

Capturing NZ at Scale

Aerial Survey's Imagery & LiDAR Databases, PGF LiDAR Datasets and 3D Mesh Models

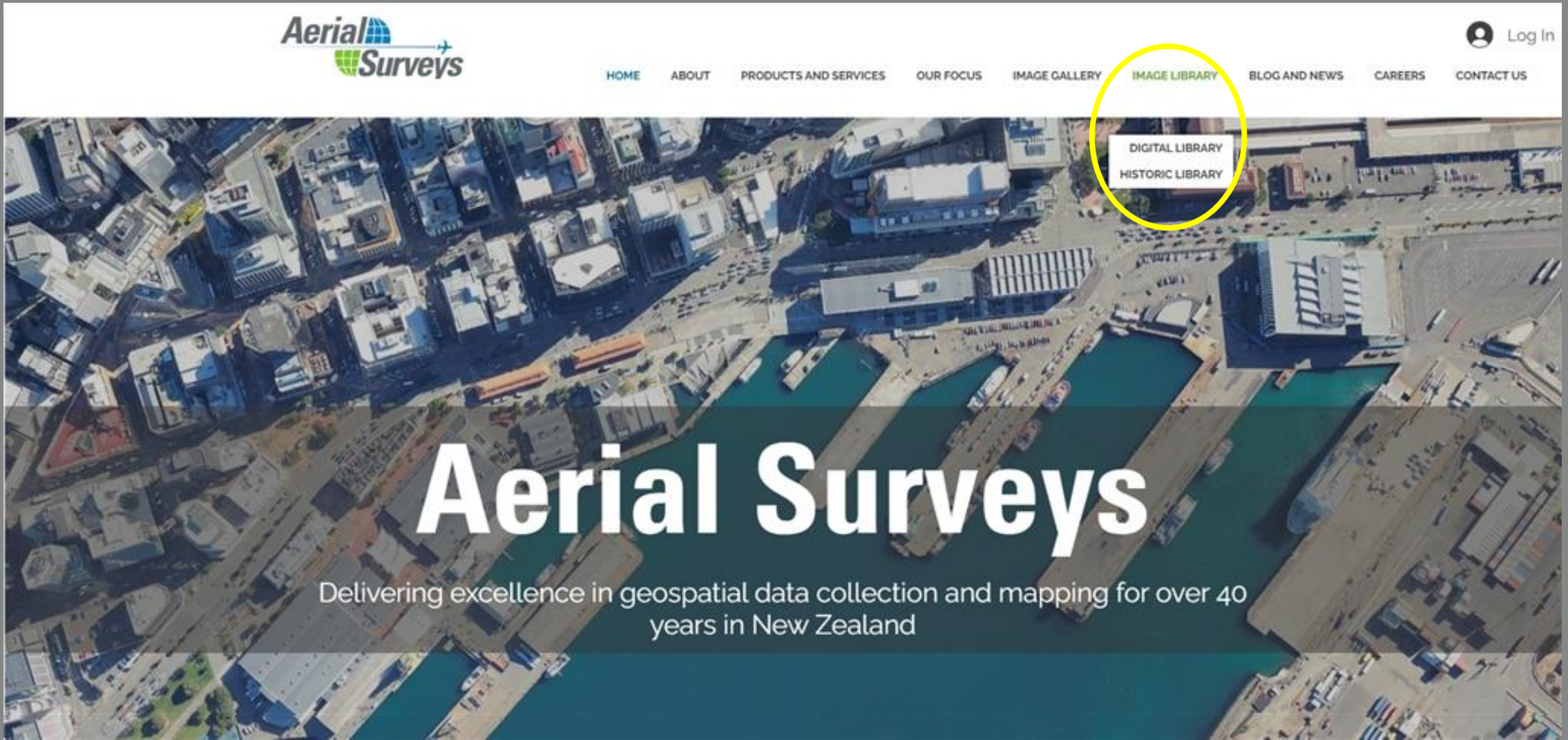
Steve Smith

Business Development Manager

Contents

- Aerial Surveys Limited Updated Web Site:
 - <https://www.aerialsurveys.co.nz>
- Digital Imagery & LiDAR Libraries
- Historic (Film Based) Imagery:
 - Historic Film Library
 - Scanning Service
- ASL Portal
 - Current & Upcoming capture, Process Stage & Recent Product Supplies
 - ASL PGF LiDAR Project Status
 - Disaster Response
- New Zealand 3D Mesh Base Map

Aerial Surveys Web Site



Digital Imagery Library

2010 - 2023


Digital Imagery Library


- Map Display by Year - Slidebar



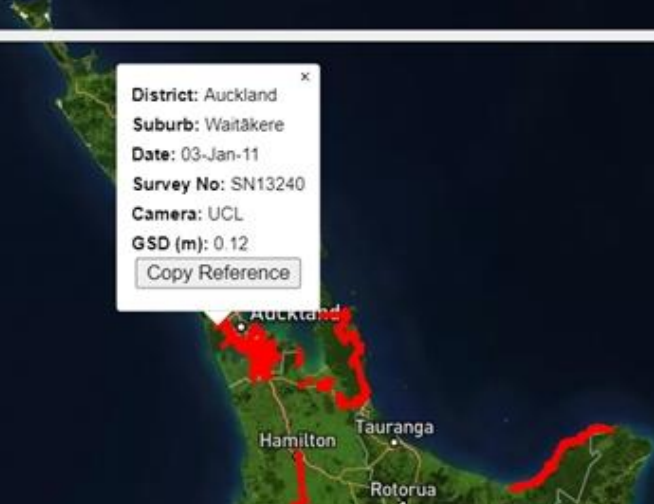
Digital Imagery Library

- Imagery Information – Click on Area of Interest
- Imagery Request Form – Contact ASL for Detailed Information & Pricing

| | | | |
|--|--|--|--|
| First Name | Last Name | Email * | Phone (Optional) |
| <input type="text" value="First Name"/> | <input type="text" value="Last Name"/> | <input type="text" value="Email"/> | <input type="text" value="Phone"/> |
| UniquelD's or Short Description with address and year | | <input type="checkbox"/> I'm not a robot  | <input type="button" value="Request"/> |
| <input type="text" value="Type your message here"/> | | | |

Year: 

Selected Year: 2011



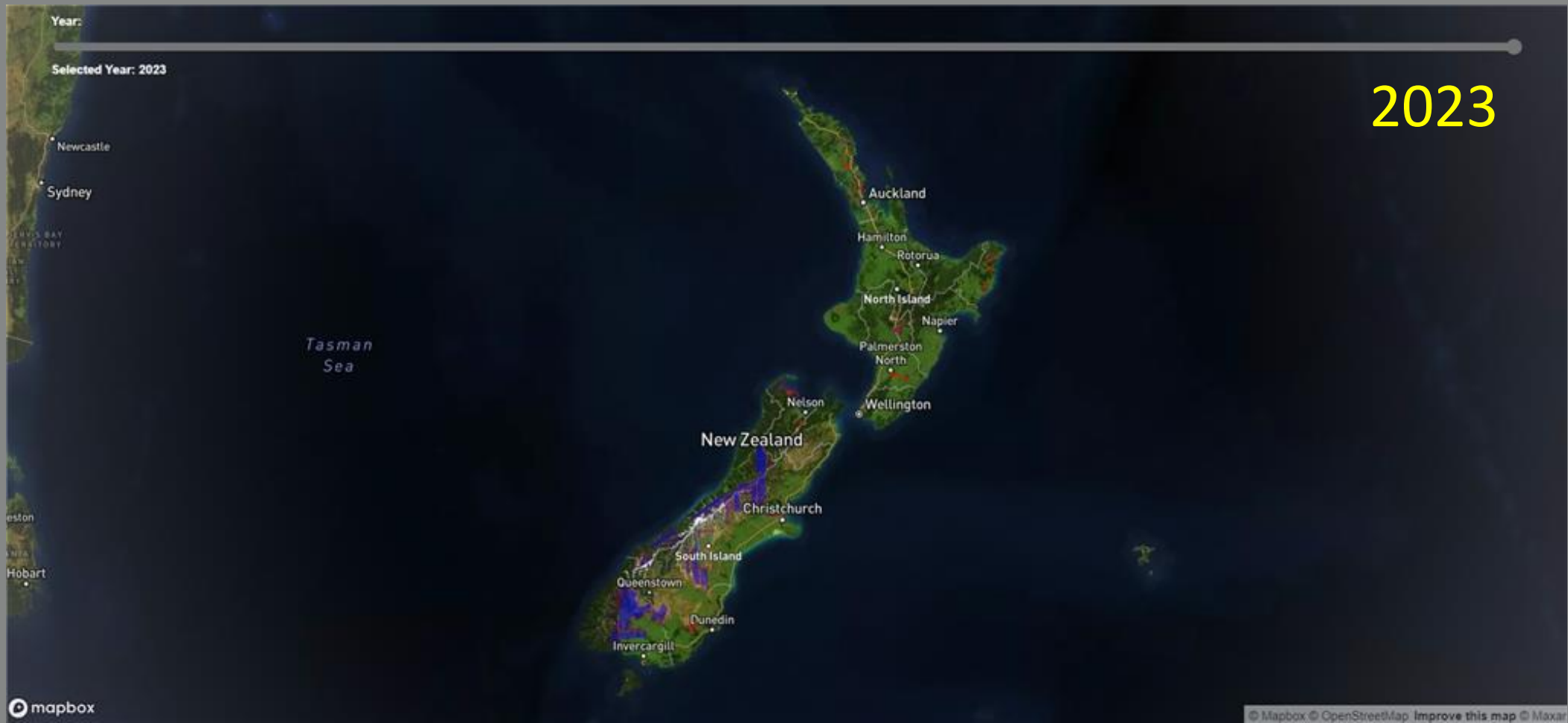
District: Auckland
Suburb: Waitākere
Date: 03-Jan-11
Survey No: SN13240
Camera: UCL
GSD (m): 0.12

LiDAR Library

2007 - 2023

LiDAR Library

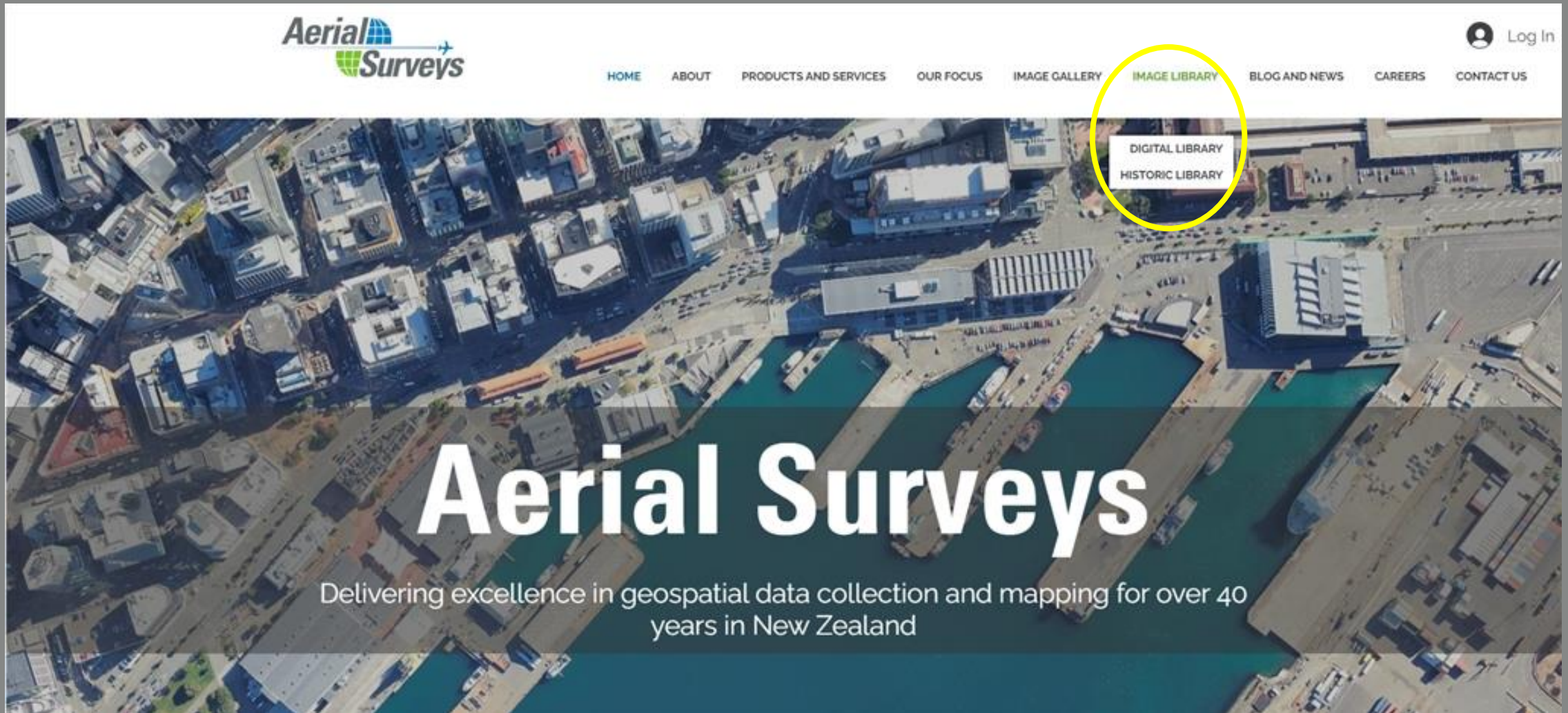
- LiDAR Library will be Added to Web Site Soon



Historic (Film) Library

1943 - 2010

Historic Film Library



The screenshot shows the Aerial Surveys website homepage. At the top left is the Aerial Surveys logo. The navigation menu includes: HOME, ABOUT, PRODUCTS AND SERVICES, OUR FOCUS, IMAGE GALLERY, IMAGE LIBRARY (highlighted with a yellow circle), BLOG AND NEWS, CAREERS, and CONTACT US. A 'Log In' button is in the top right. A dropdown menu for 'IMAGE LIBRARY' is open, showing 'DIGITAL LIBRARY' and 'HISTORIC LIBRARY'. The main content area features an aerial photograph of a city harbor with the text 'Aerial Surveys' and the tagline 'Delivering excellence in geospatial data collection and mapping for over 40 years in New Zealand'.

Aerial Surveys


Delivering excellence in geospatial data collection and mapping for over 40 years in New Zealand

Historic Film Library

- Text Based Search
- Filter by:
 - Keywords
 - NZ Island
 - Region
 - Start & End Years – Sliderbar
- Capture Information:
 - Date of Capture
 - No. of Frames
 - Photo Scale
 - B/W or Colour
 - Remarks

Clear Filters

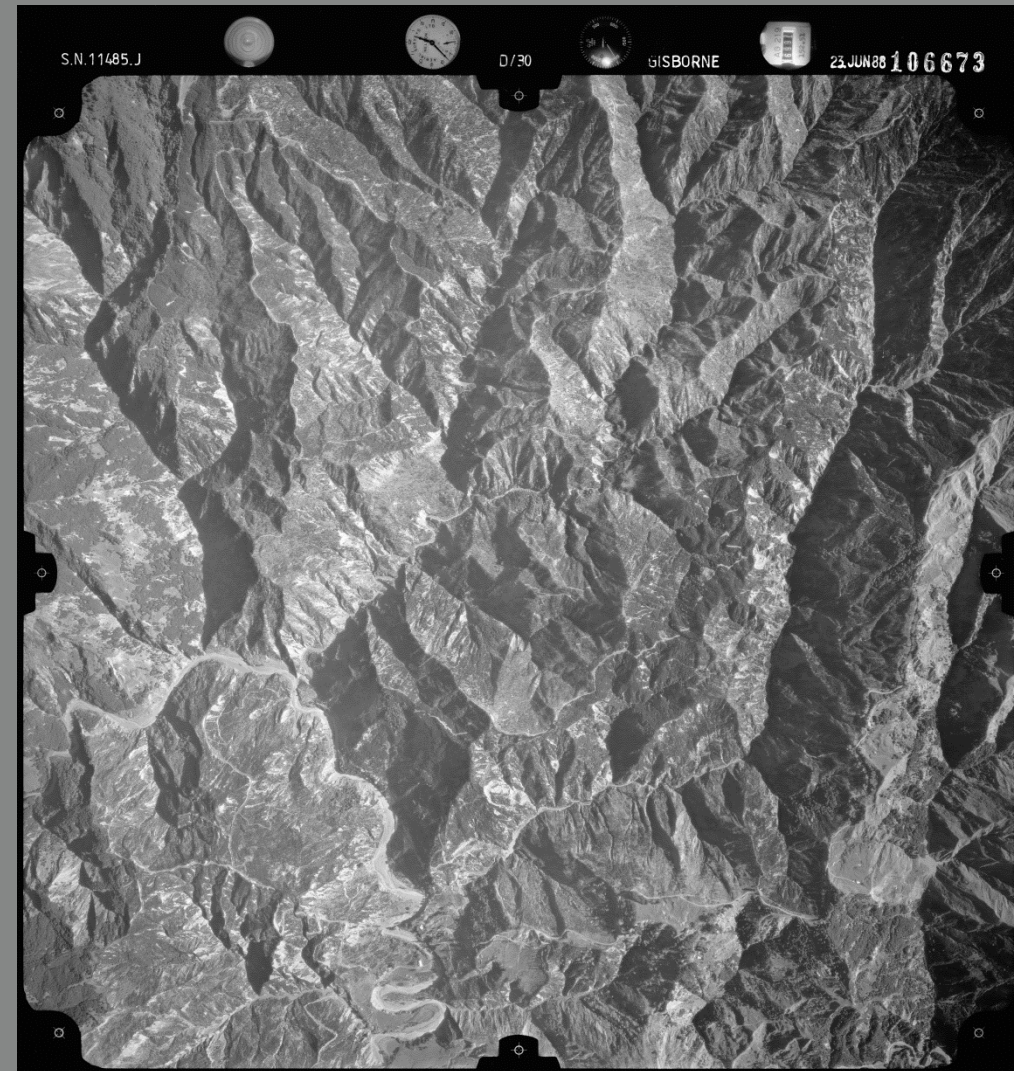
Keyword Search Locality, Remarks, Subject Filter by NZ Island Filter by NZ Region Filter by Year

Keyword Search North Island Select NZ Regi... 

| NZ Island | NZ Region | Region/District | Locality | Year | Month | Num Frames | Scale | Neg Type | Remarks |
|--------------|------------------|-----------------|---------------|------|-------|------------|-------|----------|------------------------|
| North Island | Auckland | Auckland | Avondale | 1949 | 12 | 1 | 6000 | COL-9 | Houses Ho Arec |
| North Island | Auckland | Auckland | Onehunga | 1949 | 12 | 2 | 6000 | COL-9 | Houses, J State Rd. |
| North Island | Auckland | Auckland | Owairaka | 1949 | 12 | 1 | 6000 | COL-9 | Houses, O Arec |
| North Island | Waikato District | Waikato | Lake Karapiro | 1953 | 3 | 1 | | B/W-5 | Lake Kar |
| North Island | Auckland | Auckland | Waikato | 1954 | 10 | 50 | | COL-6 | Flooding, P Arec |
| North Island | Auckland | Auckland | | 1955 | 6 | 2 | | B/W-5 | Shell Tar No.925, H |
| North Island | Auckland | Auckland | Shelly Beach | 1956 | 3 | 5 | | COL-6 | Shelly B Kaipa |

1990s Search Example

| Survey Number | Description | Type | Photoscale | Ortho GSD | Date of Photography | Total frames |
|--------------------|--|--------|----------------------|--------------|---------------------|--------------|
| SN11485 | Gisborne (Cyclone Bola) | B/W | 1:23,500 1:25,000 | 0.35m | 1988 | 1295 |
| SN11569 | Bay of Plenty | B/W | 1:25,000 | 0.35m | 1989 | 189 |
| SN11640 (11622) | Wairarapa | B/W | 1:54,000 | 0.76m | 1989 | 186 |
| SN11940 | Tuwhare Ki Kowarau Tribal Area (Rotorua-Whakatane) | B/W | 1:25,000 | 0.35m | 1992 | 341 |
| SN11978 | WRAPS | B/W | 1:27,500 | 0.4m | 1992/3 | 3032 |
| SN12083 | Northland Coastline | Colour | 1:45,000 | 0.63m | 1993 | 164 |
| SN12106 | Taranaki | Colour | 1:27,500 | 0.4m | 1993/4 | 1001 |
| SN12206 | North ECAN | Colour | 1:27,500 | 0.4m | 1994/5 | 765 |
| SN12208 | Central ECAN | Colour | 1:27,500 | 0.4m | 1994/5 | 1737 |
| SN12210 | South ECAN | Colour | 1:27,500 | 0.4m | 1994/5 | 582 |
| SN12248 | Manawatu/Wanganui | B/W | 1:27,500 | 0.4m | 1996/7 | 2398 |
| SN12324 | Otago Regional | Colour | 1:27,500 | 0.4m | 1996/7 | 3019 |
| SN12482 | Wellington Region | Colour | 1:25,000 | 0.35m | 1997 | 24 |
| SN12207 | ECAN High Country | B/W | 1:50,000 | 0.7m | 1998/9 | 554 |
| SN12209 | ECAN High Country | B/W | 1:50,000 | 0.7m | 1996/1998 | 110 |
| SN12525 | Auckland Region | Colour | 1:54,000 | 0.76m | 1999 | 294 |
| SN12391 | Tasman Region | B/W | 1:27,500 1:50,000 | 0.4m 0.7m | 1996/7/8/20 | 919 |
| SN12077 | Marlborough Sounds | Colour | 1:45,000 | 0.63m | 1993 | 107 |
| SN11622 | Wairarapa Catchment Board | B/W | 1:54,000 | 0.76m | 1989 | 373 |



ASL Scanning Service

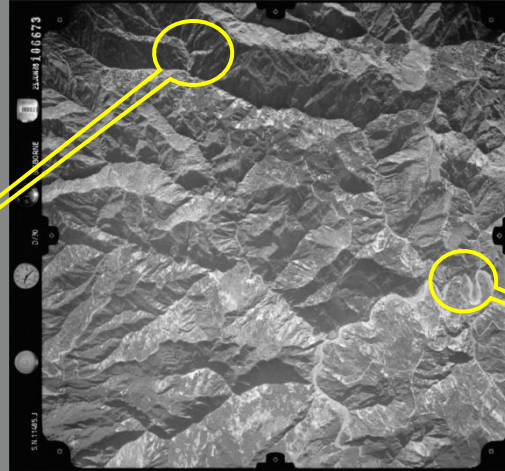
Photogrammetric Scanning Service of Film Based Imagery

Scanning Service

- ASL Purchased 2 x Scanners from LINZ
- Used for Digitising Crown Photography Project
- Service Closed Down Upon Completion
- Essential Service to Remain in NZ
 - ASL Nelson Office



Digital Scan Example



ASL Portal

Recent, Current and Future Projects

ASL Portal



- [HOME](#)
- [ABOUT](#)
- [PRODUCTS AND SERVICES](#)
- [OUR FOCUS](#)
- [IMAGE GALLERY](#)
- [IMAGE LIBRARY](#)
- [BLOG AND NEWS](#)
- [CAREERS](#)
- [CONTACT US](#)



Aerial Surveys

Delivering excellence in geospatial data collection and mapping for over 40 years in New Zealand

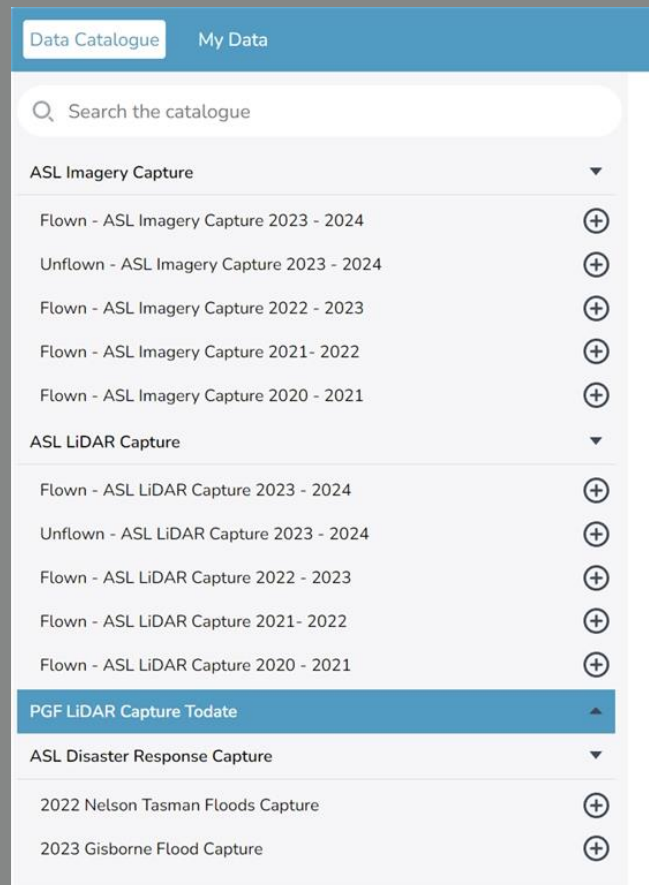
ASL Portal

- Provides Inside View to ASLs Recent, Current & Future Projects
- Client Access to ASL Portal
 - Signed NDA in Place
 - Secure Login with Password
 - Ability to Upload Client AOIs & Request Pricing
 - Request AOI When Available

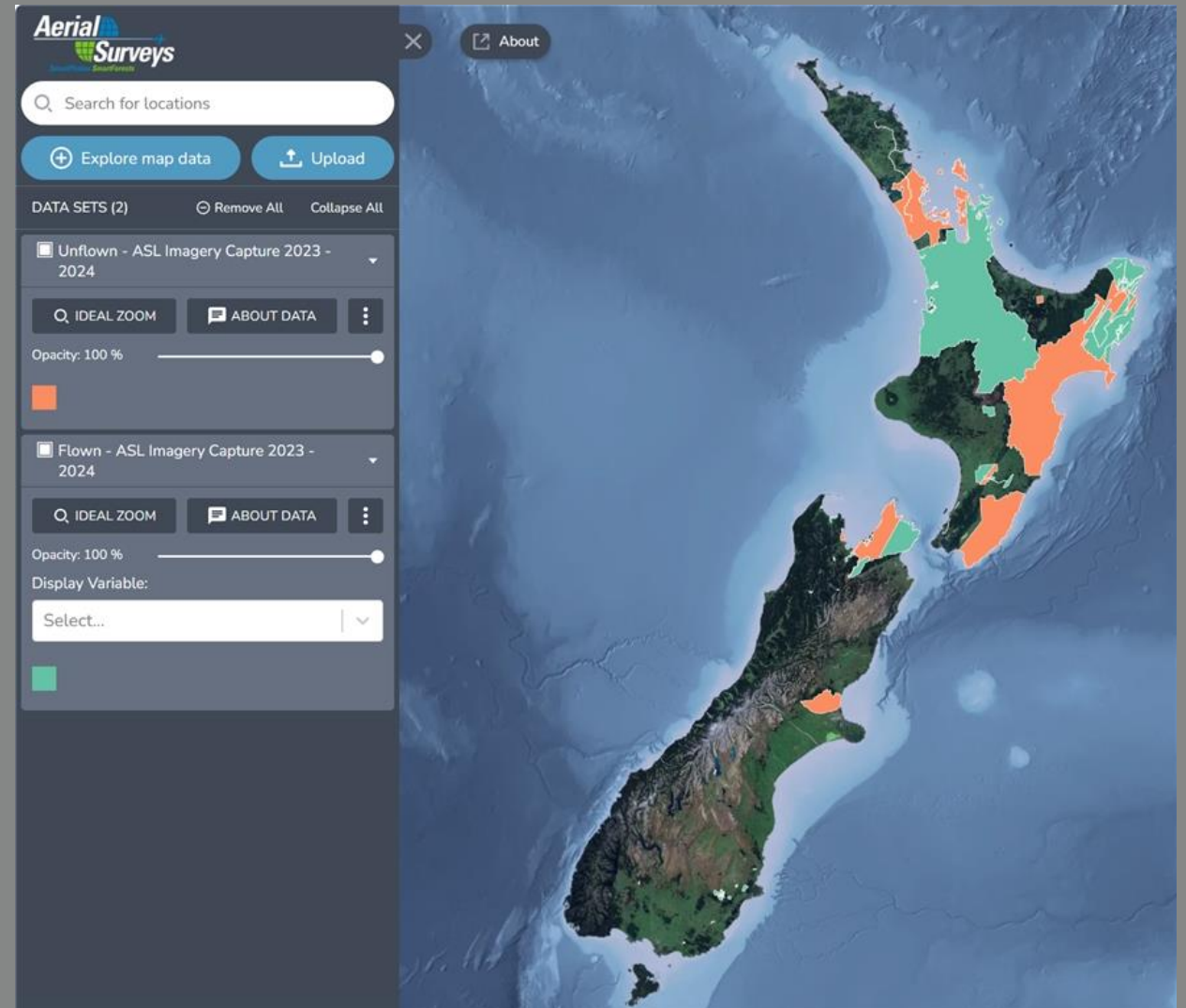


ASL Portal

- To be Flown, Captured, Processing & Delivery Stages of Projects



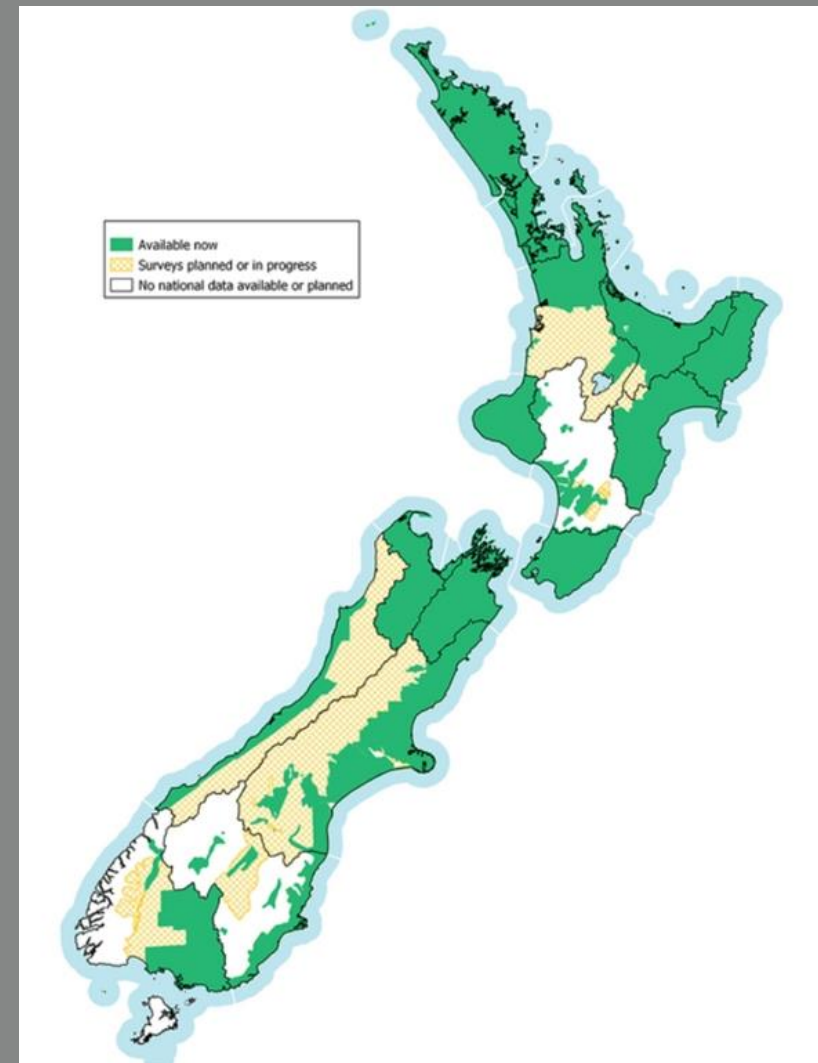
The screenshot shows the 'Data Catalogue' section of the ASL Portal. It features a search bar at the top with the text 'Search the catalogue'. Below the search bar, there are several categories of data sets, each with a dropdown arrow. The categories are: 'ASL Imagery Capture', 'ASL LiDAR Capture', 'PGF LiDAR Capture Todate', and 'ASL Disaster Response Capture'. Under 'ASL Imagery Capture', there are five entries: 'Flown - ASL Imagery Capture 2023 - 2024', 'Unflown - ASL Imagery Capture 2023 - 2024', 'Flown - ASL Imagery Capture 2022 - 2023', 'Flown - ASL Imagery Capture 2021 - 2022', and 'Flown - ASL Imagery Capture 2020 - 2021'. Under 'ASL LiDAR Capture', there are five entries: 'Flown - ASL LiDAR Capture 2023 - 2024', 'Unflown - ASL LiDAR Capture 2023 - 2024', 'Flown - ASL LiDAR Capture 2022 - 2023', 'Flown - ASL LiDAR Capture 2021 - 2022', and 'Flown - ASL LiDAR Capture 2020 - 2021'. Under 'ASL Disaster Response Capture', there are two entries: '2022 Nelson Tasman Floods Capture' and '2023 Gisborne Flood Capture'. Each entry has a plus sign icon to its right.



The screenshot shows the ASL Portal map interface. The map displays a satellite view of New Zealand with several data sets overlaid in different colors (orange, green, and blue). The interface includes a search bar at the top with the text 'Search for locations'. Below the search bar, there are two buttons: 'Explore map data' and 'Upload'. The map shows two data sets: 'Unflown - ASL Imagery Capture 2023 - 2024' and 'Flown - ASL Imagery Capture 2023 - 2024'. Each data set has a search bar, an 'IDEAL ZOOM' button, an 'ABOUT DATA' button, and a three-dot menu icon. The 'Unflown' data set has an opacity slider set to 100%. The 'Flown' data set has an opacity slider set to 100% and a 'Display Variable' dropdown menu with the text 'Select...'. The map also shows a 'PGF LiDAR Capture Todate' data set overlaid in blue.

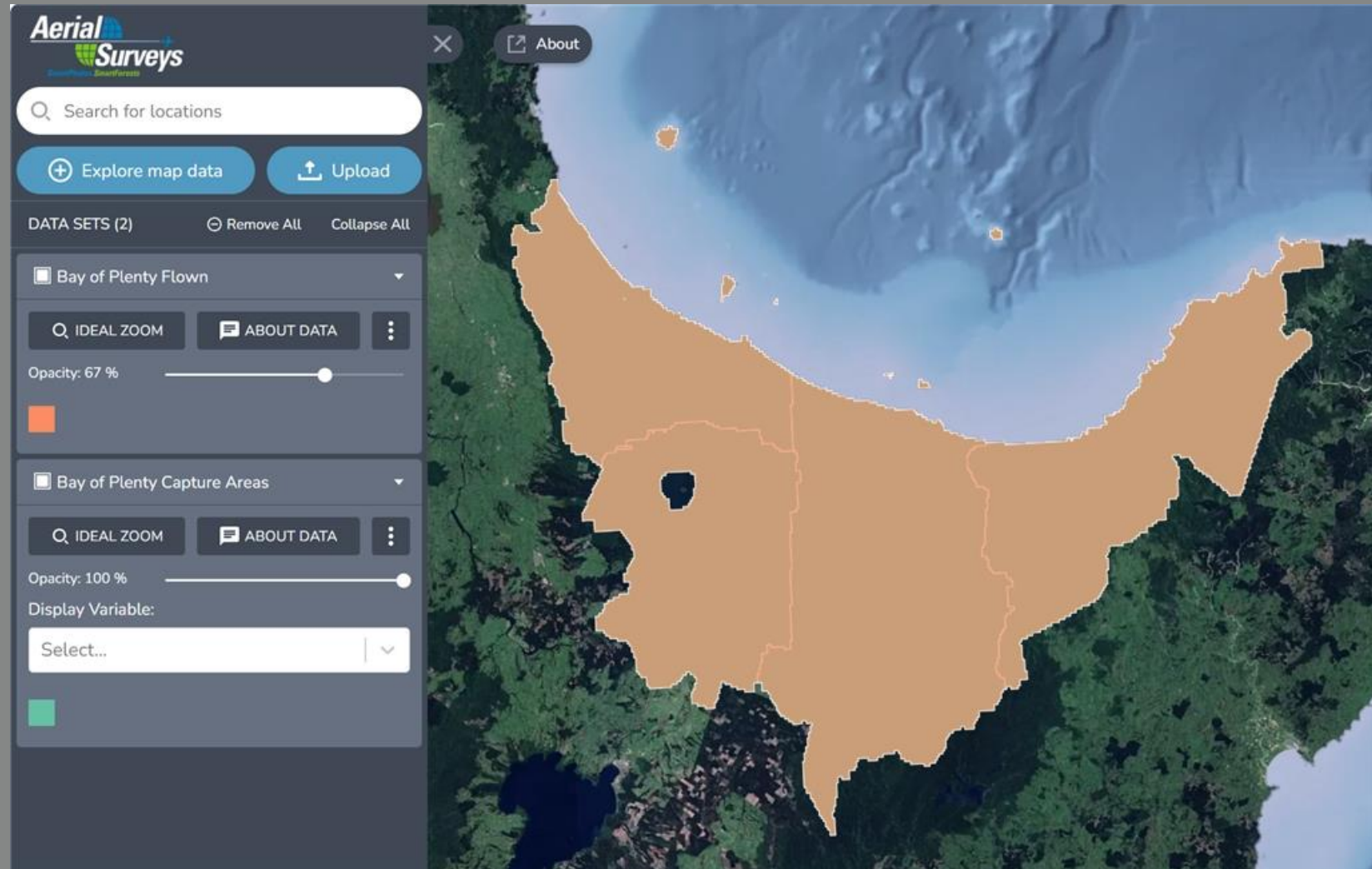
PGF LiDAR Project Status

- ASL Six Regions:
 - Bay of Plenty
 - Tasman
 - Marlborough
 - West Coast
 - Canterbury
 - Southland
- All ASL Regions 4 ppm²
- Simultaneous RGB Imagery Capture
 - 20 to 25 cm GSD



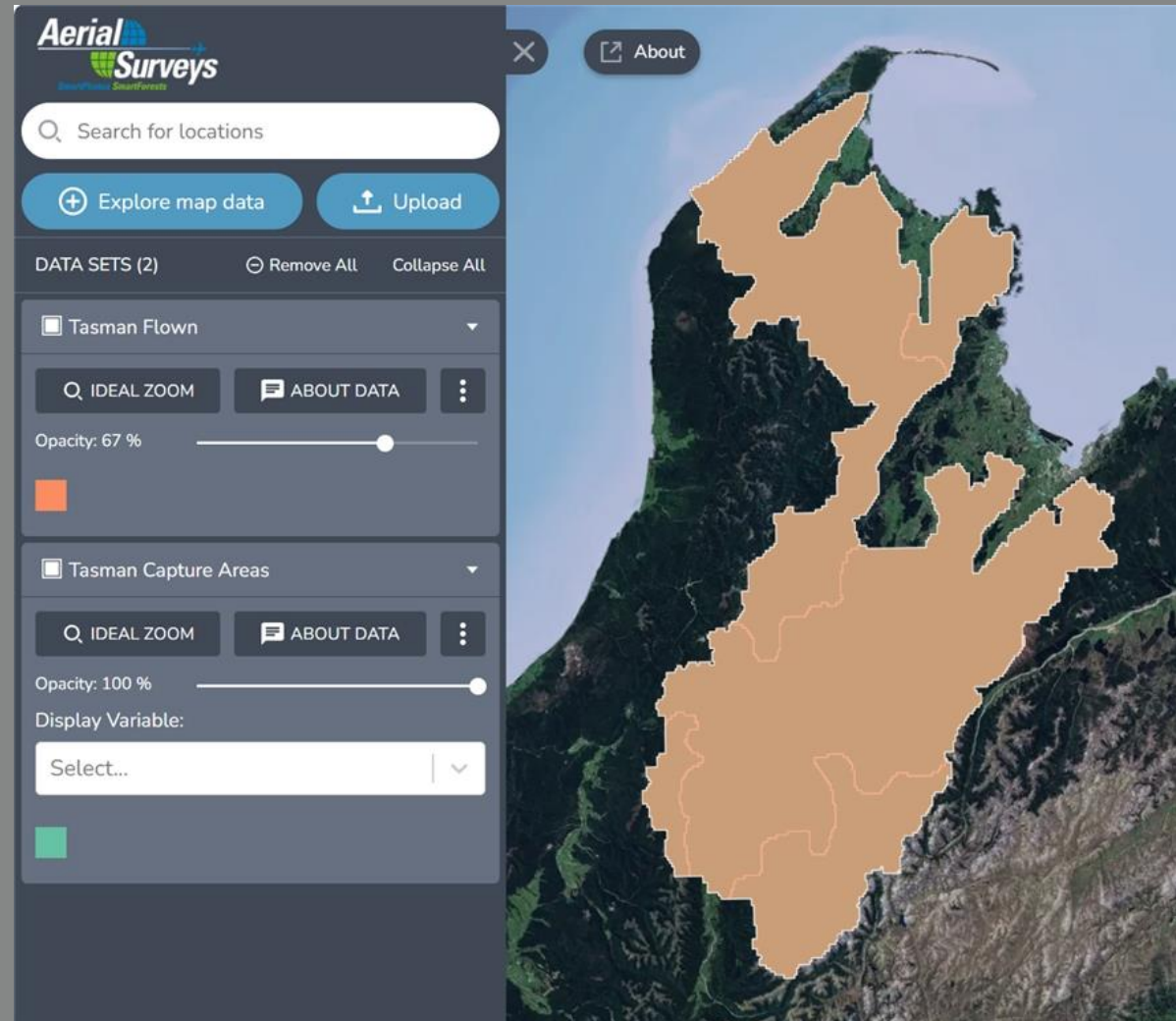
PGF LiDAR Project Status

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 - 20 to 25 cm GSD



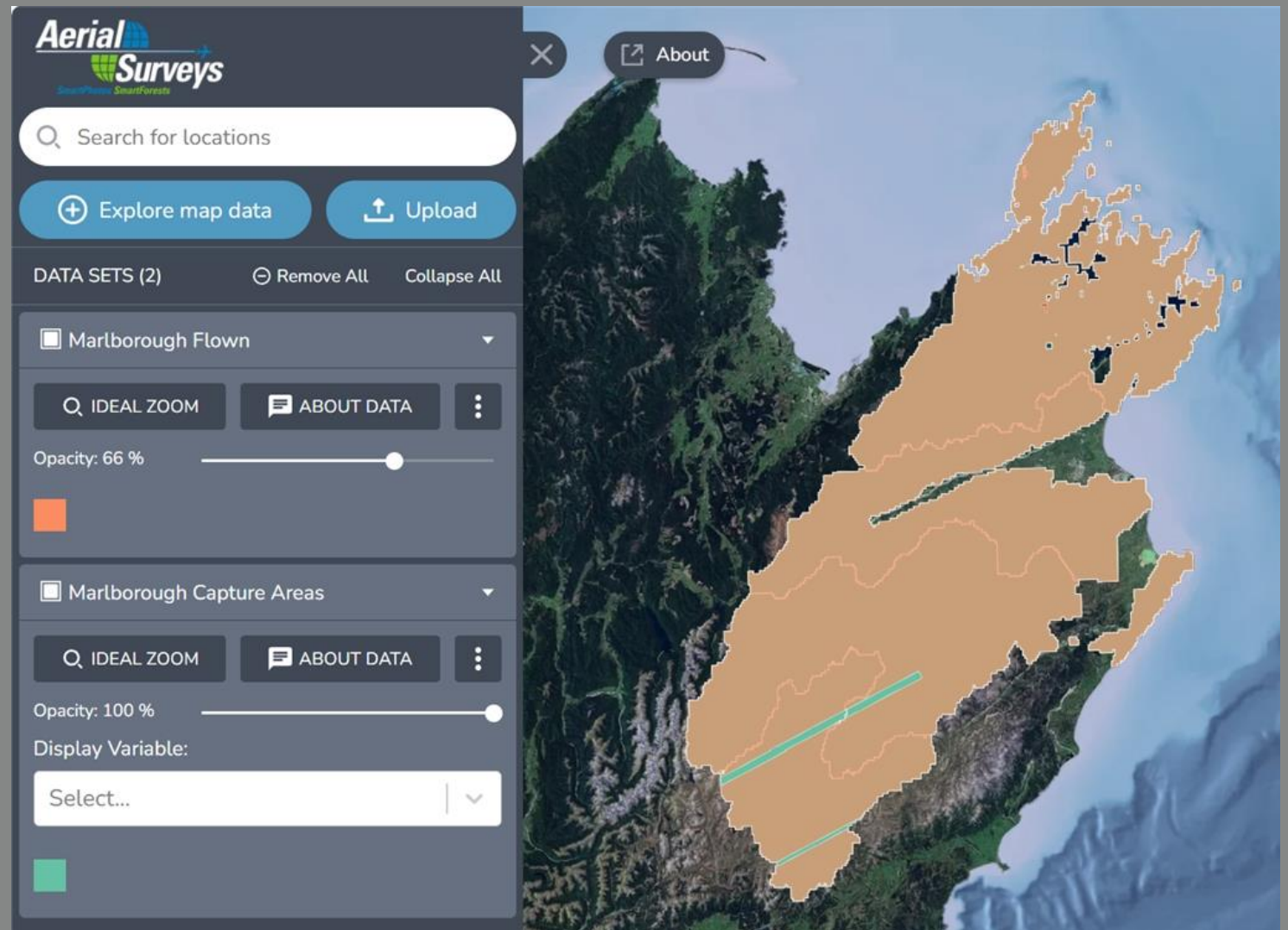
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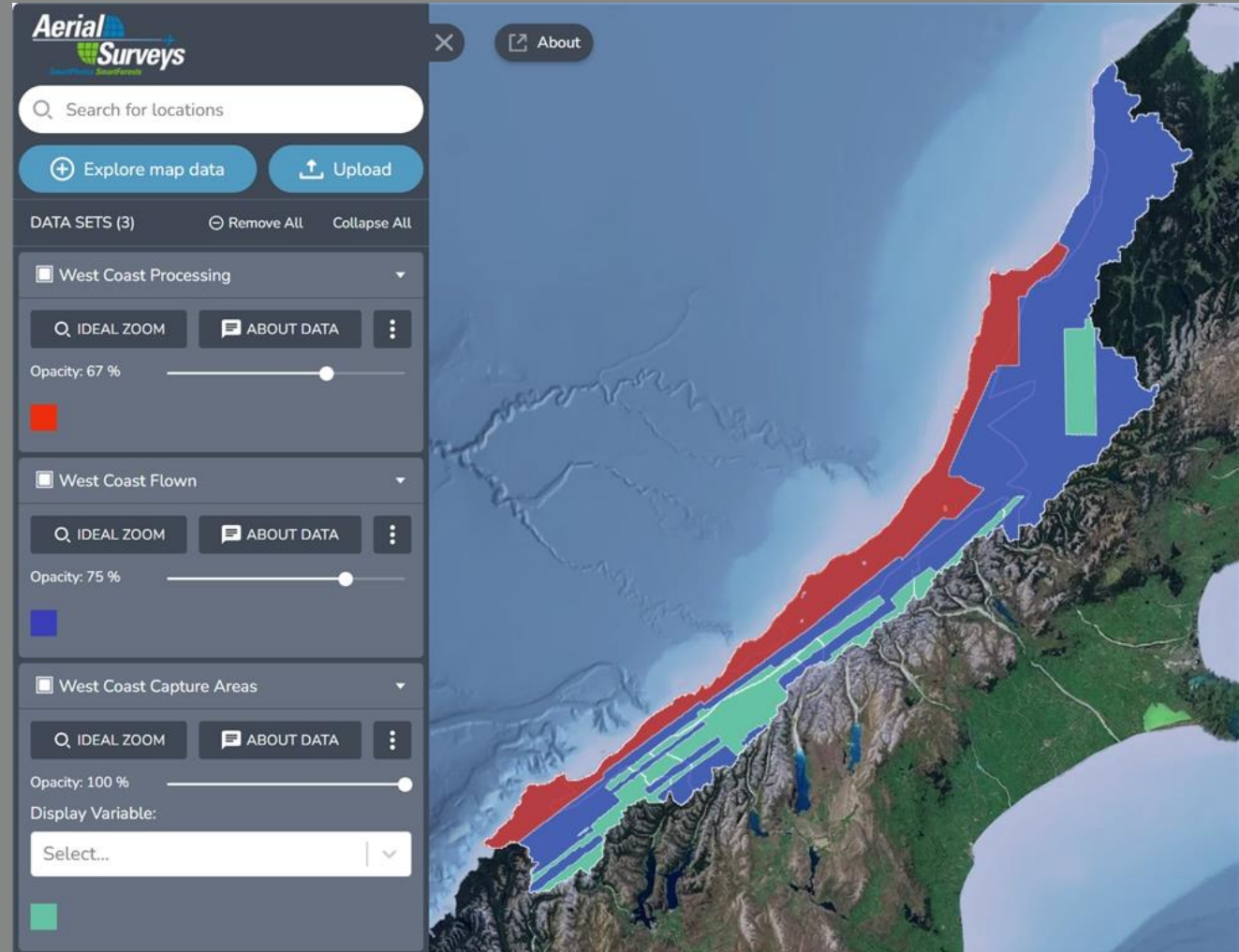
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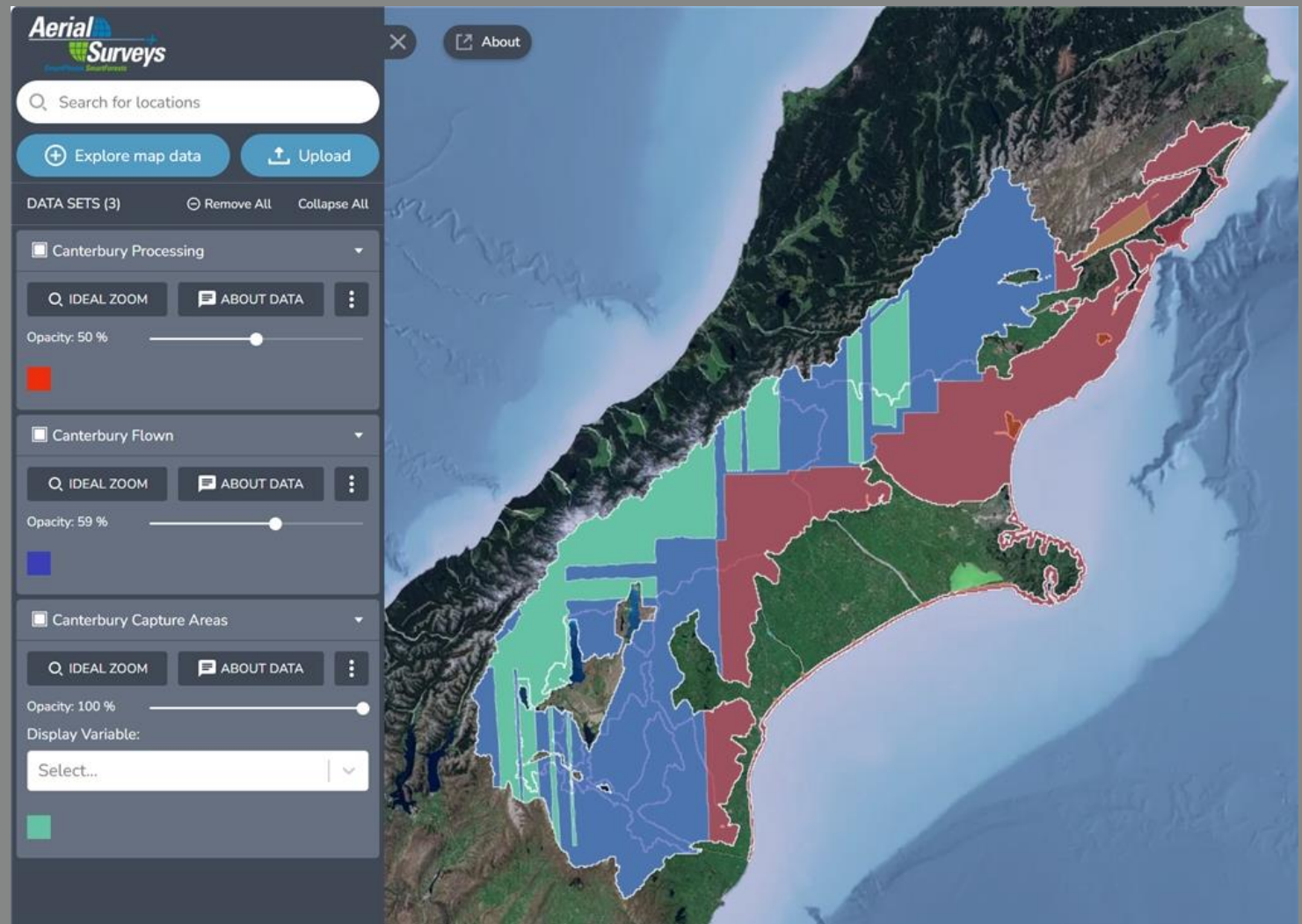
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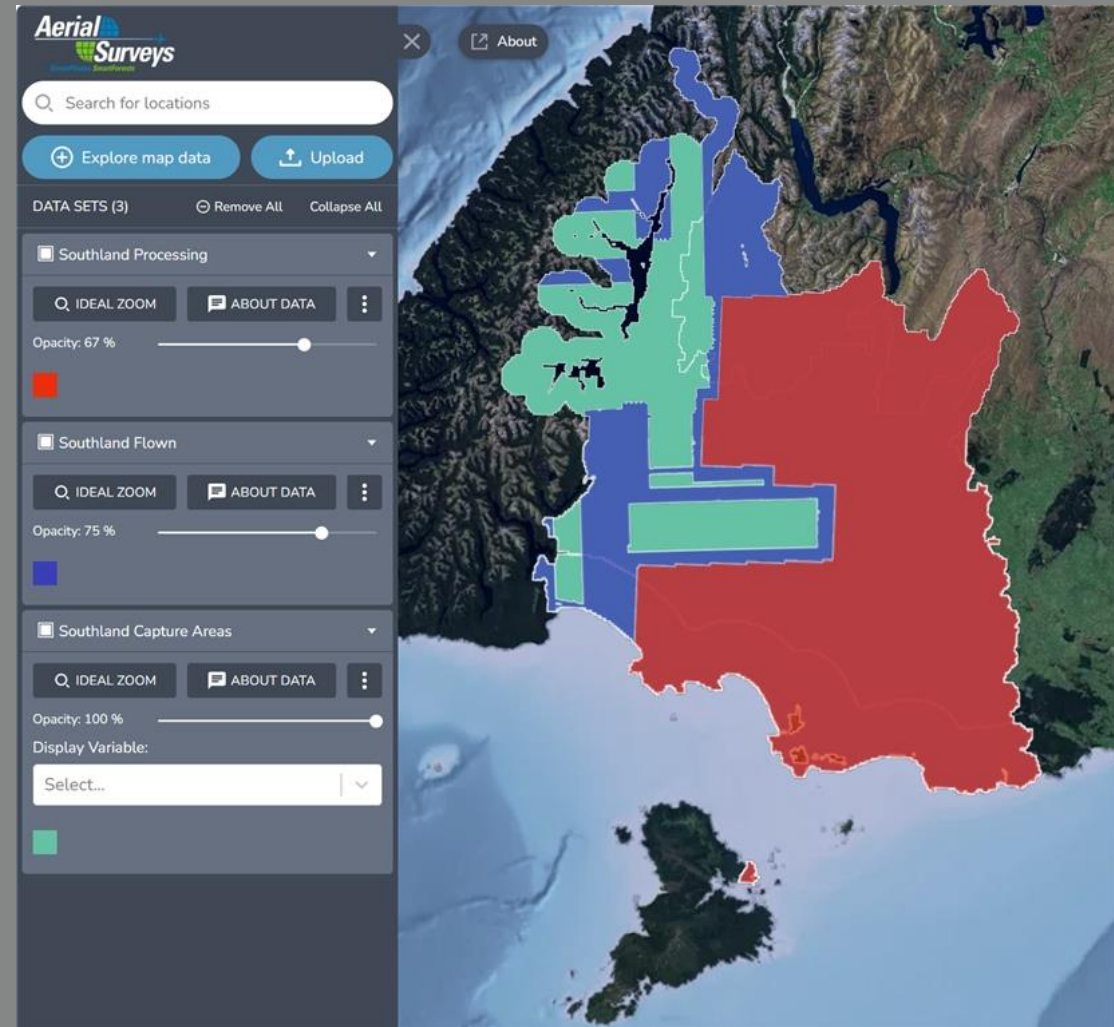
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PGF LiDAR Project Status

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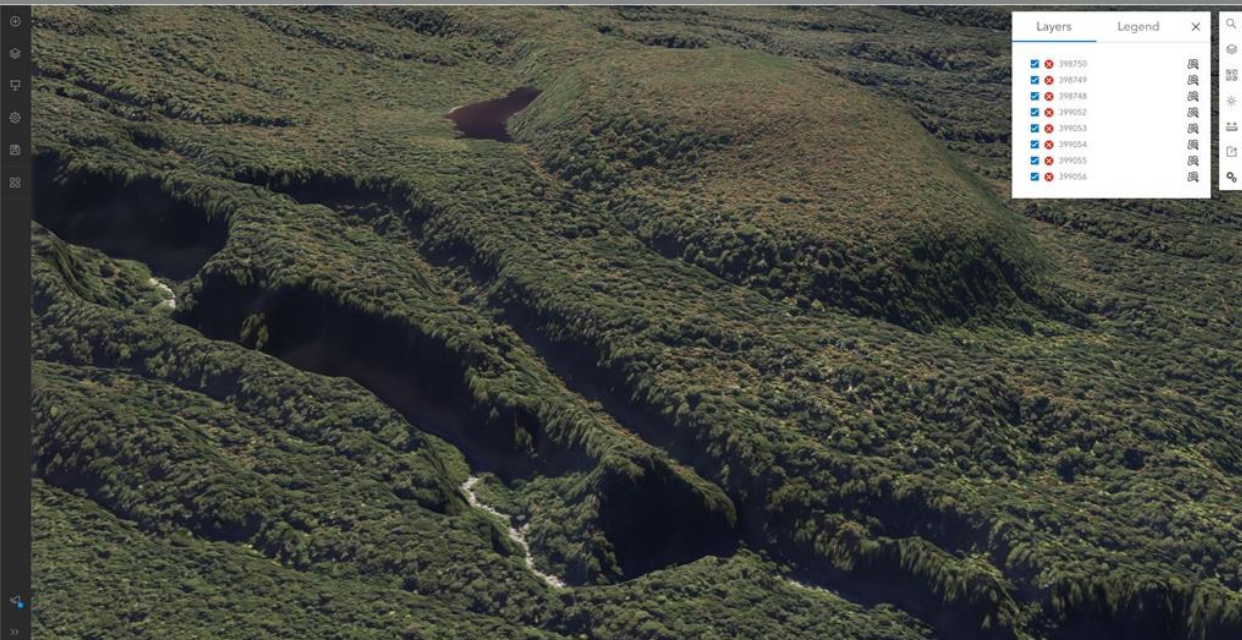


3D-Mesh Base Map

Subscription Based Model

3D-Mesh Base Map

- Photogrammetric 3D Model
 - Stereo Imagery from Regional Imagery Projects
 - Older Imagery GSD of 0.3m to 0.4m
 - Recent Imagery GSD of 0.2m



Thank You!

Any Questions?