

Bicultural Methods for Biodiversity Measurement and Monitoring

Shaun Awatere



LANDCARE RESEARCH
MANAAKI WENUA

Kaitiakitanga



Western Planning



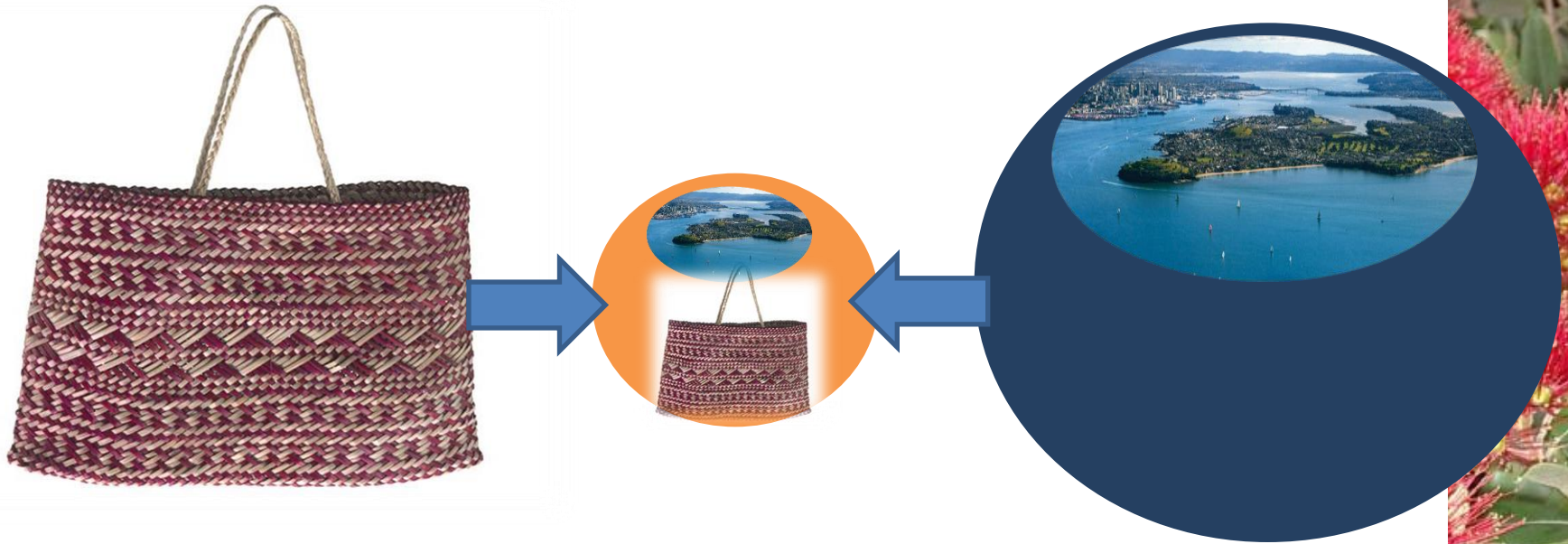
Common approach

- Co-option of Mātauranga Māori
- Descriptors of Mātauranga Māori in plans but not enacted
- Mana Whenua not empowered



Kaitiakitanga

Western Planning



Co-planning

- Mana whenua empowered
- Mātauranga Māori acknowledged as valid
- Mātauranga Māori informed planning

Defining the Māori world view

MĀTAURANGA MĀORI



DEFINING MĀTAURANGA MĀORI

Te Ao Tūroa
Ecosystem

Wairuatanga
Metaphysics

Whakaaroaro
Logic

Te Ao Hurihuri
Modern

Kaitiakitanga
Resource Use

Whakaponotanga
Epistemology

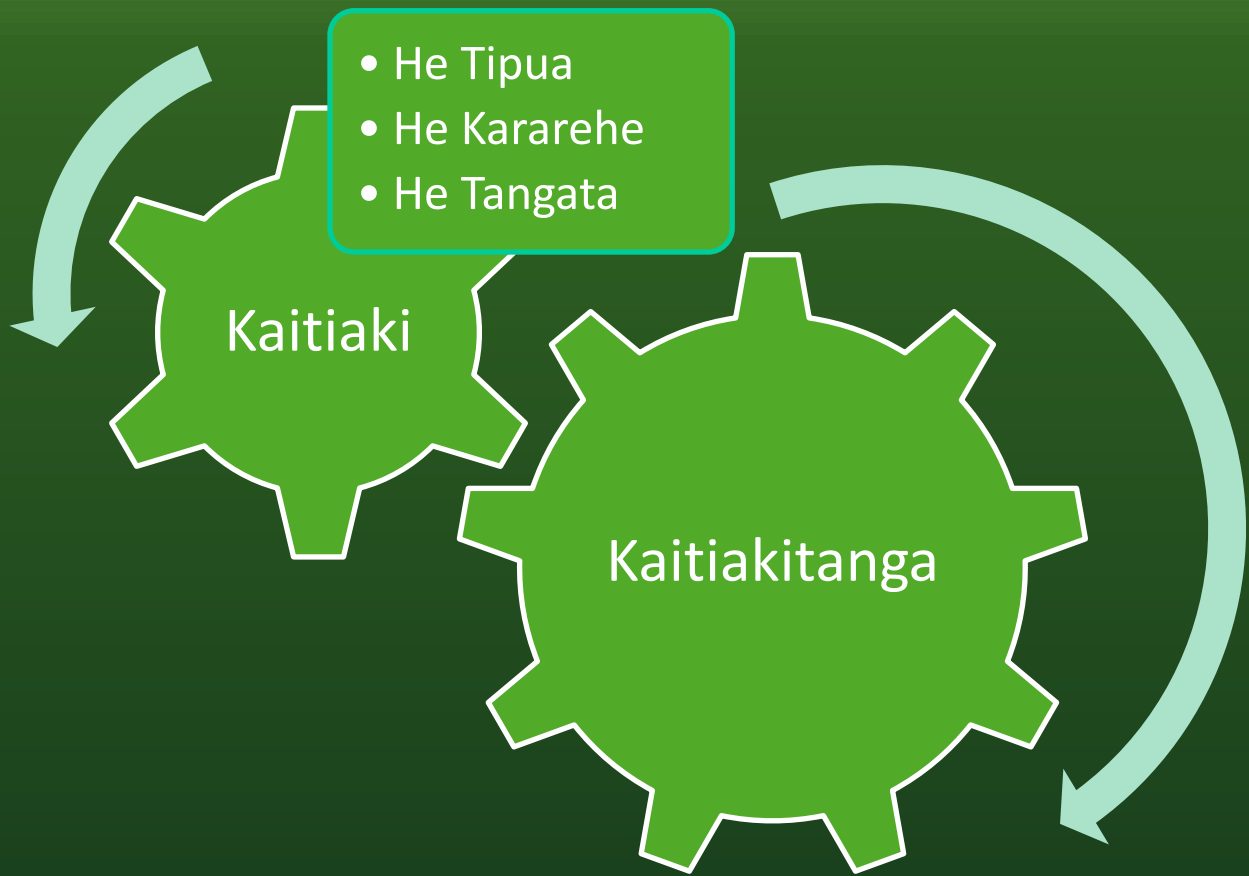
Ngā Mātāpono
Core Values

KAITIAKITANGA
MANAAKITANGA
WHAKAPAPA
MANA WHAKAHAERE



NGĀ MĀTĀPONO

Core Values



KAITIAKITANGA

Sustainable Resource Management

Ngā Atua

Ngā Tangata Whenua

Ngā Iwi me ngā Hapū

Tangata Kaitiaki

He Aotūroa

WHAKAPAPA

Interconnectivity

PROVISION OF TAONGA SPECIES



MANAAKITANGA

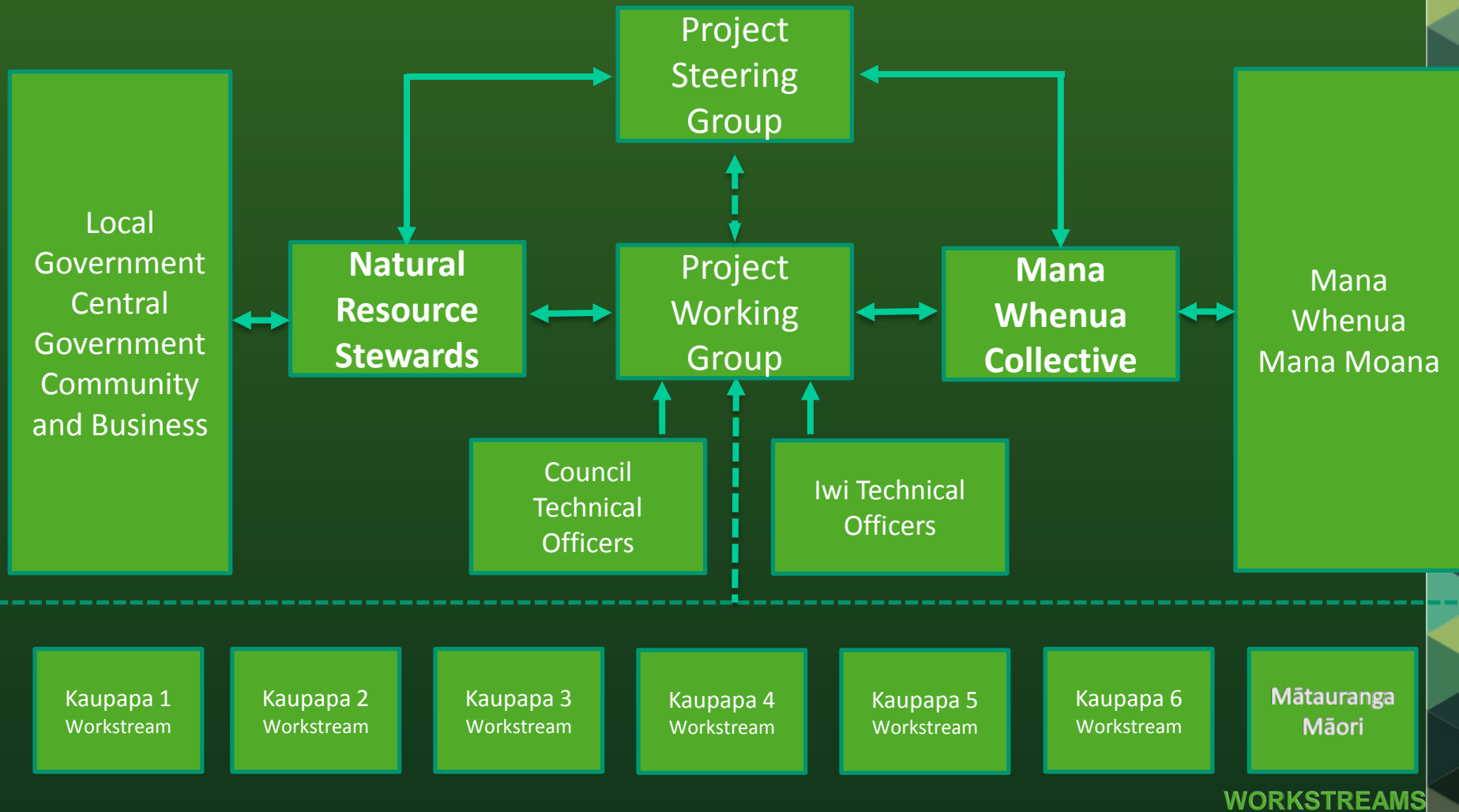
Reciprocity

MANA WHAKAHAERE

Decision Making Rights



Treaty of Waitangi collaborative planning framework for natural resources



WORKSTREAMS

Integrating Mātauranga Māori into Policy

KIA WHAKAURU MĀTAURANGA



Kaupapa

Policy

- Ngā Wawata Outcomes
- Ngā Huanga Goals and Objectives
- Arotakenga Monitoring and Evaluation

KIA WHAKAURU MĀTAURANGA

Integrating Policy

Ngā Wawata

- A marae can provide traditional kai – tuna, tītī, and koura for manuhiri (manaakitanga)

Ngā Huanga

- Access to mahinga kai and sustainable catch/take limits
- Enhanced water quality
- Enhancing and Protecting Biodiversity

Arotakenga-taha wairua

- Cultural Health Index, Te Mauri model, identify change/trends in the state or mauri, presence/absence of kaitiaki/tipua

Arotakenga-taha tinana

- Nutrient management/reduction, Sustainable species management and practice, Mahinga Kai Reserves, Condition of cultural resources

HE TAUIRA

An example

HE PĀTAI TĀU?

HE WHAKAARO KĒ?