Wellington Underground Asset Map Programme

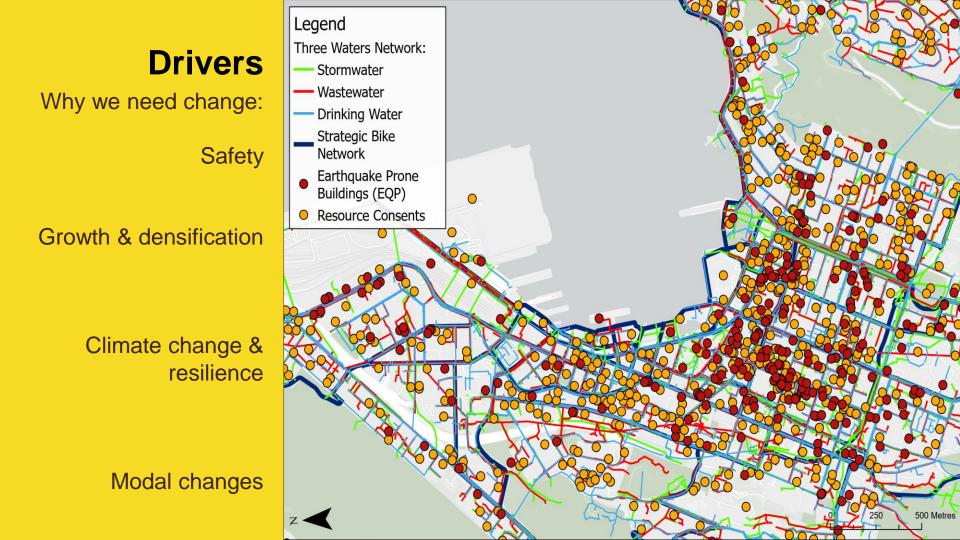
"The central problem is that everyone impacted by civil works suffers material inefficiencies because we don't know what we will find when we dig."



Me Heke Ki Pōneke

To improve our collective knowledge of what lies beneath our feet

OUR GOAL



Drivers

Why we need change:

Safety

Growth & densification

Climate change & resilience

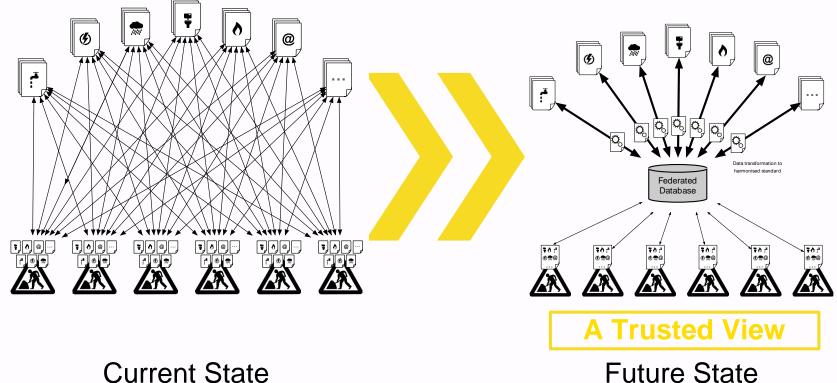
Modal changes





Source: Auckland Transport

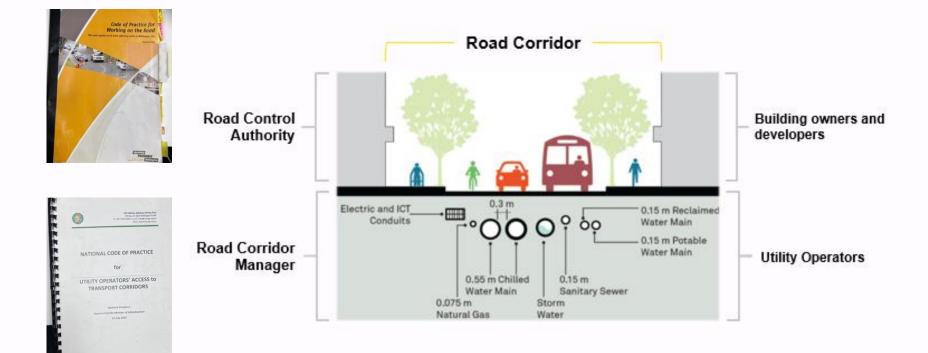
What we need





Attribute	Value
IS ID	927034
NIT ID	2071184
OMP KEY	2531766
ERVICE	Local
TATUS	OP
IAMETER	150
IATERIAL	PVC-U
ISTALLED	11/07/2001
ROCESS	Gravity
OSITION	Buried
ROUP	Pipe
UBTYPE	Main Line (L)

The Role of the Corridor Manager



Why are we doing this: Target Outcomes



Safety profile of excavation work

Accuracy in the cost-estimation of projects

Planning and delivery of construction activity

Location of underground service corridors (empty space) for the installation of new infrastructure

Asset knowledge and stewardship in lifecycle planning and maintenance

Compliance with regulatory obligations

Market Performance and Management

Estimated Rate of Return

~12x

With Potential National Economic Benefit Cost Ratio of **up to 30x** *

* UK NUAR estimates

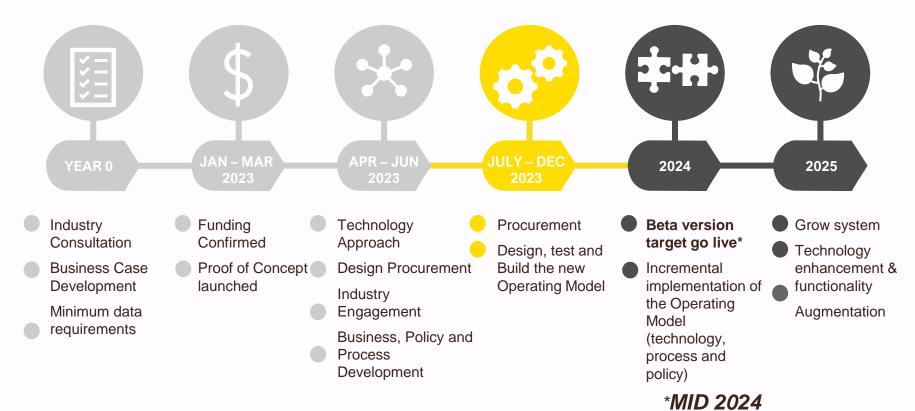


Time, cost and risk for the design phase of subsurface infrastructure projects

Contract cost risk

Disruption to the community – particularly businesses and road users

Programme roadmap



Our Focus

Workstream 1 Policy / Process	Workstream 2 Asset Data Sharing Platform (Technology)	Workstream 3 Internal Change & Alignment for WCC	Workstream 4 Sector support & national engagement	Workstream 5 Corridor management integration (technology)	Workstream 6 Value Add (technology augmentation by private sector)
 Minimum Data Requirements Update Protocol Notification Period Data Sharing Mandate Security & Access 	 Federated Asset Database Buy / Build / Adapt? 	 Legal Process Resource Training Systems Data 	 Engagement with government departments Engagement and communication with sector Technical support to sector 	 Workflow development System integration with corridor consents Seamless interaction between sector & council 	 Wider market opportunity Standardised input / output protocols Permissions and authentication Integration with private sector applications

Operating Model

Our Vision – something we collectively develop

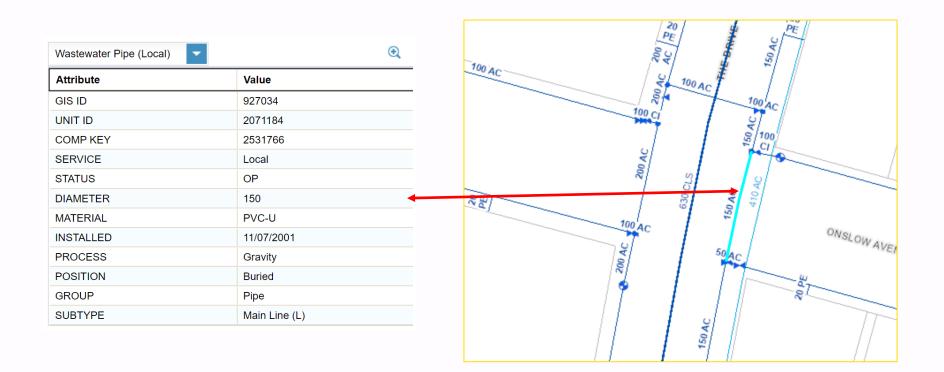
To provide a single, authoritative, and trusted view of relevant asset and contextual data so that work in the subsurface environment can be undertaken safely and efficiently

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



How we expect the platform to operate



Asset data structure:

Concept (MUDDI)

OWNER INFORMATION	 The owner and business contacts of the data The sensitivity and criticality of the asset 			
UTILITY INFORMATION	 Asset type (based on utility) Specific asset details (e.g. Operating voltage) 			
	 Geospatial data The quality and the accuracy of the data 			
OBJECT INFORMATION				

Detail

Mandatory

 Required minimum data to understand what and where the asset is located, as well as any critical safety risks associated with the asset.

Conditional

• Mandatory data specific to the asset type.

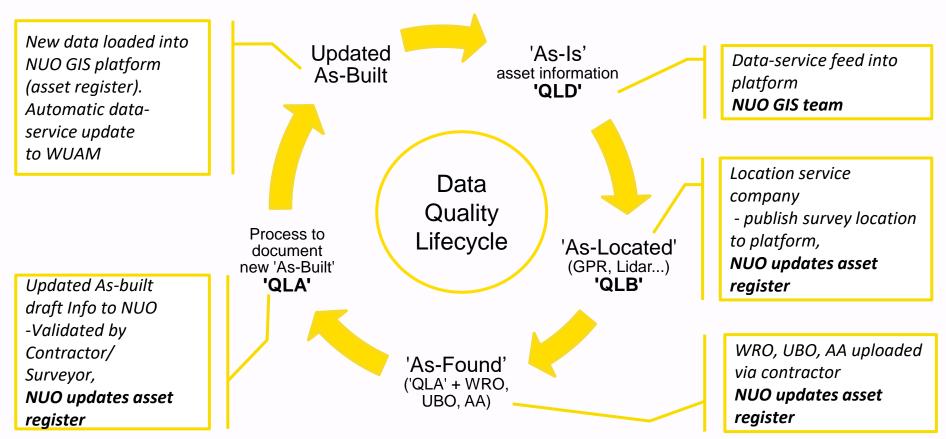
Optional

Data the Asset owner may have available and be useful / important to know.

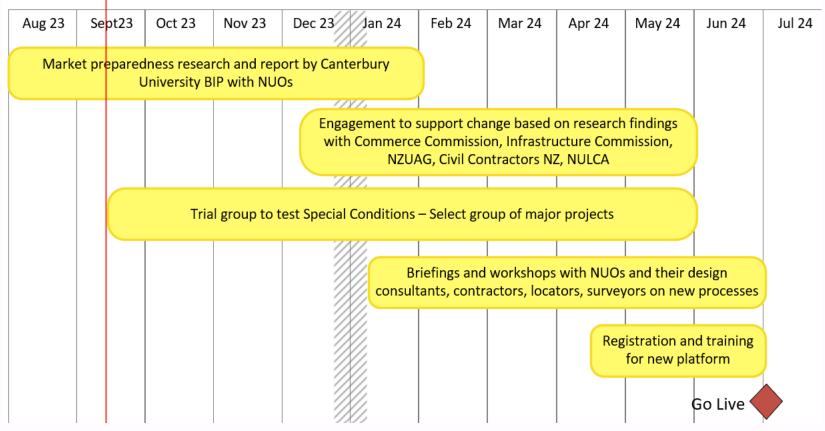
Future

• Other asset attributes described by MUDDI that could be used within future system.

Process to capture and improve asset information



What will it mean for you and the sector?



Each drop creates a Roto





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Wellington City Council Web Page