



# GEODESY FORUM



**Stronger. Together.**

United Nations Global Geodetic Centre of Excellence and  
United Nations Global Geospatial Information Management  
Subcommittee on Geodesy

## **Introductory remarks**

**Ambassador Andreas Løvold**

*Permanent Mission, Norway*

## **The compass is set; the map is being drawn; then the journey**

**Mr Nicholas Brown**

*Head of Office, UN-GGCE*

## **Panel Discussion**

**Mr Paula Cirikiyasawa**

*Permanent Secretary Dept. Lands & Mineral Resources (Fiji)*

**Mr Ahmed AlQahtani**

*UN Second Committee (Kingdom of Saudi Arabia)*

**Ms Ingrid Vanden Berghe**

*Administrateur-General NGI (Belgium)*

**Ms Laila Løvhøiden**

*Special Adviser Kartverket (Norway)*

**Mr Paul Becker**

*President BKG (Germany)*

**Mr Nicolas Paparoditis**

*Deputy Director IGN (France)*



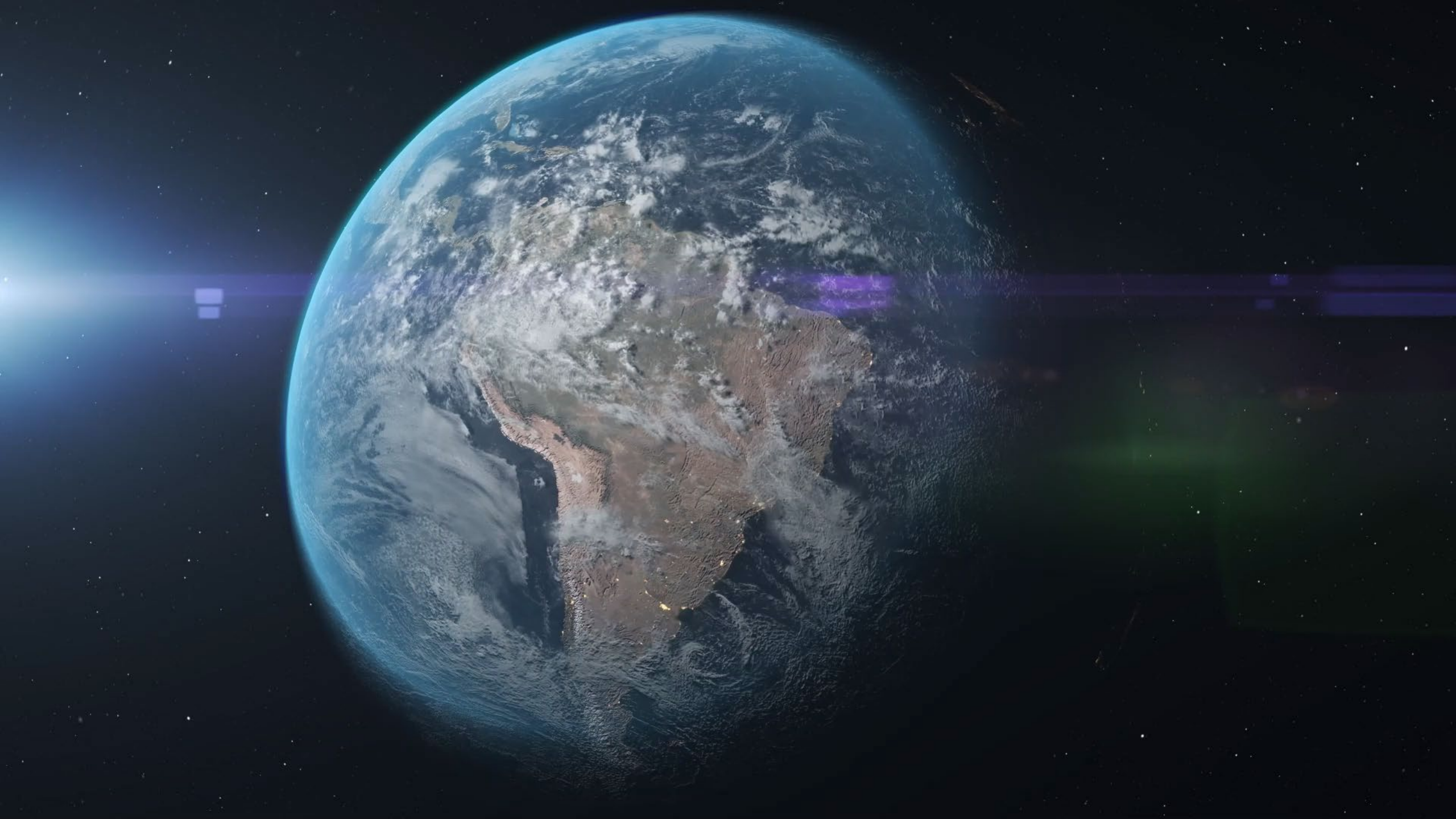
## UNITED NATIONS GLOBAL GEODETIC CENTRE OF EXCELLENCE

Celebrating 10 years of the GGRF Resolution

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**Nicholas Brown  
Head of Office, UN-GGCE**



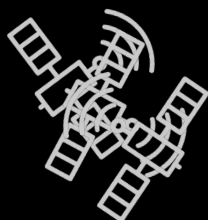




GEOGRAPHIC AXIS ●  
SPIN AXIS ○



SPACE REFERENCE  
FRAME



# Operating Critical Infrastructure

“15 of 18 critical infrastructure and key resources sectors relied on the Global Positioning System (GPS) including telecommunications, emergency services and financial exchanges.”

*~ U.S. Department of Homeland Security*



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# Driving Economic Growth

“Over the next decade, revenue from GNSS, Earth Observation and satellite telecommunications (80% of the space industry market revenue) has growth rate of ~9%”

*~ EUSPA Market Report and Euroconsult*



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# UN General Assembly Resolution (2015)



UN General Assembly resolution (2015) “A global geodetic reference frame for sustainable development”



# UN General Assembly Resolution (2015)

The resolution called on Member States to:

- enhance **global cooperation** in providing technical assistance, especially for **capacity development** in geodesy for developing countries
- implement **open sharing** of geodetic data, standards and conventions,
- commit to improving and maintaining appropriate **national geodetic infrastructure**
- engage in **multilateral cooperation** that addresses infrastructure gaps
- develop **outreach programmes** that make geodesy more visible and understandable to society.

# Focus of the UN-GGCE

**EVIDENCE**

**AWARENESS**

**CAPACITY**

**GOVERNANCE**



Geodesy doesn't have a strong international body with policy making capability.

## 1. **Multilateral Memorandum of Understanding [led by UN-GGCE]**

- Government agencies / departments, organizations, associations, private sector
- Non-binding
- Operational on 10 March 2025
- 44 participants so far

## 2. **Bilateral / Regional Agreements**

## 3. **Intergovernmental Organization**

- UN-GGCE is developing an Options Paper to outline how Member States could strengthen governance arrangements







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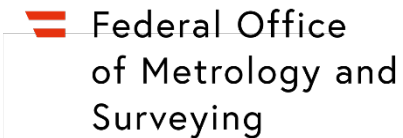
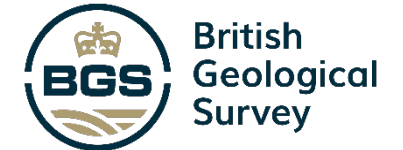
# Capacity Development

- Member States identified a need for more tailored geodetic assistance which is specific to Member States capacity, capability and requirements.
- Build geodetic capacity across Member States with a particular focus on Least Developed Countries (LDCs) and Small Island Developing States (SIDS).
- 5 Capacity Development workshops
  - Europe | 17-21 February 2025 (Bonn, Germany)
  - Africa | 19-23 May 2025 (Nairobi, Kenya)
  - Asia-Pacific | 30 June-4 July 2025 (Bangkok, Thailand)
  - Americas | 3-7 November 2025 (Santiago, Chile)
  - Arab States | TBA 2025 (Riyadh, Kingdom of Saudi Arabia)



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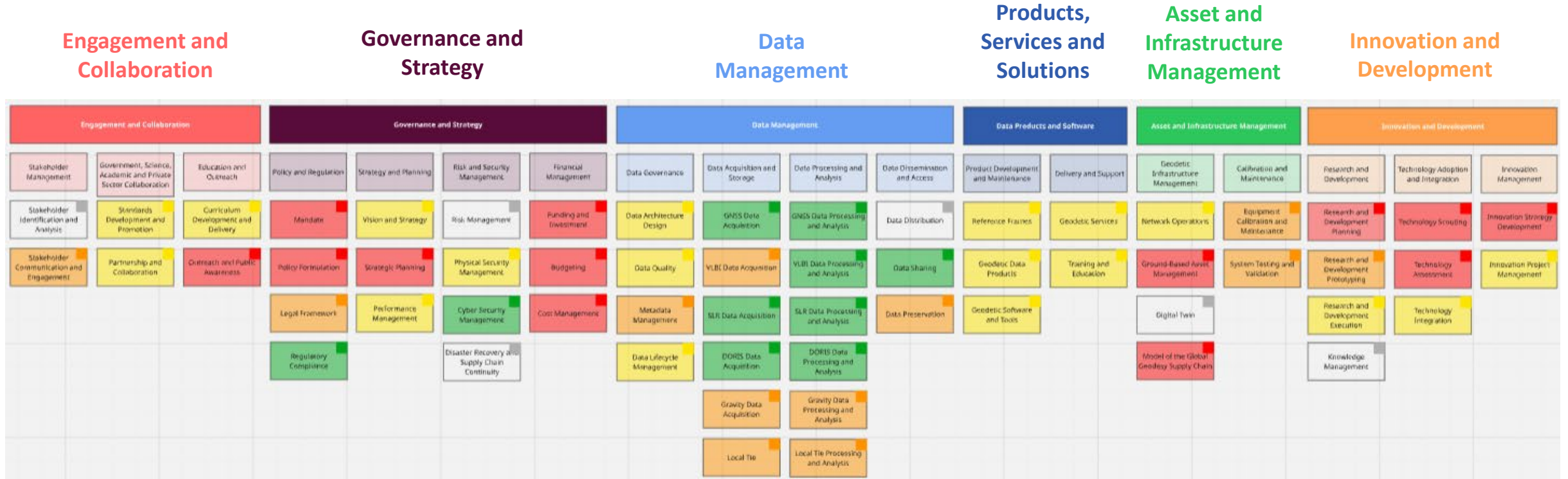
# Partners (30 and growing)



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# Maturity Assessment (Draft)



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# What Member States need?

- A 'fit for purpose' global geodesy supply chain
  - Ensure satellites don't degrade or fail which would threaten critical infrastructure and economic development
- Define and detail what a 'fit for purpose' global geodesy supply chain look like?
  - Review the current supply chain
  - Determine work to be done to make it 'fit for purpose'

