

Te Tai Pari – Gisborne

September 13/14 2018

Panel Discussion

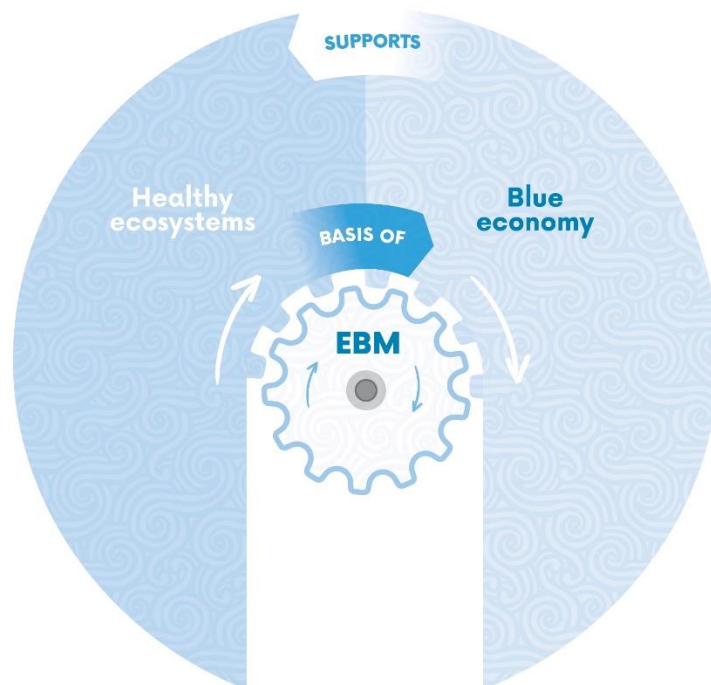
SUSTAINABLE SEAS

Ko ngā moana
whakauka



Issues with current marine management

- Current practices may not be sustainable in the long term
- Lack of tools and understanding to maintain ecological functioning in complex, multi-use systems
- Marine ecosystems are modified by marine and land-based activities
- Enhanced use is hindered by lack of decision-making tools where information is limited
- Difficulty in making trade-offs in areas of competing use
- People feel divorced from decision-making, that local values aren't considered, and that equity is lacking
- Lack of integration across central and regional agencies and regulatory frameworks



Collaborative decision-making

Collaborative, co-designed and participatory decision-making processes involving all interested parties.



Tailored

Place and time specific, recognising all ecological complexities and connectedness, and addressing cumulative and multiple stressors.



Co-governance

Governance structures that provide for Treaty of Waitangi partnership, tikanga and mātauranga Māori.



EBM Ecosystem-based management for Aotearoa

A holistic and inclusive way to manage marine environments and the competing uses for, demands on, and ways New Zealanders value them.



Human activities

Humans, along with their multiple uses and values for the marine environment, are part of the ecosystem.



Sustainability

Marine environments, and their values and uses, are safeguarded for future generations.



Knowledge-based

Based on science and mātauranga Māori, and informed by community values and priorities.



Adapts

Flexible, adaptive management, promoting appropriate monitoring, and acknowledging uncertainty.

National
Science
Challenges

**SUSTAINABLE
SEAS**

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Phase I of Sustainable Seas

Bringing together New Zealand's best to do world-leading research



*MBIE definition:
students, postdocs,
researchers with
1–4 years experience

206
researchers



49
early
career
researchers*

49
who
identify
as Māori

from
36
organisations



working on
38
projects



24
have Māori
researcher(s)
on the team

Figures as at 28 Feb 2018

Some highlights so far...

Multiple stressors & cumulative effects

Stressors impacting coastal environments are complex and multiple

- Tipping points in socio-ecological systems
- Interagency collaboration on cumulative effects
- Kaitiakitanga in practice – He Poutokomanawa



Adding value - a blue economy...

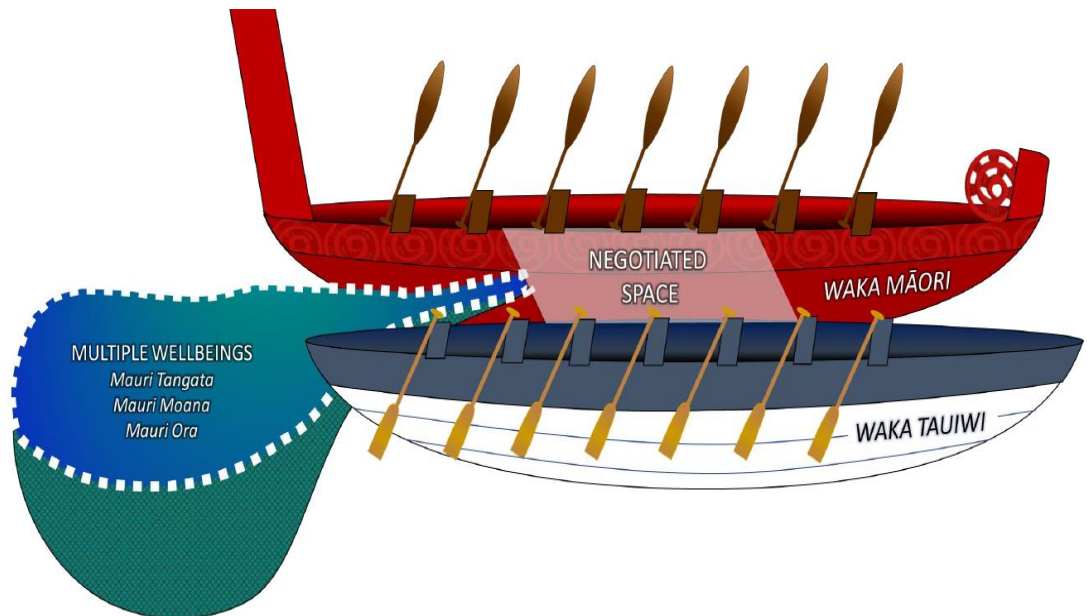
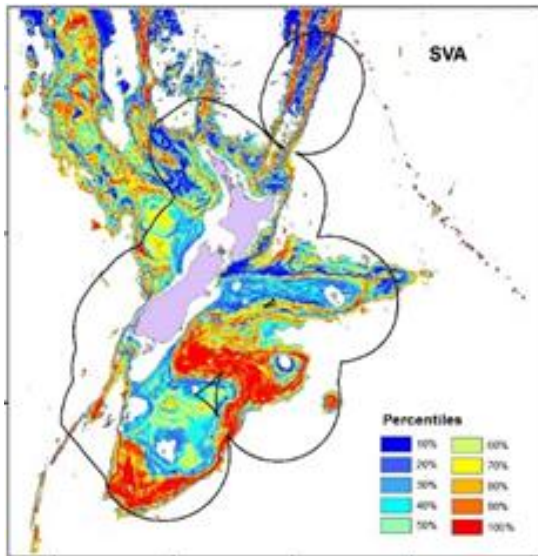
Works innovatively and sustainably with marine resources to add value and improve livelihoods

- Defining a blue economy
- Reducing extent of aquaculture and beach closures
- Melding environment, cultural, economic and health benefits
- Exploring the Māori marine economy



Ecosystem-Based Management

- Participatory processes for multi-use environments
- Understanding kaitiakitanga in our marine environment
- Developing valuation frameworks, principles & tools
- Innovative marine governance models – Lore & Law
- Parallel knowledge systems



Vision Mātauranga Policy

“unlock the science and innovation potential of Māori knowledge, resources and people to assist New Zealanders to create a better future”.

Vision Mātauranga Themes

- | | |
|--------------------------------|--|
| • Indigenous Innovation | Contribution to economic growth |
| • Taiao/Environment | Achieving environmental sustainability |
| • Hauora/Health | Improve well-being |
| • Mātauranga | Exploring Māori knowledge |

Bringing Vision Mātauranga to life

- Investing in **Māori-relevant science and innovation**
- Developing **Māori science and innovation capability**
- Fostering connections to **grow opportunities for Māori science and innovation.**
- Supporting the development of **iwi-led research and development strategies.**
- Collaborating with other agencies to develop whole-of-government approaches.
- Partnering with the Regional Business Partners to improve collaboration between Māori, researchers and firms to **enhance knowledge transfer and business success.**

Opportunities for Māori communities

Enhanced participation of Māori in management processes and decision-making;

Māori values informing non-monetary values, and
Support Māori economic aspirations in the marine environment;

Mātauranga informing science – mātauranga incorporated within investigation;

Mātauranga incorporated within management tools, and tools to support
the application of mātauranga.

Vision Mātauranga (VM) Programme

- **Vision Mātauranga**

- **Implementation Plan**

- Outline a pathway for VM interaction - consistency and succession
 - Manage interaction expectations, and also research findings
 - Demonstrate programme actions

- **Mātauranga in Science**

- An attempt to bridge between kaupapa Māori methodology and mātauranga (knowledge system) and biophysical science

- **Engagement Plan**

- Targeted approach to engage with our Māori communities
 - Working with Communication and Outreach

- **VM Fund for Māori Participation**

- Targeted approach to support research projects to enable Māori communities to participate in their research

- **VM Research Projects**

- Two projects: International Comparative Study (Canada) and Repository of Knowledge

National **Science** Challenges

SUSTAINABLE SEAS

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Phase II

Phase II Research Themes

- Degradation and Recovery
- Blue Economy
- Risk and uncertainty
- Ecosystem based management

Vision Mātauranga in Phase II

Research in Phase II

- Vision Mātauranga is embedded throughout each theme
- There will be the continuance of a Māori centred research programme – *Tangaroa*

Māori Communities

- Continue relationships with iwi in the Focal Area
- Develop and enhance relationship outside of Focal Area

Sustainable Seas Research Community

- Wānanga environments for dissemination
- Capacity building (emerging Māori researchers/scientist, and kaupapa Māori workshops)

Tangaroa - Informing & Integrating

Partnering across Themes

- Tangaroa project leadership & partnership across & within Themes
 - Mātauranga based solutions to halting degradation & supporting recovery
 - Encouraging vibrancy and investment through kaitiakitanga based blue economy approaches
 - Addressing cultural understandings and expectations relating to risk & uncertainty
 - Providing for an EBM approach informed by mātauranga as well as Māori rights and interests

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