



**United Nations Global Geodetic Centre of Excellence** 

The New UN Entity for Geodesy

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## Agenda



- UN-GGCE has been opened!
- The journey towards UN-GGCE
- What is UN-GGCE about?
- How does UN-GGCE fit in the geodetic landscape?
- Where are we now?





## UN-GGCE Venue at UN Campus in Bonn 29th – 31th March



- **UN-GGCE Opening Ceremony**
- Meetings of UN-GGCE
  - International Advisory
     Committee
  - Steering Committee
- Meeting of UN-GGIM
   Subcommittee on Geodesy

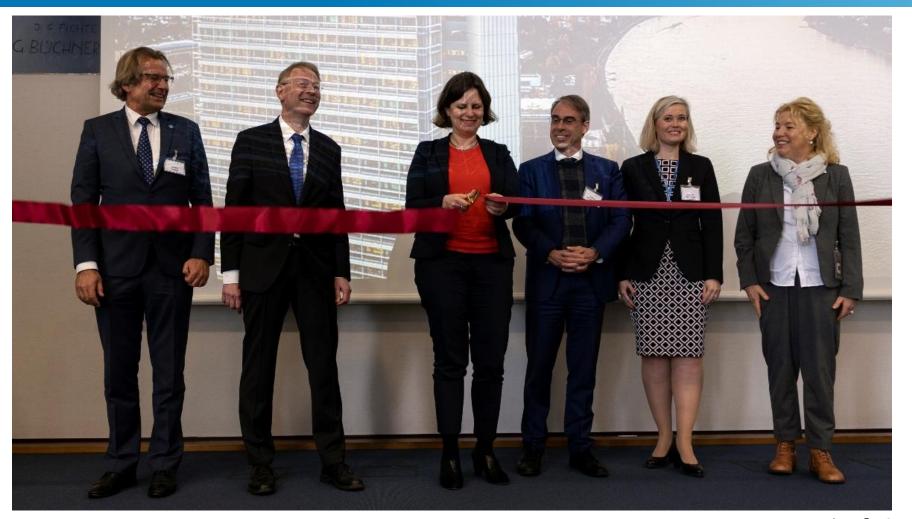
Representatives from:

United Nations, UN-Organisations, National Governments, Geodetic Institutions and organizations, Geodetic Experts, Geoscience Experts



Photo: ©BKG

#### The red ribbon for UN-GGCE has been cut



#### Photo: ©BKG

#### **Opening remarks:**

State Secretary Germany

Mrs. Juliane Seifert

 UNSG's Special Envoy for Ocean and UN-GGIM Global Geodesy Ambassador

Mr. Peter Thomson

State Secretary Norway

Mrs. Kjersti Bjørnstad

• Director UN SD (ECOSOC)

Mr. Stefan Schweinfest

Mayoress City of Bonn

Mrs. Melanie Grabowy

President BKG

Mr. Paul Becker

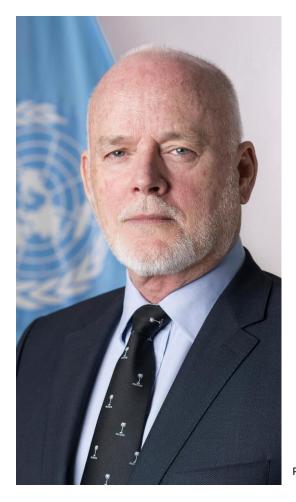
 Ambassador and Head of UN Campus Liaison Office

Mr. Rainer Lassig





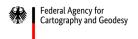
## United Nations Global Geodesy Ambassador applaud the establishment of the <u>UN-GGCE</u> in Bonn:



"This is a decisive step taken in the spirit of the 2015 UN resolution and I'm confident it will result in the enhancement of multilateral cooperation in the development of a more sustainable global geodetic reference frame."

His Excellency Ambassador Peter Thomson,
UN Secretary General's Special Envoy for the Ocean and
UN-GGIM Global Geodesy Ambassador

Photo: UN Photo/Mark Garten





## The journey towards UN-GGCE

2011	Establishment of the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM)
2013	UN-GGIM decided to formulate and facilitate a <b>draft resolution</b> for a Global Geodetic Reference Frame ( <b>GGRF</b> )
2015	UN General Assembly <b>adopted resolution 69/266</b> 'A Global Geodetic Reference Frame for Sustainable Development'
2016	UN-GGIM <b>decided to elevate</b> the GGRF <b>Working Group</b> to a Subcommittee on Geodesy
2017	Inauguration of the UN-GGIM <b>Subcommittee on Geodesy</b> on the margins of the Fifth UN-GGIM High Level Forum in Mexico City
2019	UN-GGIM supported the <b>proposal</b> from the Subcommittee on Geodesy to establish a Global Geodetic <b>Centre of Excellence</b>
2020	UN-GGIM welcomed Germany's offer to host the UN-GGCE at the UN Campus in Bonn, Germany
2022	<b>Signing of an Agreement</b> between UN Department of Economic and Social Affairs and the German Federal Ministry of the Interior and Community to establish the UN-GGCE
2023	Opening of the UN Global Geodetic Centre of Excellence in Bonn, Germany





## Documents / Links

A/RES/69/266 United Nations Distr.: General **General Assembly** 11 March 2015 Resolution adopted by the General Assembly on 26 February 2015 [without reference to a Main Committee (A/69/L.53 and Add.1)] 69/266 FINAL DRAFT FOR ENDORSEMENT UNITED NATIONS COMMITTEE OF EXPERTS ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT Subcommittee on Geodesy Version: 29 July 2021 E/C.20/2021/7/Add.2 coordinat integrated **Position Paper on** and shari other sou Sustaining the Global Geodetic Reference Frame A plan to help achieve the long-term accuracy and accessibility of the Global geospatia Geodetic Reference Frame project of which the

FINAL DRAFT FOR ENDORSEMENT

UNITED NATIONS COMMITTEE OF EXPERTS ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT

**Subcommittee on Geodesy** 

Version: 29 July 2021

E/C.20/2021/7/Add.3

Concept Paper on Establishing a Global Geodetic Centre of Excellence

- Resolution A/RES/69/266 https://ggim.un.org/documents/A RES 69 266 E.pdf
- Position Paper on GGRF E-C.20-2021-7-Add-2 Position Paper on Sustaining the GGRF 29Jul202 1.pdf (un.org)
- Concept Paper on UN-GGCE E-C.20-2021-7-Add 3 Concept Paper on GGCE 29Jul2021.pdf (un.org)
- Link to the Web page of UN-GGIM and UN-GGCE https://ggim.un.org/UNGGCE/



ity for Geodesy Jan Dostal , 05/24/2023 | Page 7



## UN-GGCE's overarching goal

#### **Objective**

 To support, within available resources, the implementation of General Assembly resolution 69/266 'A Global Geodetic Reference Frame for Sustainable Development'.

#### Mission

 To assist Member States and geodetic organisations coordinate and collaborate to sustain, enhance, access and utilise the Global Geodetic Reference Frame.

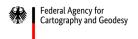
#### Vision

To help develop an accurate, accessible and sustainable Global Geodetic
 Reference Frame to support science and society and global development.

#### **Strategy**

 To assist Member States fill some of the critical capability and capacity gaps across the five focus areas.

(from Concept paper on Establishing GGCE)

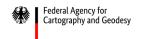




### Focus Areas of UN-GGCE

- 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







## Fundamental to sustainable development

#### Assisting countries by

- Support 2030 Agenda for Sustainable Development Goals (SDG)
- Facilitate access to GGRF across the world
- Facilitate participation on development and maintenance of GGRF
- Facilitate education and training in respect to geodetic knowhow and technology
- Raise funds and support the **funding** for joint projects
- Facilitate technical assistance, especially for developing countries





#### TRANSFORMING OUR WORLD:



THE 2030 AGENDA FOR SUSTAINABLE DEVELOPMENT



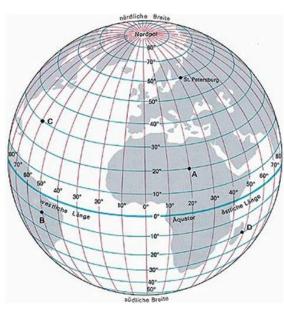
#### Global Geodetic Reference Frame - GGRF

#### **Definition**

The Global Geodetic Reference Frame (GGRF) is the authoritative, reliable, high accuracy and global spatial referencing infrastructure. The GGRF includes the celestial and terrestrial reference frame products, the infrastructure used to create it, and the data, analysis and product generation systems. The GGRF also includes gravimetric observations, products and height systems, which underpin measurements of elevation.

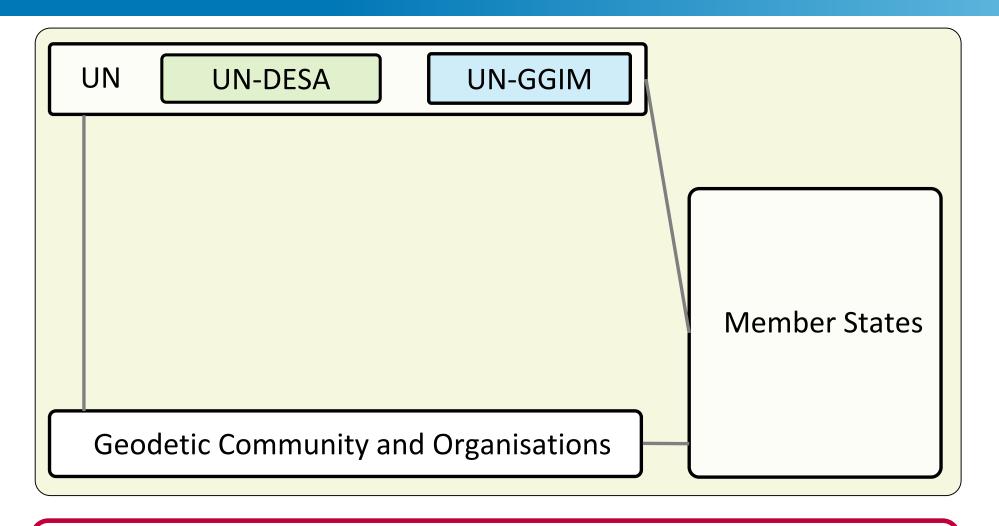
#### **Purpose**

- Foundation for evidence-based policies and decision makers
- Underpins management of nationally integrated geospatial information
- Used to monitor the dynamic Earth
- Used for social, environmental and economic initiatives
- Monitoring the progress of the Agenda for Sustainable Development

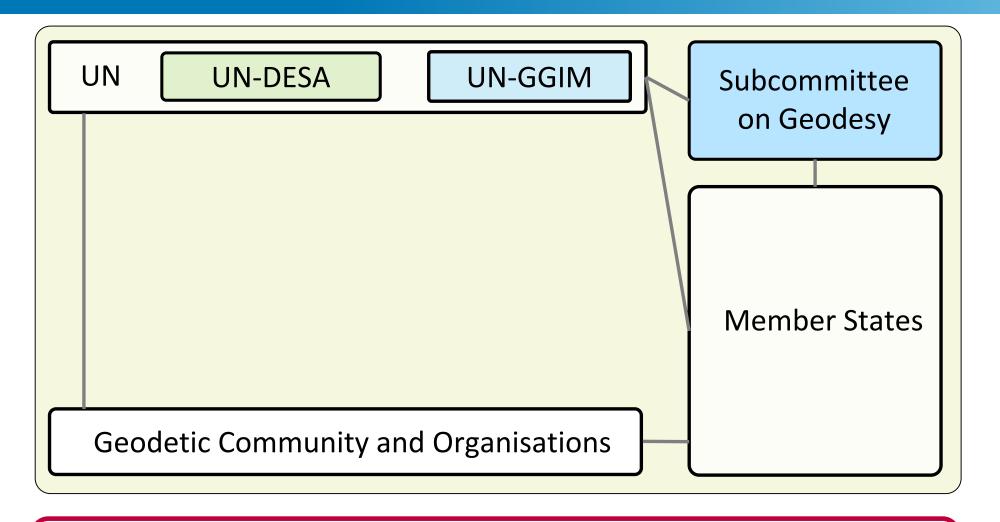




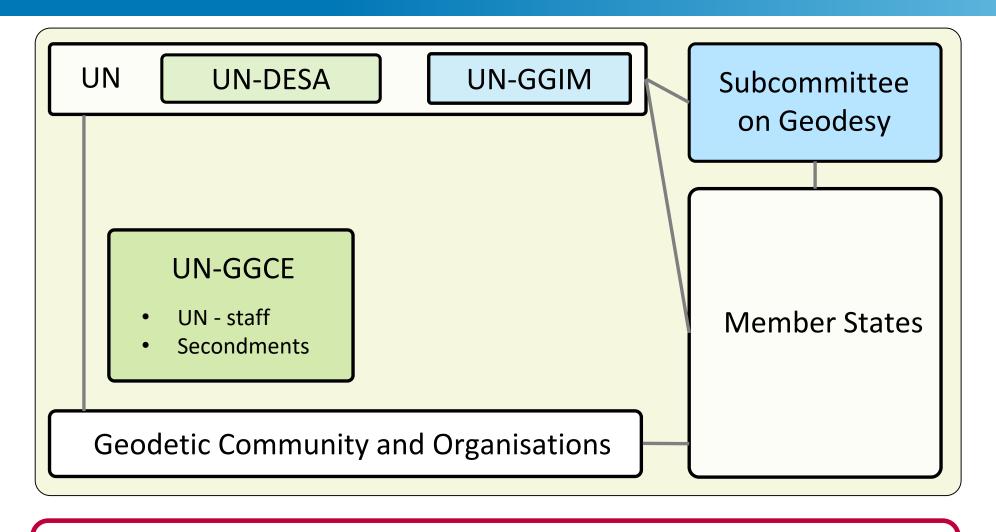




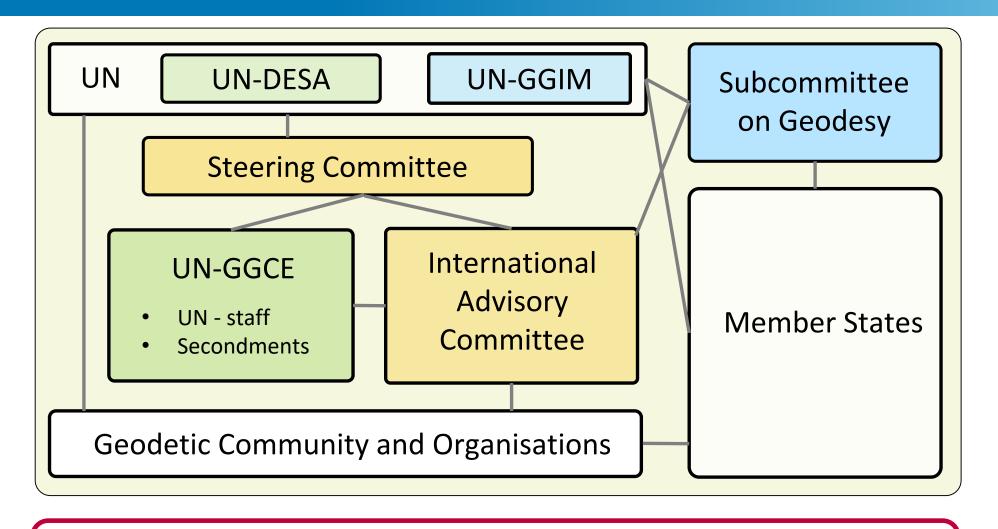










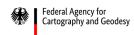




## Steering Committee (SC)

- Purpose: Strategic advice on the Centre's annual work plan, its implementation, and the reporting of the budget
- Composition of the Committee
  - 6 members
  - Representants from:
    - UN-DESA (3)
    - Hosting Country Germany (3)
- Annual meeting







## International Advisory Committee (IAC)

- Purpose: guidance and advice on the substantive annual program of work of the Centre in consultation with the Head of the Centre.
- Term of Reference adopted
- Annual in-person meeting
- Composition of the Committee
  - Currently 20 members
  - Membership: max. two consecutive 2 years terms
  - Representants from:

Geodetic and GGRF Stakeholders (IAG,FIG,...); Geographical Regions; Interdisciplinary Fields; Space Agencies; Private Sector

- Co-Chairs
  - Ms. Ingrid Vanden Berghe (UN-GGIM, National Geographic Institute, Belgium) one year term
  - Mr. Albert Momo (Private Sector, Trimble)

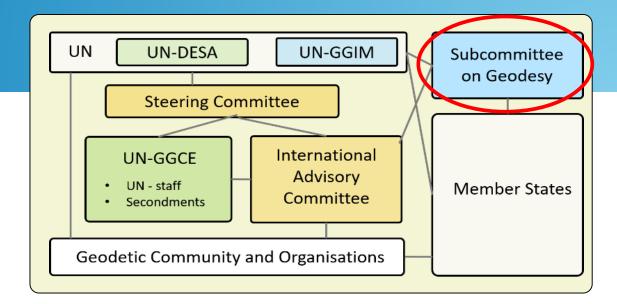


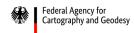




## Subcommittee on Geodesy (SCoG)

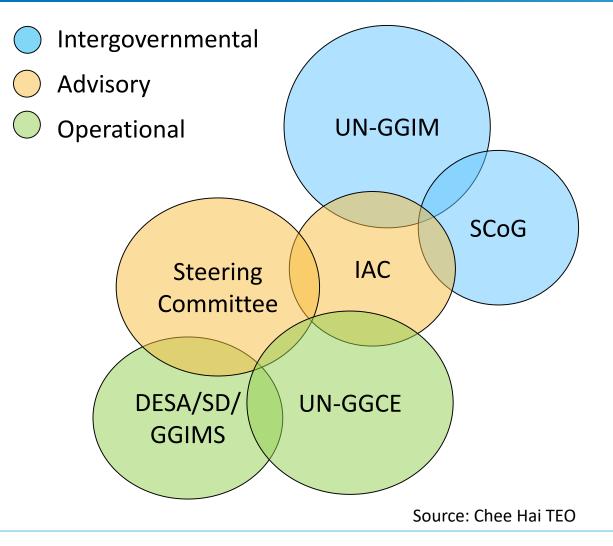
- Approx. 40 members representing MS (Regional Committees)
- Additionally partners as members: IAG, FIG, IUGG, ISO, NASA, ICG
- Co-Chairs:
  - Nicholas Brown (Geoscience Australia)
  - Fernand Bale (Geographic and Digital Information Center of Cote d'Ivoire)
- **Bureau**: Abdullah AlQahtani (Saudi Arabia), Calvin Klatt (Canada), Sergio Cimbaro (Argentina), Johannes Bouman (Germany), Zuheir Altamimi (France), Laila Løvhøiden (Norway), Dan Roman (USA)
- New working groups on:
  - Global Geodesy Needs Assessment (Zuheir Altamimi)
  - State of Geodesy Report (Laila Løvhøiden)
  - Capacity and Education (Dan Roman) former ETCB WG







#### Constellation of the different bodies in relations



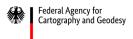
- The SCoG formally reports to UN-GGIM, and to no other body.
- The UN-GGCE does not report directly to UN-GGIM.
- The IAC reports the work of the UN-GGCE to the SC and into UN-GGIM.
- The SC does not report to UN-GGIM. It oversees the IAC and the UN-GGCE.
- DESA/SD provides oversight for the SC and the UN-GGCE, but not the IAC.
- UN-GGCE program requests to the SCoG are fed through the IAC, which includes members of the SCoG.
- The SCoG may provide program guidance to the UN-GGCE, but through the IAC.





## UN-GGCE - Where are we heading / Tasks

- 1) Global Geodesy Needs Assessment
- 2) State of Geodesy Report
- 3) Global Geodesy Development Plan
- 4) Global Coordination, Coherence, and Partnership
- 5) Awareness Raising and Advocacy
- 6) Improving National Contributions to the GGRF
- 7) Communication and Knowledge Management





## UN-GGCE - Where are we now/ staff



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

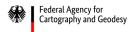
#### **UN Staff** - Selection process ongoing

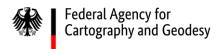
- Head
- Deputy
- Administrative assistance
- Geodesy professional

#### **Secondments**

- Germany: physical two from 1 September 2023
- Norway: virtual one for two years from 1 Mai 2023
- France and Spain: virtual consideration









# Thank you for your kind attention!

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Photo: UN Bonn



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