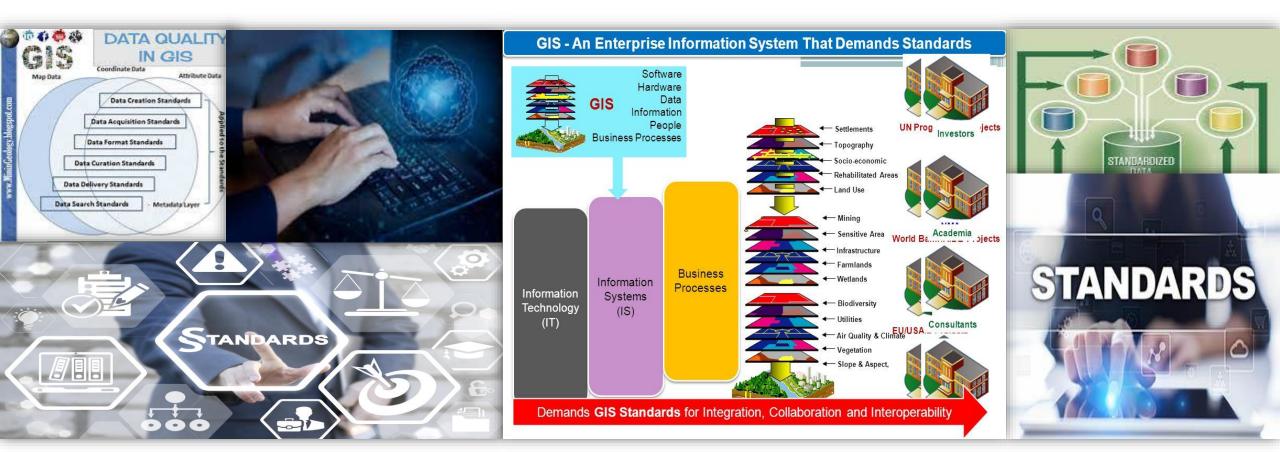
DATA STANDARDS UPDATE

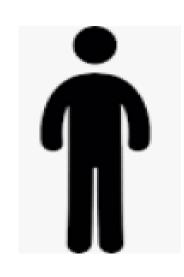
FIJI GEOSPATIAL INFORMATION MANAGEMENT COUNCIL



MANAGEMENT

EFFECTIVE
EFFICIENT
CORRECT and
TIMELY USE

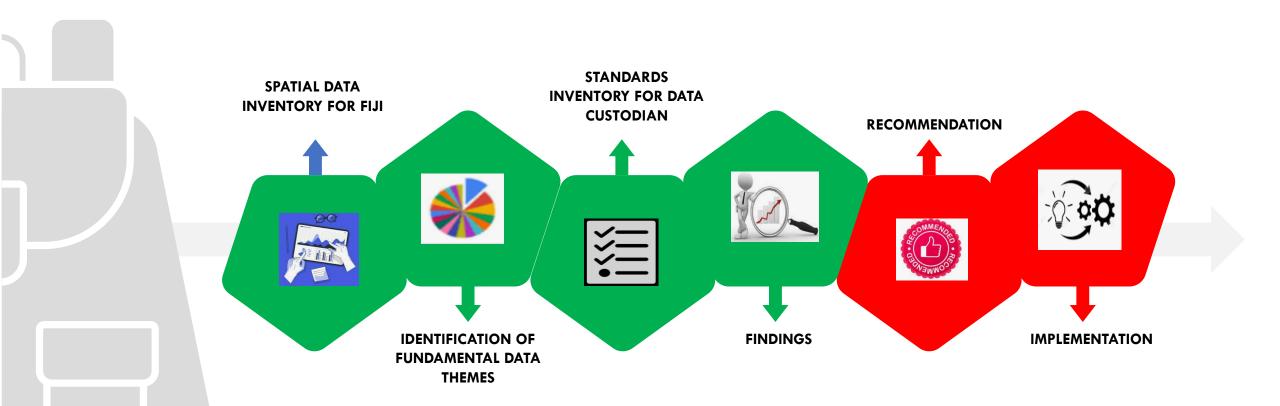
RESOURCES



ADDED VALUE

- We don't own the material
- When we bring it back it should be better

CURRENT WORK PLAN



I. SPATIAL DATA INVENTORY



TABLE

- Showing the various datasets
- Captured and shared with the Data Hub
- and the custodianship information.

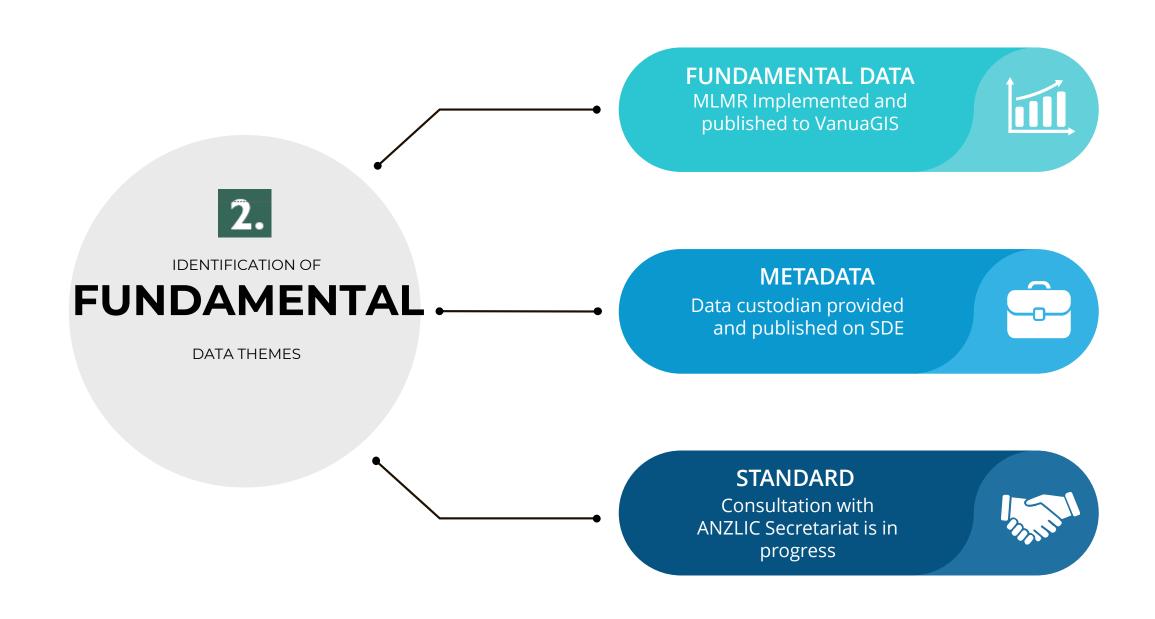
TABLE

- Reflects fundamental spatial datasets and
- All the feature classes assigned to the relevant data themes adopted by FGIMC

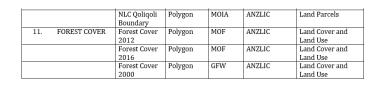
STATUS Completed JUNE 2021

FIJI GEOSPATIAL DATASET REGISTER COUNTRY ACTION PLAN IMPLEMENTATION

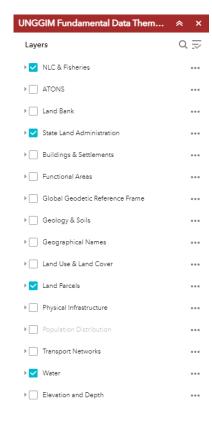
DATASET	FEATURE CLASSES	GEOMETRY	AGENCY	METADATA	FUNDAMENTAL DATA THEMES
1. ADMINISTRATION	Division	Polygon	MOIA	ANZLIC	Functional Areas
	Province	Polygon	MOIA	ANZLIC	Functional Areas
	District	Polygon	MOIA	ANZLIC	Functional Areas
2. AERIAL SURVEY	AAM 1994 Flight Lines	Line	MLMR	ANZLIC	Orthoimagery
	AAM 1994 Photo Points	Point	MLMR	ANZLIC	Orthoimagery
	1978 Flight Lines	Line	MLMR	ANZLIC	Orthoimagery
	1985 Flight Lines	Line	MLMR	ANZLIC	Orthoimagery
	2009 Flight Lines	Line	MLMR	ANZLIC	Orthoimagery
	2010 Flight Lines	Line	MLMR	ANZLIC	Orthoimagery
	1978 Photo	Point	MLMR	ANZLIC	Orthoimagery







		Forest Gain 2001-2017	Polygon	GFW	ANZLIC	Land Cover and
		Forest Loss	Polygon	GFW	ANZLIC	Land Cover and
		2001-2017				Land Use
12.	GEOLOGY	Faults	Line	MLMR	ANZLIC	Geology and Soi
		Folding Lines	Line	MLMR	ANZLIC	Geology and Soi
		Folding Points	Point	MLMR	ANZLIC	Geology and Soi
		Geology	Polygon	MLMR	ANZLIC	Geology and Soi
		Ground Surface	Polygon	NZDF	ANZLIC	Geology and Soi
		Soil	Polygon	MOA	ANZLIC	Geology and Soi
		Strike Dip	Point	MLMR	ANZLIC	Geology and Soi
13.	HARMONISATION	Completed Files	Polygon	MLMR	ANZLIC	Land Parcels
14. ART	HERITAGE AND 'S SITES	Heritage Built	Point	MEHA	ANZLIC	Physical Infrastructure
		Museum	Point	MEHA	ANZLIC	Physical Infrastructure
		Performing Arts Venue	Polygon	MEHA	ANZLIC	Physical Infrastructure
		Social Spaces	Polygon	МЕНА	ANZLIC	Physical Infrastructure
15.	HYDROGRAPHY	Beach	Point	NZDF	ANZLIC	Geographical Names













Functional Areas



Buildings and







Depth



Distribution



and Land Use



Geology and



Infrastructure





2. IDENTIFICATION OF FUNDAMENTAL DATA THEMES

3. STANDARDS INVENTORY FOR DATA CUSTODIANS

DATA THEME

- I. BUILDINGS & SETTLEMENTS
- 2. ELEVATION & DEPTH
- 3. FUNCTIONAL AREAS
- 4. GEOGRAPHICAL NAMES
- 5. GEOLOGY & SOILS
- 6. LAND COVER/ LAND USE
- 7. LAND PARCELS
- 8. ORTHOIMAGERY
- 9. PHYSICAL INFRASTRUCTURE
- 10. POPULATION DISTRIBUTION
- 11. TRANSPORT NETWORKS
- 12. WATER

- Standards was compiled using the following format:
 - Theme Sponsor
 - Committee/Affiliated Organization
 - Description
 - Datasets & Feature Classes
 - Standards Used
 - Geometry
 - Attributes
 - Symbology
 - Dissemination
 - Metadata
 - Surveying Equipment's
 - Processing Software's
 - Mapping Software's

3. STANDARDS INVENTORY FOR DATA CUSTODIANS

TRANSPORT DATA THEME

1. Theme Sponsor

The roads network is captured and distributed by the following data custodians:

- Ministry of Lands and Mineral Resources (MLMR)
- Fiji Roads Authorities (FRA)
- Civil Aviation Authorities (CAAF)
- Maritime Safety Authority of Fiji (MSAF)

2. Committee/Affiliated Organizations

- International Federation of Surveyors (FIG)
- European Petroleum Survey Group (EPSG)
- United Nations Committee of Experts on Global Geospatial Information Management (UNGGIM)
- ISO Geodetic Registry (ISOGR)
- ISO Technical Committee (TC 211)
- Open Geospatial Consortium (OGC)
- International Association of Oil & Gas Producers (IOGP)
- Pacific Geospatial and Surveying Council (PGSC)
- Fiji Institute of Surveyors (FIS)
- Fiji Geospatial Information Management Council (FGIMC)
- National Mapping Committee (dissolved)

3. Description

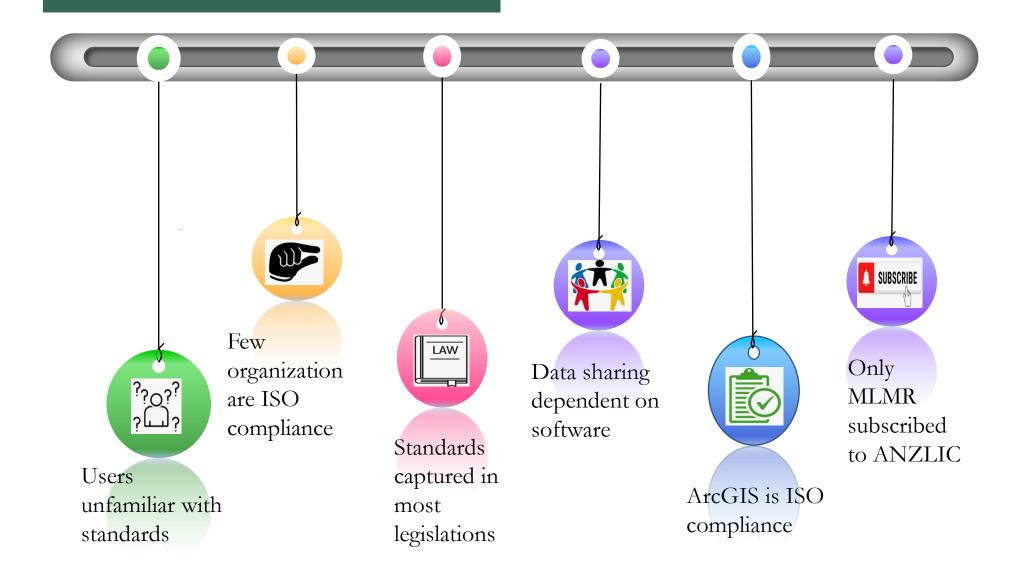
The transportation network provides the link for moving people, goods, and services from one location to another in the form of land, sea, and air transport, Fiji is comprised of two major islands whereby land transport is the most common form of transport whereas the $300\,$ small islands is mostly accommodated with maritime or air transport. Transport datasets is crucial to facilitate the business sector and ensures the services is well distributed across Fiji.

Feature Classes	Description
Topographic Roads	These features were mapped during the National Mapping Program that initiated in 1986 and was completed in 1996 using aerial photographs by Lands Department. The data is represented in line vector format and shows the road names, hierarchy, and length.
2. Surveyed Roads/Roads Realignment	The surveyed roads are basically land parcels dedicated for roads, road reserves and road widening. The roads are represented in polygon for the purpose of area demarcation and shows other parcel information derived from the survey plans.
3. Airport	These features are in vector point format and shows location, operator, type of airdrome and service areas. The data is approved under the Civil Aviation Reform Act – 1999 and is mapped by MLMR.
4. Bridges/Jetties/Roads Assets	jetties are looked after by MSAF. It is mapped in point format and shows the location, adjoining routes, priority, crossing type and status.
5. Tramlines	Tramline data is the property of MLMR which is derived from the National Topographic Map 1986. The data is in line format and only shows the locations and length.

Description	ISO Standard	Supporting Legislation/Act
1. Geometry	i. Surveved Read/Realignment Notice to Surveyors (NTS) Figi Surveyors Act 1969 Figi Surveyors Act 1969 Figi Surveyors Act 202 Amendment 202 Representation of Geographic Points Location by Coordinates (ISO/TC 211) ISO 19101 – 1:2014 – Geographic Information Reference Model Part 1 ISO 19101 – 2: 2018 Geographic Information Reference Model Part 2 Imagery ISO 19103 – 2015 Geographic Information Conceptual Schema Language Topographic Roads Specifications for	New Zealand Mapping Services Royal Australian Survey Corps National Mapping Council of Australia
2. Attributes	Topographic Map Series Roads Name conforms with the Fiji Roads Authority Road Naming Policy The certification for Aerodrome Operators is certified under the Civil	Fiji Roads Decree 2012 None stated for bridges/jetties
3. Symbology	Aviation Reform Act – 1999 Specifications for Topographic Map Series ISO 19117 – Symbology	

5. Metadata	ISO/IEC 2382 - 15 & ISO 19145 - Format AS/NZS ISO 19115 - ANZLIC Metadata Profile Version 1.1	
 Surveying Equipment's 	•	
7. Processing Software's	Arc GIS ISO 19131: 2008 Geographic Information Data product specifications ISO 19133 - Road Network ISO 19107 - Roads Topology ISO 19123 - Vector SO 19109 - Geographic Data ISO 19111 - Geographic Coordinate System	

4. FINDINGS



RECOMMENDATION



RESPONSIBILITIES

Data Custodian to compile and update their datasets standards





DATA CUSTODIAN

Awareness of existing standards

ANZLIC MEMBERSHIP

PGSC to request for ANZLIC partnership



METADATA

All updates will be recorded with metadata in the Data Hub



DATASETS

Record and Publish all historical data for comparison purposes



UPDATE

MLMR to continue updating the data inventory



CONCLUSION

