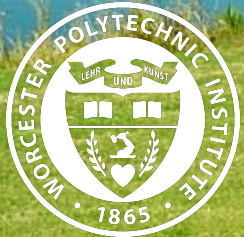


Exploring Governance Strategies to Restore New Zealand's Biological Heritage

Sponsor:
Dr. Maria Bargh
Victoria University of Wellington



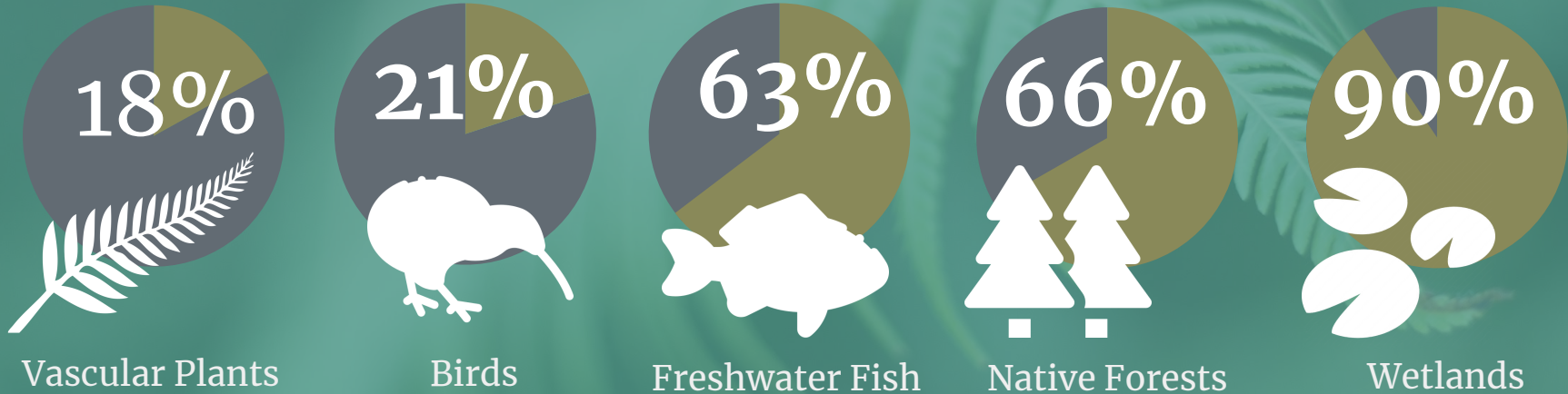
WPI

Joseph Coutcher
Colin Reynolds
Timothy Snow

Project Background



Since New Zealand's settlement,



are extinct, threatened, and/or declining

Partners & Relationships

TE TAIAO



Partners & Relationships

Treaty of Waitangi



1840 – New Zealand's
Founding Document



(Marcus King, The Signing of the
Treaty of Waitangi, 1938)

What is Our Research Focus?

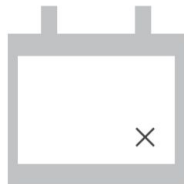
NEW ZEALAND'S
BIOLOGICAL
HERITAGE

Ngā Koiora
Tuku Iho



\$63.7m

**UP TO \$63.7 MILLION
FUNDING OVER 10 YEARS**



29/8/2014

**CHALLENGE
LAUNCHED**

What is Our Research Focus?



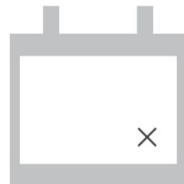
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NEW ZEALAND'S BIOLOGICAL HERITAGE

Ngā Koiora
Tuku Iho

Impact 1: Whakamana • Empower

New Zealanders value our biological heritage, understand how it is changing, and are inspired to take action to protect it

Strategic Outcome 1

We assess our progress using a biological heritage scorecard for Aotearoa

Strategic Outcome 2

We empower New Zealanders to demand and enact environmental stewardship and kaitiakitanga

Impact 2: Tiaki • Protect

New Zealand's biosecurity system is world class

Strategic Outcome 3

We anticipate both emerging & latent biosecurity risks, and avoid new or recurring invasions

Strategic Outcome 4

We have state-of-the-art biosecurity surveillance systems

Strategic Outcome 5

We deploy novel tools, technologies & strategies for control or eradication of biotic threats

Impact 3: Whakahou • Restore

New Zealand's natural and production ecosystems are resilient and thriving


Strategic Outcome 6

We quantify social-ecological linkages for use in managing, protecting and restoring land and water ecosystems

Strategic Outcome 7

We enable people to build biological heritage resilience with the right policy and governance instruments

Our Project



Evaluate Māori, Crown, and local governance models to investigate strategies that best restore Aotearoa's biological heritage in support of the National Science Challenges.



Research Approach



**Review of
Literature**



**Expert
Interviews**



**Case Study
Synthesis**

Mātauranga Māori

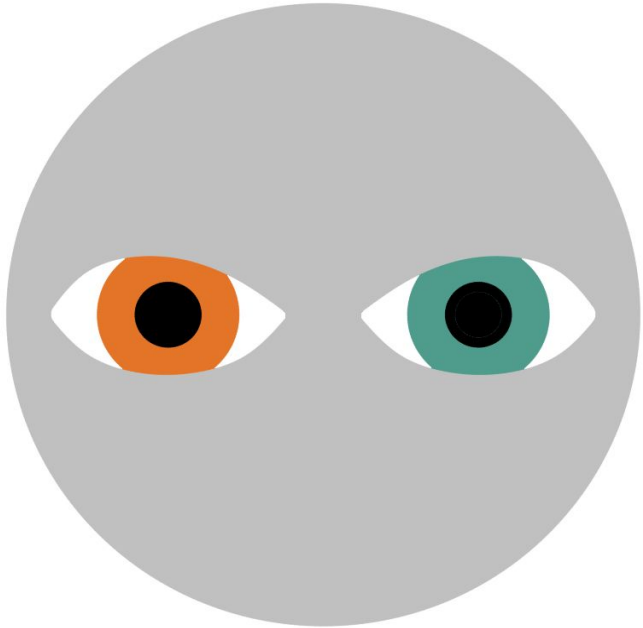


New Treaty, New Tradition



Tāne Mahuta

Two-Eyed Seeing



Decolonizing Methodologies



Etuaptmumk, Albert Marshall

Native Governance



*Inuit Food Sovereignty
and Self-Governance*



Treatment as State



Protected Land-Use

Expert Interviews

Dr. Carwyn Jones

Associate Professor

Faculty of Law

Victoria University of Wellington

Thomas Malcolm

*New Zealand's Biological
Heritage Challenge*

Puna Consultants

Dr. Nicolas Lewis

Associate Professor

School of Environment

University of Auckland

Dr. Billy van Uitregt

Lecturer

*School of Geography, Environmental
and Earth Science*

Victoria University of Wellington



“There's an Anishinaabe scholar who talked about a particular river in Toronto which used to be a full river, but has been built up over the top of and is now just a trickle of a stream, but every now and again, the river rises up and makes its presence felt again, [...] he compares that to **Indigenous law - it hasn't completely vanished.**”

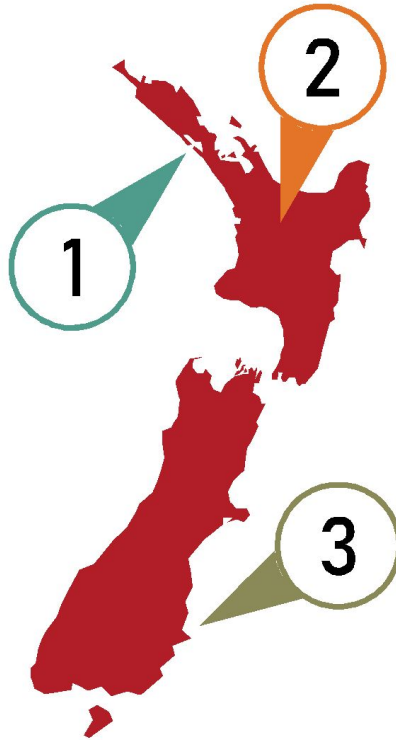
“When it comes to **environmental management**, strategies are like toothbrushes, **everyone's got one but no one wants to use anyone else's.**”



“I would argue that the more you tie an electoral cycle that asks for and desires change [...] into a rubric that doesn't allow for change, the more you get perverse outcomes. Having a governance rubric that is essentially connected back to self interest is not going to work with Māori into the future.”

Case Study Synthesis

Kaipara Harbor
co-governance of
natural resources



Waikato River
Treaty-based governance
of natural resources

**East Otago
Taiāpure**
tikanga-based governance

Kaipara Harbor

co-governance of natural resources

Strategies



Mātauranga

Outcomes



Engagement

Indicators



Species Statistics

Waikato River

Treaty-based governance of natural resources



Iwi-based



Funding



Water Quality

East Otago Taiāpure

tikanga-based governance



Legislation

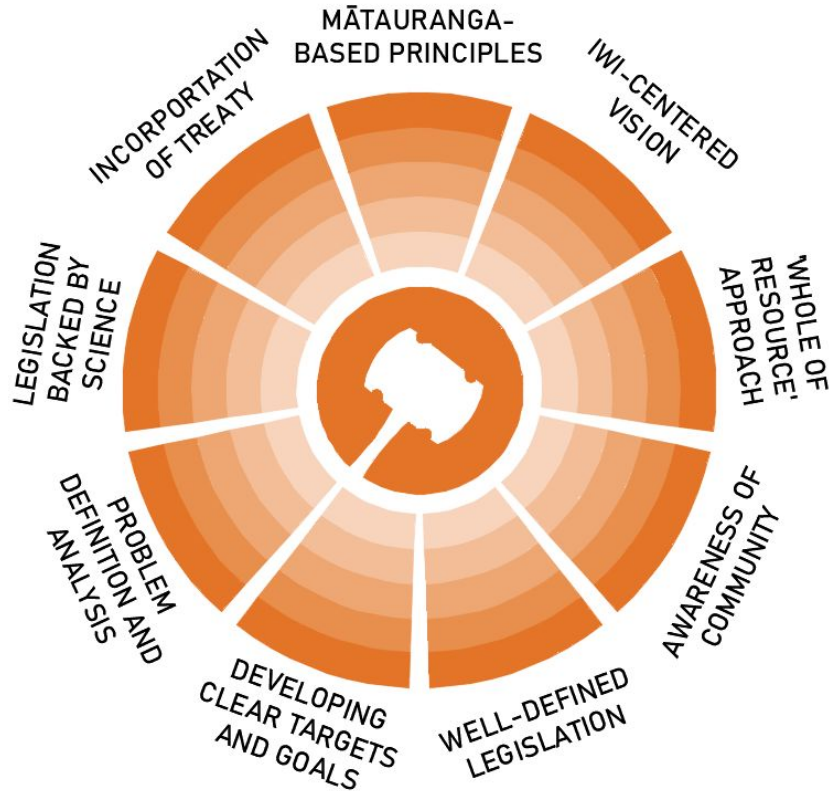


Pest Control

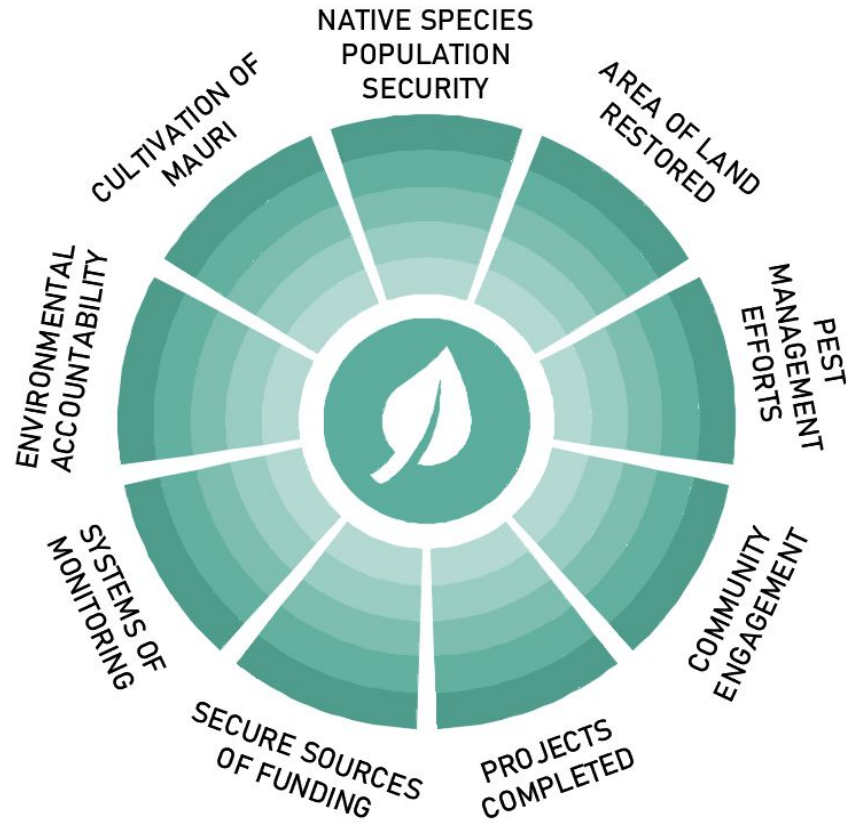


Knowledge Level

Effective Governance Patterns



Strategies



Outcomes



Indicators

Moving Forward



**Develop Sustainable
Solutions**



**Achieve Bioheritage
Outcomes**



**Foster Community
Relationships**



**Establish Strong,
Equal Governance**

Acknowledgements

Project Sponsor Dr. Maria Bargh - VUW

Project Advisors Prof. Ingrid Shockey and Prof. Fred J. Looft - WPI

Dr. Carwyn Jones of VUW

Mr. Thomas (Tame) Malcolm - New Zealand's Biological Heritage & Puna Consultants

Dr. Nicolas Lewis - UOA

Dr. Vincent (Billy) van Uitregt - VUW

Ms. Ellie Tapsell - VUW

Ms. Karen Coghlan - WPI

tēnā koutou! (thank you)

Thank You for Listening!

gr-BioHeritage@wpi.edu

NEW ZEALAND'S
BIOLOGICAL
HERITAGE

Ngā Koiora
Tuku Iho

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