







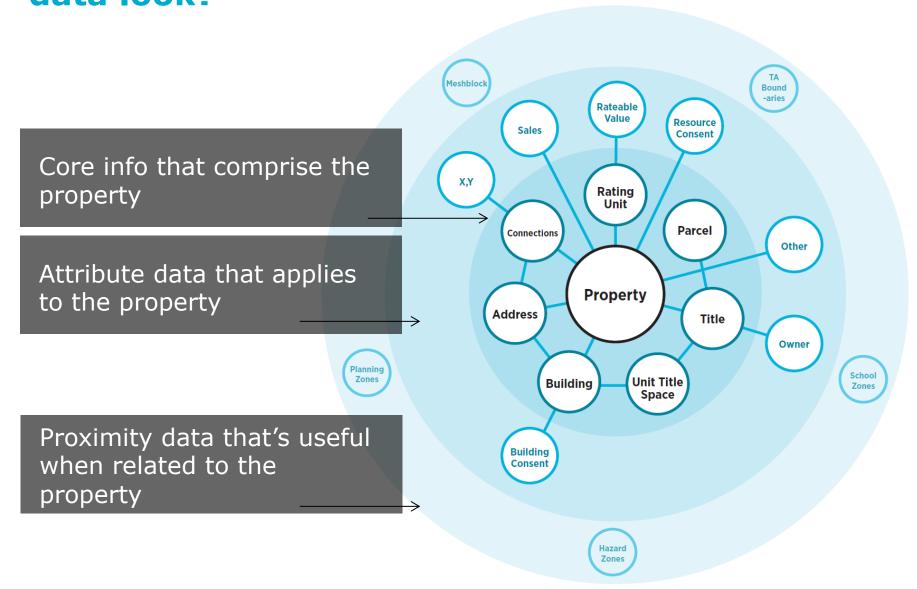
Integrated property services



Anticipating a **connected data future.** Looking at what we need to change to get there. Expectations of Implications for data online 24X7 data from changing land use and housing trends **3D** models such as **Building Information** Models Using machine-3D/4D views of based algorithms property and AI

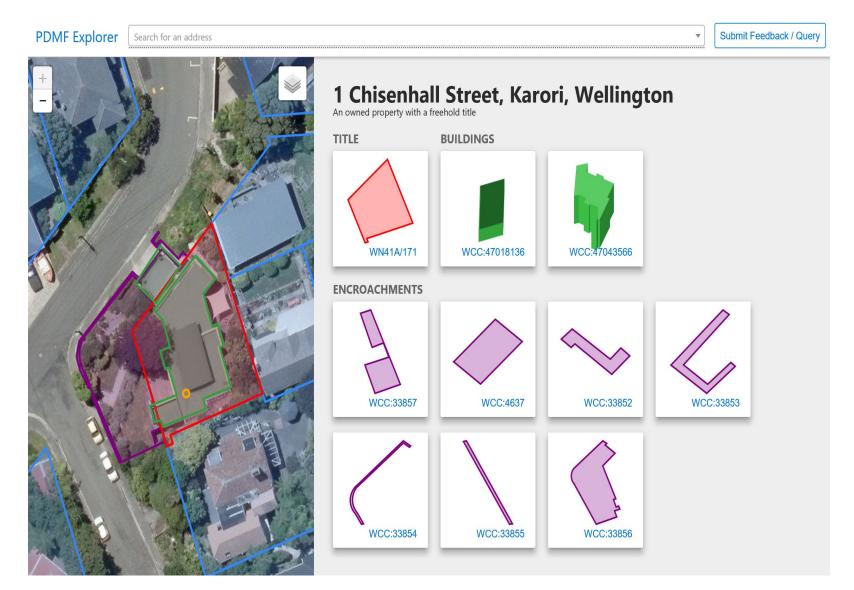
How could integrated property data look?





Road-testing connected data

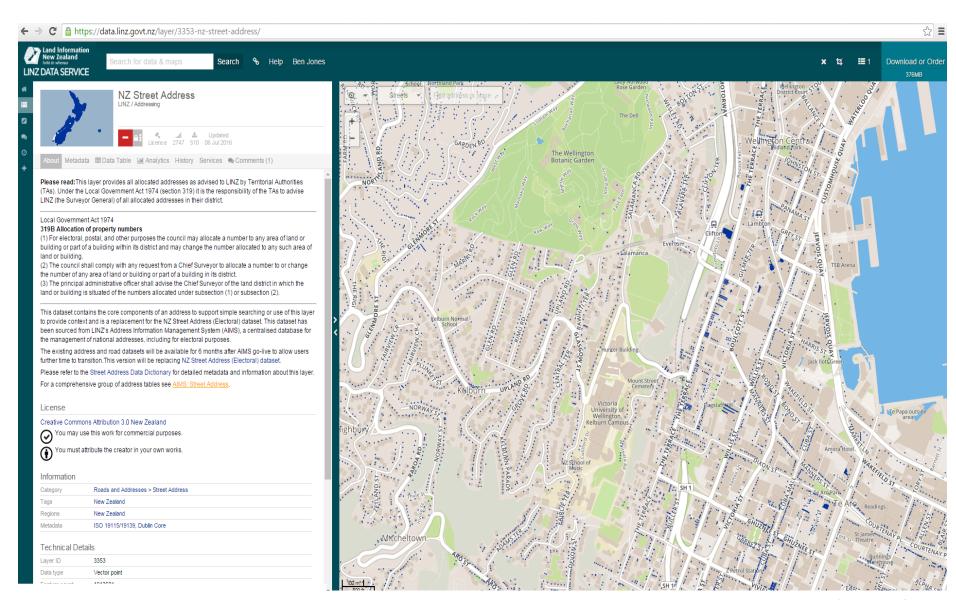






AIMS and roads data available





Improving addressing data



- Ready to build the case to invest in targeted improvements in the addressing system.
- Focused on a single source of truth address dataset.
- Currently running a 'proof of concept' for cost-effective ways to improve data quality.
- Working across government with NZPost, Stats NZ etc.









Create:

Re-use:

Derive:



Roads, rivers, water bodies...

Transmission/Distribution networks,
Ports, Vertical Obstructions, Ferry
Crossings, Aquaculture/Marine farms,
Vehicle Tracks, Foot Tracks/Huts,
Railways, Airports/Airstrips...



Coastline, Stop Banks, Contours, Building Outlines...



Building Outlines Pilot

LDS 2016

1,087,187 Buildings

4,305 Views

273 Downloads

3 Regions

LDS 2017

1,657,655 Buildings

8,041 Views

937 Downloads

8 Regions





Roads Progress

Addressing Roads

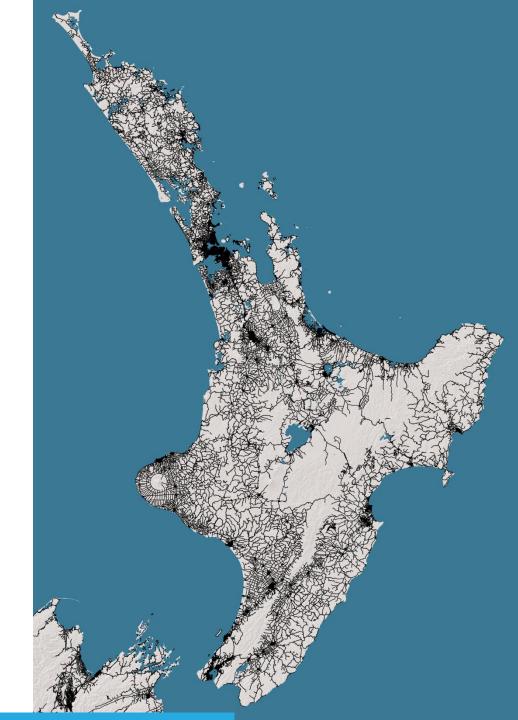
- New addressing roads database
- New simplified tables on LDS

Topo Roads

Focus on accuracy improvements

Future Roads work

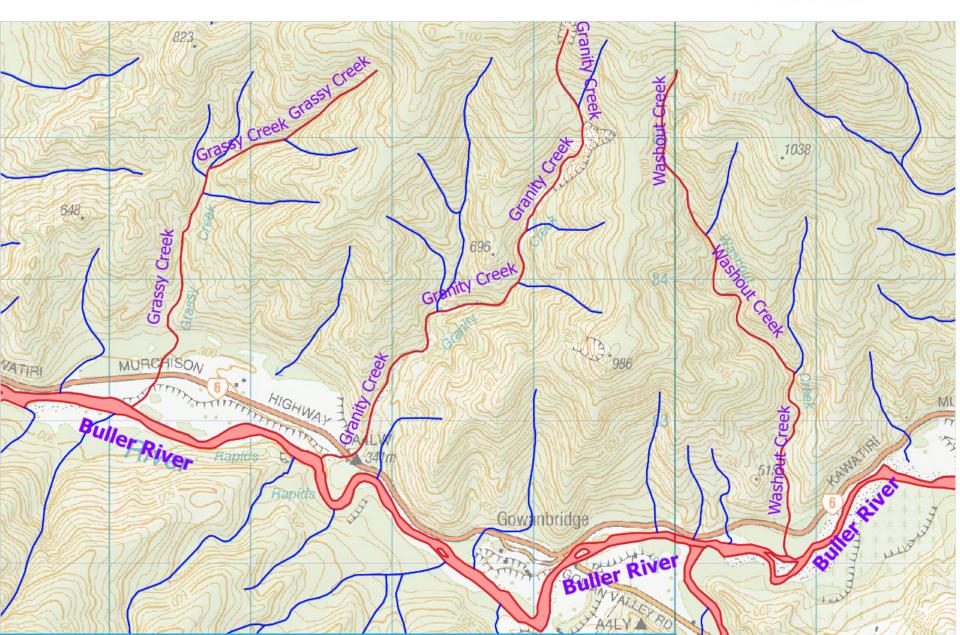
- Conflate addressing and topo roads
- Combined workflow for road management
- Improve attribution





River Names





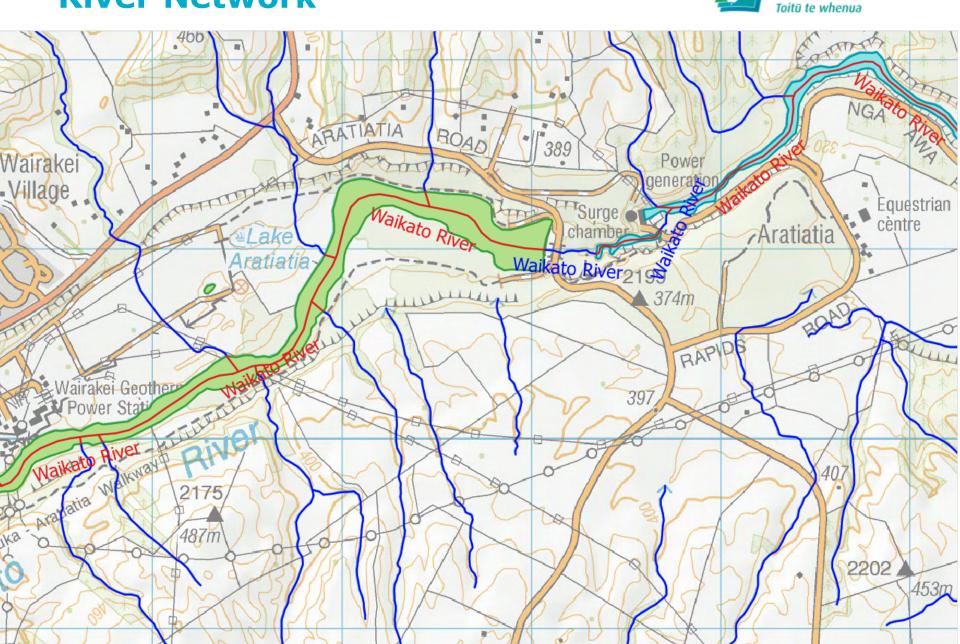
River Names Progress

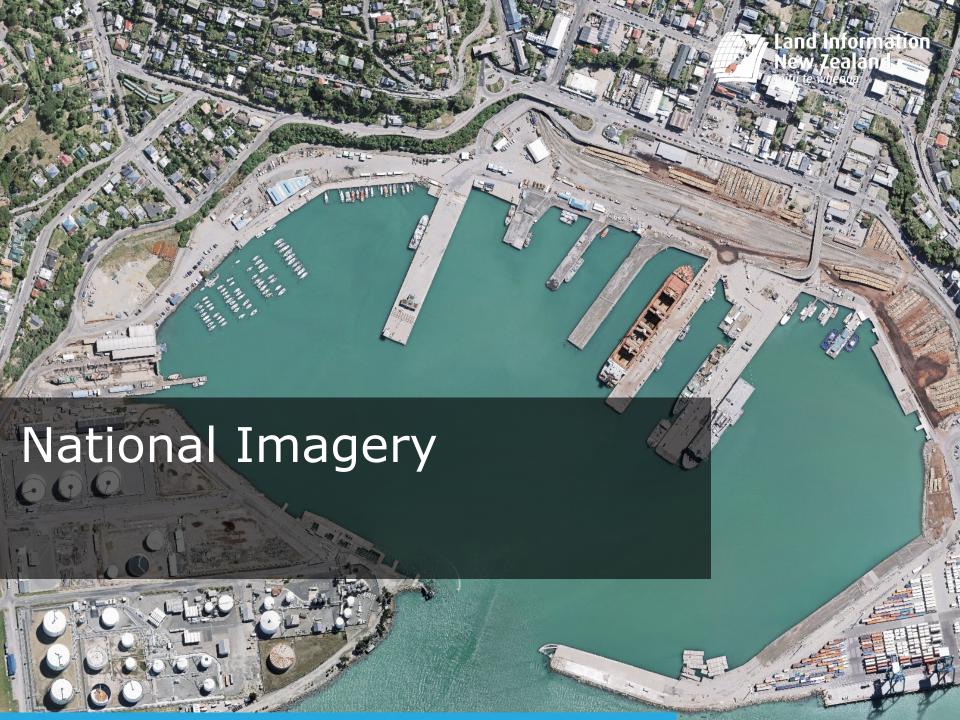
- Naming scriptCompleted
- Manual correction Current
- QA and fix ups
 Next



River Network







Urban Imagery

Not yet on LDS

- Hastings (2014-15)
- Tauranga (2014-15)
- Palmerston North (2015)
- Whanganui (2015-16)
- Invercargill (2016)
- Auckland (2015-16)
- Porirua (2016)
- Buller (2016-17)
- Hamilton (2017)



Regional Imagery

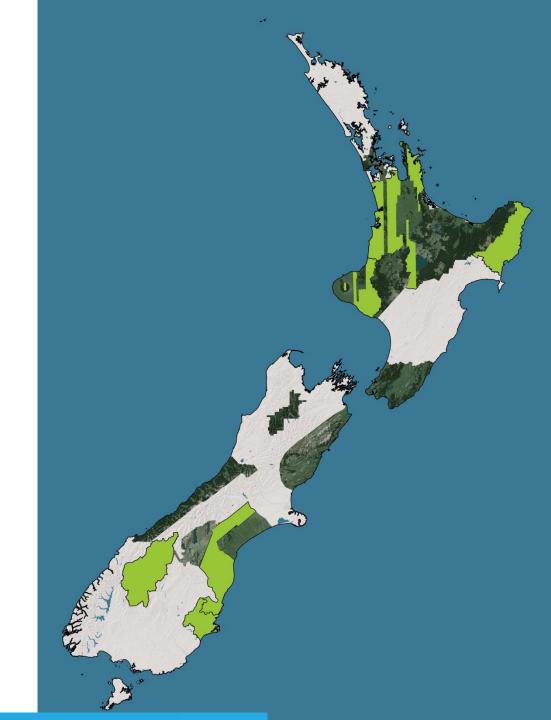
Not yet on LDS

- Tasman (2015-16)
- Grey/Buller (2015-16)
- Horizons (2015-17)
- Bay of Plenty (2015-16)
- Northland (2014-16)
- Southland (2013-16)
- Westland (2016-17)
- Tasman (2016-17)



National Imagery

- 2016/17 Planned
- 2016/17 Actual
- 2017/18 Planned





Scanning Partners

Northland

Auckland

Waikato

Bay of Plenty

Gisborne

Hawkes Bay

Wellington

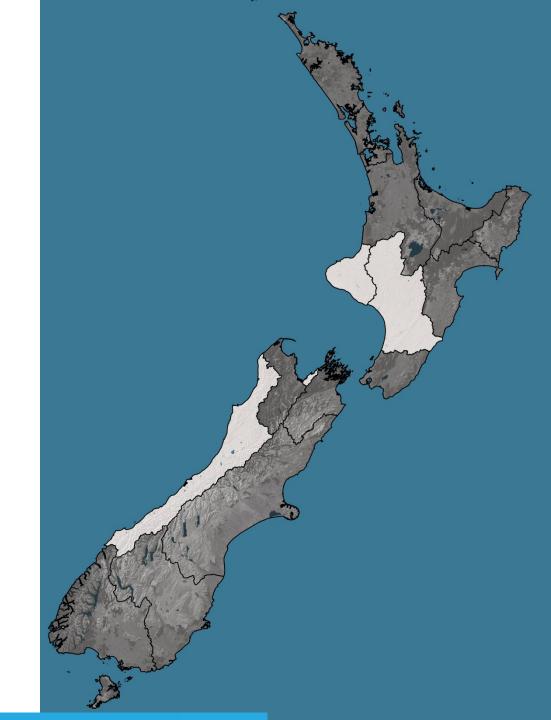
Tasman

Canterbury

Marlborough

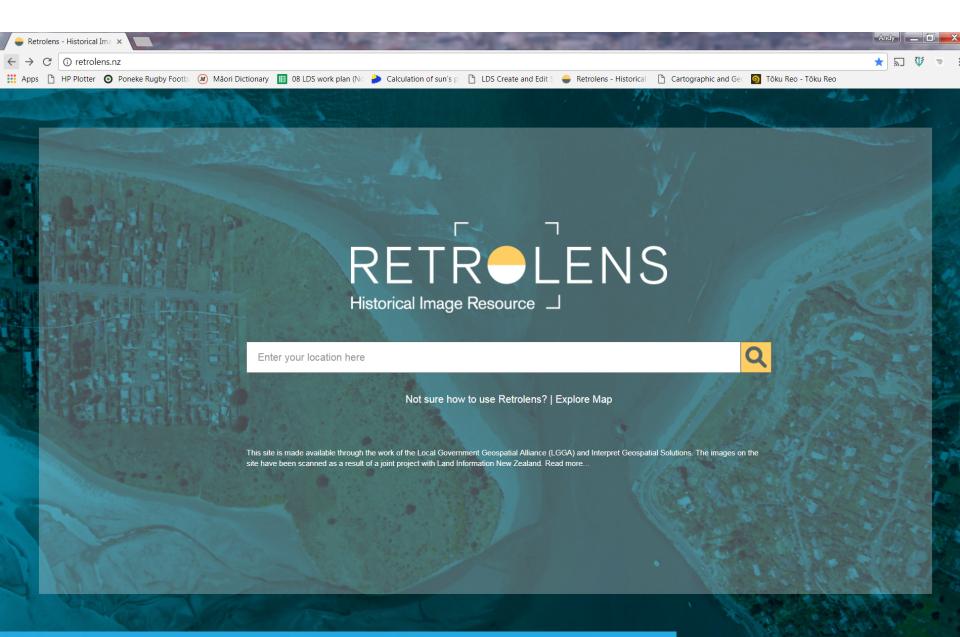
Otago

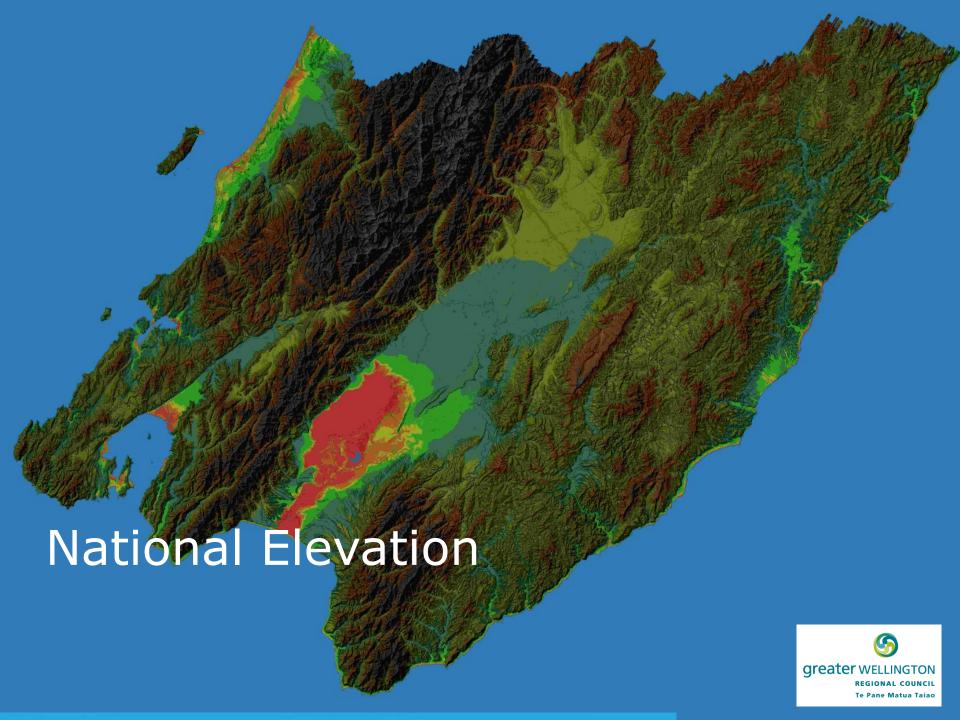
Southland



Access



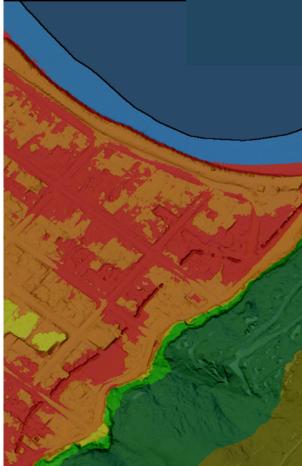


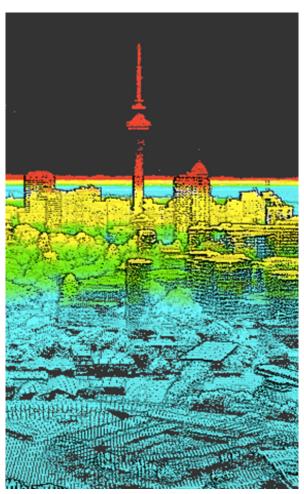


LiDAR based elevation data products 💋













LiDAR Coverage

LDS last conference

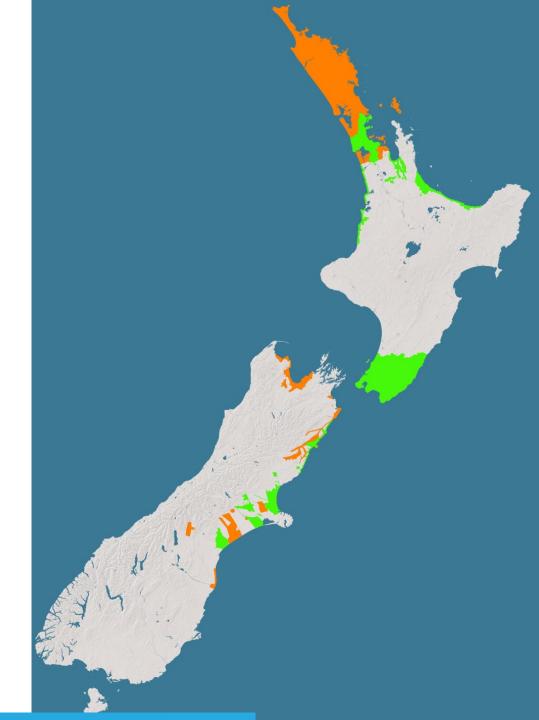
- 2,000 km²

LDS Now

- 16,000 km²

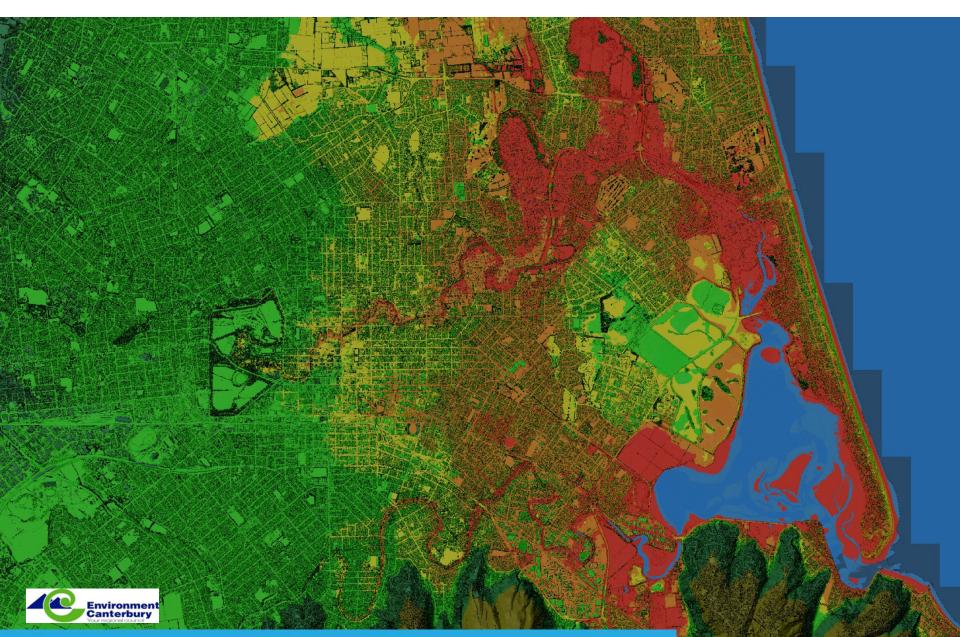
In Progress

- 20,000 km²



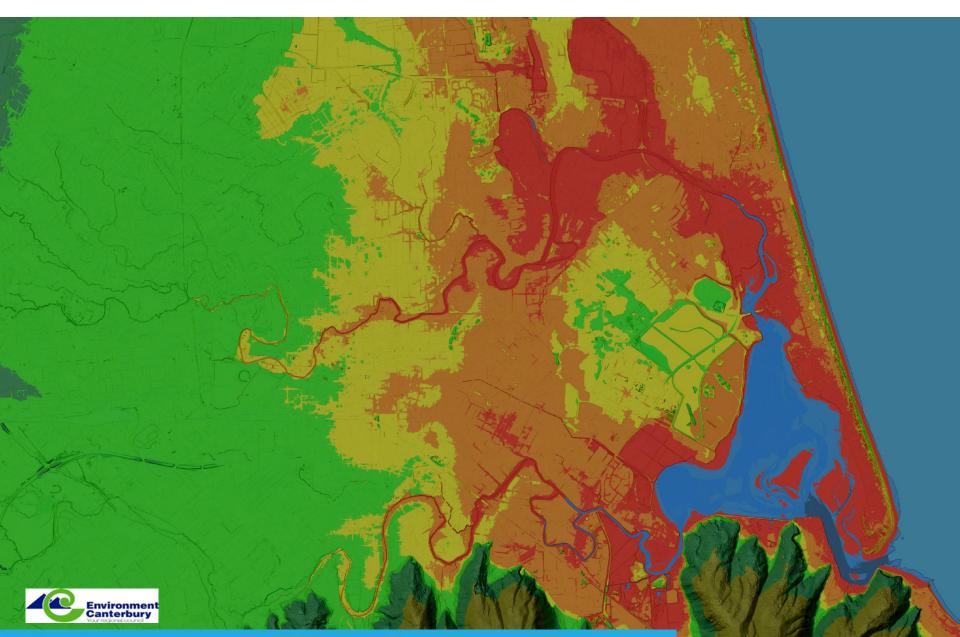
Christchurch digital surface model from LiDAR





Christchurch bare earth DEM from LiDAR





LINZ Data Service







