



Pacific
Community
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SDG
DATA
ALLIANCE

TONGA STATUS GEOSPATIAL & SURVEYING

EXPERT CONSULTATION AND MEETING ON ENHANCING GEOSPATIAL INFORMATION MANAGEMENT ARRANGEMENTS AND ACCELERATING THE IMPLEMENTATION OF THE SUSTAINABLE DEVELOPMENT GOALS TOGETHER WITH THE SUB-REGIONAL WORKSHOP ON UNITED NATIONS INTEGRATED GEOSPATIAL INFORMATION FRAMEWORK FOR THE PACIFIC ISLAND COUNTRIES AND TERRITORIES

AND

THE 2024 ANNUAL MEETING OF THE PACIFIC GEOSPATIAL AND SURVEYING COUNCIL

Pasifika Conference Room, Pacific Community (SPC), Lotus Building, Suva, Fiji

11th November 2024

Current Status - Geospatial & Surveying

- **Geospatial**

- 1) Developed and launched the National Integrated Geospatial Action Plan 2023 - 2027.
 - Action Plan was completed and launched in September 2023.
- 2) Low funds and capacity to implement the Action Plan.
- 3) Improvement in software - Transitioning from ArcMap to ArcGIS Online and ArcGIS Pro.
- 4) Ongoing digitization of Land Administration works.
- 5) Commencing with the twin track - Development of the SDG Data Hub.
 - Conducted 1x National Workshop (July 2024).
 - Launched the Solution – currently populating.

- **Surveying**

- 1) Draft Surveying Bill completed.
- 2) Low number of cadastral surveyors.
- 3) Low number of trained surveyors.
- 4) Low number of geodetic surveyors.
- 5) Low number of expertise in specialized areas GNSS and geodesy.
- 6) Need more surveying and GNSS software.
- 7) Tonga's National GNSS network developed.
- 8) Modernised geodetic datum.
- 9) New Height system not yet implemented.

Future - Geospatial & Surveying (5-10 years)

- **Geospatial**

- 1) Centralized Geospatial Data Platform
- 2) Enhanced Data Collection and Analysis Capabilities
- 3) Capacity building and local expertise.
- 4) Integration of GIS in Policy and Decision Making.
- 5) Public Engagement and Accessibility

- **Surveying**

- 1) More qualified surveyors and geodetic surveyors
- 2) Fully automated surveying work
- 3) Robust GNSS network
- 4) More experts in-house in cadastral, geodetic and engineering survey
- 5) Robust legal and policy framework for surveying
- 6) More postgraduate qualifications in surveying researching in specialized areas
- 7) More women and young people in surveying
- 8) More scholarships
- 9) Update geospatial reference systems (Update geodetic datum and height system in place)

Resources

What are the necessary resources required to enhance your agencies/countries geospatial information management?

- Scholarships: More qualified staff
- In-house experts in specialized areas like geodesy and GNSS
- More funding.
- More recognition of the significance of geospatial information.
- Enhanced regional and national cooperation and collaboration and knowledge sharing.
- A GNSS network that supports disaster and hazard management especially tsunami early warning system.



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