

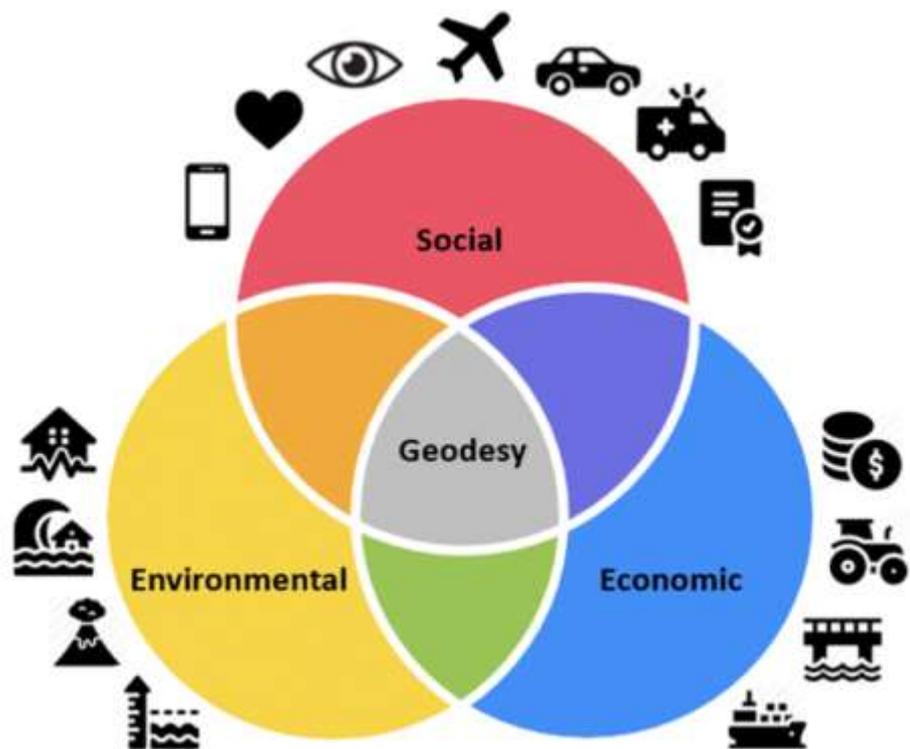


Capacity Development Network: Americas Region

Dr. Daniel Roman

Chair, FIG Commission 5

Importance of Geodesy



Courtesy: Geoscience Australia

- Geodesy underpins the three pillars of sustainable development:
 1. providing data and services to support societal benefits
 2. economic prosperity
 3. environmental monitoring
- Global players, amongst others:
- Member States
 - Build and maintain the geodetic infrastructure
- International Association of Geodesy: IAG
 - Operational services and product delivery
- **International Federation of Surveyors: FIG**
 - **Education, training and capacity development**
- **United Nations (Statistics Division)**
 - **Works with and supports Member States**

<https://www.geospatialworld.net/prime/prime-opinion/the-power-of-where-it-begins-with-geodesy/>

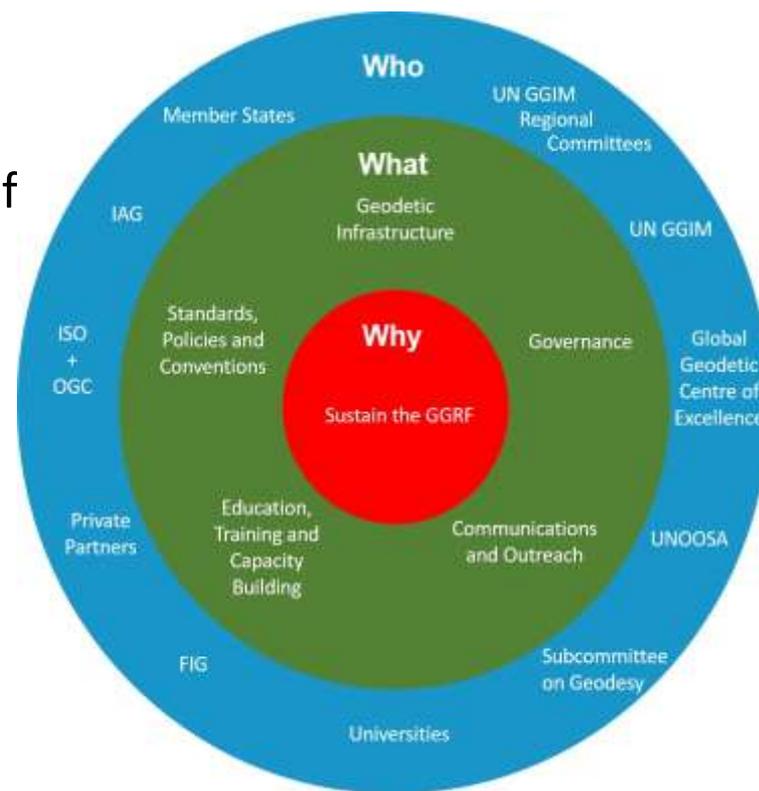
GGRF Roadmap Key Issues Categories

“A Global Geodetic Reference Frame for Sustainable Development”

- UN General Assembly adopted in 2015
- First resolution recognizing the importance of a globally-coordinated approach to geodesy.
- Uplifted WG GGRF to UN SCoG

Five WG’s are based on these categories:

1. Geodetic Infrastructure
2. Policies, Standards and Conventions
3. Education, Training & Capacity Building
4. Governance
5. Outreach and Communication



Capacity Development in the Americas

- Global training support and planning
 - FIG Commissions 2 & 5, YSN, FIG Foundation, CDN's
 - UN-GGIM, UN SCoG, GGCE, UN-OOSA, UN Academic Network
 - IAG/IGS/IGFS
- Regional coordination/implementation
 - UN-GGIM-Americas – WG GRFA (SIRGAS DC)
 - SIRGAS WG II
 - Joint Action Plan
 - FIG CDN-Americas

UN-GGIM-Americas



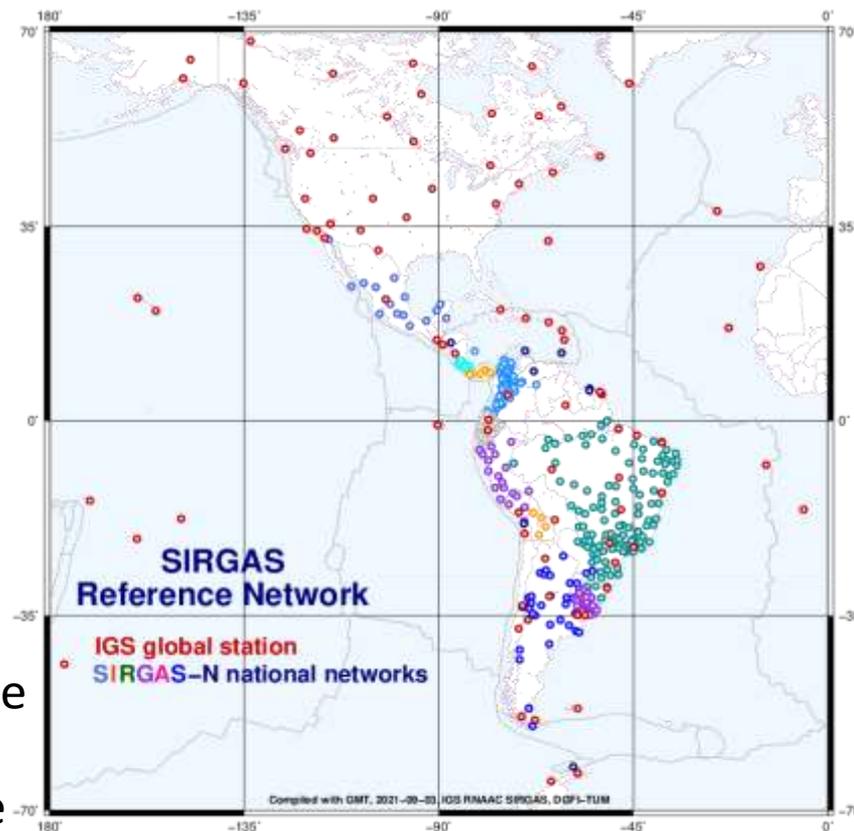
-  **Integration of Statistical and Geospatial Information**
The Working Group on Integration of Statistical and Geospatial Information is currently managed by t...
[More](#)
-  **Disasters**
The current Working Group for Disasters is coordinated by Sint Maarten through the Ministry of Publi ...
[More](#)
-  **Geodesy**
The current Working Group of the Geodetic Reference Framework for the Americas (GRFA) is coordinated ...
[More](#)
-  **Geospatial Data Infrastructure**
The current Working Group on Geospatial Data Infrastructures is led by Chile through SNIT-SDI of the ...
[More](#)

WG Geodetic Reference Frames for the Americas ↔ SIRGAS Directing Council

SIRGAS-WGII (SIRGAS at national level)

- Created in 1993
- Now covers all of the Americas
- National ties to regional network
- General strategy:
 - establishment first order GNSS national network
 - determination of transformation parameters
 - adoption of SIRGAS as official frame in each country
- SIRGAS-WGII provides periodic training and education Reference Systems
- Strengthen the fundamental concepts associated with the Geodesy and Reference Frames.
- Oriented to producers and users of precise geodetic data in the SIRGAS member countries.

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Members of the SIRGAS-WGII

- Demián David Gómez (gomez.124 @ osu.edu), chair, OSU, USA
- Roberto Pérez Rodino (rodino @ fing.edu.uy), UDELAR, Uruguay
- William Martínez Díaz (wialmadi @ gmail.com), Agencia Nacional de Minería, Colombia
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Joint Action Plan (2021 - 2024): Outcomes of the Aguascalientes Declaration



Joint Action Plan Elements => ETCB

Regional organizations in the Americas should work together to define further joint work strategies and programs to mutually advance regional integration to build a Spatial Data Infrastructure (SDI) composed of diverse information resources, such as Earth Observations (EO), geographic, statistical and other thematic information (hereafter referred to as geospatial data).

Three founded working groups:

1. **Capacity Development (CD),**
2. Communication, Cooperation, and Coordination (CCC),
3. **Data, Information, and Knowledge Sharing (DIKS)**

Americas CDN

FIG Regional Capacity Development Network



Welcome to FIG Regional Capacity Development Network

In 2015 the FIG Council established this Network. The purpose of the Regional Capacity Development Network is to **"Ensuring the Rapid Response to Change Ensuring the Surveyors of Tomorrow"** by a global network operationalised on a Regional basis.



Aspects of Americas CDN

- Must work regionally with SIRGAS WG II
 - Akin to AP CDN work with PGSC
 - SIRGAS has national contacts
 - Can go to UN-GGIM-Americas to garner political will
- Must work towards Joint Action Plan tasks
 - Already in place
 - This must also support global efforts at GGCE/UN-SCoG
 - Work through UN-GGIM-Americas
 - National ↔ Regional ↔ Global

Americas CDN and Surveyors

- In the end, surveyors have to do all of this:
standards, infrastructure, revised datums, new tools, new laws, etc.
- Hence, there is a need for a group to coordinate ETCB opportunities and needs
- Many training opportunities exist
 - IAG/IGS
 - NASA/JPL
 - National training centers
- The Americas CDN will help bring these to you





Questions?

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