



11TH TRANCHE DEVELOPMENT ACCOUNT PROJECT

STRENGTHENING GEOSPATIAL INFORMATION MANAGEMENT IN DEVELOPING COUNTRIES TOWARDS IMPLEMENTING THE 2030 AGENDA FOR SUSTAINABLE DEVELOPMENT (PROJECT 1819D)

Development Account Project Country Action Plan

Integrated Geospatial Information Framework | Integrated Geospatial Information Management

GEOSPATIAL LANDSCAPE - A GOVERNMENT PERSPECTIVE

ROSAMOND BING
Chief Executive Officer
Ministry of Lands and Natural Resources



VISION

A higher quality of life for all Tongans supported by accessible, accurate and reliable integrated geospatial information



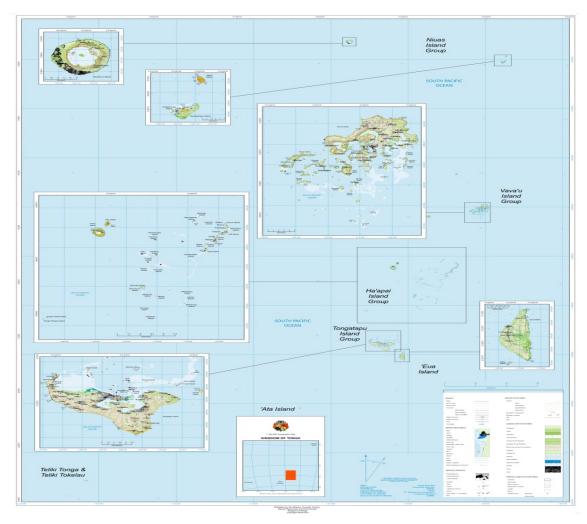


Mission Statement

Promote and support robust coordination and collaboration to achieve a integrated geospatial information management and leverage IGIM as a decision-based mechanism and provide sustainable solutions to local and national needs and opportunities.



Country Profile



Tonga Country Action Plan Background

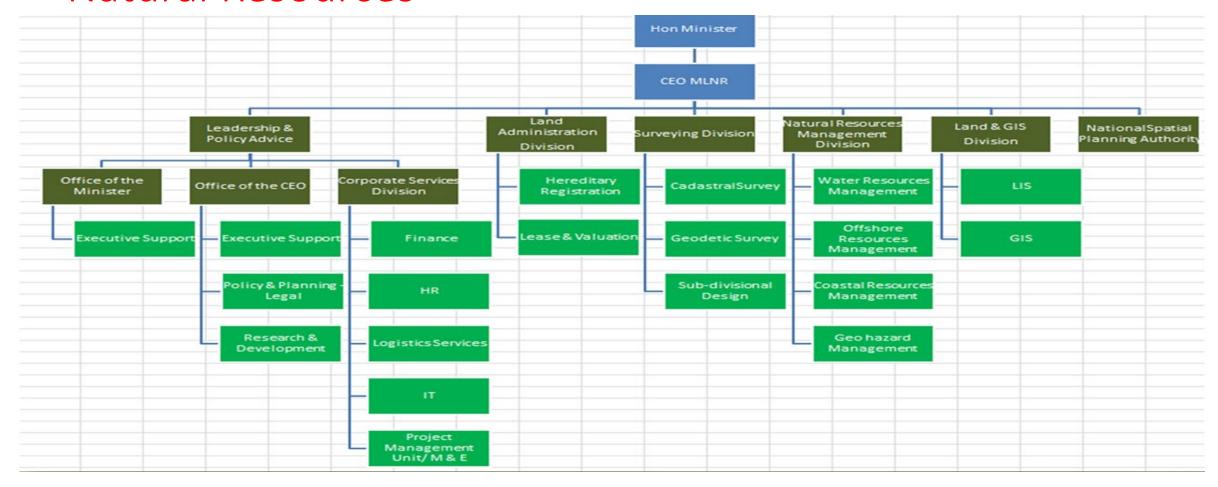
- Tonga Location: <u>Latitude: 21°24′30″S</u> and <u>Longitude:</u> <u>175°58′46″ W</u>.
- Population: 100,651 (2011 census) 19% increase projected by 2030.
- Land Areas by Island Group: Tongatapu 706.703km², Vava'u: 237.332km², Ha'apai: 356.248km², Niuas: 71.220km²
- Ocean Area (EEZ): 761011.823km²







Organizational Profile of the Ministry of Lands and Natural Resources









Integrated Geospatial Information **Framework Parts**

Geosbatial
Lamework
Framework
Framework Integrated

Provide overarching direction for the six target countries

Why?

nformation

Part 1

Implementation Natio Guide mplementation

- Country Action Plans.
 - Identifies key activities that countries can implement to understanding and develop national capacities to strengthen the national technical capabilities in IGIM

What?

(or sub-national) Delivery S National an

Country-level Action Plans

> operationalized activities to national geospatial information management, systems and infrastructures.

How, when, who?

Part 3

Part 2









Development Account Project Plan

TOWARDS STRENGTHENING ARRANGEMENTS IN NATIONAL GEOSPATIAL INFORMATION MANAGEMENT

United Nations 11th Tranche Development Account
Project 1819D "Strengthening Geospatial Information Management in Developing Countries towards
Implementing the 2030 Agenda for Sustainable Development"







METHODOLOGY:

Survey Questionnaires distributed to identify Current and **Desired Performance**

GOAL 1: Effective Geospatial Information Management Enabling geospatial information governance, policy and institutional arrangements that ensure effective geospatial information management, accommodate individual organizational requirements and arrangements, and that are aligned to national and global policy frameworks Current Performance Desired Performance Statement Progress: Priority: The extent to which our governance 1 - Not started: 2 - Minimal: 1 - Low and 5 - High arrangements for geospatial 3 - Moderate; 4 - Extensive; information management bring 5 - Achieved together a broad range of institutions to share and provide access to data. Comment:

Progress: Priority The extent to which our geospatial 1 - Not started; 2 - Minimal; 1 - Low and 5 - High policies and laws stimulate data sharing, 3 - Moderate; 4 - Extensive; innovation and use of geospatial 5 - Achieved information.

Statement

Desired Performance

Comment:

Current Performance

Current Performance Progress 1 = Not started; 2 = Minimal; 3 = Moderate; 4 = Extensive; 5 = Achieved 1 2 3 4 5	Statement The extent to which our technologies and processes enable geospatial information to be easily shared with the broader community of users.	Desired Performance Priority 1 = Low and 5 = High (1) (2) (3) (4) (5)				

Comment





GIS User Group

- Ministry of Lands and Natural Resources
- Ministry of Tourism
- Ministry of Agriculture, Forestry and Food
- Ministry of Fisheries
- Tonga Statistic Department
- Ministry of Education and Training
- His Majesty's Armed Forces
- Tonga Power Limited
- Tonga Water Board
- Tonga Airport Limited
- Waste Authority
- Police Tonga Department
- Ministry of Environment, Information, Disaster, Energy and Climate Change



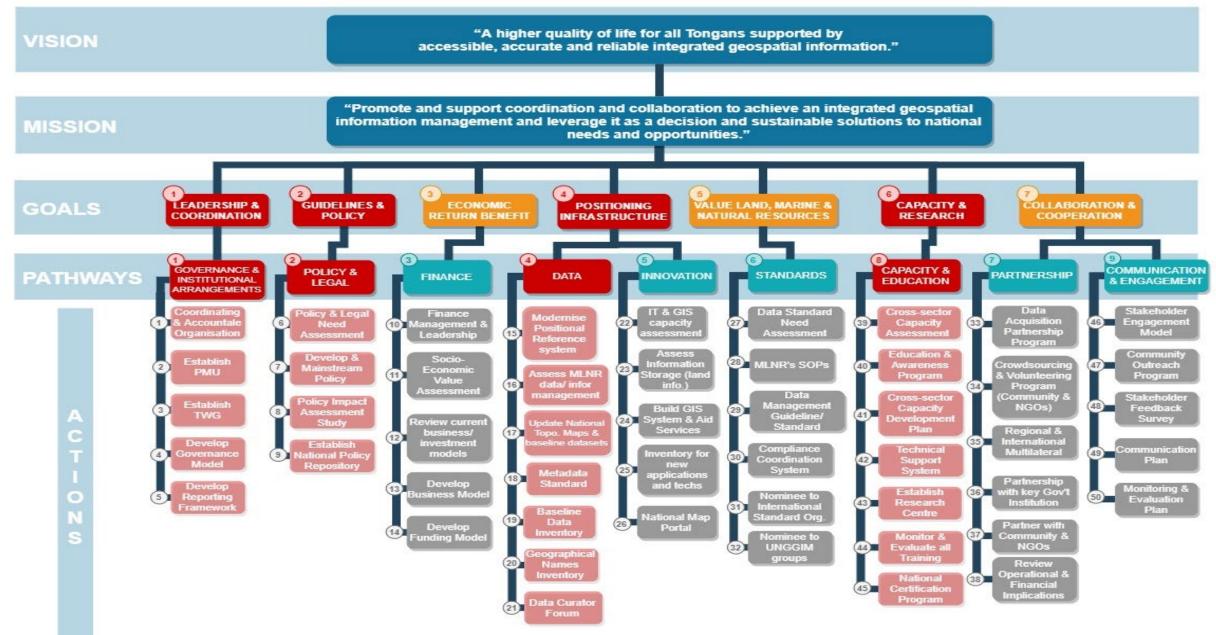


Needs Assessment and Gap Analysis

- articulates the collective vision and goals of Tonga and its stakeholders for integrated geospatial information management;
- reviews the current state of integrated geospatial information management and identification of the challenges faced
- identifies possible strategies of action to minimize or solve the gaps and improve the current state of integrated geospatial information management



Structure of Tonga CAP



To expand capacity development, initiate research and innovation of GIS application progressively with a focus on advancing ENVIRONMENTAL MONITORING, EMERGENCY MANAGEMENT AND DISASTER RISK REDUCTION.



Establish LEADERSHIP AND COORDINATION necessary to deliver and manage an effective integrated geospatial information by 2020 - 2023



Develop GEOSPATIAL GUIDELINES, RESPONSIBILITIES AND POLICY FRAMEWORK by 2020-2025 to promote data standards, sharing and accessibility



To provide accurate, reliable, timely, accessible and fit-for-purpose INTEGRATED GEOSPATIAL INFORMATION FOR ALL USERS in Tonga





Tonga CAP Development Progress

1. Project Execution

- Initiatives Meeting/Training
- Pre-needs assessment & Activities
- Stakeholder Meetings

2. Baselines and Assessment

Questionnaires distributed to Government Ministries & NGOs

3. Country Action Plan

- Planning
- Reviewing
- Amending
- Conduct Talanoa Sessions

4. Implementation

- Monitoring
- Evaluation





Current Tonga CAP

- Reviewing of the CAP
- Weekly Meetings with the UN consultants
- Take comments from UN consultants
- Amending of the CAP (Tonga GIS Team)
- 2nd Stakeholder meeting (Soon)
- Once is all ready the Launching of the Tonga CAP



Alignment of Strategic Goals





TONGA National Infrastructure Investment Plan

2013 - 2023

Combine Utilities Business Plan 2018 - 202





NATIONAL



GOVERNMENT OF TONGA

JOINT NATIONAL ACTION PLAN 2 ON CLIMATE CHANGE



August 2018

Kingdom of Tonga

The 2018-2023 Tonga Digital Government Strategic Plan

"Building A More Progressive Tonga Supporting Higher Quality of

National Biodiversity Strategy & Action Plan

REGIONAL



2014



Framework for Resilient Development in the Pacific

Life for All"

2017 - 2030



INTERNATIONAL





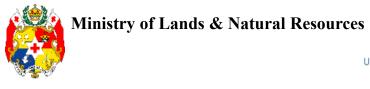






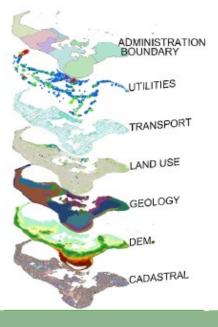


ACKNOWLEDGEMENTS











GIS-based Decision Support System



Disaster Risk Management Services



High Quality Land Administration Services



Climate Change Impact Assessment Services

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