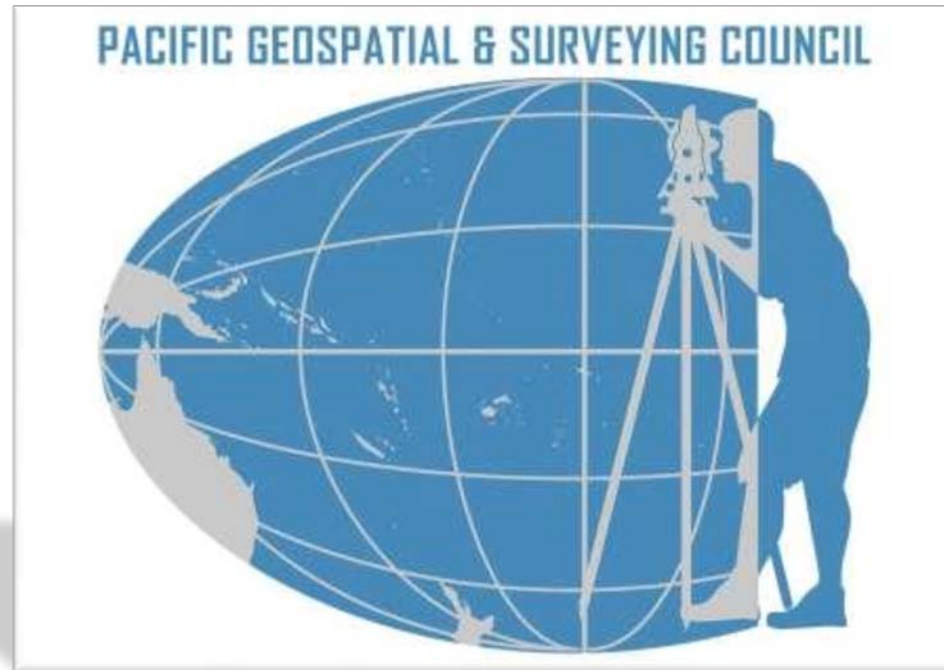


# Pacific Geospatial and Surveying Council (PGSC)



Geospatial and GNSS CORS Infrastructure Forum.  
*Kuala Lumpur 16-17 October*



UN-GGIM  
UNITED NATIONS  
COMMITTEE OF EXPERTS ON  
GLOBAL GEOSPATIAL  
INFORMATION MANAGEMENT



# Outline

- Beginning and Progress
- Members
- PGSC Charter
- PGSC Strategy 2017-2027
- Meetings
- Geodetic Infrastructure and Resources
- Challenges
- Way Forward



# Beginning

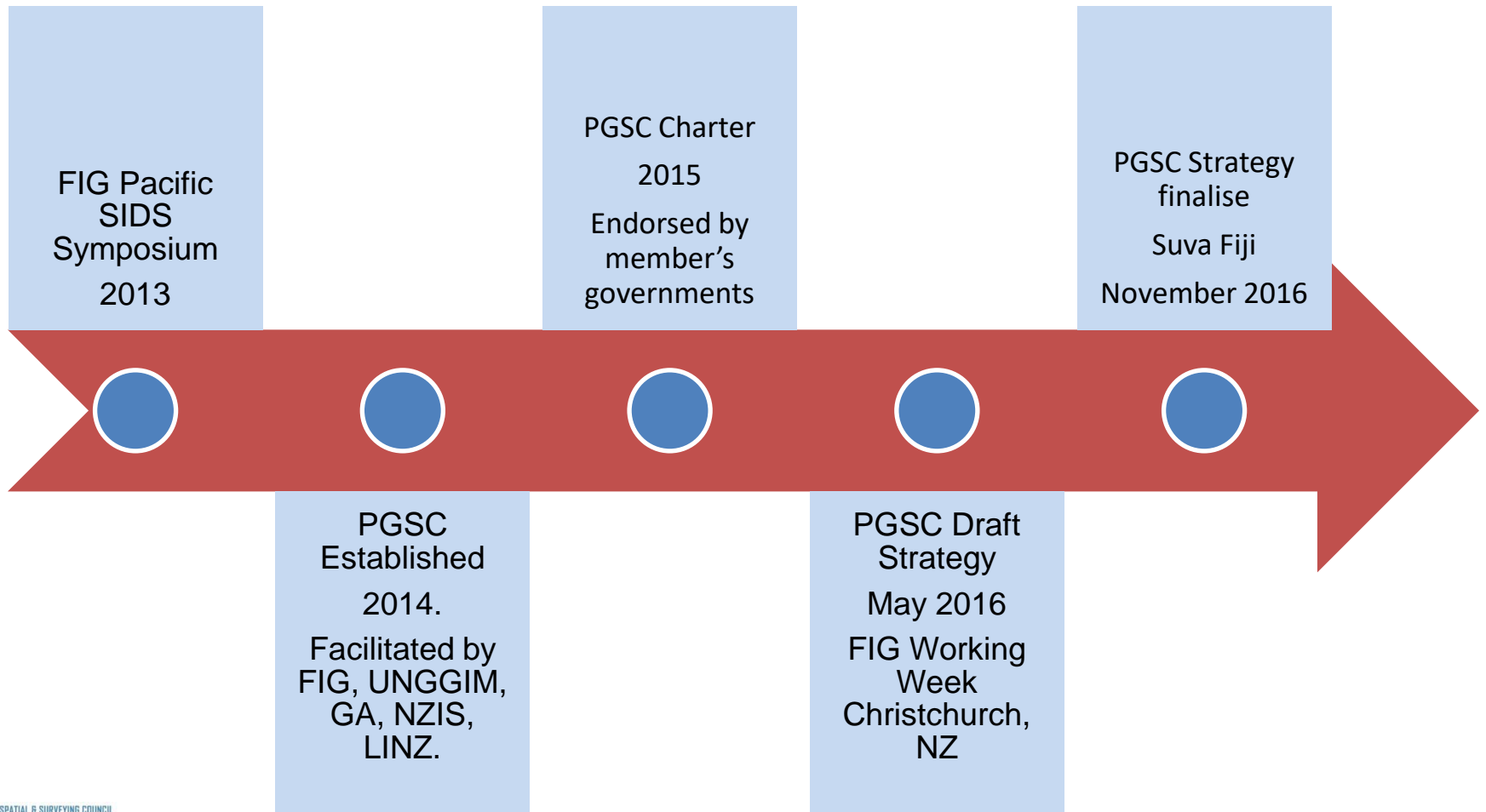
- FIG Pacific Island Developing States Symposium 2013



- 2014 PGSC was formed



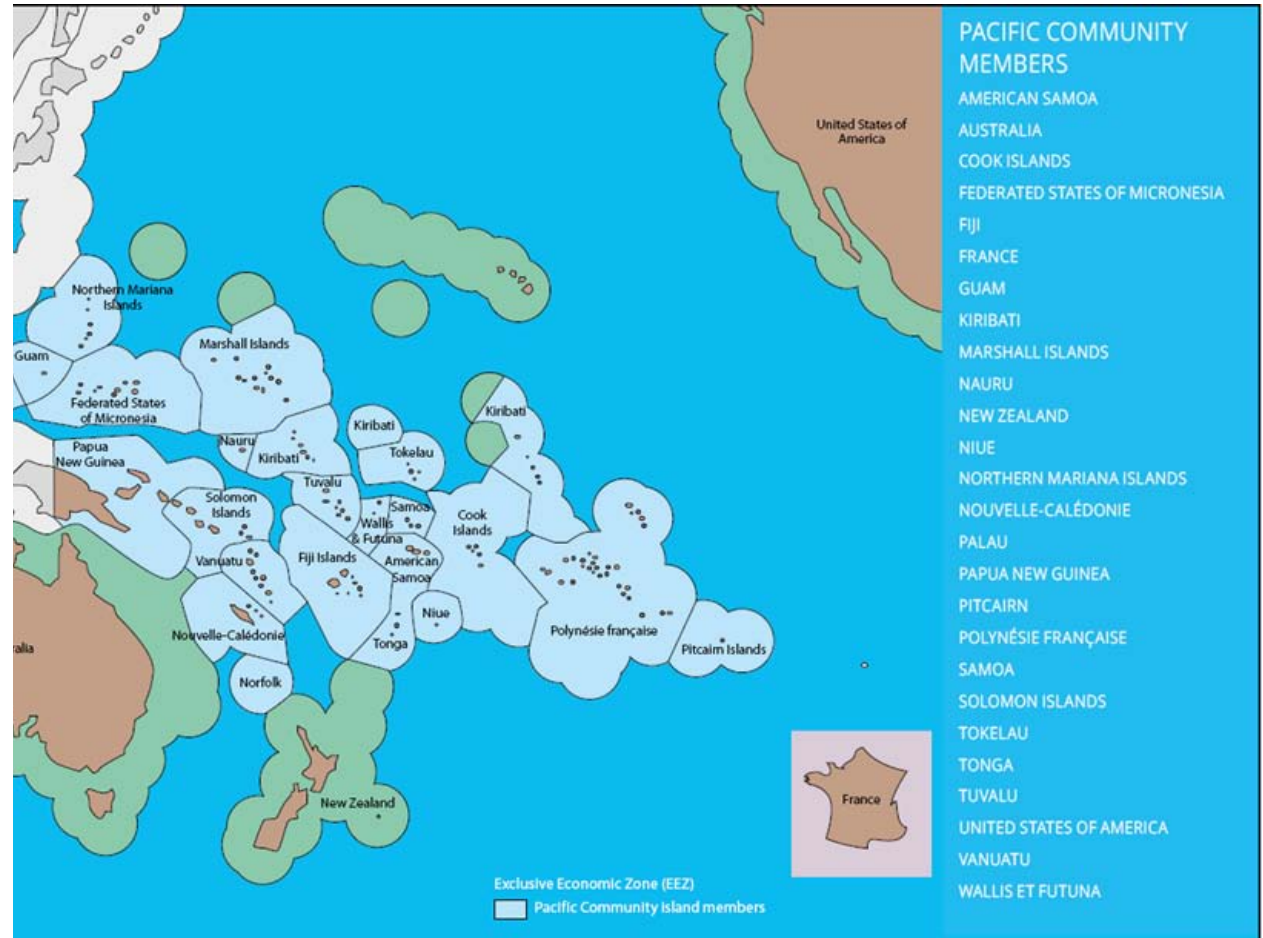
# Progress





# Members

- Cook Islands
- FSM
- Fiji
- Kiribati
- Nauru
- Niue
- Marshal Island
- PNG
- Palau
- Samoa
- Solomon Island
- Tonga
- Tuvalu
- Vanuatu



**REGIONAL MAP** (Actual map used should highlight current and potential PGSC members)

# PGSC Charter

- Vision:  
Sustainable development in the Pacific enabled by world class geospatial information and surveying services
- Mission:  
The PGSC will provide a regional network and forum for the geospatial information and survey authorities of Pacific Island Countries and Territories (PICTs)
- Secretariat:  
The Secretariat of the Pacific Community (SPC) shall provide secretariat and technical support for the Council through the Pacific Geospatial and Surveying Partnership Desk (PGSPD)



# Charter....

- Purpose of the Council:
  - foster and support the network of surveying and geospatial operators of the PICTs
  - promote and support capacity building of surveyors in the region
  - facilitate dialogue and cooperation between member countries on unified regional approaches to geodetic and geospatial information and infrastructure management
  - facilitate dialogue and cooperation with donor agencies and educational institutions and create opportunities for surveying and geospatial authorities of the PICTs
  - raise awareness with governments of PICTs of the role of surveying and geospatial information in sustainable development and to provide a platform for national geospatial information authorities to actively contribute to sustainable development discussions and activities
  - support the initiative of the United Nations to implement global mechanisms to foster geospatial information management and the development of pro-poor gender sensitive scalable land tools.

# Charter.....

- Purpose of the Council.....
  - provide advice and feedback to the direction and work plan of the SPC Geoscience Division
  - develop and support national and regional strategies, and the implementation of frameworks and legislation to combat common geospatial challenges faced by the PICTs
  - facilitate the exchange of resources, information and experience amongst stakeholders, in key areas such as technical developments, information management and survey techniques
  - support the sharing of personnel and equipment to aid in survey activities and data management, but without interference in the national responsibilities of each survey office
  - promote the role of the geodetic surveyor or geospatial scientist in the administration of, and planning for, land and marine environments to PICTs organisations
  - abstain from any interference in questions of a political, racial or religious nature not permit any of its activities to be influenced by statements or actions of a political, social or religious nature





# GEOSPATIAL AND SURVEYING STRATEGY 2017-2027

Positioning Pacific Island countries and Territories for the Future



*To be finalised in the PGSC meeting November 2016*

# Strategy continue

- The strategy aims:
  1. To demonstrate the critical nature of geospatial information and services and the development of these services in the Pacific region;
  2. To articulate the aspirations of the region's geospatial and surveying professionals in advancing capacity within the region and;
  3. Importantly, to serve as an entry point for engagement with internal and external partners.

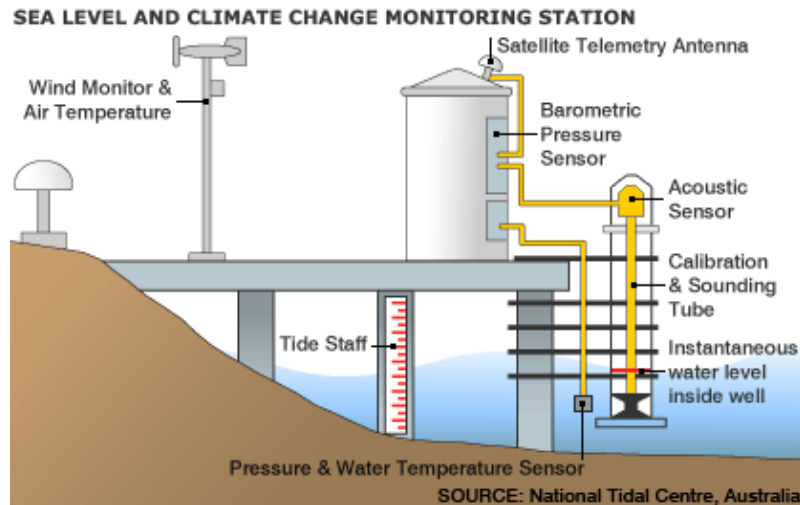


# Strategy continue

- Vision:  
Sustainable development in the Pacific enabled by world class geospatial information and surveying services
- Goals:
  1. The PGSC enables regional leadership, direction and support for member states to engage stakeholders and the community on geospatial and surveying activities.
  2. Countries across the region adopt a modern Geodetic Reference Frame (GRF) and technology underpinning geospatial systems and applications.
  3. Geospatial and surveying activities at the national and regional level are supported by a diverse and sustainable resource base.
  4. The geospatial and surveying community is self-reliant with a culture supportive of learning innovation and gender equity.

# Geodetic Infrastructures and Resources

- Pacific Sea Level Monitoring Project
  1. Tide Gauges



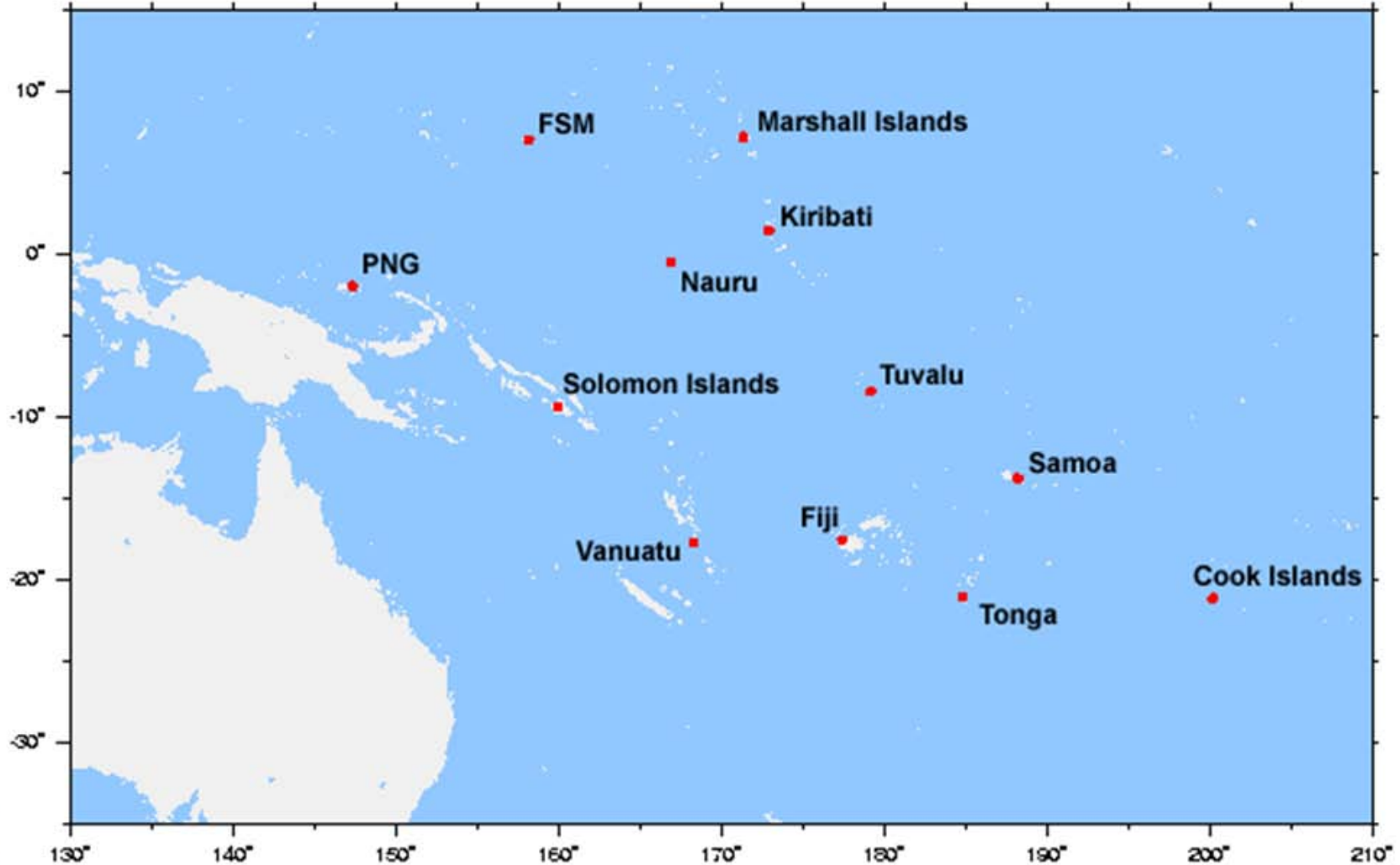
# Geodetic Infrastructure and Resources

## 2. CORS Stations





# Tide Gauges and CORS in Pacific Islands



# PGSC Ongoing Project

- Capacity Mapping of all members
  - Current status of survey equipments
  - Human resources
  - Level of expertise
  - Educational qualifications
  - Identify each members needs.
- Provide a baseline information on each island members before there can be a moving together forward.

# Challenges-PGSC

1. People in the pacific island are one of the most vulnerable to climate change and natural disasters.
2. Lack of awareness on the vital roles surveyors, geospatial information, and land professionals play in addressing issue s of climate change, sea level rise, disaster preparedness, recovery, and reconstruction, resilience and sustainable development.
3. Modern geodetic references and vertical reference frames for pacific islands.
4. Lack of well trained surveyors or experience surveyors are approaching retirement age.
5. Limited opportunities for formal surveying education, and scholarships.

# Challenges....

6. Limited knowledge and experience in geodetic survey.
7. Some island still have their cadastral information in paper format.
8. Getting members to meet face to face.
9. Lack of proper policies and legal framework nationally for geodetic infrastructure and geospatial information.
10. Unable to keep up with modern developments in surveying and geospatial technologies.
11. Utilising nationally the existing Tide gauges and CORS stations to update geodetic and vertical reference frame.
12. Funding available for PGSC to create regional and national projects.

# Way Forwards

1. Collaboration, Partnership, and Networking
  - Improve collaboration with international organisation (FIG/ UNGGIM-AP/GA/NZIS), donor agencies (AusAid, NZAid, World Bank etc.) educational institutions (University of the South Pacific (USP), Fiji National University (FNU), Otago University, institutions in Asia Pacific etc.
  - Promote close collaboration between National Lands and Survey Departments.
- ii. Building Capacity in surveying and geospatial services.
  - Surveying scholarships
  - Short-term trainings
  - Work attachments and internship.
- iii. Getting national government on board on the significance of geodetic infrastructure and geospatial information. Political will and support.





# 2015 PGSC Meeting, Suva.



Vinaka Vaka Levu  
Fa'afetai Tele  
Tangkiu Tumas  
Malo 'Aupito  
Thank you very much

PACIFIC GEOSPATIAL & SURVEYING COUNCIL

