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 based on local reference frame. Some are outdated.
Fiji Island Geodetic Reference Frame

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 Gaussian-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 \( a = 6378135m \)
  \( 1/f = 298.26 \)
In order to fully utilize new survey technology, we need to have our base right first.
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/
Sustainable development in the Pacific enabled by world class geospatial information and surveying services.
WHY COLLABORATION IS IMPORTANT

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