



Manaaki Whenua
Landcare Research

Wai ora

A kaupapa Māori assessment tool

Our Land, Our Future

Tō tātou whenua, mō āpōpō

- MfE Link seminar 11th of October 2017
- Kiri Reihana, Yvonne Taura, Dr Shaun Awatere

Acknowledgements

- Auckland Council – Wai Ora Wai Māori freshwater programme
- Ngā Tohu o Te Taiao project
 - Waikato-Tainui researchers
 - Ngāti Tahu Ngāti Whaoa
 - Waahi Whaanui
 - Tapuika





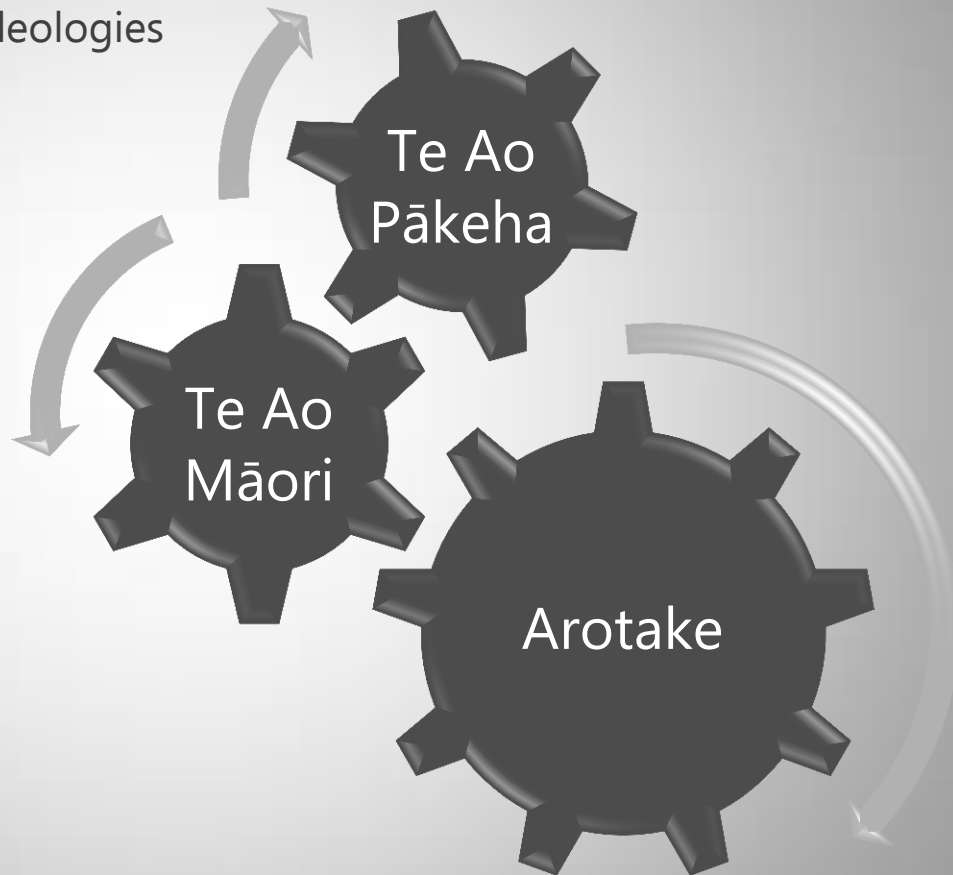
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KAUPAPA MĀORI ASSESSMENT TOOL

Ngā Kaupapa Ideologies

- Dual Approach
- Empowers Māori Position





Ngā Inenga Measures

- Holistic
- Qualitative and Quantitative



Hauora

Taiao ora – Whānau ora – Mauri ora

Health, Life and Well-being

Flourishing Nature – Thriving Families – The Essence of Vitality!



Tahu-Whaoa



Mātāpono me ngā Ahuatanga Values & Attributes

Taiao ora – Flourishing Nature

- 1 Is it safe to eat taonga species from this site?
- 2 Do the taonga species have a suitable habitat?

Whanau ora – Thriving Families

- 1 Can whanau exercise manaakitanga?
- 2 Can whanau participate effectively in whanaungatanga?

Mauri ora – The Essence of Vitality

- 1 Are the senses awakened at the mahinga kai?
- 2 Do tangata tiaki feel connected to the mahinga kai?

Taiao Ora

Flourishing Nature



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Is it safe to eat taonga species from this site?

AE 1 Koura: Tail is tightly curved

KAO 0 Koura: Tail muscle underneath is porcelain white, or other signs of disease

AE 1 Tuna: Has an even colouring, fins are intact and eyes are bright

KAO 0 Tuna: Looks dull or pale with visible signs of boils, ulcers, parasites, and pale eyes

AE 1 Watercress: No evidence of animal grazing, young shoots

KAO 0 Watercress: Evidence of recent grazing by animals, or in flower, green/purple stalks, located close to riparian margins

Taiao Ora

Flourishing Nature



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Do taonga species have a suitable habitat?

PAI RAWA	4	Is the habitat capacity very strong and is there minimal impact from invasive pest species and landuse change
PAI	3	Is the habitat capacity strong and is there some impact from invasive pest species and landuse change
AHUA PAI	2	Is the habitat capacity limited and is there significant impact from invasive pest species and landuse change
POHARA	1	Is the habitat capacity severely limited and is there significant impact from invasive pest species and landuse change
AUE	0	Is the habitat capacity very severely limited and is there significant impact from invasive pest species and landuse change

Whanau Ora

Thriving families



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Can whanau exercise manaakitanga?

PAI RAWA	4	Abundant kai available for hui such as tangihanga and the whanau
PAI	3	Sufficient kai available for hui such as tangihanga and the whanau
AHUA PAI	2	Some kai available hui such as tangihanga and the whanau
POHARA	1	Sparse kai available for hui such as tangihanga and the whanau
AUE	0	Kai unavailable for hui such as tangihanga and the whanau

Whanau Ora

Thriving families



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Can whanau participate effectively in whanaungatanga?

PAI RAWA	4	Tikanga (e.g. maramataka (moon/calendar), rahui, wananga etc.) are practised, maintained or shared amongst whanau, and kaitiaki have full access to the mahinga kai
PAI	3	Most tikanga are practised, maintained or shared amongst whanau and kaitiaki have some access to the mahinga kai
AHUA PAI	2	Some tikanga practised or shared amongst whanau, and kaitiaki have limited access to the mahinga kai
POHARA	1	Few tikanga practised or shared amongst whanau, and kaitiaki have no access to the mahinga kai
AUE	0	Tikanga are not practised or shared amongst whanau, and kaitiaki have no access to the mahinga kai

Mauri Ora

The Essence of Vitality



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Are the senses awakened at the mahinga kai?

- | | | |
|------------|---|---|
| MAURI ORA | 4 | Your gut feeling, hearing, smell, look, and taste are invigorated |
| MAURI PIKI | 3 | Your gut feeling, hearing, smell, look, and taste are engaged |
| MAURI OHO | 2 | Your gut feeling, hearing, smell, look, and taste are awakened |
| MAURI NOHO | 1 | Your gut feeling, hearing, smell, look, and taste are dull |

Mauri Ora

The Essence of Vitality



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Do tangata tiaki feel connected to the mahinga kai?

MAURI ORA	4	The connection between tangata tiaki and the mahinga kai is invigorated
MAURI PIKI	3	The connection between tangata tiaki and the mahinga kai is engaged
MAURI OHO	2	The connection between tangata tiaki and the mahinga kai is awakened
MAURI NOHO	1	The connection between tangata tiaki and the mahinga kai is dull

MAHINGA KAI STATES



A

DESCRIPTION

Excellent: Mahinga kai is enhanced or restored and a full range of values for flourishing nature, thriving families, and the essence of vitality are exhibited and maintained

RANGES

17-21

ATTRIBUTES

Taiao ora

- 1 Is it safe to eat taonga species from this site?
- 2 Do the taonga species have a suitable habitat ?

MEASURES

AE - KAO

PAI RAWA - AUE

B

Good: Mahinga kai is maintained and a wide range of values for flourishing nature, thriving families, and the essence of vitality are expressed and maintained

12-16

Whanau ora

- 1 Can whanau exercise manaakitanga?
- 2 Can whanau participate effectively in whanaungatanga?

PAI RAWA - AUE
X 2

C

Fair: Mahinga kai is below acceptable standards and a paucity of values for flourishing nature, thriving families, and the essence of vitality are expressed and maintained

7-11

Mauri ora

- 1 Are the senses awakened at the mahinga kai?
- 2 Do tangata tiaki feel connected to the mahinga kai site?

MAURI ORA -
MAURI NOHO X 2

D

Poor: Mahinga kai diminished and values for flourishing nature, thriving families, and the essence of vitality are not expressed

2-6



Field Trials

FRAMEWORK VALIDATION



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Torepatutahi Stream





MAHINGA KAI	Kaimahi 1	Kaimahi 2	Kaimahi 3	Kaimahi 4
Ingoa	Torepatutahi	Torepatutahi	Torepatutahi	Torepatutahi
Ra	21/04/2017	21/04/2017	21/04/2017	21/04/2017
Wa	12:40:00 a.m.	12:40:00 a.m.	12:40:00 a.m.	12:40:00 a.m.
Taunga	38°29'11.54"S, 176°20'4.54"E	38°29'11.54"S, 176°20'4.54"E	38°29'11.54"S, 176°20'4.54"E	38°29'11.54"S, 176°20'4.54"E
TAIAO ORA				
Is it safe to eat taonga species from this site?	AE	AE	AE	AE
Do toanga species have a suitable habitat?	PAI	PAI	PAI	PAI
WHANAU ORA				
Can whanau exercise manaakitanga?	AHUA PAI	PAI	PAI	PAI
Can whanau participate effectively in whanaungatanga?	PAI	PAI	PAI	PAI
MAURI ORA				
Are the senses awakened at the mahinga kai?	MAURI PIKI	MAURI OHO	MAURI OHO	MAURI OHO
Do tangata tiaki feel connected to the mahinga kai?	MAURI OHO	MAURI OHO	MAURI OHO	MAURI OHO
MAHINGA KAI INDEX SCORE	14	14	14	14
AGGREGATE SITE SCORE				14

WAIORA

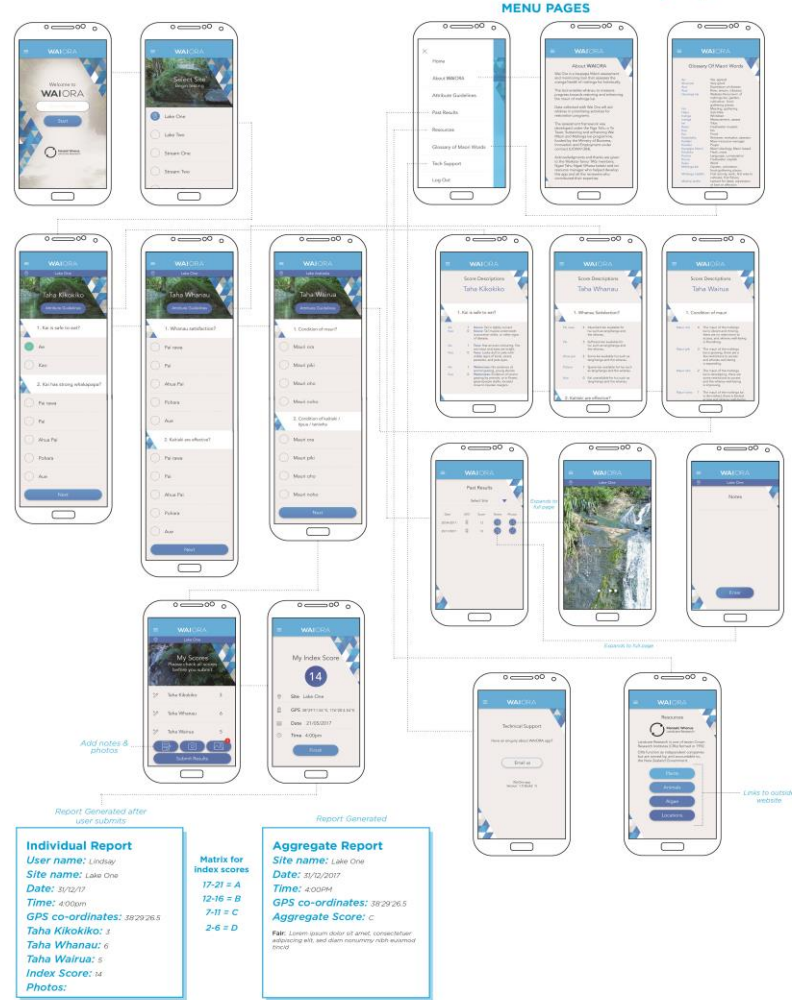
Mobile app



Wireframe

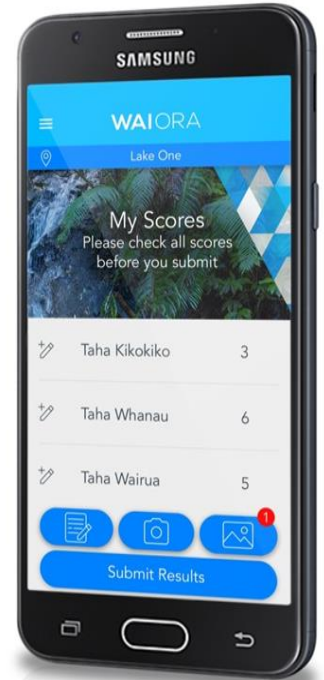
WAIORA WIREFRAME

05/10/2017



Front End

Scores and data submission



Waiora Admin Video Masthe... YouTube CINEMABLENO ROADSHOW Pagestore STUDIO CANAL Simek MDX ARTSHARE Campaign Monitor Facebook Iconfinder Iconmonstr IMP Awards HD Trailers NZ Rating www.whatfontis.com WeTransfer Sites

Herald Homepage - New Zealand's latest news, bu... Survey results Public Holidays 2018 Dates in Australia - Calendar... NZ Public Holidays 2018 (3) Twitter Wili Luke's Lightsaber Se Red in The Last Jedi? - J... WeTransfer

Waiora app admin

QUESTIONS

- Sites
- Question groups
- Questions

RESULTS

- Survey results**
- Users

Survey results

Q Search

Created at	User	Site	Index score	Actions
October 6, 2017 11:41	Hi there	Lake Araratia	16	Show Delete
October 6, 2017 11:41	Hi there	Lake Araratia	16	Show Delete
October 6, 2017 11:34	Hi there	Lake Araratia	2	Show Delete
October 6, 2017 11:30	Evelyn Forrest	Mangahoanga Stream	21	Show Delete
October 6, 2017 11:03	Kiri	Mangahoanga Stream	14	Show Delete
October 6, 2017 11:03	Evelyn Forrest	Mangahoanga Stream	14	Show Delete
October 6, 2017 11:03	Gjfd	Lake Araratia	21	Show Delete
October 6, 2017 11:03	Hi there	Ruatawiri Stream	21	Show Delete
October 6, 2017 11:03	Crash test	Mangahoanga Stream	14	Show Delete
October 6, 2017 11:03	Gabriel Forrest	Mangahoanga Stream	12	Show Delete
October 6, 2017 11:02	Mickey	Mangaharakeke Stream	8	Show Delete
October 6, 2017 11:01	Evelyn Forrest	Mangahoanga		
October 6, 2017 11:01	Hohepa	Lake Ngahewa		
October 6, 2017 11:01	Kiri	Mangahoanga		
October 5, 2017 16:15	Irene	Lake Araratia		

1 - 15 of 72

Waiora app admin

SurveyResult (#82)

ID: 82

Created at: September 26, 2017 19:26

Site: Lake Orana

Index score: 0

Notes: weather has been clearing for the last week

Tasks One: 0

Whanau One: 0

Moun One: 0


Source:

- Task One 0
- Whanau One 0
- Moun One 0


View:

- Location

Location:



Photos:

- 

Backend





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MANAAKI WHENUA – LANDCARE RESEARCH

Pātai