



Implementation of the National Integrated Geospatial Action Plan

Second United Nations World Geospatial Information Congress Hyderabad, India

"Geo-Enabling the Global Village: no one should be left behind"

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Ministry of Lands & Natural Resources
Tonga
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NATIONAL INTEGRATED GEOSPATIAL ACTION PLAN

KINGDOM OF TONGA

STRENGTHENING ARRANGEMENTS TOWARD AN INTEGRATED GEOSPATIAL MANAGEMENT



Final draft endorsed: 21/06/2022







- To strengthen geospatial information management in Tonga to support the implementation of the 2030 Agenda for Sustainable Development Goals,
- To support Tonga's National priorities
- To respond to national circumstances including emergency management.
- To provide the most appropriate and most relevant actions to support and strengthen informed decisions
- To address the gaps, the priority of addressing the gaps, and how to proceed with resolving the gaps through actions.
- To support the achievement of national development priorities toward achieving the Kingdom's SDG goals and targets.



VISION



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

MISSION

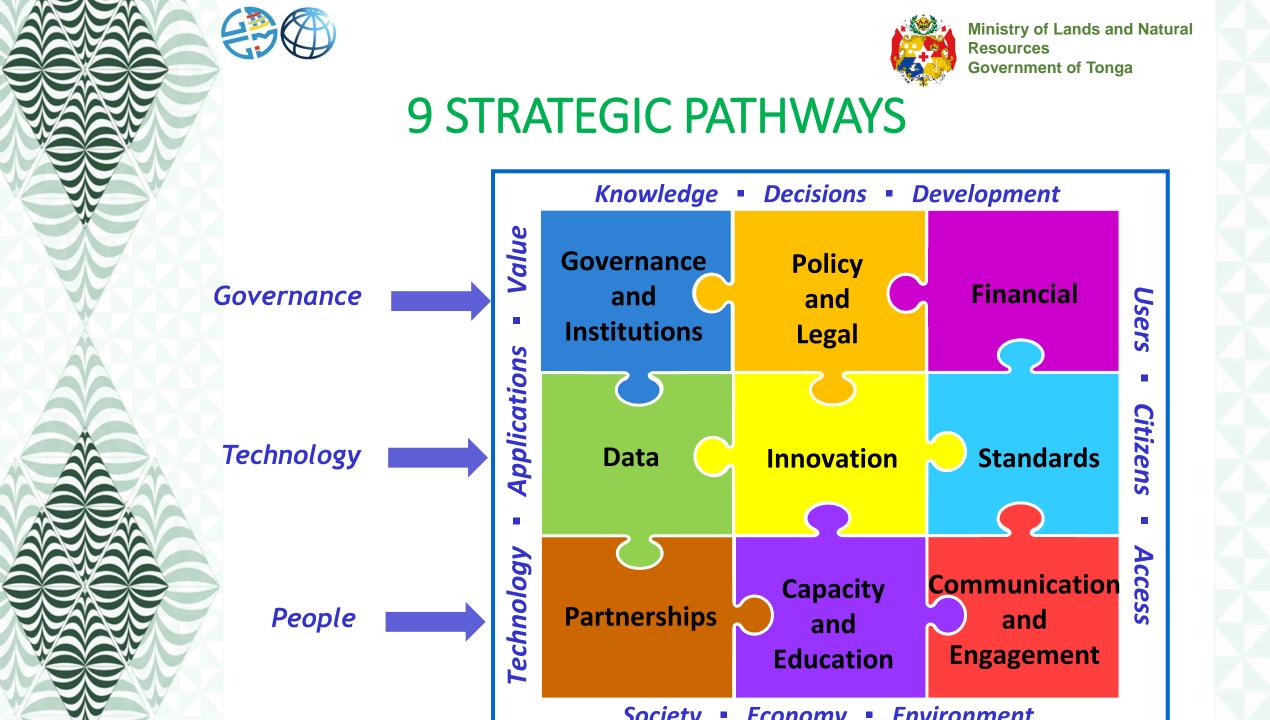
• "Promote and support coordination and collaboration to achieve integrated geospatial information management and leverage it as a decision and sustainable solutions to national needs and opportunities."

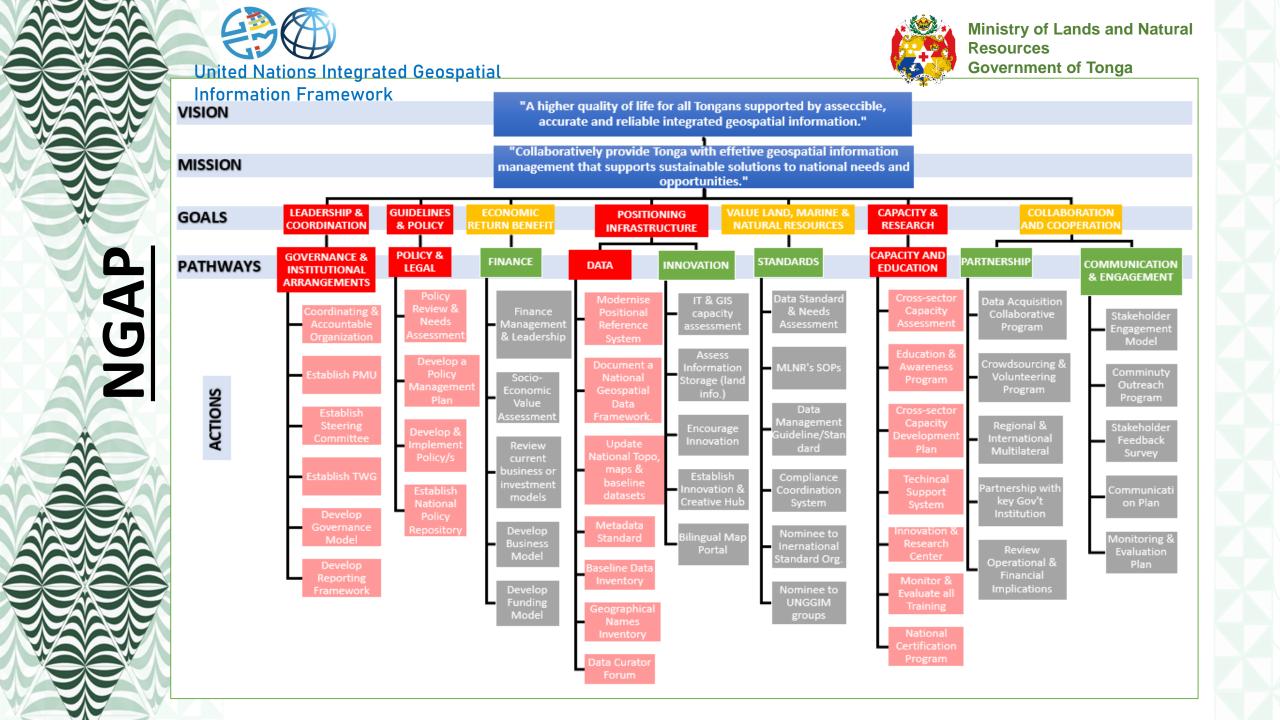






- Establish leadership and coordination necessary to deliver and manage effective integrated geospatial information by 2022 - 2024
- To develop geospatial guidelines, responsibilities and policy framework by 2022-2026 to promote data standards, sharing and accessibility.
- To provide accurate, reliable, timely, accessible and fitfor-purpose integrated geospatial information for all users throughout Tonga.
- 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.









TONGA PRIORITY PATHWAYS

Based on Stakeholder Workshops and Baseline Survey conducted, the following pathways were identified as a priority:

Pathway 1 - Governance & Institutional Arrangements

Pathway 2 - Policy & Legal

Pathway 4 - Data

Pathway 7 - Capacity Building

		their Roles and Responsibilities			
	Strategic Pathway	Implementing Agency	Stakeholder	Leading Agency	Co-Lead
		MLNR	MLNR	MLNR - LGIS	N
	SP1: Governance and Institutions	Public Service Commission	MEIDECC		
		Prime Minister's Office	MOI		
			MAFF		
			Tonga Statistics Department		
	SP2: Policy and Legal	MOJ		MLNR • LGIS & CSD	MOJ
	or 2.11 only and tegar	Policy/Legal Consultant from TWG, LGIS and PMU	Compliance/Policy Officers of organizations that generate and are curator of data		
		TWG, PMU and LGIS	MOF	MLNR - LGIS	MOF
\gg	SP3: Finance		Cabinet		
\sim	3F3, Fillalice		Partner key organizations		
			UN (donors)		
		MLNR	MLNR	MLNR - LGIS	
		MOI	His Majesty's Armed Forces		
		MEIDECC	Civil Aviation		
		MAFF	Marine and Ports		
	SP4: Data	Tonga Statistics	Civil Society Organizations		
		Fisheries	Public Enterprises		
		Public Enterprises	Private Enterprises		
			Non-Profit Organizations		
			Government Departments who are significant users of geospatial information		
AA		MLNR	MLNR	MLNR • LGIS & CSD	MEIDECC - Comm & Info Division
X		MEIDECC	Forestry Dept		Trade and Commerce - Marketing & Innovat
AA	SP5: Innovation	Trade and Commerce	Statistics		,
		MAFF	HMAF		
		Fisheries	Government Departments who are significant users of geospatial information		
		MLNR	MLNR	MLNR • LGIS & Survey & National Spatial Planning	Tonga Statistics
		NEMO-MEIDECC	MAFF	ment cars a sorrey arradonal spatial rialling	ronga seatistics
		MOI	Fisheries		
	SP6: Standards	TSDF	Public Enterprises		
		1301	Non-Profit Organizations		
22			Government and non-government organizations who are significant users of geospatial information		
		MLNR	UNGGIM	MLNR	
		Public Enterprises	SOPAC	MLIAU	
V		MIA	SPREP		
*	SP7: Partnership	Civil Society Organizations	LINZ		
	St 7.1 at the Iship	MEIDECC	Earth Oservations		
		Foreign Affairs	Government and non-government organizations who are significant users of geospatial information		
		TWB	dovernment and non-government organizations who are significant users of geospatial information		
		MLNR	MLNR	MLNR - LGIS & Survey	Ministry of Education
		Tonga Statistics	HMAF	WILTUR - LOIS & SUIVEY	WITH SALY OF ECOCATION
		_			
	SP8: Capacity and Education	Ministry of Education and Training	CSO MPE		
			Private Enterprises		
		MLNR	NGO and GOVT dept who are significant users of geospatial information	MLNR - LGIS	MEIDECC Common loss Divisions
			All Stakeholders	MLNK • LGIS	MEIDECC - Comm & Info Division
	CDO: Communication and France	TWG, PMU and LGIS	TBC		
	SP9: Communication and Engagement		Private and Public agencies		
			Ra dio Tonga		
			Other media outlets		





Pathway 1 - Governance & Institutional Arrangements

- SDG Data Alliance supports and recommends SDG Data Hubs with implementation approach as follows:
 - Plan: Learn about SDG Data Hub, engage with stakeholders, form a project team, and potentially a working group to provide Governance.
 - Assess and Design: Working with Stakeholders, assess national priorities, and availability of data to determine the first SDGs that the hub will focus on. Agree on SDG Data Hub governance and data sharing arrangements.
 - Deliver
 - Grow





Con't GOVERNANCE & INSTITUTIONAL ARRANGEMENTS.

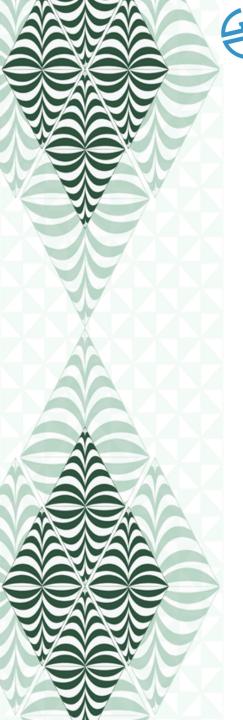
- CD Concept paper to establish Tonga SDG Task Force and TOR has been approved by the Cabinet.(PMO
- Establish Technical Committee to focus on Strengthening data capacities including data collection system, monitoring and analysis among line Ministries & key stakeholders.





Pathway 2 – POLICY & LEGAL

- Model Legislation for Geospatial Information
 Management Legislation
- Geospatial Information Management Policy
- Annotated Geospatial Information Sharing
 Agreement



Pathway 4 - DATA



- 'Availability of High Quality Data is so critical for decision makers to understand where investments can have the greatest impacts' (Antonio Guterres, UN Secretary General).
- SDG Data Alliance supports to establishing National SDG Data Hub Platform: To enable monitoring of achievement of the SDGs by goal, target and indicators (Source: SDG Data Alliance).
- SDG Data Hub Solution Template is configured using ArcGIS Online that organizes people, Data and Tools to accomplish initiatives and goals.
- ESRI GIS Technology grant a professional packages for a country deployment(remoted/or on-site) included:
 - ❖ 2 ArcGIS Desktops Advanced Licenses + Non royalty Bearing Extensions
 - ❖ 1 ArcGIS Enterprise Advanced + Non royalty Bearing Server Roles
 - ❖ 5 ArcGIS Online Creator named users
 - ❖ 10,000 ArcGIS Online Service Credits
 - 2 insights for ArcGIS
 - ❖ Access number of Global Data sets via ArcGIS Living Atlas
 - Capacity Building opportunities



PATHWAY 7: CAPACITY BUILDING Resources Government of Tonga

a.Support career opportunities in geospatial related academic fields (Geophysicist, Geologist, GIS analysts, Environmental analyst, etc.).

Ministry of Lands and Natural

- **b.Establish a research centre** to build data analyst capacity, data science and data management.
- c. Enhance in-country imagery capturing techniques, processing, storage, etc.



	Year			1st Year - 2023			2nd Year - 2024 Jan- Apr- Jul- Oct-			3rd Year - 2025 Jan- Apr- Jul- Oct-			4th Year - 2026			5th Year - 2027 Jan- Apr- Jul- Oct-						
	1001																					
		Yearly Quarters	Mar	Jun	Sept		Mar	Jun	Sept	Dec		Jun	Sept	Dec		Jun	Sept	Dec	:	Jun	Sept	Dec
	1	Governance & IAs															-				-	
STRATEGIC PATHWAYS	2	Policy & Legal																				
	3	Financial									 -								 			
	4	Data																				
	5	Standards																				
	6	Innovation																				
	7	Partnership																				
	8	Capacity & Education																				
I	9	Communication & Engagement																				



Duration of Implementation



Table 1: Implementation schedule of the Action Plan





CURRENT TONGA NGAP

- The Minister and CEO of the Ministry Lands and Natural Resources has approved.
- Final NGAP preparation for Cabinet Submission
 - Amending of booklet layout (Tonga GIS Team)
 - Cabinet Submission had been drafted.
- Continuous virtual Meetings with the UN consultants
- COMPLETED NGAP Reviews
- COMPLETED first phase of planning & developing NGAP
 - 3 Stakeholder workshops (2019, 2020,2021)
- Once approved by Cabinet and is made a Legal Document, a Launching will take place.







THANKS FOR LISTENING

ANY QUESTION?