



Aotearoa Property Data Network

hosted by Toitū Te Whenua LINZ Second Meeting; 1-3pm, Thursday 4th August 2022

Facilitator: Ben Reilly

Customer Relationship Manager – Property Data







Te Whenua karakia

It is traditional in Māori culture to end or begin hui with a karakia. While not mandatory, the Toitū Te Whenua karakia can be used in any meeting, especially when you have guests or external visitors as participants.

Karakia: Toitū Te Whenua

Whāia te mātauranga kia mārama, kia tupu, kia tiaki ngā whenua, ngā moana, ngā arawai

Kia whai take ngā mahi katoa

Aroha atu aroha mai, tātou i a tātou

Toi te kupu

Toi te mana

Toitū te whenua

Haumi ē, hui ē, tāiki ē!

Pursue knowledge for understanding, developing and caring for the lands, bodies of water and waterways

Seek purpose in all that we do

Let us show respect for each other

Hold fast to our language

Hold fast to our spiritual strength

Sustain the land

Gather and go forward together





Agenda

Proposed discussion items		
1pm-1:10	Welcome & opening remarks	
1:10-1:35	LINZ News & Updates	
1:35-1:55	Property Spine: Stats NZ Pilot	
1:55-2:15	Pātaka Whenua: replacement for Māori Land Information System and Māori Landonline	
2:15-2:35	Geospatial Data in Response & Recovery, Edgecumbe Flood Case Study	
2:35-2:55	LINZ Data Review & Data Strategy	
2:55-3pm	Closing remarks	











Section Contents

- NZ Addresses update (Trent Gulliver)
- NZ Localities survey results and next steps (Susan Shaw)
- NZ Property Titles including Owners update (Susan Shaw)
- Notice of Change update, XML working group, API roadmap (Mike Webster)
- NZ Properties Hybrid our best representation of a property boundary (*Greg Byrom*)
- Property Data Management Framework (Mike Judd)





A more comprehensive national address dataset for New Zealand.

Comprises AIMS addresses

plus

allocated addresses previously missing from AIMS.







	NZ Street Address	NZ Addresses
Address Count	2,148,920	2,283,830
NZ Localities – NZGB Compliant Names	No	Yes
Territorial Authority	No	Yes





To become the national, authoritative dataset for physical addresses, replacing NZ Street Address.

Launch date to be confirmed.

NZ Street Address to remain available for a time.



Watch this space...





NZ Localities



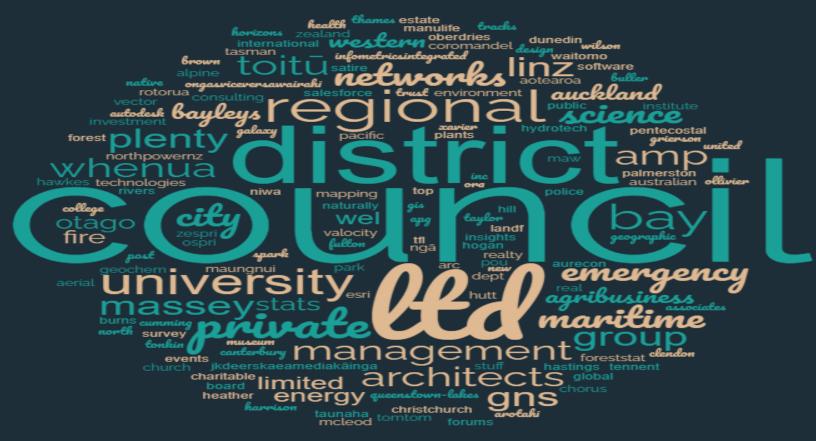




NZ Localities

Customer Survey Results







Majority of users trust NZ Localities

Top issues:

- discoverability
- ease of use
- data structure

Current data structure is not intuitive

Less is more

Support the move to LINZ



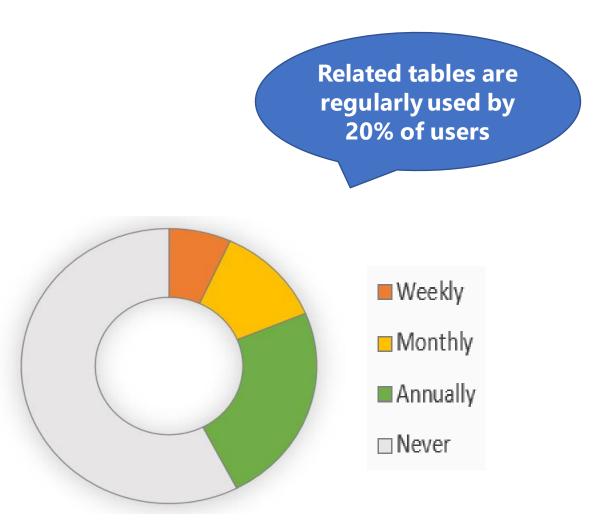
88%

68%

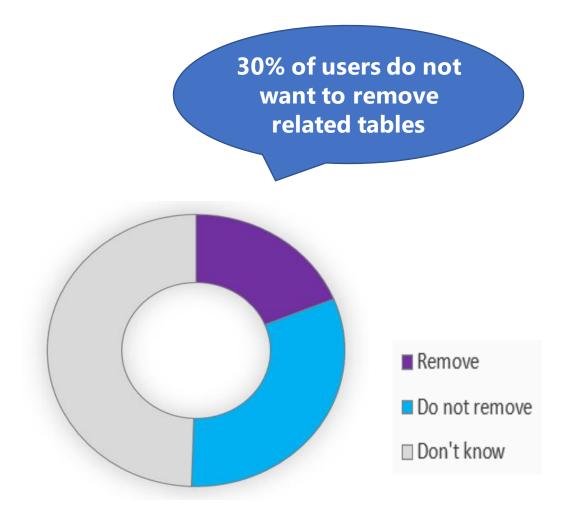
Support for single name and Territorial Authority

Support for official place names and macrons





How often do you use related tables?



Should related tables be removed?



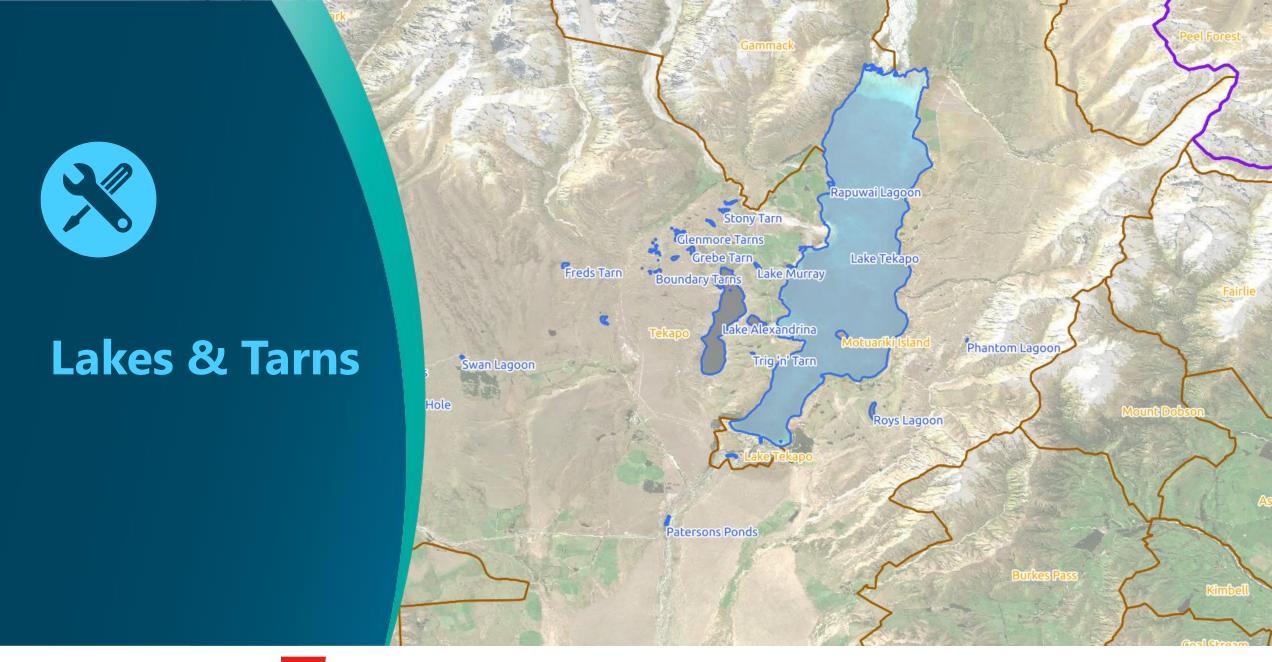
Make it easier to request a boundary change

Show official and common in use names

Align with other admin boundaries

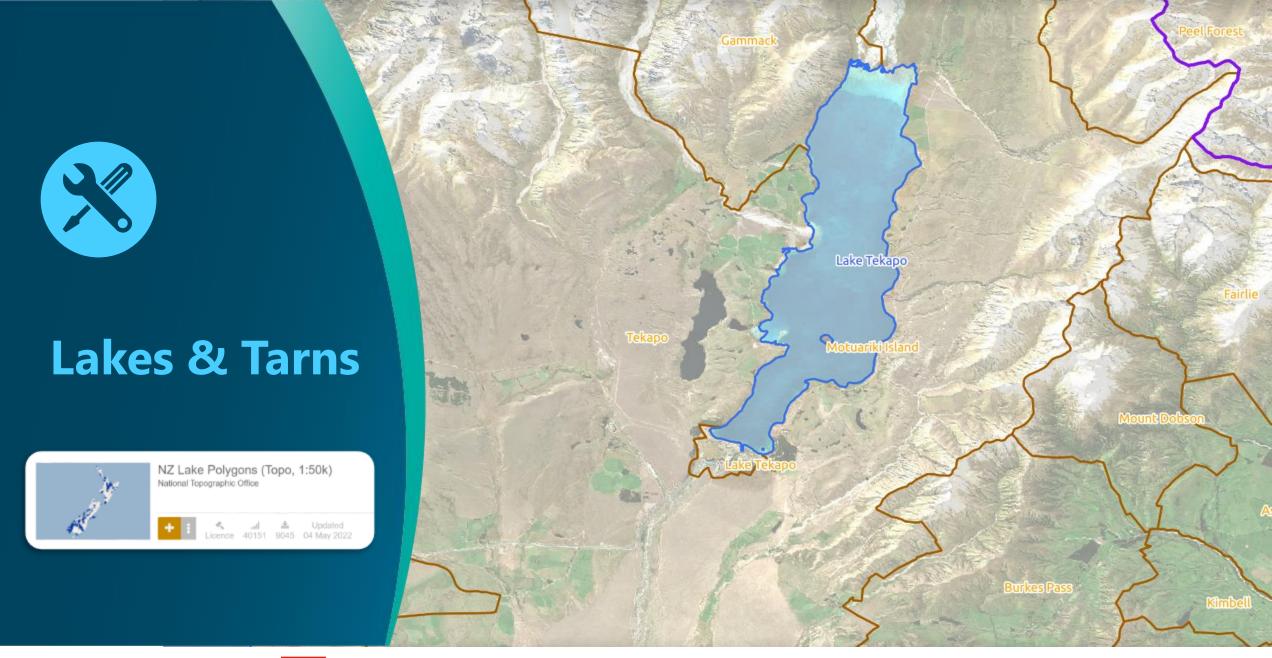
Involve Councils in change process

Remove lakes



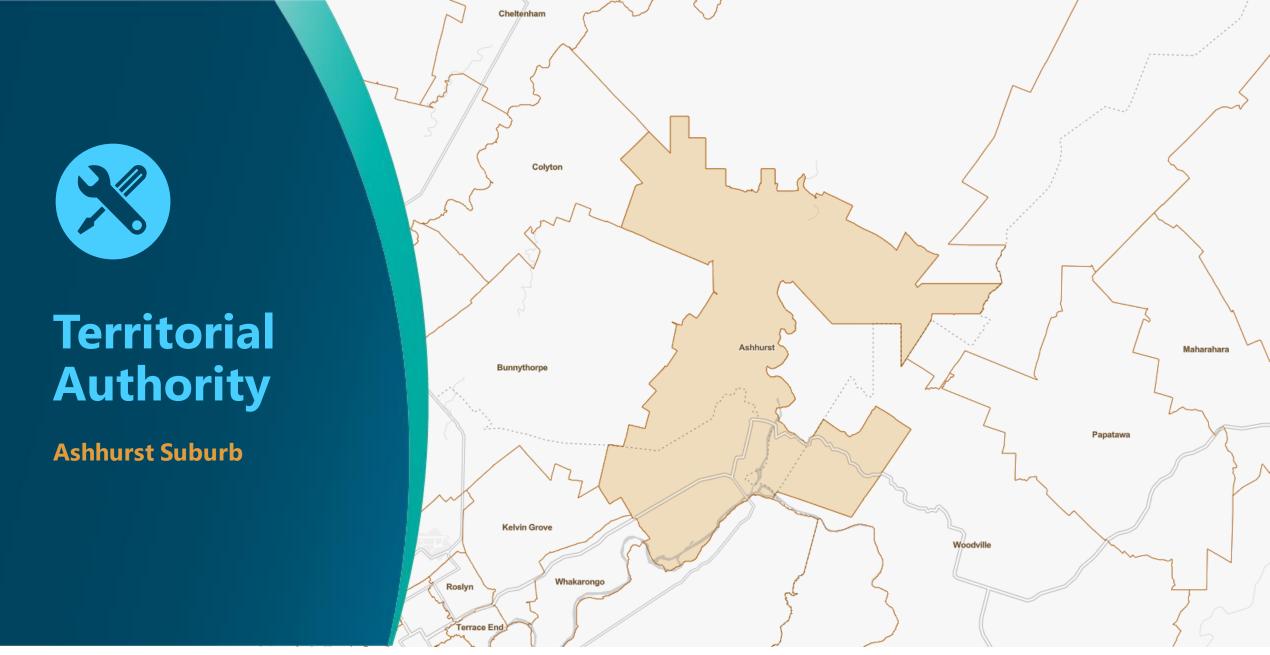






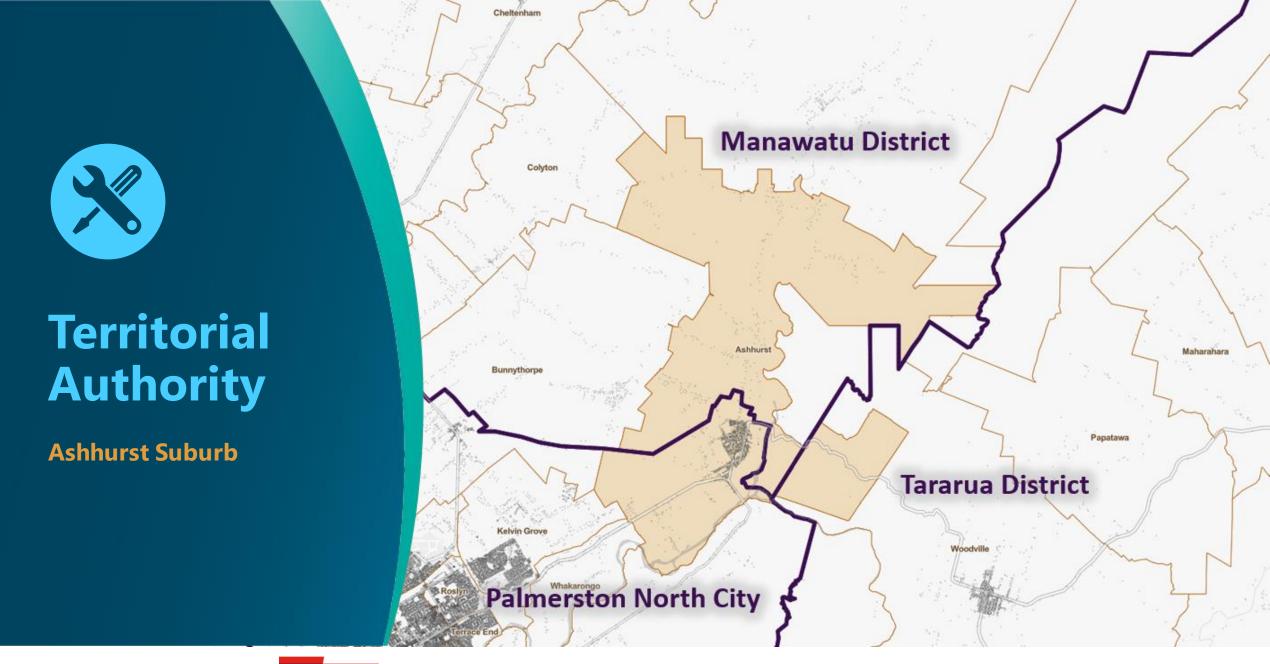
















Ashhurst Suburb

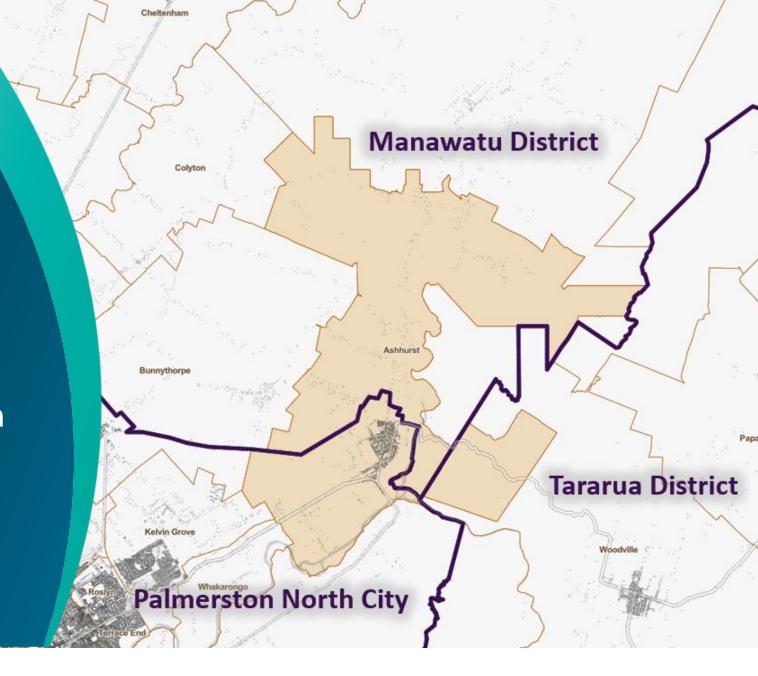
Largest Area: Manawatu District

Highest Population: Palmerston North District

List all TAs:

Manawatu District, Palmerston North District, Tararua District

Create a related table for TAs







NZ Property Titles Including Owners



- ✓ Layer is in ArcGIS Online
- ✓ Agreed restricted access process
- Registrar General of Land to approve
- User testing







Summary

NZ Suburbs and Localities (Pilot) in progress

NZ Localities will remain in place for a time

Please share your feedback during pilot

Property Tiles including Owners as ArcGIS REST service coming soon



Notice of Change

By the numbers



- 70,000+ NOC created so far
- **79%** of NZ by population able to benefit from the service as at 30/7
- 10 minutes average time saving per transaction for conveyancers using NOC
- **4,540** Solicitors using the service





Notice of Change

XML Working Group progress



Several TAs are meeting to discuss use of XML and in the future APIs for data sharing:

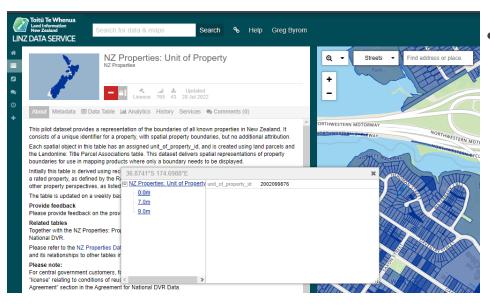
- Auckland
- Central Otago DC
- Christchurch CC
- Tauranga CC
- Wellington CC

API development is still some way off given there are still some Councils yet to come onboard with the service





Property IDs – NZ Properties



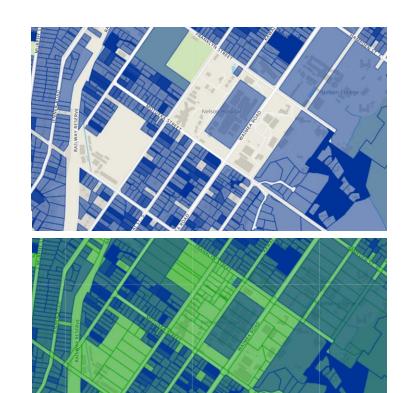
- NZ Properties Pilot on the LINZ Data Service, introduces a property ID called "Unit of Property ID".
- Applied to properties in the layer "NZ Properties Unit of Property".
 - Current properties are a representation of rating units, derived from the District Valuation Roll data from councils.
 - In future this will be expanded to include other perspectives of property.
 - The ID is separate from the Valuation Reference to allow for this.
 - We have applied this ID also to the National District Valuation Roll table in NZ Properties Pilot





NZ Properties Hybrid

- Unit of Property layer contains gaps:
 - Currently only deals with titled land in the District Valuation Roll. State land, Māori land, etc. are future work.
- We are developing a temporary, hybrid, interim dataset:
 - NZ Properties Unit of Property layer highest level definition of property.
 - NZ Property Titles for titled land not referenced in the Unit of Property layer.
 - NZ Primary Parcels for all other land.
- Percentage of titles and parcels will reduce over time as we work to fill the gaps in the Unit of Property layer.
- Same access and use conditions as NZ Properties: Unit of Property.
- Yet to develop a timeframe will keep you posted.







Property Data Management Framework

- Release 1.2 in preparation, likely September 2022.
- Includes some user feedback, and some material from the recent LINZ/StatsNZ Property Spine project

New section for composite properties

New content for dwellings

Some rules for connecting buildings

Unit of Property: some rules and constraints, and some new content on property ID's

Change to Record of Occupation Brief comment on spatial polygon integration

- All ideas/comments/help welcome... "community standard"
- Webpage: https://www.linz.govt.nz/property-data-management-framework
- Contact: Mike Judd, mjudd@linz.govt.nz

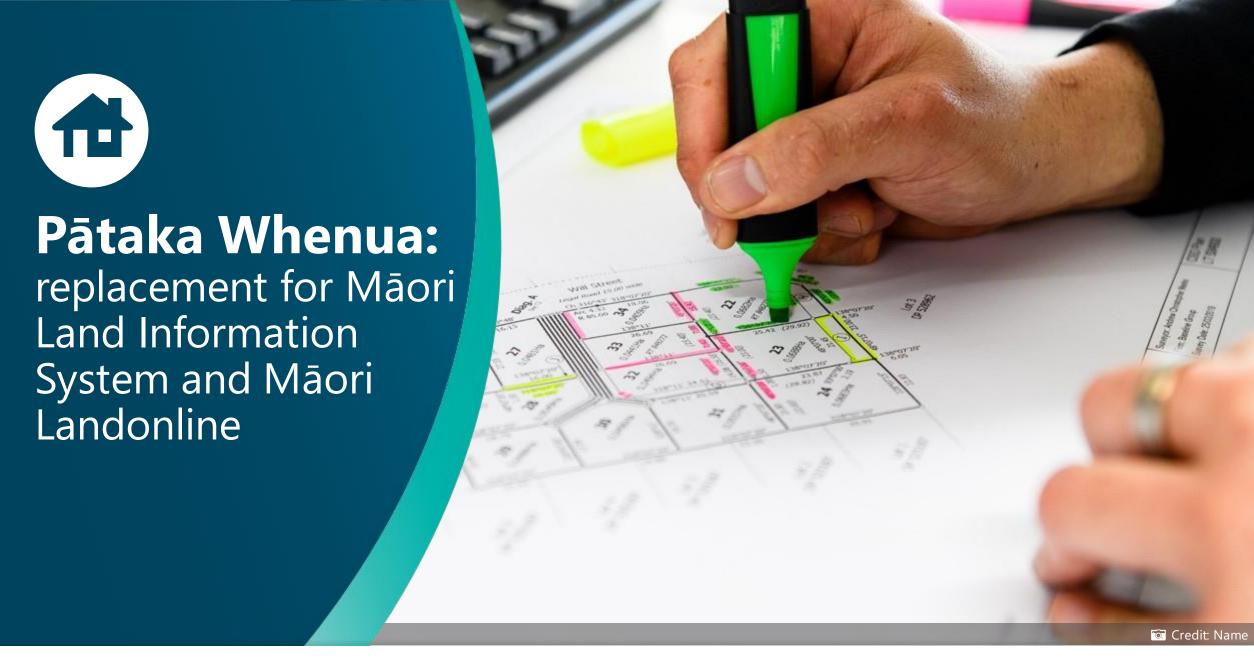
















Te Kooti Whenua Māori Māori Land Court

Toitū Te Whenua Land Information New Zealand
Property Data Network

4 August 2022





Māori Land Information System (MLIS)

- Current system (since 1999)
- Majority of court paper records were entered into the MLIS in 1999-2000
- Holds all land data
 - Block title information
 - Ownerships
 - Trusts/Māori Incorporations
 - Case management





Māori Land Online (MLOL)

- Launched in 2004
- Displays land title data from MLIS
- Uses data from LINZ to display parcel information
- Uses Google Maps to display the GIS information
- While it displays land title data, i.e. owners and ownerships, memorial schedule information, references for documents (court minutes, orders etc)
- To view or receive a copy of the document you must visit an office of the Māori Land Court or request it be sent to you





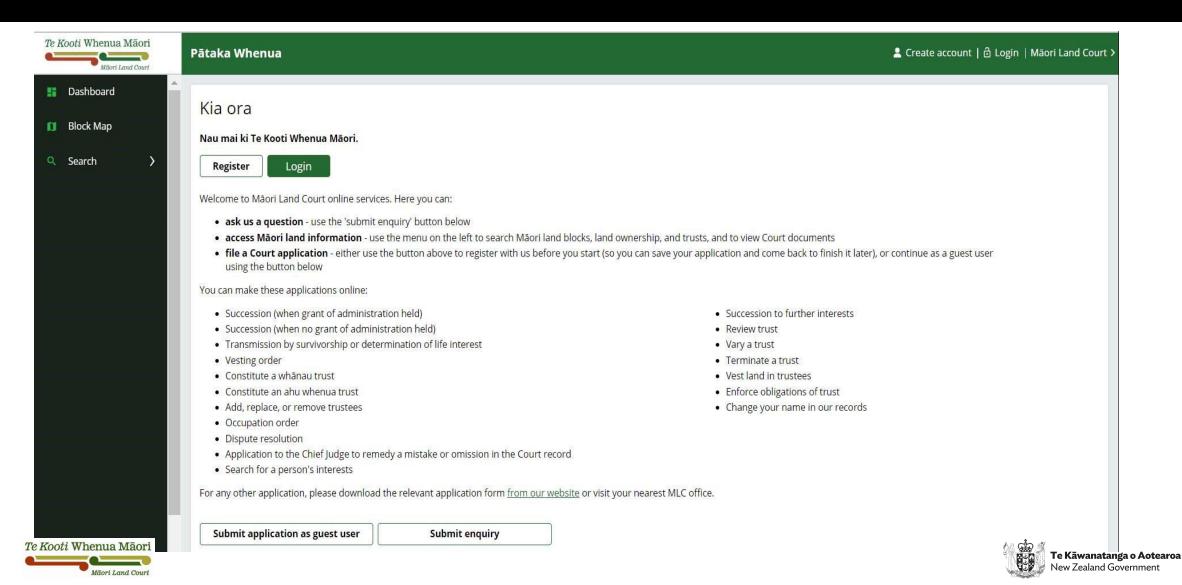
New Legislation – Amendments to Te Ture Whenua Māori Act 1993

- Effective from 6 February 2021
- Introduced a new mediation service
- Extended jurisdiction of Judges and Registrars
- Empowers the court to order a survey of a block
- Improved accessibility to the court and its services
- Recognised that the current system cannot support the changes introduced by the amendments to the Act





Pātaka Whenua



Pātaka Whenua

Pātaka Whenua concept includes:

- Web based application
- Tailored to support the new court processes and requirements
- Combines MLIS and MLOL
- Displays all Land Title Information
- Including GIS data
- Users can submit applications/enquiries via a web portal
- Registered users can track their application
- Users can view court minutes and orders







Geospatial Data in Response & Recovery

Edgecumbe Floods Case Study Glen Clarkin and Casey Box





What Happened?

Cyclones Debbie & Cook within 7 days of each other

Rangitāiki River breach

Inundation and evacuation of Edgecumbe

township

1 in 200-year flood





Geospatial data

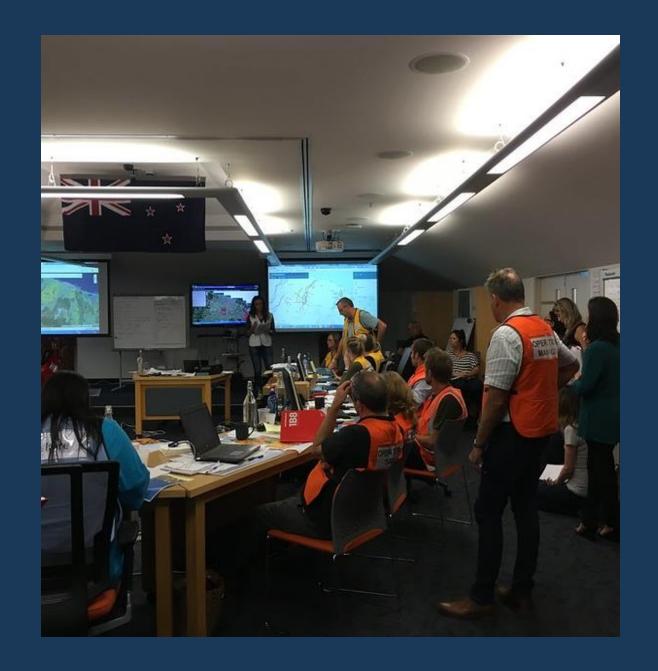
EOC activated in Whakatāne prior to stopbank breach

Order to evacuate prior

GIS – we started from scratch

Multiple data sources and systems

Early stages all about the 'COP'





Common Operating Picture

Imagery & LiDAR

Addresses/Buildings/Properties

People

Roads

Cordons/Zones/Evacuation Areas





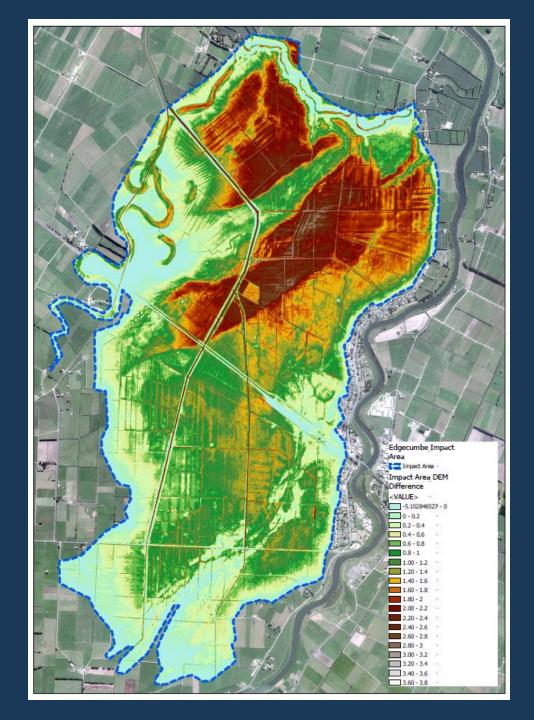
Imagery & LiDAR

Key questions:

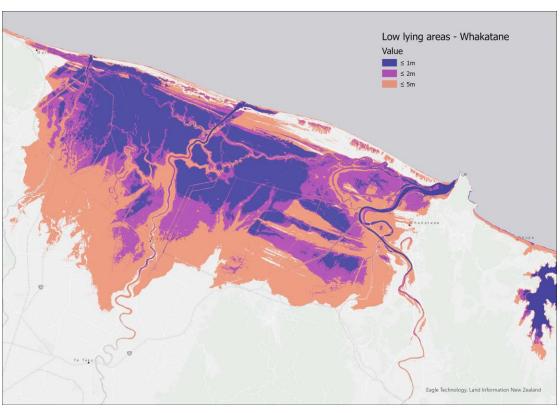
- What was the extent of the flooding?
- Where are the low-lying areas?
- How many properties are/will be impacted?

No imagery captured at height of flood Drone imagery from fire service









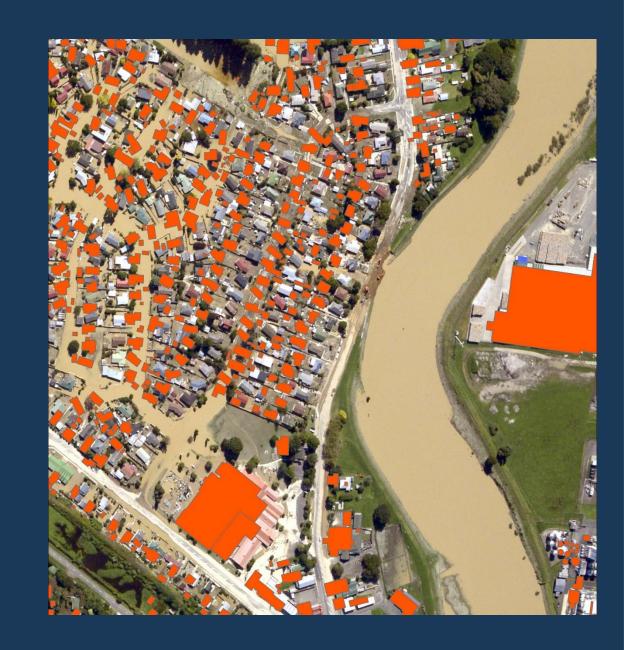


Property Data in the Response Phase

Who & What is impacted?

Location, location, location

- Addresses
- Buildings
- Properties
- People

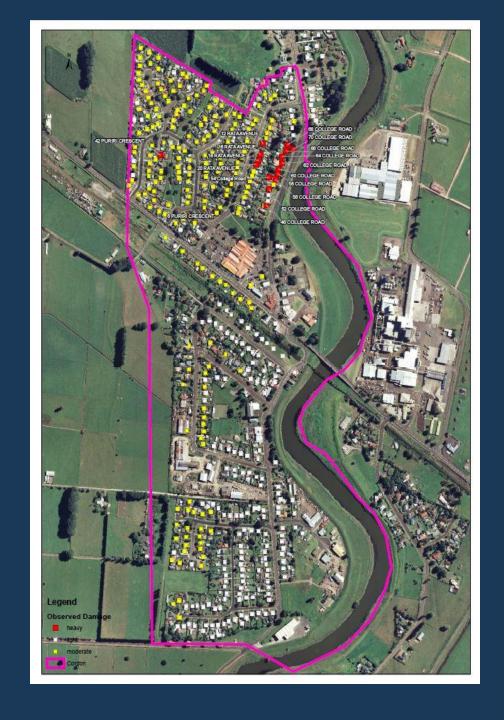


Response cont...

Data coming from different agencies:

- USAR
- SPCA
- MPI

Collaborated on a Rural Welfare Form with Rural Support Trust



Recovery Project

Recovery is (surprise!) all about <u>People</u> and <u>Places</u> (Addresses, Buildings, Properties).

External pressures focus the importance of data accuracy.

• Near-enough not good enough

Sharing data with external organisations.

BAU Council processes affected by the legacy of the event.











Methodology

50+ internal interviews

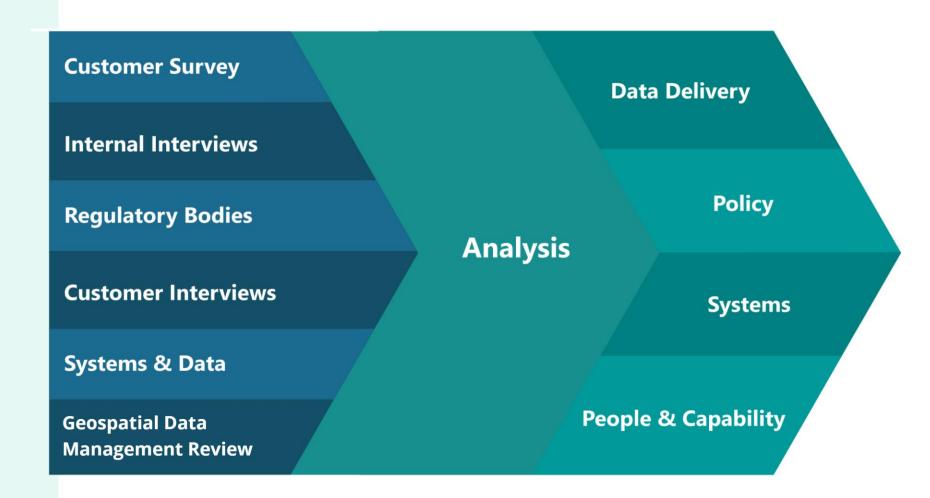
22 business domains

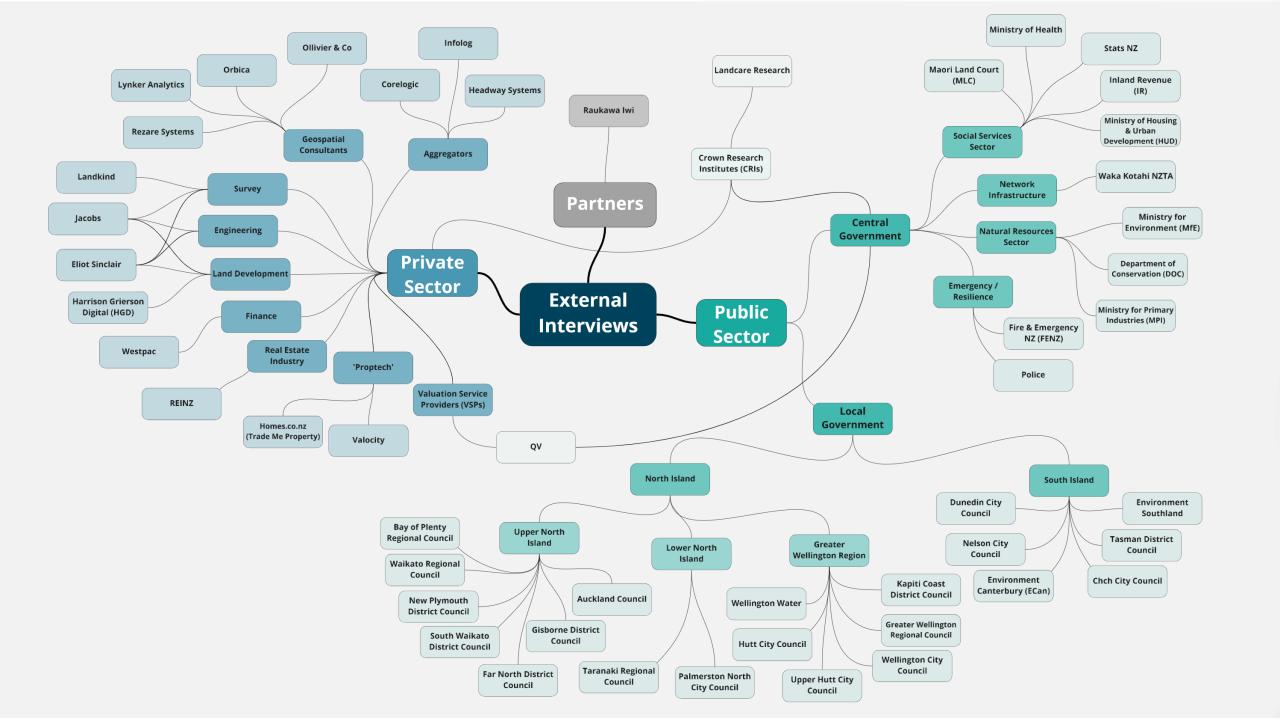
1800+ surveys

30+ industries

35+ external interviews

10+ internal workshops







Landonline survey and title data good quality

Improve standards and integration with councils

Addressing confusing data landscape - no reliable authoritative source of truth

LINZ provide single source of truth for NZ property data

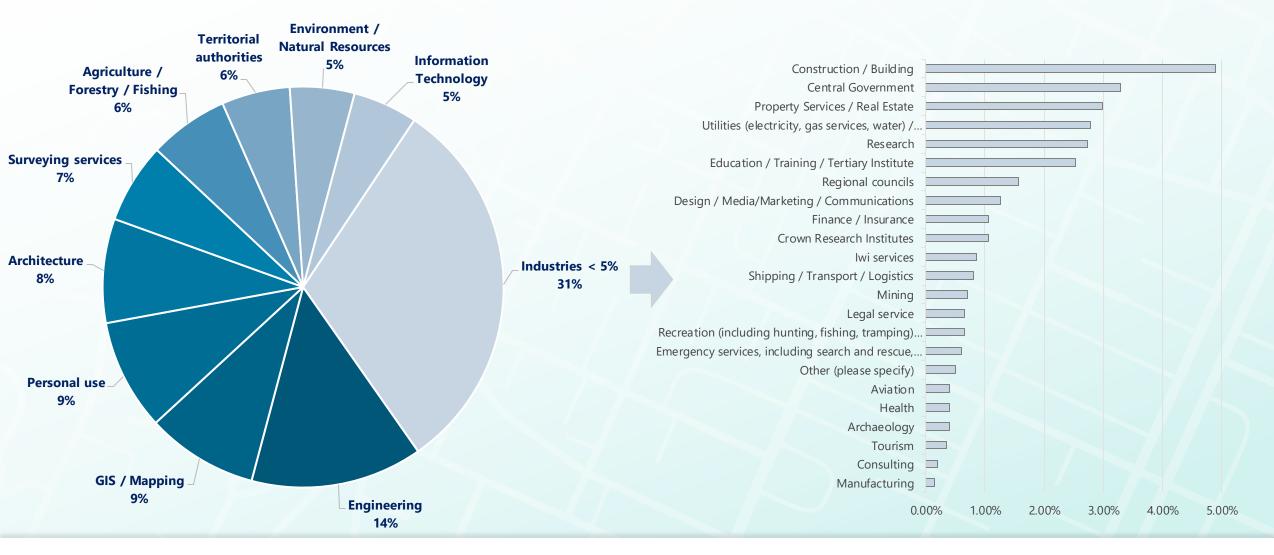
No publicly available national DVR and Sales dataset

Can't get an authoritative view of Crown or Māori land





Survey - Industry stats





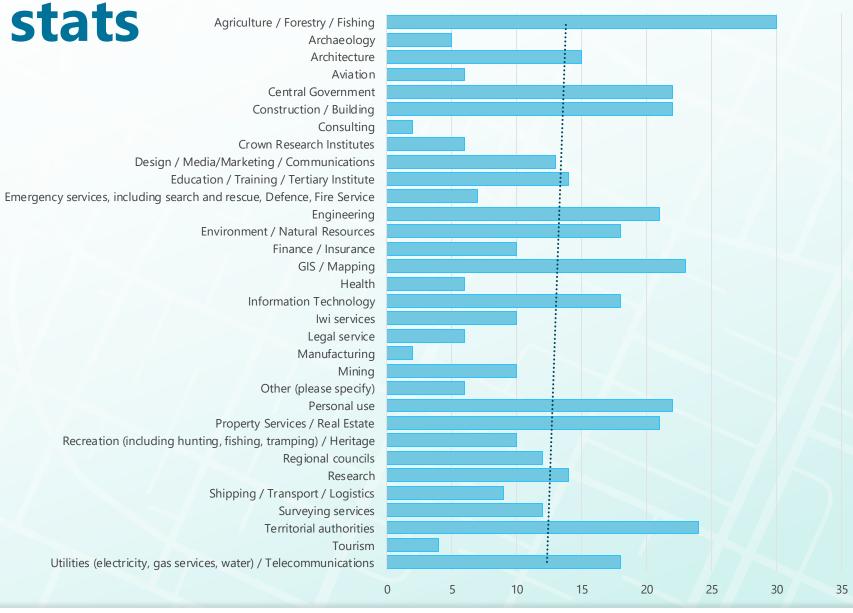


Survey - Roles stats

Count of Roles per Industry Type

Broad numbers of roles represented across each industry type (~12-14 on average).

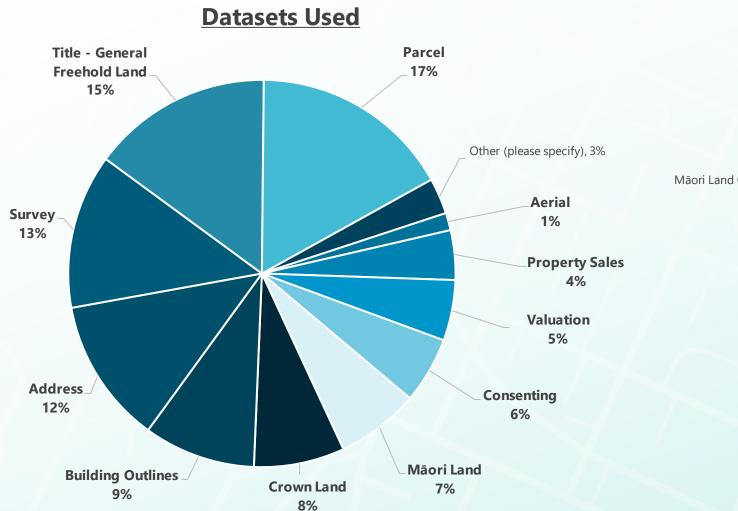
Increases confidence of having a representative sample.



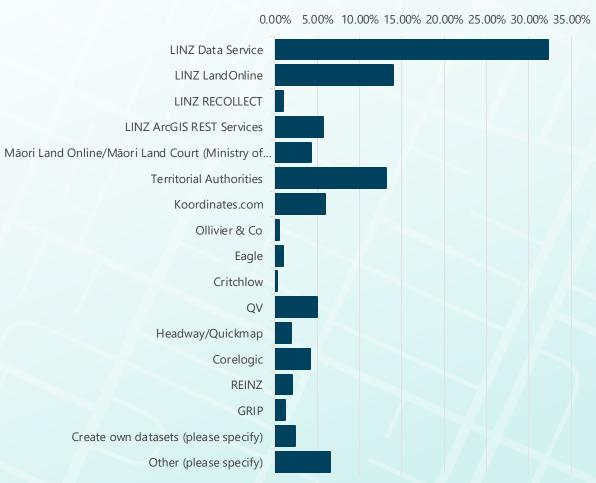




Survey - Property data stats

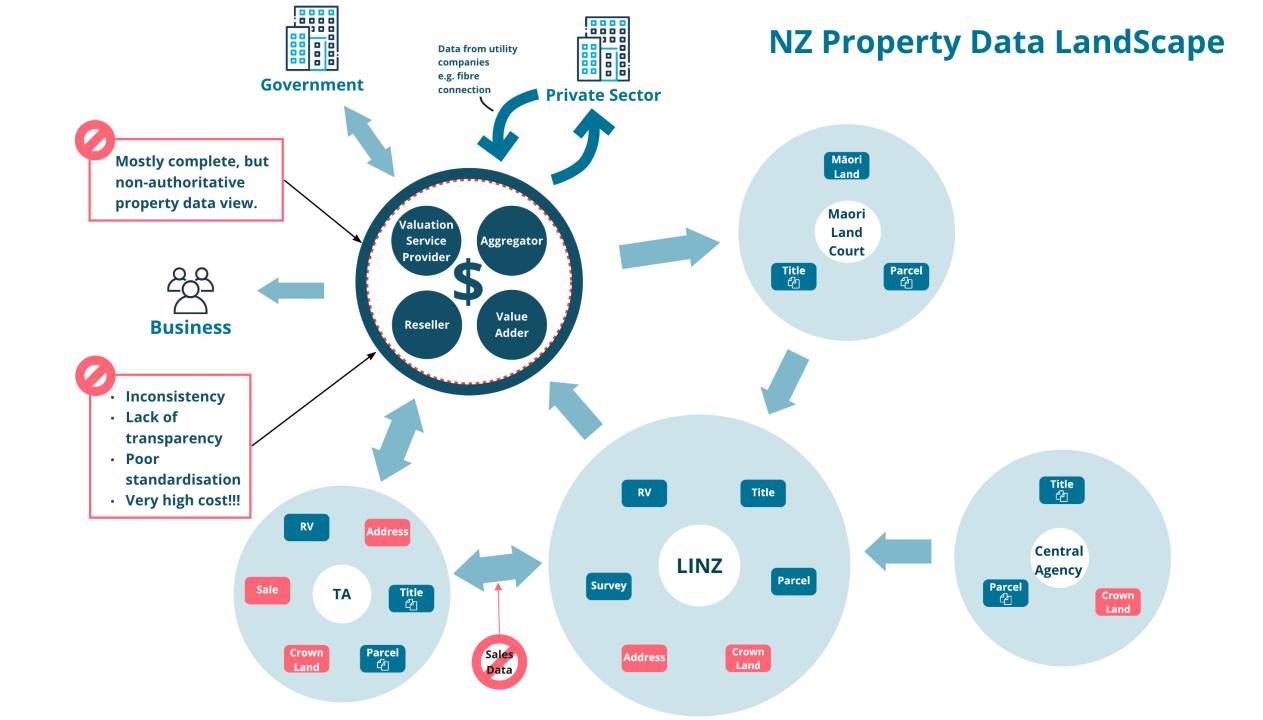


Data Sources

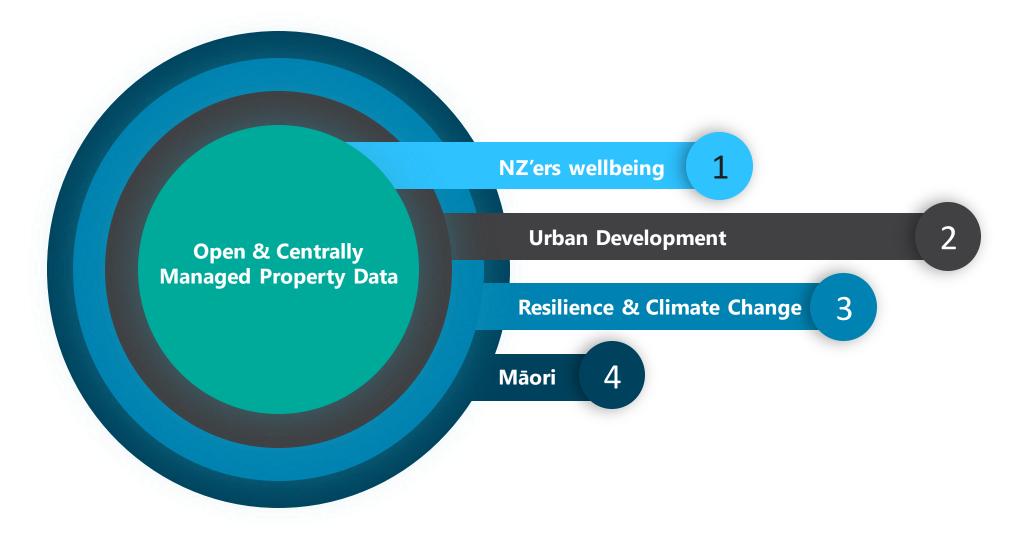








Drivers for Change







Next Steps

- Complete analysis
 - Strategy and roadmap
 - Including short to long term actions
- Deep dive session with stakeholders/customers





Thank you!



