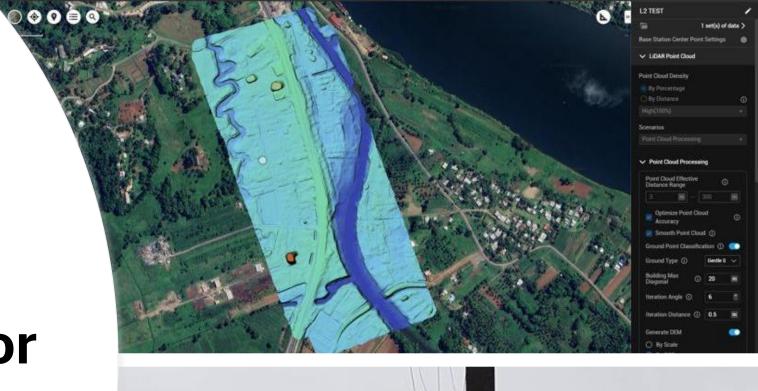


Geospatial Data for the Pacific





The Pacific has a data problem

Pacific Island Countries have outdated and limited access to credible land and ocean information.

Costs to acquire land information are some of the highest in the world (ageing survey industry, limited uptake in new technology, outdated datums/poor survey control)

Duplication of data - No alignment in strategic areas for mapping by the government/donors.

No central depository or aerial mapping national standard

A sustainable data service

• The Pacific Island Governments for the protection of its people and environment, need access to a geospatial data service that will allow more informed policy decisions that will drive safer and more prosperous communities in a rapidly changing climate impacted world.













Phase 1. Build the Sandbox

- ✓ Acquire 700 square kilometers of Airbourne LiDAR and Imagery
- ✓ Final deliverables processed and loaded into Moana platform
- ✓ Open Platform to the Government and stakeholders

• For Users

- Easy access to comprehensive geospatial data
- Improved decision-making with accurate information
- Enhanced collaboration through shared data

• For Organizations

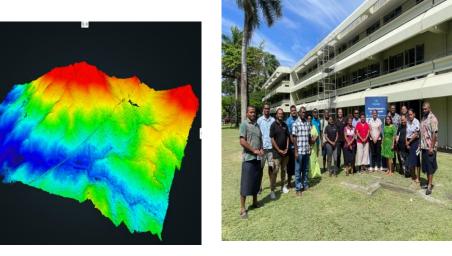
- Streamlined data management
- Cost savings from reduced data duplication
- Better public service delivery

The Vision









Simplicity

Digital Land Information at a click

Accuracy

Ensuring geospatial accuracy for engineering decisions and deformation monitoring

Up to Date

Acquire new high quality LiDAR, Imagery and bathymetry around critical areas of the pacific, updating key areas of interest regularly

Collate

Make historic datasets available via the portal to ensure maximum benefit from the data along with quality control and metadata

Collaborate

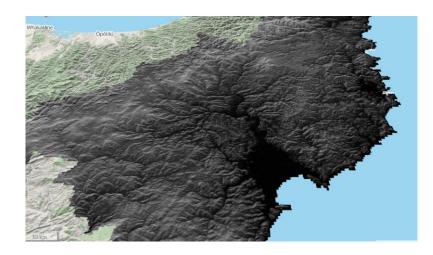
Empower communities to leverage geospatial information to inform sustainability

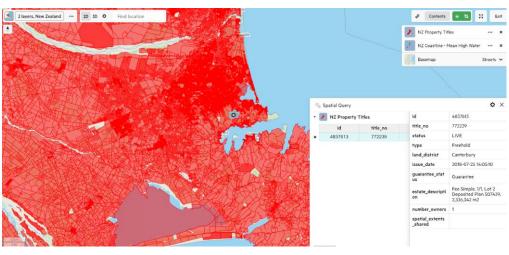
Overview of Digital Moana Data Service

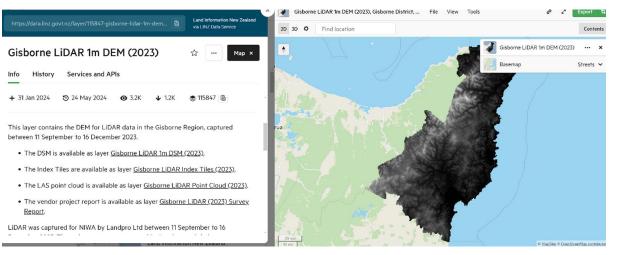
Key Features

- Centralized data repository
- High-quality geospatial data
- User-friendly access and tools
- Integration with other systems





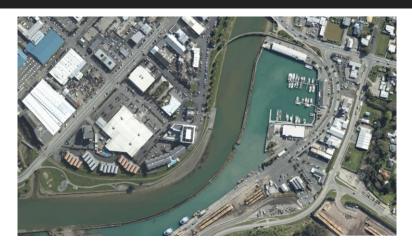




Benefits of Digital Moana Data Service

For Users

- Easy access to comprehensive geospatial data
- Improved decision-making with accurate information
- Enhanced collaboration through shared data
- For Organizations
 - Streamlined data management
 - Cost savings from reduced data duplication
 - Better public service delivery







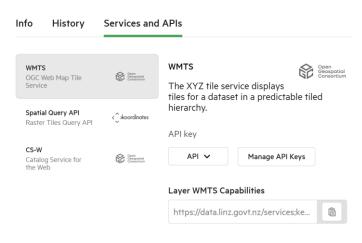
Info History Services and APIs

Imagery was captured for National Institute of Water and Atmospheric Research by Landpro between 9 Nov 2023 and 19 Mar 2024.

Data comprises:

- 2090 ortho-rectified RGB GeoTIFF images in NZTM projection, tiled into the LINZ Standard 1:5000 tile layout.
- Tile layout in NZTM projection containing relevant information.

Imagery supplied as 20cm pixel resolution (0.2m GSD). The final spatial accuracy is +/- 1m at 95% confidence.



Pacific Island Context

- Current Challenges
 - Limited access to geospatial data
 - Fragmented data sources
 - High costs of data management
- Opportunities
 - Increasing demand for accurate spatial information
 - Potential for enhanced regional collaboration







Search

Enter your keywords

fiji, samoa, vanuatu

SEARCH

▶ ADVANCED SEARCH

Your search yielded no results





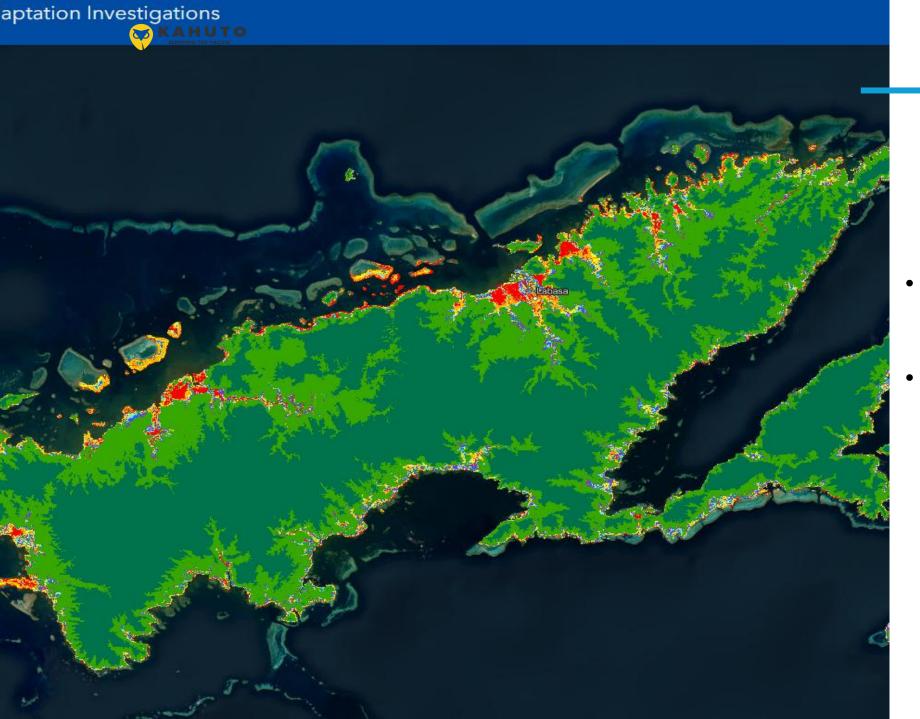
- Lion One metals required an aerial LiDAR survey to inform dam failure modeling for Tailings Dam in close proximity to Korebebe Village
- Survey was required urgently and traditional survey methods would have been time costly and also hazardous for surveyors working across steep and dangerous terrain

Why is it important



- Infrastructure Risk Exposure Mapping Vanuatu
- Tsunami and Sinkhole proximity to water supply system





- Remote sensing digital terrain model analysis – Vanua Levu
- Colour elevation banding as proxy to coastal surge and tsunami inundation risk















