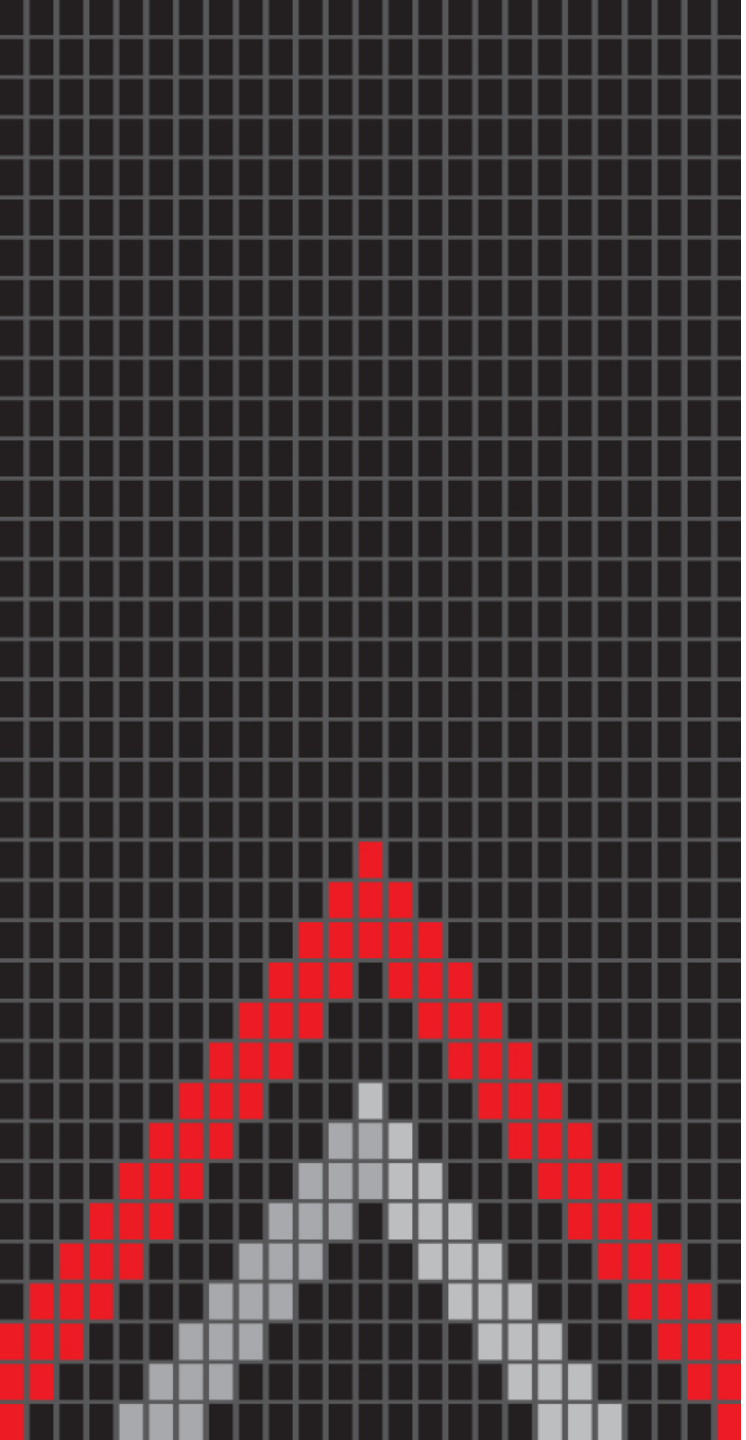


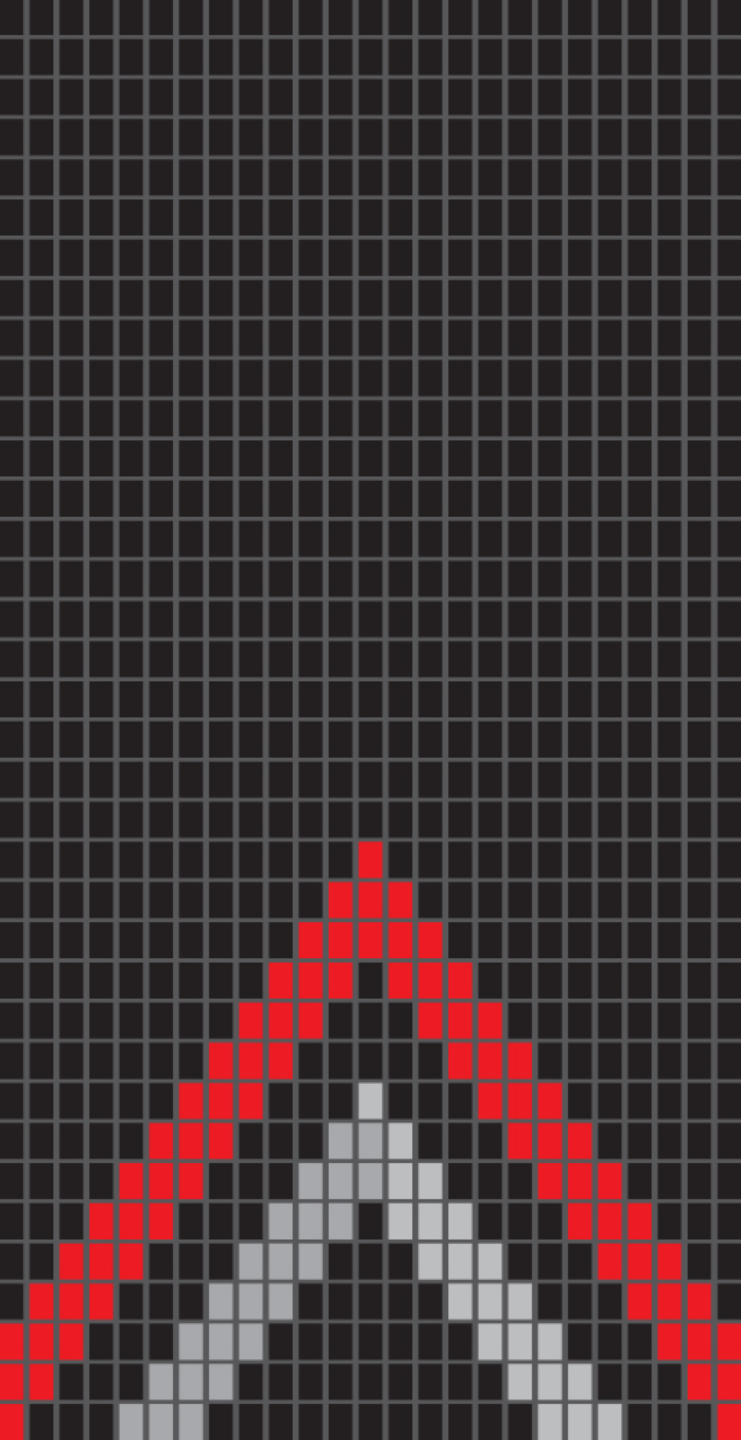
Te Mana Raraunga: Maori Data Sovereignty Network

Agency Approaches to Data Governance

Stats NZ Tatauranga Aotearoa

SIA Social Investment Agency Oranga Tangata

Ministry of Social Development Te Manatū Whakahiato Ora



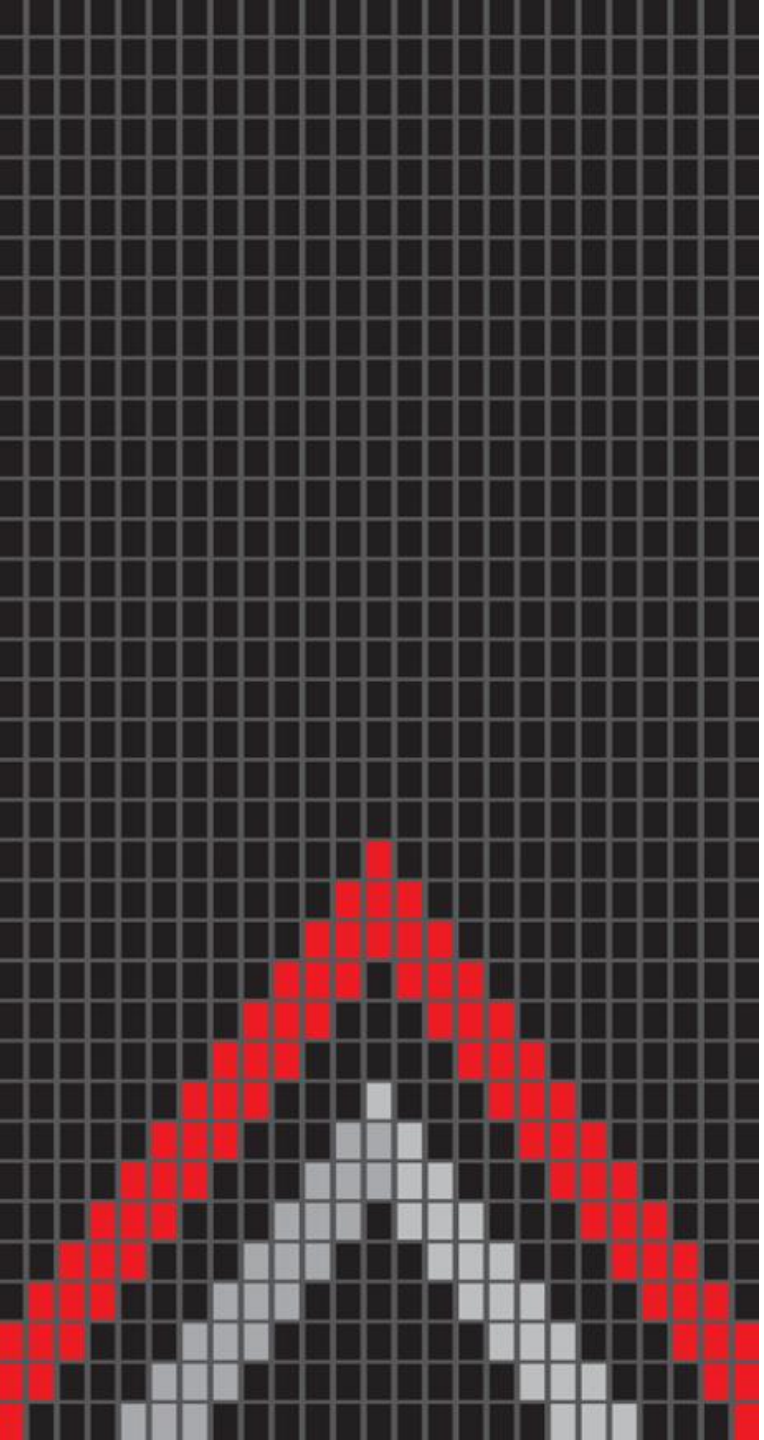
Te Mana Raraunga

Agency Approaches to Data Governance

9.00	**Mihi / Whakawhanaungatanga**
9.15	**Te Mana Raraunga: Introduction to Māori Data Sovereignty and Māori Data Governance** **Stats NZ: Context for Maori Data Governance**
10.30	*Kapu tī*
11.00	**Maori Data Governance: A Co-Design Approach** **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



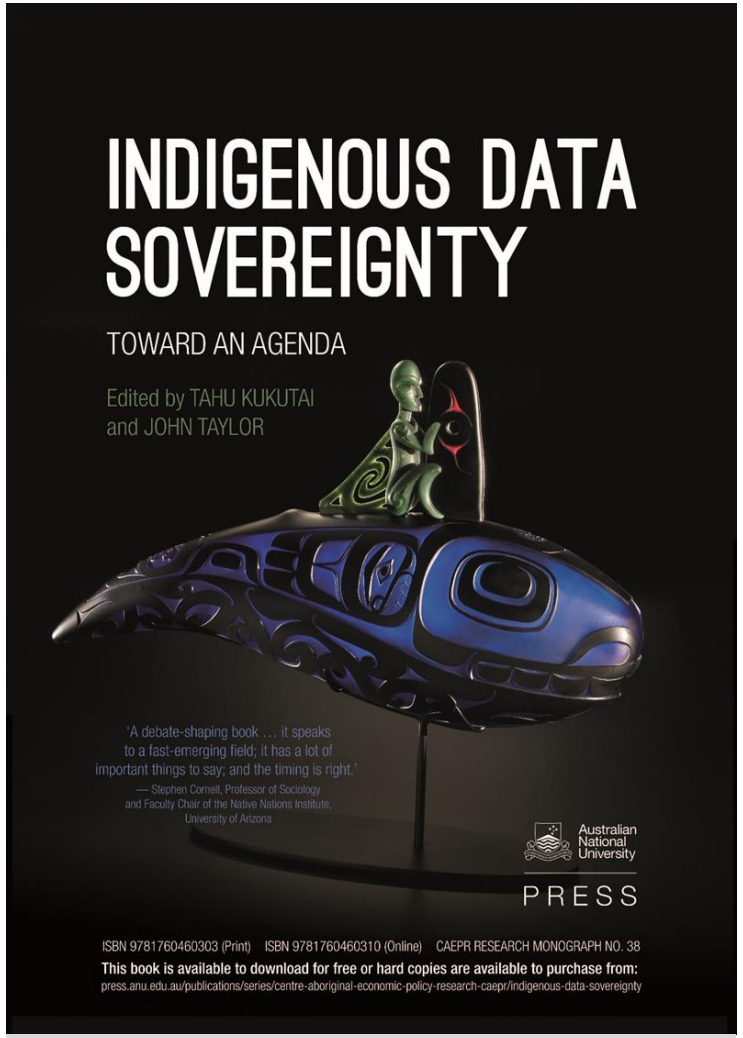
Overview of Māori Data Sovereignty & Māori Data Governance

Te Mana Raraunga 2018

Indigenous Data Sovereignty

Data Sovereignty states that data is subject to the laws of the nation **within which it is stored**

Indigenous Data Sovereignty states that data is subject to the laws of the nation **from which it is collected** (including Tribal nations)



Free to download From ANU press

A COMMITMENT TO INDIGENOUS DATA SOVEREIGNTY (IDS) SPANS THE GLOBE

NATION-STATE BASED, INDIGENOUS LED COMMUNITIES OF PRACTICE

- TE MANA RARAUNGA MĀORI DATA SOVEREIGNTY NETWORK in Aotearoa/New Zealand

TE MANA RARAUNGA
Māori Data Sovereignty Network

- UNITED STATES INDIGENOUS DATA SOVEREIGNTY NETWORK

USIDSN

- MAIAM NAYRI WINGARA ABORIGINAL AND TORRES STRAIT ISLANDER DATA SOVEREIGNTY COLLECTIVE in Australia

Maiam nayri Wingara

- EMERGING NETWORKS:
  FIRST NATIONS, INUIT AND MÉTIS in Canada,
  SAMI/SÁPMI in Sweden

Development of Te Mana Raraunga

'Indigenous Data Sovereignty' workshop in Canberra
June 2015

ASSA Canberra 2015

Statistics NZ workshop on 'Māori and Statistics'
August 2015

Convened hui to establish Te Mana Raraunga
October 2015

International ID-Sov Summit
Auckland 2016

Hui to ratify a charter for Te Mana Raraunga
April 2016

Hui to develop a strategy for Te Mana Raraunga
June 2016

Te Mana Rauranga

Māori Data Sovereignty Network

Sectors represented

Tribal

Governance
Tribal data
Tribal enrolments
Advocacy

Business

Business data
Digital business
Health Service

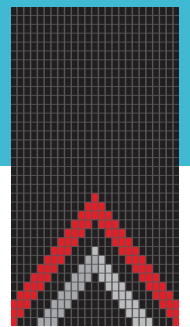
Academic

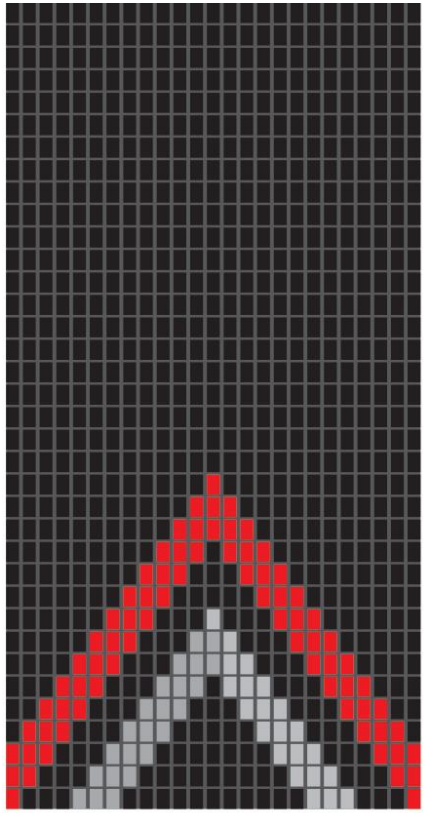
Demography
Health Statistics
Indigenous knowledge

Te Mana Raraunga Charter

…to enable Māori Data Sovereignty and to advance Māori aspirations for collective and individual wellbeing by:

1. **asserting Māori rights and interests**
2. ensuring data for and about Māori is **protected**,
3. requiring the **quality and integrity of Māori data**
4. Māori involvement in the **governance of data**
5. development of **Māori data infrastructure**
6. development of sustainable **Māori digital innovations.**





TE MANA RARAUNGA

Māori Data Sovereignty Network

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

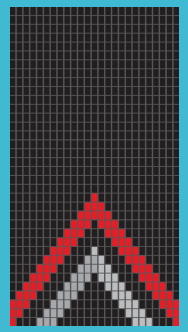
- Data rights and interests
- Data governance
- Data storage and security
- Data access and control

http://www.temanararaunga.maori.nz/

Māori Data Sovereignty

Conceptual foundations

What are Māori Data?



Data from Māori (self-generated)

- From Māori organisations and businesses

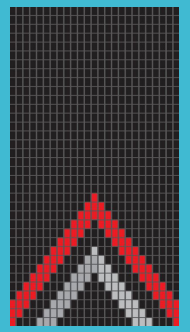
Data about Māori (generated by others)

- Used to describe or compare Māori collectives

Data about Māori resources (generated by self and/or others)

- Emerges from research on Māori resources

Māori Data Sovereignty



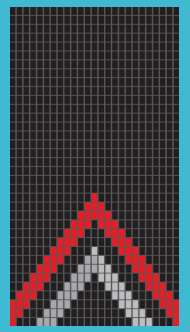
is a key mechanism for enabling **self-determination and innovation**

is concerned with

- **protecting** Iwi/Māori rights of access to data
- **participation** in data integration activities
- **partnership** in the governance and/or ownership of data

- supports the realisation of **Māori and Iwi aspirations**
- recognises that **Māori data should be subject to Māori governance**

Māori Data Sovereignty



Is the right of Māori to access, to use, to have governance and control over Māori Data

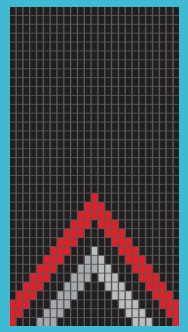
1. Data for Governance

Access and Use to transform the lives of Māori

2. Governance of Data

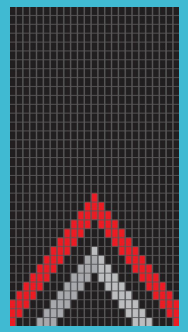
Governance and Control to ensure the data is relevant and responsive

Data from a Māori worldview: Whakapapa



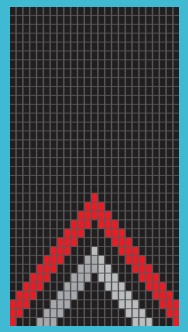
- Where it comes from and where it is going to (past, present, future)
- Relates to the purpose and use of data
- Relates to the importance of contextual knowledge
- Relationships within the data (linking individuals to groups)
- Whakapapa of the data (metadata, provenance)
- Still exists even if data set is anonymised or de-identified
- Whanaungatanga
  - Data relates to both the individual and the collective
  - Collective identifiy is integral to Māori data

Data from a Māori worldview: Taonga

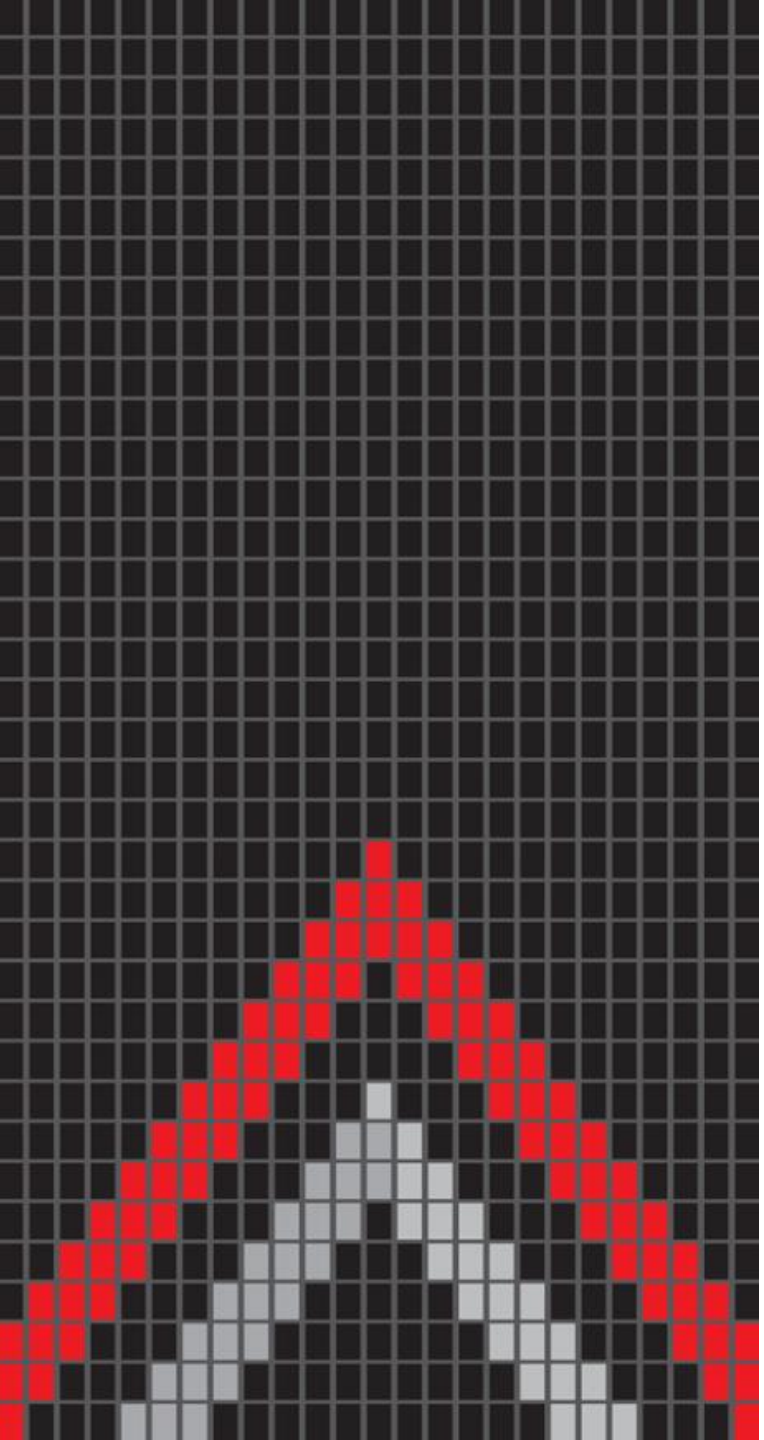


- All data are taonga
  - Intrinsic mana – inherent value of data (all data are taonga)
  - Extrinsic mana – valued for specific purposes (taonga is as taonga is used)
- Ensure the mana and mauri of the taonga are intact
  - Clear expectations around how the data should be treated
  - Separation of data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

Data from a Māori worldview: Rights & Interests



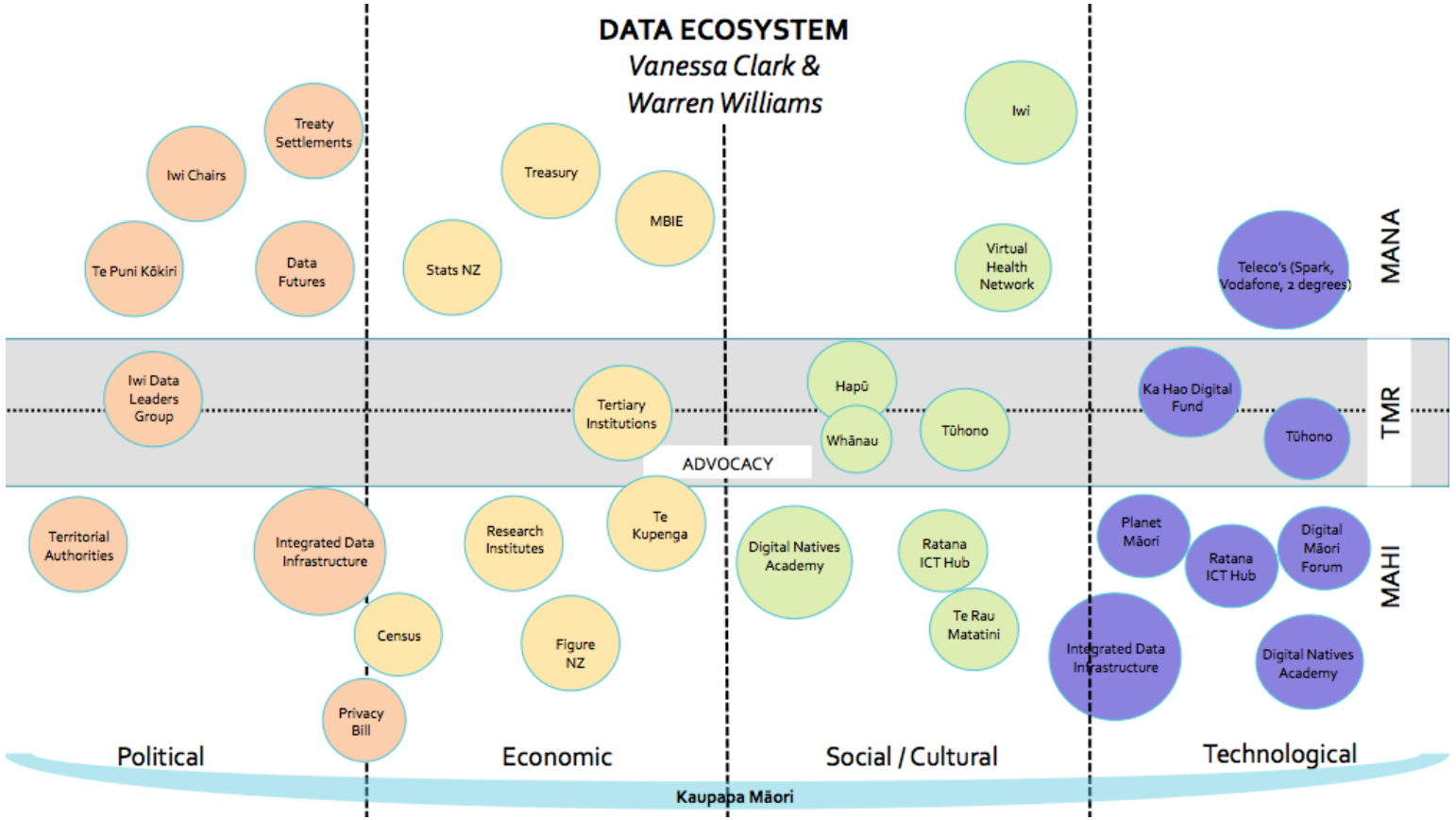
- Te Tiriti o Waitangi is a key context
- Rangatiratanga – Rights in relation to data
  - How rights can be defined, ownership vs use
  - Iwi rights to access data when iwi affiliation is known
  - Data sharing for wellbeing of collective vs individual consent
  - Defining group vs individual rights in the context of data
- Mana Motuhake – control Māori can have over Māori data
  - What should we collect independent of Govt
  - Who decides who gets to use data
- Kawanatanga – governance of data
  - What Māori data should Govt agencies be able to use
  - Māori governance oversight body for Govt data
- Kaitiakitanga
  - How to keep government use of data in check
  - Govt responsibility to Māori data in terms of collection, use and storage
  - Can we work with data in private companies

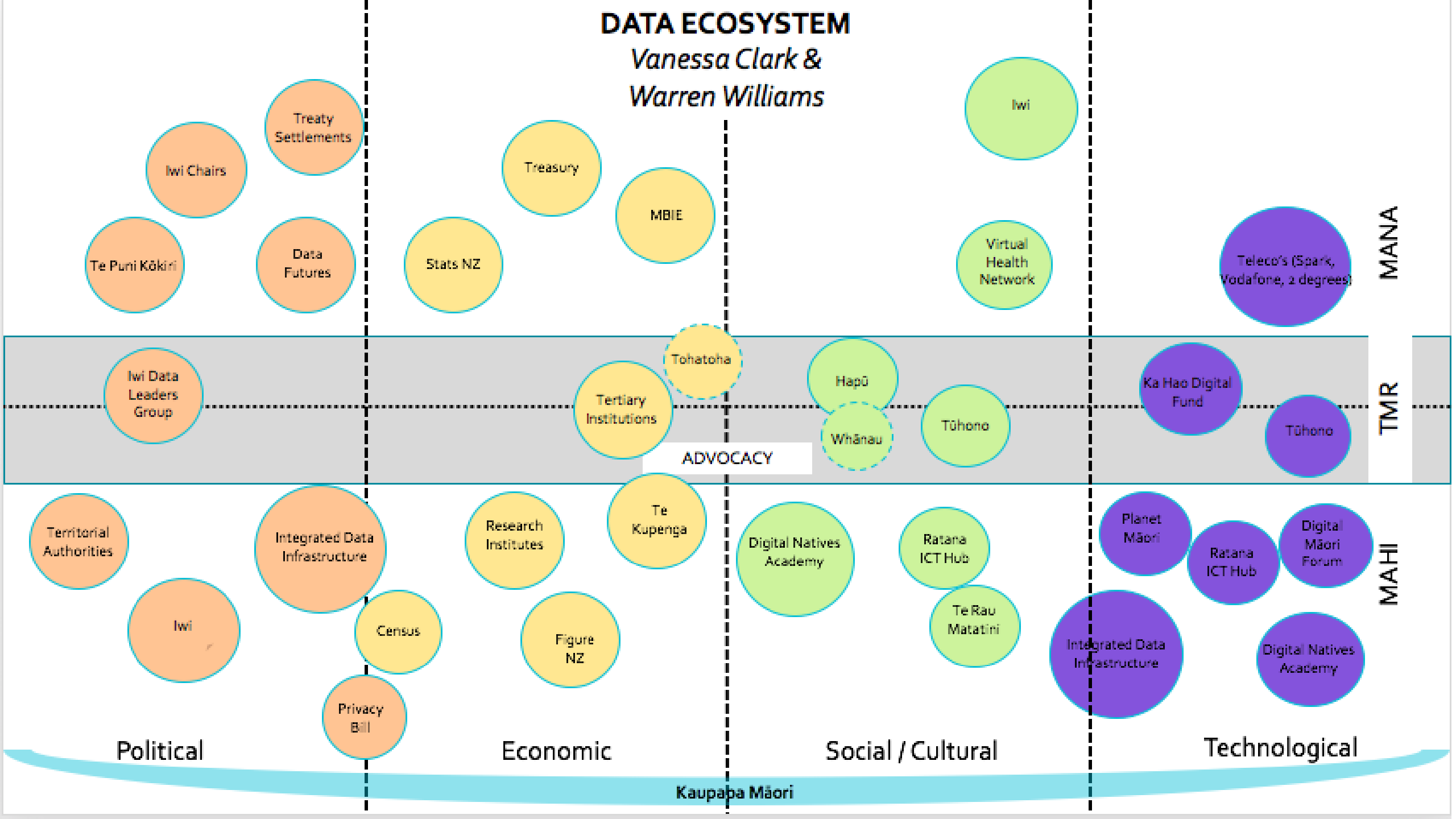


Partnership Opportunities Across Data Ecosystem

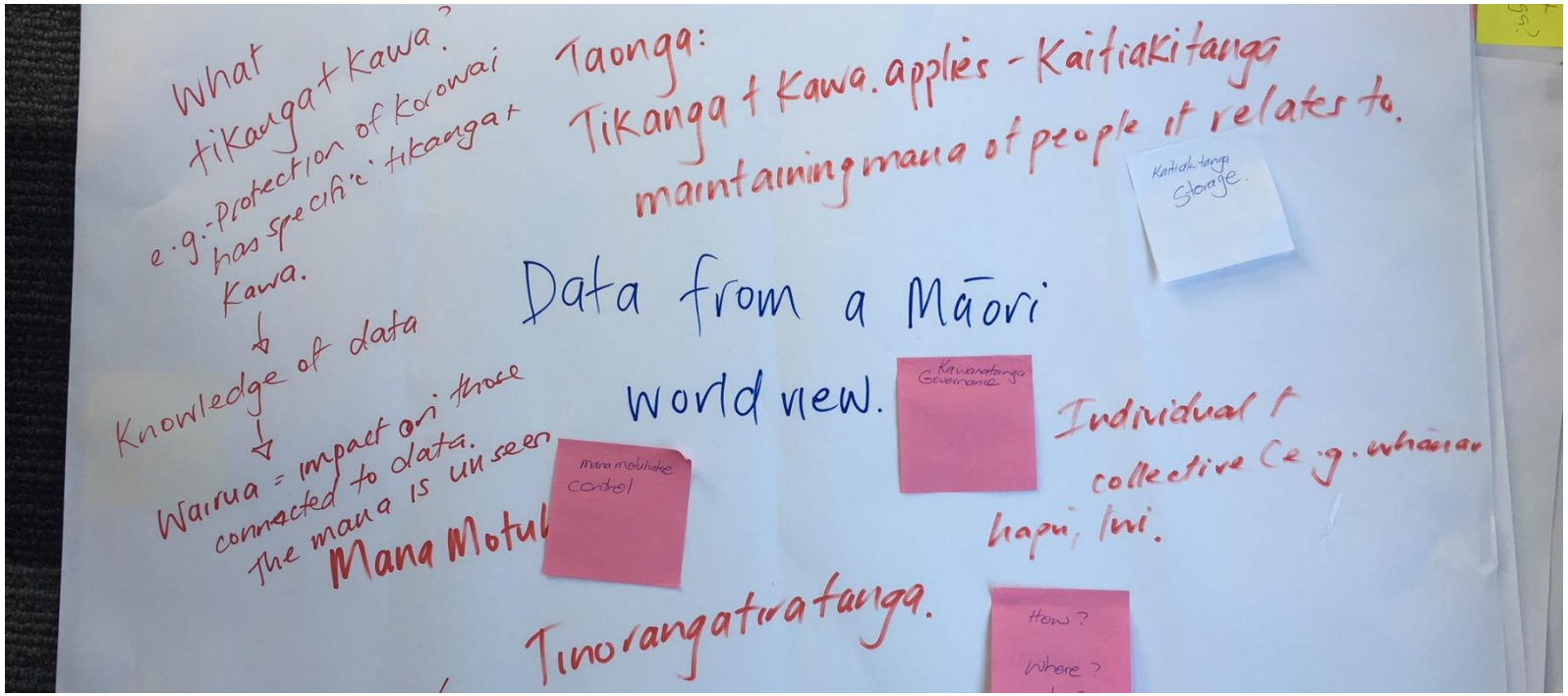
Innovation & Best Practice

i. Data Ecosystem

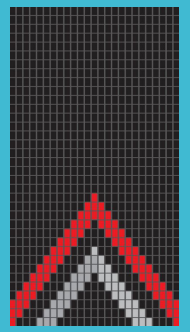



DATA ECOSYSTEM
Vanessa Clark &
Warren Williams
Treaty Settlements
Iwi Chairs
Te Puni Kōkiri
Data Futures
Treasury
MBIE
Stats NZ
Iwi
Virtual Health Network
Teleco's (Spark, Vodafone, 2 degrees)
MANA
Iwi Data Leaders Group
Tohatoha
Tertiary Institutions
Hapū
Whānau
Tūhono
Ka Hao Digital Fund
Tūhono
TMR
ADVOCACY
Territorial Authorities
Iwi
Integrated Data Infrastructure
Census
Privacy Bill
Research Institutes
Figure NZ
Te Kupenga
Digital Natives Academy
Ratana ICT Hub
Te Rau Matatini
Planet Māori
Ratana ICT Hub
Digital Māori Forum
Integrated Data Infrastructure
Digital Natives Academy
MAHI
Political
Economic
Social / Cultural
Technological
Kaupapa Māori

ii. Inventory



Multiple Frameworks

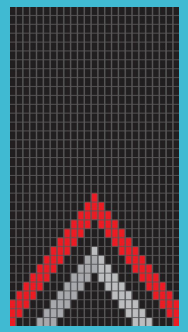


- TMR Mana-Mahi Framework
- Māori Data Audit Tool
- Taonga Assessment
- Te Mana o te Raraunga Model
- ITI (Information | Translate | Infrastructure Framework)
- 5Safes Framework
- Social Investment Agency Data Exchange
- *Others?*

How do we effectively operationalise Māori Data Sovereignty in Aotearoa New Zealand?

He korowai Māori, he whāriki rānei?

Platforms

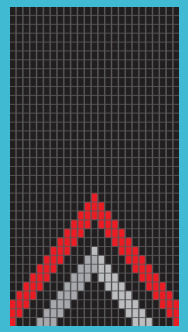


- Strategic Science Investment Fund - Data Science: Vision Mātauranga Platform (SSIF)
- Science for Technology Innovation National Science Challenge (SfTI)
  - Ātea
  - Parinihinihi Ki Waitotara
  - Iwi Data Project
- GIS (ESRI ArcGIS)
- *Others?*

What are the opportunities to collaborate?

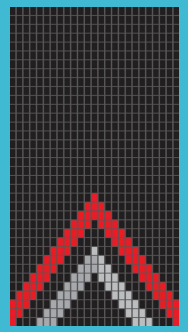
iii. Emerging Best Practices

Tirohanga Māori



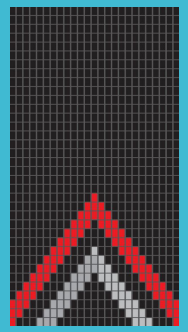
- Tikanga and kawa at forefront
  - Tika - Pono
  - Tapu – Noa
  - Te ao Māori value system
- Contemporary metaphorical interpretation of key concepts
  - Whakapapa (shared v individual)
  - Marae
  - Wharenui
- Inside the whare, in-region, in-country, global gradient for relative states of importance
- Tapu - noa (private - public continuum)

International ID-Sov



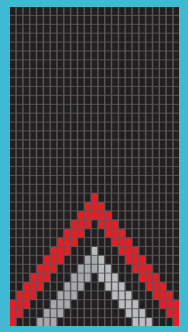
- Chiefs of Ontario, SAS Corporation Collaboration
- Interplanetary File System (IPFS) Distributed Permanent Web
- *Others*

Technology Levers



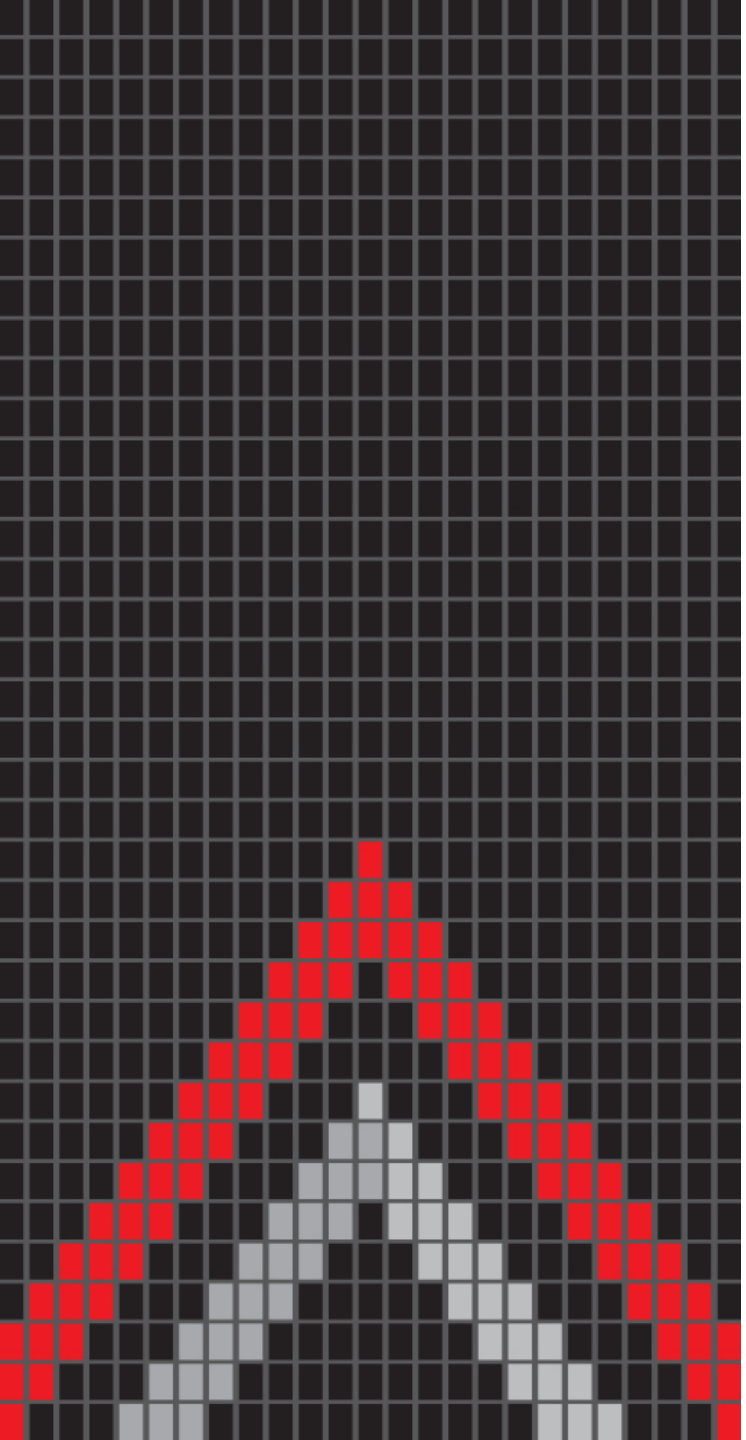
- ĀTEA Digital Marae Project
  - Artificial Intelligence
  - Virtual and Augmented realities
  - Mixed realities
  - Blockchain
  - Machine learning
- Te Reo Māori Engine
  - Speech to text
  - Machine learning
- Data storage
  - Single repository
  - Shared repository with tenancies
  - Hub & Spoke

Our opportunity



"…to bring them (tikanga and technology) together in a meaningful way that allows the **two knowledge systems to work together**; it is not simply about bringing Māori up to speed with technology…"

Dr. Tahu Kukutai (May, 2018)



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