

## Research Proposal Template: \*

\* **Note:** Proposal revised 19 January 2018 in response to feedback from Sustainable Seas National Science Challenge.

### A. PROJECT TITLE

Whai Rawa, Whai Mana, Whai Oranga: Creating a world-leading indigenous blue marine economy

### B. PROJECT TEAM

<p><b>Project Leaders:</b>  <i>Jason Paul Mika</i>            Massey University Manawatū            Private Bag 11 222            Palmerston North 4442            t: +64 6 951 9361            e: <a href="mailto:j.p.mika@massey.ac.nz">j.p.mika@massey.ac.nz</a></p> <p><i>John Reid</i>            Ngāi Tahu Research Centre,            Canterbury University            Private Bag 4800            Christchurch 8140            t: +64 3 3695525            e: <a href="mailto:john.reid@canterbury.ac.nz">john.reid@canterbury.ac.nz</a></p>	<p><b>Investigators:</b>  <i>Shaun Awatere</i>            Manaaki Whenua (Landcare Research)</p> <p><i>Fiona Wiremu</i>            Te Whare Wānanga o Awanuiārangi</p> <p><i>Annemarie Gillies</i>            Te Puna Hauora o Mataatua</p> <p><i>Daniel Hikuroa and Billie Lythberg</i>            University of Auckland</p> <p><i>Hekia Bodwitch</i>            Ngai Tahu Research Centre</p> <p><i>Mylene Rakena</i>            Waikato University</p>
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### C. ABSTRACT

The project 'Whai Rawa, Whai Mana, Whai Oranga' brings together a multidisciplinary team of Māori researchers embedded within, and connected across, Māori communities, commercial entities and tribal organisations. The overall goal of this project is to create a foundation for New Zealand to become a world-leading indigenous blue economy. This will be done through the identification and dissemination of strategies that support the economic development of Māori organisations that rely on marine ecosystems and the ecological development of these spaces. This project's specific aims are to: (1) identify policy and regulatory tools that foster marine ecosystem and economic management and also reflect Māori knowledge systems, values frameworks and operating principles; (2) develop kaitiaki business models that embed Māori commercial activity within sustainable ecosystem processes; (3) integrate kaitiaki business models with frameworks for the development of sustainability tracing and authentication systems that will capture premiums for Māori marine products.

Methodologically, the project involves three interrelated research stages corresponding to each research aim. Stage one involves a survey to identify Māori organisations that make up the Māori marine economy (MME). The survey will examine trends in the structure, strategies, and operating principles in relation to economic and ecosystem management of a Māori marine economy.

Stage two involves in-depth exploratory case studies of Māori authorities and commercial bodies representing nine different geographical and political economic contexts and scales across the marine economy and supply chain, including: pan-iwi, iwi, hapū, and whānau. Case study analyses will be conducted to understand how Māori organisations navigate tensions between commercial, customary, conservation, and kaitiaki imperatives. In particular, case study organisations will be asked how about the kinds of decisions they make, what information they rely on in decision-making and what barriers, issues and challenges to these organisations face and how they might be better supported.

Stage three involves the integration of survey and case study data to analyse existing mātauranga-derived models and how they approach integrating management of marine ecosystems and economies to create synergies between mātauranga and western scientific knowledge systems.

In stage four, the knowledge and frameworks developed through the project will be extended to organisations throughout the MME via online animated presentations, hui, and in-person presentations with key Māori leadership groups across the sector.

#### D. INTRODUCTION

Our theory, *Whai Rawa*, conceptualises Māori economies as contextually-specific networks of localised economies with wider national and international connections. These include independent Māori enterprises, whānau businesses, units within hapū or iwi structures, tribal incorporations and larger pan-tribal entities, in multiple, often interconnected resource sectors. The Māori marine economy (MME) involves diverse actors using a blend of traditional and contemporary practices in dynamic relationship with marine ecosystems. The MME is founded on a praxis (kaupapa Māori) concerned with: intergenerational transfer of wealth; supporting Māori identity; restoration of mauri; and flourishing tribal wellbeing.

Research shows that any initiatives to increase productivity or add value in the MME need to have 'cultural-match' with Māori institutions (knowledge systems, values, property rights and organisational structures) to be successful (Folke, Hahn, Olsson, & Norberg, 2005). Crucially, as well as ensuring greater profitability, these institutions are also designed to support healthy marine environments for future generations, as Māori knowledge systems and values frameworks emphasise sustainable resource management. Philosophically, the economic and ecological sustainability goals of Māori organisations are supported by understandings of the interconnectivity between humans and the environment. Practically, these goals manifest in a set of values-derived 'operating principles.' These principles include kaitiakitanga (an ethic of ecosystem care) and manaakitanga (an ethic of generosity) (Mika, 2014a; Chellie Spiller, Edwina Pio, Ljiljana Erakovic, & Manuka Henare, 2011). Māori institutions provide a template for profitable yet sustainable resource use (Awatere et al., 2017).

There is need for a transformational change in the governance of New Zealand's marine spaces that balances short term economic gains with long term ecological resilience. This new governing framework begins from the understanding that the long term development of financial capital is contingent on institutional support for the consecutive development of social and natural capital. Efforts to address this transformational change require collaborations between local governments, iwi, hapū, Māori and non-Māori communities, and corporate entities. In New Zealand and

elsewhere, multi-stakeholder collaborative efforts have led to the development of integrated approaches to marine governance, including ecosystem-based management (EBM) (Folke et al., 2005). EBM is a strategy for the integrated management of marine resources that considers the range of interactions that occur within an ecosystem and includes humans as part of this system (Crowder & Norse, 2008). However, EBM approaches have been found to inadequately represent indigenous values (G. Harmsworth & S. Awatere, 2013) as they are often geared against indigenous people and incompatible with indigenous world views (J Reid & M Rout, 2016). Beyond this, the wider institutional environment of modern states is also shown to be generally antagonistic to indigenous knowledge systems, values frameworks and operating principles.

Ngā Pae o te Māramatanga's (NPM) *Whai Rawa* team has supported this transformational change through the development of mātauranga Māori-attuned tools for the Māori economy (Awatere et al., 2017; Mika, 2014a, 2014b). Informed by our previous and ongoing research through NPM, in this project we will:

- a. Identify mātauranga-attuned models that reconcile tensions between imperatives and provide mechanisms for the integrated management of the marine ecosystem and economy;
- b. Create kaitiaki business models that embed Māori commercial activity within EBM such as sustainability tracing and authentication systems for Māori marine products; and
- c. Identify innovative Māori ideas, processes, and products in the MME and support the commercialisation of these innovations where appropriate, or their extension and adoption.

Overall, this project aims at a step-change in the way the MME, and the organisations within it, operate—creating a foundation for a world-leading indigenous blue economy.

## E. AIMS

Our research aims follow:

- a. Research Aim 1 (RA1): Establish a kaupapa Māori basis for the project and examine the structure, strategy, operations, interests, and value of the MME.
- b. Research Aim 2 (RA2): Examine existing models and frameworks of applied mātauranga Māori used in the integrated management of marine ecosystems and economy (e.g. Te Korowai o Te Tai o Marokura). Compare these models with EBM and status quo approaches to marine economic and environmental management to determine gaps, tensions and complementarities between structures. 'Status quo approaches' refers to current orthodox approaches used in the management of New Zealand's marine ecosystems (Bodwitch, 2017).
- c. Research Aim 3 (RA3): Drawing upon evidence from RA1 and RA2, establish kaitiaki-centred business models that embed Māori commercial activity within sustainable ecosystem processes; establish a framework for marine product sustainability and cultural authenticity assurance as a foundation for kaitiaki-centred marketing; and create pathways for the development of mātauranga-derived innovative products, service, and processes.

## F. PROPOSED RESEARCH

Our research approach will engender confidence among both knowledge holders and those actively engaged in day-to-day activities within the MME by utilising a kaupapa Māori research approach. A kaupapa Māori approach is one that affirms and validates the rights of Indigenous peoples to access and use world view, language and culture in a daily way and in any and every context, which provides a foundation from which Indigenous researchers and academics can locate themselves and their own understandings (L. T. Smith, 1999). The research will be undertaken with three

overlapping stages, to address the research aims. These stages are detailed below with their methods and approaches.

### Research Aim 1

Identify and describe MME actors.

We will:

- a. Establish a Mātauranga Māori Expert Advisory Group to provide support and expert advice on mātauranga Māori and the relevance of the research for Māori institutions and to facilitate the delivery of co-designed tools to Māori stakeholder organisations. The advice from this group will be in addition to feedback provided by iwi, hapū, and whānau partners in the case studies. The following experts have agreed to be inaugural members of the Mātauranga Māori Expert Advisory Group, with scope to co-opt others as needed and appropriate:
  - Distinguished Professor Hirini Moko Mead;
  - Distinguished Professor Graham Hingangaroa Smith; and
  - Judge Layne Harvey.

We have identified a range of possible candidates to approach who have applied mātauranga Māori expertise and commercial and economic expertise.

- b. Complete a research ethics process through Massey University as host institution that establishes operating protocols for all stages of the research, including intellectual property agreements with Māori for each case study and the survey;
- c. Identify and examine the key actors (Māori entrepreneurs, Māori asset-holding enterprises, iwi and hapū authorities, co-governance/co-management entities) within the MME, assessing the structure, strategy, operations, interests and values of these organisations in relation to the sustainable management of the marine estate. This will be achieved through systematic analysis of published information, including annual reports, of the respective organisations;
- d. Conduct an online survey of Māori enterprises across the MME, including tribal enterprises, fishers, processors, transporters, exporters, and suppliers, to define features of the MME and the tangible and intangible assets and values. A sample of up to 50 Māori organisations will be identified and included in the survey.

### Research Aim 2

Examination of existing models and frameworks of applied mātauranga Māori.

We will:

- a. Review existing literature explicating the principles and values used by contemporary Māori organisations in the management of ecosystems, economies and enterprises, including: Spiller et al. (2010); Spiller et al. (2011); Henry (1997, 2007); Durie (2003); Hēnare (2001, 2011); Harmsworth and Awatere (2013); Harmsworth, Barclay-Kerr, and Reedy (2002); Reid and Rout (2016); Reid, Barr and Lambert (2013); Mika and O’Sullivan (2014), G. H. Smith, Tinirau, Gillies, and Warriner (2015); Kawharu (2004, 2014); Kawharu, Tapsell and Woods (2012); Bargh (2012); and Awatere et al. (2017).
- b. Review frameworks developed by Sustainable Seas projects to date including Project 2.1.2 Mauri Moana Mauri Tangata Mauri Ora; 3.1.1 Hui-te-ana-nui; 3.3.1 Tūhonohono: Māori lore and New Zealand law; Vision Mātauranga International comparative study: incorporation of indigenous approaches to guardianship and stewardship.

- c. Review of international indigenous frameworks used for sustainable economic and ecological managements of marine estates.
- d. Complete five case studies of Māori organisations of different scales and roles within the MME for evidence of integration of mātauranga Māori and kaitiaki management of marine resources. The case studies will analyse the organisations' publically available information followed by semi-formal interviews with key-expert informants within each organisation. The result is a 'rich picture' of current approaches employed by Māori organisations in the management of marine ecosystems and their commercial practices. We have approached the following organisations as potential case study partners based on existing relationships, with those indicating agreement in principle noted with an astrisk (\*). The case studies, their scale, and stakeholder roles, will be selected from among the following:

#### Pan-iwi organisations

- Aotearoa Fisheries Limited—operating at the pan-iwi scale, with a primarily commercial orientation, though with customary and sustainable management elements;
- Iwi Collective Partnership—a collective of 14 iwi operating as a limited partnership working together for the commercial, social and cultural benefit of their iwi;\*
- Moana New Zealand—a subsidiary of Aotearoa Fisheries Limited, involved in the harvest of finfish, pāua, lobster and oysters.

#### Iwi and hapū organisations

- Te Rūnanga o Ngāi Tahu—operating at the iwi scale and concerned with kaitiaki management of marine ecosystems, customary operations, and commercial enterprise;\*
- Te Rūnanga o Kaikoura—operating at the hapū scale concerning kaitiaki management of marine ecosystems and customary operations;
- Whakatōhea Māori Trust Board—a case study of the iwi's long term investment in the development of an offshore marine farm in the Bay of Plenty;
- Wairoa Taiwhenua—a case study of hapū- and whānau-level management and use of quota within this Ngāti Kahungunu organisation.\*

#### Whānau organisations

- Tītī Harvesters—operating at the whānau scale concerning customary and commercial tītī harvesting operations. This case study draws upon existing relationships within the Ngā Pae o te Māramatanga funded project, 'Frameworks for Hapū and Iwi Development' (16RF09), which has engaged 20 whānau to explore the tītī harvesting economy (see section H of this proposal);\*
- Orohaki Eels Limited—whānau-owned export company operating at the owner-operator scale.

#### Entrepreneurial firms

- Aotearoa Surf Clams NZ Limited—a start-up enterprise set to trial surf clam harvesting along the West Coast between Foxton and Whanganui using Māori quota.\*

- e. Critically compare the case study Māori organisations' marine resource management approaches with EBM frameworks, Indigenous frameworks internationally, and status quo approaches used in New Zealand. We anticipate that this analysis may reveal:

- Any tensions, trade-offs, or complementarities between mātauranga Māori approaches to the management of marine economies and ecosystems, EBM, indigenous approaches internationally, and status quo approaches;
- Any trade-offs between mātauranga Māori and market drivers within the MME; and
- Any institutional and structural constraints on the implementation of mātauranga Māori-based values and aspirations.

### Research Aim 3

The identification and development of holistic kaitiaki-centred models for business operations; establishing processes for creating high-value marine products through assuring product cultural authenticity and sustainability; and capturing mātauranga innovation opportunities.

We will:

- Identify innovations in marine related business structures, models and processes for managing commercial, customary, and sustainable resource utilisation imperatives drawing upon the insights from RA1 and RA2. Such insights offer the prospect of a revolution in kaitiaki-managed sustainable ecosystem processes, which can be extended internationally and across other economies and industries. Furthermore, such models provide a foundation for Māori leadership, ownership and participation in a growing blue economy.
- Map supply chains across the MME and identify high-level principles for cultural authenticity and sustainability, and marketing and provenancing opportunities for Māori businesses. Our aim is to identify a framework for Māori enterprises to provide their customers with assurance of cultural authenticity, sustainability and provenance in marine-based products. This work will draw upon the survey work in RA1 and case studies in RA2. This work will also contribute to the development of supply chain governance structures for marine products.
- Identify mātauranga-derived innovative products, services, and processes that support a sustainable MME from the survey in RA1 and case study work in RA2. With the permission of the cultural and intellectual property rights owner, such innovative products, processes or services that generate public good and lead to improved management of the marine economy and ecosystem will be extended to other end-users of this research, namely, Māori organisations, enterprises communities, and governing tribal institutions. In other cases, innovators and entrepreneurs will be directed toward the appropriate support providers to enable commercialisation.
- Share information, knowledge and insights about holistic business models, sustainability governance and tracing models, and innovations with end-users through the following processes:
  - Online accessible animated presentations;
  - Hui and wānanga with iwi/hapū, Māori asset holding enterprises, co-governance/co-management entities, individual entrepreneurs, scientists, and other stakeholders within the MME; and
  - Presentations across a network of key Māori and non-Māori leaders and stakeholders in the MME, including relevant national and international conferences.

## G. RESEARCH ROLES

Researchers	Organisation	Contribution
Dr Jason Paul Mika	Massey University	Principle Investigator
Dr John Reid	Canterbury University	Principle Investigator
Dr Shaun Awatere	Manaaki Whenua	Associate Investigator

Dr Daniel Hikuroa	University of Auckland	Associate Investigator
Dr Annemarie Gillies	Te Puna Ora o Mataatua	Associate Investigator
Dr Hekia Bodwitch	Canterbury University	Associate Investigator
Dr Billie Lythberg	University of Auckland	Associate Investigator
Ms Fiona Wiremu	Te Whare Wānanga o Awanuiārangi	Associate Investigator
Mrs Mylene Rakena	Waikato University	Associate Investigator

## H. LINKAGES AND DEPENDENCIES

This project draws upon the experience and leadership of a NPM *Whai Rawa* team that is creating innovative solutions for the Māori economy grounded in mātauranga Māori. Specifically, the project draws upon the learnings from three NPM Foundational projects:

- a. Persisting inequalities and the potential for intervention through “new” governance models (16 RF06). This research explores two critical sites where there is potential to change outcomes of persisting inequality and the role of governance, frameworks and models in effecting positive outcomes;
- b. The intergenerational reality for Māori small and medium enterprises (SME): Building resilience of Māori SMEs for the future (16RF08); and
- c. Identifying frameworks for effective iwi and hapū development (16RF09).

Within the Sustainable Seas Challenge, this project is dependent on, and will provide input into, a number of projects. It will be guided by the cross-cutting Vision Mātauranga and EBM programmes, and contribute to their leadership, while our work on the MME will contribute to P: 2.2.1 (Blue economy). Our work will also be informed by the reviews produced by the challenge including:

- a. P 2.1.2 Mauri Moana Mauri Tangata Mauri Ora (Indigenous values and Marine Ecosystem Management report and Mātauranga Māori and the Marine Environment report);
- b. P 3.1.1 Hui-te-ana-nui (Desktop review of Māori perspectives of the Marine Environment);
- c. P 3.3.1 Tūhonohono: Tikanga Māori me te Ture Pākehā ki Takutai Moana (mini-literature review of tikanga and mātauranga Māori pertaining to the marine environment);
- d. VM 2.1 International comparative study: incorporation of indigenous approaches to guardianship and stewardship (Journal Article and Literature review on Canadian examples of integration of traditional knowledge systems and practices within an EBM framework);
- e. P 2.2.1 Blue Economy (Best practice in the blue economy review); and
- f. CP 1.1 EBM within existing legislative frameworks (Desktop review on EBM within existing legislative frameworks).

Our *Whai Rawa* expertise and leadership can also be leveraged by the challenge specifically by P 2.2.1 through:

- a. Wānanga on how mātauranga Māori informs the parameters of the model building for integrating diverse mappings of the marine economy;
- b. Contributing to wānanga on planning for the field testing a blue economy model; and
- c. Contributing to wānanga on the validation of blue economy management tools.

Our kaupapa Māori research experts are also keen to contribute to Project CP 2.1 through wānanga by providing insights based on our work on the institutional arrangements from a kaupapa Māori perspective (values, structures, and property rights regimes) to help inform the implementation of a marine management framework that is informed by kaupapa Māori principles such as kaitiakitanga and manaakitanga, alongside EBM. Our team can also be leveraged to participate in challenge wide Vision Mātauranga initiatives as well as contribute to its leadership.

## I. RISK AND MITIGATION

We identify the following risks to success and mitigation measures:



Risks	Mitigation
Case study participants withdraw	We will select case study participants based on their fit with the research purpose and scope and existing relationships with team members. We will engage case study organisations as research partners rather than participants, modifying our roles as co-creators of knowledge in a reciprocal exchange of information, knowledge and capability. We will focus on building strong and open relationships with case study partners, establishing clear expectations and processes for dealing with any concerns, acknowledge successes, and sharing results.
Team members become unavailable	We will complete the research in teams with shared responsibility for fulfilling the research aims to ensure adequate cover for short term absences. As NPM <i>Whai Rawa</i> researchers, we are able to draw on a network of high calibre researchers who could be called upon in cases of longer term unexpected absences. Moreover, we are also able to go to the wider network of 21 affiliated NPM partner institutions for support.
Science uptake and impact is limited	We will identify and engage with case study research partners to provide feedback and advice on the utility, relevance, strengths and weaknesses of research outputs and how they might be adapted and improved for end-users. We will also consult the Mātauranga Māori Expert Advisory Group on the cultural dimension and relevance of the research for whānau, hapū, iwi and Māori.
Funding shortfalls	The project leaders will closely monitor project delivery, project expenditure and funding, and will be supported in this by a project administrator.

## J. ALIGNED FUNDING AND CO-FUNDING

See section H for examples of projects with aligned funding.

## K. VISION MĀTAURANGA (VM)

This research will advance Vision Mātauranga’s mission “to unlock the innovation potential of Māori knowledge, resources and people to assist New Zealanders to create a better future” by contributing to VM’s four themes:

- a. Indigenous Innovation by enhancing economic growth through the creation of distinctive, high value marine products that leverage cultural authenticity to achieve price premiums in both domestic and international markets;
- b. Taiao by: (i) working in partnership with iwi/hapū and communities to fulfil their role as kaitiaki by developing their capability to restore taonga species (marine) and the mauri (life-force) of their moana; (ii) providing co-designed planning tools to support mauri restoration and enhancement priorities; and, (iii) delivering means for iwi, hapū and whānau enterprises to increase margins on products, making lower yields more profitable;
- c. Hauora/Oranga by: (i) providing means for Māori communities to increase both financial and social capital through the MME; (ii) helping Māori communities reconnect with their traditional knowledge systems and the oceanic ecosystem in meaningful and practical ways that are mutually-beneficial; and (iii) reinforcing the benefits of mātauranga Māori in the modern world to Māori communities;
- d. Mātauranga by embedding ecosystem-based management within a mātauranga Māori framework and providing tangible ways in which this merger can result in increased profitability and innovative development across the MME sector.



We will work closely with our iwi and hapū partners to develop and test the holistic kaitiaki-centred models for business operations and to establish the necessary processes for creating high-value marine products through cultural authenticity. We aim to harness the potential of mātauranga Māori to provide business models and cultural provenance methods that will empower Māori communities to increase financial, social and natural capital synergistically, connecting communities, businesses and resources in positive, powerful networks.

#### L. CONSENTS AND APPROVAL

No marine consents are required, but ethics approval will be sought through Massey University to ensure the research is conducted in accordance with an established ethical research code. A full ethics application is likely given the scale of the project, the diverse nature of the participants, the use of multiple methods and a multi-site, multidisciplinary team. The research team is fully familiar with ethics application processes and this will be sought at the earliest stage of the research.

#### M. OUTPUTS AND TIMETABLE

<b>Project Name:</b> Whai Rawa, Whai Mana, Whai Oranga—Capturing the Māori Marine Economy	
<b>Project Leader:</b> Dr Jason Mika	
<b>Milestones and Outputs</b>	<b>Delivery date</b>
<b>Milestones 1</b>	
Milestone 1.1 Establish and meet with Mātauranga Māori Expert Advisory Group, and formulate detailed project plan and processes.	15/02/18
Milestone 1.2 Complete research ethics process.	30/02/18
Milestone 1.3 Complete survey design and identify survey participants.	28/04/18
Milestone 1.4 Conduct the survey, including follow-ups.	30/06/18
Milestone 1.4 Complete analysis of data and map organisations in the MME, determining their value, structure, strategies, and operating principles in relation to economic and ecosystem management.	30/08/18
<b>Output 1:</b> Mapping report of MME complete.	30/09/18
<b>Milestones 2</b>	
Milestone 2.1 Review literature on indigenous and Māori management of ecosystems and economies, and Sustainable Seas projects to date.	30/04/18
Milestone 2.2 Begin case study engagement.	30/07/18
Milestone 2.3 Review of organisational policies, plans, and strategies for each case study complete.	30/06/18
Milestone 2.4 Key expert-informant interviews and transcripts complete.	30/07/18
Milestone 2.5 Data examination to identify mātauranga Māori-based models, or approaches used to support the integrated management of marine ecosystems and economy complete.	30/08/18
<b>Output 2:</b> Report outlining mātauranga Māori-based models, or approaches used by Māori organisations to support the integrated management of marine ecosystems and economy complete.	20/12/18
<b>Milestones 3</b>	

Milestone 3.1 Kaitiaki-centred business models that embed Māori commercial activity within sustainable ecosystem processes developed and complete.	31/03/19
Milestone 3.2 Frameworks for the development of sustainability tracing and authentication systems that will capture premiums for Māori marine products complete.	30/04/19
Milestone 3.3 Māori innovations in the MME identified.	30/05/19
<b>Output 3:</b> Report outlining business models, sustainability tracing and authentication systems, and innovations complete.	30/06/19
<b>Milestones 4</b>	
Milestone 4.1 Online animated presentations complete.	30/06/19
Milestone 4.2 Hui and wānanga with iwi/hapū, Māori asset holding enterprises, co-governance/co-management entities, individual entrepreneurs, and other stakeholders within the MME complete.	30/06/19
Milestone 4.3 Presentations across a network of key Māori and non-Māori leaders and stakeholders in the MME.	30/06/19

## N. BUDGET

	Year 1*		Year 2	
<b>Personnel Costs (giving names):</b>	<b>BUDGET</b>	<b>FTE</b>	<b>BUDGET</b>	<b>FTE</b>
Project Leader:				
Dr Jason Paul Mika	54,536	0.25	28,085	0.125
Dr John Reid	42,400	0.20	21,836	0.10
Project administrator	13,424	0.125	6,914	0.0625
Investigator(s):				
Dr Hekia Bodwitch	21,200	0.10	10,918	0.05
Dr Daniel Hikuroa	23,320	0.10	12,010	0.05
Dr Billie Lythberg	23,320	0.10	12,010	0.05
Mrs Mylene Rakena	21,000	0.10	10,815	0.05
Dr Annemarie Gillies	25,000	0.10	12,500	0.05
Dr Shaun Awatere	22,000	0.10	11,000	0.05
Ms Fiona Wiremu	22,000	0.10	11,000	0.05
Casual staff	5,428		5,428	
**Postgraduate student(s): (includes \$500 thesis costs, year 2)				
To be confirmed (masters)	15,000	1.00	8,000.00	0.50
Total Personnel Cost (a)	288,628		150,516	
<b>Operating Costs: (listed)</b>				
Publication costs	-		10,000	
Computing costs	400		200	
Domestic travel	10,000		3,750	
International travel	-		1,500	
Accommodation	7,500		2,000	

Conference fees	2,000		2,500	
Hui catering (3 x 2 day hui)	2,000		1,000	
Contract services (6 case studies @ \$3k each)	12,000		6,000	
computer rental for masters student	650		325	
Total Operating Costs (b)	34,050		26,775	
Sub Total (a)+(b)	322,678		177,292	499,970
G.S.T at 15%	48,402		26,594	74,996
Totals	371,080		203,885	574,966

## P. REFERENCES

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- Mika, J. P. (2014a). Manaakitanga: Is generosity killing Māori enterprises? In P. Davidsson (Ed.), *Proceedings of the Australian Centre for Entrepreneurship Research Exchange Conference 4-7 February 2014, UNSW, Sydney, Australia* (pp. 815-829). Brisbane, Australia: Queensland University of Technology.
- Mika, J. P. (2014b). *The role of culture in Māori international business and trade*. Paper presented at the ANZAM Annual Conference, UTS, Sydney, Australia, 4-6 December 2014.
- Mika, J. P., & O'Sullivan, J. G. (2014). A Māori approach to management: Contrasting traditional and modern Māori management practices in Aotearoa New Zealand. *Journal of Management & Organisation*, 20(5), 648-670. doi:10.1017/jmo.2014.48
- Reid, J., Barr, T., & Lambert, S. (2013). *Indigenous sustainability indicators for Māori farming and fishing enterprises*. Christchurch, New Zealand: Ngāi Tahu Research Centre, University of Canterbury.
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- Reid, J., & Rout, M. (2016). Māori tribal economy: Rethinking the original economic institutions. In T. L. Anderson (Ed.), *Unlocking the wealth of tribal nations* (pp. 84-103). Lanham, MD: Lexington Books.
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- Smith, L. T. (1999). *Decolonizing methodologies: Research and indigenous peoples* (First ed.). London, UK: Zed Books.
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## Q. CURRICULUM VITA

### PART 1

1a. Personal details				
<b>Full name</b>	<i>Title</i>	<i>First name</i>	<i>Second name(s)</i>	<i>Family name</i>
	Dr	Jason	Paul	Mika
<b>Present position</b>	Senior Lecturer/Co-director Te Au Rangahau			
<b>Organisation/Employer</b>	School of Management, Massey University			
<b>Contact Address</b>	Private Bag 11222 Palmerston North			
			<b>Post code</b>	4442
<b>Work telephone</b>	069519361	<b>Mobile</b>	021970421	
<b>Email</b>	<a href="mailto:j.p.mika@massey.ac.nz">j.p.mika@massey.ac.nz</a>			
<b>Personal website (if applicable)</b>	<a href="https://www.linkedin.com/nhome/">https://www.linkedin.com/nhome/</a>			

### 1b. Academic qualifications

2015	PhD, Business, Massey University
2002	MPP, Victoria University
1997	BMS, University of Waikato

### 1c. Professional positions held

2016–	Senior Lecturer, School of Management, Massey University
2015–2016	Manager, Management Consultants, Glenn Hawkins & Associates Ltd
2015–2015	Callaghan Innovation, Māori Relationship Manager
2014–2015	Supernumerary Lecturer, School of Management
2012–2014	Senior Tutor, School of Management
2013–2014	Motu Intern, Poutama Trust
2013–2014	Management Consultant, Glenn Hawkins & Associates Ltd
2002–2011	Management Consultant, self-employed
1998–2002	Senior Policy Analyst, Te Puni Kōkiri
1996–1998	Policy Analyst, Te Puni Kōkiri
1994–1996	Project Officer/Bursar, Inland Revenue
1993–1994	Research Assistant, Waiariki Polytechnic

### 1d. Present research/professional speciality

Senior Lecturer, School of Management

### 1e. Total years research experience

6 years

### 1f. Professional distinctions and memberships (including honours, prizes, scholarships, boards or governance roles, etc)

#### Directorships

- 2016–ongoing—Te Au Rangahau Māori Business & Leadership Centre, director
- 2016–ongoing—Tiritia School Board of Trustees, trustee and whānau representative

#### Memberships

- 2016–ongoing—Small Enterprise Association of Australia and New Zealand, member
- 2016–ongoing—International Council of Small Business, member

2016–ongoing—Te Au Pakihi Manawatū Māori Business Network – stakeholder committee  
 2016–ongoing—School of Management Research Committee, member  
 2013–ongoing—ANZAM Indigenous Issues Special Interest Group, member  
 2013–2014—ANZAM New Zealand doctoral student representative  
 2011–ongoing—Australian and New Zealand Academy of Management (ANZAM), member

### Prizes and awards

2013 Finalist, 3 Minute Thesis speech competition, Massey University  
 2012 Best Doctoral Research Proposal, ANZAM Doctoral Workshop, Perth  
 2012 Best Paper in CMS Stream, ANZAM Conference, Perth

### Scholarships

2013 Massey University Māori Doctoral Student Scholarship  
 2012 John Rangihau Memorial Scholarship, Tūhoe Waikaremoana Trust Board  
 2008 Māori Business Scholarship, Te Ohu Kaimoana  
 1994 Te Tari Taake (Inland Revenue) Scholarship for Māori  
 1994 Ministry for the Environment Scholarship for Māori  
 1992 Top Management Graduate Award, Waiāriki Polytechnic

### Reviewer

2017 Academy of Management Conference reviewer  
 2016 ANZAM Conference paper reviewer  
 2016 Anatolia Journal reviewer  
 2014 Journal of Management & Organisation (JMO), reviewer  
 2013 Journal of Small Business Management (JBSM), reviewer

<b>1g. Total number of peer reviewed publications and patents</b>	Journal articles	Books, book chapters, books edited	Conference proceedings	Patents
	3	3	16	0

## PART 2

### 2a. Research publications and dissemination

#### Peer-reviewed journal articles

**Mika, J. P.**, & O'Sullivan, J. G. (2014). A Māori approach to management: Contrasting traditional and modern Māori management practices in Aotearoa New Zealand. *Journal of Management & Organisation*, 20(5), 648-670. doi: 10.1017/jmo.2014.48

**Mika, J. P.** (2013). What is the role of enterprise assistance in Māori entrepreneurship? A doctoral study of Māori entrepreneurs of Aotearoa New Zealand. *Meiji Business Review*, 60(4), 137-159.

**Mika, J. P.** (2003). Māori capacity-building: Shifting the policy settings toward Māori independence. *Public Sector*, 26(1), 13-18.

#### Peer reviewed books, book chapters, books edited

**Mika, J. P.** (2016). The role of elders in indigenous economic development: The case of kaumātua in Māori enterprises of Aotearoa New Zealand. In K. Iankova & A. Hassan (Eds.), *Indigenous people and economic development: An international perspective* (pp. 151-176). London, UK: Gower.

**Mika, J. P.** (In press). Indigeneity and management consulting in Aotearoa New Zealand. In G. Manville, O. Matthias, & J. Campbell (Eds.), *Management consultancy insights and real consultancy projects*. Abingdon, UK: Gower.



**Mika, J. P. (2013).** *Tūtara Kauika: A brief history of the Tūhoe Fisheries Charitable Trust*. Tāneatua, New Zealand: Tūhoe Fisheries Charitable Trust.

Refereed conference proceedings

Dell, K. M., **Mika, J. P.**, & Warren, L. (2017). *Indigenous entrepreneurial ecosystems: A New Zealand perspective*. Paper presented at the Academy of Management, 4-8 August 2017, Atlanta, Georgia.

**Mika, J. P.**, Bensemman, J., & Fahey, N. (2016). *What is a Māori business: A study in the identity of indigenous enterprise*. Paper presented at the ANZAM Annual Conference, 5-7 December 2016, QUT, Brisbane, Australia.

**Mika, J. P. (2016).** *The role of publicly funded enterprise assistance in Aotearoa New Zealand*. Paper presented at the International Indigenous Research Conference, 14-17 November 2016, University of Auckland.

Awatere, S., Hudson, M., **Mika, J. P.**, Pauling, C., Lambert, S., & Clarke, L. (2016). *Whakatipu rawa mā ngā uri whakatipu: Optimising the 'Māori' in Māori economic development*. Paper presented at the International Indigenous Research Conference, 14-17 November 2016, University of Auckland, Auckland, New Zealand.

**Mika, J. P. (2016).** *The indigenous entrepreneurs' dilemma: Balancing cultural and commercial imperatives in business*. Paper presented at the Exploring Cultural Perceptions of Money, 10-11 October 2016, Westpac, Takutai Square, Auckland.

**Mika, J. P.**, & Ross, B. M. (2015). *Indigenous business and trade: Different cultures, same issues*. Paper presented at the International Academy of Business and Public Administration Disciplines (IABPAD), 22-25 July 2015, Pacific Gateway Hotel, Vancouver, Canada.

**Mika, J. P. (2014).** *The role of culture in Māori international business and trade*. Paper presented at the ANZAM Annual Conference, UTS, Sydney, Australia, 4-6 December 2014.

**Mika, J. P. (2014).** *Māori management: A home-grown approach to managing sustainably in Aotearoa New Zealand*. Paper presented at the College of Business Translation Competition, 6 November 2014, Palmerston North, New Zealand.

**Mika, J. P. (2014).** Manaakitanga: Is generosity killing Māori enterprises? In P. Davidsson (Ed.), *Proceedings of the Australian Centre for Entrepreneurship Research Exchange Conference 4-7 February 2014, UNSW, Sydney, Australia* (pp. 815-829). Brisbane, Australia: Queensland University of Technology.

Haar, J. M., Roche, M. A., Brougham, D., Barney, A., **Mika, J. P.**, & Palmer, F. R. (2014). *The benefits of Māori leadership in the development of positive leadership universally: A twofold investigation*. Paper presented at the 3rd New Zealand Industrial/Organisational Psychology Conference, 11 December 2014, Massey University (Albany).

**Mika, J. P.**, & O'Sullivan, J. G. (2012). *A Māori approach to management: Contrasting traditional and modern Māori management practices in Aotearoa New Zealand*. Paper presented at the ANZAM Conference, 3-6 December 2012, Perth, Western Australia.

**Mika, J. P. (2012).** *Submission for ANZAM Best Doctoral Dissertation Proposal Award*. Paper presented at the ANZAM Annual Conference, 3-7 December 2012, Perth, Australia.

O'Sullivan, J. G., & **Mika, J. P. (2012).** Encouraging Māori participation in management education in Aotearoa New Zealand: Why it matters and how it can be achieved? *New Zealand Applied Business Education Conference: Conference proceedings, 1-3 October 2012*. Hamilton, New Zealand: Waikato Institute of Technology.

Tinirau, R. S., & **Mika, J. P. (2012).** Pinepine te kura: Nurturing Māori values and customs in business. *International Council of Small Business World Conference, 10-14 June 2012, jointly hosted by Massey University and Small Enterprise Association of Australia and New Zealand* [Oral presentation and slides]. Michael Fowler Centre, Wellington, New Zealand: Massey University, School of Management.

<p><b>Mika, J. P. (2012).</b> <i>What is the role of enterprise assistance in Māori entrepreneurship?</i> Paper presented at the Doctoral Workshop, International Council of Small Business World Conference, 10 June 2012, Wellington, New Zealand.</p> <p>Bean, D., &amp; <b>Mika, J. P. (2009).</b> <i>Engaging Taitamariki in Learning Strategy: A Case Study, 17 March 2009.</i> Paper presented at the Conferenz Policy Evolutions Conference, Wellington, New Zealand.</p>
Patents
Nil
Other forms of dissemination (reports for clients, technical reports, popular press, etc)
<p>Smith, G. H., Gillies, A., Wiremu, F., <b>Mika, J. P.</b>, &amp; Puketapu-Watson, J. H. (2017). <i>Tairāwhiti Māori economic development report: Critical analysis and strategic options.</i> Gisborne, New Zealand: Kimihia He Oranga.</p> <p>Bishara, S., Selwyn, K., Kiwi-Scally, T., Hudson, H., &amp; <b>Mika, J. P. (2017).</b> <i>Rukuhia te wāhi ngaro, hei maunga tātai whetū - developing productivity, innovation and growth: Final report.</i> Auckland, New Zealand: Callaghan Innovation.</p> <p><b>Mika, J. P.</b>, Bishara, S., Kiwi-Scally, T., Taurau, M., &amp; Dickson, I. (2016). <i>Te pae tawhiti: Manawatū-Whanganui Māori economic development strategy 2016 - 2040.</i> Bulls, New Zealand: Te Rūnga o Ngā Wairiki-Ngāti Apa.</p> <p><b>Mika, J. P.</b>, &amp; Hape, H. C. (2016). <i>Kāhui kaumātua me te mātauranga Māori: The role of traditional knowledge in Māori innovation, entrepreneurship and business.</i> Wellington, New Zealand: Te Puni Kōkiri.</p> <p><b>Mika, J. P. (2016).</b> <i>A thinkpiece on accelerating Māori enterprise development: Kia eke ōhanga.</i> Glenn Hawkins &amp; Associates Limited. Rotorua, New Zealand.</p> <p><b>Mika, J. P.</b>, &amp; Selwyn, K. (2016). <i>Evaluation of the Tairāwhiti Māori business hub pilot.</i> Wellington, New Zealand: Te Puni Kōkiri.</p> <p><b>Mika, J. P. (2016).</b> What is Māori innovation? To snare the sun, and then some... <i>Idealog.</i> Retrieved from <a href="http://idealog.co.nz/venture/2016/06/what-maori-innovation-snare-sun-and-then-some">http://idealog.co.nz/venture/2016/06/what-maori-innovation-snare-sun-and-then-some</a>.</p> <p><b>Mika, J. P. (2015).</b> <i>The role of publicly funded enterprise assistance in Māori entrepreneurship in Aotearoa New Zealand.</i> (A thesis submitted in partial fulfilment of the requirements for the degree of Doctor of Philosophy in Business), Massey University, Palmerston North, New Zealand.</p> <p><b>Mika, J. P. (1995).</b> A review of Inland Revenue services to Māori authorities: An exploration of the issues and views of a cross section of Māori authorities. Hamilton, New Zealand: University of Waikato.</p> <p><b>Mika, J. P. (1994).</b> <i>An evaluation of the Māori management and learning styles project.</i> Rotorua, New Zealand: Waiariki Polytechnic.</p> <p>Joseph, R., Kilgour, J., Tahana, A., Rakena, M., Jefferies, T. P., &amp; <b>Mika, J. P. (2015).</b> <i>Te pae tawhiti: Exploring the horizons of economic performance.</i> Hamilton, New Zealand: University of Waikato and Ngā Pae o Te Māramatanga.</p> <p>Awatere, S., Hudson, M., Pauling, C., Lambert, S., <b>Mika, J. P.</b>, &amp; Reid, J. (2015). <i>Whakatipu rawa mā ngā uri whakatipu: Optimising the 'Māori' in Māori economic development.</i> Hamilton, New Zealand: Landcare Research.</p> <p>Grimes, A., <b>Mika, J. P.</b>, Pomare, E., &amp; Savage, S. (2016). <i>Using Poutama Trust's data to evaluate the success of Poutama's assistance to Māori businesses.</i> Wellington, New Zealand: Motu Economic and Public Policy Research.</p> <p><b>Mika, J. P. (2013).</b> <i>Efficacy of using Poutama Trust's database for research on Māori business.</i> Wellington, New Zealand: Motu Economic and Public Policy Research and Poutama Trust.</p> <p>Goodwin, D., McKeeg, K., Were, L., &amp; <b>Mika, J. P. (2013).</b> <i>Final report: Moving the Māori nation.</i> Wellington, New Zealand: Te Puni Kōkiri.</p> <p><b>Mika, J. P. (2010).</b> Access to finance and banking services for Māori: A discussion paper. Wellington, New Zealand: Te Puni Kōkiri.</p>

**Mika, J. P.** (2009). *Te Mangai Paho: Scoping study for an evaluation tool*. Wellington, New Zealand: Te Mangai Paho - Māori Broadcasting Funding Agency.

**Mika, J. P.** (2007). *Pacific responsiveness stocktake report* (P.-P. M. Agency Ed.). Wellington, New Zealand: Pharmaceutical Management Agency.

**Mika, J. P.** (2005). Discussion paper: Corporate governance and Māori commercial entities in New Zealand. Wellington, New Zealand: Te Puni Kōkiri.

**Mika, J. P.** (2002). *Māori capacity building: Making Māori independence a legitimate policy objective*. (Master of Public Policy Research Paper), Victoria University of Wellington, Wellington, New Zealand.

Hawkins, G., Mariu, S., Jones, R., & **Mika, J. P.** (1999). The establishment of a Māori business financial institution: An investigation into the finance needs of Māori business and options for the establishment of a Māori business financial institution. Wellington, New Zealand: Department of Work and Income (Community Employment Group).

## 2b. Previous research work

**Research title:** The role of publicly funded enterprise assistance in Māori entrepreneurship (2015) (Doctoral thesis)

**Principal outcome:** Influenced enterprise policy for Māori entrepreneurs

**Principal end-user and contact:** Jim Wilson, senior advisor, Te Puni Kōkiri; Richard Jones, Poutama Trust CEO; Hemi Rolleston, interim CEO, Callaghan Innovation.

**Research title:** Te Pae Tawhiti: Māori enterprise collaboration, management and governance project with Ngāti Pikiao (2016)

**Principal outcome:** Facilitate exploring of collaborative investment among iwi

**Principal end-user and contact:** Arapeta Tahana, Chair, Rotoiti 15 Trust, Rotorua.

**Research title:** *Whakatipu rawa ma ngā uri whakatipu: Optimising the 'Māori' in Māori economic development* (2015)

**Principal outcome:** Report and case studies on the incorporation of Māori values in investment and business decision making by Māori enterprises

**Principal end-user and contact:** Ngā Pae o Te Māramatanga and the participating enterprises (Ngāti Awa, Ngāi Tahu, Whakatōhea and others).

## 2c. Describe the commercial, social or environmental impact of your previous research work

1. Lead author on Te Pae Tawhiti (Manawatū-Whanganui Māori economic development strategy, October 2016) and Te Pae Tata (Māori potential within Accelerate25, the Manawatū-Whanganui Economic Action Plan, August 2016).
2. Coauthor of Tairāwhiti Māori Economic Development Report for Kimihia He Oranga, along with Te Whare Wānanga o Awanuiārangi, February 2017
3. Provided Māori economic policy advice to the minister of Māori development, through Poutama Trust, on policies to accelerate Māori economic development;
4. A secondment with Callaghan (Dec 2015) resulted in three initiatives: Matariki X, June 2016; Rukuhia, Māori innovation pilot, and subsequent secondments.
5. Securing Ngā Pae o Te Māramatanga funding for a scoping study on ecosystem efficacy of indigenous entrepreneurs (March 2017-February 2018).

## 2d. Demonstration of relationships with end-users

1. Working with Te Roopu Hokowhitu Trust, seven Ngāti Raukawa marae in Rangitikei on entrepreneurial ecosystem efficacy scoping study
2. Working with Te Reureu Kotahitanga Limited on land collaboration and economic development using whenua Māori, facilitating workshops (February – May 2017)
3. Working with Te Whare Wānanga o Awanuiārangi on Māori governance research project,examing governance issues between small and large iwi (3 year study).
4. Working with colleagues in the School of Management, on mainstream responsiveness to Māori within private and public entities (current).
5. Working with Statistics New Zealand colleague on a project to improve access to and quality of Māori business statistics.

1a. Personal details				
<b>Full name</b>	Dr	John	David	Reid
<b>Present position</b>	Senior Research Fellow			
<b>Organisation/Employer</b>	University of Canterbury			
<b>Contact Address</b>	Ngāi Tahu Research Centre			
	Private Bag 4800			
	Christchurch		<b>Post code</b>	8140
<b>Work telephone</b>	(03) 364 2987 ext 4291	<b>Mobile</b>	021 272 1369	
<b>Email</b>	John.Reid@canterbury.ac.nz			

#### 1b. Academic qualifications

2011	PhD (Development Studies), Lincoln University, NZ
1997	Bachelor of Resource Studies (Hons), Lincoln University, NZ

#### 1c. Professional positions held

2013–present	Senior Research Fellow, Ngāi Tahu Research Centre, Office of the Vice Chancellor, University of Canterbury
2013–Present	Adjunct Senior Research Fellow of Agribusiness and Economic – Agriculture and Economics Research Unit, Lincoln University
2009–2013	Regional Development Manager, Te Rūnanga o Ngāi Tahu—Responsible for the design and implementation of Ngāi Tahu’s regional business and economic development, health, education, and research programmes.
2004–2009	Project Leader, He Whenua Whakatipu, Te Rūnanga o Ngāi Tahu & Research Leader, Agriculture Research Group on Sustainability (ARGOS)—MBIE funded.

#### 1d. Present research/professional speciality

My area of interest is indigenous development. I specialise in indigenous approaches to sustainability, and in particular the sustainable management of collectively-owned Māori assets. This has led me to explore many areas relevant to Māori development including: tribal economies, post-settlement tribal development, indigenous approaches to building globally competitive businesses, and indigenous authenticity branding and marketing. In addition, I have a strong interest in indigenous identities and relationships to place that underpin novel approaches to social and economic development. I have a strong commitment to praxis and have twelve years’ experience in building businesses at whanau, hapū, and iwi scales, whilst leading complementary research to theoretically inform practice.

<b>1e. Total years research experience</b>	14 years
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#### 1f. Professional distinctions and memberships (including honours, prizes, scholarships, boards or governance roles, etc)

- Present **Principle Investigator**—Whai Rawa/Māori Economy—Ngā Pae o te Māramatanga Māori Centre of Research Excellence.
- Present **Director—Quake Centre of Research Excellence.** I provide a governing role in the implementation of the New Zealand Centre of Research Excellence focussed on earthquake engineering, planning, and resilience hosted by Universities of Canterbury and Auckland.
- 2013–present **Research Leader—New Zealand Sustainability Dashboard Programme (NZSDP) (MBIE AGRB1201).** My focus is building sustainability credentials into indigenous food and fibre products.
- 2013–2016 **Research Leader - He Kokonga Whare (HKW)**—This programme is exploring the impact of colonization and land alienation on Māori social, economic, and psychological wellbeing. (HRC Funded)
- 2012–present **Adjunct Senior Research Fellow of Agribusiness and Economics, Lincoln University.**
- 2014–16 **Steering Committee Member—Optimising Māori Economic Development.** The research project is being led from Waikato University and is developing new models and approaches for optimizing Māori economic development (NPM Funded).
- 2014–present **Advisory Board Member—Waterways Centre for Freshwater Management.** Providing strategic guidance and planning support to the Waterways Centre, a joint partnership between the University of Canterbury and Lincoln University with 40 to 50 staff.
- 2015 **Advisory Board Member—Smart Ideas, MBIE.**
- 2014–15 **Advisory Board Member—Maximising Export Returns (MER) -** Providing strategic guidance to the MER research programme, which is finding avenues for maximising export returns for New Zealand food and fibre products in Asia (MBIE Funded).
- 2014 **Keynote Address – Insights from leading sustainability, interdisciplinary, and cross-cultural research -** 5th International Conference on Mathematics and Natural Sciences (ICMNS), Bandung, Indonesia.
- 2014 **Advisory Panel—Vision Matauranga Capability Fund, MBIE.**
- 2014 **Advisory Panel—Biological Industries Fund, MBIE.**
- 2014 **Advisory Panel—Environment Fund, MBIE.**
- 2009–2013 **Director—Ngāi Tahu Fisheries Settlement LTD**
- 2009–2013 **Director—Canterbury Economic Development Company**

<b>1g. Total number of peer reviewed publications and patents</b>	Journal articles	Books, book chapters, books edited	Conference proceedings	Patents
	11	1	-	-

## PART 2

## 2a. Research publications and dissemination

### Peer-reviewed journal articles

- Reid, J., & Rout, M. (2017). Can sustainability auditing be indigenized? *Agriculture and Human Values. Journal of the Agriculture, Food, and Human Values Society*. In publication process.
- Awatere, S., Mika, J., Hudson, M., Pauling, C., Lambert, S., & Reid, J. (2017). Whakatipu rawa ma ngā uri whakatipu: optimising the “Māori” in Māori economic development. *AlterNative*, 13(2), 80-88. doi:10.1177/1177180117700816
- Rosin, C., Campbell, H., & Reid, J. (2017). Metrology and sustainability: Using sustainability audits in New Zealand to elaborate the complex politics of measuring. *Journal of Rural Studies*, 52, 90-99. doi:10.1016/j.jrurstud.2017.02.014
- Reid, J., & Rout, M. (2016). Getting to know your food: the insights of indigenous thinking in food provenance. *Agriculture and Human Values. Journal of the Agriculture, Food, and Human Values Society*, (early access online). doi:10.1007/s10460-015-9617-8
- de Olde, E. M., Moller, H., Marchand, F., McDowell, R. W., MacLeod, C. J., Sautier, M., . . . Manhire, J. (2017). When experts disagree: the need to rethink indicator selection for assessing sustainability of agriculture. *Environment, Development and Sustainability*, 19(4), 1327-1342. doi:10.1007/s10668-016-9803-
- Reid, J. D., Varona, G., Smith, C., & Fisher, M. (2016). Understanding Māori ‘lived’ culture to determine cultural connectedness and wellbeing. *Journal of Population Research*, 33(1), 31-49. doi:10.1007/s12546-016-9165-0
- Kenney, C., Phibbs, S., Paton, D., Reid, J., & Johnston, D. (2015). Community-led Disaster Risk Management: A Māori Response to Ōtautahi (Christchurch) Earthquakes. *Australasian Journal of Disaster and Trauma Studies*, 19(1), 9-20. Retrieved from [http://www.massey.ac.nz/~trauma/issues/2015-IRDR/AJDTs\\_19\\_IRDR\\_Kenney.pdf](http://www.massey.ac.nz/~trauma/issues/2015-IRDR/AJDTs_19_IRDR_Kenney.pdf)
- Merfield, C., Moller, H., Manhire, J., Rosin, C., Norton, S., Carey, P., . . . McCarthy, A. (2015). Are Organic Standards Sufficient to Ensure Sustainable Agriculture? Lessons from New Zealand's ARGOS and Sustainability Dashboard Projects. *Sustainable Agriculture Research*, 4(3), 158-172.
- Reid, J., Taylor-Moore, K., & Varona, G. (2014). Towards a Social-Structural Model for Understanding Current Disparities in Māori Health and Wellbeing. *Journal of Loss and Trauma: International Perspectives on Stress & Coping*, 19(6), 514-536. doi:10.1080/15325024.2013.809295
- Barr, T. L., & Reid, J. (2014). Centralized decentralization for tribal business development. *Journal of Enterprising Communities: People and Places in the Global Economy*, 8(3), 217-232. doi:10.1108/JEC-10-2012-0054
- Barr, T., Reid, J., Varona, G., & Castka, P. (2014). Development of Indigenous Enterprises in Contemporary Business Environment—a case of Ngai Tahu Ahika Kai approach. *Entrepreneurial Practice Review*, 3(2).

### Peer reviewed books, book chapters, books edited



Reid, J., & Rout, M. (2016). Māori tribal economy: Rethinking the original economic institutions. In T. Anderson (Ed.), *Unlocking the Wealth of Indian Nations* (pp. 60-83). London: Lexington.

Refereed conference proceedings

Other forms of dissemination (reports for clients, technical reports, popular press, etc)

Rosin, C, Campbell, H, **Reid, J**, Manhire, J, Barber, A, Hunt, L. (2015). "Introducing Metrologies: Initial Reflections on Grower Responses to Audit Measures in the NZ Sustainability Dashboard Project." New Zealand Sustainability Dashboard Research Report 15/01, available at [www.nzdashboard.org.nz](http://www.nzdashboard.org.nz).

**Reid, J.** (2014). "The Power of Animism." TEDx Talk Queenstown 2014.

Hunt, L, MacLeod, C, Moller, H, **Reid, J**, Rosin, C. (2014). "Framework and KPIs for 'The New Zealand Sustainability Dashboard': Reflecting New Zealand's Economic, Social, Environmental and Management Values." New Zealand Sustainability Dashboard Research Report 13/09, available at [www.nzdashboard.org.nz](http://www.nzdashboard.org.nz).

**Reid, J**, Barr, T, Lambert, S. (2013). "Indigenous Sustainability Indicators for Farming and Fishing Enterprises: A Theoretical Framework." New Zealand Sustainability Dashboard Research Report 13/06, available at [www.nzdashboard.org.nz](http://www.nzdashboard.org.nz).

Manhire, J, Moller, H, Barber, A, Saunders, C, MacLeod, C, Rosin, C, Lucock, D, Post, E, Ombler, F, Campbell, H, Bengel, J, **Reid, J**, Hunt, L, Hansen, P, Carey, P, Rotarangi, S, Ford, S, Barr, T. (2012). "The New Zealand Sustainability Dashboard: Unified Monitoring and Learning for Sustainable Agriculture in New Zealand." New Zealand Sustainability Dashboard Research Report 13/01, available at [www.nzdashboard.org.nz](http://www.nzdashboard.org.nz)

## 2b. Previous research work

**Research title:** Ngāi Tahu Pounamu

**Principal outcome:** This participatory action research project resulted in a successful whānau and hapū scale business – winner of 'Māori Business of the Year' 2013, awarded by Auckland University's School of Business. The business is supporting multiple whānau generating social benefits.

**Principal end-user and contact:** Te Rūnanga o Ngāi Tahu

**Research title:** Ahikā Kai

**Principal outcome:** This participatory action research project resulted in a successful online indigenous foods marketing and sales platform designed to assist small-scale mahinga kai producers in accessing premium markets for their products. The platform is supporting whanau financially generating flow-on social benefits.

**Principal end-user and contact:** Te Rūnanga o Ngāi Tahu

**Research title:** Indigenous Sustainability Food Production Standards

**Principal outcome:** This project involved the development of indigenous sustainability food production standards for Te Runanga o Ngai Tahu. These standards set a new level of stringent social and environmental requirements that align with Māori values, and provide guidelines for responsible farming, forestry, and fishery practices.

**Principal end-user and contact:** Te Rūnanga o Ngāi Tahu

**Research title:** Ngāi Tahu Perfumes

**Principal outcome:** This project involved the development and re-establishment of traditional Ngāi Tahu perfumes through R&D and facilitated dialogue with international perfume houses for commercialization (on going).

**Principal end-user and contact:** Te Rūnanga o Ngāi Tahu

**Research title:** Rongoā Ngāi Tahu

**Principal outcome:** I was involved in the partnership between AgResearch and Te Rūnanga o Ngāi Tahu to test rongoā Ngāi Tahu for pharmaceutical applications. This identified a number of promising commercial pathways.

**Principal end-user and contact:** Te Rūnanga o Ngāi Tahu and AgResearch

### **2c. Describe the commercial, social or environmental impact of your previous research work**

All of my research projects and programmes listed in 2b (as well as others) have been embedded with Māori communities and have been designed to deliver tangible benefits. There has been a strong commercial and community focus to my research, with the purpose of the enterprise success being to aid economic, social, environmental and cultural wellbeing of rūnanga in the Ngāi Tahu rohe.

### **2d. Demonstration of relationships with end-users**

Projects have been embedded with the following rūnanga:

- Te Rūnanga o Ngai Tahu—Development of Ahikā Kai and Ngāi Tahu Pounamu business models within various Ngāi Tahu hapū and whanau enterprises.
- Te Rūnanga o Koukourarata—Research and technical advice in the development of traditional community gardens.
- Orohaki Land Trust—Research and development to deliver advice and support on best farming practice. The development of commercial tunnel houses for the growing of high-value organic capsicums and courgettes.
- Wairewa Rūnanga—The development farm plans and sustainability standards for the Rūnanga owned Te Putahi Farm. Furthermore, assisted in the development of the Wairewa Rūnanga award-winning V5 research project exploring ecological engineering solutions to improve the water quality of Lake Wairewa.
- Onuku Runanga—Research and technical advice in the development of traditional community gardens.

1a. Personal details				
<b>Full name</b>	<i>Title</i>	<i>First name</i>	<i>Second name(s)</i>	<i>Family name</i>
	Dr.	Shaun		Awatere
<b>Present position</b>	Researcher			
<b>Organisation/Employer</b>	Manaaki Whenua Landcare Research			
<b>Contact Address</b>	Private Bag 3127			
	Hamilton			
			<b>Post code</b>	3124
<b>Work telephone</b>	078593790	<b>Mobile</b>		
<b>Email</b>	<a href="mailto:awateres@landcarersearch.co.nz">awateres@landcarersearch.co.nz</a>			
<b>Personal website (if applicable)</b>	http://			

1b. Academic qualifications	
2009	PhD, University of Waikato (Economics)
1997	MMS, University of Waikato (Environmental & Resource Economics)
1995	BMS, University of Waikato (Economics, Māori Resource Management)

1c. Professional positions held	
2016–present	Principal investigator, Sustainable Seas NSC project “Mauri Moana, Mauri Tangata, Mauri Ora—Documenting Social Values
2015–2016	Technical advisor to the Wai Ora Wai Māori Freshwater Programme, Auckland Council
2014–2016	Technical advisor to the Tai Timu Tai Pari Hauraki Marine Spatial Plan, Auckland Council, Waikato Regional Council and Department of Conservation
2014–2015	Principal investigator, Nga Pae o Te Māramatanga project “Optimising the ‘Māori’ in Māori Economic Development—How Māori values inform investment decisions for collective assets” 13RF14
2013–2014	Member, Auckland Council’s Alternative Transport Funding Project Consensus Building Group (CBG)
2013	Member, Iwi Science Panel for the National Objectives Framework of the Freshwater Reform 2013 and beyond
2009–2012	Principal investigator, FRST project “Kaitiakitanga of urban settlements” C09X0907
2005–2008	Principal investigator, Nga Pae o Te Māramatanga project “Tu Whare Ora: Building Capacity for Māori Driven Design in Sustainable Settlement Development” 05-RF1-15
2005–present	Member, Integrated Kaipara Harbour Management Group
2002–present	Researcher, Manaaki Whenua—Landcare Research; Resource and environmental economics, Māori research and environmental issues, Māori values research, human dimensions, spatial databases, geographic information systems (GIS), land resource assessment and evaluation.

1d. Present research/professional speciality
1. Resource and environmental economics, particularly non-market valuation and property rights.

2. Māori environmental planning issues, human dimensions and collaborative research, Māori resource management issues, Māori values, Māori information systems and applications of Geographic Information Systems.

<b>1e. Total years research experience</b>	14 years
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<b>1g. Total number of peer reviewed publications and patents</b>	Journal articles	Books, book chapters, books edited	Conference proceedings	Patents
	5	4	11	

## PART 2

<b>2a. Research publications and dissemination</b>
Peer-reviewed journal articles
<p><b>Awatere, S.</b> et.al (2017) Whakatipu rawa mā ngā uri whakatipu: Optimising the Māori in Māori economic development, <i>AlterNative</i> 13: 2</p> <p>Harmsworth, G., <b>Awatere, S.</b> and Robb, M. (2016) Indigenous Māori values and perspectives to inform freshwater management in Aotearoa-New Zealand. <i>Ecology and Society</i> 21: 4</p> <p>Hudson, M., Collier, K., <b>Awatere, S.</b>, Harmsworth, G., Henry, J., Quinn, J., . . . Robb, M. (2016). Integrating indigenous knowledge into freshwater management. <i>International Journal of Science in Society</i> 8: 1</p> <p><b>Awatere, S.</b> (2010). What is the degree of mātauranga Māori expressed through measures of ethnicity? <i>AlterNative</i> 6: 1</p> <p>Rolleston, S., <b>Awatere, S.</b> (2009). Ngā hua papakāinga: Habitation design principles. <i>MAI Review</i> 2009: 2</p>
Peer reviewed books, book chapters, books edited
<p>Pauling, C., <b>Awatere, S.</b>, Rolleston, S. (2014). What has Ōtautahi revealed? – Māori urban planning in post-earthquake Christchurch. In: Reynolds R, Dann J, Johnson E, Bennett B eds <i>Once in a lifetime: city-building after disaster in Christchurch</i>. Christchurch, NZ: Freerange Cooperative Ltd.</p> <p><b>Awatere, S.</b>, Harmsworth, G., Rolleston, S., Pauling, C. (2013). Kaitiakitanga o ngā ngahere pōhatu: Kaitiakitanga of urban settlements. In: Jojola T, Natcher D, Walker R eds <i>Reclaiming indigenous planning</i>. Montreal: McGill-Queen’s University Press.</p> <p>Harmsworth, G.R., <b>Awatere, S.</b> (2013). Indigenous Māori knowledge and perspectives of ecosystems. In: Dymond J, Ausseil A-G eds <i>Ecosystem services: conditions and trends</i>. Christchurch, Manaaki Whenua Press.</p> <p><b>Awatere, S.</b>, Rolleston, S., Pauling, C. (2010). Māori urban design principles. In: Stuart S, Thompson-Fawcett M eds <i>Tāone tupu ora: Indigenous knowledge and sustainable urban design</i>. Wellington: New Zealand Centre for Sustainable Cities, University of Otago.</p>
Refereed conference proceedings
<p>Harmsworth, G., <b>Awatere, S.</b>, Procter, J. (2014). Meeting water quality and quantity standards to sustain cultural values. 21st Century watershed technology conference and workshop: Improving water quality and the Environment, University of Waikato, 3–7 Nov 2014.</p> <p>Harmsworth, G.R., <b>Awatere, S.</b> (2013). Māori knowledge systems, networks and actions for climate change. Presentation to the New Zealand Climate Change Conference, Palmerston North, 4–5 June 2013.</p>

Meurk, C., Simcock, R., **Awatere, S.**, Swaffield, S. (2013). Managing the state highway corridor as a community, tourism & biodiversity asset. Presentation at REAAA Roadshow, Taupo, 28 August 2013.

Pauling, C., **Awatere, S.** (2012). Urban update: insights from collaborative and Mātauranga Māori inspired urban planning. Keynote presentation to the New Zealand Planning Institute Annual Conference 2012: 'A taste of things to come,' Blenheim, 1–4 May 2012.

**Awatere, S.**, Greenaway, A. (2011). Urban update: insights from collaborative and Mātauranga Māori inspired urban planning. Presentation to the CESSP Sharing Power Conference, Whakatane, 12–15 January, 2011.

**Awatere, S.** (2010). Integrated catchment management—Kaipara Moana. Presentation to the Mana Kaitiaki: Indigenous Planning and Environmental Decision Making conference, Whakatane, 24–16 November 2010.

#### Patents

#### Other forms of dissemination (reports for clients, technical reports, popular press, etc)

**Awatere, S.**, Hudson, M., Pauling, C., Lambert, S., Mika, J., Reid, J. (2016). Whakatipu Rawa mā ngā Uri Whakatipu: optimising the 'Māori' in Māori economic development. Hamilton: Manaaki Whenua Landcare Research. 105 p.

Hainsworth, S.B., Daigneault, A., Samarasinghe, O., **Awatere, S.** (2016). Whakairotia te whenua, whakairotia te tangata: economic and spatial modelling for informed Māori land development. Hamilton: Manaaki Whenua Landcare Research. 31 p.

**Awatere, S.**, Robb, M., Harmsworth, G. (2015). Proposed Mana Whenua values, attributes, and measures for Auckland Council's Wai Ora Wai Māori programme. Hamilton: Manaaki Whenua Landcare Research. 47 p.

Awatere, S., Tahī, M., Daigneault, A., Hainsworth, S.B., Fenemor, A. (2015). Whakatipu Rawa mā ngā Uri Whakatipu: Makirikiri Aggregated Trust case study. Landcare Research contract report No. 2051. Hamilton: Manaaki Whenua Landcare Research. 28 p.

Harmsworth, G., **Awatere, S.**, Robb, M. (2015). Māori values and perspectives to inform collaborative processes and planning for freshwater management. Policy Brief, Integrated Valuation and Monitoring Framework for Improved Freshwater Outcomes (C09X1003). Lincoln: Manaaki Whenua Landcare Research. 6 p.

Robb, M., Harmsworth, G., **Awatere, S.** (2015). Māori values and perspectives to inform collaborative processes and planning for freshwater management. Landcare Research contract report No. 14/15, Integrated Valuation and Monitoring Framework for Improved Freshwater Outcomes (C09X1003). Hamilton: Manaaki Whenua Landcare Research.

**Awatere, S.**, Harmsworth, G. (2014). Ngā aroturukitanga tika mō ngā kaitiaki: summary review of mātauranga Māori frameworks, approaches, and culturally appropriate monitoring tools for management of mahinga kai, Hamilton: Landcare Research. 45 p.

**Awatere, S.**, Harmsworth, G. (2013). Freshwater Management approaches informed by mātauranga Māori. Policy Brief, Integrated Valuation and Monitoring Framework for Improved Freshwater Outcomes (C09X1003), Palmerston North, Landcare Research. 5 p.

Harmsworth, G.R., **Awatere, S.** (Feb 2013). Review and evaluation of cultural monitoring approaches in New Zealand. Policy Brief, Integrated Valuation and Monitoring Framework for Improved Freshwater Outcomes (C09X1003), Palmerston North, Landcare Research. 5 p.

**Awatere, S.** (2012). Building mana whenua partnerships for urban design. Policy Brief, Kaitiakitanga of Urban Settlements (C09X0907), Hamilton: Landcare Research. 7 p.

**Awatere, S.,** Harmsworth, G. (2012). Māori values—iwi/hapū perspectives of freshwater management in the Auckland Region. Hamilton: Landcare Research.

**Awatere, S.,** Harmsworth, G., Pauling, C., Rolleston, S., Morgan, T.K., Hoskins, R. (2011). Kaitiakitanga o ngā ngahere pōhatu: Kaitiakitanga of urban settlements. Hamilton: Landcare Research

**Awatere, S.** (2008). The price of Mauri—exploring the validity of Welfare Economics when seeking to measure Mātauranga Māori. A thesis submitted in partial fulfilment of the requirements for the degree of Doctor of Philosophy in Economics. University of Waikato, Hamilton.

## 2b. Previous research work

**Research title:** FRST: Kaitiakitanga o ngā tāone nunui—Kaitiakitanga of urban settlements (2009–2012)

**Principal outcome:** To develop a framework that allows application of Mātauranga Māori into urban planning

**Principal end-user and contact:** Auckland Council, Christchurch City Council, Te Rūnanga o Ngāi Tahu, Mahaanui Kurataiao

**Research title:** Research Contract: Proposed Mana Whenua values, attributes, and measures for Auckland Council's Wai Ora Wai Māori (2015)

**Principal outcome:** To effectively integrate Māori values and iwi perspectives into freshwater management policy and objectives

**Principal end-user and contact:** Auckland Council

**Research title:** Nga Pae o te Māramatanga (13RF14): Optimising the 'Māori' in Māori Economic Development—How Māori values inform investment decisions for collective assets (2013–2015)

**Principal outcome:** Developing an interface between Māori values, normative ethics and financial measures, which will form the basis of a new economic decision-making framework for collective assets.

**Principal end-user and contact:** Makirikiri Aggregated Trust, Te Whakatōhea Māori Trust Board, Te Rūnanga o Ngāi Tahu

## 2c. Describe the commercial, social or environmental impact of your previous research work

Our research **has influenced in part the way iwi/hapū carry out the business** of kaitiakitanga within urban, freshwater, and marine environments. Tangata whenua values are no longer taken for granted by local government or property developers; they are now actively applied in housing developments, local government freshwater management plans and marine spatial plans.

## 2d. Demonstration of relationships with end-users

Major achievements and reports reflect an in-depth relationship with Māori organisations such as trusts and rūnanga during the past 15 years. This work has involved some consultancy work along with research funded by Nga Pae o te Maramatanga and Ministry of Business, Innovation and Employment.

1a. Personal details				
Full name	Title	First name	Second name(s)	Family name
	Dr	Annemarie		Gillies
Present position		Director, Research Office		
Organisation/Employer		Te Puna Ora O Mataatua Charitable Trust		
Contact Address	Research Office			
	PO Box 729			
	Whakatāne		Post code	3158
Work telephone	07 307 1983	Mobile		
Email	research@tpoom.org.nz			
Personal website (if applicable)	N/A			

1b. Academic qualifications	
2006	PhD (Māori Studies), Massey University
1999	MBA (Executive), Massey University
1996	PGDip Māori Development, Massey University
1994	BBS (Accountancy), Massey University

1c. Professional positions held	
2014–2017	Professor Māori and Indigenous Research, Director—Research Office, Te Whare Wānanga o Awanuiārangi
2007–2014	Senior Lecturer, Director—Te Au Rangahau Māori Business Research Centre, Massey University
1999–2007	Lecturer, Massey University, College of Business
1994–1999	Research Officer/ Manager, Massey University, Māori Studies

1d. Present research/professional speciality
Māori social, cultural, economic and environmental well-being; Māori community development; whānau and hapū development.

1e. Total years research experience (exclude periods away from research)	22 years
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1f. Professional distinctions and memberships (e.g. honours, prizes, scholarships, boards or governance roles etc)	
2014–2016	Executive Management Team, Te Whare Wānanga o Awanuiārangi
2013	Massey University Sabbatical
2009–2014	Massey University Human Ethics Committee (VC Appointed)
2008–2014	Senior Leadership Team (Māori), Massey University
2007–present	Te Mata o Te Tau Research Fellow, Massey University
2007–present	New Zealand Institute of Chartered Accountants



2007	Māori Academic Excellence Award 2008, Waikato University
2003	Massey University Research Award
1999	HRC Post Graduate Scholarship
1998–2002	Public Health Association of New Zealand (Executive)
1996	HRC Travel Award

### Current Governance Roles

2009–current	Highbury Whānau Centre, Palmerston North, Manawatū
2011–current	Iuventus START youth transition services, Palmerston North, Manawatū
2007–current	Waimarama 3a6b6b – Pouhokio Sheep and Beef Station
2008–current	Waimarama 3a2c—Cray Bay Trustee
1997–current	Ngāti Kahungunu 28 Battalion D Company Research Group

1g. Total number of peer-reviewed publications and patents	Journal articles	Books, book chapters, books edited	Conference proceedings	Patents
	9	1	1	0

## PART 2 – Relevant Information

2a. Research publications and dissemination
Journal articles
Tinirau, R., & Gillies, A. (2013). Ngā Manu Kōrero: Revitalising communication, customs and cultural competencies amongst Māori students, teachers, whānau and communities. <i>Educational Perspectives: Journal of the College of Education / University of Hawai'i at Mānoa</i> , 45(1&2): 74-81.
Gillies, A., & Barnett, S. (2012). Māori kuia in Aotearoa/New Zealand: Perceptions of marae and how marae impacts on their health. <i>Pimatisiwin—A Journal of Aboriginal and Indigenous Community Health</i> , 10(1): 27-37.
Tomlins-Jahnke, H. & Gillies, A. (2012). Indigenous innovations in qualitative research method: Investigating the private world of family life. <i>International Journal of Qualitative Methods</i> , 11(4): 498-512.
Stephens, C., & Gillies, A. (2012). Understanding the role of everyday practices of privilege in the perpetuation of inequalities. <i>Journal of Community and Applied Social Psychology</i> , 22(2): 145-458.
Tinirau, R., Gillies, A., & Tinirau, R. (2011). Hōmai tō hono: Connecting customary, conventional and spiritual healing practices within a rural-based Māori community. <i>AlterNative</i> , 7(2): 163-176.
Tinirau, R., Gillies, A., & Tinirau, R. (2009). Ahikā: An ancient custom re-ignited to guide decision-making in Māori research. <i>He Pukenga Kōrero: A Journal of Māori Studies</i> , 9(1): 11-19.
Gillies, A., Tinirau, R., & Mako, N. (2007). Whakawhanaungatanga—extending the networking concept. <i>He Pukenga Kōrero: A Journal of Māori Studies</i> , 8(2): 29-37.
Comrie, M., Gillies, A., & Day, M., (2002). Problems of Measuring 'Success'. <i>Journal of Political Science</i> , 54(2): 45-58.
Gillies, A. (1996). Quality and cultural relevance in the management of Māori health services. <i>Health Manager</i> , 3(3): 6-8.
Books, book chapters, books edited
Gillies, A. (2011). Mana Hauora. In M. Mulholland, H. Jahnke, & R. Jahnke (Eds.), <i>Mana Tangata</i> (1st ed.). Wellington, NZ: Huia Publishers.
Conferences proceedings

Tinirau, R.S. & **Gillies, A.** (2010). Turupoutia tō piki amokura: Distinguishing Māori values and practices in contemporary Māori businesses and organisations. In J.S. Te Rito & S.M. Healy (Eds.). *Proceedings of the 4<sup>th</sup> International Traditional Knowledge Conference 2010: Kei Muri i te Kāpara He Tangata Kē: Recognising, Engaging, Understanding Difference* (pp. 357-364). Auckland, NZ: Ngā Pae o te Māramatanga.

#### Refereed conferences, symposia etc

Smith, G.H., **Gillies, A.**, Wiremu, F. (2016). Persisting inequalities and the potential for intervention through “new” governance models. Research leaders presentations to the International Research Advisory Board for Ngā Pae o te Māramatanga 21-23 November 2016.

Smith, G.H., **Gillies, A.**, Tinirau, R., Watson, H., Wiremu, F., & Smith, L. (2016). Unleashing Māori potential: Critical understandings of the dialectic of ‘transforming Iwi’: ‘transforming research’. A paper presented at the International Indigenous Research Conference 15-18 November 2016. Ngā Pae o te Māramatanga, University of Auckland.

**Gillies, A.**, & Tinirau, R. (2016) Kei whea koutou mātua mā i te hauoratanga. A paper presented at the International Indigenous Research Conference 15-18 November 2016. Ngā Pae o te Māramatanga, University of Auckland.

**Gillies, A.**, Economics and wellbeing. A Paper presented at the Iwi and hapū wellbeing symposium 16-17 June 2016. University of Waikato, Hamilton, New Zealand.

Smith, G.H., Stephens, C., **Gillies, A.**, & Tinirau, R. (2015). Māori economic development and the relationship to transforming education. A Paper presented at the NZARE Conference and AGM 17-20 November 2015, Te Whare Wānanga o Awanuiārangi, Whakatane, New Zealand.

**Gillies, A.** & Tinirau, R. (2015). What is Māori Economic Development? Insights from four iwi. A Paper presented at He Manawa Whenua Conference 29 June–1 July 2015, Hamilton, New Zealand.

Harvey, L., Tinirau, R., & **Gillies, A.** (2015) Achieving Socio-cultural outcomes and aspirations through Māori economic development: an insight from Ngāti Awa. Paper presented at the National Native Land Title Conference: Leadership, Legacy and Opportunity 16-18 June 2015. Port Douglas, Queensland, Australia

Smith, G.H., **Gillies, A.**, Warriner, V., & Tinirau, R.S. (2014). Let the people decide! An endogenous mātauranga-ā-iwi research approach. Paper presented at the International Indigenous Development Research Conference 2014, Auckland, NZ.

Smith, G.H., **Gillies, A.**, Warriner, V., & Tinirau, R.S. (2014). Casting a Māori lens creates opportunities and strategies. Paper presented at the International Indigenous Development Research Conference 2014, Auckland, NZ.

Tinirau, R.S., Kamau, R., **Gillies, A.**, & Warriner, V. (2013). Iwi innovation: Providing local solutions and realising local opportunities. Paper presented at the Social Innovation & Entrepreneurship Conference, Auckland, NZ.

Tinirau, R.S., **Gillies, A.** & Tinirau, R. (2013). He kura ka huna: A treasure concealed —Educational experiences of kuia and koroheke of Rānana, Whanganui River, New Zealand. Paper presented to the American Educational Research Association Annual Meeting, San Francisco, California, USA.

Barnett, S., **Gillies, A.** & Tinirau, R.S. (2012). Māori entrepreneurs: ‘More bang for their buck’. Paper presented at the 5<sup>th</sup> International Indigenous Development Conference 2012, Auckland, NZ.

**Gillies, A.**, Logan-Riley, A., & Tomlins-Jahnke, H. (2012, June 27). Au e Ihu: Nga Morehu Taua—Those who are left behind must complete the work. In *International Indigenous Development Research Conference 2012*. University of Auckland Nga Pae o te Māramatanga.

**Gillies, A.**, Tomlins-Jahnke, H., & Ruwhiu, A. (2012, July 9). Whānau Talk: Examining the implications of interconnectedness and relational epistemologies as frameworks within which to discuss an indigenous centred methodology on family communication in New Zealand. In *RC33 Eighth International Conference on Social Science Methodology*. University of Sydney Australia.

- Gillies, A.**, Tomlins-Jahnke, H., & Ruwhiu, A. (2012, July 9). Whānau Talk: Exploring collaboration in indigenous centred social research on family communication in New Zealand. In *RC33 Eighth International Conference on Social Science Methodology*. University of Sydney Australia.
- Gillies, A.**, Tomlins-Jahnke, H., & Ruwhiu, A. (2012, June 27). Whānau Talk: Intra-whanau communication, the transmission of values and links to health and wellbeing. In *International Indigenous Development Research Conference 2012*. University of Auckland Nga Pae o te Māramatanga.
- Tomlins-Jahnke, H. & **Gillies, A.** (2010). Understanding the complex ecologies of Family Life through an investigation of intrafamily communication. Paper presented at the American Education Research Association Conference, Denver, Colorado, USA.
- Jahnke, H., **Gillies, A.**, Emery, T. (2010). Taonga tuku iho: Not for sale! Paper presented at Whenua: Sustainable Futures with Māori Land Conference, Rotorua, NZ.
- Tomlins-Jahnke, H. & **Gillies, A.** (2009). Interwhanau communication and whanau ora. Innovations in Qualitative methodology. Paper presented at NZARE Conference, Rotorua, NZ.
- Gillies, A.**, (2009). Koha: A Māori customary cultural practice re-interpreted and subjugated by conventional circles of knowledge. Paper presented at the American Educational Research Association Annual Meeting, San Diego, California, USA.
- Jahnke, H., **Gillies, A.**, & Kingi, T. (2009). Iwi Futures: An integrated Māori land and resource development decision support framework. Paper presented at the American Educational Research Association Annual Meeting, San Diego, California, USA.
- Tinirau, R.S. & **Gillies, A.** (2009). Hōmai tō hono: Forging customary, conventional and theological healing practices within a rural-based, hapū community. Paper presented at the New Zealand Association of Gerontology and Age Concern Conference, Wellington, NZ.
- Tinirau, R., & **Gillies, A.** (2008). Ngā Manu Kōrero: Fostering eloquence and excellence amongst Māori students, teachers, whānau and communities. Paper presented at the American Education Research Association Annual Meeting, New York, USA.
- Tinirau, R. S., **Gillies, A.**, & Tinirau, R. (2008). Ahikā: an ancient custom re-ignited to guide decision-making in Māori research. Paper presented at the American Education Research Association Annual Meeting, New York, USA.
- Gillies, A.**, Tinirau, R., Mako, N. (2007). Whakawhanaungatanga—A Māori research method that supports the networking concept. Paper presented at the American Education Research Association Annual Meeting, Chicago, Illinois, USA.
- Gillies, A.**, Tinirau, R., Mako, N. (2006). *Whakawhanaungatanga: An indigenous networking tool*. Paper presented at the Te Au Rangahau Business Colloquium, College of Business, Massey University, Palmerston North, NZ.
- Barnett, S., & **Gillies, A.** (2005). Mai a Papa ki a Rangi: Māori research methods, methodology and theory—A ground up approach. Paper presented at the First Annual Congress of Qualitative Inquiry, University of Illinois, Urbana-Champaign, Illinois, USA.
- Stephens, C., Paddison, C., & **Gillies, A.** (2005). Community as practice: Implications for participation in community programmes. Paper presented at the New Zealand Psychological Society Annual Conference, Dunedin, NZ.
- Stephens, C., **Gillies, A.**, & Paddison, C. (2005). Social connectedness and health promotion: A qualitative study of social capital. Poster presented at the International Conference on Engaging Communities, Brisbane, Queensland, Australia.
- Stephens, S., **Gillies, A.**, & Paddison, C. (2004). Representations of community in health promotion. Paper presented to the 5<sup>th</sup> European Conference for Community Psychology, Berlin, Germany.
- Gillies, A.**, & Tinirau, R. (2004). Te Au Rangahau. Establishing an indigenous business research centre within a western university framework. Paper presented at the Hawaii International Conference on Business, Waikiki, Hawaii, USA.

**Gillies, A.** (2004). Cultural aggregation: Managing land as a cultural asset in Aotearoa New Zealand. Paper presented at the Hawaii International Conference on Business, Waikiki, Hawaii, USA.

Tinirau, R., & **Gillies, A.** (2004). The people with calloused hands: Māori business development in Aotearoa New Zealand Paper presented at the Hawaii International Conference on Business. Waikiki, Hawaii, USA.

Tinirau, R., & **Gillies, A.** (2004). Te Au Rangahau: A Māori business research centre. A Poster presented at the Hawaii International Conference on Business, Waikiki, Hawaii, USA.

**Gillies, A.**, & Barnett, S. (2004). Using a kaupapa Māori research methodology. Paper presented at the Qualitative Research in Business Symposium, College of Business, Massey University, Auckland, NZ

#### Unpublished PhD thesis

**Gillies, A.** (2006). Kia Taupunga te Ngākau Māori: Anchoring Māori Health Workforce Potential. Unpublished PhD, Massey University, Palmerston North, NZ.

#### Academic research reports

Smith, G.H., **Gillies, A.**, Wiremu, F., Mika, J.P., & Puketapu-Watson, J. (2017). Tairāwhiti Māori Economic Development: Critical analysis and strategic options. A Report prepared for Kimihia He Oranga. Te Whare Wānanga o Awanuiārangi, Whakatane, New Zealand. ISBN: 978-473-38752-5.

Smith, G.H., Tinirau, R.S., **Gillies, A.**, & Warriner, V. (2015). *He Mangōpare Amohia: Advancing Strategies for Māori Economic Development*. Report for Ngā Pae o te Māramatanga. Whakatāne, NZ: Te Whare Wānanga o Awanuiārangi.

Tinirau, R.S. & **Gillies, A.** (June, 2011). *Pakihi Huanui: Tracking the journeys of Māori self-employed and Māori entrepreneurs in micro-small businesses*. Report for Te Puni Kōkiri Ministry of Māori Development. Palmerston North, NZ: Te Au Rangahau Māori Business Research Centre, Massey University.

Tinirau, R.S. & **Gillies, A.** (May, 2010). *Pakihi Ararau: Tracking the journeys of Māori self-employed and Māori entrepreneurs in micro-small businesses*. Report for Te Puni Kōkiri Ministry of Māori Development. Palmerston North, NZ: Te Au Rangahau Māori Business Research Centre, Massey University.

**Gillies, A.**, Mako, N., Barnett, S., & Tinirau, R.S. (2008). An evaluation of Māori Focus Units and Māori Therapeutic Programmes. Report prepared for the Department of Corrections and Kāhui Tautoko Ltd, Te Au Rangahau Māori Business Research Centre, Department of Management, Massey University, Palmerston North, NZ.

Mako, N., **Gillies, A.** & Broughton, A (2008). Determining the education, development, and research needs of Māori land-owning authorities in agribusiness. Report prepared for Te Ohu Whenua, Te Au Rangahau Māori Business Research Centre, Department of Management, College of Business, Massey University, Palmerston North, NZ

Tinirau, R. S., Tinirau, R., **Gillies, A.**, Palmer, F., & Mako, N. (2007). He morehu tangata: A remnant people—A draft report prepared for the Rānana Māori Committee. Report prepared for the Rānana Māori Committee, Te Au Rangahau Māori Business Research Centre, Department of Management, Massey University, Palmerston North, NZ.

**Gillies, A.**, Mako, N., & Barnett, S., (2007). Māori Provider Development Scheme: Hauora Māori scholarships—Analysis and discussion. Te Au Rangahau Māori Business Research Centre, Department of Management, Massey University. Palmerston North, NZ.

#### 2b. Current research work

**Research title:** Persisting inequalities and the potential for intervention through “new” governance models

**Principal outcome:** Potential to reform current governance to assist in the intervention of high and dis-proportionate levels of ongoing inequality.

<b>Principal end user(s):</b> Post settlement iwi/hapū entities, whānau, hapū, iwi
<b>Previous research work</b>
<p><b>Research title:</b> Kimihia He Oranga:</p> <p><b>Principal outcome:</b> Funding for Tairāwhiti Māori economic development initiatives. Tairāwhiti Māori economic development report: Critical analysis and strategic options.</p> <p><b>Principal end user(s):</b> Tairāwhiti Tribal groups, government, regional and city councils, Te Puni Kōkiri</p>
<p><b>Research title:</b> Te Pae Tawhiti: Māori Economic Development</p> <p><b>Principal outcome:</b> Futures framework for Māori/iwi Economic Development</p> <p><b>Principal end user(s):</b> Iwi, hapū, and whānau, policy and planning for economic social, cultural, environmental and political development.</p>
<p><b>Research title:</b> He Morehu Taua: D Coy 28 Battalion Ngāti Kahungunu</p> <p><b>Principal outcome:</b> Community and Kaumātua engagement –Book in progress</p> <p><b>Principal end user(s):</b> Community, iwi,hapū, whānau, schools</p>
<p><b>Research title:</b> Iwi futures: Integrated decision making tools for Māori Landowners</p> <p><b>Principal outcome:</b> Uptake—findings, strategies, plans &amp; tools by case study groups</p> <p><b>Principal end user(s):</b> Iwi, hapū, and whānau</p>
<p><b>Research title:</b> Tikanga Māori, Tikanga Pakihi—Māori Values in Business</p> <p><b>Principal outcome:</b> Increased awareness and understanding of the application of Māori values in Business. Forthcoming PhD</p> <p><b>Principal end user(s):</b> Māori Businesses and communities</p>
<p><b>Research title:</b> Whānau Talk: Intra-whānau communication</p> <p><b>Principal outcome:</b> whānau engagement, awareness &amp; understanding of communication issues in whakapapa and kaupapa whānau groupings</p> <p><b>Principal end user(s):</b> Iwi and hapū policy and planners, local communities</p>
<p><b>Research title:</b> He Morehu Tangata: A remnant people</p> <p><b>Principal outcome:</b> Hapū community and marae social, cultural, environmental development</p> <p><b>Principal end user(s):</b> Hapū community, koroheke and kuia, and marae, health and social service provider engagement</p>
<p><b>Research title:</b> Ngā Kairauhii</p> <p><b>Principal outcome:</b> Marae community health development initiatives, strategies and plans</p> <p><b>Principal end user(s):</b> Six Heretaunga marae, local health and social service providers, marae based health centres</p>

### 2c. Describe the commercial, social, or environmental impact of your previous research work

- Increasing knowledge around intra-whānau communications and their perspectives of health and wellbeing.

- Increased whānau awareness and participation in utilising whānau land for a range of economic activities that include the application of tikanga Māori culture, wāhi tapu and values in the business models. Individuals and groups have benefitted.
- Re-establishing social, cultural and political networks with other Māori landowners in different tribal regions
- Reconnecting whānau with cultural assets (land), health and wellbeing
- Building whānau confidence to undertake their own business initiatives and contribute to the Māori economy
- Providing data and information to schools in relation to the Māori war effort in Ngāti Kahungunu so that mokopuna appreciate their own whānau, hapū, iwi, histories.

#### **2d. Demonstrate your relationships with end users**

- For most of the projects there is whakapapa or iwi, hapū and whānau connections therefore relationships are ongoing and go beyond the life of a project, e.g., I have worked with D Company Ngāti Kahungunu 28 Battalion for 20 years. I engage with other 28 Battalion Companies as well.
- Networks in health, cultural, social and environmental arena through past and present work with whanau, hapū, and iwi
- Collegial relationships with other academics in other institutions nationally and internationally.
- Professional and networking relationships with local, regional and national bodies and associations.
- Involved through mokopuna to kura and early childhood educators and providers.

1a. Personal details				
<b>Full name</b>	Dr	Daniel	Carl Henare	Hikuroa
<b>Present position</b>	Senior Lecturer			
<b>Organisation/Employer</b>	Māori Studies			
<b>Contact Address</b>	University of Auckland			
	Private Bag 92019			
	Auckland		<b>Post code</b>	1142
<b>Work telephone</b>	9239026		<b>Mobile</b>	021 246 9999
<b>Email</b>	d.hikuroa@auckland.ac.nz			

#### 1b. Academic qualifications

2005 PhD, Geology, University of Auckland  
1999 Post Graduate Diploma in Science, Geology, University of Auckland  
1996 BSc, Geology, University of Auckland

#### 1c. Professional positions held

2017-present Senior Lecturer, Māori Studies, University of Auckland  
2016-2017 Senior Lecturer, Anthropology, University of Auckland  
2011-2016 Research Director, Ngā Pae o te Māramatanga  
2008-2011 Community Earth Systems Science Programmes Manager, Institute of Earth Science & Engineering, University of Auckland  
2005-2007 Post-Doctoral Fellow, School of Geography, Geology, Environmental Science, University of Auckland  
2003-2005 Senior Lecturer, Te Whare Wananga o Awanuiarangi, Whakatane  
2002-2009 Lecturer, School of Geography, Geology, Environmental Science, UoA  
1999-2000 Expedition Leader, British Antarctic Survey

#### 1d. Present research/professional speciality

For many years mātauranga Māori had been considered incompatible with science, mainly because of the inclusion of holistic and spiritual components in the former. Increasingly the parallels between the two are being recognised and both scientists and holders of mātauranga are beginning to work with each other. After training as a Geologist, I now practice Earth Systems Science on community driven and participatory projects including: marine spatial planning; environmental management plans; natural resource use and management; natural hazards, disaster risk reduction, resilience; and industrial waste-site rehabilitation.

Specialties: Integrating Mātauranga Māori with science; Earth Systems Science; Natural Hazards & Disasters; Decision-Making Frameworks; Geothermal Geology; Coastal Geomorphology; Economy and Innovation. The key question of my research is: What can the integration of Mātauranga Māori and Science contribute to our understanding? The methods I employ are consistent with Kaupapa Māori paradigm, method and methodology, and I work primarily with Māori communities to realize their dreams and help solve their issues.

#### 1e. Total years research experience

14 years



**1f. Professional distinctions and memberships (including honours, prizes, scholarships, boards or governance roles, etc)**

2017, Keynote presentation Freshwater Big Think, for Sustainable Business Network  
 2017, Appointed to Advisory Board of George Mason Centre for the Natural Environment, University of Auckland  
 2016, Appointed Watercare Environmental Advisory Group  
 2016, Presented to the Environmental Protection Agency Board on how to integrate Mātauranga Māori and Science  
 2016, Appointed Nga Kaihautū Tikanga Taiao, Environmental Protection Agency  
 2016, Appointed Mātauranga Māori Advisory, Te Papa Tongarewa  
 2016, Chair, Bayview Primary School, Board of Trustees  
 2015, Appointed co-VM lead, Resilience to Natures Challenges, National Science Challenge  
 2015, Invited opening Plenary speaker at Finding New Zealand’s Scientific Heritage Conference, 23-24 November, Wellington  
 2014, Co-wrote Ngā Pae o te Māramatanga Centre of Research Excellence proposal  
 2014, Appointed to International Advisory Board for Science in Society, October  
 2014, Appointed as Associate Investigator in Te Pūnaha Matatini, Centre of Research Excellence, October 10  
 2014, Invited Plenary Speaker at 6<sup>th</sup> International Science in Society Conference, October 10-12, Vancouver, Canada  
 2014, Invited to & led a wānanga on integrating Mātauranga Māori and Science for Te Arawa ki Tai & Ngati Makino, Otamarakau Marae & Department of Conservation  
 2014, Invited member of expert Independent Review Panel of the Sea Change: Tai Timu, Tai Pari, Marine Spatial Plan for the Hauraki Gulf; Mātauranga Māori and Science expert  
 2014, Invited by Maniapoto Māori Trust Board to join Waipa Awa Fishery Reference Group, co-wrote Maniapoto Fishery Plan  
 2014, Invited to present proposal to the Iwi Leaders Forum to form a Māori Hazards & Disasters Research Advisory Board  
 2014, Invited Speaker Australasian Institute of Mining and Metallurgy Annual Conference, 27 August, Hamilton, NZ  
 2014, Invited speaker, New Zealand Association of Scientists Annual Conference, Auckland: “Science in Society”, 5 March, Auckland, NZ  
 2014, Co-wrote successful \$1million MBIE ‘Leveraging aggregate resources’ proposal  
 2014, Co-wrote successful \$14 million NEXT Foundation ‘Te Awaroa—1000 Rivers’ proposal  
 2013-2015, Elected member, Bayview Primary School. Board of Trustees  
 2014, Co-wrote successful \$85k UoA Strategic Research Initiatives Fund proposal – Te Awaroa  
 2013, Invited speaker at University of Waikato Kingitanga Day celebration.  
 2013, Invited Keynote speaker at Deans of Arts, Social Sciences & Humanities Annual Conference, Sydney, Australia.  
 2012, Chair Te Mana Taiao, Advisory Board for Maniapoto Māori Trust Board  
 2012, Convenor, ‘Natural Resource Governance in a Post-Treaty Settlement World’ workshop for the Ministry of Environment.

<b>1g. Total number of peer reviewed publications and patents</b>	Journal articles	Books, book chapters, books edited	Conference proceedings	Patents
	15	0, 5, 1	54	

**PART 2**

**2a. Research publications and dissemination**

Peer-reviewed journal articles

**Hikuroa, D.** (2017) Mātauranga Māori—the ūkaipō of knowledge in New Zealand. *Journal of the Royal Society of New Zealand, Special Issue – History of Science in New Zealand*, DOI: 10.1080/03036758.2016.1252407

Fa-aui, T., Morgan, K., **Hikuroa, D.** (2017) Ensuring objectivity by applying the Mauri Model to assess the post-disaster affected environments of the 2011 MV Rena disaster in the Bay of Plenty, New Zealand. *Ecological Indicators*, 79, 228-246  
<http://www.sciencedirect.com/science/article/pii/S1470160X17301735?via%3Dihub>

Peacock, B., **Hikuroa, D.**, Morgan, K. (2013) Watershed-scale prioritization of habitat restoration sites for non-point source pollution management. *Ecological Engineering*, 42, 174-182.  
doi:10.1016/j.ecoleng.2012.01.005

**Hikuroa, D.**, Slade, A., Gravley, D. (2011) Implementing mātauranga in a scientific paradigm: Restoring the mauri to Te Kete Poutama. *MAI Review*, Issue 3.

**Hikuroa, D.**, Morgan, K., Hēnare M., Durie, M. (2011) Integration of Indigenous Knowledge with Science. *International Journal of Science in Society*, 2(2), 105-114

Bull, J., Gravley, D., **Hikuroa, D.**, Costello, D. 2010. Assessing debris flows using LiDAR differencing: 18th May 2005 Matata event. *Geomorphology*, 124(1-2), 75-84

**Hikuroa, D.**, Morgan, K., Hēnare M., Gravley, D. (2010) Integrating indigenous values into geothermal development. *Transactions—Geothermal Resources Council*.

Peer reviewed books, book chapters, books edited

**Hikuroa, D.** (2015) Zealandia to Aotearoa—How permanent is home?, in *Home: Here to Stay*, M. Kepa *et al.* eds. Ngā Pae o te Māramatanga Book Series.

Whitinui, P., **Hikuroa, D.**, Glover, M. (Eds.) (2013) *Ara Mai He Tetekura*, Otago University Press.

**Hikuroa, D.** (2013) Māori Leadership in the Academy: A Scientist’s Perspective, in *Ara Mai He Tetekura*, Whitinui *et al.* eds. Otago University Press, pp. 146-154.

**Hikuroa, D.** (2017) My journey, in *Māori in Science*, M. Walker & M. Mulholland eds., Ngā Pae o te Māramatanga Book Series (forthcoming).

**Hikuroa, D.** (2017) Earth Systems Science, in *Māori in Science*, M. Walker & M. Mulholland eds., Ngā Pae o te Māramatanga Book Series (forthcoming).

Refereed conference proceedings

Morgan, K., Manuel, R., **Hikuroa, D.**, Fa’au, T., Bennett, R., Bennett, P. (2013) The Complementarity of Traditional Wisdom and Modern Knowledge in Disaster Recovery. *Regional Conference of the International Geographical Union*, Kyoto, Japan. 4-9 August.

**Hikuroa, D.** (2013) What role can Indigenous Knowledge play in reducing risk and increasing resilience? *Regional Conference of the International Geographical Union*, Kyoto, Japan. 4-9 August.

**Hikuroa, D.** (2013) Can Indigenous Knowledge reduce risk, facilitate recovery, and increase resilience? *He Mana Whenua Indigenous Research Conference*. Claudelands Events Centre, Hamilton. 1-3 July

**Hikuroa, D.** (2012) Who says Maui wasn’t a scientist? Strategies to increase Māori participation in science. Presented at Non Satis Scire—To Know Is Not Enough; *American Education Research Association Annual Meeting Proceedings*, Vancouver, Canada. 13 April-17 April 2012.

**Hikuroa, D.**, Slade, A., Morgan, K., Gravley, D. (2010) Restoring the mauri to Rotoitipaku: Implementing matauranga and kaitiakitanga in a scientific paradigm. *Proceedings of the Traditional Knowledge Conference*, June 2010, Auckland.

Patents

Other forms of dissemination (reports for clients, technical reports, popular press, etc)

**Hikuroa, D.** (2017). *The Future of Ours Seas Panel—Radio NZ*, [stuff.co.nz](http://stuff.co.nz)

Battershill, C., Ehler, C., **Hikuroa, D.**, & Boven, R. (2016). *Sea Change—Tai Timu Tai Pari*, Independent Review Panel Third Report

**Hikuroa, D.** (2016). He aha te mea nui o te ao? Commissioned piece for 'Reframing Innovation' Te Pūnaha Matatini and FigureNZ collaboration, reprinted in the NZ Herald, <http://www.tepunahamatatini.ac.nz/2016/08/05/he-aha-te-mea-nui/>

**Hikuroa, D.** & Costello, M. (2016). If you care about having fish to eat. Submission to MfE regarding MPA consultation and posted on SciBlogs.

Beverley, P., Ehler, C., Battershill, C., **Hikuroa, D.**, & Boven, R. (2015). Sea Change—Tai Timu Tai Pari, Independent Review Panel Second Report.

**Hikuroa, D.**, & Kelly, S. (2015). Environmental wellbeing of Māori in Tāmaki Makaurau: Scoping Report and Implementation Plan, for Independent Māori Statutory Board.

**Hikuroa, D.** (2014) Expert witness for Environment Court, discussing Mauri and Mana and Te Mana o te Wai in the National Policy Statement on Freshwater Management.

Kelly, S., **Hikuroa, D.**, Pierre, J., Sim-smith, C., Faire, S. (2014) Hauraki Gulf—State of the Environment Report, Commissioned by Hauraki Gulf Forum.

**Hikuroa, D.** (2014) Member of expert panel discussing Natural Hazards & Preparedness for Re:Think, November 23, TV3.

**Hikuroa, D.** (2014). Opening keynote presentation at 6th International Science in Society Conference “Navigating science in society: Multiple Ways of Knowing—Exploring the Commonalities and Differences between Indigenous Knowledge and Science” Vancouver, October 10.

Beverley, P., Ehler, C., Battershill, C., **Hikuroa, D.**, Boven, R. (2014) Independent Panel Review of the Sea Change—Tai Timu Tai Pari, Hauraki Gulf Marine Spatial Planning process. Technical Report for the Sea Change—Tai Timu Tai Pari Project Steering Group.

**Hikuroa, D.** (2014) Integrating Indigenous Knowledge and Science in Natural Hazards and Disasters Research. Interview for Cook Islands TV, June 11.

**Hikuroa, D.** (2013) Member of expert panel discussing Natural Hazards & Preparedness on TV3 Think Tank (aired July 14).

**Hikuroa, D.** (2012) Interviewed for Native Planet, international documentary series, Real World Media, Vancouver.

**Hikuroa, D.**, & Slade, A. (2010) Restoring the mauri to Rotoitipaku (industrial waste site): Implementing matauranga in a scientific paradigm. (Pages: 43). Commissioning body: Ngā Pae o te Māramatanga.

Robust, T., **Hikuroa, D.**, Hēnare, M., Malin, P., Lewis, N., Boswijk, G., & Nathan, H. (2009) Nga Papakauri o Hokianga. Technical Report for University of Auckland, Cross-Faculties Research Fund.

**Hikuroa, D.** & Gravley, D. (2007) Geologic Review of the A8D Block, Kawerau Geothermal Field. Confidential Technical Report for Otuwhetu Power Limited

## 2b. Previous research work

**General research title:** Restoring mauri

**General Principal outcome:** Working with hapu and iwi to determine how the mauri has been impacted and how it might be restored.

**Principal end-user(s):** Māori and other land-holders who wish to restore the mauri to their lands and waterways.

**Project 1:** Restoring the mauri to its pre-Rena state

**Principal end-user(s):** Te Arawa ki Tai

**Project 2:** Restoring the mauri to Te Whenua Rangatira

**Principal end-user(s):** Ngati Whatua Orakei

**Project 3:** Restoring the mauri to Rotoitipaku (industrial waste site): Implementing mātauranga in a scientific paradigm

**Principal end-user(s):** Ahu Whenua Trusts A8D, 39A4, A9, A11.

**Project 4:** Restoring the mauri to the Tarawera River

**Principal end-user(s):** Ngati Tuwharetoa ki Kawerau, Ngati Rangitahi.

**Research title:** Debris-flows in Matata

**Principal outcome:** Integrating mātauranga with science to elucidate debris-flow behaviour at Matata

**Principal end user(s):** Ngati Tuwharetoa (BoP), Ngati Rangitihi, Government

**Research title:** The Role of Indigenous Knowledge in Hazards & Disasters Research

**Principal outcome:** Investigating the role IK can play in increasing resilience

**Principal end user(s):** NZ communities, CDEM

**General research title:** Increasing Māori and Pasifika students engagement with science

**General Principal outcome:** Developing Māori and Pasifika students' confidence in speaking about science.

**Principal end-user(s):** Teachers and Māori and Pasifika students.

### **2c. Describe the commercial, social or environmental impact of your previous research work**

#### Restoring Mauri

Many hapū and iwi groups have been battling for decades for the opportunity and means to exercise manawhenua over their land and realize their role as kaitiaki. The restoration plans involved investigating and successfully navigating the integration of science and mātauranga. This research has transformed the trustees understandings of how environmental restoration can be achieved, as part of an overall restoration of mauri, and have the potential to make significant impact locally, nationally and globally.

#### Role of Indigenous Knowledge in Hazards and Disasters

This research is in its infancy but preliminary findings suggest that the increases in resilience for communities will be significant. The flow on effects of this research will have beneficial social and commercial impact.

#### Kaitiaki Geothermal Development Model

The original concept published in 2010 was picked up by the Te Ahi o Maui project and has greatly assisted the members of the joint venture—A&D Ahu Whenua trust, Eastland Group and International Development Group—reconcile differences in approach and understandings of a sustainable geothermal development. The impact of this research is still commercially sensitive, but promises to be significant.

#### Increasing Māori and Pasifika students engagement with science

This Teacher Led Innovation Fund project is being driven by Nick Pattison in collaboration with Dan Hikuroa at Rongomai Primary School using a concept developed by Dan Hikuroa and presented at the AERA Conference in 2012. The TLIF allows us to test the concept in a classroom setting.

### **2d. Demonstration of relationships with end-users**

Apparent in the projects above.

Independent scientific reviewer and advisor for ahu whenua groups in Kawerau, chair of the Te Mana Taiao Advisory Board that advises the Maniapoto Māori Trust Board on environmental matters, member of the Ngati Makino Research Advisory Group, Maniapoto Fishery Plan, trustee on the Kokopu Trust and have ongoing research relationships and projects with Ngati Rangitihi, Ngati Maniapoto, Nga Papaka o Rangataua and Ngati Whatua Orakei.

1a. Personal details				
Full name	Dr	Billie	Jane	Lythberg
Present position	Senior Research Fellow (since 2013)			
Organisation/Employer	Mira Szaszy Research Centre, University of Auckland			
Contact Address	Private Bag 92019			
	Auckland		Post code	1142
Work telephone		Mobile	0210439600	
Email	b.lythberg@auckland.ac.nz			

1b. Academic qualifications	
2011	Doctor of Philosophy in Art History and Anthropology, University of Auckland
2001	Graduate Diploma in Arts in Art History and Anthropology (UoA)
1997	Master of Arts (Hons) with First Class Honours in English and Māori Studies (UoA)
1994	Bachelor of Arts in English (UoA)

1c. Professional positions held	
2016	Lecturer & Course convenor—Anthropology and Property, Anthropology, UoA
2010-2013	Postdoctoral Research Fellow—Artefacts of Encounter Project (Arts and Humanities Research Council & Economic and Social Research Council), MAA CAM (UK)
2011	Lecturer & Course Convenor— <i>Taonga in Museums</i> , Museums and Cultural Heritage Studies, UoA
2010-2012	Research Associate—Te Atakura Project (Nga Pae o te Māramatanga), EIT, Tairāwhiti
2009-ongoing	Guest Lecturer—Anthropology of Art; Ethnographies of Island Polynesia, Anthropology, UoA
2008-ongoing	Guest Lecturer—Professional Writing and Marketing Strategies, Whitecliffe College of Arts and Design
2007	Course Tutor—Contemporary Pacific Arts, Art History, UoA
2006-2009	Collections Interpreter/Public Arts Project Manager/Heritage Exhibition Curator, Waitakere City Council
2005-2008	Artist Liaison/Exhibition coordinator/Writer, Pasifika Styles Exhibition, Cambridge University Museum of Archaeology and Anthropology (UK)
2005-2007	Research Assistant / Marsden Project PhD Student, UoA
2002-2005	Project Manager—James Hēnare Māori Research Centre, UoA

#### 1d. Present research/professional speciality

I am an interdisciplinary researcher working at the junction of economics, anthropology and history. My research interests include Oceanic sciences, arts and oral histories, cross-cultural theories of value, valuables and valuation; sustainability and environmental management. Recent research projects at

MSRC have considered approaches consistent with hau ora, kaitiakitanga and rangatiratanga and their application to: dairy farming; food sovereignty; water quality and industry pollution prevention plans. Other publications reflect my passion for ethnographic and taonga-based research; the foci of my two Royal Society of New Zealand Marsden projects.

<b>1e. Total years research experience</b>	(post-doctorate) 7 years
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<b>1f. Professional distinctions and memberships (including honours, prizes, scholarships, boards or governance roles, etc)</b>
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- 2016** NZ on Air Rautaki Māori Funding NZD \$1,200,000  
Concept creator and developer of documentary series ARTEFACT for Māori TV
- 2016** Andrew W. Mellon Foundation Travel Fellow (as SmARThistory Contributing Editor)
- 2016** Royal Society of New Zealand Marsden Fund NZD \$530,000  
Associate Investigator on Ancient Futures: late 18<sup>th</sup> and early 19<sup>th</sup> century Tongan arts and their legacies (2017-19), led by Phyllis Herda
- 2016** Appointed to editorial board of *Journal of Pacific History*
- 2016** Appointed affiliated researcher, Pacific Studies Research Group, AUT
- 2015** Invited Lecturer— Executive MBA in Aboriginal Business and Leadership, Simon Fraser University, British Columbia
- 2015** Appointed Contributing Editor for Arts of Oceania, SmARThistory— the official partner to Khan Academy for art history
- 2015** Royal Society of New Zealand Marsden Fund NZD \$685,000  
Research Fellow on Te Ao Hou: transforming worlds in New Zealand 1900–1950 (2016-18), led by Dame Anne Salmond
- 2015** Ludwig-Maximilians-University Munich  
Invited speaker grant, *Curatopia* symposium, 6–7 July 2015.
- 2013** Peter Wall Institute for Advanced Studies, University of British Columbia  
Invited speaker and fully-funded participant at ‘Artefacts of Encounter: Cross-Cultural Exchange in Historical and Interdisciplinary Perspective Workshop’, 11–14 April 2013.
- 2013** ICEHOUSE Funding award for Indigenous Social Enterprise Research NZD \$30,000
- 2012** American Museum of Natural History and Richard Gilder Graduate School, New York  
Collection Study Grant, UDS\$1500
- 2010 Team research grant of NZ\$281,000 from Ngā Pae o Te Maramatanga for the collaborative project *Te Ataakura*, led by Dr Wayne Ngata.
- 2009 Research Grant of GB£754,000 from the Economic and Social Research Council (UK), *Artefacts of Encounter*, led by Nicholas Thomas and Amiria Salmond.
- 2005–2007 Royal Society of New Zealand Marsden Project Doctoral Student, Cross-Cultural Voyaging, led by Dame Anne Salmond
- 2003–2005 New Zealand Foundation for Research, Science and Technology  
Bright Futures Top Achiever Doctoral Scholarship
- 1996 University of Auckland Maharaia Winiata Memorial Prize

<b>1g. Total number of peer reviewed publications and patents</b>	Journal articles	Books	Book chapters, books edited	Conference proceedings	Patents
	10	0	21	2	0

## PART 2

<b>2a. Research publications and dissemination</b>
Research project reports

Hēnare, M., **Lythberg, B.**, Horan, J., Nicholson, A., Longmuir, K. (2017). 'Understanding cultural drivers that impact on health disparities for Māori in Aotearoa-New Zealand', Report commissioned by Janssen NZ Ltd.

**Lythberg, B.**, Woods, C. and G. Thompson. (2016). 'Priorities to assist the development of Ruapotaka Marae Enterprise, Innovation and Sustainability', Report commissioned by Auckland Council.

**Lythberg, B.**, Woods, C. and T. Sanday. (2015). 'Taiao Makaurau—Looking after Pāpātuanuku', Report commissioned by Auckland Council.

**Lythberg, B.**, with T. Chilala and T. Sanday. (2015). 'Makaurau Marae—Auckland Council Placement: a marae-initiated and Māori-led collaboration with regional government', Report commissioned by Auckland Council.

Phillips, T., **Lythberg, B.** and C. Woods. (2014). 'Māori Farming Trusts—A Preliminary Scoping Investigation into the Governance and Management of Large Dairy Farm Businesses', Report commissioned by Dairy NZ and Ministry for Primary Industries (2014).

Hēnare, M., Starr, R. and **B. Lythberg.** (2014). 'Rākau ora, Rākau hau: Living Trees, Vitalised Trees—Māori aspirations for economic resilience in forestry and well-being in Northland', Report commissioned by "Building the business case for economic resilience in Northland: A new forest industry" (Scion 2014), a research programme funded by the Ministry for Primary Industries (MPI) through its Sustainable Farming/Forestry Fund (SFF).

Hēnare, M. and **B. Lythberg.** (2013). 'Northland Stories of Māori and Pākehā Engagement pre-1840', Report commissioned by New Zealand Historic Places Trust (2013).

#### Recent presentations:

**1 July 2017** 11<sup>th</sup> Conference of the European Society for Oceanists—'What do we photograph when we photograph a river?: on commonality and the 'uncommons''

**14 November 2016** Kai Marika, Ngā Pae o te Māramatanga pre-conference workshop, University of Auckland—Workshop convener and presenter

**1 June 2016** University of Auckland Anthropology seminar, NZ  
'Confounding categories: Toi Hauiti and their taonga'

**9–11 May 2016** 'He kai kei aku ringa'—'the food is in my hand': local and global perspectives of Indigenous peoples' food security in the context of climate change' —Convener, Food Sovereignty and Climate Change Symposium, University of Auckland.

**29 November 2015** EMBA in Aboriginal Business and Leadership Programme, Simon Fraser University, Canada —'"Social Contracts": developing, marketing and trade-marking Indigenous arts' with Jane Horan (UoA) via Skype.

**4 November 2015** The 12th Annual Social Entrepreneurship Conference (Stern Business School, NYU), USA—'Towards a human economy: reconsidering the legacies of *An Inquiry into the Nature and Causes of the Wealth of Nations* and *Theory of Moral Sentiments* to recontextualise social entrepreneurship' written with Jane Horan (UoA) and Christine Woods (UoA).

**10 August 2015** The 75<sup>th</sup> Academy of Management Conference, Vancouver, Canada—'The Māori marae as a structural attractor' written and presented with Mānuka Hēnare (UoA) and Christine Woods (UoA)

**26 June 2015** Conference of the European Society for Oceanists (Brussels), Belgium—'I am the river and the river is me' co-authored with Mānuka Hēnare (UoA), Chris Woods (UoA) and Tessa Chilala (Auckland Council)—presented by Lythberg.

#### Refereed conference proceedings

Hēnare, M., **Lythberg, B.**, Woods, C. (2014). Teaming with intent: harmonising heritage, innovation and multiple generations within the Māori entrepreneurial team. *The Business and Management Review*. IMRA-ABRM Conference Proceedings, Cambridge University, UK, 23-24 June 2014.

**Lythberg, B.** and A. Salmond (eds.) (2012). Digital Subjects, Cultural Objects. *Special Edition of the Journal of Material Culture* 17:3, proceedings of a workshop of the same name.

Peer-reviewed journal articles

**Lythberg, B. (2017).** 'Cut from the same cloth? 18<sup>th</sup> century barkcloth books at Pennsylvania Museum', *Expedition: The Magazine of the Pennsylvania Museum of Archaeology and Anthropology* 59.1:30–36.

**Lythberg, B. (2016).** '21<sup>st</sup> century South Sea Savagery: Rosanna Raymond's SaVAge K'lub at APT8', *Contemporary Visual Art and Culture Broadsheet* 45.1: 14–17.

**Lythberg, B.** and P. Herda. (2016). 'Ngatu'uli: exhibiting the fine art of contemporary Tongan black barkcloth in New Zealand', *Journal of Museum Ethnography* 29: 131–151.

Phillips, T., **Lythberg, B.** and C. Woods (2016). 'An introduction to the aspirations, governance and management challenges of Māori farming trusts', *Outlook on Agriculture* 45 (4): 246–253

**Lythberg, B. (2015).** 'Tocados emplumados en el Museo de América (Madrid) y el Weltmuseum (antiguo Museum für Völkerkunde, Viena)', *Anales del Museo de América, XXII 2014*: 142–152.

**Lythberg, B.** and G. Peterson. (2015). 'Indigenous Histories, Local Practices: Niu Pasifik Warriors', in *Journal of the Pacific Arts Association* 14 (1–2): 50–61.

**Lythberg, B.,** J. Newell and W. Ngata. (2015). 'Houses of stories: the whale rider at the American Museum of Natural History', in 'Museum education today: synergies and innovations in multicultural contexts', *Museum and Society* 13 (2): 195–220.

**Lythberg B.** and P. Herda (2014). 'Featherwork and Divine Chieftainship in Tonga', *Journal of the Polynesian Society* 123 (3): 277–300.

**Lythberg, B. (2013).** 'The American Museum of Natural History Anthropology Database', *Journal of Museum Ethnography* 26: 181–186.

**Lythberg, B. (2013).** 'Polyvocal Tongan barkcloths: contemporary ngatu and nomenclature at the Museum of New Zealand Te Papa Tongarewa', *Tuhinga: Records of the Museum of New Zealand Te Papa Tongarewa* (24): 85–104.

Peer reviewed book chapters, books edited

**Lythberg, B. (Forthcoming 2017).** 'From the monumental to minutiae: serialising Polynesian barkcloths in 18<sup>th</sup> century Britain', in *Explorations, Encounters, and the Circulation of Knowledge, 1600-1830*, A. Craciun and M. Terrall (Eds.). Toronto: Toronto University Press.

**Lythberg, B.,** Ngata, W. and A. Salmond. (Forthcoming 2017). 'Curating the uncommons: taking care of difference in museums', in *Curatopia: Museums and the Future of Curatorship*, C. McCarthy and P. Schorch (Eds.). Manchester: Manchester University Press.

Hēnare, M., **Lythberg, B.,** Nicholson, A. and C Woods. (2017). 'Te Ohu Umanga Māori: temporality and intent in the Māori entrepreneurial team', in *Research Handbook on Entrepreneurial Teams: Theory and Practice*, C. Ben-Hafiedh and T.M. Cooney (Eds.). London: Edward Elgar.

**Lythberg, B.,** Hogsden., C. and W. Ngata. (2017). 'Relational systems and ancient futures: co-creating a digital contact network in theory and practice', in *Engaging Communities (Heritage Matters series)*, B. Onciul, S. Hawke and M. Stefano (Eds.). London: Boydell and Brewer.

**Lythberg, B.,** Hēnare, M. and C Woods. (2016). 'When the river ran purple: reframing [Māori] economics in a global city', *Sustainable Entrepreneurship and Social Innovation*, K. Nicolopoulou, M. Karatas-Ozkan, F. Janssen and J. Jernier (Eds.). London & New York: Routledge, pp. 187–209.

**Lythberg, B. (2016).** 'Ka Awatea: a journey of life through light', in *Kōrero Mai, Kōrero Atu*, D. Skinner (Ed.) Auckland: Auckland War Memorial Museum, pp. 27–44.



Thomas, N., Adams, J., **Lythberg, B.**, Nuku, M., and A. Salmond. (Eds.) (2016). *Artefacts of Encounter: Cook's voyages, colonial collecting and museum histories*. Dunedin and Cambridge: Otago University Press and Cambridge University Museum of Archaeology and Anthropology.

**Lythberg, B.**, M. Nuku and A. Salmond. (2016). 'Artefacts of Encounter: Relating to, and through, Polynesian Collections', in *Artefacts of Encounter*, pp. 43–55.

— — — 6 x sole authored chapters in *Artefacts of Encounter*.

**Lythberg, B.**, M. Nuku and A. Salmond. (2016). 'An admirable typology', in *The Material Cultures of Enlightenment Arts and Sciences*, S. Schaffer and A. Craciun (Eds.). Palgrave Studies in the Enlightenment, Romanticism and Culture of Print Series. Series Editors A.K. Mellor and C. Siskin. London: Palgrave MacMillan, pp. 267–269.

**Lythberg, B.** (2016). 'Cataloguing Curiosities', in *The Material Cultures of Enlightenment Arts and Sciences*, pp. 153–156.

**Lythberg, B.** (2016). 'A Pacific macrocosm: *Les Sauvages de la Mer Pacifique*', in *The Material Cultures of Enlightenment Arts and Sciences*, pp. 207–210.

**Lythberg, B.** (2016). Consultant editor for 'Polynesia' chapter in *Historium*, curated By R. Wilkinson and J. Nelson. London: Big Picture Press (Templar Publishing), pp. 86–89.

**Lythberg, B.** (2013). 'Tonga', in *TAPA; Barkcloth paintings from the Pacific*, ed. N. Thomas. (Birmingham, Cambridge: Ikon Gallery, Cambridge University Museum of Archaeology and Anthropology).

**Lythberg, B.** and G. Peterson. (2010). 'Pacific Street Styles in Auckland', in *Berg Encyclopedia of World Dress and Fashion: Australia, New Zealand, and the Pacific Islands*, M. Maynard (ed.). Oxford: Berg, pp. 358-363.

**Lythberg, B.** (2008). 'Pasifika Styles; where the bellbird sings', in *Pasifika Styles: Artists inside the museum* R. Raymond and A. Salmond (eds), Dunedin and Cambridge: Otago University Press and Cambridge University Museum of Archaeology and Anthropology, pp. 37-48.

Other forms of dissemination (reports for clients, technical reports, popular press, etc)

**Digital outputs/ 'apps':**

*Path to Nationhood* mobile device application, with Mānuka Hēnare and New Zealand Historic Places Trust. (2014)

<http://www.heritage.org.nz/apps/path-to-nationhood>

Developer and researcher for **KIWA** digital research network at Cambridge University Museum of Archaeology and Anthropology, and **Te Rauata** digital research network at EIT Tairāwhiti (2010–ongoing)

**Exhibition Catalogues:**

**Lythberg, B.** (2014). *Tuku Iho—NZMACI exhibition in South America*. (Rotorua: New Zealand Māori Arts and Crafts Institute).

**Lythberg, B.** (2013). *Tuku Iho—NZMACI exhibition in China*. (Rotorua: New Zealand Māori Arts and Crafts Institute).

**Lythberg, B.** (2013). *Te Mahau: Ko Te Matatini*. (Rotorua: New Zealand Māori Arts and Crafts Institute).

**2b. Previous research work**

**Research title:** Janssen Māori Responsiveness

**Principal outcome:** Report on Māori outcome disparities across therapeutic areas addressed by Janssen Pharmaceuticals

**Principal end-user and contact:** Liz Naylor, Janssen NZ Ltd.

<p><b>Research title:</b> Kai Marika—Indigenous Food Sovereignty and Security  <b>Principal outcome:</b> Framework of collaboration with Michigan State University to enable student exchange and collaborative research  <b>Principal end-user and contact:</b> Kyle Whyte, Michigan State University; Mānuka Hēnare, UoA</p>
<p><b>Research title:</b> Haere Whakamua—marae-based social enterprise  <b>Principal outcome:</b> Report and case studies on the incorporation of Māori values in marae-based enterprise; recommendations for funding  <b>Principal end-user and contact:</b> Auckland Council; Ruapotaka Marae; Makaurau Marae</p>
<p><b>Research title:</b> Te Aho Alliance Research project  <b>Principal outcome:</b> Report for Waitangi Tribunal regarding the Te Aho Alliance areas of Northland, some 160 tribal claimants, to support claims made before the Waitangi Tribunal Hearings, Te Paparahi o Te Raki: Northland Inquiry.  <b>Principal end-user and contact:</b> Te Aho Claim Alliance; Waitangi Tribunal</p>
<p><b>Research title:</b> Māori farming Trusts  <b>Principal outcome:</b> Report and case studies of Māori values and aspirations in dairy farming  <b>Principal end-user and contact:</b> OneFarm (Waikato); Dairy NZ and Ministry for Primary Industries</p>
<p><b>Research title:</b> Building the business case for economic resilience in Northland: A new forest industry  <b>Principal outcome:</b> Report and case studies on the incorporation of Māori values in forestry  <b>Principal end-user and contact:</b> Scion 2014, through a research programme funded by the Ministry for Primary Industries (MPI) through its Sustainable Farming/Forestry Fund (SFF).</p>
<p><b>Research title:</b> Te Ataakura  <b>Principal outcome:</b> Digital taonga repository  <b>Principal end-user and contact:</b> Te Aitanga a Hauiti</p>
<p><b>Research title:</b> Industry Pollution Plan appraisal  <b>Principal outcome:</b> Report and publication about Auckland Council’s IPPP developed with two Auckland marae  <b>Principal end-user and contact:</b> Auckland Council; Makauarau and Ruapotaka maraes</p>
<p><b>Research title:</b> Path to Nationhood  <b>Principal outcome:</b> Report and app: Path to Nationhood mobile device application, with Mānuka Hēnare and New Zealand Historic Places Trust. (2014)  <a href="http://www.heritage.org.nz/apps/path-to-nationhood">http://www.heritage.org.nz/apps/path-to-nationhood</a>  <b>Principal end-user and contact:</b> NZ Historic Places Trust; local residents; tourists</p>

**2c. Describe the commercial, social or environmental impact of your previous research work**

These projects place Māori wellbeing at the forefront of their commissioning bodies’ attention. All focus on a ‘quadruple bottom line’ of economic, ecological, kinship and spiritual considerations. Impact of these projects spans national policy level—e.g. Waitangi Tribunal and Forestry reports; regional policy and funding levels—e.g. Auckland Council projects; to hapū level—e.g. Te Ataakura and associated projects, and Auckland marae.

The Haere Whakamua programme in particular has assisted Auckland Council to implement funding strategies that assist marae to develop enterprises identified by the marae members themselves; the IPPP analysis has impacted how IPPP are developed and delivered within communities. Janssen have invited further contribution as they reconsider their approach to Māori health.

#### 2d. Demonstration of relationships with end-users

Through the MSRC I am connected to the end-users of our larger research projects, with whom we meet and as and when appropriate. I continue to work with Makaurau and Ruapotaka marae in Auckland, as well as Te Aitanga a Hauiti, to implement project findings.

1a. Personal details				
<b>Full name</b>	<i>Title</i>	<i>First name</i>	<i>Second name(s)</i>	<i>Family name</i>
	Ms	Fiona	Kim	Wiremu
<b>Present position</b>	Executive Director			
<b>Organisation/Employer</b>	Te Whare Wānanga o Awanuiārangi			
<b>Contact Address</b>	Private Bag 1006			
	Whakatane			
			<b>Post code</b>	3120
<b>Work telephone</b>	07 306 3328	<b>Mobile</b>	027 55 00 751	
<b>Email</b>	<a href="mailto:fiona.wiremu@wananga.ac.nz">fiona.wiremu@wananga.ac.nz</a>			
<b>Personal website (if applicable)</b>	N/A			

#### 1b. Academic qualifications

Current study Masters of Business Administration, University of Waikato, Hamilton, New Zealand

2016 PgDip Business Administration, University of Waikato, Hamilton, New Zealand

2015 Bachelor of Management Studies, University of Waikato, Hamilton, New Zealand

#### 1c. Professional positions held

2015–Current Executive Director, Te Whare Wānanga o Awanuiārangi, Whakatane

2015–Current Lecturer, Bachelor of Humanities, Te Whare Wānanga o Awanuiārangi, Whakatane

2015, March 31–March 2013 Pou Mataaho Matua, Te Whare Wānanga o Awanuiārangi, Whakatane

2013, February–March 2011 Te Kaitakawaenga Matua, Te Whare Wānanga o Awanuiārangi, Whakatane

2011, February–2007, July Accountant—Finance & Systems, Te Whare Wānanga o Awanuiārangi, Whakatane

2007, June–2003 Senior Accountant/Management, Fonterra, Edgecumbe/Hamilton

2003–2002 Deputy Registrar, Department of Justice, Opotiki/Whakatāne

#### 1d. Present research/professional speciality

Māori social, cultural, economic and environmental well-being; Māori community development; whānau and hapū development.

<b>1e. Total years research experience</b>	1
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**1f. Professional distinctions and memberships (including honours, prizes, scholarships, boards or governance roles, etc.)**

Current–2017 Chairperson, Te Puna Ora o Mataatua, Whakatāne

2016–2013 Trustee, Te Puna Ora o Mataatua, Whakatāne

Current–2007 Advisory Trustee, Orangiteepu Lands Trust

<b>1g. Total number of peer reviewed publications and patents</b>	Journal articles	Books, book chapters, books edited	Conference proceedings	Patents
			4	

**PART 2**

**2a. Research publications and dissemination**

**Refereed Conferences**

Smith, G.H., Smith, C.W., **Wiremu, F.**, Tinirau, R., Smith, L. (2017, 23–25 August). Multiple Sites of Māori/ Indigenous Struggle in Aotearoa/ NZ. Paper presented at the S'TENISTOLW 2017—Indigenous Adult Education Conference, Camosun College, Victoria BC, Canada.

Smith, G.H., Gillies, A., **Wiremu, F.** (2017, 6–8 March). Unleashing Māori potential through “Transforming Māori Research”. Paper presented at the He Manawa Whenua Indigenous Research Conference, Te Kotahi Research Institute, University of Waikato, NZ.

Smith, G. H., Gillies, A. & **Wiremu, F.** (2016, 21–23 November). Persisting inequalities and the potential for intervention through “new” governance models. Presentation to the International Research Advisory Board, NPM, University of Auckland, NZ.

Smith, G. H., Gillies, A., Tinirau, R., Watson, H., **Wiremu, F.** & Smith, L. (2016, 15–18 November). Unleashing Māori potential: Critical understandings of the dialectic of “transforming iwi: transforming research”. Paper presented at the NPM 7th Biennial International Indigenous Research Conference, Waipapa Marae, University of Auckland, NZ.

**Academic research reports**

Smith, G.H., Gillies, A., **Wiremu, F.**, Mika, J.P., Puketapu-Watson, J. (2017). Tairāwhiti Māori Economic Development Report: Critical analysis and strategic options. Gisborne, New Zealand: Morley Design Group.

**2b. Current research work**

**Research title:** Persisting inequalities and the potential for intervention through “new” governance models

**Principal outcome:** Potential to reform current governance to assist in the intervention of high and dis-proportionate levels of ongoing inequality.

**Principal end user(s):** Post settlement iwi/hapū entities, whānau, hapū, iwi

**Previous research work**

**Research title:** Kimihia He Oranga: Tairāwhiti Māori Economic Development Report: Critical analysis and strategic options

**Principal outcome:** Funding for Tairāwhiti Māori economic development initiatives. Tairāwhiti Māori economic development report: Critical analysis and strategic options.

**Principal end user(s):** Tairāwhiti Tribal groups, government, regional and city councils, Te Puni Kōkiri

**2c. Describe the commercial, social or environmental impact of your previous research work**

- Examine some tensions between the individual and collective perspectives; Māori and non-Māori ways of doing things; financial and non-financial priorities and their impact on the cultural, social, environmental and economic imperatives of the whānau, hapū and iwi.
- Increased whānau awareness and participation in utilising whānau land for a range of economic activities that include the application of tikanga Māori culture, and values in the business models and practices. Individuals and groups have benefitted.
- Develop an awareness of the need to self-develop practical applied interventions.
- Create awareness for whānau to connect with their cultural assets (land), and illustrate opportunities for self-development.
- Building whānau confidence to undertake their own business initiatives and contribute to the Māori economy.

**2d. Demonstration of relationships with end-users**

- The research project was at a whānau, hapū and iwi level. Some of these relationships have continued beyond the life of a project.
- Networks in health, research, cultural, social, economic and environmental areas through priori and current work with whānau, hapū, iwi and professional bodies.
- Collegial relationships with other academics in other institutions nationally and internationally.
- Collegial relationships with community based researchers.
- Professional and networking relationships with local, regional, national and international bodies and associations.
- Involved through mokopuna to kohanga reo and kura kauapapa educators and providers.

1a. Personal details				
<b>Full name</b>	<i>Title</i>	<i>First name</i>	<i>Second name(s)</i>	<i>Family name</i>
	Dr	Hekia	Ellen Golden	Bodwitch
<b>Present position</b>	Research Assistant			
<b>Organisation/Employer</b>	University of California, Berkeley			
<b>Contact Address</b>	2605 Milvia St			
	Berkeley, CA			
	USA		<b>Post code</b>	94704
<b>Work telephone</b>	+1 315 567 9743		<b>Mobile</b>	+1 315 567 9743
<b>Email</b>	hekiabodwitch@berkeley.edu			

### 1b. Academic qualifications

- 2017                      Ph. D., University of California, Berkeley  
Department: Environmental Science, Policy and Management
- 2009                      Bachelor of Science, Cornell University, Ithaca, New York  
Major: Biology & Society.

### 1c. Professional positions held

- 2017                      Research Associate, Ngai Tahu Research Centre, University of Canterbury, Christchurch, New Zealand.
- 2017                      **Course Instructor**, *Americans and the Global Forest*, Department of Environmental Science, Policy and Management, University of California, Berkeley.
- 2016                      **Course Instructor**, *Professional Preparation: Teaching in Interdisciplinary Environmental Studies*, Department of Environmental Science, Policy and Management, University of California, Berkeley.
- 2016                      **Course Instructor**, *Edible Education*, Department of Environmental Science, Policy and Management, University of California, Berkeley.
- 2014 - 2015              **Visiting Scholar**, Ngāi Tahu Research Centre, Office of the Vice Chancellor,

University of Canterbury. Research on tribal economic development strategies through property rights obtained in Treaty of Waitangi settlements. Mentor: John Reid, PhD. Funding: United States' National Science Foundation Doctoral Dissertation Research Improvement Grant.

- 2013 **Visiting Scholar**, School for the Environment, University of Auckland, New Zealand. Research on the impacts of customary fishing reserves (*mataitai* and *taiapure*) on commercial fisheries' development. Mentor: Brad Coombes, PhD. Funding: United States' National Science Foundation East Asian Pacific Summer Institute.
- 2012 **Course Instructor**, *Sociology of Natural Resources*, Department of Environmental Science, Policy and Management, University of California, Berkeley.
- 2011 **Visiting Scholar**, Stout Centre for New Zealand Studies, Treaty of Waitangi Research Unit, Victoria University, Wellington, New Zealand. Research on barriers and opportunities for property rights re-allocations through Treaty of Waitangi settlements. Mentor: Richard Hill, PhD. Funding: United States' Social Science Research Council Dissertation Proposal Development Fellowship Program.
- 2011 **Course Instructor**, *Political Ecology*, Department of Environmental Science, Policy and Management, University of California, Berkeley.
- 2011 **Course Instructor**, *Society, Environment and Culture*, Department of Environmental Science, Policy and Management, University of California, Berkeley.
- 2010 **Course Instructor**, *Culture and Natural Resource Management*, Department of Environmental Science, Policy and Management, University of California, Berkeley.
- 2006 - 2009 **Research Associate**, iFyber LLC and Cornell University, Ithaca, New York. Research on methods to attach metal nanoparticles to fiber surfaces to generate conductivity and anti-bacterial properties in cotton and wool materials. Mentor: Juan Hinestroza, PhD.
- 2008 - 2009 **Research Associate**, Department of Natural Resources, Cornell University, Ithaca, New York. Research on strategies to improve local food system development in the Finger Lakes Region of Central New York State. Mentor: Jim Lassoie, PhD.

#### 1d. Present research/professional speciality

In my research, I examine how contemporary and historical resource governance initiatives impact the distribution of economic benefits and ecological burdens along food value chains. Alongside this, I investigate strategies employed by primary producers to adapt to conditions of restricted resource access. My research uses approaches from the fields of political ecology, indigenous studies, and feminist science studies.

Using these approaches, I aim to:

- 1) Understand how resource formalization and trade initiatives affect the economic development of rural communities.

- 2) Identify and disseminate analyses of strategies used by small and medium-sized producers to diversify production activities in ways that facilitate the distribution of economic benefits to underserved communities.

Community collaborations with communities are my starting point for research. Methodologically, I develop my inquiries in collaboration with primary producers who are not benefitting economically from existing governing initiatives.

I do this in order to understand how regulations can be made more equitable. I always first present my research findings to the communities I work with, and I incorporate their feedback into my writing and reports.

<b>1e. Total years research experience</b>	<b>11</b>
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<b>1f. Professional distinctions and memberships (including honours, prizes, scholarships, boards or governance roles, etc)</b>
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2016	<b>Food Literacy Advisor</b> University of California, Janet Napolitano
2015	Outstanding Graduate Student Instructor Award <b>University of California, Berkeley</b>
2014 – 2015	<b>Doctoral Dissertation Research Improvement Grant</b> National Science Foundation ( <i>\$15,999 + indirect costs</i> )
2014	<b>East Asia and Pacific Summer Institute, New Zealand</b> National Science Foundation ( <i>\$5,000 plus travel expenses</i> )
2013	<b>Edward A. Coleman Fellowship in Water Management</b> University of California, Berkeley ( <i>\$10,500 plus tuition and fees</i> )
2012 – 2013	<b>Delegate to the Graduate Assembly</b> Department of Environmental Science, Policy and Management, University of California, Berkeley
2012	<b>Field Research Grant</b> University of California, Berkeley ( <i>\$3,500</i> ).
2011	<b>Dissertation Proposal Development Fellowship in Global Indigenous Politics</b> Social Science Research Council ( <i>\$4,000 plus travel expenses</i> )
2011	<b>Human Rights Field Research Fellowship</b> University of California, Berkeley ( <i>\$5,000 plus travel expenses</i> )
2010	<b>Center for Race and Gender Studies Field Research Grant</b> University of California, Berkeley ( <i>\$500</i> )
2009 – 2010	Student-Faculty Liaison <b>Department of Environmental Science, Policy and Management, University of California, Berkeley</b>



<b>1g. Total number of peer reviewed publications and patents</b>	Journal articles	Books	Book chapters, books edited	Conference proceedings	Patents
	2			11	

## PART 2

### 2a. Research publications and dissemination

#### Peer-reviewed journal articles

Bodwitch, H. (2017). **Challenges for New Zealand’s individual transferable quota system: Processor consolidation, fisher exclusion, & Māori quota rights.** *Marine Policy*, 80, 88–95.

Bodwitch, H.E.G. (2014). **Why feminism? How feminist methodologies can aid our efforts to ‘give back’ through research.** *Journal of Research Practice*, 10(2), 1–9.

#### Peer reviewed books

#### Refereed conference proceedings

Native American and Indigenous Studies Association, *Vancouver, British Columbia*. June 2017.  
Paper: Traditional economic knowledge for environmental governance in Aotearoa/New Zealand

American Association of Geographers, *San Francisco, California*. April 2016.  
Paper: “Property is not Sovereignty: Indigenous Rights and Market Access in Aotearoa/New Zealand.”

Native American and Indigenous Studies Association, *Washington, DC*.  
June 2015.  
Paper: “Sell or subsidize? The employment, governance, and food security effects of strategies to allocate fishing quota to individual tribal fishers.”  
Panel organizer: “Indigeneity and Capitalism.”

North American Association of Fisheries Economists Forum, *Ketchikan, Alaska*.  
June 2015.  
Paper: “Social Class Differentiations and the Regulation of Coastal Resources in New Zealand.”

International Institute of Fisheries Economics and Trade, *Brisbane, Australia*.  
July 2014.  
Paper: “Fisheries Sustainability Challenges Embedded in Individual Transferable Quota Systems: Knowledge, Technology and Indigenous Fisheries Development in New Zealand.”

Native American and Indigenous Studies Association, *Austin, Texas*. June 2014. Paper: "Settlements, sovereignty and fish for tea," on panel (co-organizer): "Knowledge, power, land: Asserting Indigenous authority through state resource institutions."

American Association of Geographers, *Los Angeles, California*. April 2013.

Paper: "Performing knowledge and controlling territory in Aotearoa/New Zealand," on panel (organizer & chair): "Contested landscapes and Indigenous Peoples: Knowledge, Territory, and Sovereignty." Panel session: "Conservation Governance."

American Society for Ethnohistory, *Springfield, Missouri*. November 2012.

Paper: "Breaking and building boundaries: Indigenous/state relations and governing carbon in New Zealand," on panel: "Disasters and Property Regimes in Native North America and Aotearoa/New Zealand"

Native American and Indigenous Studies Association, *Uncasville, Connecticut*.

June 2012.

Panel: "Shaping sovereignty: Treaty settlements and state territorialization in Aotearoa/New Zealand," on panel (organizer): "Natural Resource Management and Indigenous Peoples: Knowledge, Territory and Sovereignty"

Mendocino Sonoma Tribal Environmental Programs Meeting, *Ukiah, California*.

April 2011.

Presentation: "Strategies used by Tribes for Negotiating Rights to resources in Aotearoa/New Zealand."

University of California, Berkeley Human Rights Conference, *Berkeley, California*. November 2011.

Paper: "Re-distributing resources, re-shaping state power, Settlement of Māori claims in Aotearoa/New Zealand."

Other forms of dissemination (reports for clients, technical reports, popular press, etc)

Bodwitch, Hekia. 2013. "**Analysis of Tribal Claims to Water Rights in Australia, United States, and Canada.**" Report Prepared for Ngati Makino.

Bodwitch, Hekia, Tun Lin Moe, Anna Read, Natalie Thomson, Courtney Wallace. 2008. "**Building Local Food Systems in the Finger Lakes Region,**" Publication of the Eco Agricultural Working Group at Cornell University. <http://ecoag.cals.cornell.edu/publications.html>.

## 2b. Previous research work

Ph.D. Dissertation: Property is Not Sovereignty: Barriers to Indigenous Economic Development in Aotearoa/New Zealand's Fisheries.

## 2c. Describe the commercial, social, or environmental impact of your previous research work

**Dissertation Research:** Working with Māori fishers, I identified specific market diversification

strategies, including direct to consumer sales and targeting of high-end markets, that overcome constraints on economic development by increasing the economic benefits fishers obtain from fish sales.

### 2c. Describe the commercial, social, or environmental impact of your previous research work

**Legal Research: Indigenous Water Rights:** In 2013, I developed a report for the Ngati Makino tribe on strategies used by indigenous groups in the United States, Canada, Australia, and New Zealand to use aboriginal title rights to keep water in rivers. The case was successful, and since the report has been circulated to indigenous groups in New Zealand and California.

**Tribal Economic Development: *Iwi* Fishing Rights:** From 2014–2015 I collaborated with employees working on *iwi* economic development through Ngāi Tahu Seafood and Ngāi Tahu’s Ahika Kai program to identify how quota rights obtained in treaty settlements can be used to support small-scale fishing community economic development. I will continue this work in August 2017.

**Undergraduate and graduate education:** I mentor, organize field trips, instruct, and lecture for undergraduate and graduate students at the University of Canterbury and the University of California, Berkeley.

### 2c. Demonstrate your relationships with end users

(2015–2016) **Indigenous Community Outreach & Extension**, Ngāi Tahu Research Centre, University of Canterbury, Christchurch, New Zealand.

(2013) **Indigenous and Environmental Law Research Collaborative**, Karuk Tribe Department of Natural Resources, Happy Camp, California, and the University of California, Berkeley, Law School.

(2013) **Diversity in Interdisciplinary Environmental Sciences Symposium**, Department of Environmental Science, Policy & Management, University of California, Berkeley.

(2010) **Global Indigenous Politics Action-Research Workshop**, Mohegan tribal territory, Uncasville, Connecticut.

1a. Personal details				
<b>Full name</b>	<i>Title</i>	<i>First name</i>	<i>Second name(s)</i>	<i>Family name</i>
	Ms	Mylene	M D	Rakena
<b>Present position</b>		Research Centre Manager		
<b>Organisation/Employer</b>		University of Waikato		
<b>Contact Address</b>		Private Bay 3105		
		Hamilton		
			<b>Post code</b>	3240
<b>Work telephone</b>	838 4466 6727 xtn		<b>Mobile</b>	0273556198
<b>Email</b>	mrakena@waikato.ac.nz			

#### 1b. Academic qualifications

2008 Golden Key Membership  
2013 Bachelor of Law (Second Class Honours (first division) *Waikato*.  
2013 Bachelor of Management (First Class Honours Major in Human Resource Management) *Waikato*.  
2014 Enrolled Barrister/Solicitor of High Court of New Zealand.  
2015 Master of Management Major—Leadership and communication, Corporate Affairs, (First Class Honours with Distinction) *Waikato*.

#### 1c. Professional positions held

2017– Part Time Law Lecturer/Research Centre Manager  
2015–2016 Research Centre Manager, University of Waikato.  
2011–2014 Māori Liaison for Te Piringa—Faculty of Law, University of Waikato.

#### 1d. Present research/professional speciality

Excellent Māori and Indigenous governance  
Māori Governance Training  
Post Treaty Settlement Governance Models.  
Treaty of Waitangi—A model for decision making.  
Critical discourse analysis on Laws that impact on Māori.  
The Marine and Coastal Area (Takutai Moana) Act 2011 and excellent Māori governance.

<b>1e. Total years research experience</b>	3 years
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#### 1f. Professional distinctions and memberships (including honours, prizes, scholarships, boards or governance roles, etc)

1984–1996—12 years Trustee for School Boards – (Primary, Middle School).

2008—Invitation to become Golden Key Club Member—Top 15% of Academic Excellence across all faculties of University of Waikato. Scholarships: Māori Excellence Award, University

of Waikato; Tai Tokerau Board Scholarship of Academic Excellence, Te Runanga A Te Iwi, for undergraduate academic excellence; Te Piringa Outstanding Contribution to Law for Māori Aspirations, University of Waikato.

2009—Invitation to join Te Piringa Faculty of Law Honours Programme. Scholarships: Māori Excellence Award, University of Waikato; Te Piringa Outstanding Contribution to Law for Māori Aspirations, University of Waikato.

2010—Scholarship: Nga Pae Te Maramatanga Internship Scholarship for Research Methodologies; Post Graduate Māori Excellence Award, University of Waikato.

2011—Invitation to join School of Management Honours Programme. Scholarships: Inaugural Tāwera Putea Business School in Management, Te Runanga A Te Iwi for post-graduate academic excellence.

2012—Top Outstanding Management Student, Letter from Dean, ‘A’ average.

2007–2015—J Reuben Clarke Law Foundation, Member

2007–2015—Te Hunga Roia Māori—Māori Lawyers Society Inc., Member

2010–2015—Acting Chair/Trustee for Te Orewai Te Horo Trust, Whangarei.

<b>1g. Total number of peer reviewed publications and patents</b>	Journal articles	Books, book chapters, books edited	Conference proceedings	Patents
		2	1	

New Zealand Transport Agency: “Best practice approaches for the development of legislation” (2015). Report.

Te Pae Tawhiti—Exploring the Horizons of Māori Economic Performance, Final Report (2016). Nga Pae o Te Maramanga.

2014—Presented “Success enablers and barriers for Māori Law Students”, World Indigenous People’s Conference on Education, Hawaii.

2016—Presented “Te Pae Tawhiti: Exploring the Horizons of Māori Economic Performance through effective collaboration” at Nga Pae O te Maramatanga International Indigenous Research Conference, 13–16 November 2016, Auckland, New Zealand.

2017—Presented “Te Pae Tawhiti: Exploring the Horizons of Māori Economic Performance through effective collaboration” at 2017 Common Roots, Common Futures International Indigenous Governance Conference, 31 March–3 March 2017. Brisbane, Australia.