



XXVI FIG CONGRESS

6-11 May 2018, İstanbul



Asia Pacific Capacity Development Network Special Forum

EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT:
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Presentations and Discussions –

- Geospatial challenges and trends
- Role and Activities of - Manufacturers, Survey & Mapping agencies, Professional Organisations, UN GGIM
- Qualifications, Mutual Recognition
- Draft of the UN GGIM Geodesy Sub-committee Education, Training and Capability Building strategy
- Surveyors in the Digital World
- Women in Surveying
- Pacific Geospatial Surveying Council 10 year Strategy



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Level	Competency Requirements	Training provided by	
1	Basic understanding of: <ul style="list-style-type: none"> • GNSS • Reference frames, including geoid models, vertical and horizontal datums 	<ul style="list-style-type: none"> • Educational institutions – universities and polytechnic institutes • Government mapping agency • Private companies 	Countries that might have one CORs and maintain a traditional geodetic network of reference marks – e.g. small Pacific Island Nations?
2	The above plus knowledge of: <ul style="list-style-type: none"> • Constructing, building and running a small CORs network • GNSS processing using standard software - e.g. Trimble, Compass Solution (ComNav), LGO(Leica),.... • Least squares processing and provision of datum access • Geoids models, precision, determinations and basic implementation • Implementation of a vertical datum including use of geoid models 	<ul style="list-style-type: none"> • Educational institutions – universities and polytechs • UN-GGIM Geodesy Capacity Group • FIG • Government mapping agency • Private companies 	Countries with small CORs network and those who adopt global Reference frames for their nation reference frames – e.g. Fiji?
3	The above plus high knowledge of: <ul style="list-style-type: none"> • Implementing and running large CORs networks • High end GNSS processing and datum access • Geoid model computation and implementation into a vertical datums • Monitoring earth dynamics and including in datum realization • Geodetic database management 	<ul style="list-style-type: none"> • Specialized courses – e.g. geoid school • UN-GGIM Geodesy Capacity Group • IAG and FIG • Government mapping agency • Private companies 	Countries with a more extensive CORS and developing their own specialized national and vertical datum – e.g. New Zealand and Sweden?
4	The above plus expert knowledge of: <ul style="list-style-type: none"> • Reference frame determination and computation • High end GNSS analysis and processing • SLR including analysis and processing • VLBI including analysis and processing • Gravity collection, processing and geoid determination 	<ul style="list-style-type: none"> • IAG • Specialist training courses run by NASA/JPL – e.g. on VLBI or SLR • Private companies • Specialized software training courses – e.g. Bernese 	Countries engaged in Global Reference frame determination and Geodesy Science - e.g. US, Australia and Germany?



Summary

Recognising the global geospatial information challenges and trends, such as

- Impact of rapid urbanisation, and smart cities
- Influence of disruptive technologies and digitisation
- Permeation of ubiquitous positioning into the community
- Earth dynamics and modernisation of geospatial reference systems
- Importance of building resilience for disasters / emergency management

Surveyors **MUST** enhance their capabilities to tackle these challenges.

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To develop their capability Surveyors (and agencies) need to initially consider –

- Formulating a capacity building strategy, framework and implementation plans for the **sub regions** of Asia and the Pacific that focus on the **needs / priorities**
- Identifying **core competencies** for geospatial / geodetic surveying
- Investigating who can provide the required **professional development**
- Examining **mutual recognition of survey qualifications**
- Further **collaboration** with FIG AP CDN, UN GGIM AP, UN ETCB

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Moving forward the FIG AP CDN, UN GGIM AP Working Group 1, and UN ETCB will prepare proposals to the relevant hosts to convene a –

- Workshop for **decision makers** to discuss and form a capacity development plan for geodesists / surveyors in Asia and the Pacific. Location - Deqing, China Nov. 2018 @UN World Geospatial Information Congress; UN GGIM AP Plenary
- Technical workshop on GNSS CORS infrastructure and operations for the Pacific Island Countries and Territories. Location - Nadi, Fiji Sept / Oct 2018 @ Pacific Geospatial Surveying Council meeting.

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Follow up meetings in 2019 at

FIG Working Week 2019
Hanoi, Vietnam

International Federation of Surveyors (FIG) | Vietnam Association of Geodesy, Cartography and Remote Sensing (VGCR)

SOUTHEAST ASIA SURVEY CONGRESS
15 - 18 August, 2019 | Darwin Convention Centre

COLLABORATION | COMMUNICATION | CAPACITY-BUILDING

SEASC 2019 | SSSI

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