

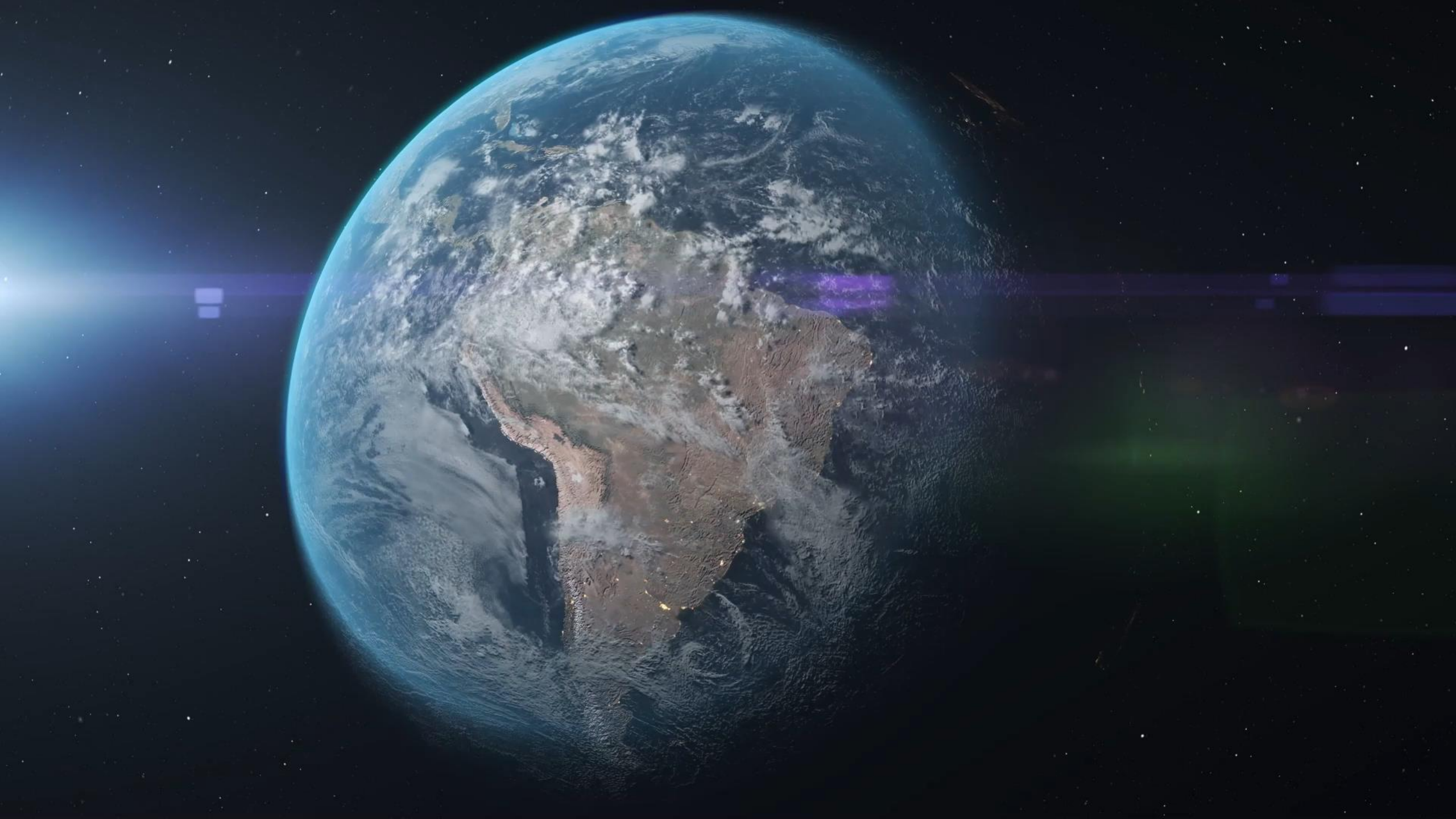


UNITED NATIONS GLOBAL GEODETIC CENTRE OF EXCELLENCE

South African Geodesy Workshop

1st Joint Development Plan for Global Geodesy

Nicholas Brown
Head of Office, UN-GGCE

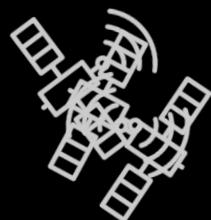




GEOGRAPHIC AXIS ●
SPIN AXIS ○



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

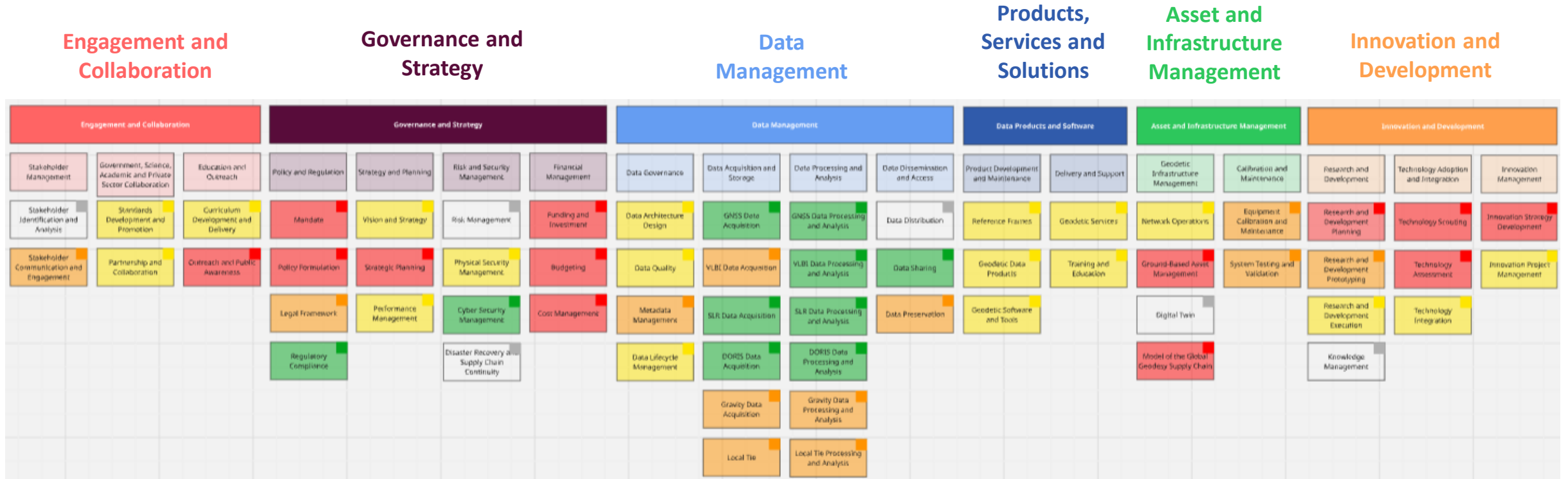
AWARENESS

CAPACITY

GOVERNANCE



Maturity Assessment (Draft)



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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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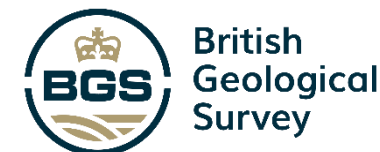
Capacity Development

- 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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