FIG WORKING WEEK 2017
Surveying the world of tomorrow - Helsinki Finland 29 May - 2 June 2017
From digitalisation to augmented reality

BULA

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WHERE IS FIJI

- Lat 17° 45’ S, Long 175° 00’ E
- Population – 858,038
- Land Area – 18,274 sq km (300+ islands)
  - iTaukei land – 16,081 sq km (88%)
  - Freehold – 1,462 sq km (8%)
  - State land – 731 sq km (4%)
GGRF in the Pacific Island Countries

31 May 2017
Helsinki, Finland

Asakaia Tabua
Principal Surveyor
Ministry of Lands & Mineral Resources
Fiji

Surveying the world of tomorrow - From digitalisation to augmented reality
The UN-GGIM Roadmap...

In February 2015 the UN General Assembly adopted the resolution “A Global Geodetic Reference Frame for Sustainable Development” - the first resolution recognizing the importance of a globally-coordinated approach to geodesy.

As per UN Resolution A/69/L.53

In the Pacific...Australia, Fiji, New Zealand, Papua New Guinea, Samoa, Solomon Islands, Tuvalu, Vanuatu
Why is it Important?

- Surveying & Geospatial Data is underpinned by the Reference Frame
- Land Development
- Land Administration
- Natural Disaster
- Climate Change
- Sea Level Rise
Most Pacific Islands countries’s reference frame are base on local reference frame. Some are outdated.
THE DEFINITION AND ADJUSTMENT OF THE FIJI
GEODETIC DATUM -1986
J. Hannah and J. Maseyk
Department of Survey and Land Information, Wellington, New Zealand

Fiji Map Grid (FMG1986) is based on the Gauss-Krüger Transverse Mercator projection where:

- Latitude of Origin = 17° 00' South
- Central Meridian = 178° 45' East
- Scale Factor at Origin = 0.999854
- False Northing = 4 000 000m
- False Easting = 2 000 000m
- Ellipsoid of reference = WGS 72
  where \( a = 6378135m \)
  \( 1/f = 298.26 \)
Tonga Geodetic Reference TGD2005
In order to fully utilize new survey technology, we need to have our base right.
Pacific Geospatial & Surveying Council (PGSC)

- Independent regional body advancing geospatial and surveying standards and capacity
- Established in the margins of the 2014 GIS/RS User Conference
- Governed by the PGSC Charter endorsed by 11 Pacific Island governments
- Supported by PGSC Partnership Desk (SPC)

For more info, visit: [http://gsd.spc.int/pgsc/](http://gsd.spc.int/pgsc/)
Sustainable development in the Pacific enabled by world class geospatial information and surveying services.
WHY COLLABORATION IS IMPORTANT

- United Nations General Assembly: 11th March 2015
  - Resolution 69/266 – A global geodetic reference frame for sustainable development; in its 80th plenary meeting held 26th February 2015
- Cabinet Paper - CP(15) 169 29th August 2015
- Cabinet Decision 207 – Modernising Fiji’s Geodetic Datum; 29th August 2015
THANK YOU