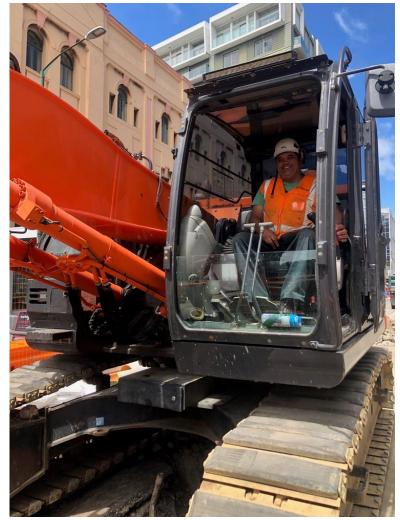
Wellington Underground Asset Register beta pilot

The opportunity to improve asset data

Absolutely Positively Wellington City Council

Me Heke Ki Pōneke













Context

Public value

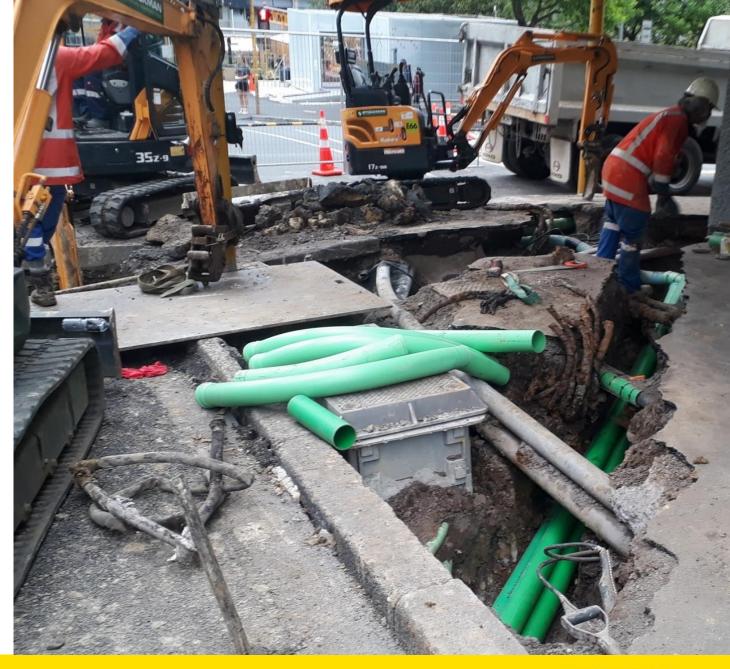
What are we doing?

We are tackling the lack of trustworthy information about assets and taonga underground.

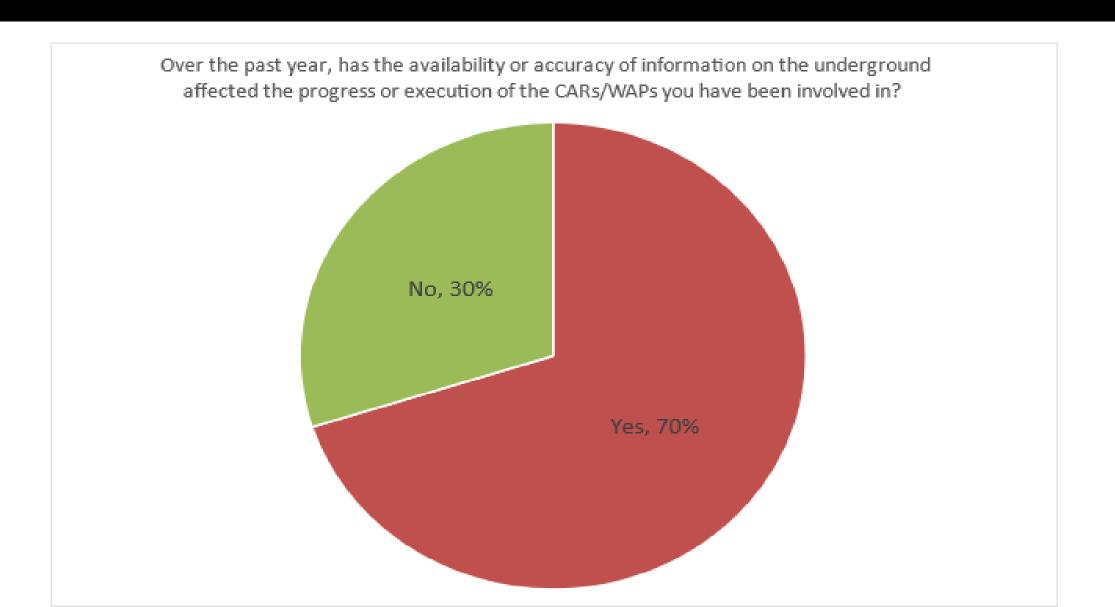
Why are we doing it?

This will enable the efficient and safe delivery of infrastructure promoting economic growth, enhanced social wellbeing, protection of taonga Māori and improved response and recovery from natural disasters.

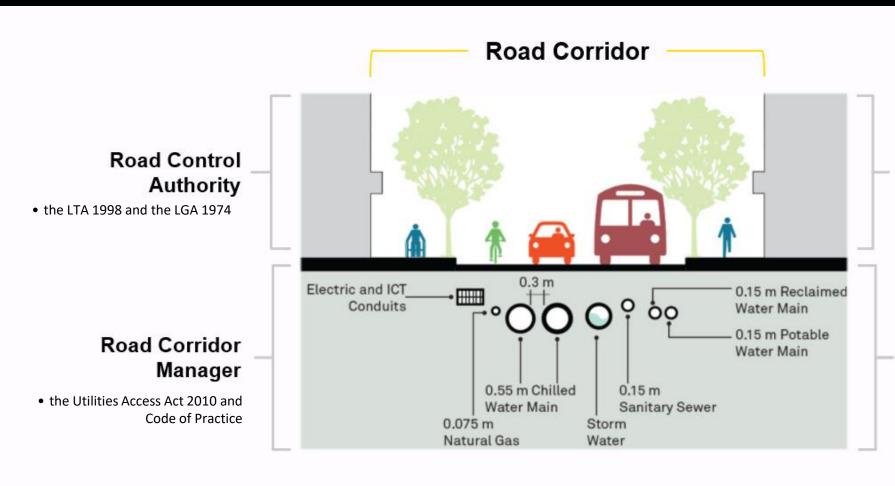
This is a long-term initiative.



Sector Survey – initial findings



The good news... we have the mandate to lead change



Building owners and developers

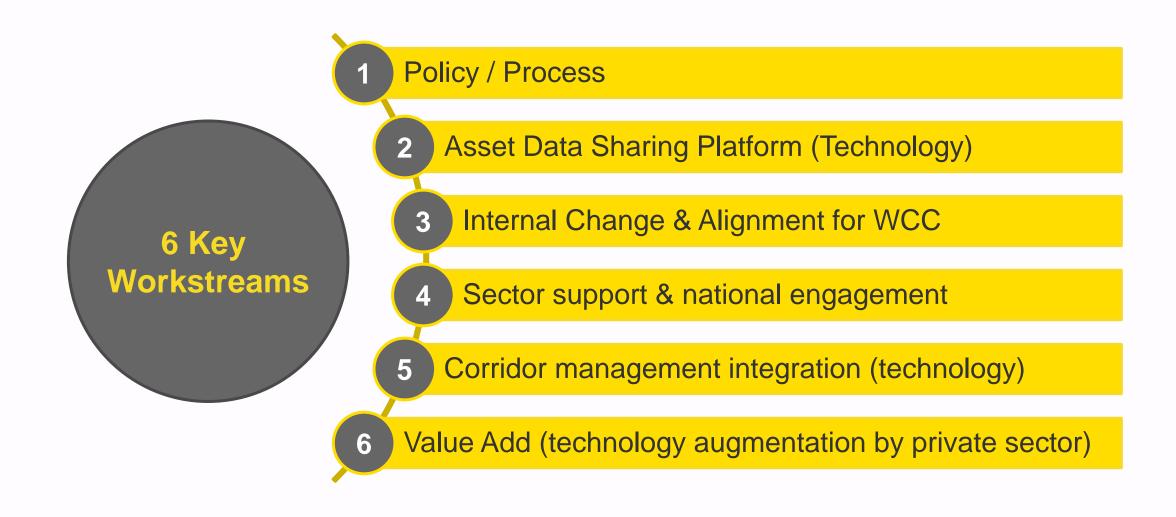
Vertical Infrastructure

 Mostly private owners controlled primarily through RMA and BA

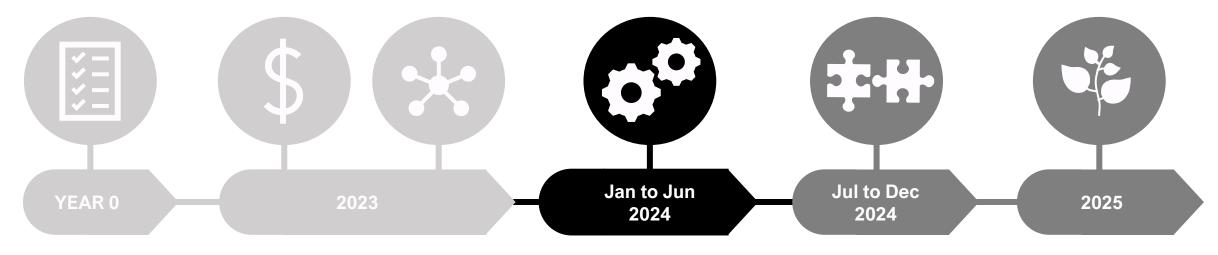
Utility Operators

- Electricity under Electricity Act 1992
- Gas operator under Gas Act 1992
- Telecom operator under the Telecommunications Act 2001
- Water and wastewater under a Territorial Authority under the LGA 2002, or person acting on behalf
- Letterboxes, a postal operator under the Postal Services Act 1998

Programme approach



Programme roadmap



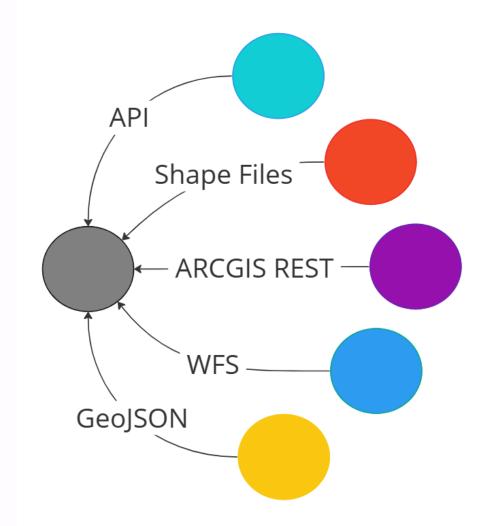
- IndustryConsultation
- Business Case Development
- Minimum data requirements

- Funding Confirmed
- Technology Approach
- Procurement
- Industry Engagement
- Business, Policy and Process Development

- Design, test and build the new
 Operating Model
- Beta version of technology target go live – 9th July
- improvement of the Operating Model (technology, process and policy)
- Grow system
 - Technology enhancement
- Augmentation

Data Loading – making it easy

- Data is Federated from Network Owners into a central location.
- This is done using Online REST services so that updates are picked up automatically.
- We can also use hosted or emailed files if there is no online option.
- We support multiple ways for providers to publish and supply asset data.



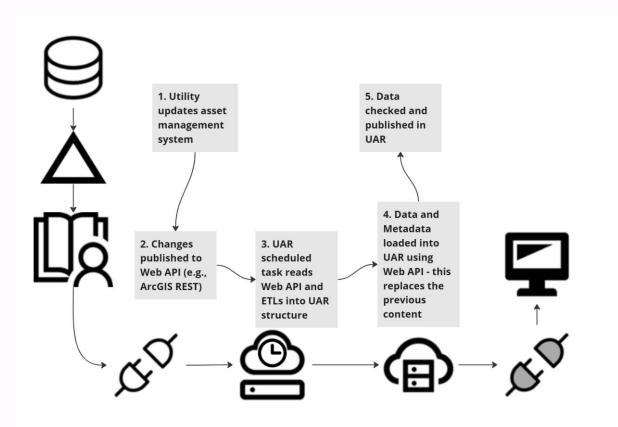
Data Transformation

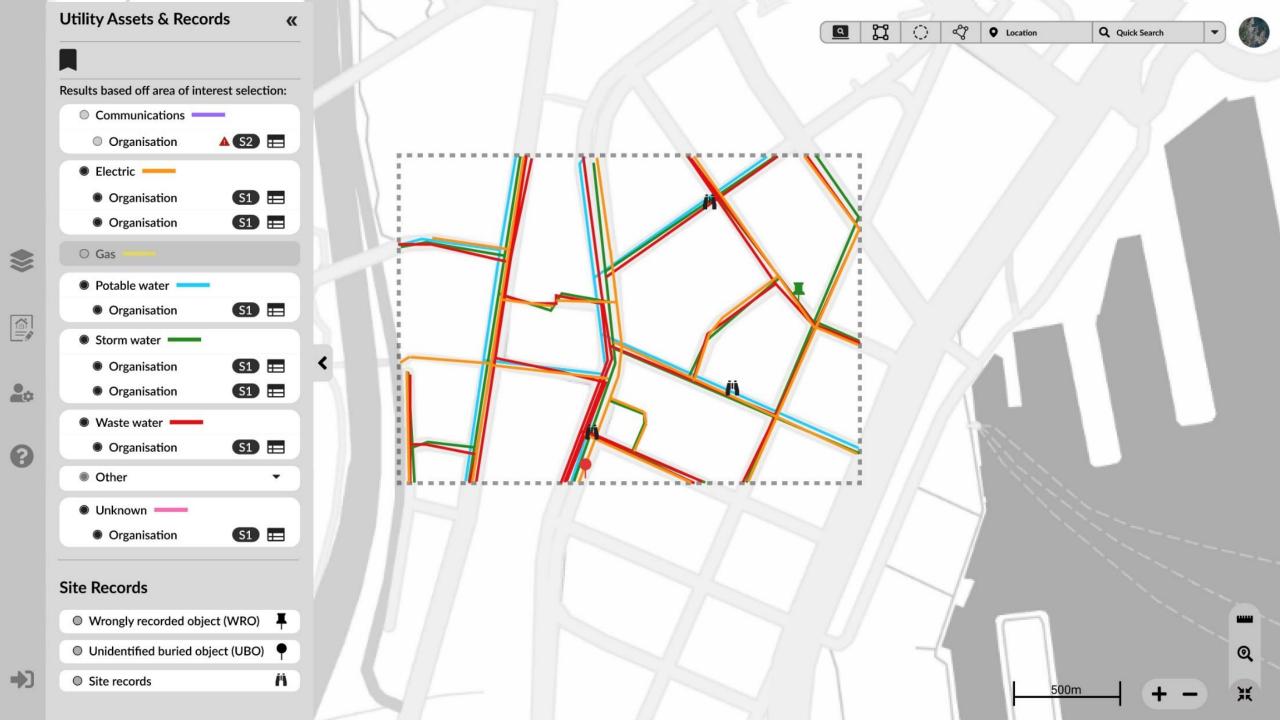
- Data is transformed into a common schema structure for ease of use and consistency across asset classes. This is based on MUDDI and other industry standards.
- There are common data fields for the data set,
 e.g., Contact details these are supplied once.
- Mandatory Fields are essential these must be supplied, however field values can be "Unknown" if not available.
- Optional Fields provide extra detail, if available. This can include values specific to a particular utility (e.g., rating, conveyance method etc.,)
- Our initial focus is Network Segments, i.e., utility lines.

	Owner	Wellington Electric
Dataset <	Operator	Wellington Electric
	Contact	0800 248 288
	Emergency Contact	0800 248 148
	Туре	Electric
Mandatory {	Asset ID	WE-1234-xfc-fvb
	Criticality	Critical
	Operational Status	In Service
Optional {	Material	PVC-Neutral Screen-Copper
	Diameter	120mm
	Depth	1.15m
	Utility Specific - e.g., Capacity	400 kV

Loading the Underground Asset Register

- This is an automated process using Web APIs or via sharing static files.
- Ideally no manual intervention is required.
- Metadata describes
 - The data contents and terms of use
 - Links to guidance and safe working practices for assets
- Data update frequency can be as often as the utility data owner wishes to publish data.

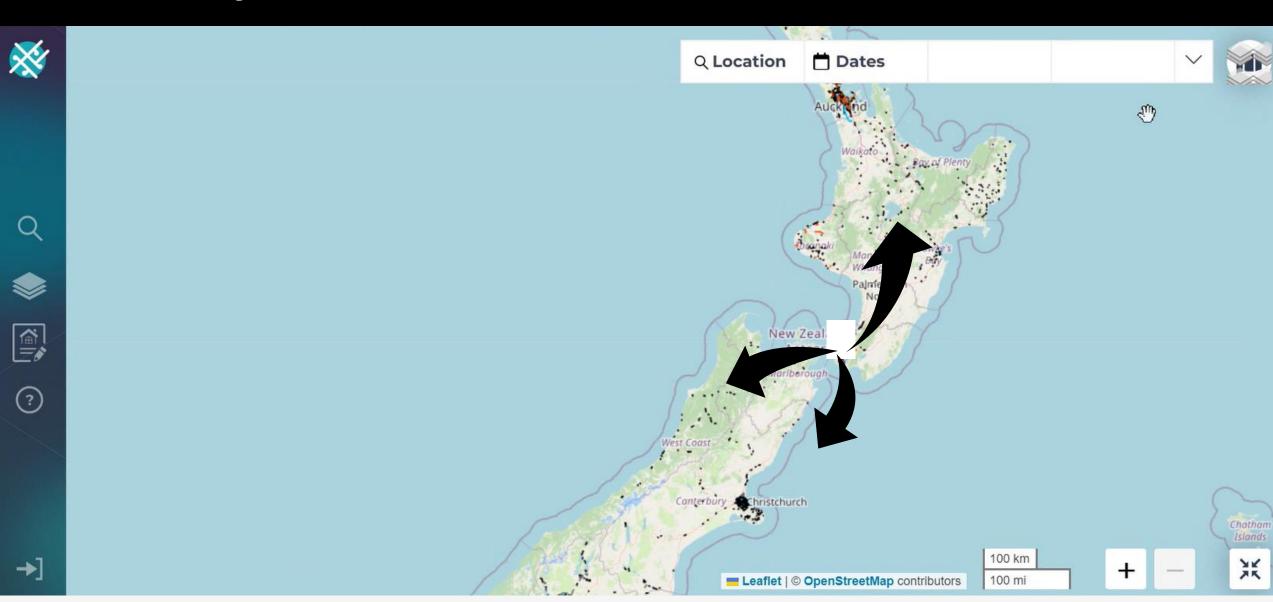




The value add of site observations



Scalability



Our Vision something we collectively develop

To provide a single, authoritative, and trusted view of relevant asset and contextual data so that work in the subsurface environment can be undertaken safely and efficiently

We are going to start simple, add features and functionality

It's not about the platform, it's about what the platform enables us to do







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Wellington City Council Web Page

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