



The UN Global Geodetic Centre of Excellence

GGOS Coordinating Board Meeting May 16, 2022

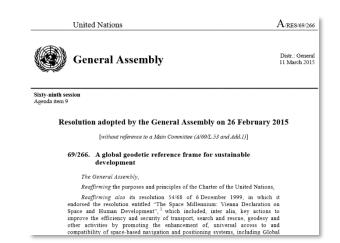
Johannes Bouman



# Global Geodetic Reference Frame - GGRF

- UN-GGIM resolution for a "Global Geodetic Reference Frame for Sustainable Development (GGRF)"
- Adopted on 26 February 2015 by the UN General Assembly, the highest-ranking UN body
- GGRF is the first geoscience-related resolution
- Main GGRF goals:
  - Establish an authoritative, reliable, highly accurate, and global, geospatial referencing infrastructure
  - Support the collection, integration and utilization of all other geospatial data
  - Improve earth observation and positioning







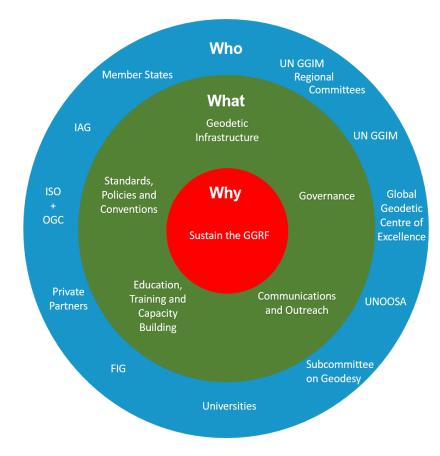


# Many players to sustain the GGRF

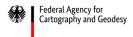
To sustain the GGRF the support and cooperation of Member States and organisations are needed.

## 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



Why we need to work together to sustain the GGRF, what needs to be done and who can help.





# A new player is born: Global Geodetic Center of Excellence - GGCE

The UN Subcommittee on Geodesy was tasked to develop a

- Position Paper on "Sustaining the GGRF"
  - describes the current state and future requirements of the GGRF
  - introduces a range of work packages for each of the five focus areas
  - introduces the potential and role of a Global Geodetic Centre of Excellence
- Concept Paper on "Establishing a Global Geodetic Centre of Excellence" (GGCE)
  - describes the potential and envisaged tasks of the GGCE
- Both reference documents were submitted to UN-GGIM-10 in 2020

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UNITED NATIONS COMMITTEE OF EXPERTS ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT

### Subcommittee on Geodesy

Version: 22 July 2020

## Position Paper on Sustaining the Global Geodetic Reference Frame

A plan to help achieve the long-term accuracy and accessibility of the Global Geodetic Reference Frame

#### 1. Introduction

#### 1.1 Background

The Global Geodetic Referent decisions and program deliver nationally integrated geospatis upon for social, environmental monitoring of progress of the for Disaster Risk Reduction, tl Action (SAMOA) Pathway, as initiatives.

The GGRF underpins all asper mapping and navigation fields for civil engineering, industria financial transactions, intellige management, environmental srobust alignment of spatial dat such as land use planning and DRAFT DOCUMENT FOR CONSULTATION

UNITED NATIONS COMMITTEE OF EXPERTS ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT

### Subcommittee on Geodesy

Version: 20 July 2020

## Concept Paper on Establishing a Global Geodetic Centre of Excellence

### 1 Background

The Global Geodetic Reference Frame (GGRF) is the foundation for evidence-based policies, decisions and program delivery. The GGRF underpins the collection and management of nationally integrated geospatial information and is used to monitor our dynamic Earth. It is relied upon for social, environmental and economic initiatives, Earth science, the measuring and monitoring of progress of the 2030 Agenda for Sustainable Development, the Sendai Framework for Disaster Raik Reduction, the Small Island Developing States Accelerated Modalities of Action (SAMOA) Pathway, and other global, regional and national development agenda and minitatives.

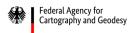
Recognizing the growing need for a high quality and sustainable GGRF to support good decision making to an ever-increasing location-based society, with inclusive social progress, environmental sustainability and economic development, the UN General Assembly adopted resolution 69:266' in February '015, entitled 'A Global Geodetic Reference Frame for Sustainable Development'.

At the ninth session of the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM), in 2019, in adopting decision 9/104, the Committee of Experts requested that the Subcommittee on Geodesy (The Subcommittee) explore a number of modalities to balance the longer-term vision, stability and operational requirements of the GGRF, including the establishment of a global geodetic centre of excellence in cooperation with UN.

<sup>1</sup> https://ggim.un.org/documents/A RES 69 266 E.pdf







# Tasks of the Global Geodetic Centre of Excellence – GGCE

## Tasks of the GGCE are tailored to the five focus areas:

- Enhance global cooperation and coordination
- Strengthen geodetic infrastructure
- Assist Member States in line with standards, policies and conventions
- Support education, training and capacity building
- Improve communication and raise awareness







# Establishment of the GGCE in Germany

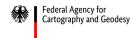
Offer of the German Federal Government was accepted and supported on 11.09.2020 at the 10th UN-GGIM Committee of Experts

## The GGCE in Germany

- located at the UN Campus Bonn
- financed and supported by BKG
- supported with virtual secondment by Norway
- Steering Committee (UN DESA + Germany)
- Technical Advisory Committee (SCoG, IAG, FIG, Space Agencies, ...)



UN Campus Bonn; Source: Press office of the city of Bonn





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## What's next?

## **Next Steps**

- Negotiations on a
- 'Agreement' (streamline the tasks for the GGCE Bonn)
- 'Verbal Notes' (agree upon the infrastructure on the UN campus)
- Negotiations between Germany and the United Nations began in autumn 2020
- Signing process has started and is expected to be completed in the coming months
- Thereafter, staff will be recruited and the GGCE can start!
- Develop participation of other partners in the GGCE



