



Pacific
Community
Communauté
du Pacifique



Pacific Geospatial and Surveying Council

12th UN-GGIM AP Plenary Meeting
Bali, Indonesia

Mr Asakaia Tabua

Pacific Geospatial & Surveying Council (PGSC)

Email: pgsc_desk@spc.int

<http://pgsc.gem.spc.int/>

What is the PGSC?

- The Pacific Geospatial and Surveying Council
- **Independent regional body** advancing geospatial and surveying standards and capacity
- Established in the margins of the Pacific GIS/RS User Conference in November 2014
- Governed by the **PGSC Charter** endorsed by 11 Pacific Island governments
- Implementing and monitoring progress against the **PGSC Strategy (2017-2027)**
- Supported by **PGSC Partnership Desk** (GEM Division SPC)



4th PGSC Meeting 2018– Tonga



Chair Ms Rosamond Bing, CEO - Ministry of Lands and Natural Resources (Tonga)

Vice-Chair Ms Meizyanne Hicks, Manager Geospatial - Ministry of Lands and Mineral Resources (Fiji)

5th PGSC Meeting 2020– Virtual



The 5th Pacific Geospatial & Surveying Council Meeting

11-12 August 2020- Open Participation

- Formal opening
- Regional updates and emerging issues

13-14 August 2020- Members Only

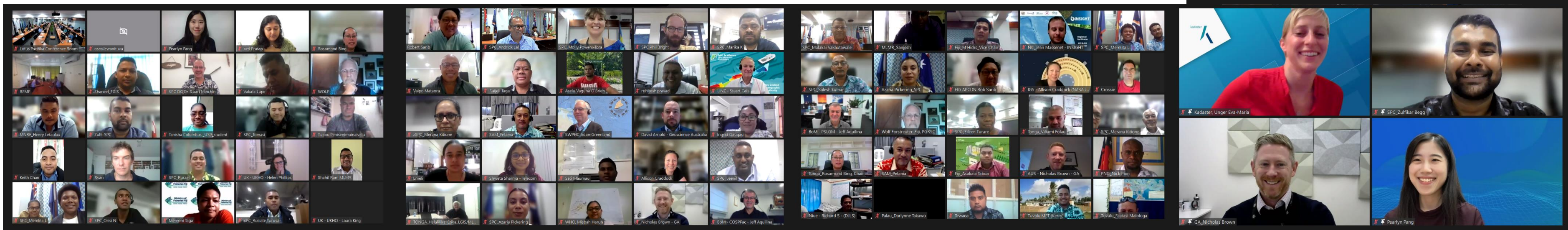
- PGSC business and governance

Invitations, agenda, and details to follow
Contact pgsc_desk@spc.int with queries



PGSC Plenary Session 2022

- Review of PGSC Strategy (2017 – 2027)
- Pacific Geospatial Women Network
- PGSC Working Groups
- PGSC Support and the Partnership Desk
- UN-GGIM IGIF Country Action Plan (Fiji and Tonga)



PGSC Charter

- Drafted by committee in 2014 at inaugural PGSC meeting
- Endorsed by 11 Pacific Governments at Ministerial Level in 2015-2016
- Endorsed by Fiji at Cabinet Level in 2016

GOVERNEMENT DE LA REPUBLIQUE
DU VANUATU SERVICE DES TERRES,
SERVICE TOPOGRAPHIQUE,
REGISTREMENT DES HYPOTHEQUES

SAC POSTAL RESERVE 9090
PORT VILA
TELEPHONE: (678) 22892
FAX: (678) 22708
E-MAIL: lands@vanuatu.gov.vu

GOVERNMENT OF THE
REPUBLIC OF VANUATU
DEPARTMENT OF LANDS, LAND
SURVEY AND LAND REGISTRY

PRIVATE MAIL BAG 9090
PORT VILA
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29th April 2015

HON. RALPH REGENVANU
MINISTER OF LANDS & NATURAL RESOURCES

Re: Seeking Endorsement of Pacific Geospatial and Surveying Council Charter

Dear Hon. Minister,

As geospatial technology has improved over the last few decades, Pacific governments have come to rely more and more upon accurate mapping to inform decision-making around the issues of coastal development, natural resource management, disaster risk reduction and climate change adaptation. In order to continue to improve these services, it is critical that our regional geospatial resources are further developed.

At last year's Geographic Information Systems/ Remote Sensing Conference in Suva (November 23-27), lands and ocean survey representatives from across the Pacific gathered to discuss and outline a strategy for advancing geospatial information and improving collaboration and coordination of activities in the region.

One of the key outcomes of this meeting was the resolution to establish a regional body of surveyors- the Pacific Geospatial and Surveying Council (PGSC). The purpose of such a regional body is to address regional challenges, such as training and capacity building, as well as to further development and standardisation of geospatial information gathering, dissemination, and application. This resolution has been a long time in the making and was, in fact, one of the recommendations from the Pacific FIG (International Surveyors Federation) Symposium in 2013, in a document called *'The Suva Statement on Spatially Responsible Governance.'*


Honorable Minister, a copy of the proposed PGSC Charter is attached for your review and endorsement.


Recommendations:


1. That the Pacific Geospatial and Surveying Council (PGSC) Charter be endorsed.
2. That Martin Sokomanu, Surveyor General, be appointed as representative of Vanuatu to the Pacific Geospatial and Surveying Council.
3. That your decisions on (1) and (2) above be relayed to the Secretary General of the Pacific Geospatial and Surveying Council.


Please feel free to contact me with any concerns, questions or suggestions regarding this document. I look forward to your positive response and appreciate the opportunity to represent Vanuatu as we lead this important regional initiative.


Sincerely,


Martin Sokomanu
Surveyor General

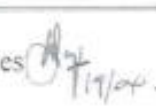


Endorsed by: 
Ralph Regenvanu
Minister of Lands and Natural Resources




Office of the Prime Minister

MEMORANDUM

To: Permanent Secretary for Lands and Mineral Resources 


From: Secretary to the Cabinet

Date: 18 April 2016

Subject: Cabinet Decision

Enclosed please find Cabinet Decision No.78 on the subject of *Pacific Geospatial and Surveying Council* for insertion in File No. 1/1/2686 or in an appropriate file.

Please acknowledge receipt.


M. Lotawa (Ms)
for Secretary to the Cabinet

Enc

TONGA

SAMOA

CP (2016): Written Opinion
Date: 13/04/16

SOLOMON ISLANDS


FSM

78. Pacific Geospatial and Surveying Council - 1/1/2686 CP(16)61

Cabinet, by Wri **KIRIBATI**

(i) agreed that Fiji endorse the Pacific Geospatial and Surveying Council Charter, and become a member of the Pacific Geospatial and Surveying Council.

MARSHALL ISLANDS


Susan Kiran (Ms)
Secretary to the Cabinet

FIJI

PGSC Charter

Outlines

- **Membership**
 - Core Member (countries lands & survey, geospatial, hydrographic professionals)
 - Observer (organisation, institution)
 - Expert Contributor
- **Meetings**
 - Every 1-2 years
- **Working Groups**
 - May be established to address technical issue or conduct specific activity
- **Responsibilities of Chair/ Vice Chair**
- **Administration & Governance**
 - Governed by members

VISION

Sustainable development in the Pacific enabled by world class geospatial information and surveying services

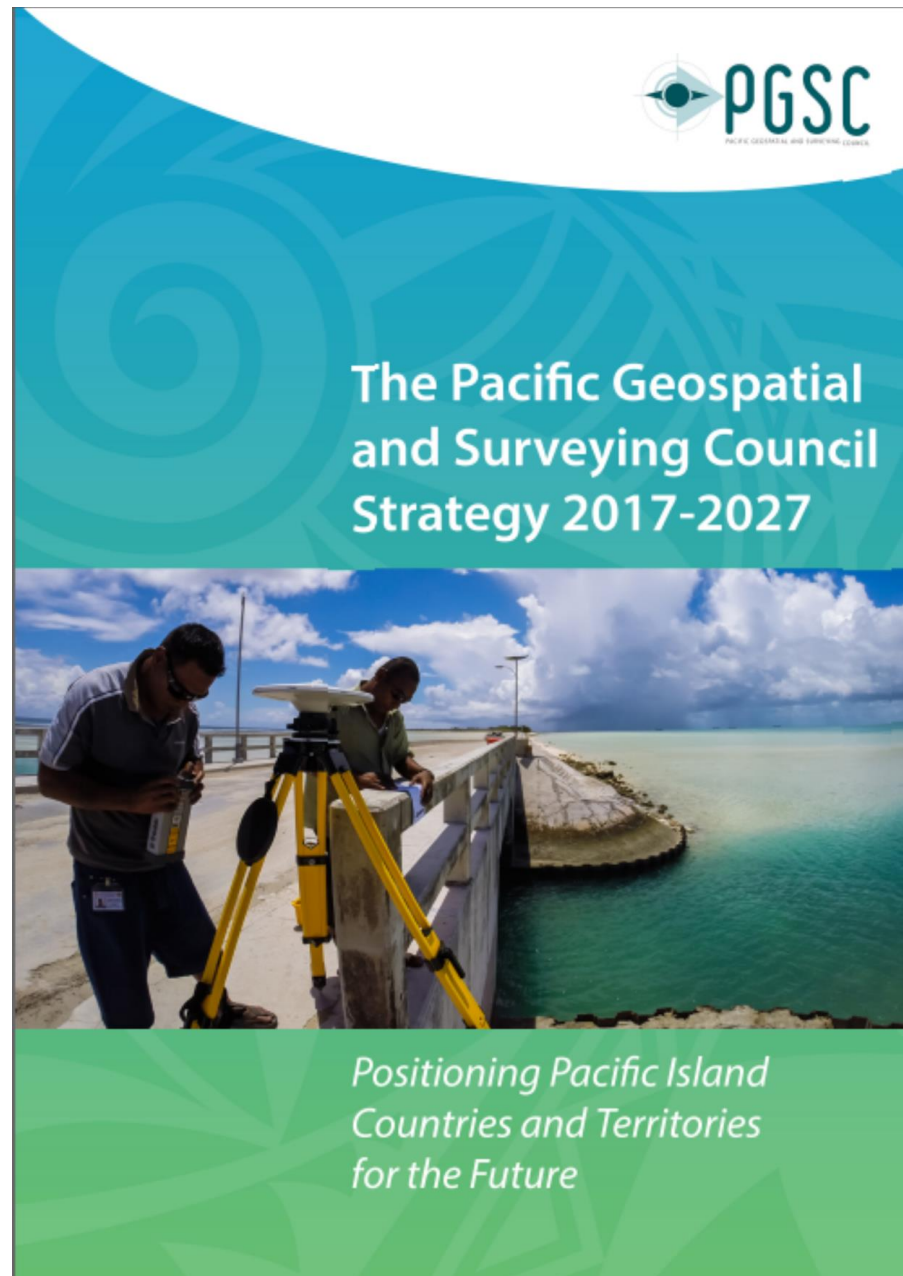


PGSC Strategy

- Workshopped and developed collaboratively at the 2015 PGSC Meeting
- Drafted by the PGSC Strategy Drafting Committee
- Edited and reviewed by MEL consultants
- Content endorsed by the PGSC in November 2016
- Officially launched at PGSC meeting in April 2018



PGSC Strategy



The late Prime Minister, Hon. Samiuela 'Akilisi Pōhiva launched the world's first regional strategy for surveying & geospatial development on 10 April 2018 in Nuku'alofa, Tonga

Also pictured, the Australian High Commissioner, New Zealand High Commissioner, Japanese Consulate, UNGGIM, and the Pacific Community (PGSC Partnership Desk)

PGSC Working Groups

Positioning



Supporting countries to modernise their Geodetic Reference Frames and align to the Global model

Geospatial Policy & Data Management



Supporting countries to develop policies and tools for improved geospatial information and data management

Capacity Building



Supporting countries to build existing and future capacity through expanded professional development and educational opportunities

Strategic Partnerships

- **Donor** support from AU-DFAT, NZ-MFAT, UN-GGIM
- **Training and capacity support** from Geoscience Australia, LINZ, UN-GGIM-AP, FIG, UKHO, USP, UNOOSA, SPC
- **Equipment and infrastructure** support from GA, SPC
- **MoU** signed with S+SNZ (2018) and SSSi (2019)
- Links with key global and regional frameworks:
 - SDGs, UN-GGIM Roadmap, Sendai Framework, SAMOA Pathway, FRDP, FIG Suva Statement and Christchurch Declaration



Pacific and New Zealand surveying and geospatial professionals join forces for capacity development

10 Apr 2018 | NukuʻAlofa



MoU signed with S+SNZ April 2018



MoU signed with SSSi Aug 2019



PGSC Partnership Desk - SPC

- Geological Surveys
- Hydrography
- Oceanography
- Geospatial Data Management
- Surveying and Geospatial
- Remote Sensing
- Maritime Boundaries
- UAV Surveys
- Law and Policy
- Stakeholder engagement
- Training
- Communications Procurement
- Management
- Advocacy
- Capacity Development
- Resource Development



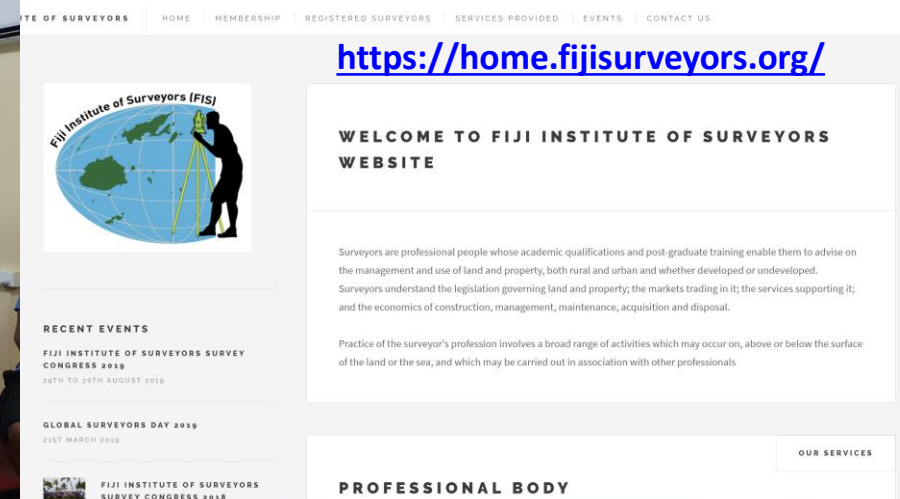
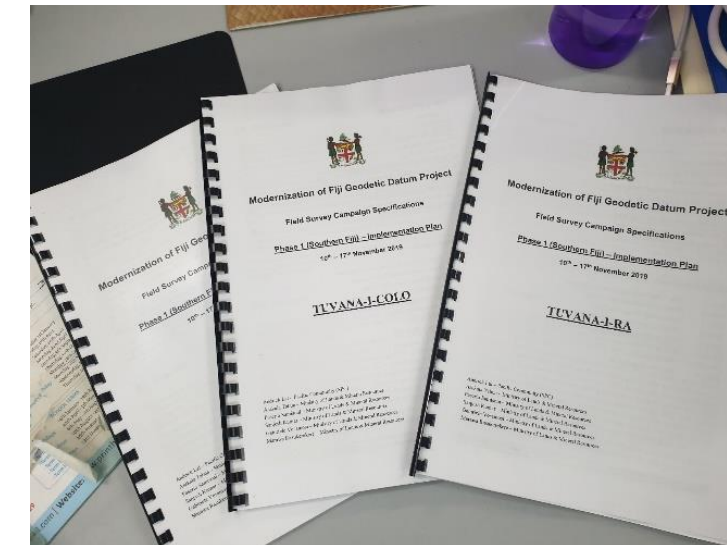
PGSC Partnership Desk receives SPC DG Award for Member Collaboration Dec 2018



Partnership and Collaboration National, Regional and International UNOOSA Workshop, Suva 2019

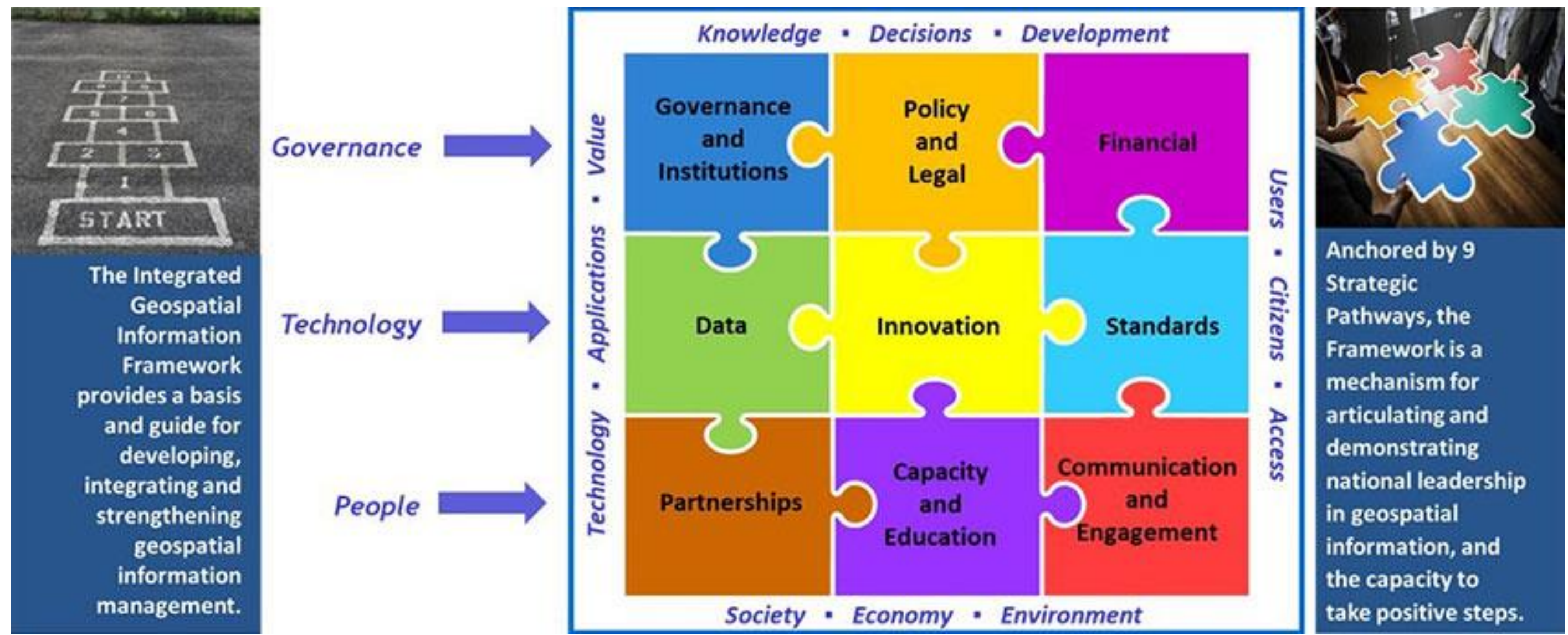
Recent Activities

- Tuvalu Geodetic Surveys, Data Processing, Analysis & Reporting
- GNSS Equipment Pool – PGSC Desk
- Geodetic Survey Operations & Data Management
- Datum Modernization – Fiji, Tuvalu, Tonga, Vanuatu, PNG (ARoB)
- GNSS Data Processing, Analysis & Reporting
- Virtual Survey Capacity Training – Survey Teams
- Fiji Institute of Surveyors Survey Congress and Website
- GNSS CORS - Fiji





United Nations Committee of Experts on Global Geospatial Information Management



- Sub-committee on Geodesy
- Expert Group on Land Administration and Management
- Expert Group on Marine Geospatial Information





United Nations Committee of Experts on Global Geospatial Information Management



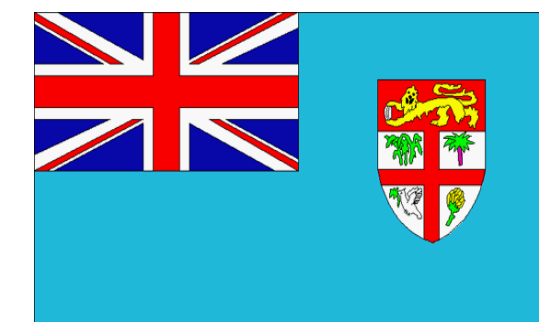
11TH TRANCHE DEVELOPMENT ACCOUNT PROJECT
STRENGTHENING GEOSPATIAL INFORMATION MANAGEMENT IN DEVELOPING COUNTRIES
TOWARDS IMPLEMENTING THE 2030 AGENDA FOR SUSTAINABLE DEVELOPMENT
(PROJECT 1819D)

COUNTRY-LEVEL ACTION PLAN

ADDENDUM L

TOWARDS STRENGTHENING ARRANGEMENTS IN NATIONAL GEOSPATIAL
INFORMATION MANAGEMENT

[Republic of the Fiji Islands]





United Nations Committee of Experts on Global Geospatial Information Management



KINGDOM OF TONGA STRENGTHENING ARRANGEMENTS TOWARD AN INTEGRATED GEOSPATIAL MANAGEMENT



Kiribati and UN-GGIM IGIF

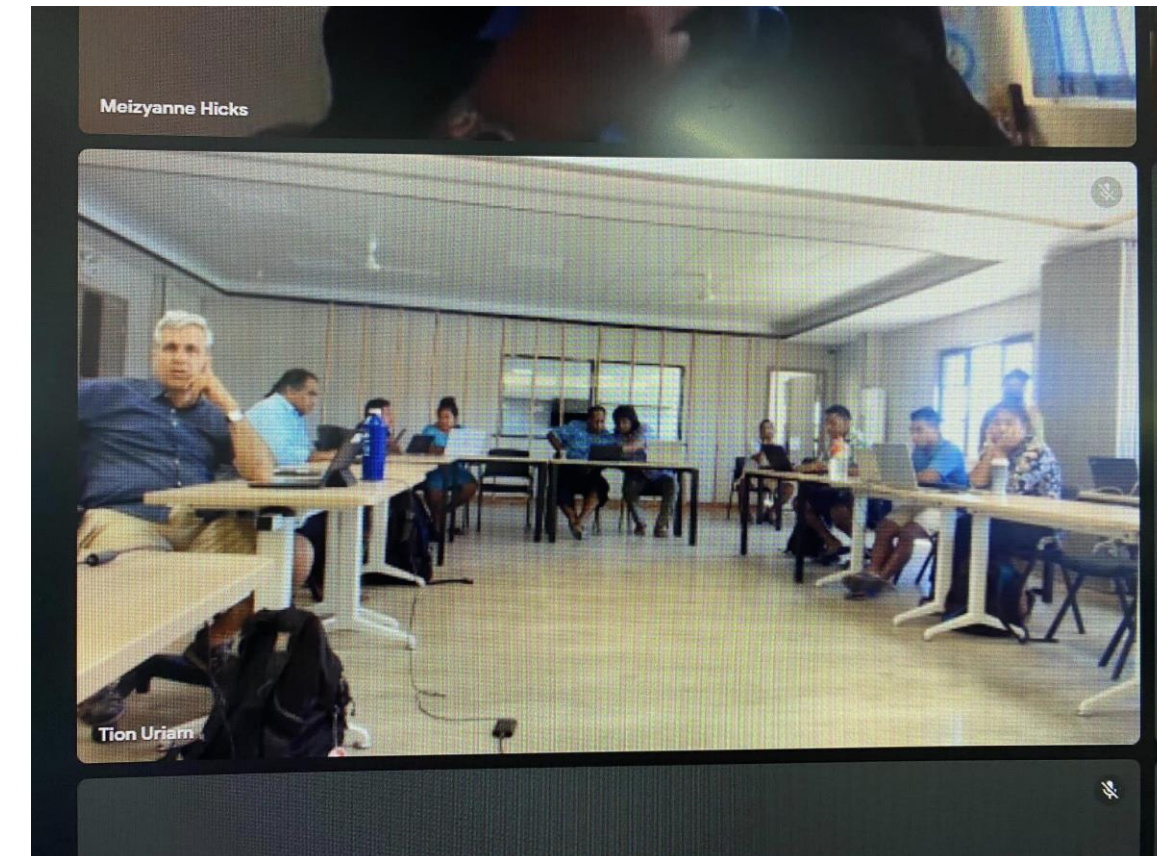
John Nyberg - NOAA Federal is presenting

Experiences

- ▶ Employing team members to work on the CAP
- ▶ Understanding what needs to be done
- ▶ Being determined
- ▶ Consultation with Stakeholders
- ▶ Approval from the highest level
- ▶ Sharing our journey with our friends in the Pacific region




The screenshot shows a Zoom meeting interface. At the top, a banner reads 'John Nyberg - NOAA Federal is presenting'. Below it is a large video window showing a group of people sitting around a long table, eating and talking. To the left of this video is a list of bullet points under the heading 'Experiences'. At the bottom of the screen is a grid of smaller video windows showing individual participants. On the right side of the grid is a whiteboard with the title 'Gather around a whiteboard' and some text about brainstorming.



Pathway 4 - DATA

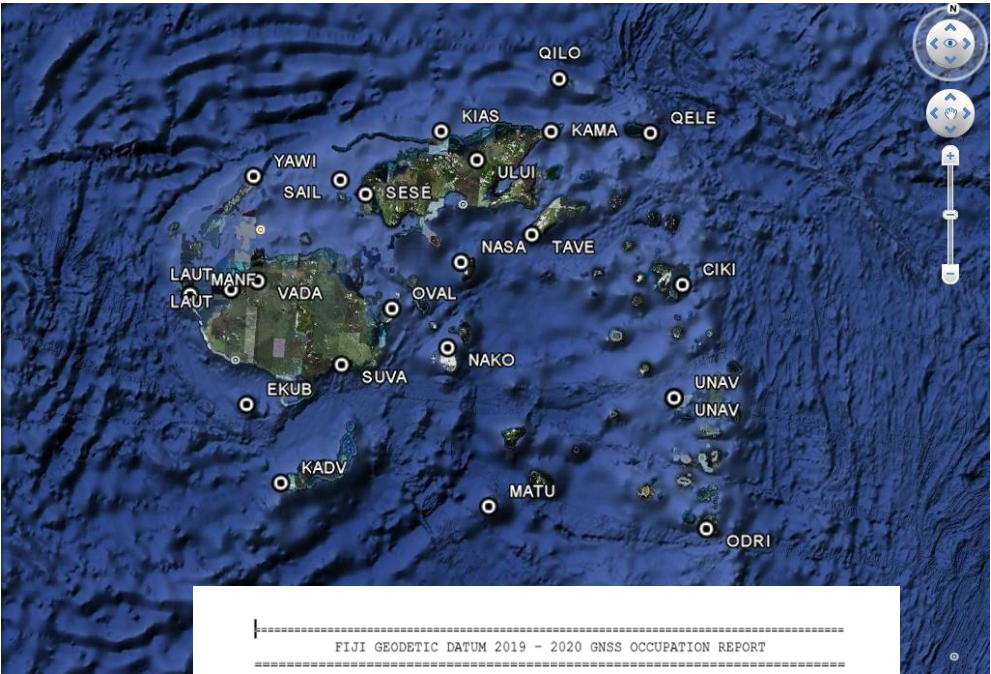
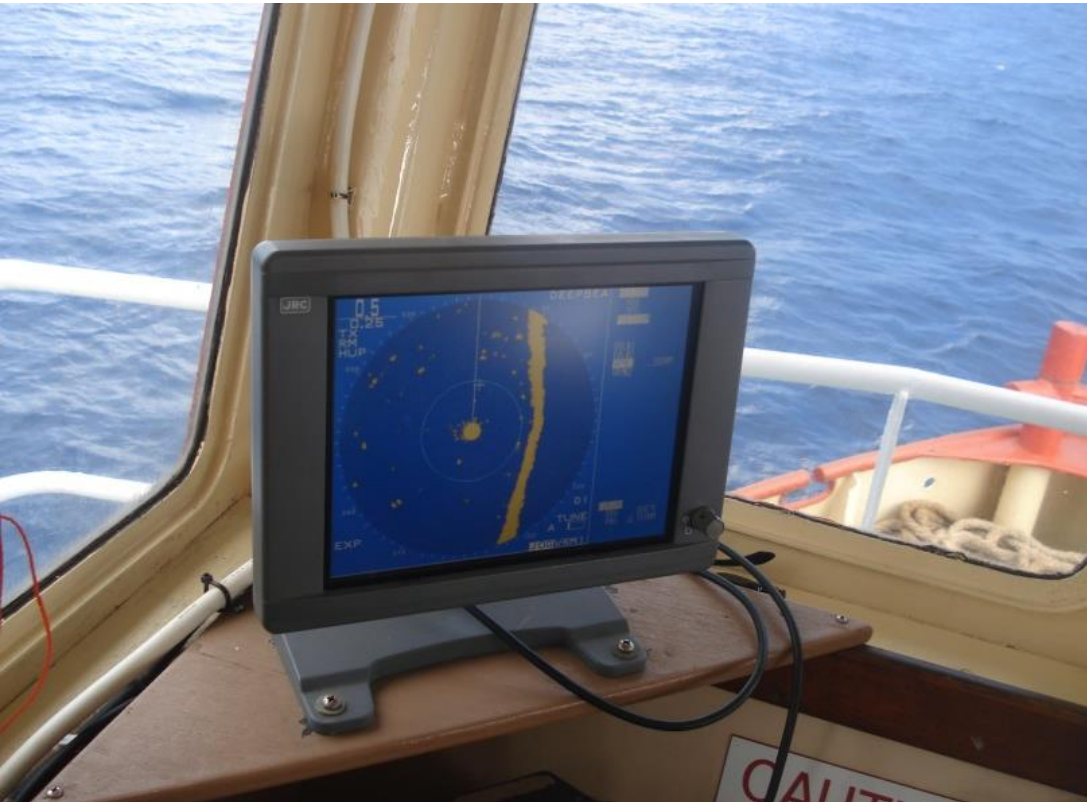
Ministry of Lands and Natural Resources
Government of Tonga

- 'Availability of High Quality Data is so critical for decision makers to understand where investments can have the greatest impacts' (Antonio Guterres, UN Secretary General).
- SDG Data Alliance supports to establishing National SDG Data Hub Platform: To enable monitoring of achievement of the SDGs by goal, target and indicators (Source: SDG Data Alliance).
- SDG Data Hub Solution Template is configured using ArcGIS Online that organizes people, Data and Tools to accomplish initiatives and goals.
- ESRI GIS Technology grant a professional packages for a country deployment (remoted/or on-site) included:
 - 2 ArcGIS Desktops Advanced Licenses - Non royalty Bearing Extensions
 - 1 ArcGIS Enterprise Advanced - Non royalty Bearing Server Role
 - 5 ArcGIS Online Creator named users
 - 10,000 ArcGIS Online Service Credits
 - 2 Insights for ArcGIS
 - Access number of Global Data sets via ArcGIS Living Atlas
 - Capacity Building opportunities



The screenshot shows a Zoom meeting interface. On the left is a large video window showing a presentation slide titled 'Pathway 4 - DATA' with a list of bullet points. On the right is a small video window showing a person labeled 'halalika etika'. At the bottom is a grid of smaller video windows showing individual participants. At the bottom right is a whiteboard with the title 'Gather around a whiteboard' and some text about brainstorming.

Field Surveys & Geodetic Datum



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FIJI GEODETIC DATUM 2019 - 2020 GNSS OCCUPATION REPORT

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STATION NAME: CEVA I RA

4 CHARACTER ID: CEVA

LOCATION: CEVA I RA I SLAND

COUNTRY: FIJI

TYPE OF SURVEY MARK: 20mmx1.220mm STEEL ROD ENCASED BY 30mmx0.5mm ALUMINIUM PIPE IN SITU IN CONCRETE.

ORTHOMETRIC HEIGHT OF SURVEY MARK:
(MEAN SEA LEVEL DATUM)

OBSERVATION START DATE/DAY: 09/11/2019

UTC TIME: 2257hrs

OBSERVATION END DATE/DAY: 17/11/2019

UTC TIME: 0007hrs

GNSS RECEIVER TYPE: TRIMBLE

=====

MODEL: TRIMBLE R10

SERIAL NUMBER: 5333441663

FIRMWARE VERSION: 4.81

GNSS ANTENNA TYPE: TRIMBLE

=====

MODEL: TRMR10

SERIAL NUMBER: 5333441663

HEIGHT OF GNSS ANTENNA ABOVE STATION MARK: 1.643m
(VERTICAL MEASUREMENT)

DESCRIPTION OF THE POINT ON THE GNSS ANTENNA

THAT THE ANTENNA HEIGHT REFERS TO:

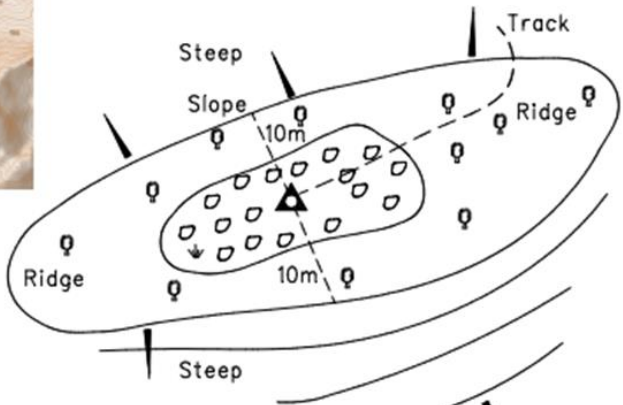
BOTTOM OF QUICK RELEASE

ANTENNA HEIGHT TO ARP - 1.692m

ATTACH ADDITIONAL INFORMATION AND DIAGRAMS THAT MAY BE USEFUL FOR PERSONS PROCESSING THE DATA AND ANALYSING THE RESULTS.

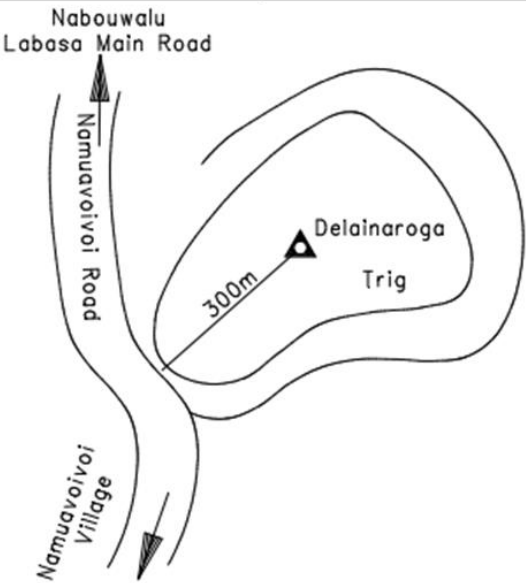
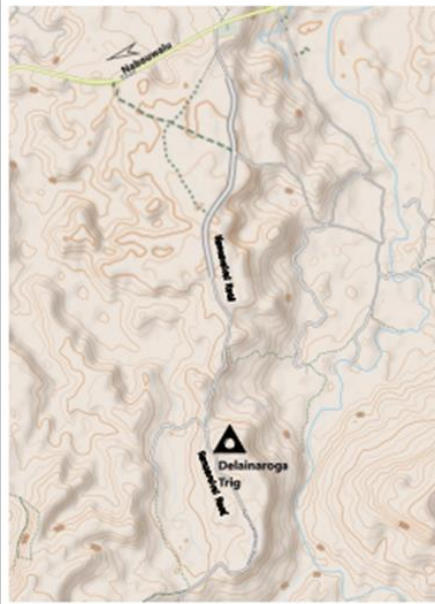
Geospatial Data Management

COUNTRY: FIJI	MINISTRY OF LANDS &	POINT ID: BULE
ISLAND: VANUA LEVU	MINERAL RESOURCE	DATE: 26-01-20
PROVINCE: MACUATA	CONTROL SECTION	LDP: FJ133



Locality Diagram Not To Scale

COUNTRY: FIJI	MINISTRY OF LANDS &	POINT ID: ROGA
ISLAND: VANUA LEVU	MINERAL RESOURCE	DATE: 26-01-20
PROVINCE: BUA	CONTROL SECTION	LDP: FJ134



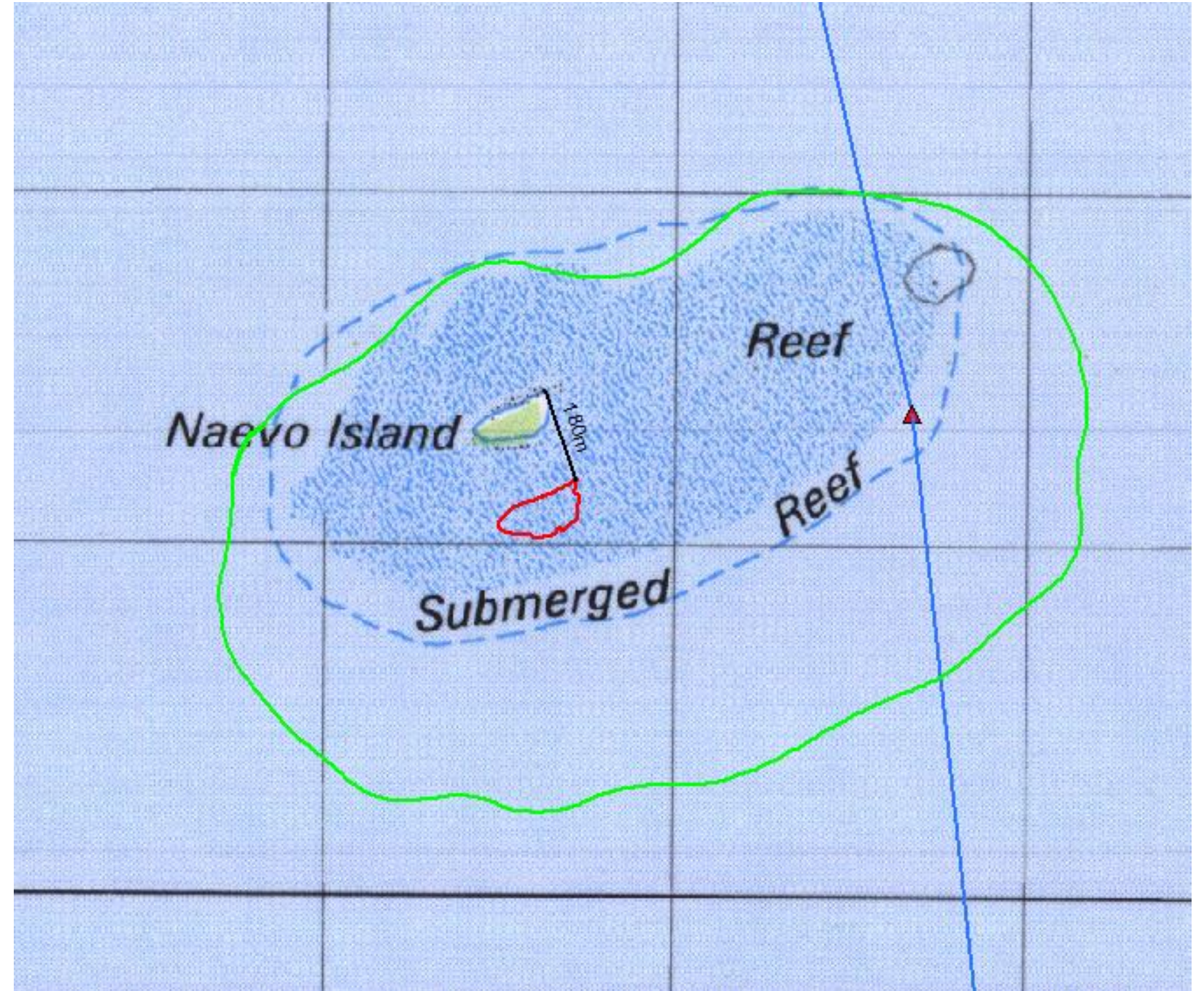
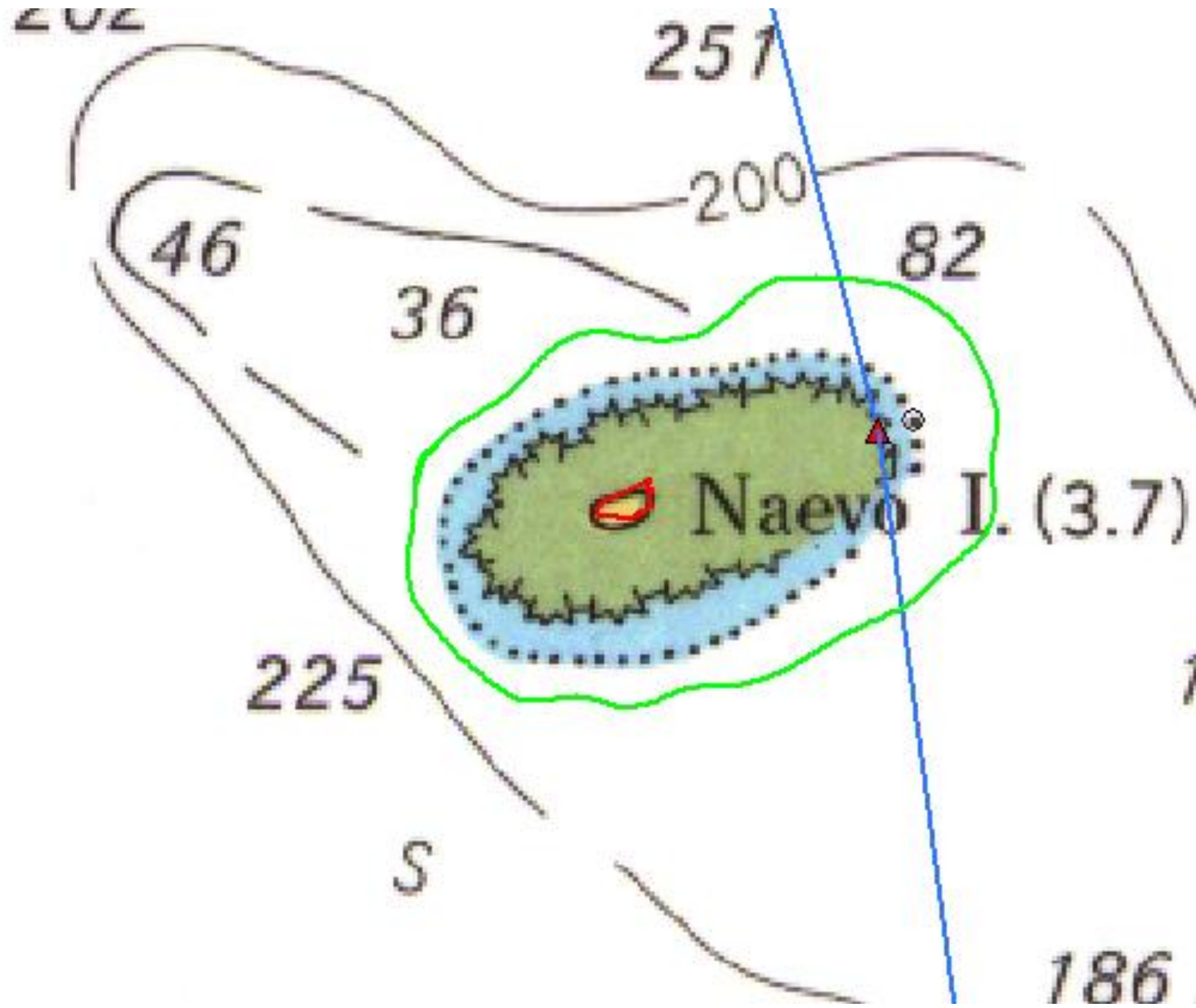
Locality Diagram Not To Scale

Fiji Geodetic Stations Survey Campaign Metadata

Station ID	Station Name	Occupation Period	Interval	Receiver Type	Antenna Type	Rinex Version	Vertical Ht (m)	Rinex Height	Antenna Method	Firmware	Checked By	Field Operators
LAUT	Lautoka	Continuous	1sec	SEPT POLARX5	JAVRINGANT_DM	5.2.0			ARP			GA
SUV1	Suva	Continuous	1sec	Trimble NetR5	TRM55971.00	4.19			ARP			SPC
LABC	Labasa	Continuous	1sec	VNET10T-D	HI-TARGET AT-53501	3.02			ARP	CJ00		CONTROL
NABC	Nabouwalu	Continuous	1sec	HI-TARGET VNET10T-D	HITAT53501(HITS)	3.02			ARP	CJ00		CONTROL
TAVC	Taveuni	Continuous	1sec	HI-TARGET VNET10T-D	HITAT53501(HITS)	3.02			ARP	CJ00		CONTROL
KORC	Koro	Continuous	1sec	Leica GR50	Leica AR20	3.02			ARP	4.11.606		CONTROL
LAKC	Lakeba	Continuous	1sec	Leica GR50	Leica AR20	3.02			ARP	4.11.606		CONTROL
ONOC	Ono-i-Lau	Continuous	1sec	Leica GR50	Leica AR20	3.02			ARP	4.11.606		CONTROL
KADC	Kadavu	Continuous	1sec	Leica GR50								
ROTC	Rotuma	Continuous	1sec	Leica GR51								
CEVA	Ceva-i-ra	7 DAYS	1sec	TRIMBLE R10								
BUKE	Delainabukelevu (Kadavu)	7 DAYS	30sec	TRIMBLE NET R9								
NAKO	Nakorowaro (Gau)	7 DAYS	30sec	LEICA GS10								
OALA	Korokoli (Moala)	7 DAYS	10sec	LEICA GPS 1200								
UNAV	Lakeba(GPS - Yadrana)	7 DAYS	1sec	LEICA GS16								
CIKI	Cikobia-i-lau	7 DAYS	15sec	LEICA GS10								
LULU	Cokalulu (Cicia)	7 DAYS	10sec	TRIMBLE NET R9								
MTKU	Matuku	7 DAYS	30sec	LEICA GPS 1200								
OGEA	Ogea Driki	7 DAYS	30sec	LEICA GPS 1200								
VATO	Vatoa	7 DAYS	30sec	LEICA GPS 1200								

Station ID	Start time	Duration	Campaign	File Name	RINEX Version	Ant Height	Ant Method	Ant Manufacturer	A
CEVA	10/11/19 1200hrs UTC	7days	Phase 1	16633153.19o 16633133.19o 16633140.19o 16633201.19o	3.02	1.692	BQR	Trimble	1
BUKE	10/11/19 1200hrs UTC	7days	Phase 1	42703140.19o 42703150.19o 42703160.19o 42703170.19o 42703180.19o 42703190.19o 42703200.19o	3.02	1.934	BON	Trimble	1 2 2
NAKO	10/11/19 1200hrs UTC	7days	Phase 1	NAKO3140.19o	3.02	1.625	Hook Height	Leica	L
OALA	10/11/19 1200hrs UTC	7days	Phase 1	MOAL3130.19o	2.11	1.764	Hook Height	Leica	L
UNAV	10/11/19 1200hrs UTC	7days	Phase 1	UNAV3140.19o UNAV3130.19o	3.02	1.74	Hook Height	Leica	L
CIKI	10/11/19 1200hrs UTC	7days	Phase 1	CIKI3130.19o	3.02	1.693	Hook Height	Leica	L
LULU	10/11/19 1200hrs UTC	7days	Phase 1	LULU.19o	3.02	1.707	BON	Trimble	1 2 2
MTKU	10/11/19 1200hrs UTC	7days	Phase 1	MATU3130.19o	2.11	1.623	Hook Height	Leica	L
OGEA	10/11/19 1200hrs UTC	7days	Phase 1	OGEA3130.19o	2.11	1.545	Hook Height	Leica	L

Positioning



Communications & Community



Pacific Geospatial and Surveying Council

Public group · 1.3K members

<https://www.facebook.com/groups/3998884766792177/>



Home > Updates from SPC > Web Stories

Mapping our Pacific Geospatial Future

Suva | 21 June 2022 |   



Imagine a world without maps. It's hard to do. Humans are born map-makers, instinctively looking for landmarks, making sense of patterns, and forming connections when we venture beyond our known environment.

For this reason, geospatial science may be one of the most important fields of study you have ever heard of. Geospatial information is location information. At its simplest, this can be topographical information found on a map. But you can also add in layers of location-tagged data, to show changes or trends, for example, in land use, population density, vaccine distribution, or coral reef health over time.

"If you look at Fiji's national development plan, there are so many areas where geospatial information comes in. There are calls to use geospatial information to plan for the future, to understand the past, and to improve the present."



feature

modernisation programs in CAPs, there are also other initiatives that will require assistance, such as:

- Revision of legislation of the Native Lands Act, and relevant Survey legislation to align with Timor-Leste's IGIP and CAP aspirations; and
- Upgrading of Timor-Leste's Navigation Charts, to assist commercial shipping and cruise liners to navigate Timor-Leste's waters safely, thus improve the trade and tourism industry, once the COVID-19 influences have subsided.

Embracing challenges through Partnerships, Pacific Geospatial & Surveying Council (PGSC) and the Pacific Community (SPC) By - Andrick Lal, Senior Geospatial Surveyor

In November 2014, a group of Pacific regional surveying and geospatial experts met in the margins of the annual Pacific Geospatial Information Systems and Remote Sensing (GISRS) User Conference in Suva, Fiji. It was at this meeting that the PGSC was first envisaged as a charter governing its mission and objectives were developed. In addition, the Pacific Community (SPC) established the Pacific Geospatial and Surveying Partnership Desk to provide secretariat services and support the PGSC in achieving its goals and objectives. Briefly, the PGSC, is an independent regional advisory body that provides a forum for Pacific Island geospatial information and survey authorities to discuss and address regional challenges. The PGSC aims to collaborate with regional and international organisations, associations, educational institutions and technical groups to support progress on national, regional and global development objectives for sustainable development in the Pacific enabled by world-class geospatial information and surveying services. The 14 country members of the PGSC describe that geospatial information underpins the majority of economic and sustainable development activities in the world today. The services provided by Pacific Island geospatial scientists and surveyors contribute to the security and well-being of Pacific people, supporting numerous industries and sectors. These include natural resource management, civil engineering, climate change adaptation, disaster risk reduction, transport, land ownership, health, and agriculture to name a few. The SPC is the principal scientific and technical organisation in the Pacific region, proudly supporting development since 1947. From a geospatial modernisation perspective, the SPC Geospatial Survey Team deliver professional advice and services to the PGSCs. This primarily involves provision of instrumentation, on-site technical guidance or support on numerous field survey operations or techniques processing and management of geospatial data; geospatial datum and positioning matters; GNSS base stations; GNSS measurements for survey control, monitoring, cadastral or geospatial activities; and precision levelling monitoring surveys, including assisting with tide gauge measurements for the Pacific Sea Level & Monitoring Project in the Pacific. Partnerships are critical to the successful implementation of the Pacific Geospatial and Surveying Council Strategy 2017-2027. The responsibilities of regional surveying and geospatial managers frequently correspond to broader initiatives, which all contribute toward achievement of United Nations Sustainable Development Goals. The PGSC relies upon collaboration, and is an important contributor towards sustaining a GRIFF and global efforts to improve positioning and geospatial information management. The goals of the PGSC, the Partnership Desk and SPC are focused on:

- Positioning
- Geospatial Policy & Data Management
- Capacity Building

Since 2014 the PGSC Partnership Desk, SPC and development partners such as the Pacific Geospatial and Surveying Council (PGSC) virtual meeting.

Modern Geodetic Infrastructure - Key to Consistency and Efficiency By - Sanjesh Kumar, Senior Surveyor, Asakala Tabua, Surveyor-General Fiji

Fiji is highly vulnerable to natural disasters such as cyclones, coastal inundation and flooding due to climate change and subsequent sea level rise. These natural events affect the food security, livestock, infrastructure, health, housing and livelihoods of more than 800,000 Fijians. It is therefore critical for Fiji to mitigate the influence of natural disasters and climate change. Surveyors can alleviate this impact by applying their skills to disaster preparedness, building resilience, quantifying the environmental and social changes, and providing qualitative analysis. The keys to monitoring and measuring such changes are access to reliable satellite positioning technology, high resolution and accurate geospatial data and information, and systems at the local, national, regional and global level. Prior to modernisation, Fiji's geospatial datum was based on the World Geodetic System 1972 (WGS72) and comprised of a network of triangulation and trilateration observations, which interconnected the main and outermost islands. To achieve a modernised datum, Fiji has embraced the challenges and identified the action required to migrate from a local datum to a GRSF, such as the International Terrestrial Reference Frame (ITRF). Presently, the ITRF, and/or its subset Asia Pacific Reference Frame (APRF), is the frame adopted by many PGSCs to realise their nation's geospatial datum, primarily because of its reliability, accuracy and accessibility. As such, Fiji's Cabinet Memorandum - Modernising Fiji's Geospatial Datum was strategically aligned to the 2015 UN General Assembly Resolution on the GRSF, in August 2015. This mandate to modernise their geospatial datum, also set the roadmap for the integration, interoperability and management of geospatial information and systems at the local, national, regional and global level. The field campaign involved the occupation of 164 GRSF with GNSS receivers, and was divided into three (3) phases. The GRSFs were occupied continuously for 7 days, and each phase was completed in November 2019, December 2019 and February 2020 respectively. A number of these GRSFs occupied were existing Decker stations, which were originally observed in the early 1980s. Observations on first order trigonometric geodetic stations were primarily on the islands of Viti Levu and Vanua Levu, as well as the Maritime Islands. Other observations were taken to selected parcels, and standard survey marks in major towns and cities. A substantial amount of the GNSS survey data acquired during the field survey campaign will be used to validate the position of Fiji's existing geodetic system and the determination of a new geospatial datum aligned to the ITRF / GRSF. The GNSS data will subsequently be integrated with the Pacific GNSS CORS Network for the computation of the new transformation parameters, and be the primary network adjustment of Fiji. Briefly, datum modernisation started with the construction of eight (8) GNSS CORS across Fiji. These stations complemented two (2) GNSS CORS managed by Geoscience Australia and the SPC. Soon after the construction of the GNSS CORS, survey teams were deployed to carry out reconnaissance and identification of existing 'passive' geodetic control stations (GCSs), that would be connected to the GNSS CORS, and form the fiducial observations for the geospatial network adjustment. In order for this geospatial field campaign to be successful, collaboration and assistance with the Fiji Hydrographic Office, Fiji Navy, SPC, PGSC and Partnership Desk was necessary. The campaign involved more than sixty (60) survey personnel and included a three-day workshop in the operation of GNSS survey equipment. This training and capacity building for the survey personnel was facilitated by the SPC and Partnership Desk in October 2019. The field campaign involved the occupation of 164 GRSFs with GNSS receivers, and was divided into three (3) phases. The GRSFs were occupied continuously for 7 days, and each phase was completed in November 2019, December 2019 and February 2020 respectively. A number of these GRSFs occupied were existing Decker stations, which were originally observed in the early 1980s. Observations on first order trigonometric geodetic stations were primarily on the islands of Viti Levu and Vanua Levu, as well as the Maritime Islands. Other observations were taken to selected parcels, and standard survey marks in major towns and cities. A substantial amount of the GNSS survey data acquired during the field survey campaign will be used to validate the position of Fiji's existing geodetic system and the determination of a new geospatial datum aligned to the ITRF / GRSF. The GNSS data will subsequently be integrated with the Pacific GNSS CORS Network for the computation of the new transformation parameters, and be the primary network adjustment of Fiji. Briefly, datum modernisation started with the construction of eight (8) GNSS CORS across Fiji. These stations complemented two (2) GNSS CORS managed by Geoscience Australia and the SPC. Soon after the construction of the GNSS CORS, survey teams were

Static CORS Stations as part of the 7 day field survey campaign.

Below and below: Static CORS Stations as part of the 7 day field survey campaign.

Geospatial Survey Stations occupied in field survey campaign.

20 position February/March 2021

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One Pacific One Map



24 Pacific Countries
and Territories

30 million people

42 million square
kilometres

30% of the world's
Exclusive Economic
Zones

Thank you and Vinaka