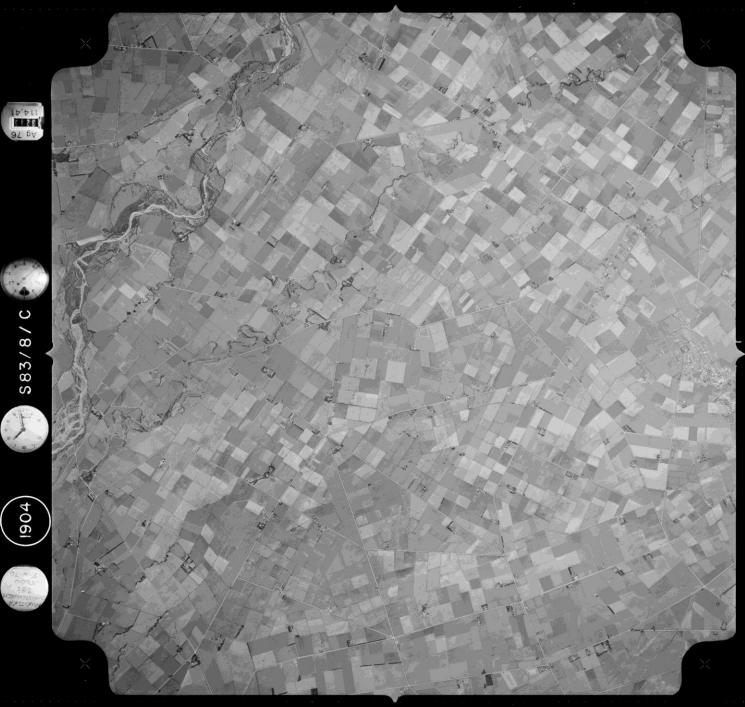


Background

The Crown archive contains over 500,000 photos on film from nearly 7,000 aerial surveys captured from as early as the 1930's

But there's a problem:

- Paper & film copies
- Hard to access and share
- Film suffers from decay



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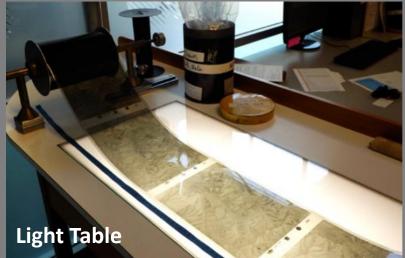
The Solution?

It was decided in 2014 to undertake a project to scan/digitise the archive.

The project began with three partner regions (Canterbury, Waikato and Bay of Plenty). Council partners continue to join the project progressively from across NZ as different areas became aware of the project and have funding to be able to join the initiative.









RETROLENS Historical Image Resource

Retrolens.nz

RETROLENS

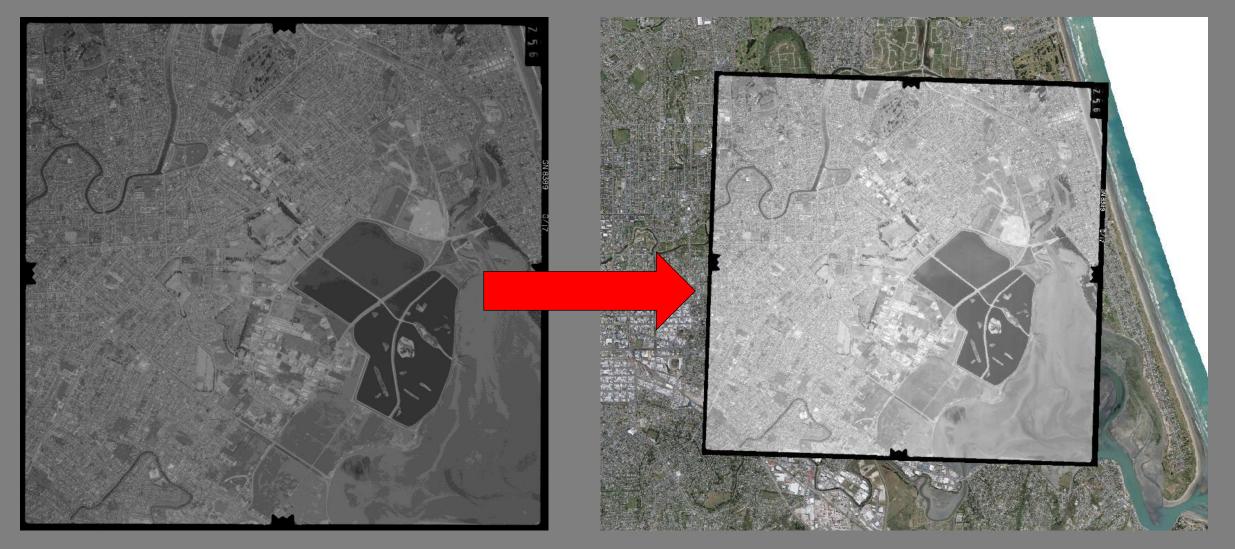
Historical Image Resource

Enter your location here

Not sure how to use Retrolens? | Explore Map

This site is made available through the work of the Local Government Geospatial Alliance (LGGA) and Abley. The images on the site have been scanned as a result of a joint project with Land Information New Zealand. Read more...

Taking it Further



2021 – 2025 In fill missed areas

2020 – Waimate, Mackenzie and Waitaki

2019 – Ashburton

2018 – Hurunui and Kaikoura

2017 – Timaru

2016 – Kaikoura and Waimakariri

2015 – Selwyn

Roadmap

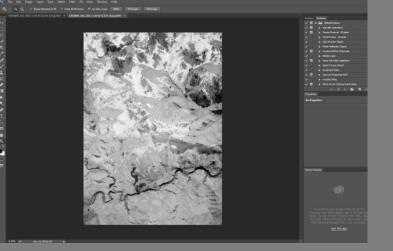
2014 – Christchurch

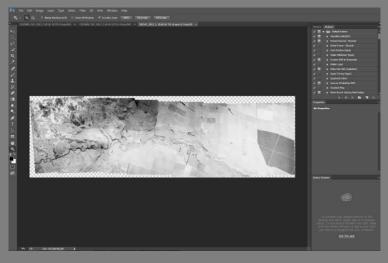
Raw Imagery

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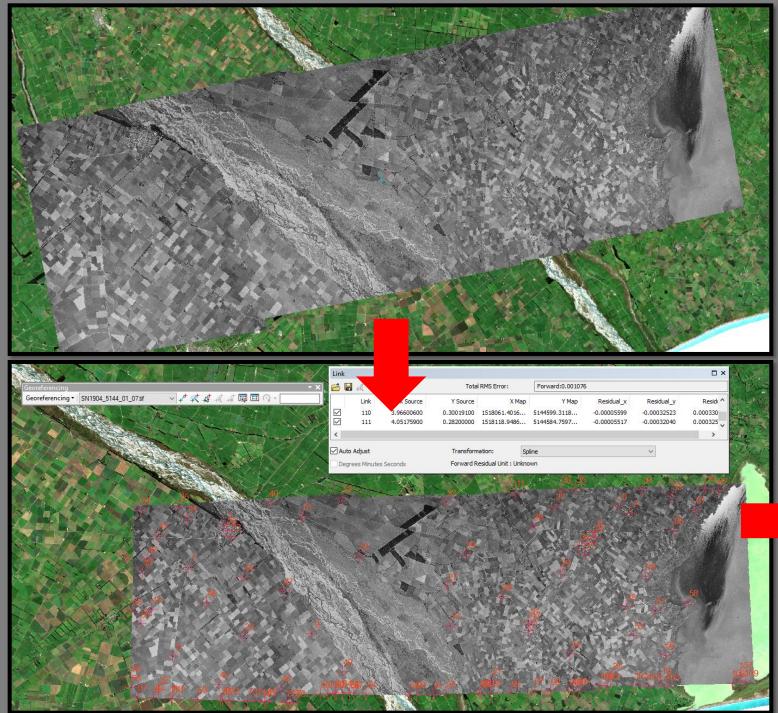
Batch cropping and rotating

Photo merging

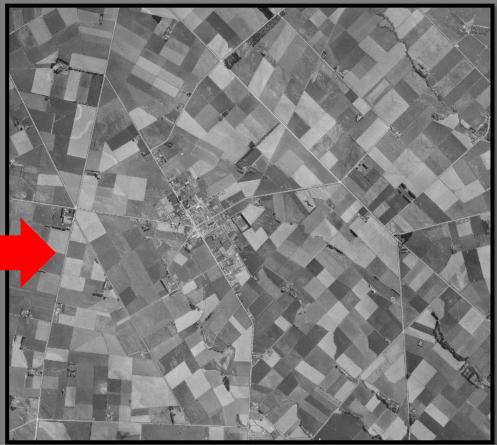




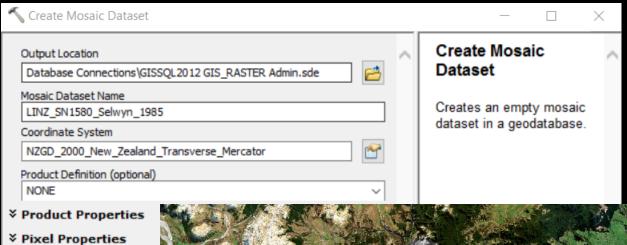
Photoshop



Georeferencing



Mosaicking



OK



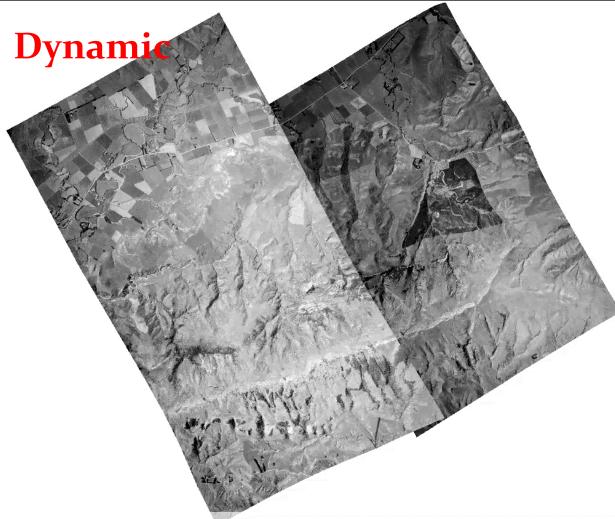
Contents Preview Description

Name

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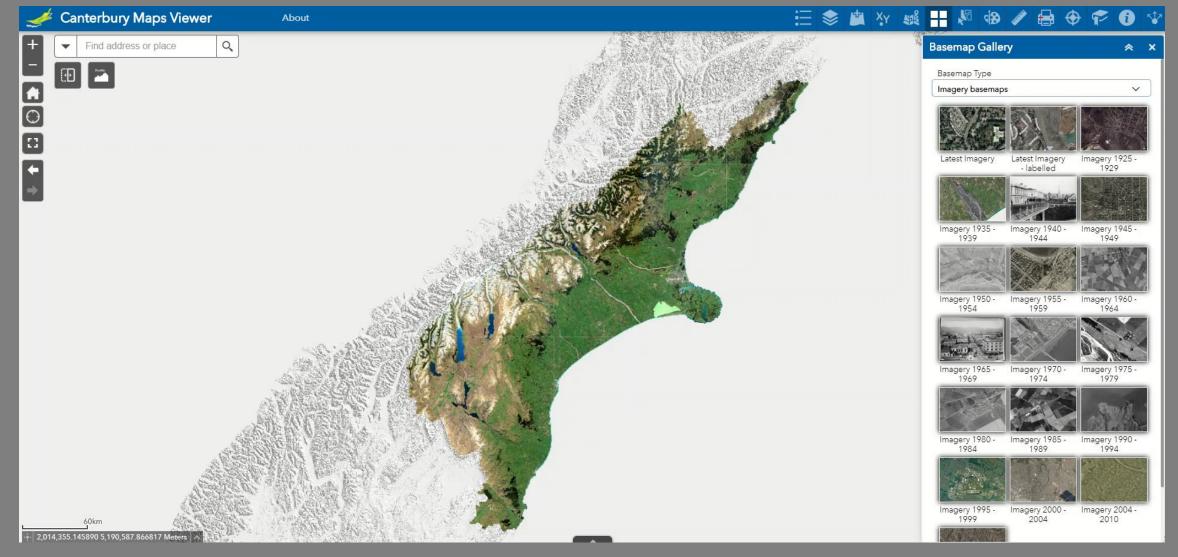
Type Mosaic Dataset Mosaic Dataset

Caching

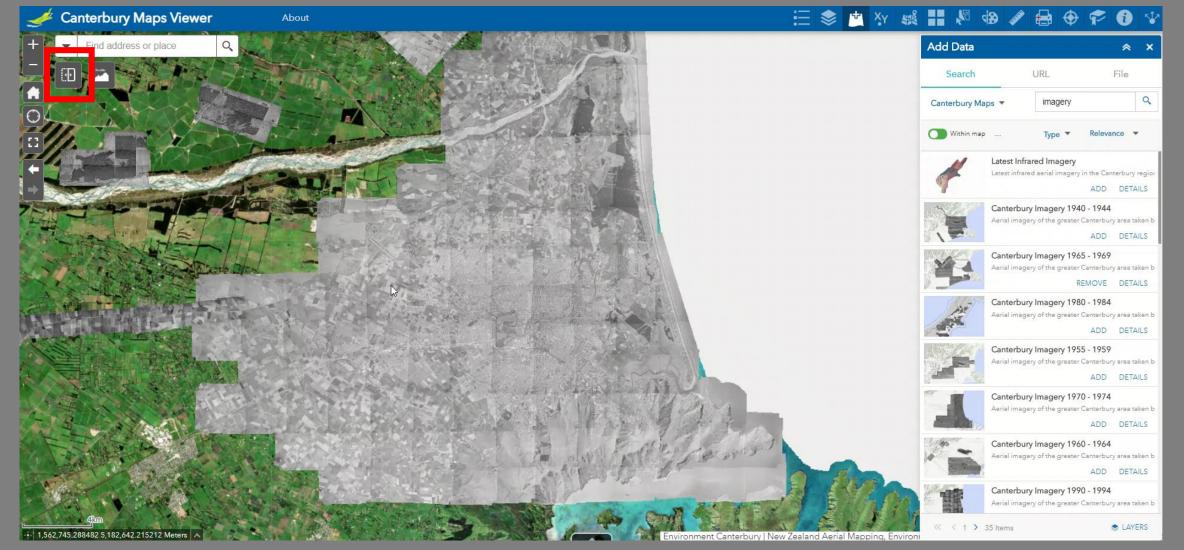




Web Applications Basemap Gallery



Web Applications Swipe Tool



How Environment Canterbury Uses it

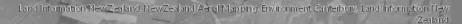
Environment Canterbury Regional Council *Kaunihera Taiao ki Waitaha*

Hazardous Activities and Industries List (HAIL)





1959









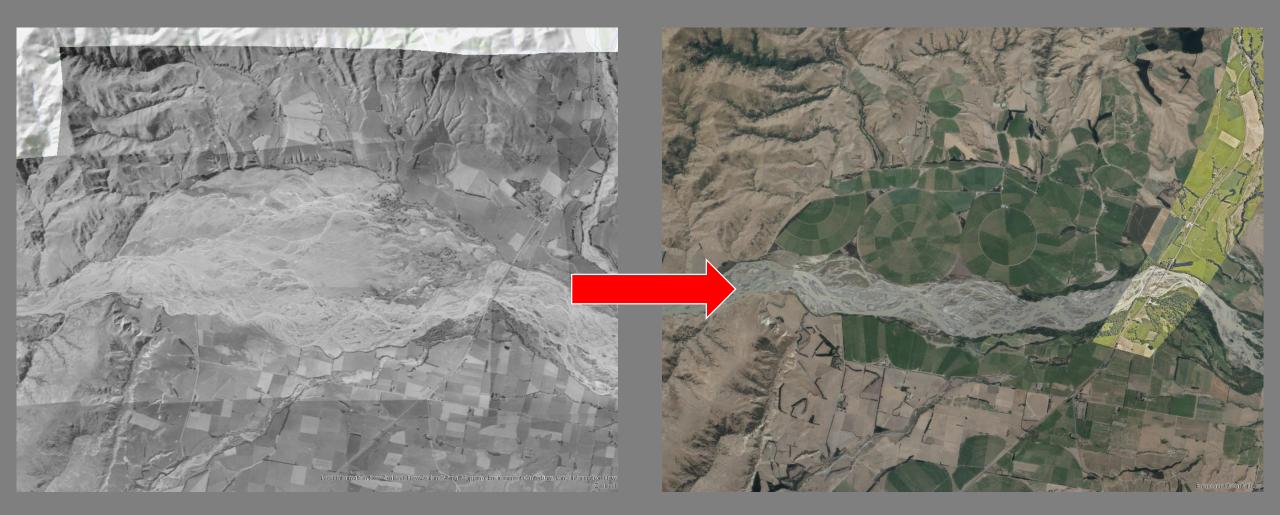








onment Canterbury

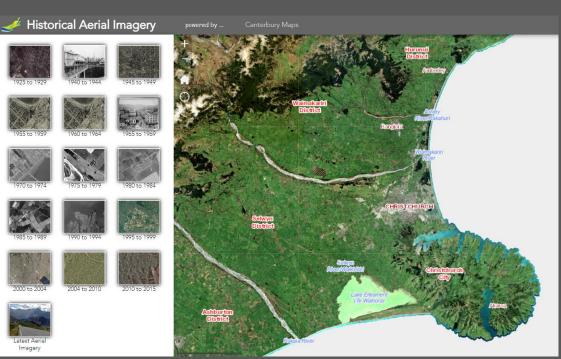




canterburymaps.govt.nz

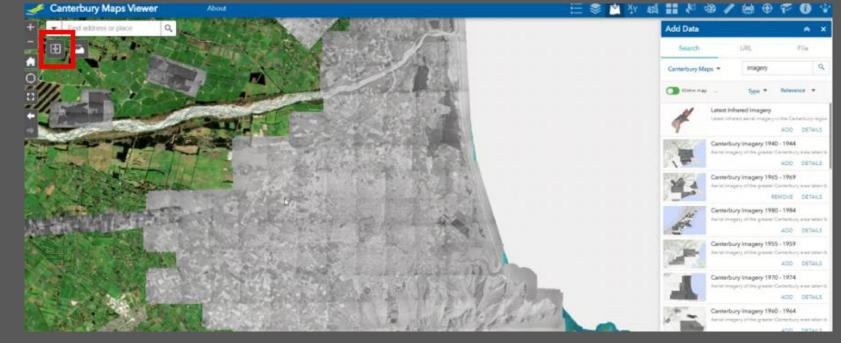
Canterbury Maps

- Access to cached services via our public servers
- Map Viewer
- Customised maps specifically for historic imagery



Services:

- <u>Imagery/Canterbury_Imagery_1925_1929</u> (MapServer)
- <u>Imagery/Canterbury_Imagery_1935_1939</u> (MapServer)
- <u>Imagery/Canterbury_Imagery_1940_1944</u> (MapServer)
- <u>Imagery/Canterbury_Imagery_1945_1949</u> (MapServer)
- <u>Imagery/Canterbury_Imagery_1950_1954</u> (MapServer)
- <u>Imagery/Canterbury_Imagery_1955_1959</u> (MapServer)
- <u>Imagery/Canterbury_Imagery_1960_1964</u> (MapServer)
- <u>Imagery/Canterbury_Imagery_1965_1969</u> (MapServer)
- Imagery/Canterbury_Imagery_1970_1974 (MapServer)
- <u>Imagery/Canterbury_Imagery_1975_1979</u> (MapServer)
- <u>Imagery/Canterbury_Imagery_1980_1984</u> (MapServer)
- Imagery/Canterbury_Imagery_1985_1989 (MapServer)
- <u>Imagery/Canterbury_Imagery_1990_1994</u> (MapServer)
- <u>Imagery/Canterbury_Imagery_1995_1999</u> (MapServer)
- <u>Imagery/Canterbury_Imagery_2000_2004</u> (MapServer)
- <u>Imagery/Canterbury_Imagery_2010_2015</u> (MapServer)



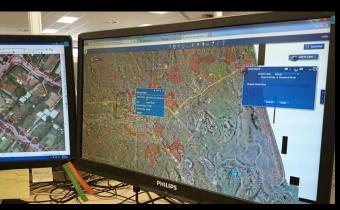
Canterbury Maps – User Stories

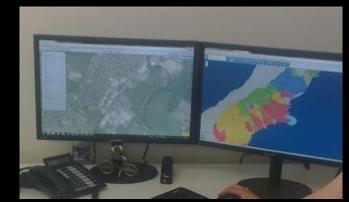
Aurecon – "We also make use of the **historical aerial photography** web service to show site usage through time, which is particularly useful for our land development team and geotechnical engineers, as well as our clients when assessing the suitability of a site for future development."

Eliot Sinclair – "Historical aerial photographs shown on the GIS are also used to determine site history which is useful for our civil and geotechnical engineers, and for the environmental engineers when assessing any risk of contamination."

Davis Ogilvie – "The Structural team uses the Canterbury Maps website to look at the historical use of a site, when it was it was first developed and when alterations were made to the property."









The Future

- Full coverage of Canterbury
- Other regions build upon this so we can get national coverage
- 3D Imagery
- Historic building footprints?
- Machine learning?





Any Questions?