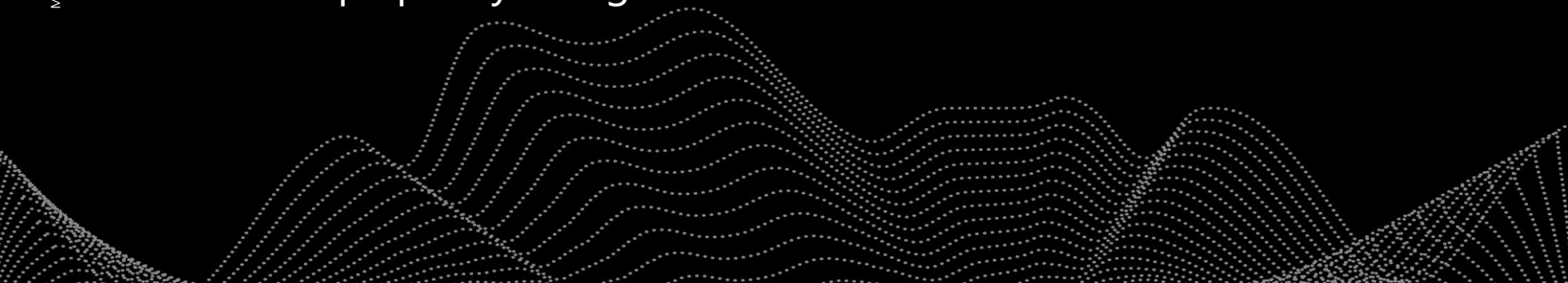




# Holistic governance: from the mountains to the sea.

Alison Greenaway and Lara Taylor  
Landscape policy and governance team.



# KARAKIA TIMATANGA



Manaaki Whenua  
Landcare Research

Whiti ora ki te whai ao  
Ki te ao mārama.

Whiti ki runga, whiti ki raro.

E ngungu ki te pōhatu

E ngungu ki te rākau

Tītaha ki tēnei taha

Tītaha ki tērā taha

Tihei mauriora.

Cross over to life in the changing  
world

in the world of light and  
understanding Cross upwards,  
cross downwards.

Turn to the rock

Turn to the tree

Leaning to this side

Leaning to that side.



# Introduction and overview

## Resources supporting conversations for holistic governance

- Narratives enabling ecosystem-based management
- 5 multi-media
- Ideas to energise

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# Co-production of knowledge and practice

Narratives help us to think and do nature-society differently.



Image from Le Heron, E., Le Heron, R., Taylor, L., Lundquist, C. and Greenaway, A. (2020) "Remaking ocean governance in Aotearoa New Zealand through boundary-crossing narratives about ecosystem-based management", Marine Policy, forthcoming.

# Holistic governance

Currently the aspiration of holistic governance links people, places and policies striving for:

## Wellbeing

## Integrated catchment management

## Landscape scale planning

## Systems thinking

## Ecosystem-based management (EBM)

Perspective | Published: 13 May 2019

### Systems thinking for education about the molecular basis of sustainability

Peter G. Mahaffy, Stephen A. Matlin, Thomas A. Holme & Jennifer Mackellar

Nature Sustainability 2, 362–370(2019) | Cite this article  
887 Accesses | 25 Citations | 21 Altmetric | Metrics

#### Abstract

The primary activities of chemistry involve analysing, synthesizing and transforming matter, yet insufficient attention has been paid to the implications of those activities for human and environmental well-being. Since a core element of addressing sustainability challenges requires attention to the material basis of society, a new paradigm for the practice of chemistry is needed. Chemistry education, especially gateway post-secondary general chemistry courses, should be guided by an understanding of the molecular basis of sustainability. A Systems Thinking in Chemistry Education framework illustrates one way to integrate knowledge about the molecular world with the sustainability of Earth and societal systems.

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- Sections
- Figures
- References
- Abstract
- Main
- Chemistry practice and the molecular b...
- Reorientation of chemistry education to...
- Systems thinking and the molecular basi...
- References
- Acknowledgements
- Author information
- Ethics declarations
- Additional information
- Rights and permissions
- About this article
- Further reading

## Creating a healthy and productive Kaipara Harbour



PredatorFree Hawke's Bay

Nau mai haere mai, welcome to Predator Free Hawke's Bay

Whakaoranga Te Matau-a-Māui - Helping native species thrive where we live, work, and play in Hawke's Bay.

Working together, we are reducing pests one predator at a time and bringing native species back into the lives of Hawke's Bay communities. Predator Free Hawke's Bay is made up of three restoration projects that bring together community and landowner conservation efforts to enhance our native biodiversity



## More strategic connecting across policies and programmes

When research and management only focus on components of programmes the connections across places and world views become less visible, making holistic governance less likely.

The circulation of narratives of holistic governance helps to maintain the links and resources integrative efforts across Aotearoa NZ.

Le Heron, E. Le Heron, R. Logie, J. Greenaway, A. Allen, W. Blackett, P. Davies, K. Glavovic, B. and Hikuroa, D. (2020) Participatory Processes as 21st Century Social Knowledge Technology: Metaphors and Narratives at Work, in Probyn, E, Johnston K and Lee, N (eds) Sustaining the Seas: oceanic space and the politics of care, Rowan and Littlefield.





## Concepts and practices for holistic governance are not new

Everything in te ao mārama (the world of light and enlightenment within which we exist), including all ecosystems, are interconnected through whakapapa (ancestral connections) and whanaungatanga (kinship). Whanaungatanga is a wide web of relationships between people (living and dead), land, water, flora and fauna, and the spiritual world of atua (gods) which are all connected through whakapapa.

Harmsworth GR, Awatere S 2013. Indigenous Māori knowledge and perspectives of ecosystems. In Dymond JR ed. Ecosystem services in New Zealand – conditions and trends. Manaaki Whenua Press, Lincoln, New Zealand

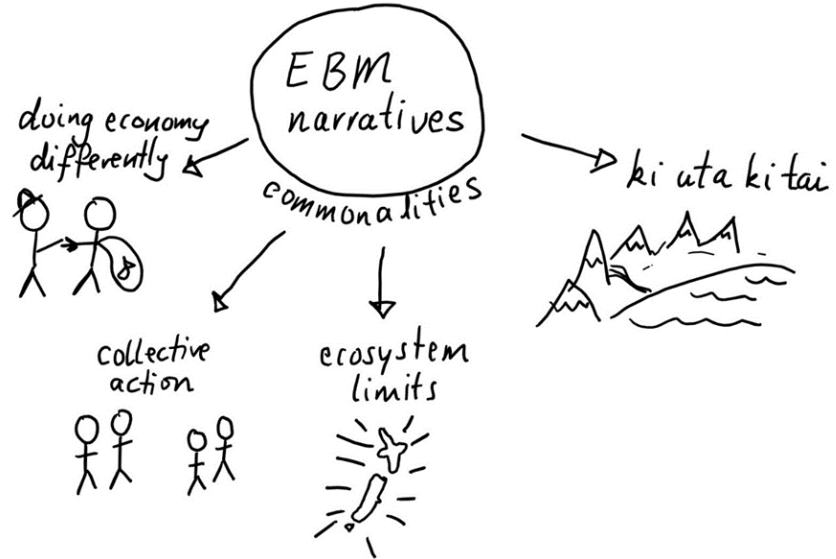




## Weaving narratives for holistic governance

In 2019 five multi-media resources were created and circulated through the Sustainable Seas National Science Challenge weaving narratives of ecosystem-based management with narratives of:

- ki uta ki tai
- doing economy differently
- ecosystem limits
- collective action



Le Heron, E., Le Heron, R., Taylor, L., Lundquist, C. and Greenaway, A. (2020) "Remaking ocean governance in Aotearoa New Zealand through boundary-crossing narratives about ecosystem-based management", Marine Policy, forthcoming.








# Multi-media resources

[www.sustainableseaschallenge.co.nz/EBMnarratives](http://www.sustainableseaschallenge.co.nz/EBMnarratives)

Social impacts of mission-led science include building and maintaining connections between knowledge, people, places and polices to enable system shifts.

So, we pay attention to the settings in which these resources are shared (or not) plus the relationships and conversations they support.

This is a revised version of the table in Le Heron, E., Le Heron, R., Taylor, L., Lundquist, C. and Greenaway, A. (2020) "Remaking ocean governance in Aotearoa New Zealand through boundary-crossing narratives about ecosystem-based management", Marine Policy, forthcoming.

Narrative Concept	Resource Format	Sample
<p><b>Care:</b> a human and non-human view of caring for a place</p>	<p>A short graphic novel that tells the intertwined story of Oi the petrel and a woman named Grace. Taking place over 15 years, it shows abundance returning to a bay through active and collective caring practices.</p>	
<p><b>Connect:</b> ki uta ki tai, thinking connectedly across spatial scales from mountains to sea</p>	<p>This detailed poster outlines examples of the many EBM-like initiatives occurring in Aotearoa NZ. It helps to think about connections between land and sea; between cultures and knowledge systems; and between policy and practice.</p>	
<p><b>Generate:</b> asks what might be possible in livelihoods and economy in marine space</p>	<p>A six min video featuring existing examples of Blue Economy at work in Aotearoa NZ. The industry initiatives are doing things differently and acting in EBM-like ways.</p>	
<p><b>Protect:</b> rāhui (temporary ritual prohibition), a hapū (subtribe) initiative to restore abundance</p>	<p>A six min video filmed at Maitai Bay in Northland details the hapū story of deciding to implement a rāhui on a local beach to protect and restore diversity in the water. The video is fronted by a member of the hapū and is told from their perspective.</p>	
<p><b>Share:</b> how can the ocean be shared? a view from the future</p>	<p>A five min video featuring a fisher person on a beach. Set 50 years in the future it reminisces about the changes of behaviour and attitudes required to effectively share the ocean.</p>	





# Steps towards holistic governance

Step away from definition



to shared principles

Step away from communications



to conversations

From targeted narratives	To narratives based on connections and relations	What this shift allowed
<i>E.g. for commercial fishers</i>	<i>E.g. sharing the ocean, targets a range of actors</i>	<i>Experimentation Resourcing conversations</i>
Definitions	Concepts that keep escaping codification	Enabling multiplicity of stories and wider agency
Target audiences	Conversations sharing different perspectives and experiences	Prioritising connections, relationality, and open opportunities
Individuals and organisations	Co-constitutive human and non-human actors and interactions	Reimagining and reworking identity and relational agency of those involved

This table is from Le Heron, E., Le Heron, R., Taylor, L., Lundquist, C. and Greenaway, A. (2020) "Remaking ocean governance in Aotearoa New Zealand through boundary-crossing narratives about ecosystem-based management", Marine Policy, forthcoming.

# Conversations enabling holistic governance

You'll find these resources useful for strategic work, shifting silos and fostering integrative initiatives.

- **Generating:** are your initiatives making visible the diverse ways of doing economy in Aotearoa New Zealand that already exist?
- **Caring:** How are opportunities for collective action and place based care being enabled or not through your proposed work?
- **Sharing:** is work across administrative boundaries being enabled or disrupted?
- **Connecting:** how does your work support connections of knowledge, policy and practice at various scales?
- **Protecting:** does your work recognise and support kaitiakitanga?



# Further work – Lara Taylor, Ngāti Tahu, Te Arawa, Ngāti Kahungunu

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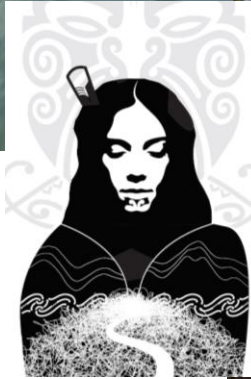
## Research Interests

- Philosophical change – reimagine, reframe, redefine ‘resource’ governance & management
- Recognise, enable & empower Māori as kaitiaki & Treaty partners
- Create a new policy and implementation space
- Integrated, precautionary, bicultural ‘First Principles’ approach

Taylor, L., Fenemor, A., Sayers, T A., O’Connor, M., Porou, T., Hikuroa, D., White, P. and Harcourt, N (pending publication). Ngā Puna Aroha: Towards an Indigenous-Centred Freshwater Allocation Framework for Aotearoa New Zealand. Australasian Journal of Freshwater Resources.

## Current work – Sustainable Seas – Project 4.3 Enabling kaitiakitanga & ecosystem-based management

- Deeper understanding of synergies, complementarities & divergencies between systems & processes
- Identify approaches supporting holistic management ki uta ki tai that allow diversity but preserve the integrity of both cultures & knowledges
- Develop a “toolkit”





## Discussion: how might you use these resources?

- **Generating:** are your initiatives making visible the diverse ways of doing economy in Aotearoa New Zealand that already exist?
- **Caring:** How are opportunities for collective action and place based care being enabled or not through your proposed work?
- **Sharing:** is work across administrative boundaries being enabled or disrupted?
- **Connecting:** how does your work support connections of knowledge, policy and practice at various scales?
- **Protecting:** does your work recognise and support kaitiakitanga?



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Thank you

# KARAKIA WHAKAMUTUNGA



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Landcare Research

Unuhia, unuhia  
Unuhia ki te uru tapu nui  
Kia wātea, kia māmā,  
te ngākau, te tinana,  
te wairua i te ara takatā  
Koia rā e Rongo,  
whakairia ake ki runga  
Kia tina  
Tina  
Haumie hui e taiki ee.

Draw on, draw on,  
Draw on the supreme sacredness  
To clear, to free the heart, the  
body and the spirit of mankind  
Rongo, suspended high above us  
Draw together!  
Affirm!