## **FIJI GIS & RS USER FORUM**

#### Attendees:

Viliame T	MLMR		
Jese L	Ministry of Agriculture		
Kesaia D	MLMR		
Baseva Leba	MLMR		
Afoa K	MLMR		
Joseva V	MLMR		
Lita Uaniceva	MLMR		
Doni Wainiqolo	TLTB		
Ravi Singh	TLTB		
Ethan William	MLMR		
Ponipate Vukunisiga	MLMR		
Qaranivalu L	TLTB		
Ro Veceli Mataitini	TLTB		
Saleshni Kumar	MLMR		
Maraia N	MLMR		
Tarusila Qasevakatini	MLMR		
Jean'ee B	MLMR		
Josefa N	MLMR		
Jonathan V	MLMR		
Salmendra Chand	Drone Works		
Shahil Ram	MLMR		
Vikatoria W	MLMR		
Nanise M	MLMR		
Alivereti	MLMR		
Emilina T	MLMR		
Josua K	MLMR		

## **Agenda Items**

#### 1.0 Welcome & Opening Prayers

- 1.1 The meeting was chaired by Ms. Katarine Manueli with an opening prayer by Ms. Maraia Naulivou
- 1.2 The chairperson welcomed everyone who attended the forum including those joining in Zoom and continued with the day's agenda

#### 2.0 Review of Meeting Minutes & Action Point from Previous Meeting

2.1 This has will be reviewed in the next meeting.

#### 3.0 Presentations

#### 3.1 Maritime Affairs Project by Ms. Salaseini Tagicakibau

- 3.1.1 An introduction was made on the formation of the Maritime Affairs
  Coordinating Committee (MACC) in 1995 following a cabinet decision. MACC
  was created to help enforce the Marine Spaces Act 1997.
- 3.1.2 The Ministry of Foreign Affairs is responsible for & mandated to enforce the Fiji Marine Space Act 1977.
- 3.1.3 Purpose of MACC is to coordinate development and implementations under UNCLOS to protect Fiji's maritime interest & enforce the Fiji Maritime Act 1977 and other relevant national legislation & policies pertaining to Fiji Maritime zones.
- 3.1.4 Current role of MACC is to delineate maritime boundaries, Finalize Fiji's Continental Shelf (ECS) claims, Clearance of submarine cables, negotiate maritime related treaties & PIF Level Sea Level Rise Framework
- 3.1.5 The presenter also mentioned the importance of GIS to MACC for mapping of maritime boundaries & ECS claims, this maps must accompany submissions to UN-DOALOS for it to be considered. Furthermore, maps help visualize claims.
- 3.1.6 Achievements made by MACC are 1. Concluded boundary treaties with Tuvalu, France (Wallis & Futuna) & Solomon Islands. 2. Deposit geographical coordinates & Maritime boundaries treaties with UNDOALOS. 3. Submitted a partial submission for the South Fiji Basin. 4. Negotiated draft BBNJ Agreement.

#### 3.2 National Land Use Master Plan for iTaukei Land by Mr. Doni Wainiqolo

- 3.2.1 The presenter began with an insight into why there was a need for planning which sets the basis for why TLTB has now shifted its operational operandi, bringing planning to the forefront.
- 3.2.2 Some of the key issues in poor planning the presenter mentioned was weak governance poor planning practices resulting in increasing cost of damages from natural disaster e.g., from Cyclone Winston.
- 3.2.3 The presenter highlighted TLTB core roles which are 1. To control & manage iTaukei land by way of leases & licenses. 2. To collect & distribute premiums & rents derived from leased land. 3. To ensure that sufficient land is reserved for the use, maintenance & support of its owner.
- 3.2.4 The board also utilizes GIS mobile applications for field workers to collect data relevant to planning. This includes ArcGIS Survey 123, Explorer for ArcGIS, ArcGIS Field Maps, Collector for ArcGIS & Quick Capture.
- 3.2.5 The presenter also highlighted the hierarchy of land use planning beginning at regional level, to District level and further down to the land-owning units (LOU) i.e., Matagali/Yayusa.
- 3.2.6 Further to using GIS for field work collection TLTB also have generated baseline maps that is important before finalizing the Land Use Master Plan. This includes topographic slope & DEM maps, Economic Enabling Environment Map, Soil suitability maps, Household density & business maps, Agricultural Productivity Maps, LOU Analysis per District maps etc.

#### 3.3 Regional Tide Monitoring by Mr. Zulfikar Begg

- 3.3.1 The presenter began by highlighting that tides are cause by the sun's & moon gravitational pull.
- 3.3.2 Mr. Begg mentioned the different types of equipment that is used to measure tide levels to gain a better understanding on its trend to determine sea level rise. In addition to the tide stations, they also need to how the land is moving in the locality the tide gauge is deployed.
- 3.3.3 The Tide Gauges measure storm surges, astronomical tide & oscillation. Waves are measured using wave buoys.
- 3.3.4 The presenter also mentioned how global tide models are developed for & from satellite altimetry to know the times of high tide & low tides.
- 3.3.5 COSPPac Data can be accessed by sending an email to them. The data includes sea level rise, temperature, pressure data (display only). Annual tide prediction for 25 sites. There is also a mobile App available on Playstore called Pacific Tides.

Near Real-Time data can be accessed & downloaded here: www.bom.gov.au/cosppac/rtdd/g1c7o0hj48yu/

3.3.6 The presenter also iterated the importance of collecting this data in relation to Climate Change.

# 4.0 <u>Understanding the Air Navigation Regulations for RPAS (Drone)</u> Operations by Salmendra

- 4.0.1 The presenter talked about the safety foundation & the guidelines/regulation of UA's.
- 4.0.2 One of these features includes the weight categories or more specifically Maximum Take-Off Mass (MTOM). The risk of injuries increases with increasing weight & therefore operational limitations and technical requirement tend to increase proportionally for heavier categories.
- 4.0.3 The second feature is the proximity to people. Generally, flight over uninvolved persons is permitted only with small UA's i.e. less than 250g. As wight categories increase so does the minimum horizontal separation from uninvolved persons.
- 4.0.4 Other regulations include Maximum Flight Altitude, Line of Sight, Carriage of person & dangerous goods.
- 4.0.5 The presenter also talked on the Standard Operating Procedure beginning from training the pilots. These pilots will need to pass a certification exam in order to get a license. In addition to obtaining a license pilots need to follow the rules & guidelines mentioned earlier e.g. Keeping drones within line of sight, avoid flying to restricted airspace such as Military Base, maintain safe distance from people/buildings & other objects.

#### 5.0 Secretarial & Organizational Updates

- 5.1 The secretary will update everyone in the next meeting, Also the time & venue of the next meetup will be circulated to everyone via email.
- 5.2 Organizational updates

Organization	Updates			
Drone Works	Conducted drone training in the Solomon Islands.			
MLMR	FGIMC has endorsed the UNGGIM Country Action Plan			
	ArcGIS Enterprise license for the whole of government			
	Topographic maps have been updates			
	<ul> <li>Final stages of Fiji Water Yaqara project to generate 5m interval contours</li> </ul>			
	Digitization of all adhoc by Mapshop			

### 6.0 Closing

6.0.1 The chairperson thanked those attending in person & also virtually. The meeting concluded at 12.45pm.

Mr. Josua Koto

**Secretary** 

Ms. Katarine Manueli

Chairperson

Danl .