

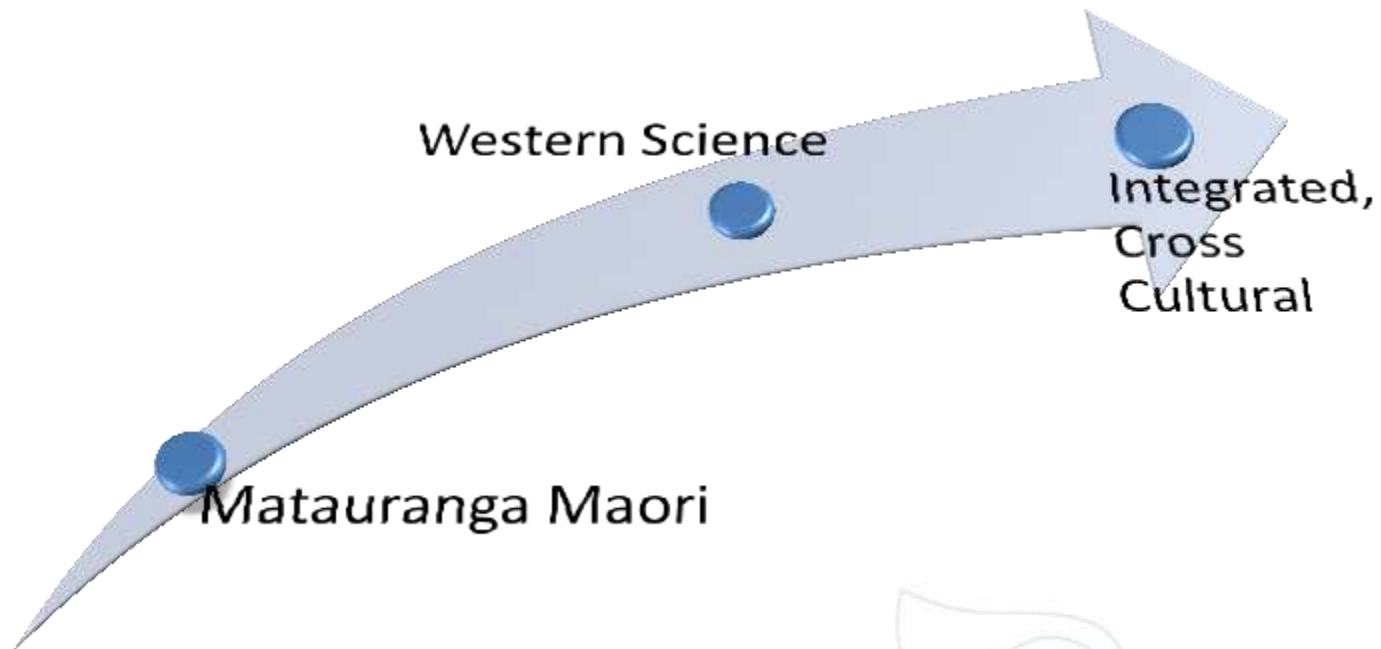
TE TAIWHAKAPIRI

Building relationships through cross-cultural research

Manaaki Taha Moana (MTM) is a research programme to restore and enhance coastal ecosystems and their services of importance to iwi, through a better knowledge of these ecosystems and the degradation processes that affect them.



Cross Cultural Research, Tauranga Moana



Cross Cultural Research, Tauranga Moana

Manaaki Taha Moana (MTM) research programme aim: to restore and enhance coastal ecosystems and their services of importance to iwi, through a better knowledge of these ecosystems and the degradation processes that affect them

- How do we effectively manage, restore or enhance something we don't fully understand?
- How do we better understand?



Who?



Why are relationships so important for cross-cultural research?

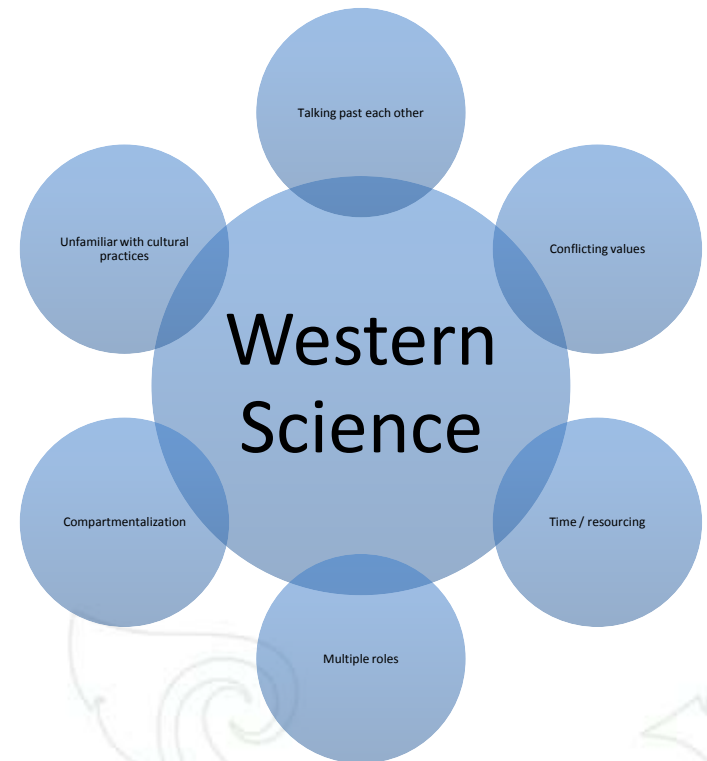
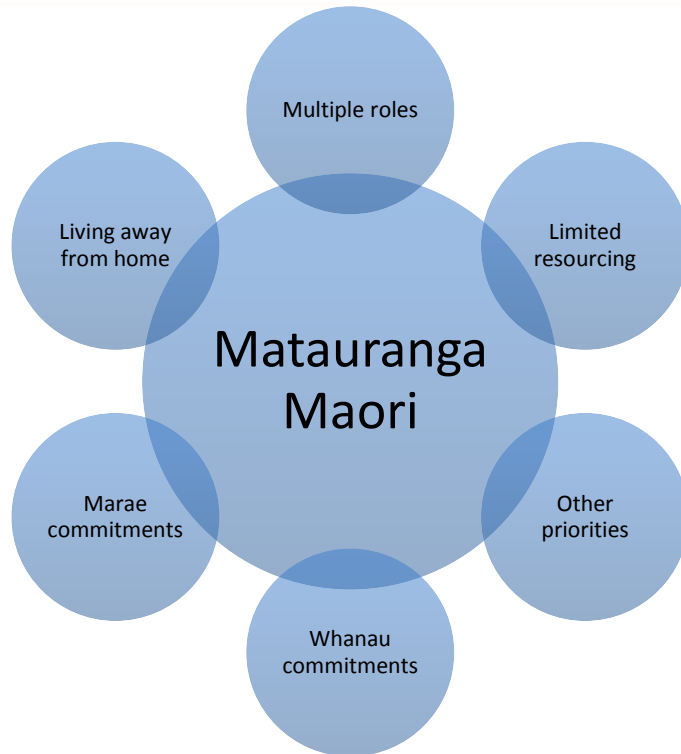




Why are relationships so important for cross-cultural research?



Nga wero/What are the challenges?



Nga Rau Potai



Iwi
Representative



Hapu
Representative



Hapu
Representative



Kaumatua
on the pae



Fisherman
for the marae



Fisheries
committee

Overcoming challenges: Research Principles



Ata

Manaakitanga

Maramatanga

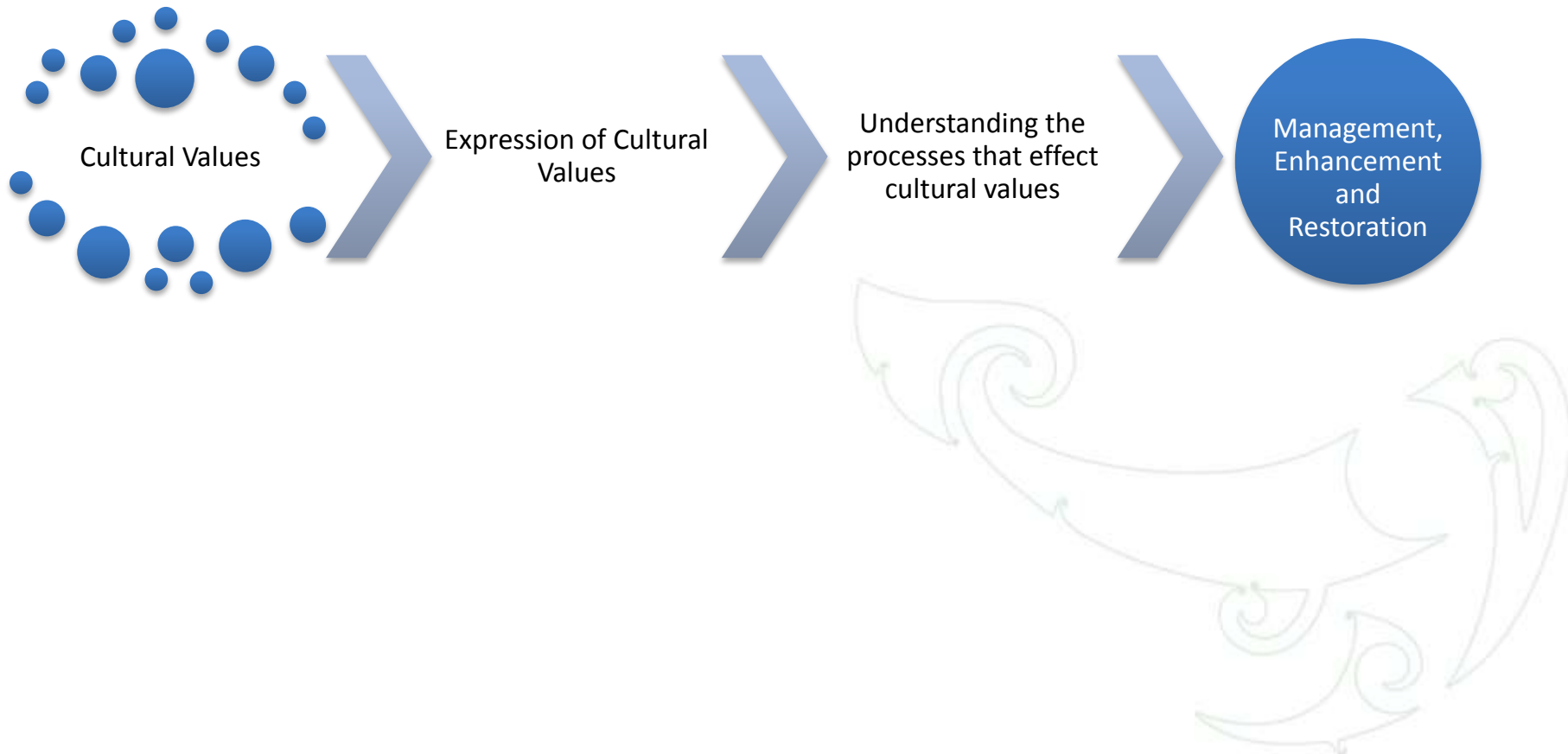
Kotahitanga

Taonga Tuku Iho

Tino Rangatiratanga

Tikanga/Kawa

Overcoming Challenges: Cultural Frameworks



KO AU KO TE MOANA

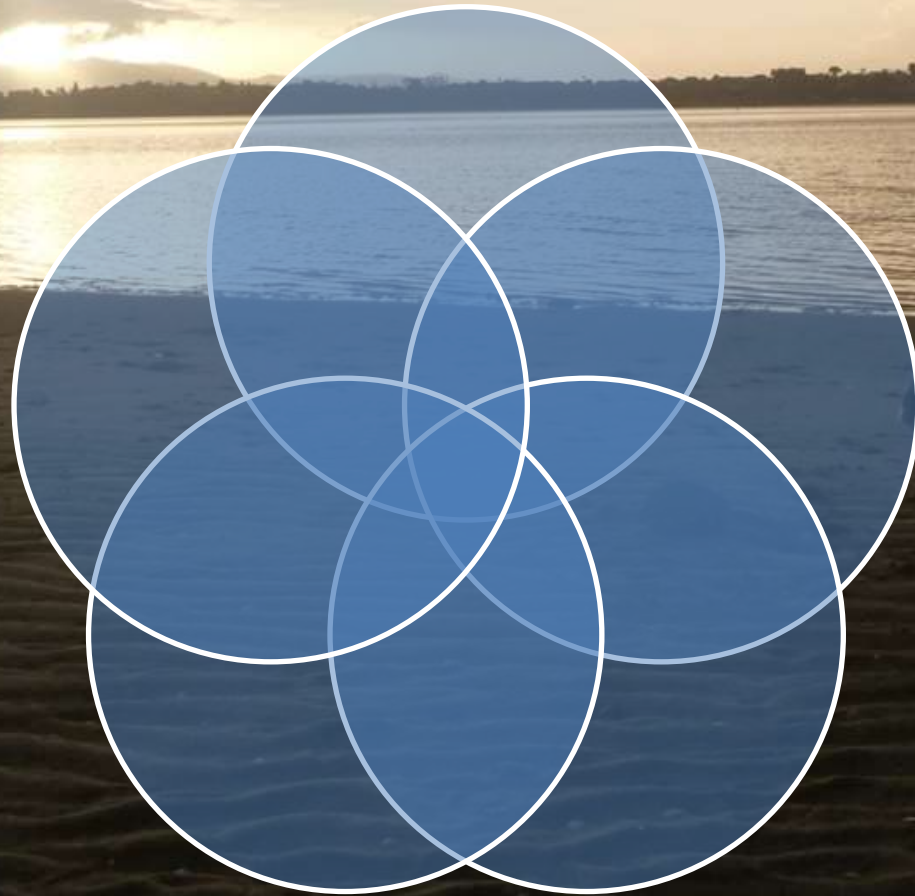
W AIRUA

WHANAU

HINENGARO

TINANA

WHENUA



Overcoming Challenges: Cultural Frameworks

	Matauranga Maori	Western Science
Wairua	<ul style="list-style-type: none"> • Mauri • Tohu Wairua 	
Hinengaro	<ul style="list-style-type: none"> • Site Significance • Ingoa Tawhito • Traditional Practices • Taonga Tuku Iho • Kaitiakitanga 	
Whenua	<ul style="list-style-type: none"> • Land Use • Pollution • Riparian Margin • Wetlands • Sedimentation • Erosion 	Ecological Component <ul style="list-style-type: none"> • Grain Size • Heavy Metals • Chl a • AFDW
Whanau	<ul style="list-style-type: none"> • Coastal Vegetation • Algae • Riparian Margin • Invasive Species 	Biodiversity <ul style="list-style-type: none"> • Community Comp
Tinana	<ul style="list-style-type: none"> • Manākitanga • Condition • Safety 	Taonga Species Survey <ul style="list-style-type: none"> • Population Distribution • Condition Index • Contaminants

Overcoming Challenges: Tools



Overcoming Challenges: Research Projects



Mediated Modeling



Broad scale Survey



Mahinga Mataitai



Coastal Cultural Health Index



Wastewater Survey



Kaimoana Restoration Plan

Overcoming Challenges: Knowledge Sharing and Networking Opportunities



Outcomes vs Outputs













B7.5 Sed

C9 Sediment





























