



Forum on the First Joint Development Plan for Global Geodesy

Tuesday 6 August 2024

11:30 am - 12:45 pm

Conference room 4 (CR-4 GA Building)
United Nations Headquarters in New York



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



Introduction

Ingrid Vanden Berghe

Administrateur-General, NGI, Belgium

Strengthening the global geodesy supply chain together

Nicholas Brown

Head of Office, UN-GGCE

Panel Discussion

Alison Rose

Chief of Space Division, Geoscience Australia

JN Markiel

US National Geospatial-Intelligence Agency

Richard Gross

President, International Association of Geodesy

John Nyberg

Technical Director, International Hydrographic Organization

Albert Momo

Founder and CEO, GeoDEV International

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



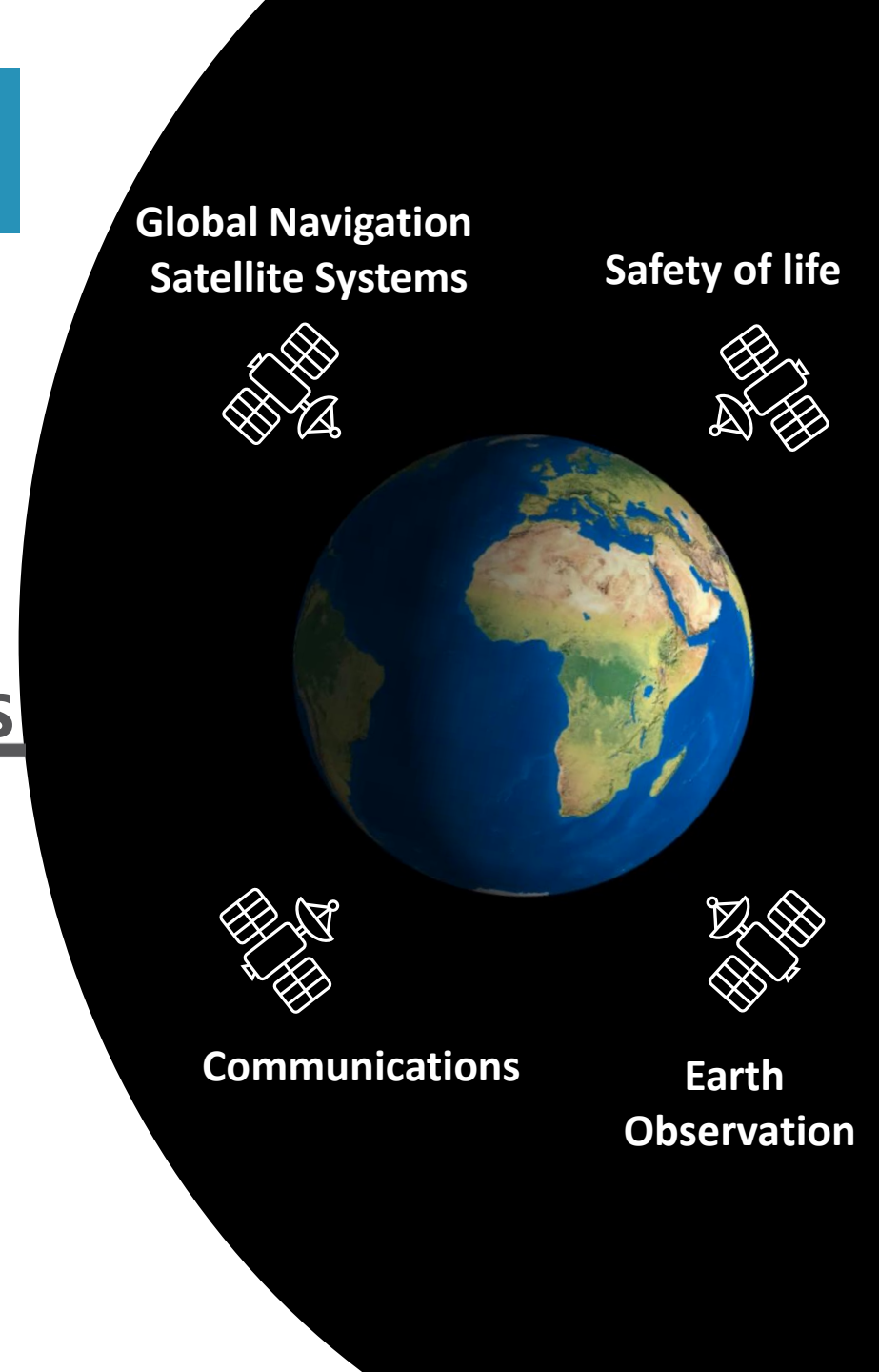
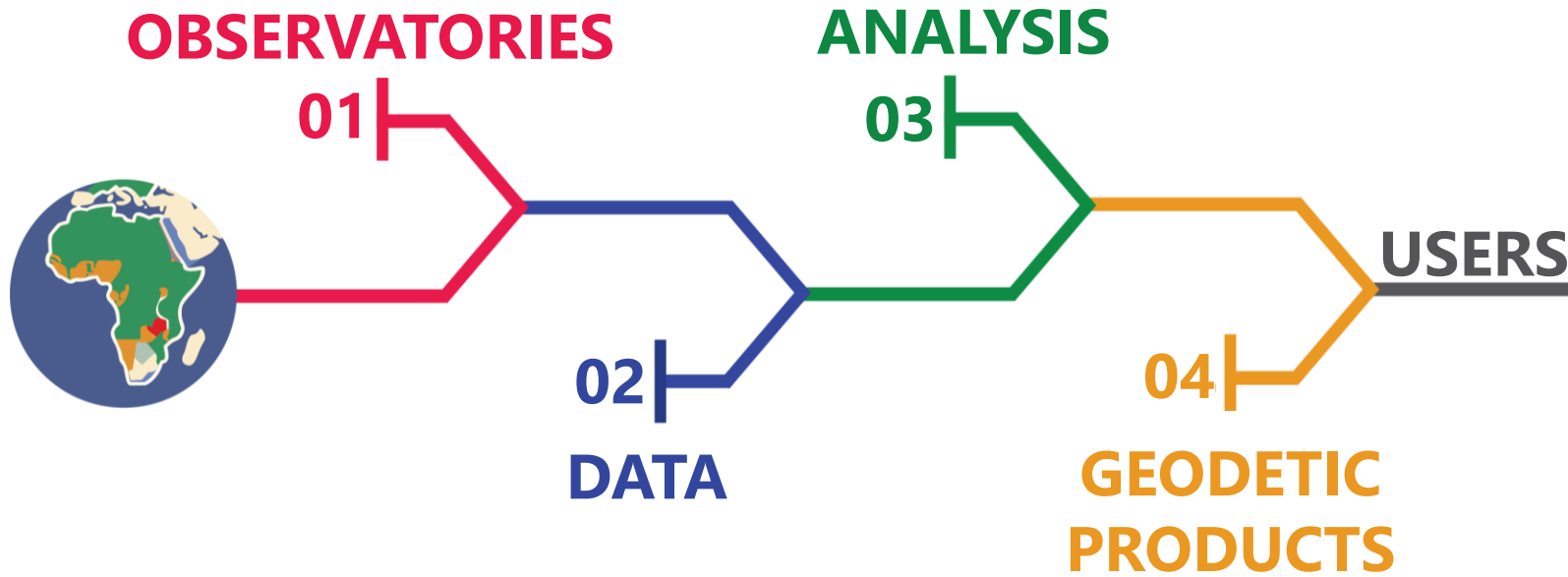
Driving Economic Development

“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



Global Geodesy Supply Chain



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UN General Assembly Resolution (2015)



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

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“Doomsday” scenario

1. **Short** timeframe

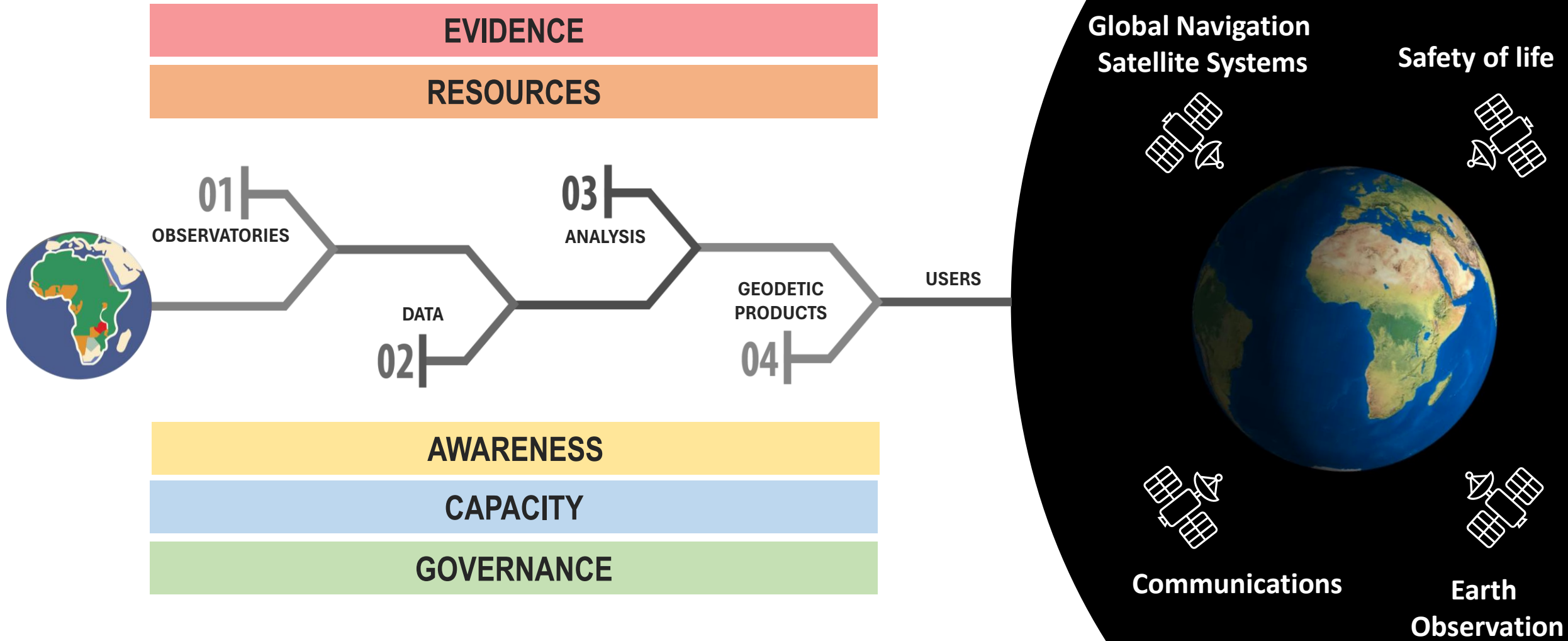
- e.g. Coordinated cyber-attack, space debris collision event, deliberate attack
- Member States, space agencies and satellite operators are aware of these risks and are actively working to mitigate them.

2. **Unknown** timeframe

- Degradation or failure of the global geodesy supply chain
- Many Member States, space agencies and satellite operators are **not** aware of these risks and are **not** actively working to mitigate them.



Weaknesses in the Global Geodesy Supply Chain



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1st Joint Development Plan for Global Geodesy

- Joint Development Plan with activities to:
 1. **Avoid further degradation** of the supply chain (support current operational requirements)
 2. **Robust** (improve reliability)
 3. **Next Generation** (meet more ambitious requirements)
- Plan will include activities for UN-GGCE, Member States and partners
- Draft available for review and feedback (mid June 2024)
- Final Draft presented to fourteenth Session of the United Nations Committee of Experts on Global Geospatial Information Management (August 2024)



Panel discussion

Ms Alison Rose, Chief of Space Division, Geoscience Australia

Dr JN Markiel, US National Geospatial-Intelligence Agency

Mr Richard Gross, President, International Association of Geodesy

Mr John Nyberg, Technical Director, International Hydrographic Organization

Mr Albert Momo, Founder and CEO, GeoDEV International





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