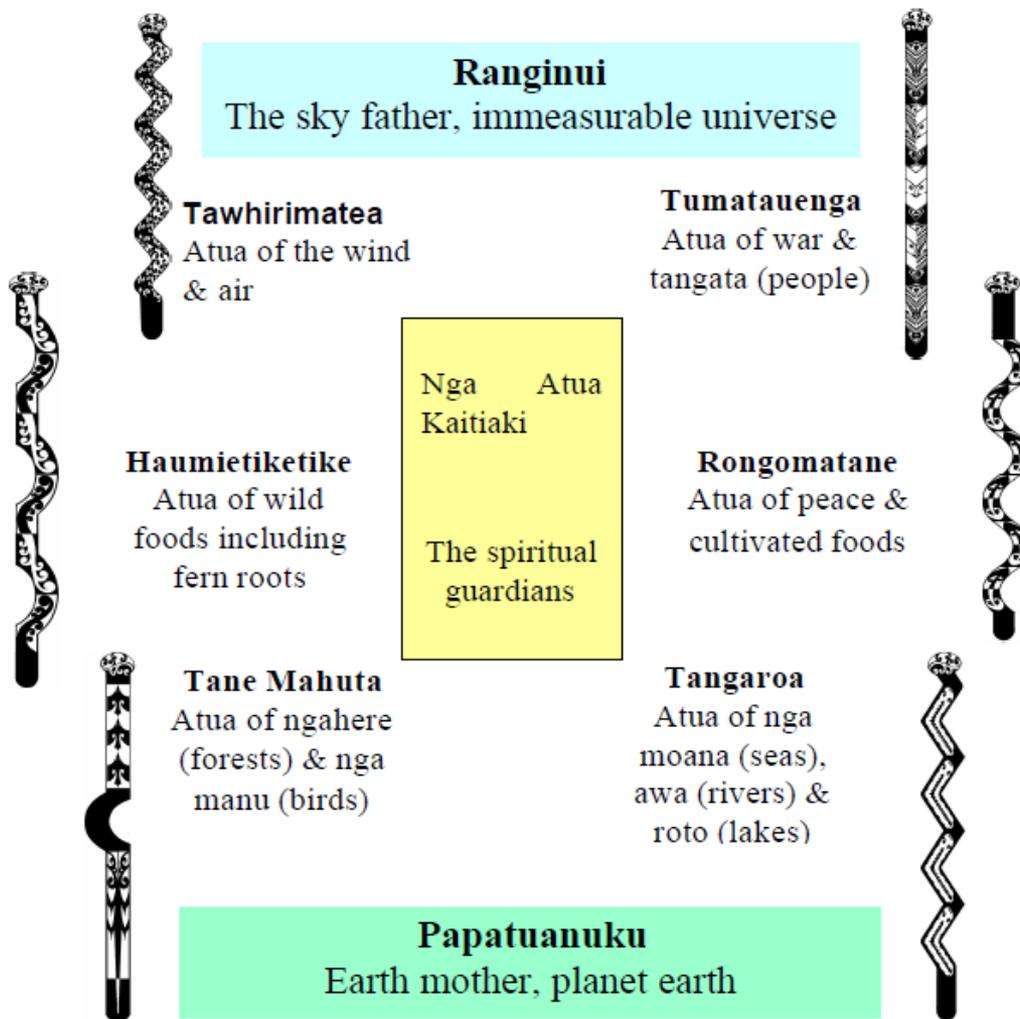


Dimension	Indicators	Status Quo (As-Is)	Enhanced
Ecosystem	<input type="text"/> <input checked="" type="checkbox"/>	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2
Ecosystem	<input type="text"/> <input checked="" type="checkbox"/>	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2
Ecosystem	<input type="text"/> <input checked="" type="checkbox"/>	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2
Cultural	<input type="text"/> <input checked="" type="checkbox"/>	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2
Cultural	<input type="text"/> <input checked="" type="checkbox"/>	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2
Cultural	<input type="text"/> <input checked="" type="checkbox"/>	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2
Community	<input type="text"/> <input checked="" type="checkbox"/>	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2
Community	<input type="text"/> <input checked="" type="checkbox"/>	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2
Community	<input type="text"/> <input checked="" type="checkbox"/>	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2
Economic	<input type="text"/> <input checked="" type="checkbox"/>	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2
Economic	<input type="text"/> <input checked="" type="checkbox"/>	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2
Economic	<input type="text"/> <input checked="" type="checkbox"/>	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2	<input type="radio"/> -2 <input type="radio"/> -1 <input checked="" type="radio"/> 0 <input type="radio"/> +1 <input type="radio"/> +2

Cultural Health Index

- Western Science
 - Small organisms
 - Clarity
 - Turbidity
 - Temperature
 - Dissolved oxygen
 - In-stream habitat quality
 - Algae
- Matauranga Māori
 - Smell, Colour, feel
 - Clarity, Flow
 - Flora and fauna
 - Wai tapu
 - Access
 - Use of customary resources
 - Special characteristics
 - Physical change
 - Abundance
 - Mana

Whakapapa

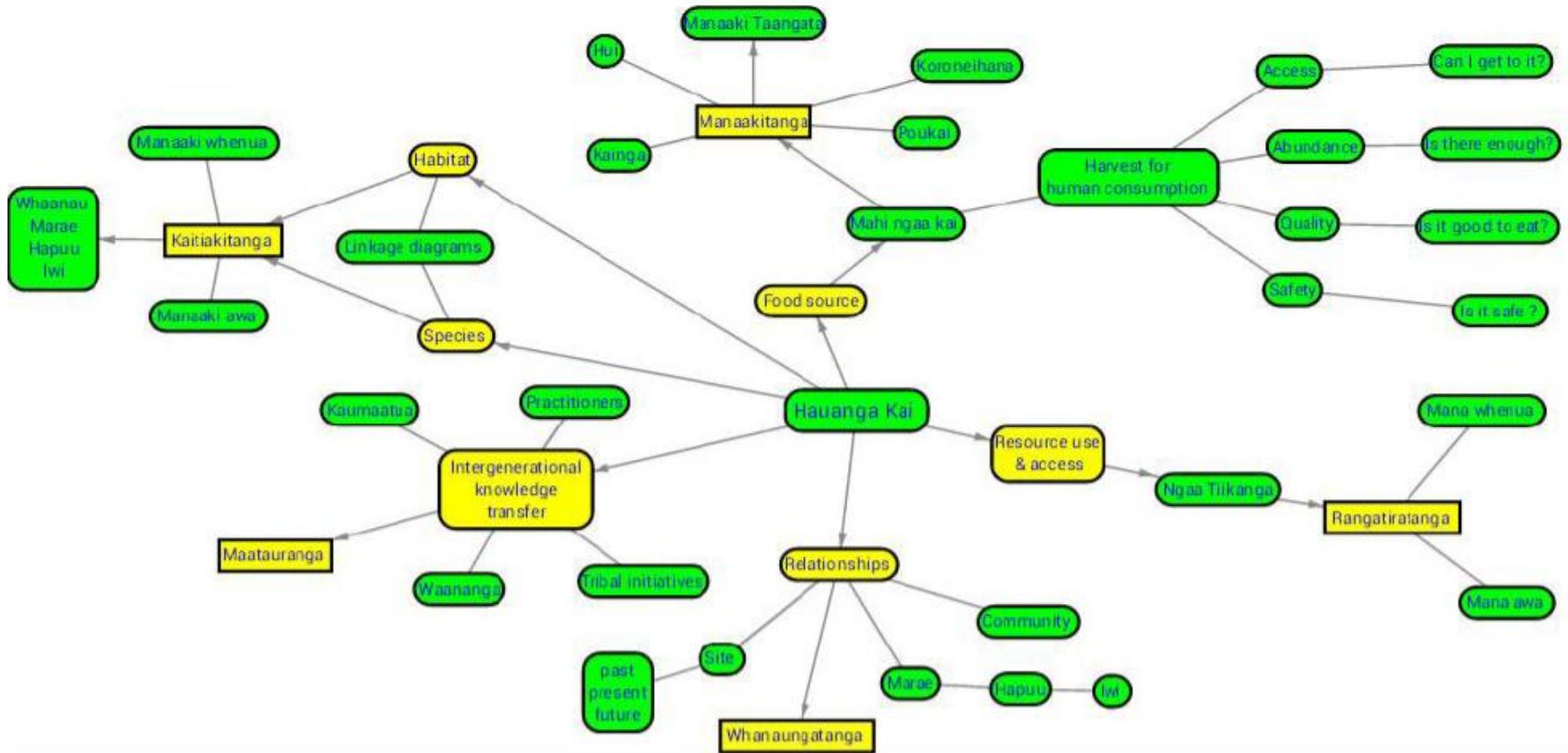


Atua (departmental gods) domain framework Source: Tiakina te Taiao, Dean Walker.

Function and Significance

- The name of the river
- Taniwha
- Settlement
- Special places and resources
- Special characteristics of the river

Knowledge networks



1840 baseline

- Historic baseline
- Compared to present day
- Often natural, pristine, abundant
- e.g. He Maimai aroha o Kīngi Tāwhaio

Work being undertaken

- Cultural Health Index
- Māori environmental performance indicators
- Te Mauri Model
- Nga Atua Domain Framework
- WRISS
- Knowledge Networks for Waikato River Restoration
- Nga tohu o te wai – national project
- Tai Timu, Tai Pari Tai Ao -Waikato Iwi Environmental Management Plan
- Raukawa Environmental Management Plan
- Ngati Maniapoto

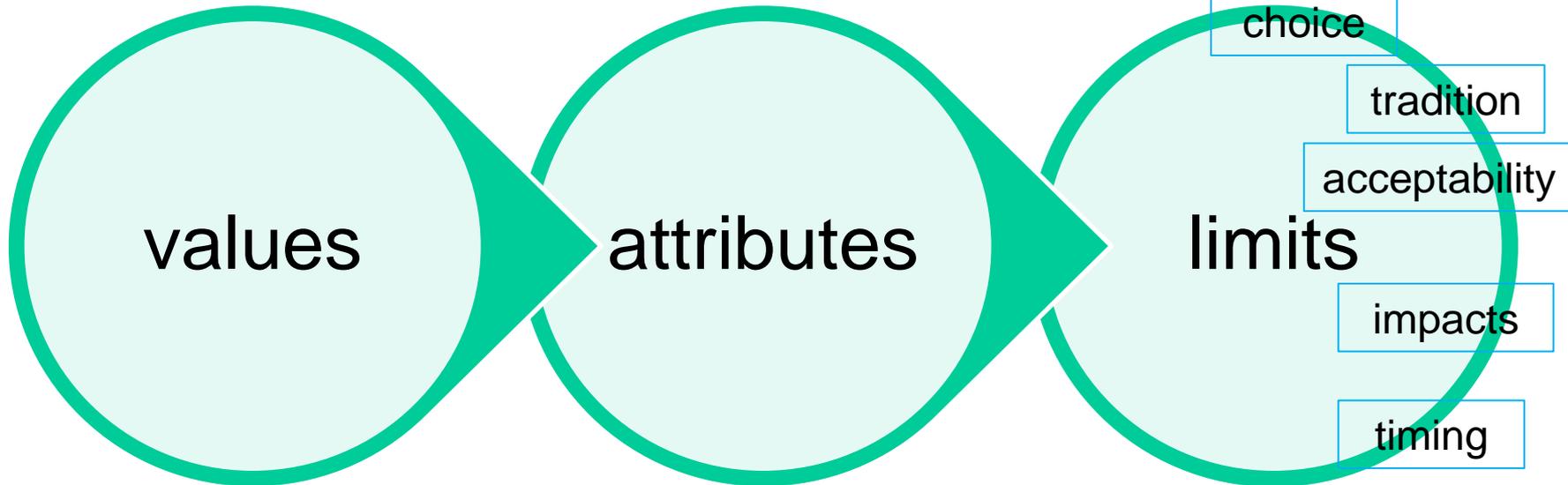
Nga tohu o te wai

- Develop knowledge and tools to enhance kaitiakitanga of mahinga kai/hauanga kai by supporting the setting of freshwater limits.
 - Identify knowledge gaps and existing tools in maatauranga and contemporary science that can be used for limit- setting;
 - Integrate maatauranga and science knowledge to understand what affects kai species;
 - Work through the process of setting bands for one of those species;
 - Identify locations for future work to test this process at a scale and in a way that is appropriate for tangata whenua and council processes;
 - Provide information on the outcomes of this work to the wider community.
- 4 years

- Mahinga kai / food gathering
- Kaukau / swimming
- Uara tuturu – cultural values

- Nitrogen
- Phosphate
- Sediment
- Pathogens

- Kai / food
- Kaukau / swimming
- Uara tuturu – cultural values



- Confirm kai species
- Confirm swimming places and time
- Confirm list of cultural values for study area or catchments

- What are the influences and attributes essential for maintaining and enhancing the values?
- What is the current state of these attributes?
- What influence (in context) do the 4 contaminants have on Maori values and their attributes?

- Can we articulate bands and if not what can be measured another way?
- What methods can be used to maintain or enhance attributes and values ? –what impact will they have?
- What are the spatial considerations?

Preliminary approaches and commissions

- Initial populating of the WOF
 - Literature
 - Iwi Management Plans and literature
 - Experts
 - Iwi representatives

Preliminary approaches and commissions

- Knowledge networks
 - Exploring Māori values and attributes
 - Contextualising 4 contaminants
 - Communicating to people

Preliminary approaches and commissions

- Collaborating with other programmes
 - Ngā tohu o te wai



Healthy Rivers
PLAN FOR CHANGE

Wai Ora

HE RAUTAKI WHAKAPAIPAI



RAUKAWA CHARITABLE TRUST
TE POARI MANAAKI O RAUKAWA



TŪWHARETOA
MĀORI TRUST BOARD

