

Wai Ora Cultural Monitoring Framework – A Māori innovation towards sustainability



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Healthy Waters

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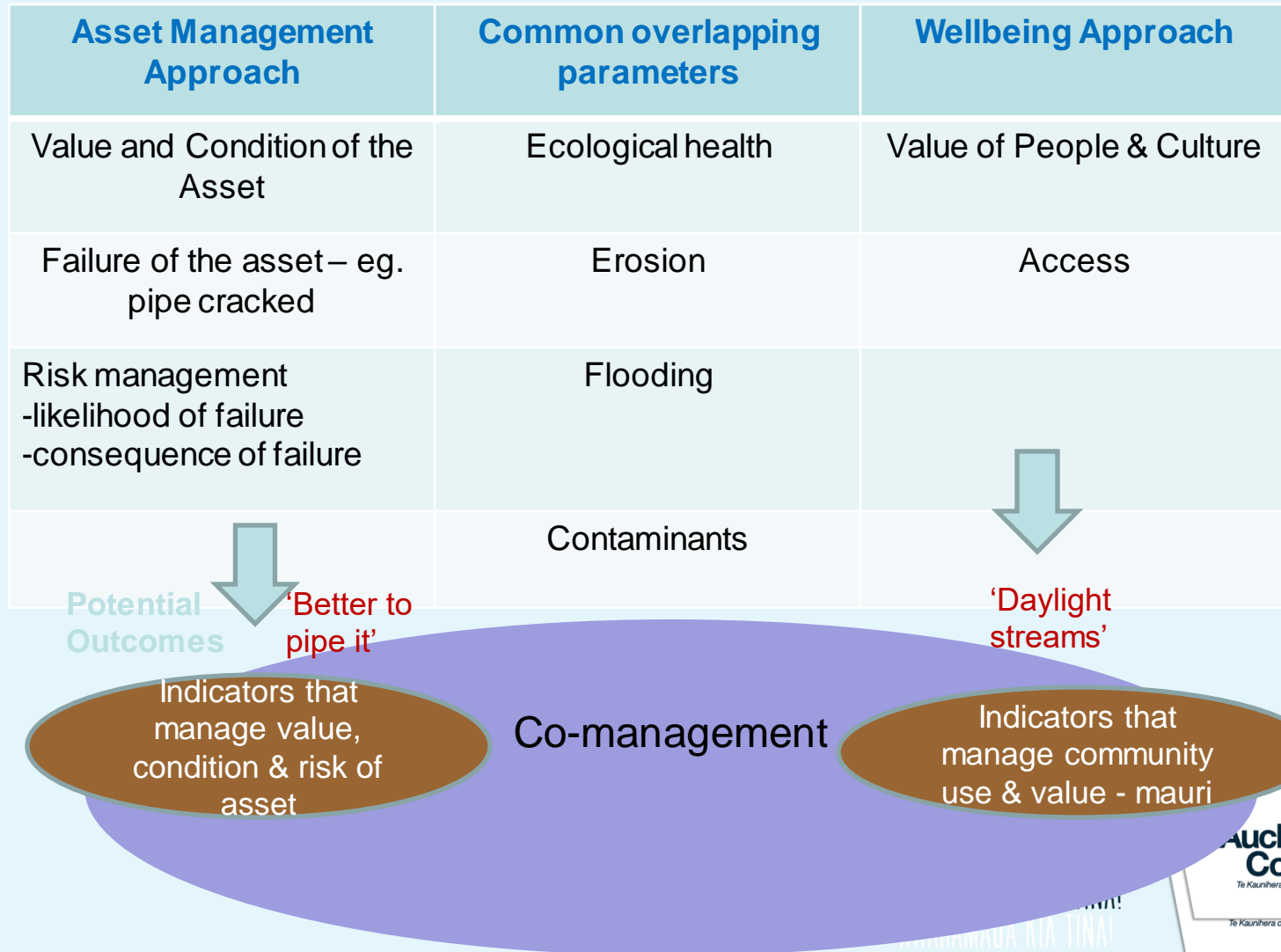


Declaration on Rights of Indigenous Peoples (2007)
Sustainability Development Goals (2015)



WAI 2358 National Freshwater & Geothermal Resources
Māori rights and interests in freshwater (2019)
Treasury Living Standards Framework (2019)

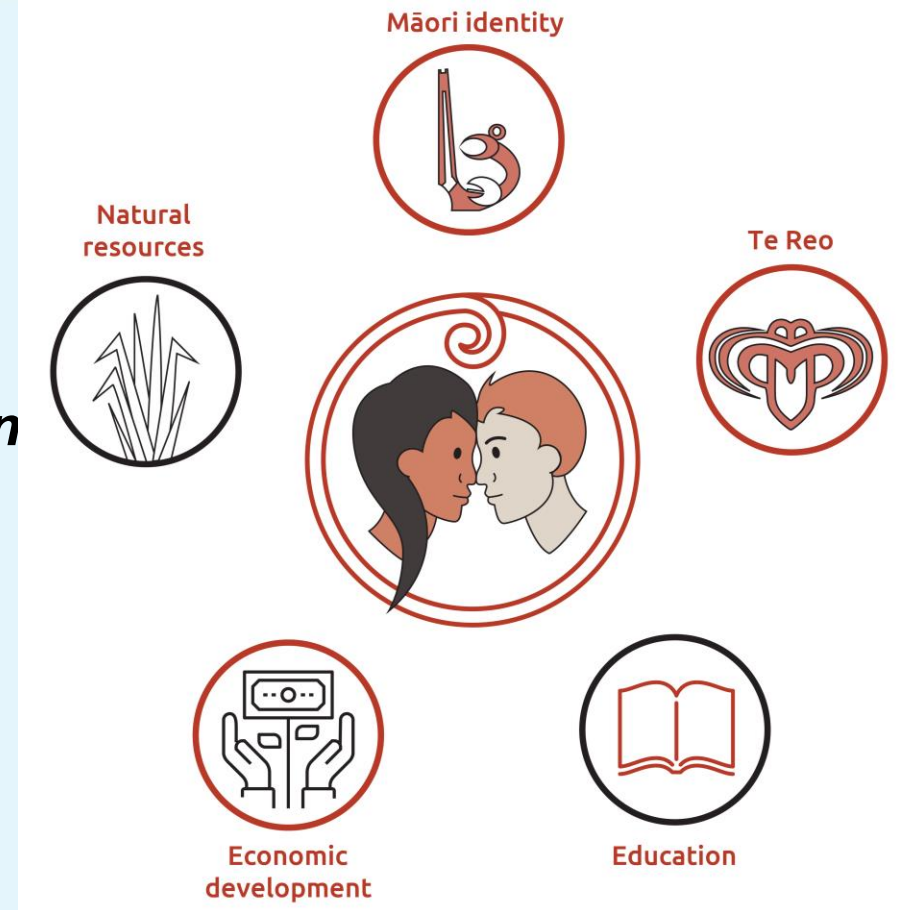
How does a Well-being approach differ to Asset Management Approach?



Why a new mana o te wai approach?



- ❑ ***Traditional approaches do not incorporate Māori views***
- ❑ ***Need to actively engage with Māori and communities, to understand Māori management 'asset'***
- ❑ ***Need to develop a cultural monitoring framework that evaluates the value of awa***
- ❑ ***Work towards a more sustainable future where Māori values are instrumental to decision making***

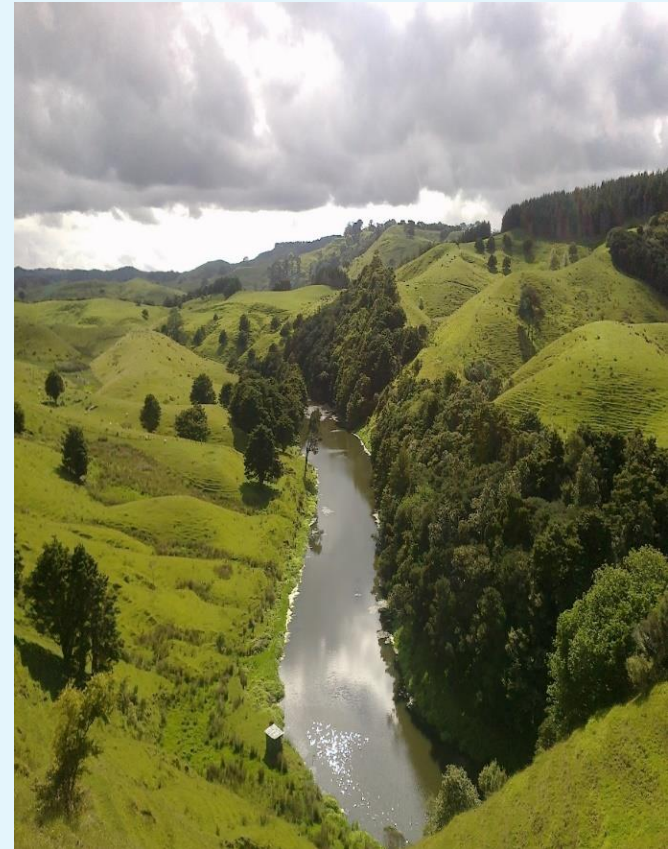


BE THE HOW.
WHAKAMAUA KIA TĪNAI

CMF Ōruarangi



Scoring of each variable:
1 (Very Poor) to
5 (Very Good)



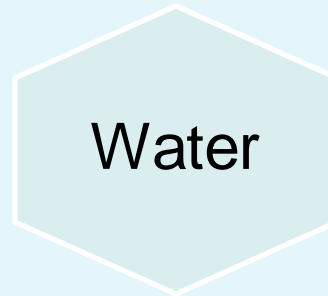
Source: Ngā Kaihautū
EPA

BE THE HOW.
WHAKAMAUA KIA TINAI

Example Rating of Water - Variable (4 of 9)



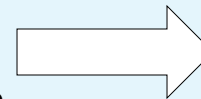
Scoring of Water variable:



Indicator	EPA Description	Very Poor	Poor	Fair	Good	Very Good
4	Water	1	2	3	4	5

Mahinga kai non existent,
high number of pest
species & kiatiaki access is
prohibited

1



Plentiful mahinga kai,
species are thriving, good
access, healthy wai,
healthy kai for gathering.

BE THE HOWE 5
WHAKAMAUA KIA TINAI

Ka Mua, Ka Muri Monitoring Scoring Matrix



Indicator	EPA Description	Very Poor	Poor	Fair	Good	Very Good	Score
1	Vegetation	1	2	3	4	5	
2	Animals, birds, fish	1	2	3	4	5	
3	Soil	1	2	3	4	5	
4	Water	1	2	3	4	5	
5	Air	1	2	3	4	5	
6	Urban impact	1	2	3	4	5	
7	Special Places	1	2	3	4	5	
8	Sacred Places	1	2	3	4	5	
9	Metaphysical elements	1	2	3	4	5	
Total Score / 45							



Mua, Ka Muri Monitoring – Oruarangi Creek Scoring - Historic



Indicator	EPA Description	Very Poor	Poor	Fair	Good	Very Good	1950 Score
1	Vegetation	1	2	3	4	5	3
2	Animals, birds, fish	1	2	3	4	5	4
3	Soil	1	2	3	4	5	3
4	Water	1	2	3	4	5	3
5	Air	1	2	3	4	5	4
6	Urban impact	1	2	3	4	5	3
7	Special Places	1	2	3	4	5	2
8	Sacred Places	1	2	3	4	5	3
9	Metaphysical elements	1	2	3	4	5	3
Total Score / 45							28



Ka Mua, Ka Muri Monitoring – Oruarangi Creek Scoring - 2020

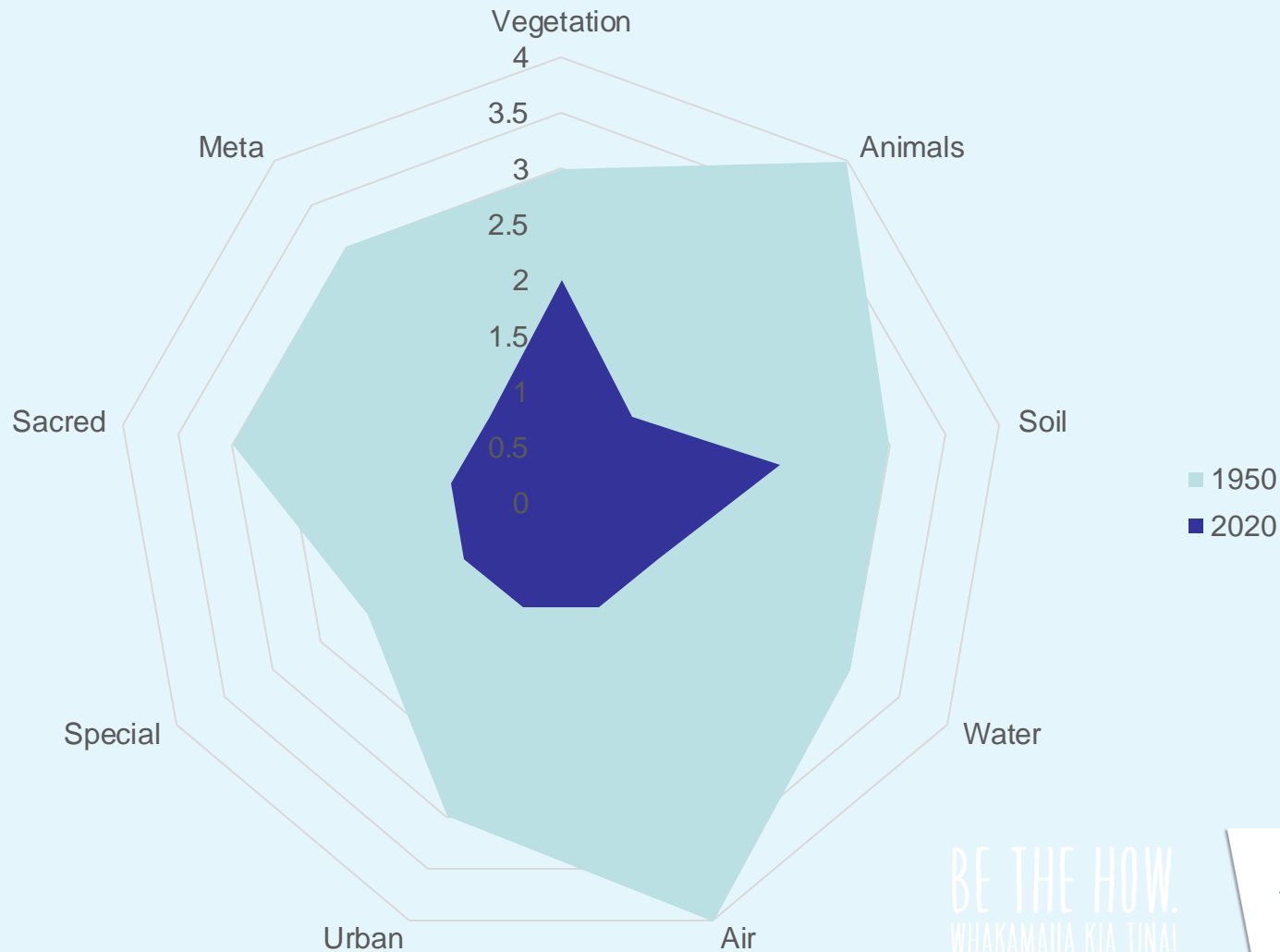


Indicator	EPA Description	Very Poor	Poor	Fair	Good	Very Good	2020 Score
1	Vegetation	1	2	3	4	5	2
2	Animals, birds, fish	1	2	3	4	5	1
3	Soil	1	2	3	4	5	2
4	Water	1	2	3	4	5	1
5	Air	1	2	3	4	5	1
6	Urban impact	1	2	3	4	5	1
7	Special Places	1	2	3	4	5	1
8	Sacred Places	1	2	3	4	5	1
9	Metaphysical elements	1	2	3	4	5	1
Total Score / 45							11



Ka Mua, Ka Muri Monitoring

Scenario 1: Oruarangi Creek Metrics 1950-2020



BE THE HOW.
WHAKAMAUA KIA TINAI

Ka Mua, Ka Muri Monitoring Implementation



1. Fieldwork with rangatahi, access, identify and measure using tuakana-teina approach developed by Te Ahiwaru



HOW.
KIA TINAI

Auckland
Council

Te Kaunihera o Tāmaki Makaurau



Ka Mua, Ka Muri Monitoring Implementation



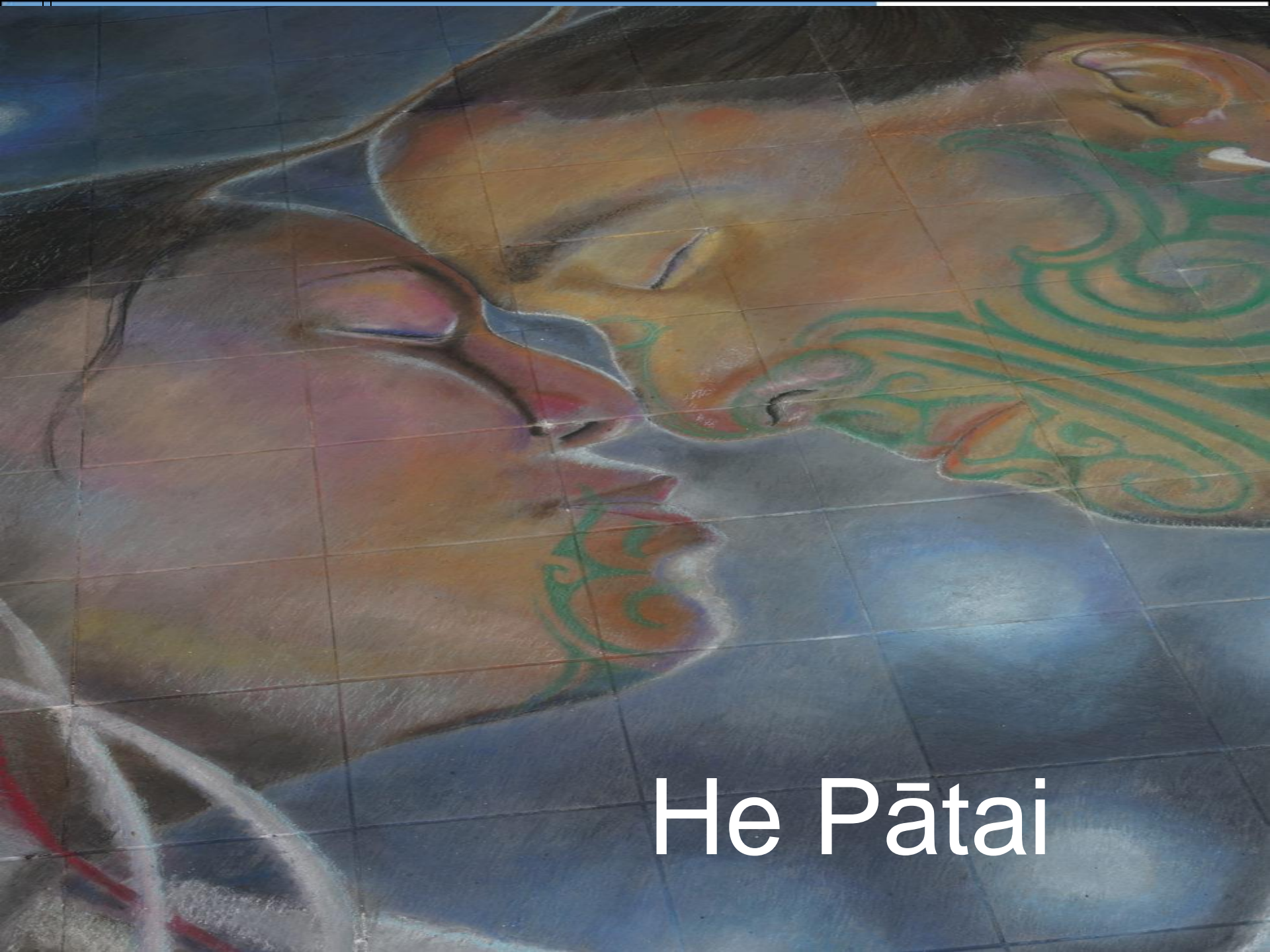
2. Wananga with kaumatua and kuia and score evaluation framework for historic and current time periods



Conclusion



- ❑ There is presently, a lack of knowledge of what is required to enable Māori values in decision making
- ❑ The framework incorporates a mātauranga and science approach, focusing on an operational level of implementation within communities
- ❑ Implementation is resource intensive and requires joint ownership approach and is in line with strengthening capacity development.
- ❑ Framework enables Māori values to be included in Council decision making without giving away IP



He Pātai