



AND **Locate25** | G
THE NATIONAL GEOSPATIAL CONFERENCE

Presented at the FIG Working Week 2025,
6-10 April 2025 in Brisbane, Australia
FIG Geospatial Council of Australia
Brisbane, Australia 6-10 April

Collaboration, Innovation and Resilience: Championing a Digital Generation

Moana Data Service - Sustainable Geospatial Data



Christopher Saili
Managing Director, Kahuto Investments



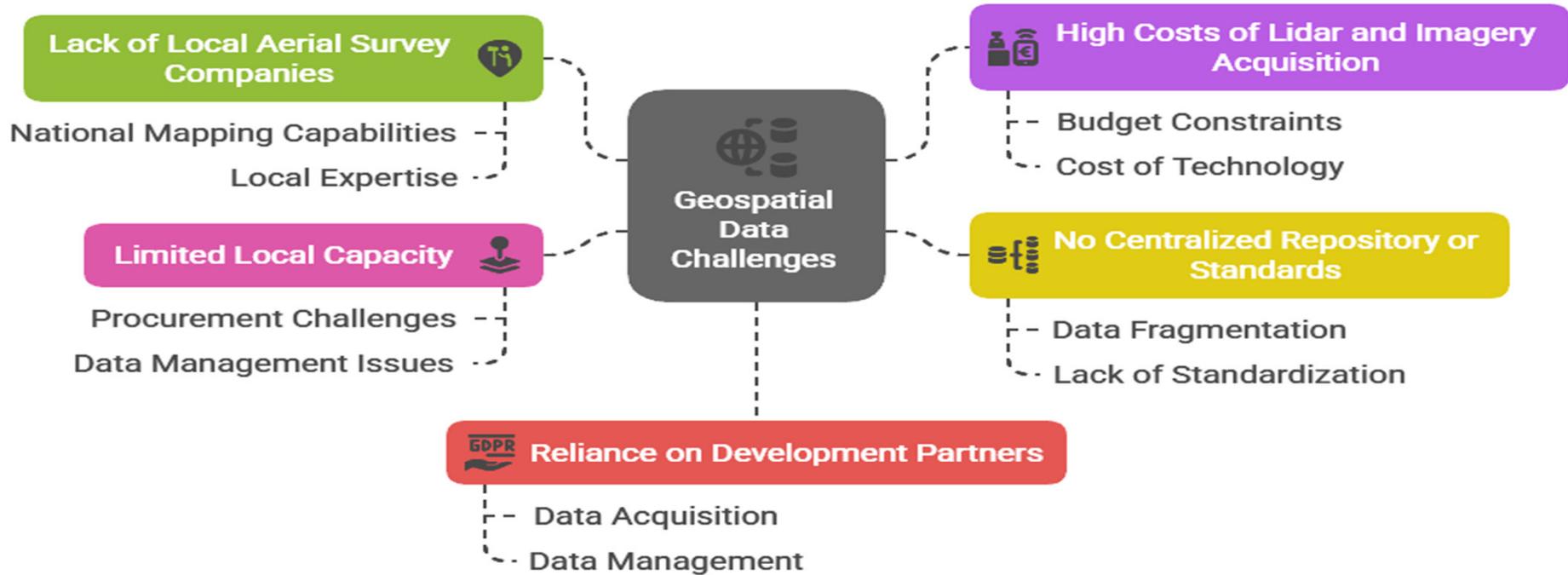
PLATINUM SPONSORS



The Pacific Islands lacks access to national geospatial data



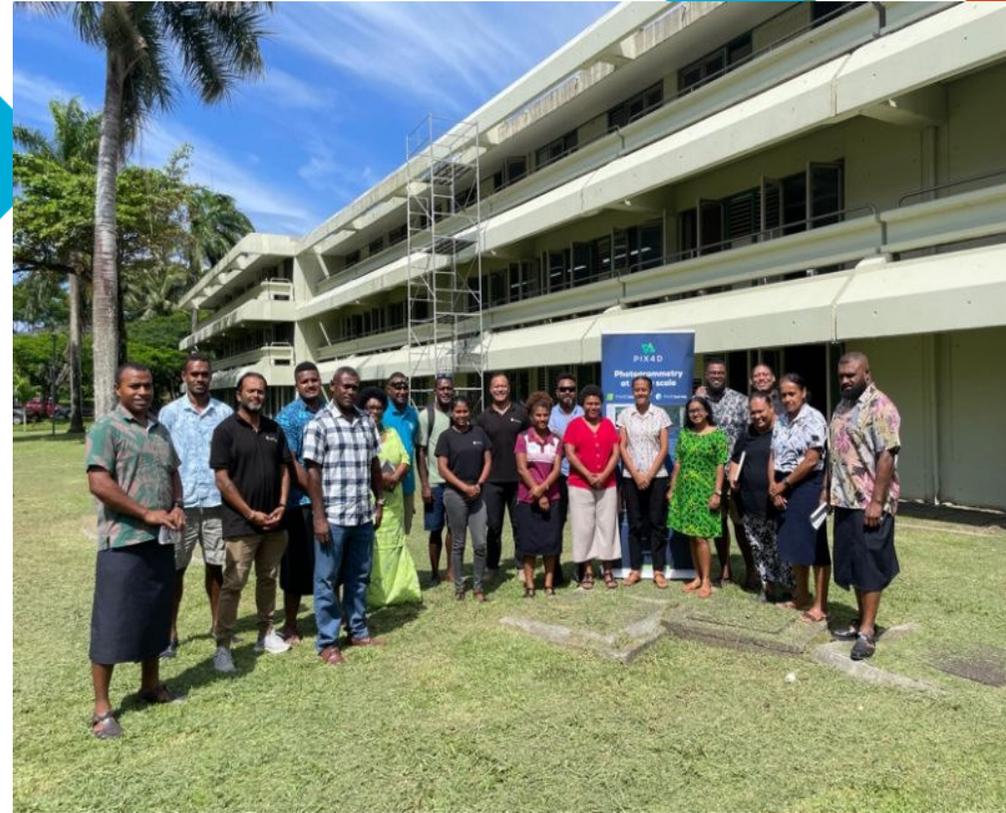
Addressing Geospatial Data Challenges in the Pacific



Made with Napkin

A sustainable data service

The Fijian Government 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.



The **Moana Data Service** is a locally led initiative designed to liberate the accessibility of **high-resolution LiDAR, imagery, and geospatial data** for decision-makers across the **Pacific Islands**.

The word **Moana** means **ocean**, a symbol of deep cultural and environmental significance for Pacific communities. The **Pacific Islands are all connected through the ocean**, which has long served as a source of sustenance, identity, and navigation. Just as the ocean unites the Pacific, the **Moana Data Service** seeks to **connect Pacific leaders to critical geospatial data**, empowering governments to manage their own strategic datasets for sustainable development and climate resilience.





Moana Phase 2. May 2025

- ✓ Acquire 800 square kilometers of Airbourne LiDAR and Imagery
- ✓ Final deliverables processed and loaded into Moana platform
- ✓ Open Platform to the Government and stakeholders
- ✓ Integrate into Vanua View



Simplicity

Digital Land Information at a click



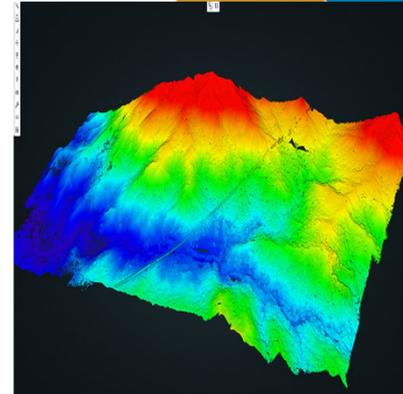
Accuracy

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

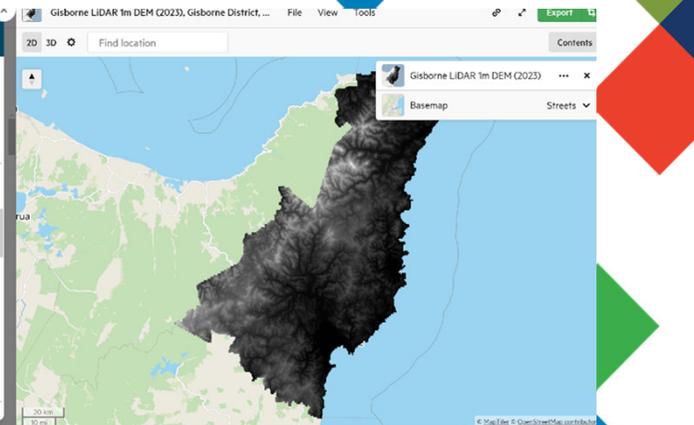
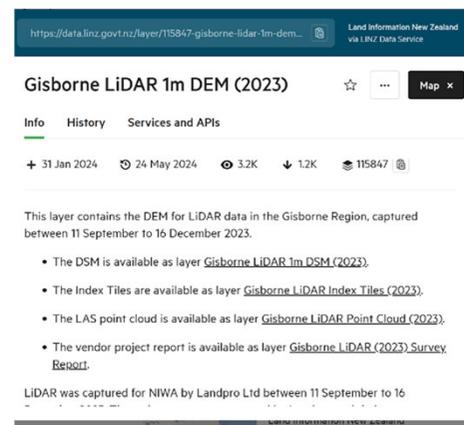
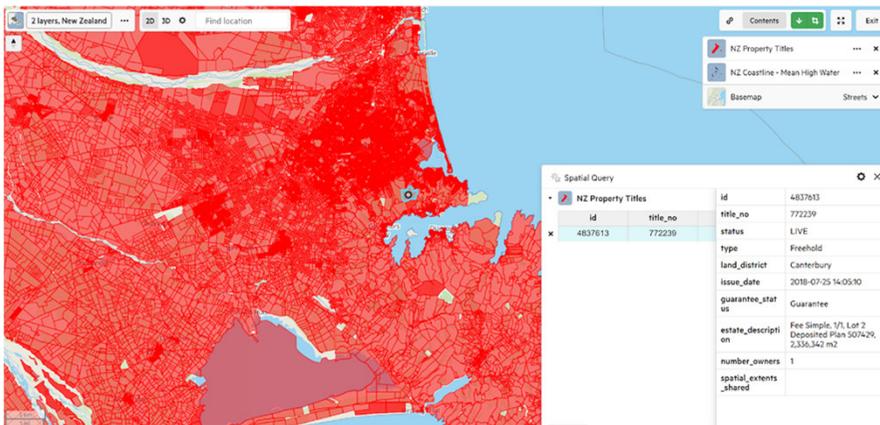
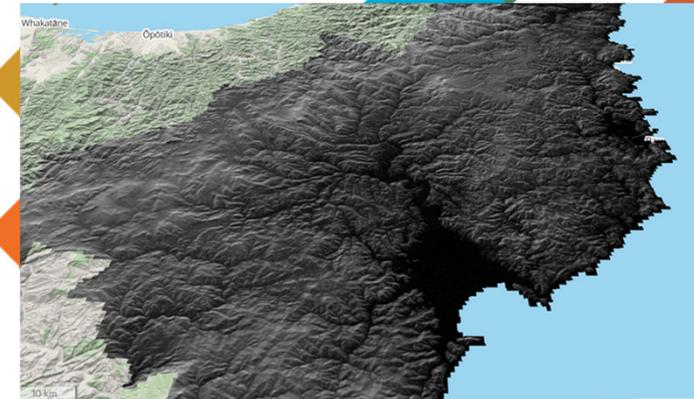
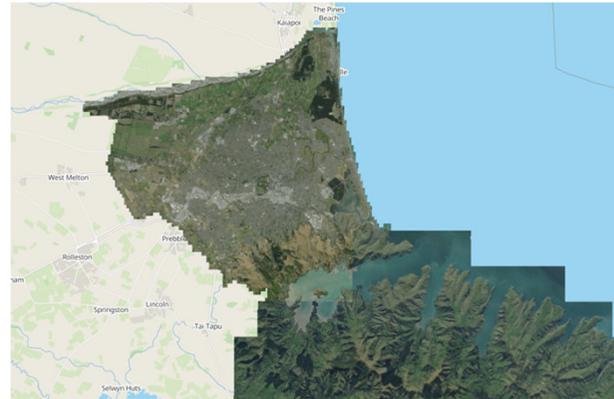


Collaborate

Empower communities to leverage geospatial information to inform sustainability

Key Features

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



How We Steward Data

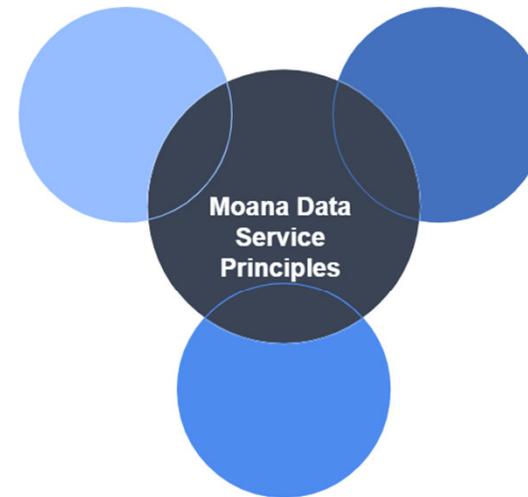
- **Guiding Principles: FAIR, CARE, TRUST**
- Our data stewardship approach is built on internationally recognized principles:
- **FAIR** (Findable, Accessible, Interoperable, Reusable) – Ensuring that data is **organized, searchable, and usable** across sectors.
- **CARE** (Collective Benefit, Authority to Control, Responsibility, Ethics) – Prioritizing the **rights and interests of Pacific communities** in data governance.
- **TRUST** (Transparency, Responsibility, User-Focused, Sustainability, Technology) – Building **reliable, long-term infrastructure** for data storage and access.

K. Casey, P. Lemieux, and N. Ritchey
NOAA/NESDIS/NCE
NESDIS Data Management Working Group
May 2022

Guiding Principles for Pacific Geospatial Data Empowerment

TRUST Principles

Builds reliable, long-term infrastructure for data storage and access.



FAIR Principles

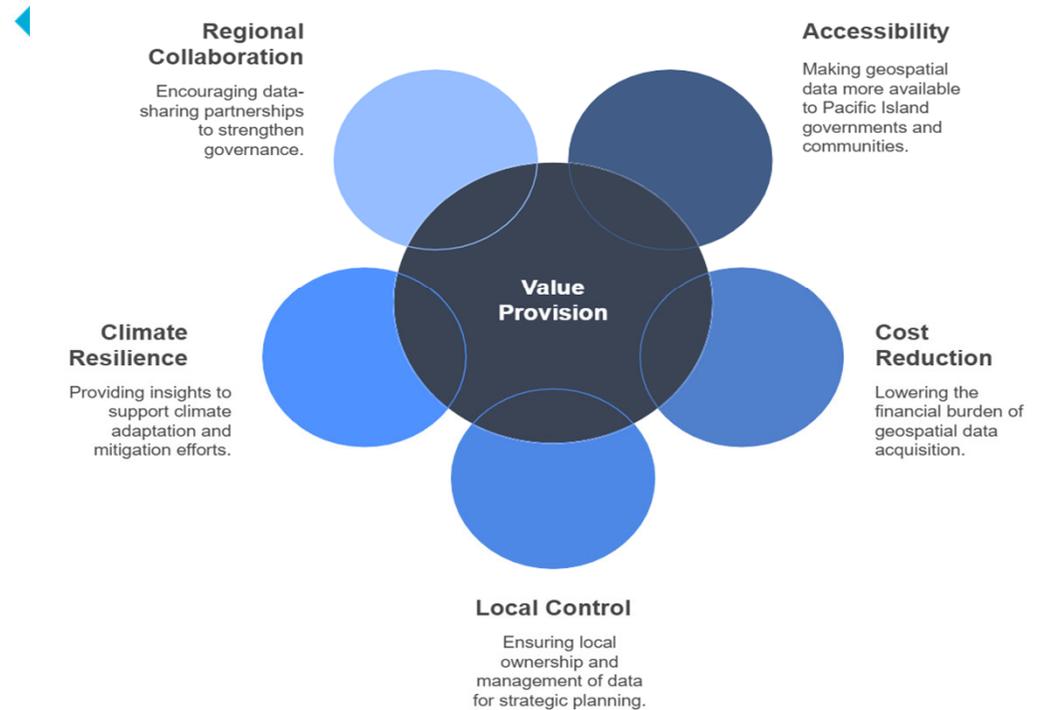
Ensures data is organized, searchable, and usable across sectors.

CARE Principles

Prioritizes the rights and interests of Pacific communities in data governance.

Increasing	Increasing Accessibility to Geospatial Data – Making critical datasets more available to Pacific Island Governments and communities.
Reducing	Reducing Costs – Lowering the financial burden of geospatial data acquisition for Pacific Island Governments.
Enabling	Enabling Local Control – Ensuring governments can own, manage, and utilize their own data for strategic planning.
Enhancing	Enhancing Climate Resilience – Providing critical geospatial insights to support climate adaptation and mitigation efforts.
Fostering	Fostering Regional Collaboration – Encouraging data-sharing partnerships to strengthen governance and decision-making

Empowering Pacific Islands Through Accessible and Sustainable Geospatial Solutions





Locate25

Collaboration, Innovation and
Championing a Digital Generation

THE NATIONAL GEOGRAPHIC



Geospatial
Council of Australia

6-10 April



ORC

M SPONSORS

Australian Government



The most relevant SDGs related to the presentation and theme of this session

1st relevant SDG

11 SUSTAINABLE CITIES AND COMMUNITIES

2nd relevant SDG

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

3rd relevant SDG

15 LIFE ON LAND

SUSTAINABLE DEVELOPMENT GOALS

International Federation of Surveyors supports the Sustainable Development Goals



WORKING WEEK 2025

AND

Locate25 | **G**
THE NATIONAL GEOSPATIAL CONFERENCE

Collaboration, Innovation and Resilience:
Championing a Digital Generation



Brisbane, Australia 6-10 April

STEP 1: SELECT HERE THE THREE MOST RELEVANT SDGs
STEP 2: COPY THE SDG INTO PREVIOUS SLIDE

1 NO POVERTY 	2 ZERO HUNGER 	3 GOOD HEALTH AND WELL-BEING 	4 QUALITY EDUCATION 	5 GENDER EQUALITY 	6 CLEAN WATER AND SANITATION 	7 AFFORDABLE AND CLEAN ENERGY 	8 DECENT WORK AND ECONOMIC GROWTH 	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
10 REDUCED INEQUALITIES 	11 SUSTAINABLE CITIES AND COMMUNITIES 	12 RESPONSIBLE CONSUMPTION AND PRODUCTION 	13 CLIMATE ACTION 	14 LIFE BELOW WATER 	15 LIFE ON LAND 	16 PEACE, JUSTICE AND STRONG INSTITUTIONS 	17 PARTNERSHIPS FOR THE GOALS 	