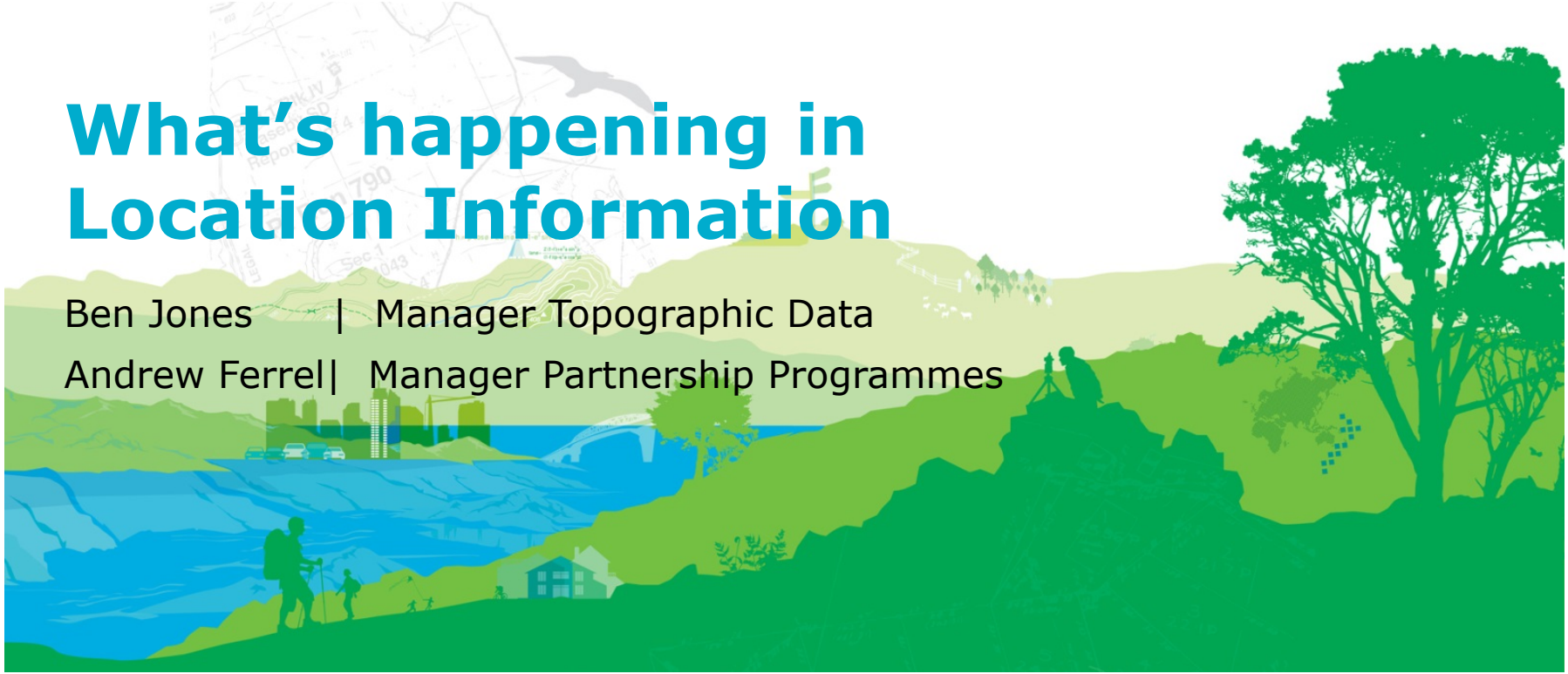
Land Information New Zealand
Toitū te whenua

What's happening in Location Information

Ben Jones | Manager Topographic Data

Andrew Ferrel| Manager Partnership Programmes



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Location Information

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Building Outlines

Building Outlines ~~Pilot~~

LDS 2016

1,087,187 Buildings

3 Regions

LDS 2017

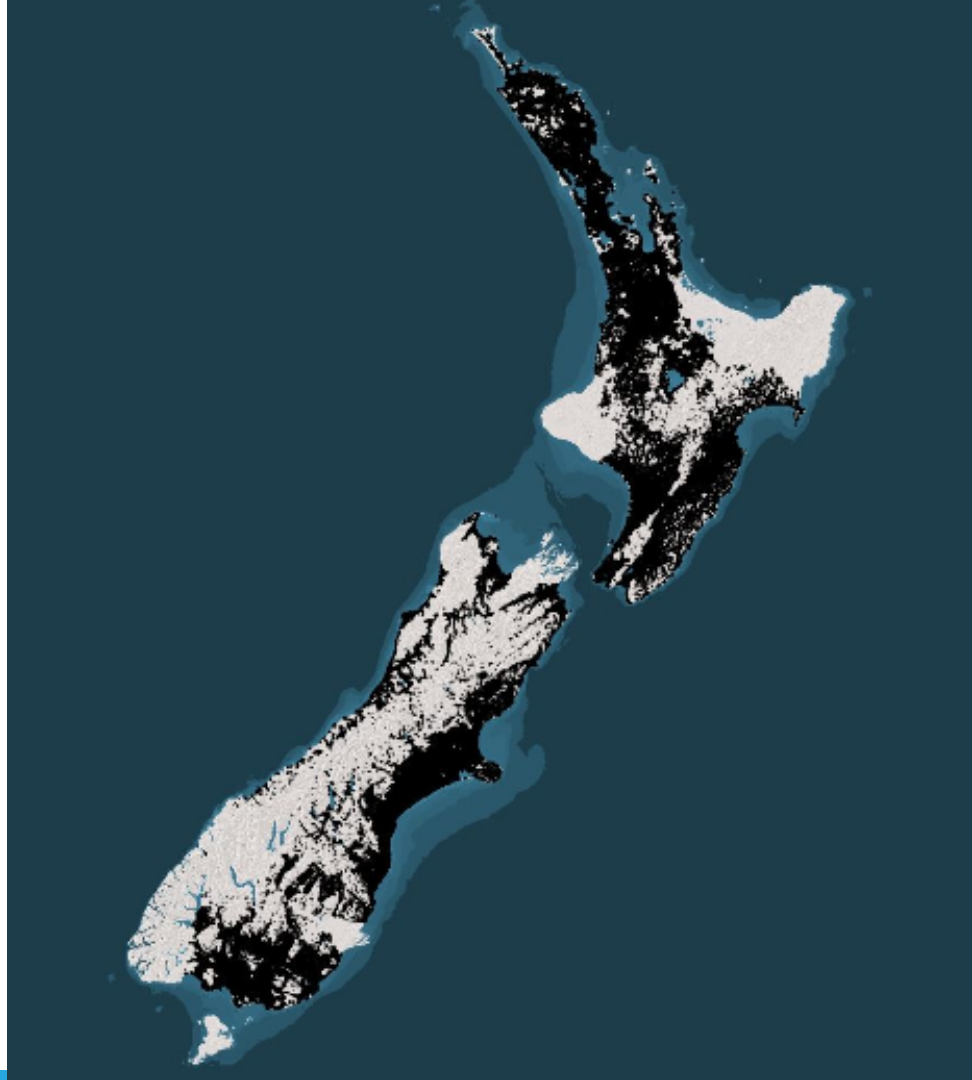
1,657,655 Buildings

8 Regions

LDS 2018

2,841,491 Buildings

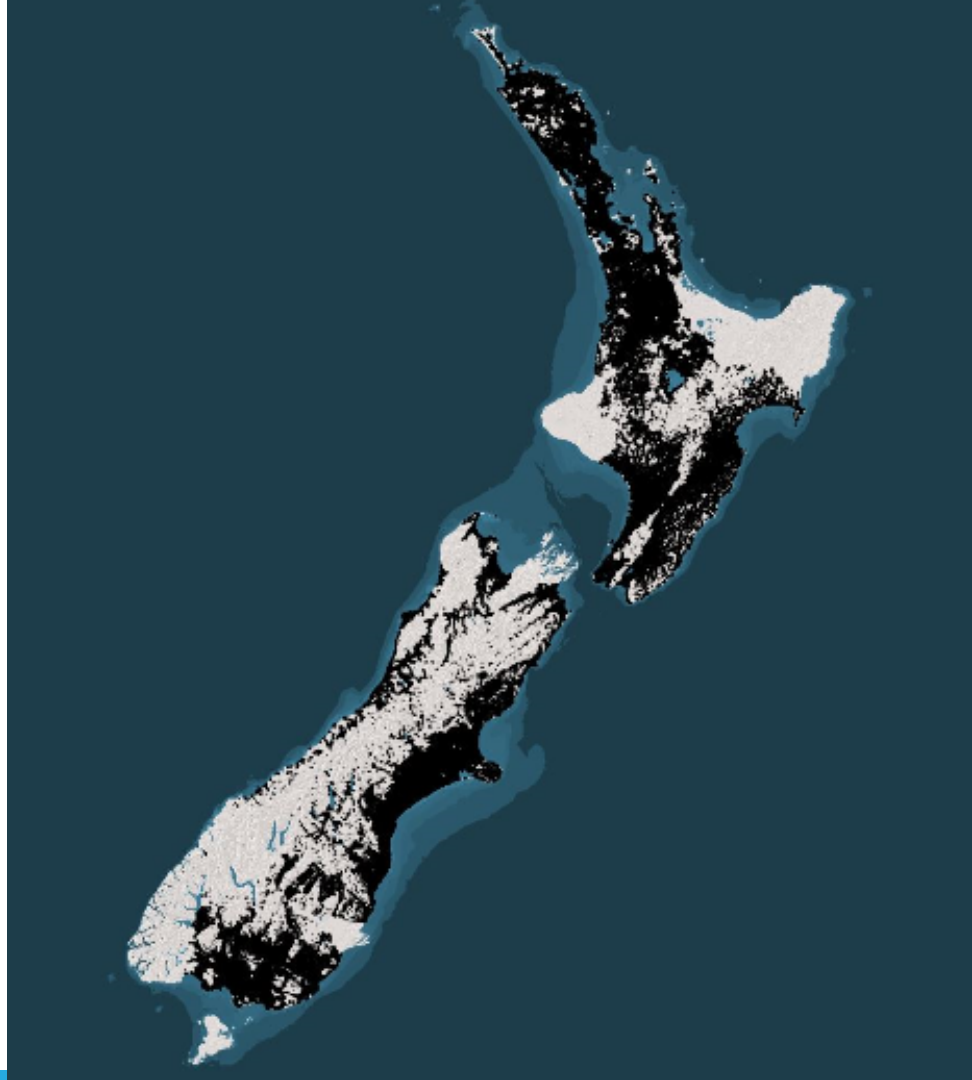
12 Regions



Building Outlines ~~Pilot~~

New Layer

- **Unique building identifier**
- **Building Outline linked to the aerial imagery**
- **Additional QA checks**
- **New schema has been developed**
- **Data Dictionary available now**



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Road Centreline

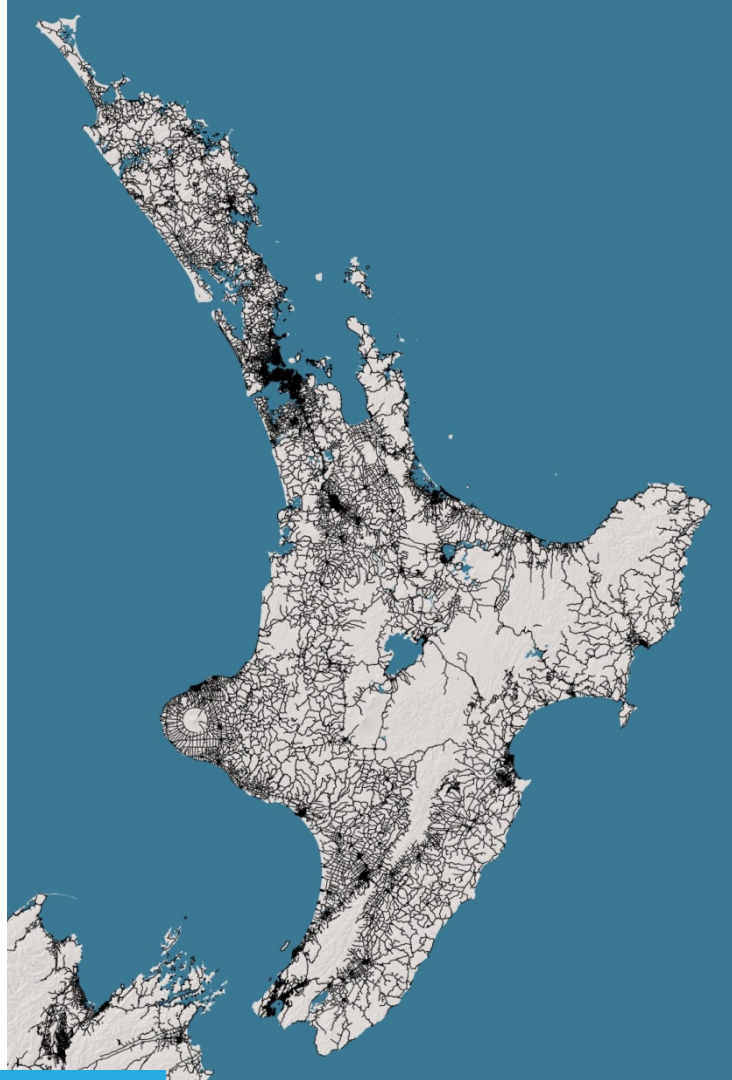
Roads Progress

Topo Roads

- **Focus on accuracy improvements**

Future Roads work

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



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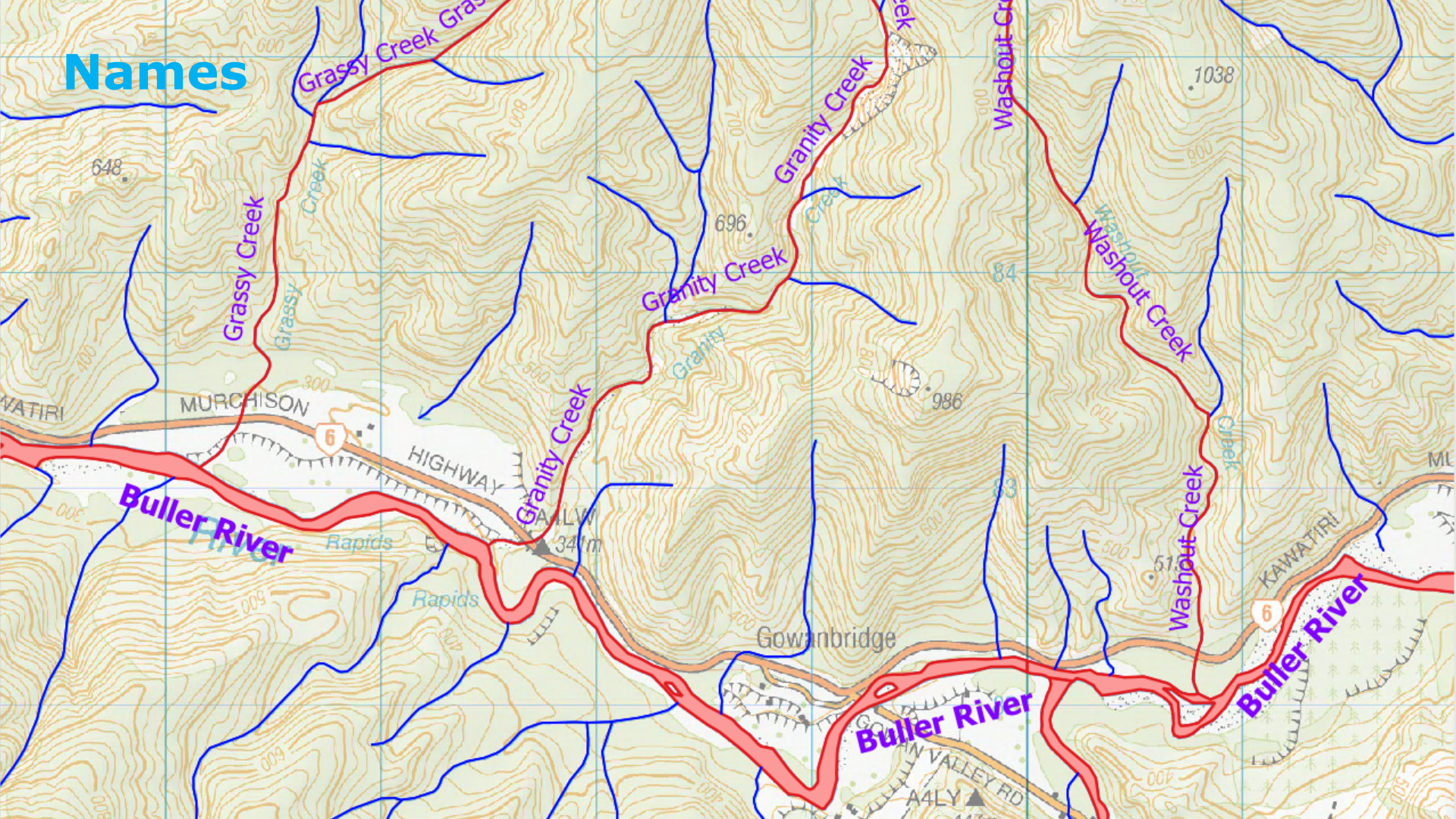
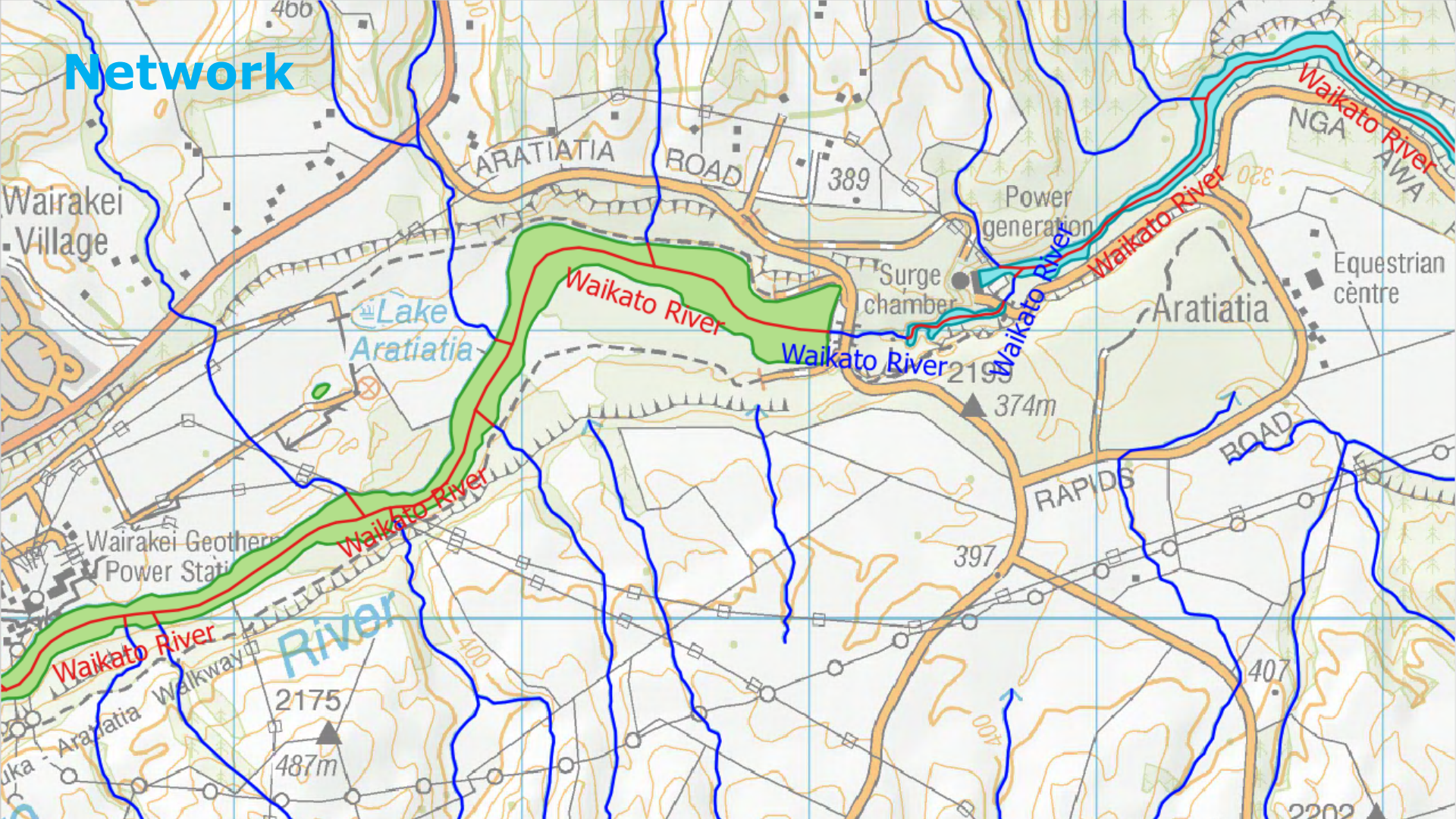
Rivers


Names
Grassy Creek
Granity Creek
Washout Creek
Buller River
MURCHISON
HIGHWAY
6
Rapids
Gowanbridge
KAWATIRI
A4LY
A4LW
1038
986
696
648

Network


ARATIATIA ROAD
Wairakei Village
Lake Aratiatia
Waikato River
Waikato River
Waikato River
Waikato River
Waikato River
Waikato River
Power generation
Surge chamber
Aratiatia
Equestrian centre
RAPIDS ROAD
374m
487m
2175
397
407
389
466
Aratiatia Walkway

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National Imagery

Regional Aerial Imagery

- Work in Regional Consortium
  - Regional Councils
  - Territorial Authorities
- Central Government
  - MPI
  - DOC
  - LINZ
- Creative Commons License
- Resolution ~ 30 cm
- Accuracy ~ 1m accuracy
- Available on the LINZ Data Service

Urban Aerial Imagery

Territorial Authorities

- Creative Commons License
- Resolution ~ 5 – 10 cm
- Accuracy ~ 30cm accuracy
- Available on the LINZ Data Service

NZ Imagery Surveys

LINZ / National Topographic Office

Licence 0 0 Added 15 Aug 2018

About | Metadata | Data Table | Analytics | History | Services | Comments (0)

The NZ Imagery Surveys dataset contains a comprehensive index of all orthophoto index tiles found on the LINZ Data Service. Each record in the dataset provides both a geometry of the maximum extent of the orthophoto index, as well as all attributes found in each index tile. This dataset therefore provides information to assess orthophoto coverage and metadata across the entire country.

Please refer to the NZ Imagery Surveys Data Dictionary for detailed metadata and information about this layer.

License

Creative Commons Attribution 4.0 International

You may use this work for commercial purposes.

You must attribute the creator in your own works.

Information

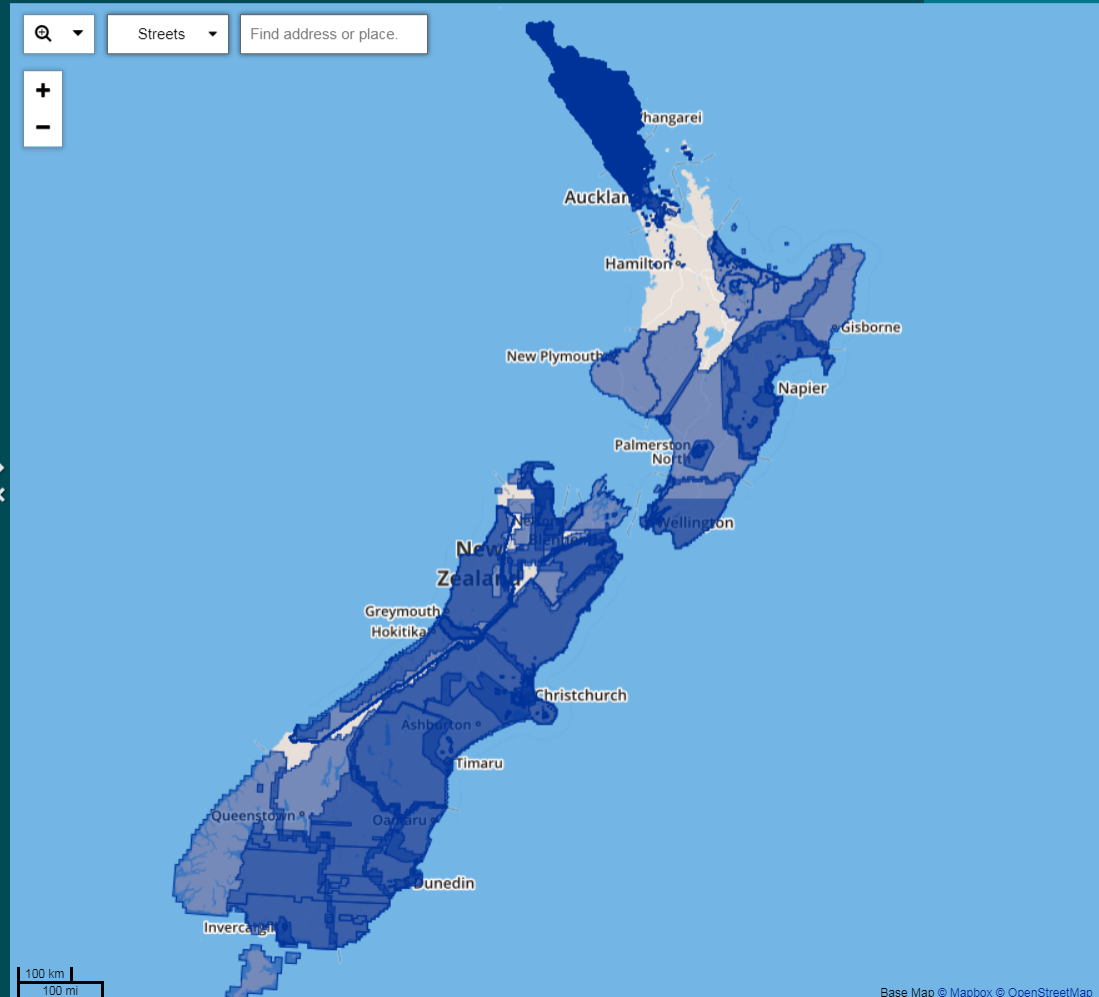
Category	Aerial Photos
Regions	New Zealand
Metadata	ISO 19115/19139, Dublin Core

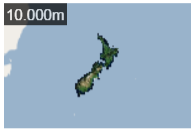
Technical Details

Layer ID	95677
Data type	Vector multipolygon
Feature count	95
Primary key	imagery_survey_id
Attributes	imagery_survey_id, name, imagery_id, index_id, set_order, ground_sample_distance, accuracy, supplier, licensor, flown_from, flown_to,
Services	Vector Query API, Web Feature Service (WFS), Catalog Service (CS-W), data.govt.nz Atom Feed

History

Added	15 Aug 2018
Last updated	15 Aug 2018
Revisions	2 - Browse all revisions





NZ 10m Satellite Imagery (2017)

LINZ / National Imagery

Licence 7648 819 Added 22 Feb 2018

About Metadata Tiles Table Analytics History Services Comments (0)

This dataset provides a seamless cloud-free 10m resolution satellite imagery layer of the New Zealand mainland and offshore islands.

The imagery was captured by the European Space Agency Sentinel-2 satellites between December 2016 - December 2017.

We want your feedback

Data has been made available by LINZ on a pilot basis to help LINZ assess the value of ongoing release of satellite imagery.

Use the data, then send us your feedback

Currency

This data will be updated once a year, during the term of the 2-year pilot.

Technical specifications

It comprises 450 x ortho-rectified RGB GeoTIFF images in NZTM projection, tiled into the LINZ Standard 1:50,000 tile layout.

- Satellite sensors: ESA Sentinel-2A and Sentinel-2B
- Acquisition dates: December 2016 - December 2017
- Spectral resolution: R, G, B
- Spatial resolution: 10 meters
- Radiometric resolution: 8-bits (downsampled from 12-bits)

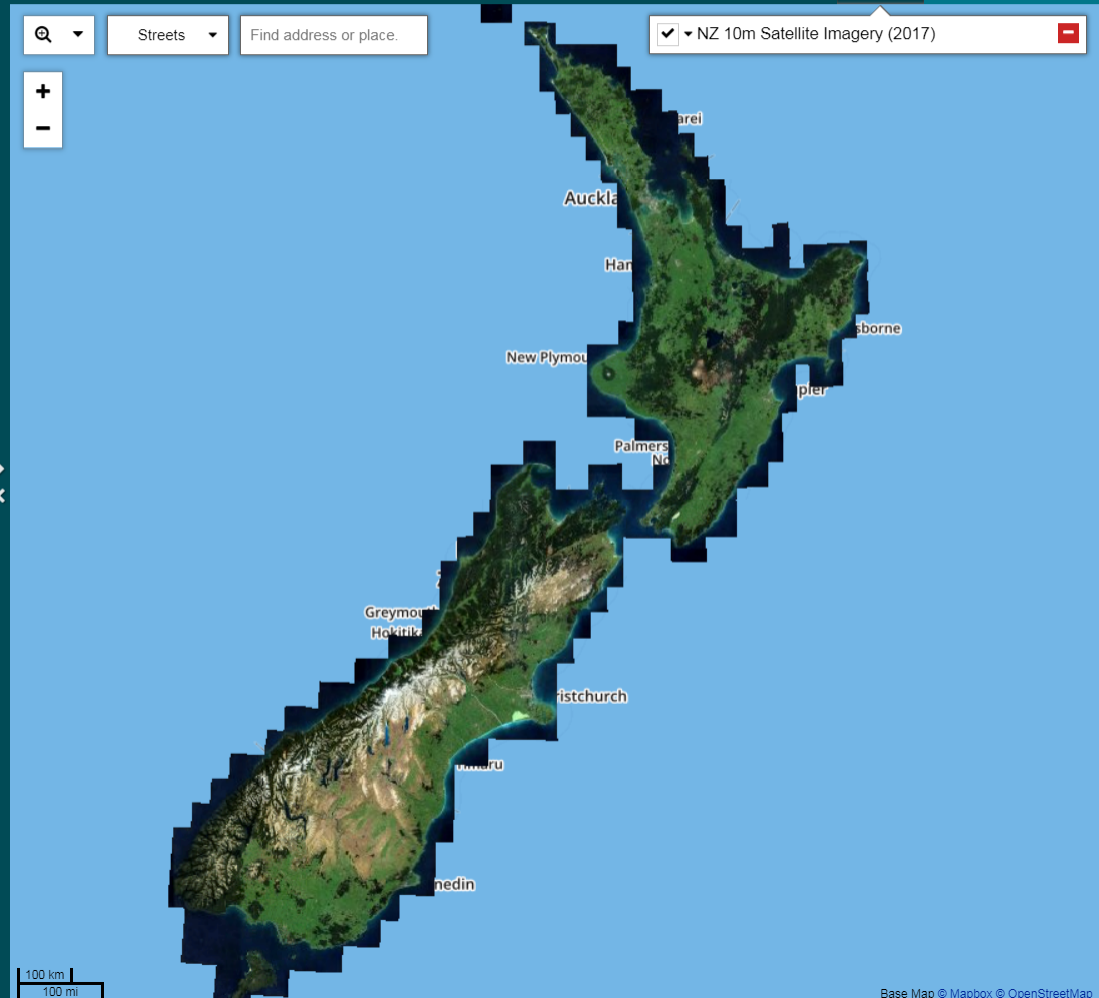
This is a visual product only. The data has been downsampled from 12-bits to 8-bits, and the original values of the images have been modified for visualisation purposes.

If you require the 12-bit imagery (R, G, B, NIR bands), send your request to eo@linz.govt.nz

License

Information

Category	Aerial Photos
Tags	New Zealand
Regions	New Zealand
Metadata	ISO 19115/19139, Dublin Core



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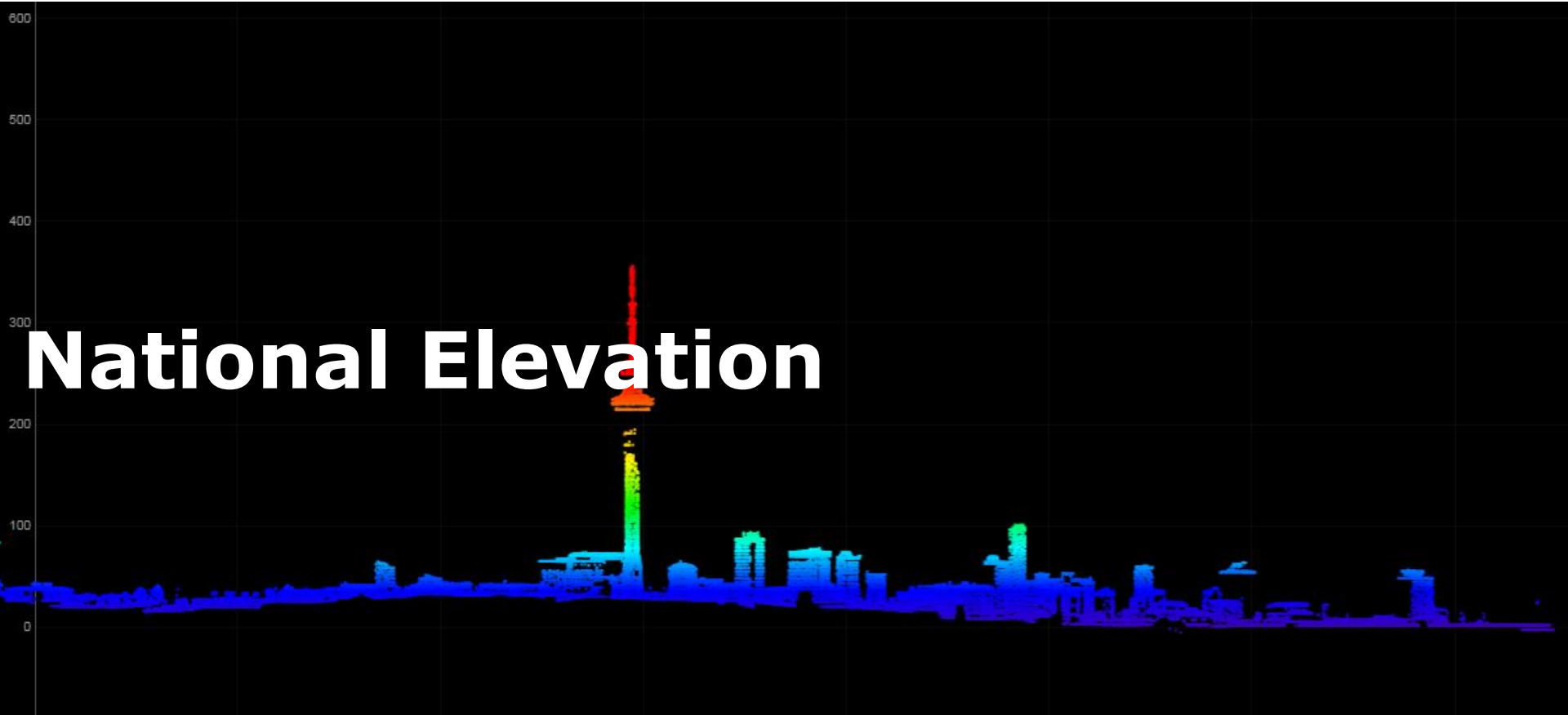
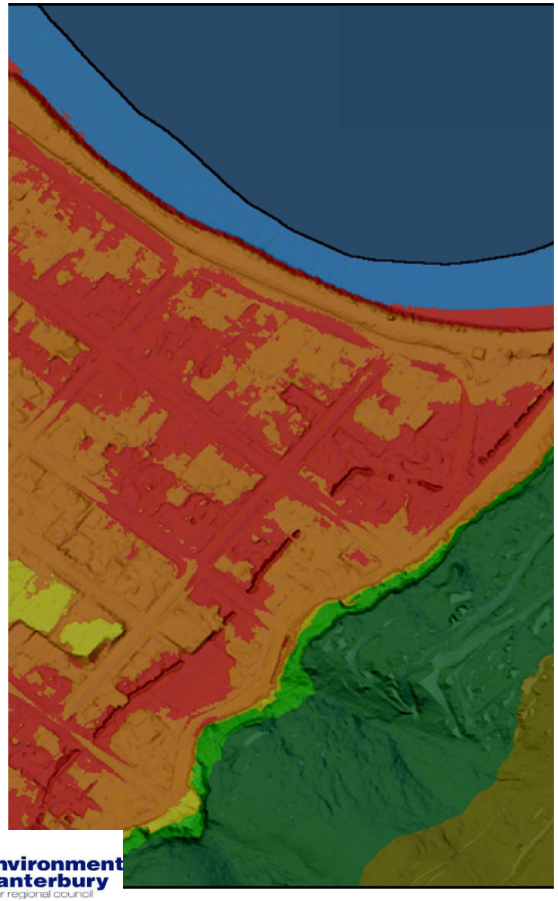
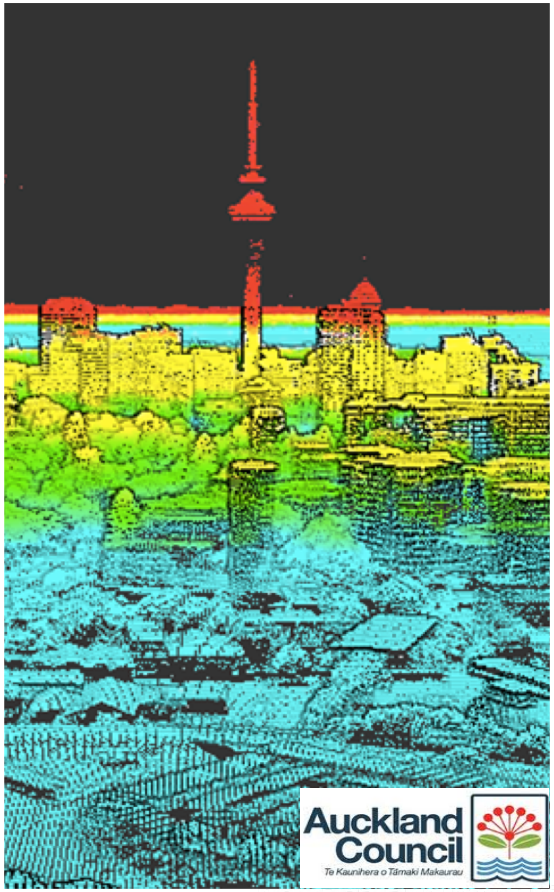


National Elevation

LiDAR based elevation data products





Environment Canterbury
Your regional council

Digital surface model

Land Information New Zealand
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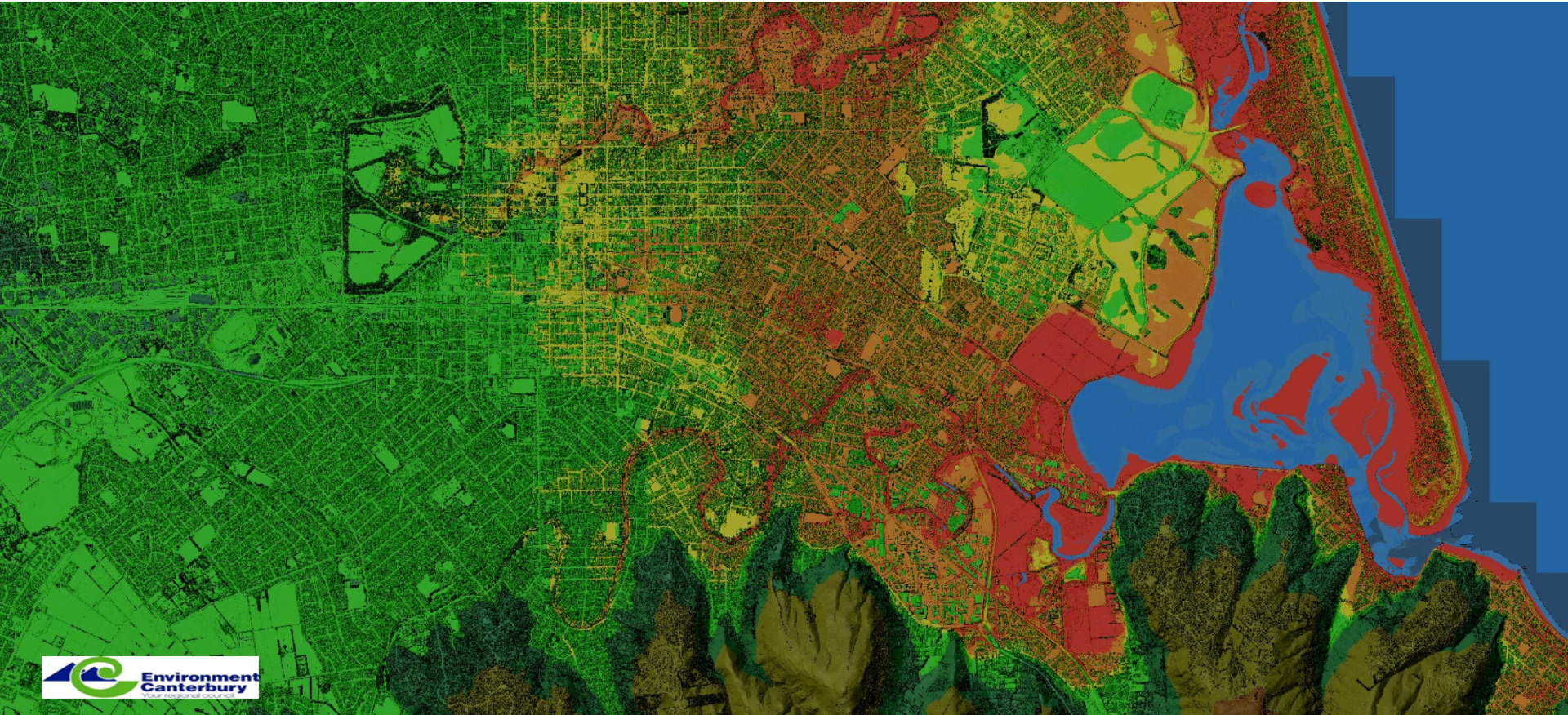

Bare earth DEM

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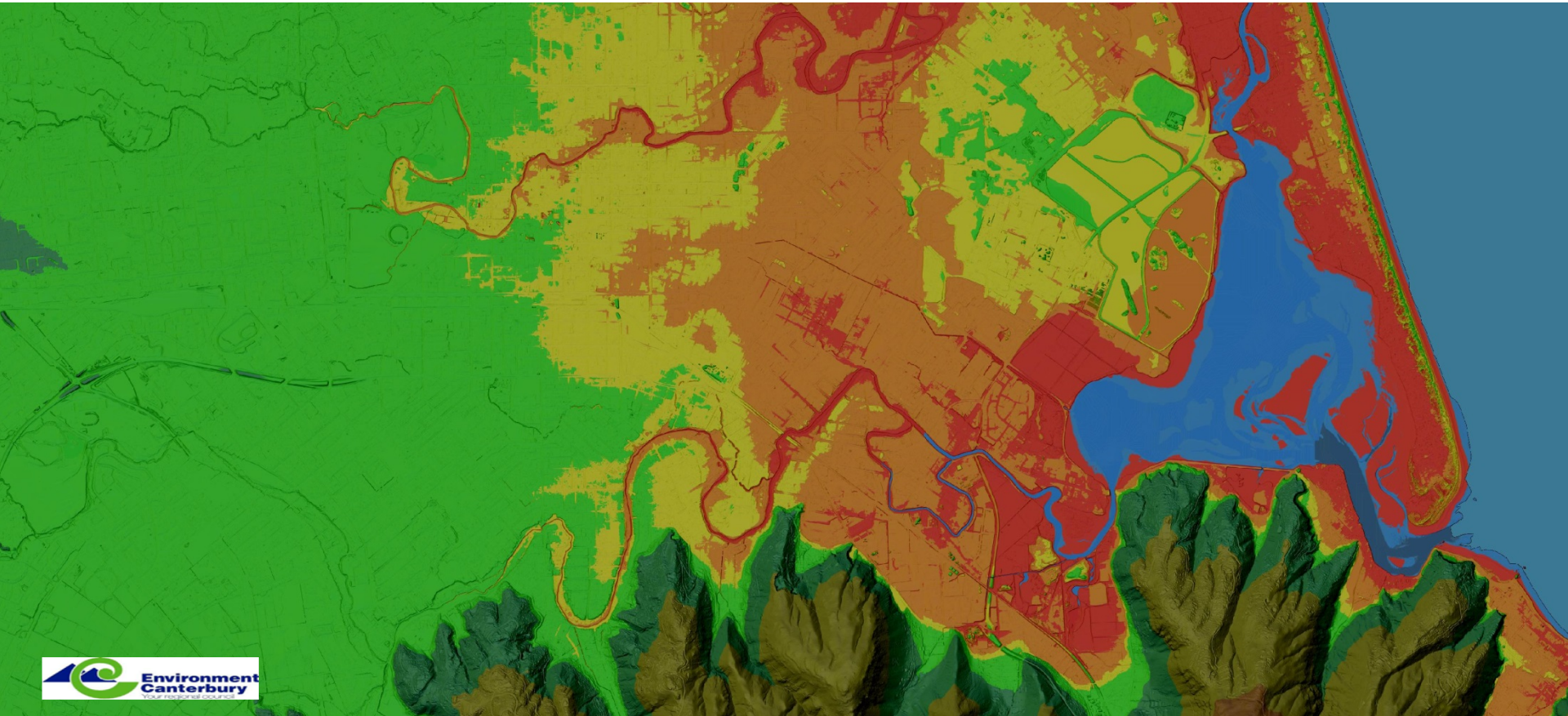
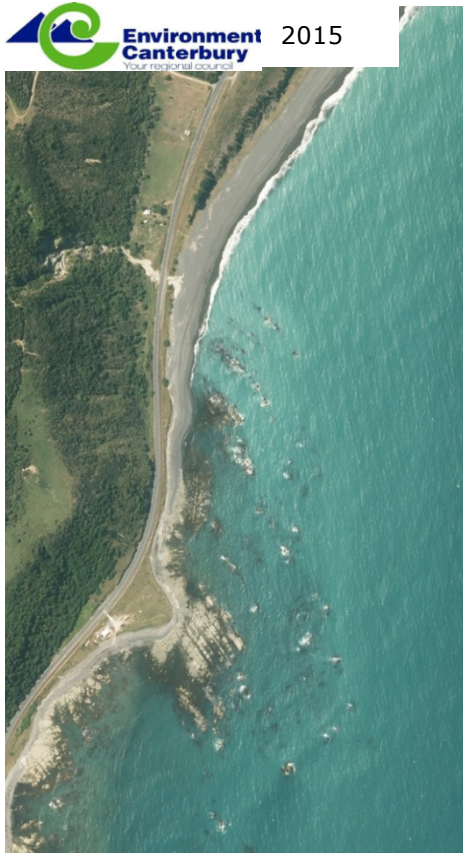
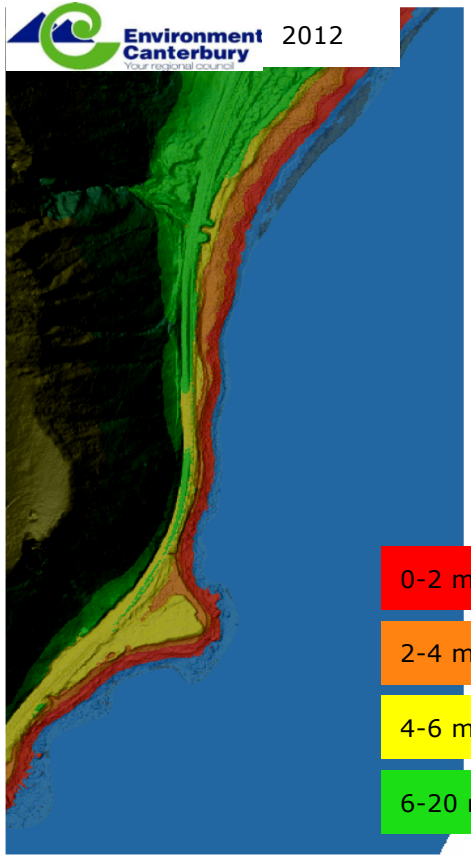
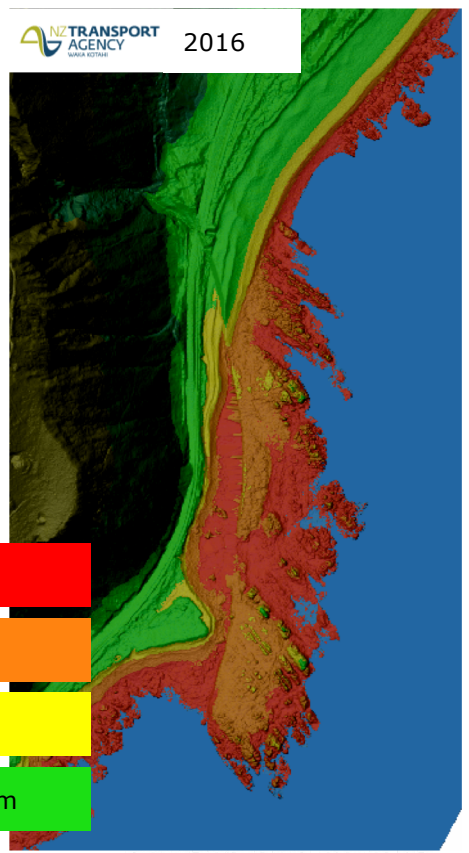


Environment Canterbury
Your regional council

Kaikoura







0-2 m

2-4 m

4-6 m

6-20 m

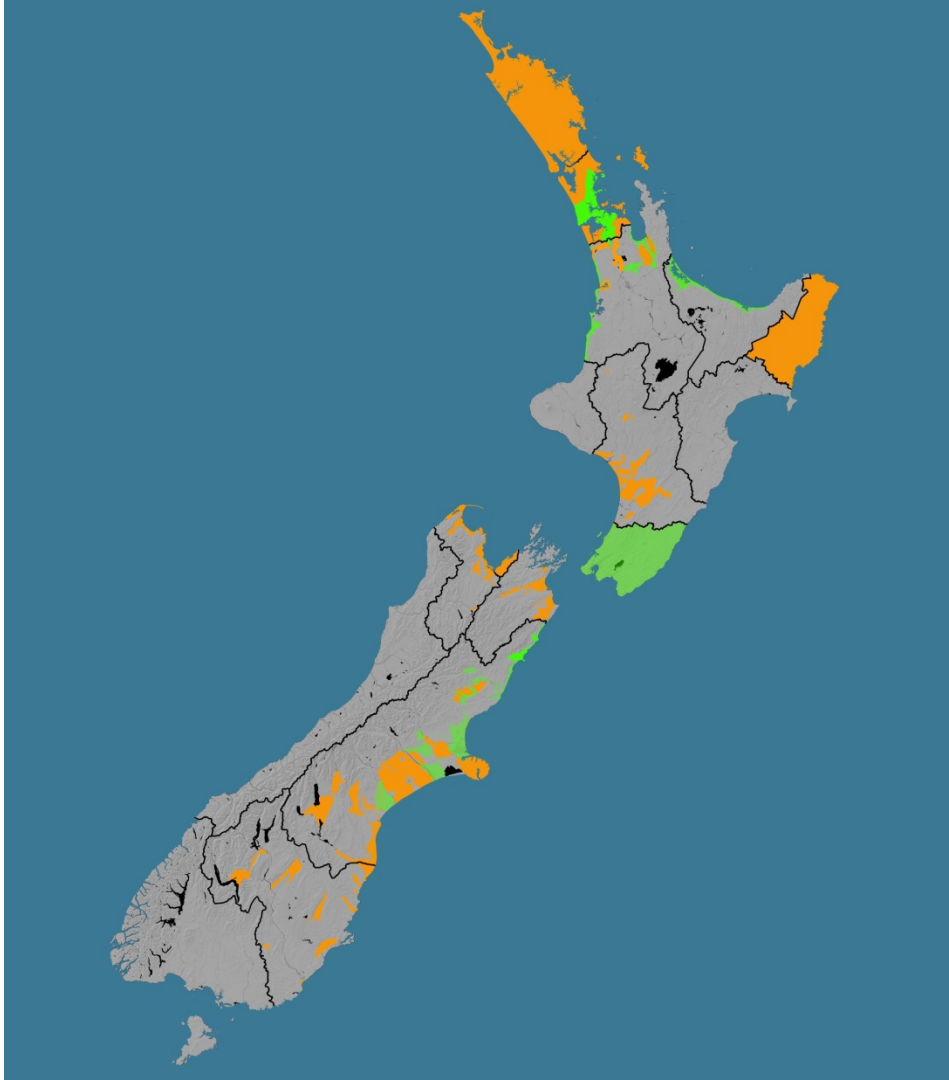
LiDAR Coverage

LDS Now

– **16,000 km²**

In Progress

– **20,000 km²**



DATA TYPE
All 57
Layers 55
Sets 2
CATEGORY
GROUP
REGION

57 results for 'dem'

Wellington LiDAR 1m DEM (2013)
LINZ / National Elevation
Licence | 7657 | 1124 | Added 06 Jun 2017

Canterbury - Rangiora LiDAR 1m DEM (2014)
LINZ / National Elevation
Licence | 1441 | 125 | Added 10 Jan 2017

Canterbury - Kaikoura LiDAR 1m DEM (2012)
LINZ / National Elevation
Licence | 1436 | 121 | Added 04 Jan 2017

Canterbury - Timaru Rivers LiDAR 1m DEM (2014)
LINZ / National Elevation
Licence | 1155 | 68 | Added 10 Jan 2017

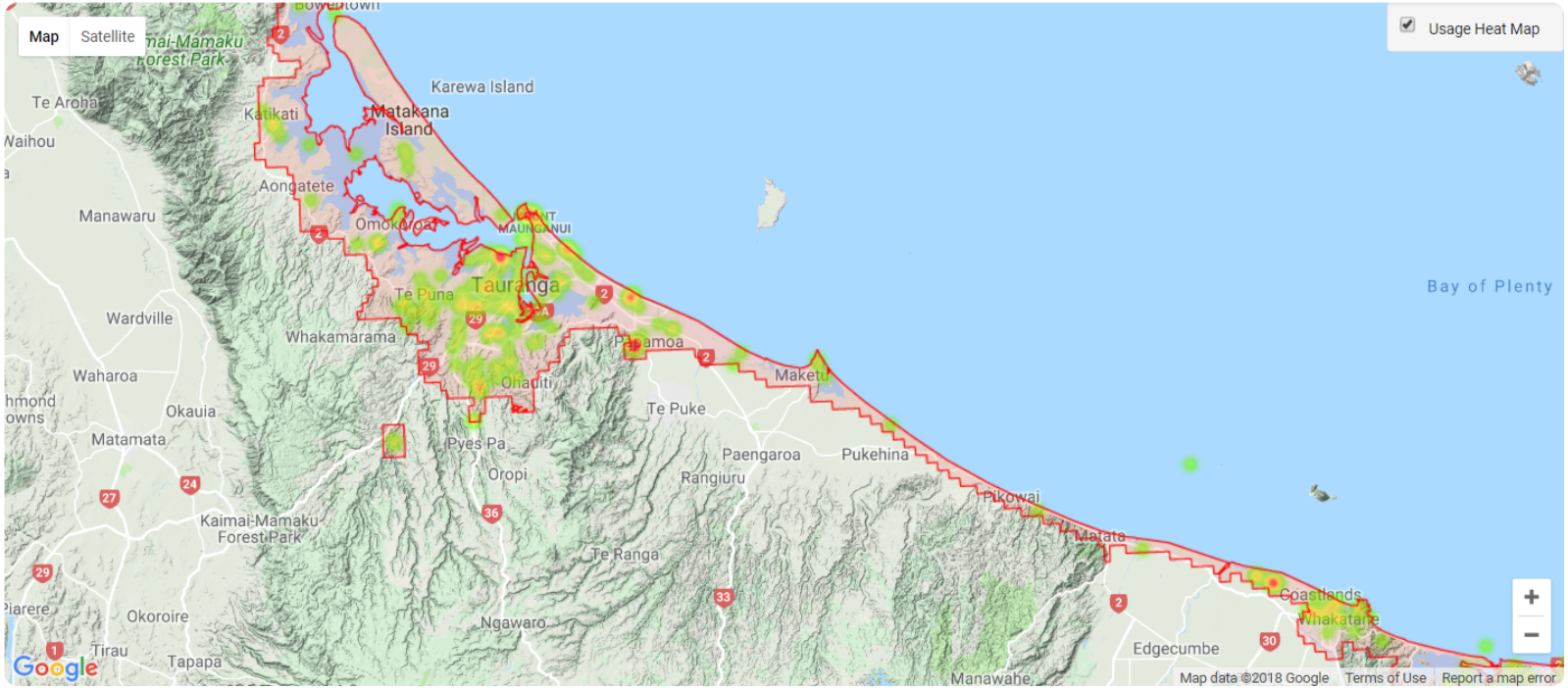
Canterbury - Hurunui Rivers LiDAR 1m DEM (2013)
LINZ / National Elevation
Licence | 1187 | 71 | Added 09 Mar 2017

Canterbury - Amberley LiDAR 1m DEM

Streets
Find address or place.
Whangarei
Auckland
Hamilton
Gisborne
New Plymouth
Napier
Palmerston North
Nelson
Blenheim
New Zealand
Greymouth
Hokitika
Christchurch
Ashburton
Timaru
Queenstown
Oamaru
Dunedin
Invercargill
100 km
100 mi

Dataset Extent in KMZ format: Download

Dataset Spatial Bounds: North: -37.3869576357895° South: -38.0514180072127° East: 177.442201467822° West: 175.902493456046°



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Historic Imagery

- 12 of 16 regions being scanned in partnership with the regions
- 400,000+ scanned negatives
  - Completed - Auckland, BOP and Gisborne
- 100+ Terabytes of data
- Looking at demand for old NZAM archive ~150,000 negatives

RETROLENS
Historical Image Resource

ableyhelp

Support

Satellite

Napier
Bluff Hill
Napier South
Marewa
Onekawa
Tamatea
Te Awa

Land Information New Zealand, Eagle Technology

powered by esri

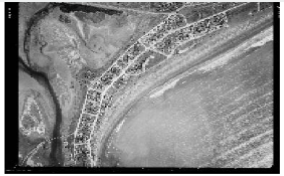
Enter your location here

1926 2018

Auto refresh photos from map.

Place point on the map.

227 images found add all | remove all | download(0)


28/09/1950
add


28/09/1950
add


28/09/1950
add


28/09/1950
add


28/09/1950
add

Developer Disclaimer

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Hydrography

- Realising the value of marine geospatial data - not only for safety of navigation but for a thriving blue economy – which includes sustainability of the marine environment
- working collaboratively / partnering with others in data collection
- collect once , use many times

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Resilience

Raja Noman

Key Datasets for Resilience & Climate Change

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Address
Buildings
Property
Population

Road Network
Rail Network

Aerial Photography
Topographic Map
Elevation
Coastline

River Network
Water Catchments

High-value geographic and property information

Resilience and climate change

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Positioning

Modernising height data – NZVD2016

- NZVD2016 provides a nationally consistent height surface.
- NZVD2016 supersedes traditional sea level datums.
- NZVD2016 is available in ERSI products .
- NZVD2016 is GPS/GNSS friendly.

Nelson City and Tasman District example

- Two independent height datums
- One building site within Nelson had services supplied via Tasman
- Adopted NZVD2016 in 2017
- NZVD2016 is now the standard for all new height data

Wide Area Cadastral Adjustments

Three year programme to realign the survey accurate cadastral mapping dataset in urban areas

Priority areas

- Where there are large discrepancies between geodetic and cadastral coordinates
- Areas where significant development has occurred
- Areas that have a high seismic risk

Some key benefits

- Better support for automation of cadastral datasets
- Efficiencies for surveyors in undertaking and lodging cadastral surveys
- Accurate coordinates in place before a natural disaster so ground movement assessment can be done
- Improved accuracy relative to the other high precision datasets e.g. utilitity datasets

SBAS Improved Positioning Accuracy for NZ

- SBAS technology is being evaluated across Australasia
- Improves consumer GNSS accuracy to sub-metre
- High integrity enables use in safety critical applications
- LINZ and MoT working on business case for operational service

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Questions?