

**Report to the 42<sup>nd</sup> General Assembly  
FIG Working Week 2019, Hanoi - Vietnam**

**FIG Asia Pacific Capacity Development Network**

**Report of Activities 2018-19 (Term 2019-22)**

**1. General**

The first discussions of the FIG Asia Pacific Capacity Development Network (AP CDN) occurred in response to the FIG Pacific Small Island Development Symposium (SIDS) - Suva Statement on “Spatially Responsible Governance”, held in Lami Bay Suva – Fiji, September 2013. Since then members of FIG, the FIG Corporate sector, and several of our sister organisations have formed an active network of specialists and experts to develop the geodetic and geospatial capacity in the Asia Pacific region, and to also assist countries to establish fit for purpose geodetic infrastructure that supports responsible land governance.

Over the last few years, the work plan for the FIG AP CDN has been focused on (a) addressing the technical geodetic and geospatial challenges, and (b) advocating how geospatial information can influence the socio and economic issues being faced today. The network’s success in delivering these remits, and to convene reference frame in practice workshops, seminars and meetings, is primarily due to the will to succeed, significant collaboration and relationship building with professional surveying bodies and like-minded agencies, developing geodetic capacity, and the alignment or harmonisation of geodetic wants and needs with the broader objectives of a country’s government.

**2. Steering Committee**

The sustainability of the FIG AP CDN relies on a very dedicated steering committee, which comprises of members from various agencies and countries:

- Dr. Matt Amos – International Association of Geodesy (IAG), Land Information New Zealand
- Mr. Neil Ashcroft – Leica Geosystems Singapore
- Ms. Rosamond Bing – Pacific Geospatial and Surveying Council Chair, Tonga
- Mr. Graeme Blick – UN Sub-Committee on Geodesy (UN SCoG), Land Information New Zealand
- Ms. Allison Craddock – UN SCoG Education Training Capacity Building, IGS USA
- Dr. John Dawson – UN GGIM AP, Geoscience Australia
- Mr. Nic Donnelly – FIG Commission 5, Land Information New Zealand
- Mr. Viliami Folau – Tonga
- Ms. Sharafat Gadimova – UNOOSA International Committee on GNSS (ICG), Austria
- Ms. Meizyanne Hicks – Pacific Geospatial and Surveying Council Vice Chair, Fiji
- Mr. Andrick Lal – Pacific Community Geoscience Division

- Mr. Mikael Lilje – FIG Vice President
- Mr. Basara Miyahara – UN GGIM AP, Geospatial Information Authority of Japan
- Mr. Gerry Ong – Vice President ASEAN Flag, Singapore
- Mr. Asakaia Tabua – Surveyor-General, Fiji
- Ms. Molly Powers-Tora – Pacific Community Geoscience Division
- Mr. Randolph Vicente – President ASEAN Flag, Philippines
- Mr. Rob Sarib – Surveying and Spatial Sciences Institute (Australia) and Chair of FIG AP CDN

### 3. Cooperation

The activities of the AP CDN have occurred through cooperation with individuals or the working groups or affiliated with our sister organisations, such as - International Association of Geodesy (IAG); UNOOSA - International Committee on GNSS (ICG); UN GGIM AP; and UN SCoG.

In addition, there have been numerous professional associations and government based agencies who have worked collaboratively with the AP CDN, namely - Pacific Geospatial Surveying Council, Pacific Community - Geoscience Division, Geoscience Australia, Bureau of Meteorology (Australia), Land Information New Zealand (LINZ), Geospatial Information Authority of Japan, JUPEM - Department of Survey and Mapping, Malaysia, Ministry of Lands & Natural Resources – Tonga, Ministry of Lands and Mineral Resources – Fiji, ASEAN Flag country members, Surveying and Spatial Sciences Institute (Australia), New Zealand Institute of Surveyors, Fiji Institute of Surveyors, and the Japan Federation of Surveyors.

### 4. Events

The significant FIG AP CDN workshops, seminars and meetings for the 2018 - 19 were:

- Pacific Geospatial Surveying Council meeting and Legal Policy and Frameworks Workshop (facilitated by UN GGIM AP) in Tonga - April 2018
- Reference Frame in Practice Seminar “Vertical and Dynamic Datums” (organised by FIG Commission 5) at the FIG Congress Istanbul, Turkey – May 2018
- FIG AP CDN Special Forum and meeting at the FIG Congress Istanbul, Turkey – May 2018
- Reference Frame in Practice “Operational Aspects of GNSS CORS” (jointly hosted with UN GGIM AP, FIG Commission 5, and the Fiji Government) in Suva, Fiji – September 2018
- UN GGIM AP Plenary and UN SCoG meetings at the United Nations World Geospatial Information Congress in Deqing, China – Nov 2018

Upcoming events in 2019 that the FIG AP CDN will participate in are:

- Reference Frame in Practice Seminar “Regional Reference Frames” (organised by FIG Commission 5) at the FIG Working Week in Hanoi, Vietnam – 20 / 21 April 2019
- Special sessions jointly hosted with the UN GGIM AP and UN SCoG at the FIG Working Week in Hanoi, Vietnam – 22 to 26 April 2019
- UNOOSA ICG and Fiji Government Workshop on the Applications of GNSS in Suva, Fiji – 24 to 28 June 2019

- Reference Frame in Practice Seminar “Positioning and GNSS CORS Infrastructure” at the South East Asia Survey Congress (SEASC) in Darwin, Australia – 15 to 18 August, 2019
- Capacity Building Workshop in conjunction with IAG / IUGG / GGOS / UNOOSA in Buenos Aires, Argentina – September 2019
- UN GGIM AP Plenary and UN SCoG meetings at the 2019 GEO Ministerial Summit in Canberra, Australia – November 2019

## 5. Communication and publications

Reports on the outcomes / activities from events, as well as news and publications, can be found at the FIG AP CDN website - [http://www.fig.net/organisation/networks/capacity\\_development/asia\\_pacific/index.asp](http://www.fig.net/organisation/networks/capacity_development/asia_pacific/index.asp)

Please note, the support and assistance from the FIG Office to organise events, and to manage and administer the AP CDN webpages is greatly appreciated.

## 6. Work-plan, Future Activities and Challenges

The FIG AP CDN in 2019, from a work-plan perspective will continue to -

- Expand the network of geospatial and surveying professionals so as assist with the capacity development of surveyors to manage the regional issues and trends affecting geospatial information and infrastructure.
- Support the creation of regional capacity building plans for Asian and Pacific countries and encourage the alignment of such plans with agency strategic goals; national objectives; and UN initiatives.
- Facilitate capacity development initiatives for the Asia Pacific Reference Frame (APREF) in conjunction with the UN GGIM AP Working Group 1 – Reference Frames.
- Provide advocacy to Asia and the Pacific geodetic (and geospatial) community through workshops, technical and professional advice, a website, and active attendance to meetings or events in the regions.
- Contribute to relevant UN initiatives pertaining to the development of geodetic (and geospatial) capabilities and infrastructure. Initiatives such as the Integrated Geospatial Information Framework, and Global Geodetic Reference Frame.
- Maintain and enhance the profile of the FIG in Asia and the Pacific.

In addition to the above, the FIG AP CDN will also endeavor to review and update the existing FIG Publication 64 – Reference Frames in Practice Manual. This activity will be done in conjunction with FIG Commission 5, and will also incorporate a chapter about the findings and workings of the FIG AP CDN.