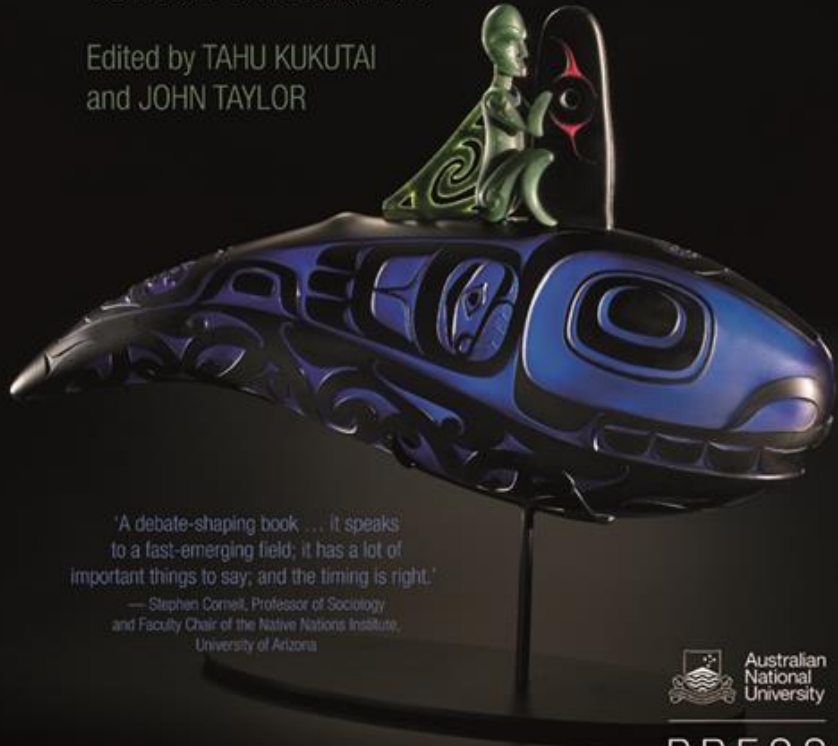


INDIGENOUS DATA SOVEREIGNTY

TOWARD AN AGENDA

Edited by TAHU KUKUTAI
and JOHN TAYLOR



'A debate-shaping book ... it speaks to a fast-emerging field; it has a lot of important things to say; and the timing is right.'

— Stephen Cornell, Professor of Sociology
and Faculty Chair of the Native Nations Institute,
University of Arizona



PRESS

Te Mana Raraunga: Building an Indigenous Data Sovereignty Network in Aotearoa/New Zealand

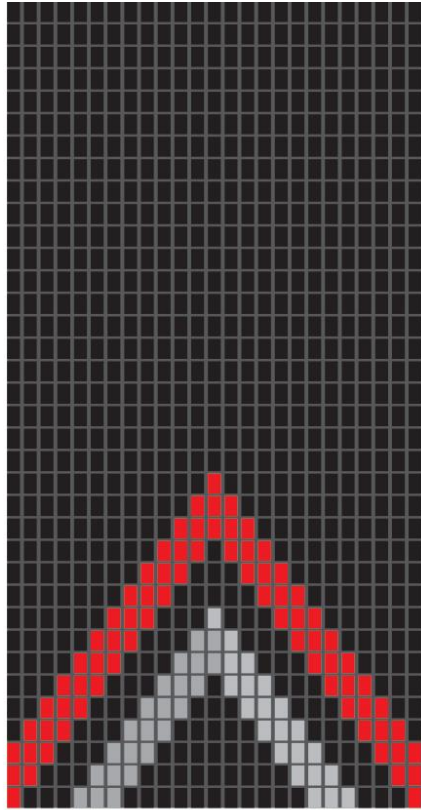
Associate Professor Maui Hudson & Professor Tahu Kukutai

International Data Week: SciDataCon 2018

Gabarone, Botswana

ISBN 9781760460303 (Print) ISBN 9781760460310 (Online) CAEPR RESEARCH MONOGRAPH NO. 38

This book is available to download for free or hard copies are available to purchase from:
press.anu.edu.au/publications/series/centre-aboriginal-economic-policy-research-caepr/indigenous-data-sovereignty



TE MANA RARAUNGA

Māori Data Sovereignty Network

Advocating for the development of capacity and capability across the Māori data ecosystem including:

- Data rights and interests
- Data governance
- Data storage and security
- Data access and control

THE VALUE OF DATA: WHERE IS THE VALUE FOR US?

Unleashing the power of data to change lives

Statistics New Zealand's purpose is to empower decisions by adding value to New Zealand's most important data.

A world where knowledge creates power for the many, not the few.

Open Knowledge Australia

NEW ZEALAND DATA FUTURES FORUM

NZ IS A WORLD LEADER IN THE TRUSTED USE OF SHARED DATA TO DELIVER A PROSPEROUS, INCLUSIVE SOCIETY.

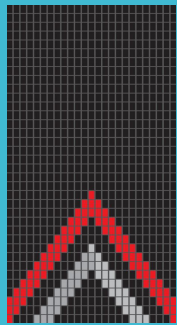
Watson Health

Welcome to the cognitive
era of health

A New Partnership Between Humanity and Technology

It's time to transform health with new ways of working to improve approaches to care, productivity and well-being. Watson Health's cognitive systems understand, reason and learn – helping to translate information into knowledge that can help drive more informed decision-making. With cognitive computing, we can see and analyze more data than ever before – and achieve more than we ever thought possible.

Development of Te Mana Raraunga: Maori Data Sovereignty Network



**'Indigenous Data Sovereignty'
workshop in Canberra
June 2015**

**Statistics NZ workshop on
'Māori and Statistics'
August 2015**



ASSA Canberra 2015

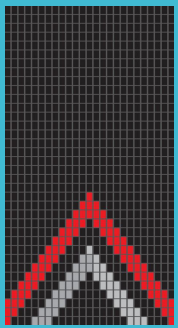
**Convened hui to establish
Te Mana Raraunga
October 2015**



**Hui to ratify a charter for
Te Mana Raraunga
April 2016**

**Hui to develop a strategy
for Te Mana Raraunga
June 2016**

Charter: Purpose



The purpose of Te Mana Raraunga is to enable Māori Data Sovereignty and to advance Māori aspirations for collective and individual wellbeing by:

1. asserting Māori rights and interests in relation to data,
2. ensuring data for and about Māori can be safeguarded and protected,
3. requiring the quality and integrity of Maori data and its collection,
4. advocating for Māori involvement in the governance of data repositories,
5. supporting the development of Māori data infrastructure and security systems,
6. supporting the development of sustainable Māori digital businesses and innovations.



International ID-Sov Summit
Auckland 2016

He whenua hou, Te Ao Raraunga, Te Ao Raraunga, He whenua hou
Data is a new world, A world of opportunity

nā Kirikowhai Mikaere

HOME ABOUT US



ACTIVITIES JOIN US

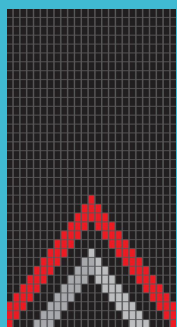
MĀORI DATA SOVEREIGNTY NETWORK

HOME

Our Data, Our Sovereignty, Our Future

<https://www.temanararaunga.maori.nz>

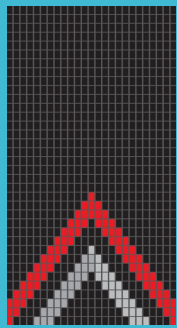
What is Te Mana
Raraunga working on
now?



Supporting Tribal Advocacy: DATA Iwi Leaders Group

Purpose	Goals
<p>Our Shared Kaupapa Focus and drive our strategy</p> <p>WHAT: Full, free access and control over data about and for Iwi</p>	<p>INFORMATION</p> <p>Access and governance over iwi data</p>
<p>WHY: For data to empower our development as Iwi</p>	<p>TRANSLATORS</p> <p>Enhance and build our capability to engage, use & design data</p>
<p>Our Shared Values Guide our execution</p> <p>RANGATIRATANGA: Our right to self-determine what happens with our data.</p> <p>PUKENGATANGA: Utilise expertise to help make smart, informed decisions.</p> <p>KOTAHITANGA: He painga mo te katoa. Collaboration & working together for the greater good of all Iwi.</p> <p>KAITIAKITANGA: Our guardianship, protection & the ability to improve outcomes for our people & place, informed by data.</p>	<p>INFRASTRUCTURE</p> <p>Future-proof the information infrastructure for iwi data</p>

Engaging in Policy Development

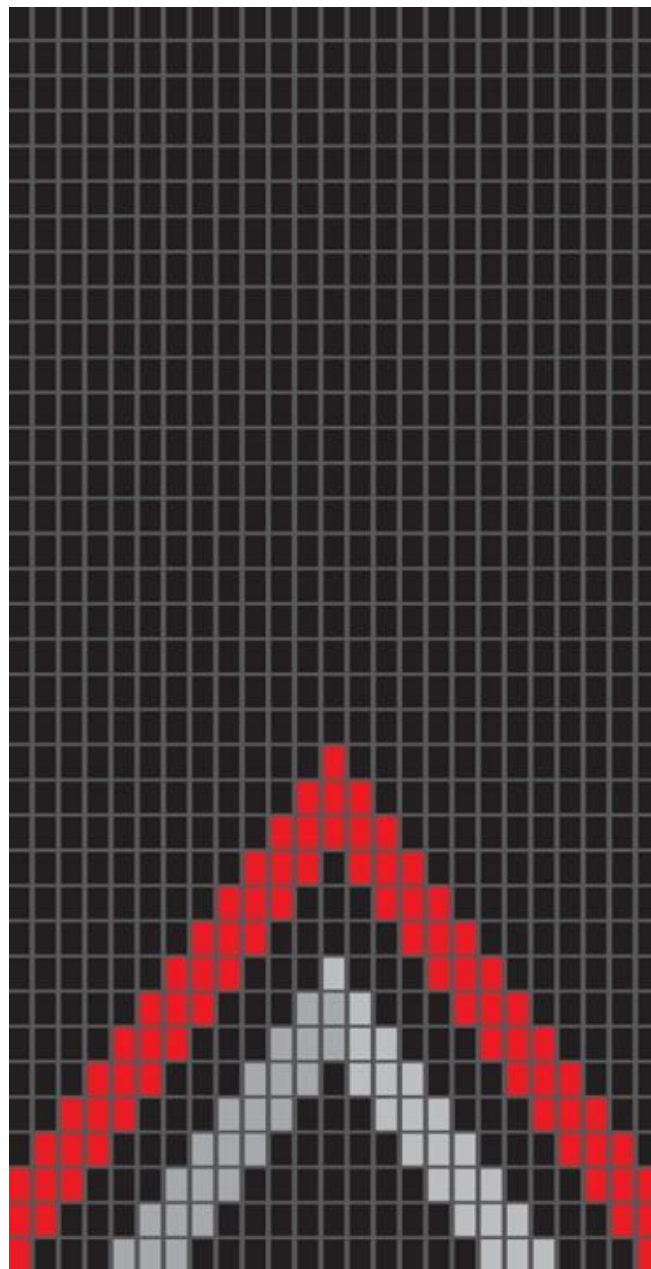
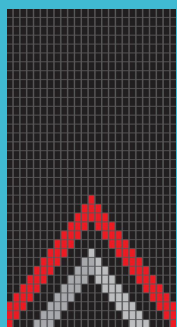


1. Influencing the wider data ecosystem
2. Building Māori/Iwi capacity and control
3. Engaging with opportunities in data and technology



Workshops:

Agency approaches to Data Governance



Te Mana Raraunga Agency Approaches to Data Governance

9.00 Mihi / Whakawhanaungatanga

9.30 *Kapu tī*

10.00 Te Mana Raraunga: Introduction to Māori Data Sovereignty and Māori Data Governance

11.00 Workshop: IDI 5Safes

12.30 *Kai*

01.00 Workshop: SIA Data Protection and Use Policy

02.00 Workshop: MSD Privacy, Human Rights and Ethics Framework

03.00 *Kapu tī*

03.30 Engaging with Te Mana Raraunga

04.30 Whakawātea

Thursday 23 August 2018

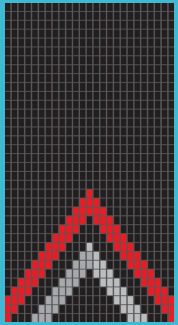
Rangimarie Room 2, Te Papa Museum, Wellington

**travel assistance is available for community representatives*

***please register on [eventbrite.co.nz](https://www.eventbrite.co.nz), search "Te Mana Raraunga"*

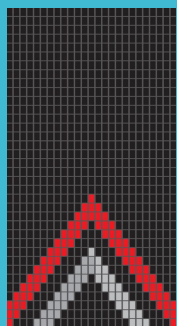
Network meetings:

Data from a Maori worldview



- All data are **taonga**
 - Intrinsic **mana** – inherent value of data (all data are **taonga**)
 - Extrinsic **mana** – valued for specific purposes (**taonga** is as **taonga** is used)
- Ensure the **mana** and **mauri** of the **taonga** are intact
 - Clear expectations around how the data should be treated
 - Separation of data from source (Concept of **tūā** cutting of umbilical cord)
- **Taonga** are **tapu** / data need to be managed
 - How do we define data that are **tapu**?
 - **Kaitiakitanga** through **kawa/tikanga**
 - Consistent with principles of **manaakitanga**, **wairuatanga**
 - Dedicate data for specific purposes (**pure**)

Māori Data Sovereignty Principles



Principles of Māori Data Sovereignty

Brief #1 | October 2018



This Te Mana Raraunga (TMR) Brief provides a general overview of key Māori Data Sovereignty terms and principles.

TMR advocates for the realisation of Māori rights and interests in data¹, and for the ethical use of data to enhance the wellbeing of our people, language and culture.

"He rei ngā niho, he paraoa ngā kauae"

"One must have the right principles for important endeavours."

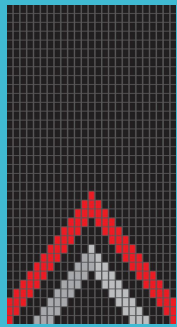
Definition of terms

- Māori data refers to digital or digitisable information or knowledge that is about or from Māori people, our language, culture, resources or environments.
- Māori Data Sovereignty refers to the inherent rights and interests that Māori have in relation to the collection, ownership, and application of Māori data.
- Māori Data Governance refers to the principles, structures, accountability mechanisms, legal instruments and policies through which Māori exercise control over Māori data.

¹ Māori rights and interests in data derive from our inherent rights as indigenous peoples, and unique relationships with land, water and the natural world. These rights are recognised in Te Tiriti o Waitangi and the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP).

- ✓ **Authority**
- ✓ **Relationships**
- ✓ **Obligations**
- ✓ **Collective benefit**
- ✓ **Reciprocity**
- ✓ **Guardianship**

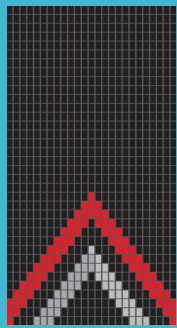
Tools: Maori Data Audit Tool



1. Does the agreement recognise Māori Data?
 - a. Is the Māori data definition consistent with the Te Mana Raraunga charter
 - b. Is ethnicity data collected
 - c. Is Iwi affiliation collected
2. Does the data sharing agreement allow the creation of additional Māori-specific/iwi-specific data sets?
3. Does the agreement recognise Treaty relationships?
4. Does the agreement recognise Māori rights to data and interests in data?
5. What mechanisms are in place to protect Māori data? (eg quality, security, privacy, confidentiality)
6. What mechanisms are in place to safeguard the use of Māori data?
7. Is the agreement specific about the purpose and use of data?
8. To what extent are the TMR principles given effect to?

(Atatoa-Carr & Hudson, 2017)

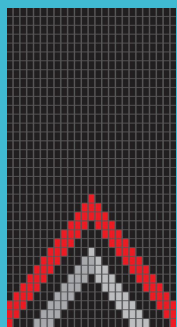
Tools: Data Assessment Tool



- This needs to be done in conjunction with Iwi / Māori Treaty Partners
- **Provenance** of the data
 - *Does the dataset come from a significant source?*
- **Opportunity** for the data
 - *Can the dataset support Māori aspirations for their people or their whenua?*
- **Utility** of the data
 - *Does the dataset have multiple uses?*

Hudson, M., Anderson, T., Dewes, T.K., Temara, P., Whaanga, H., Roa, T. (2018). *He Matapihi ki te Mana Raraunga: Conceptualising Big Data through a Maori lens*. In H. Whaanga, T. T. Keegan, T. T., & M. Apperley (Eds.) (2018), *He Whare Hangarau Māori - Language, culture & technology [Ebook]* (pp. 62-71). Hamilton: Te Pua Wānanga ki te Ao, Te Whare Wānanga o Waikato.

Tools: Cultural protocols to inform the secondary use of data

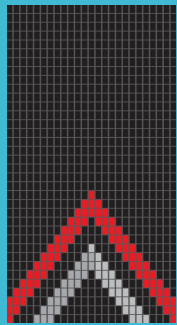


Concept	Characteristic	Assessment Question
Tapu	<i>Level of sensitivity</i>	<i>"How sensitive is the data?"</i>
Noa	Level of accessibility	"How accessible should this data be?"
Tika	<i>Level of value</i>	<i>"How does the use of this data add value to the community?"</i>
Pono	Level of trust	"Will the community support this use of the data?"
Mauri	<i>Level of originality</i>	<i>"How unique is the data?"</i>
Wairua	Nature of the application	"Is the data being used in the same spirit as its original use?"
Whakapapa	<i>Level of relationship</i>	<i>"Does the user have an existing relationship with the data?"</i>
Pukenga	Level of expertise	"Does the user have the expertise and experience to use data in a culturally appropriate manner?"
Kaitiaki	<i>Level of authority</i>	<i>"Will the data be protected from inappropriate use?"</i>
Wananga	Level of responsibility	"Does the institution have the necessary infrastructure to ensure the use of the data in a culturally appropriate and ethical manner?"

Hudson, M., Anderson, T., Dewes, T.K., Temara, P., Whaanga, H., Roa, T. (2018). *He Matapihi ki te Mana Raraunga: Conceptualising Big Data through a Maori lens*. In H. Whaanga, T. T. Keegan, T. T., & M. Apperley (Eds.) (2018), *He Whare Hangarau Māori - Language, culture & technology [Ebook]* (pp. 62-71). Hamilton: Te Pua Wānanga ki te Ao, Te Whare Wānanga o Waikato.

International Advocacy:

- Conferences
- Summits
- Research Data Alliance
- Open Data Charter



Open Data Summit Madrid 2016



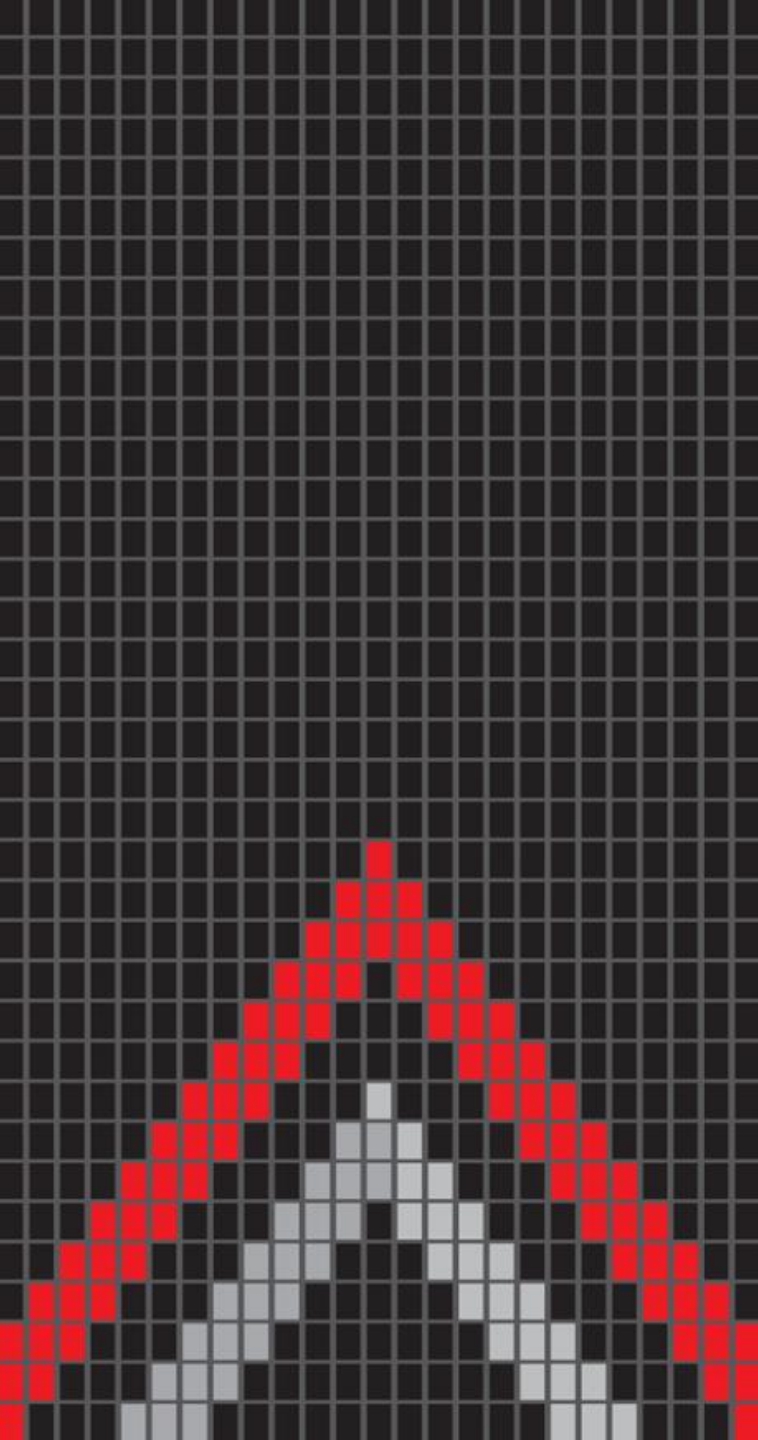
NAISA Conference 2016



UCLA workshop 2017



NAISA Conference 2018



TE MANA
RARAUNGA
Māori Data Sovereignty Network