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Starting soon...

# Aotearoa Property Data Network

LINZ news and project updates

12-1pm, Tuesday 28 November 2023



Te Kāwanatanga o Aotearoa  
New Zealand Government

# Opening karakia

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

12-12:05pm	Welcome and opening karakia
12:05-12:20pm	News and updates <i>various Toitū Te Whenua stakeholders</i>
12:20-12:40pm	Digital Parcel Improvement Project <i>Philip Smith, Spatial &amp; Request Analyst</i>
12:40-12:55pm	Ratings Valuations Rules Review <i>Ben Reilly, on behalf of Andrew Freeth, Policy Project Lead</i>
12:55-1pm	Closing comments and karakia



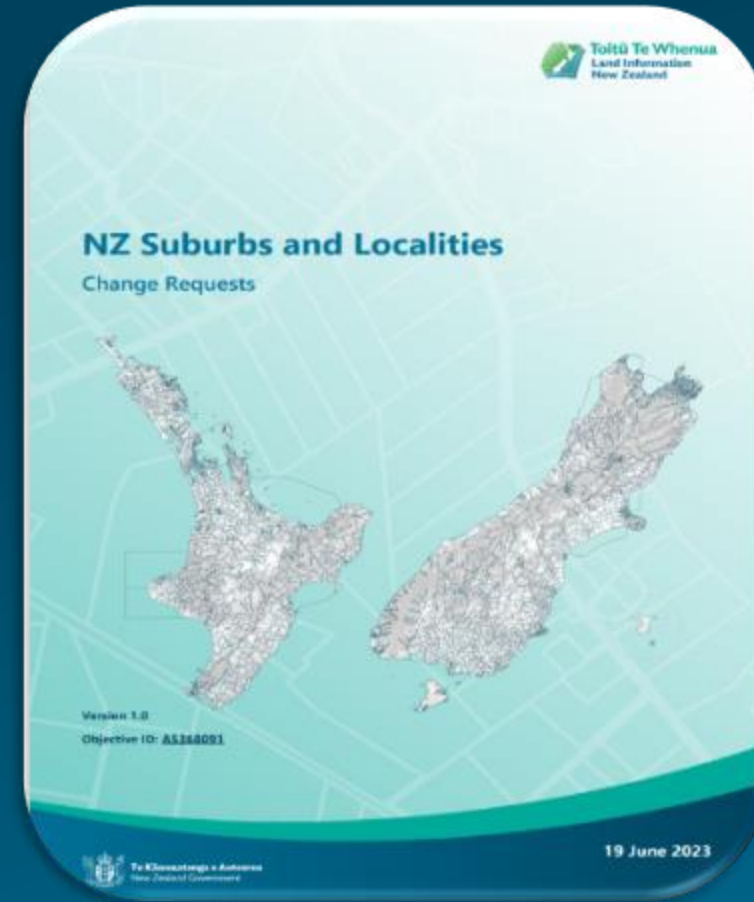
# LINZ News & Updates

 Miramar buildings rendering

# NZ Suburbs and Localities



- Change Request App
- First updates processed



# Property Boundary Dataset



- Looking at the release of a property boundary dataset shortly
- Useful to emergency services and others
- District Valuation Roll data not released as part of this process



# Property to address link



- Toitū Te Whenua will soon publish a table that provides an explicit link from Property to Address
- Table lists properties in the NZ Properties (pilot) dataset, and their address from NZ Addresses

The screenshot displays a user interface for linking property and address information. At the top left, the address "216 Bay View Rd, Dunedin City\*" is shown, with a toggle for "Show all parcels" and "EDIT" and "Share" buttons. Below this, two boxes represent different identifiers: "Rating Unit: 1" with a parcel icon and ID "27470-67500", and "Address: 2" with an aerial map icon and ID "146010". To the right, an "Address Details" panel lists: "Address ID: 50872", "Address Source: Lds::NzAddress", and "Address: 216 Bay View Road, South Dunedin, Dunedin". A large map of New Zealand is shown at the bottom, with a red dot indicating the location of Dunedin on the South Island.

# LINZ Data Service



- Owners data access changes

The screenshot displays the LINZ Data Service interface for the 'NZ Property Titles' layer. At the top, the Toitū Te Whenua Land Information New Zealand logo is visible, along with a 'More data services' dropdown menu. The URL bar shows 'https://data.linz.govt.nz/layer/50804-nz-property-titles/'. Below the URL, the title 'NZ Property Titles' is displayed with a 'Map +' button. The 'Info' tab is selected, showing a map of New Zealand and the 'Data Type' as 'Polygon Layer, 2.3M Polygons'. At the bottom, a table provides metadata for the layer.

Date Added	Last Updated	Views	Exports	Layer ID
+ 31 May 2011	🕒 25 Nov 2023	👁 1M	↓ 153.6K	📄 50804






# Digital Parcel Improvement (DPI) Project

**Philip Smith**  
Spatial & Requests Team - Christchurch

[spatialrequests@linz.govt.nz](mailto:spatialrequests@linz.govt.nz)

 Lake Pukaki, Canterbury

# DPI Project

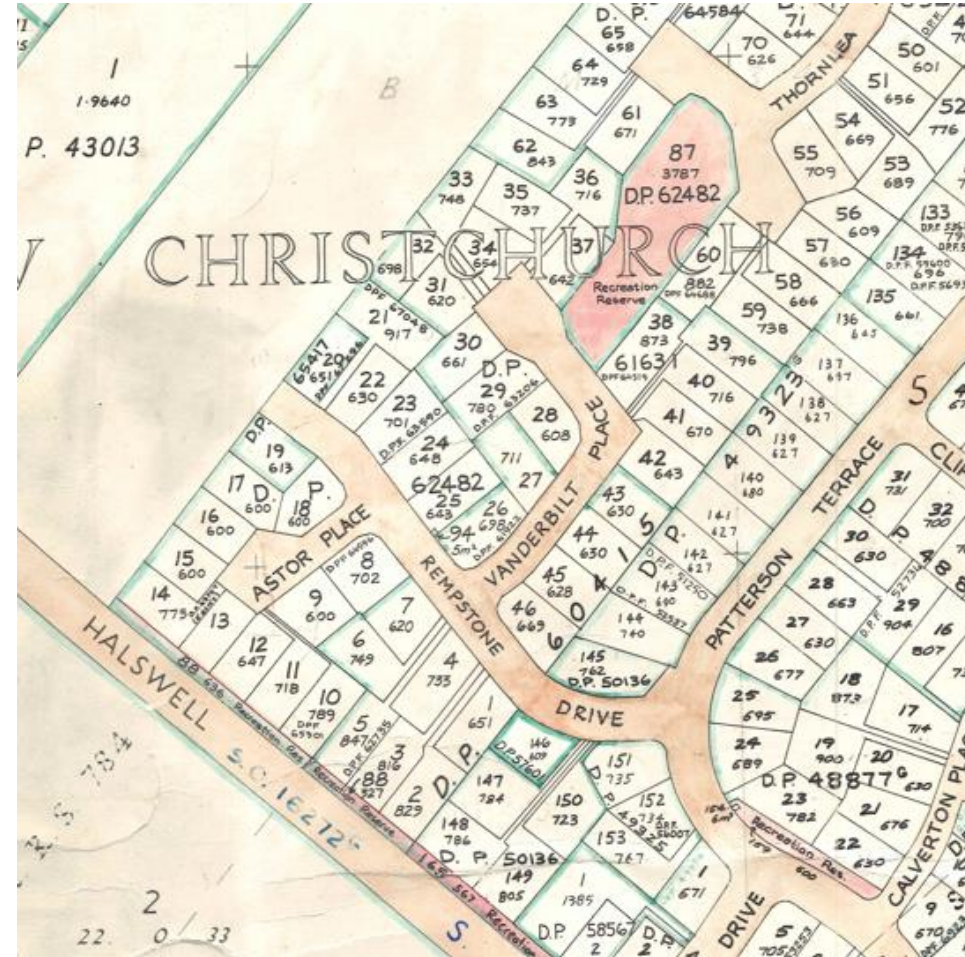
An initiative led by Waka Kotahi to improve the spatial accuracy of the digital data representing the state highway corridor boundaries throughout New Zealand.

Project partners Toitū Te Whenua and survey firms WSP, BECA, Aurecon and Harrison Grierson



# Digital Cadastre – a brief history

- Landonline holds the digital data for parcel boundaries of properties, rivers, lakes and roads.
- Prior to 1980s – Record sheets provided the index to property data



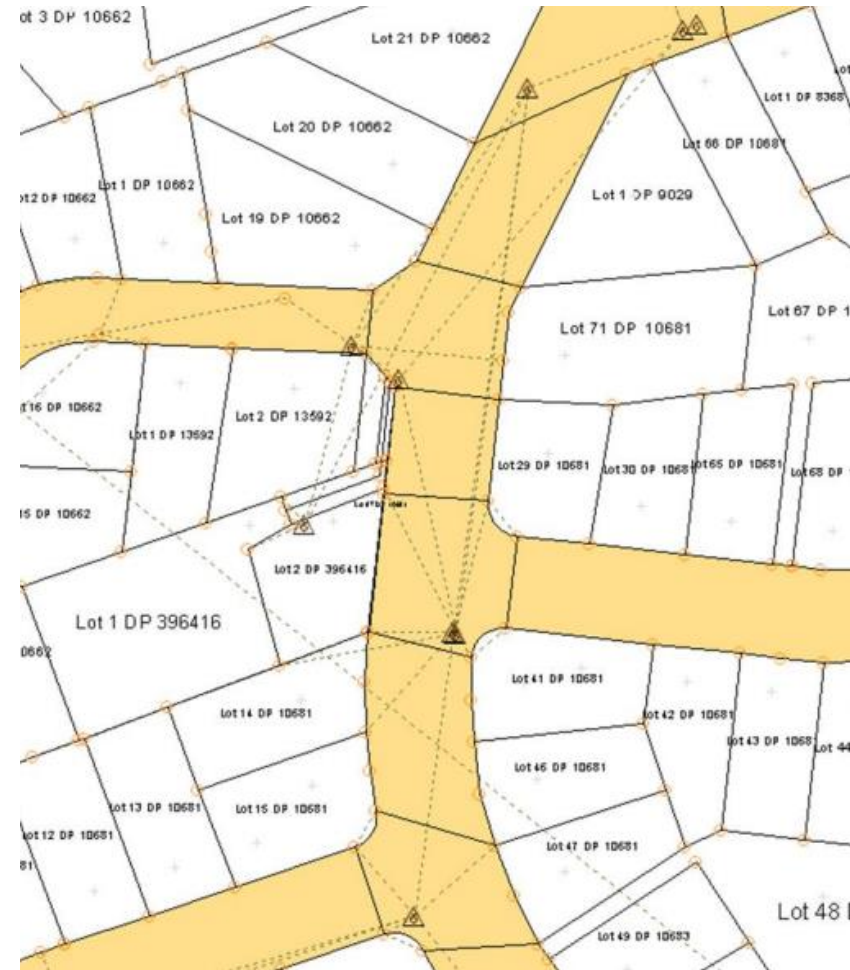
# Digital Cadastre – a brief history

- 1980s – 2000 – Record sheets digitised into the DCDB.
- Manual entry of survey data from plans added.



# Digital Cadastre – a brief history

- 2000 – present. Spatial data from DCDB added to Landonline and maintained there.
- Progressive update - survey data replaces pseudo data as new datasets are submitted and processed.
- Still large areas of data defined by digitised pseudo vectors.



# DPI Project

Began in 2016 with consultation and discovery by Waka Kotahi and Toitū Te Whenua

**Aim** – to improve the spatial representation of the state highway network by upgrading the original digitised (pseudo) vectors to full survey vectors.

Toitū Te Whenua developed a bespoke process for capturing the data, amending Landonline and approving DPI datasets.

Survey firms WSP, BECA, Aurecon and Harrison Grierson prepare the survey datasets with data from approved survey plans.

# DPI Project

Between 2016 – 2020 the most inaccurate portions of state highway were improved

Some data movement up to 30m corrected

Since 2021 phase 2 underway targeting areas where Waka Kotahi have roading projects planned as well as areas of remaining pseudo data.

To date - 1611 datasets submitted, 25500 parcels upgraded

# DPI Project



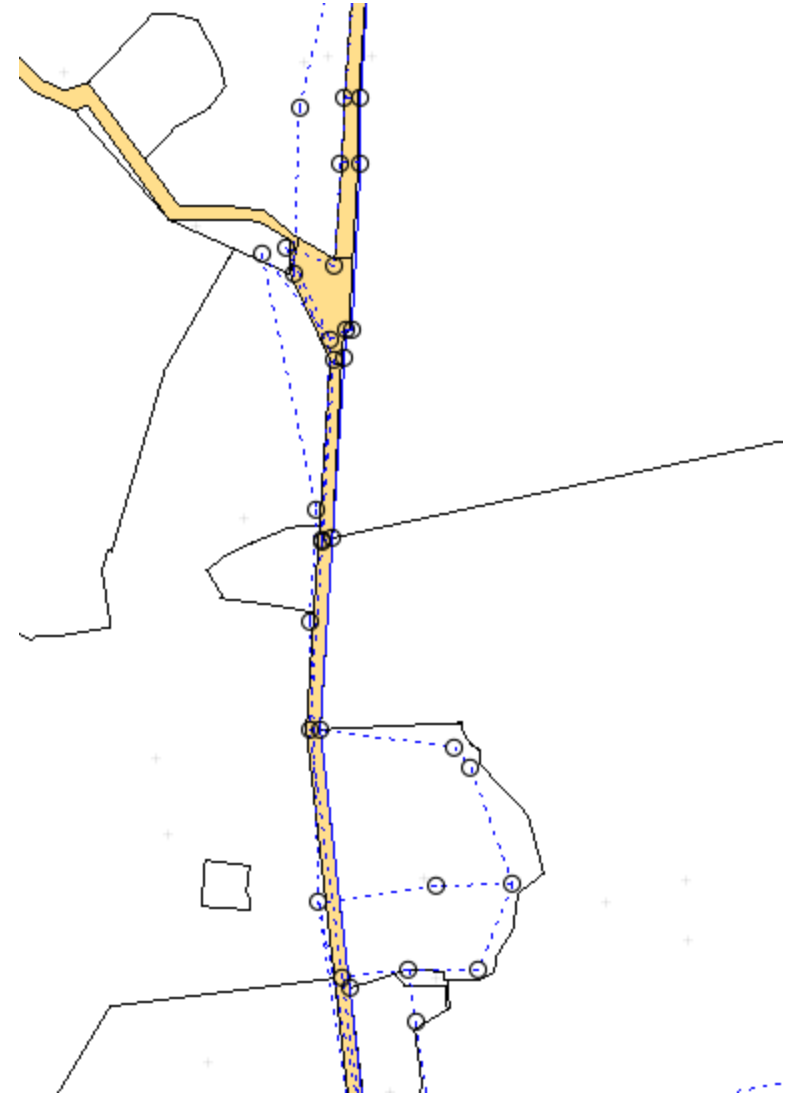


# DPI Project

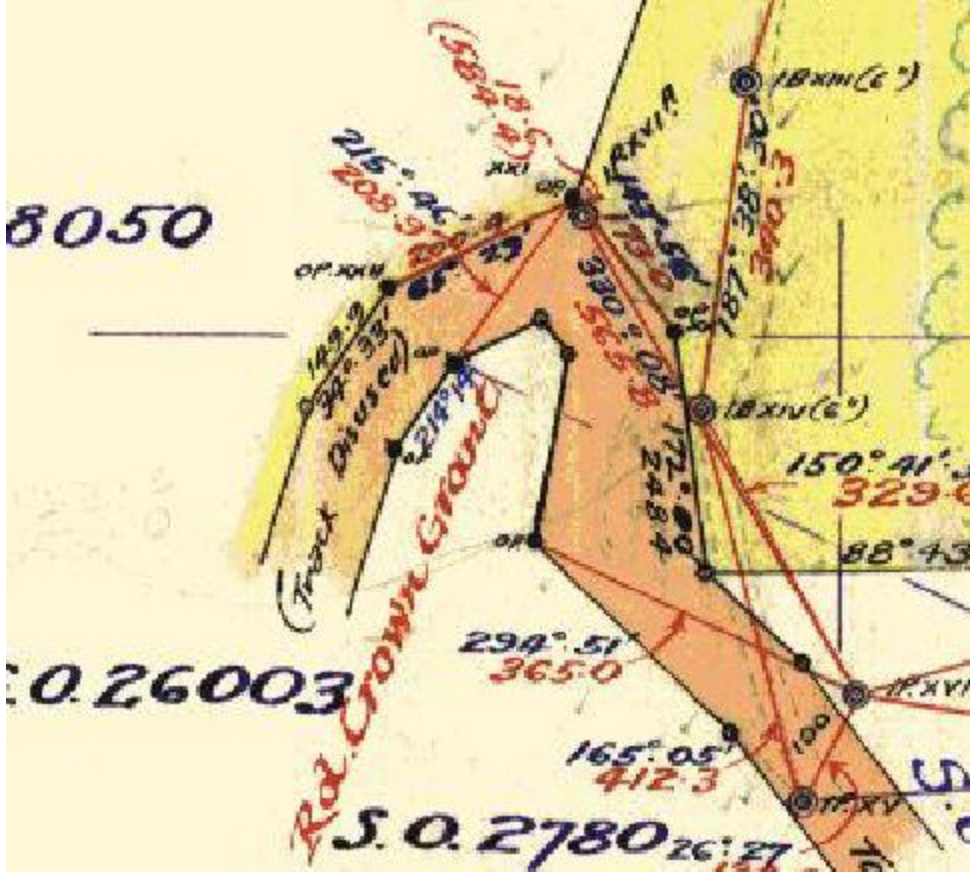
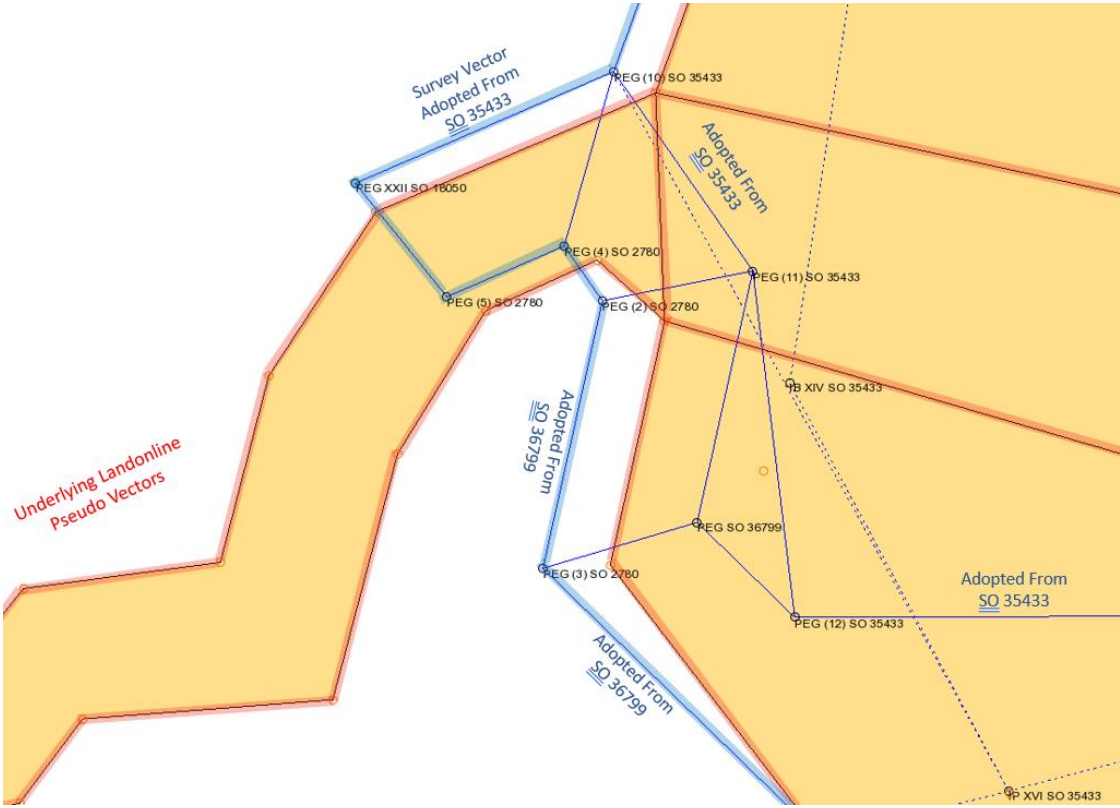


# DPI Project – The process

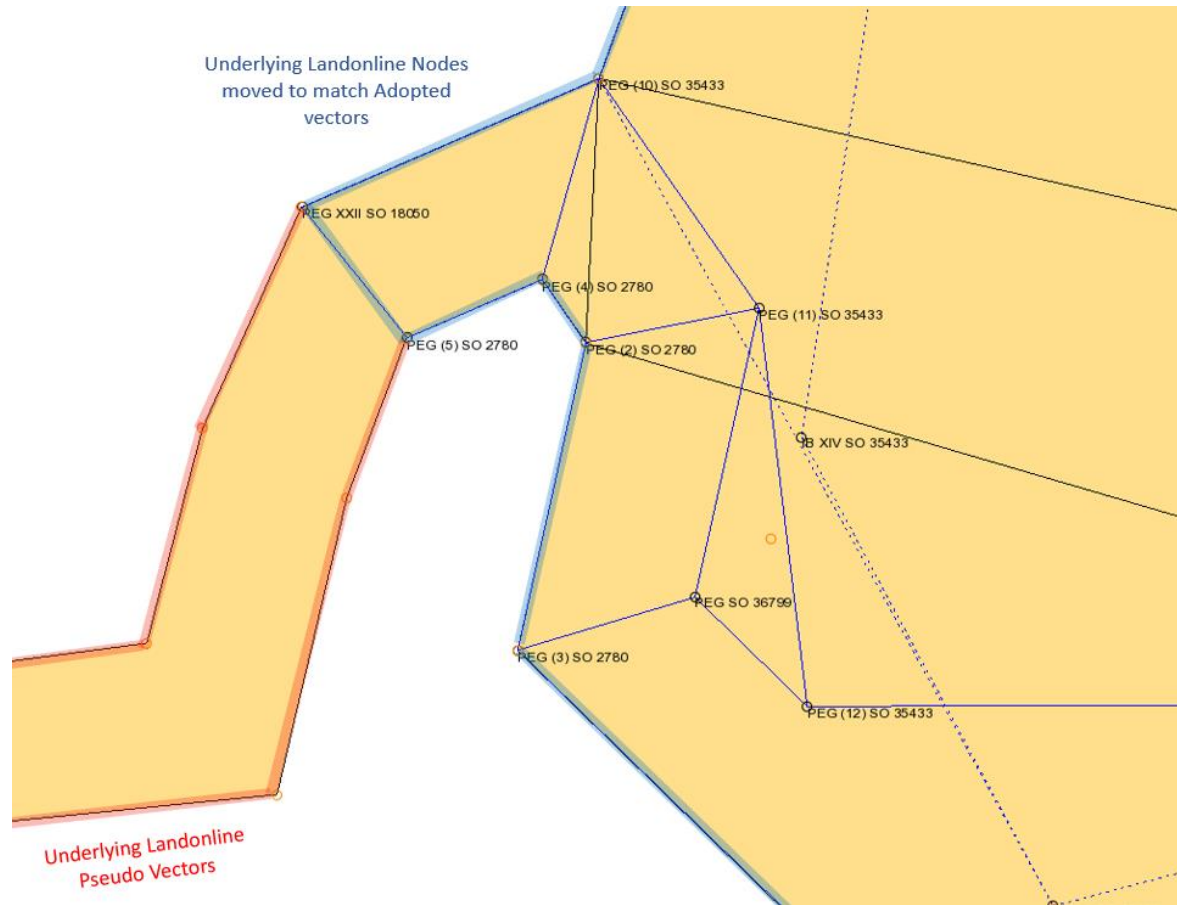
- Prepared datasets submitted into Landonline.
- Survey data is used to upgrade / amend the existing Landonline data by the Spatial & Requests Team.



# DPI Project – before upgrade (SH 11)



# DPI Project – after upgrade (SH 11)



- Existing Landonline nodes are moved to match the captured data
- After approval the pseudo vectors are replaced by the survey vectors
- Node co-ordinates are assigned highest value possible.

# DPI Project – SH 1 Clough Rd Kaitaia



# DPI Project – SH 1 Clough Rd Kaitaia



# Project Benefits – Toitū Te Whenua

- Landonline now contains an increasing amount of improved spatial data along a significant portion of the state highway network.

- 
- Parcel boundaries along state highways are becoming fully survey defined and spatially accurate

- 
- Forerunner for further digital parcel improvement work carried out by the Spatial & Requests Team

- 
- Facilitating increased replacement of pseudo data with meaningful survey data

- 
- All users of property data available through the LINZ Data Service benefit from the more accurate data this project generates.

# Project Benefits – Waka Kotahi

- The upgraded digital data has become a foundation when undertaking the investigations required for roading projects

- 
- Confidence in boundary location for road safety programmes, transport projects, speed management and recovery works

- 
- Certainty in land and asset ownership enabling accurate asset management and valuations

- 
- Confidence in encroachments onto state highways for designation and revocation reviews

- 
- Property acquisition and disposal



# Project Benefits – improved data



This is an example of a 5 – 10m shift and provided confirmation that the existing road formation is within the legal road corridor.

Blue – pre DPI processing

Yellow – post DPI processing



# Project Excellence Award Winner



# Thank you!

# Happy to take any questions

[spatialrequests@linz.govt.nz](mailto:spatialrequests@linz.govt.nz)



# Ratings Valuation Rules Review

Takapuna, Auckland

# Objectives



- Improve data quality and rating valuations processes
- Undertake a general tidy-up, updating legislative references and anything else that is out of date.
- Continue to support a nationally consistent, impartial, independent, and equitable rating valuation system.

# Phase 1 – District Valuation Rolls



## **Additions** proposed to data content of DVR

Including:

- Adding parcel ID
- Requiring the recording of additional property identifiers – e.g. for multiple buildings on one site

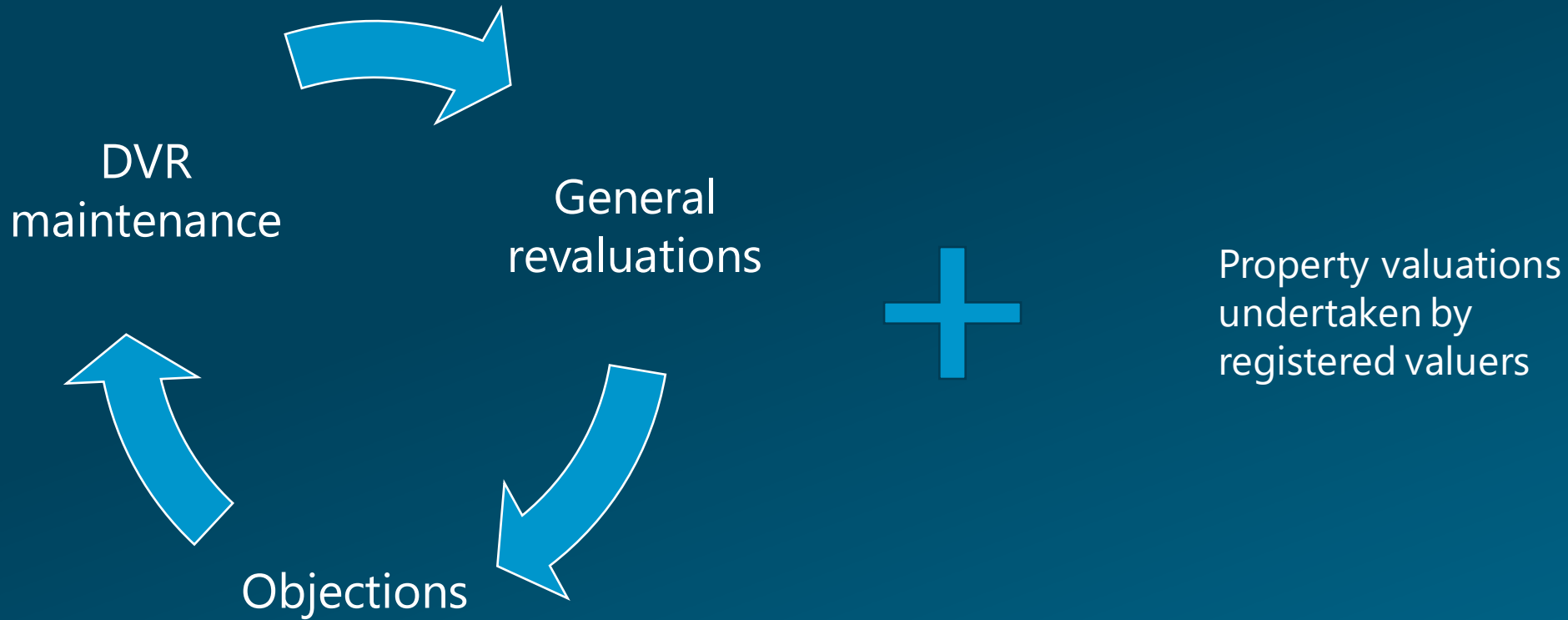
## **Improvements** proposed to improve data clarity and accuracy

Including:

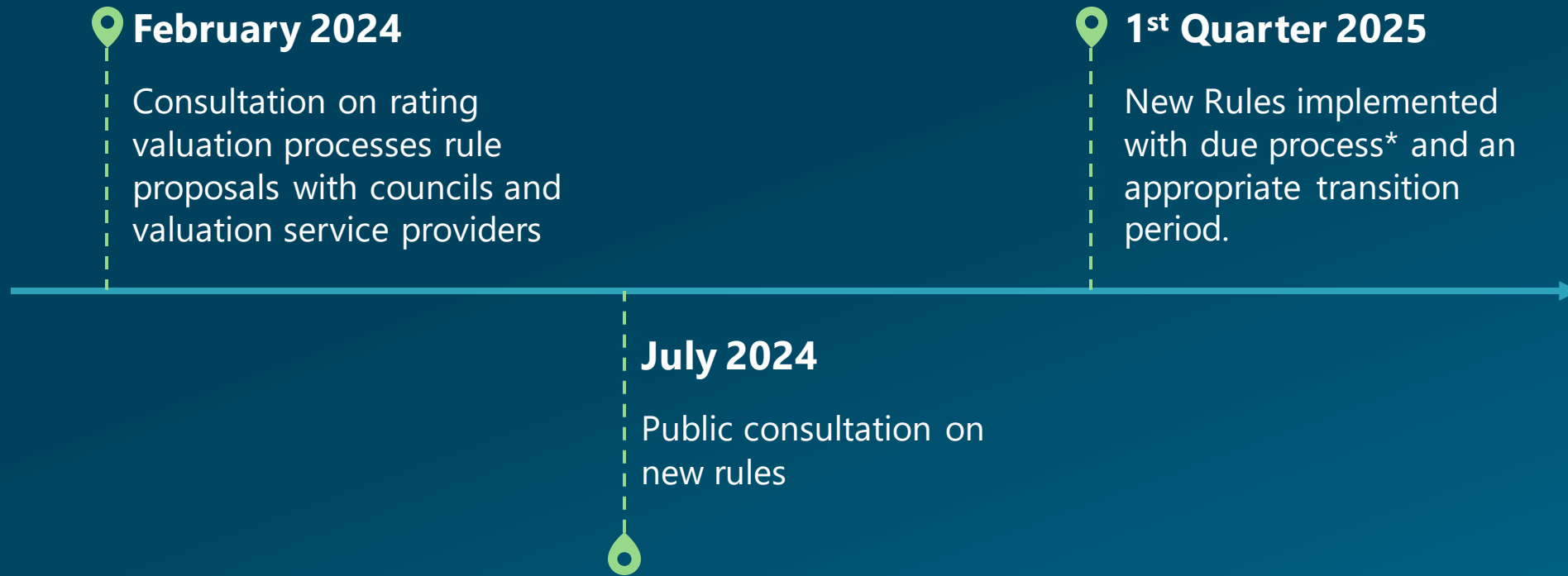
- Standardising how the address of the rating unit is recorded
- Ensuring certificates of title and legal descriptions match the Certificate of Title as the authoritative source



# Phase 2 – Ratings valuation processes



# Timeline



*Note: All dates are estimates and subject to change*

*\*Implementation follows approval of the new Rules by the Valuer-General and presentation to the House of Representatives by the Minister for Land Information.*



# Questions and contact information

Any questions, requests for more information, or if you wish to meet to discuss, can be directed to Andrew Freeth [a.freeth@linz.govt.nz](mailto:a.freeth@linz.govt.nz)

# Closing karakia

**Kua ea te kaupapa**

Our work has come to a satisfactory conclusion

**Ka rea ngā hua**

The fruit is growing  
(therefore the land and the environment are healthy)

**Ka rere ngā arawai**

The waterways continue to flow  
(therefore the waterways are strong and moving forward)

**Kua mau te mātauranga**

We now have the knowledge

**Hei arahina ngā mahi o  
Toitū Te Whenua**

To lead and drive the work of  
Toitū Te Whenua

**Kia tau te rangimarie**

May peace settle

**Ki runga i a tātou katoa**

Upon all of us  
(includes the wider LINZ whānau and our own whānau)

**Haumi ē, hui ē, tāiki ē!**

Gather and go forward together

# Thank you!