

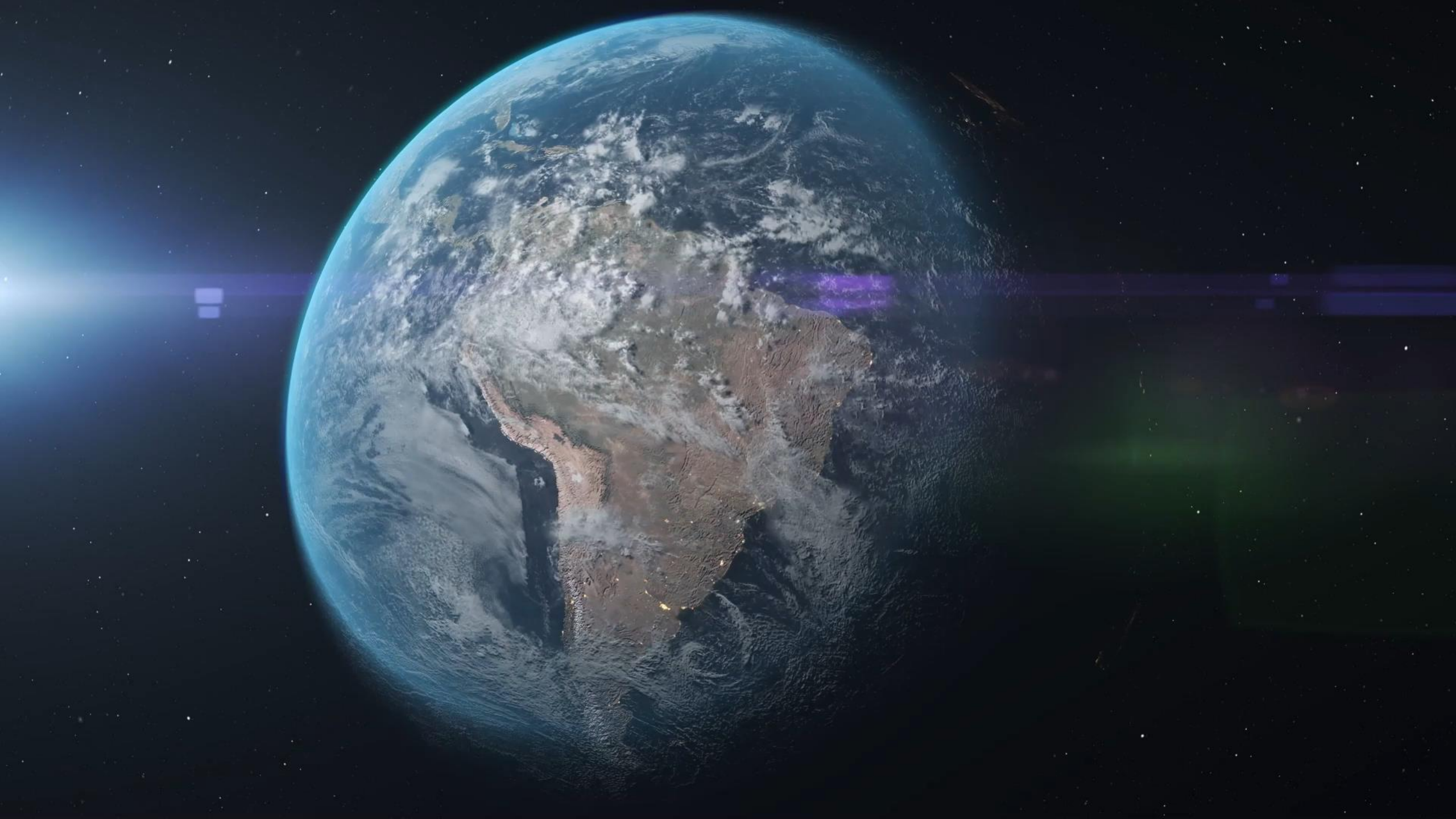


UNITED NATIONS GLOBAL GEODETIC CENTRE OF EXCELLENCE

UN-GGIM EUROPE MEETING | JUNE 2025

Operation - Don't let satellites fail

Nicholas Brown
Head of Office, UN-GGCE





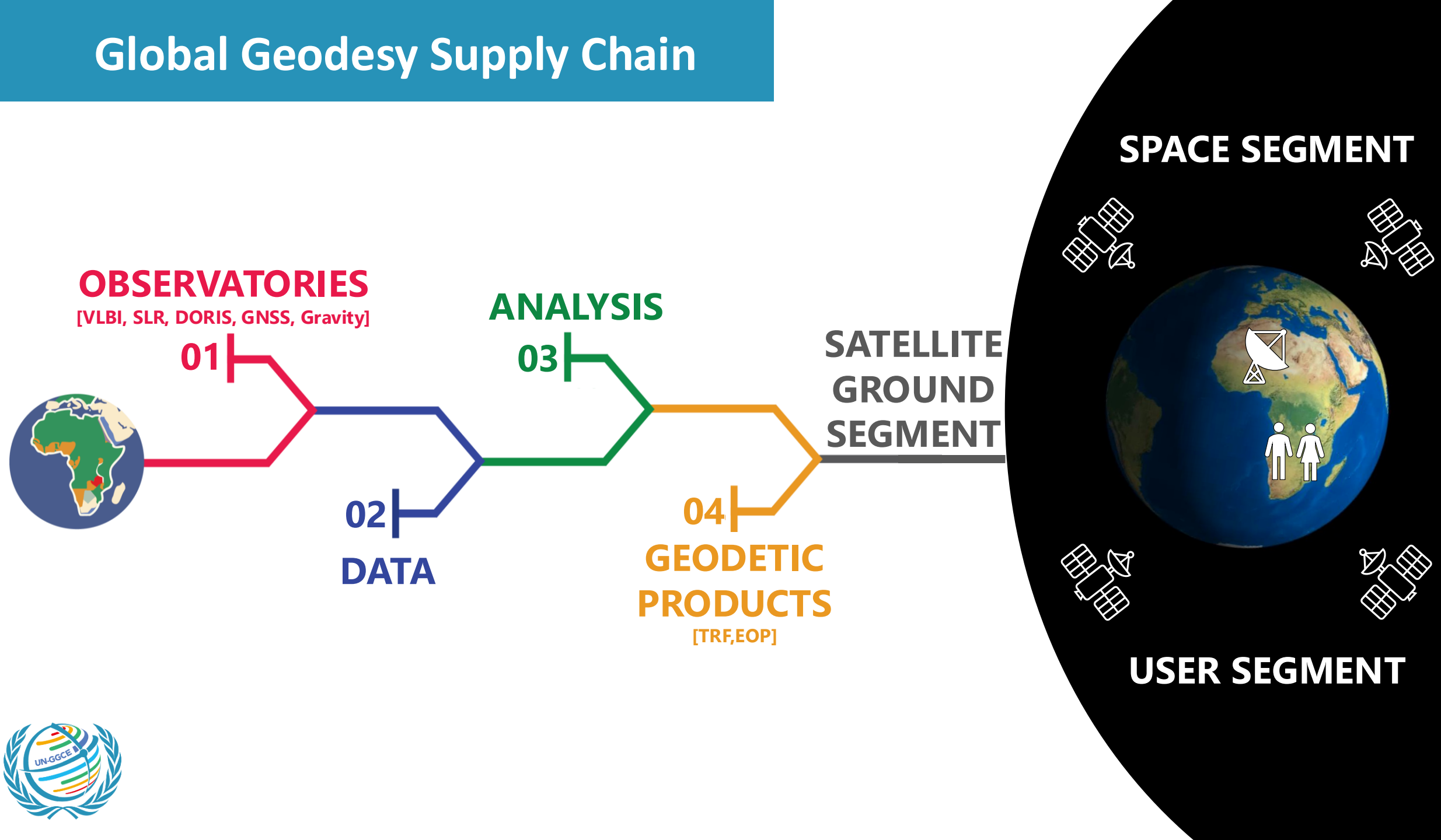
GEOGRAPHIC AXIS ●
SPIN AXIS ○



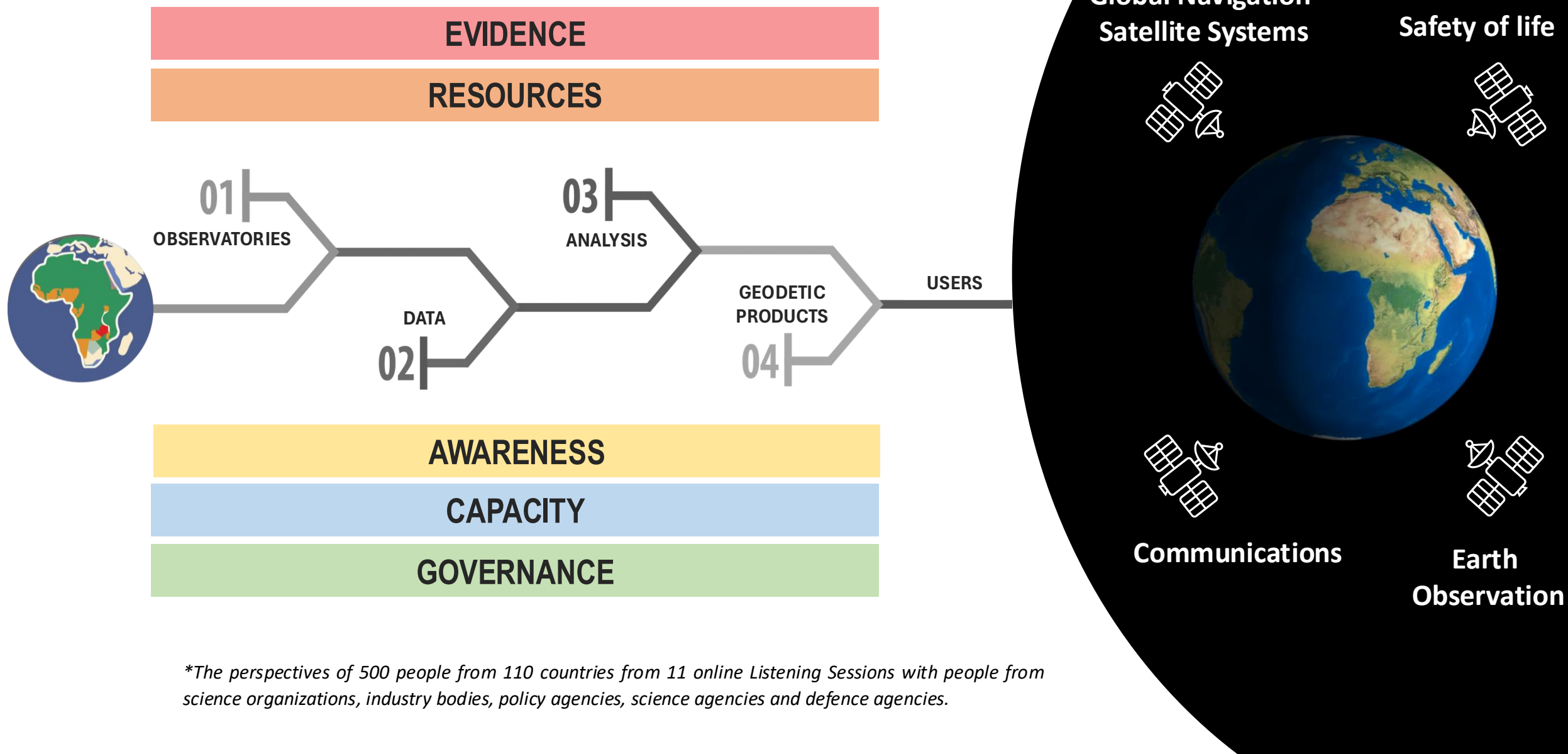
SPACE REFERENCE
FRAME



Global Geodesy Supply Chain



Weaknesses in the Global Geodesy Supply Chain



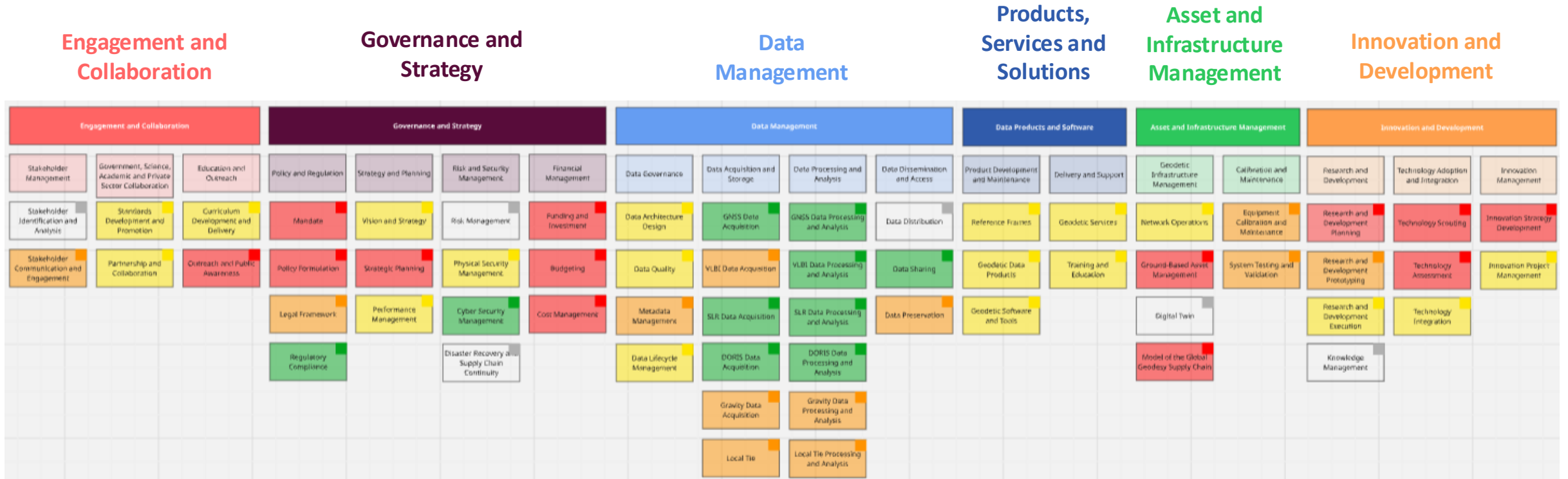
**The perspectives of 500 people from 110 countries from 11 online Listening Sessions with people from science organizations, industry bodies, policy agencies, science agencies and defence agencies.*

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’



Maturity Assessment (Draft)



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'Fit for purpose' global geodesy supply chain

Engagement and Collaboration

Governance and Strategy

Data Management

Products, Services and Solutions

Asset and Infrastructure Management

Innovation and Development



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Governance and Strategy

- Geodesy doesn't have a strong international body with policy making capability.
 - UN-GGCE is working to strengthen this ...
- 1. Multilateral Memorandum of Understanding [led by UN-GGCE]**
 - Government agencies / departments, organizations, associations, private sector
 - Non-binding
 - Operational on 10 March 2025
 - 43 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



Advocacy strategy

Over the next 18 months, UN-GGCE aims to engage European institutions through a multi-layered campaign to:

- **Raise awareness** of geodesy's critical role in achieving the EU's strategic priorities
- Build an understanding the **reliance on geodesy 'source material'**, particularly for Europe's space, navigation, and Earth observation programmes (Galileo, EGNOS, and Copernicus)
- Generate political and institutional commitment to create and resource a future European geodesy '**source programme**' in order to ensure a resilient future geodetic supply chain



Main strategic priorities

Robust infrastructure
and systems

Economic
resilience

Security and
defence

Enhancing
capabilities

Reduced reliance on
external partners

Strategic
autonomy

Digital
transform-
ation

Data and connectivity
at the centre

Research and
innovation

Competitive
-ness

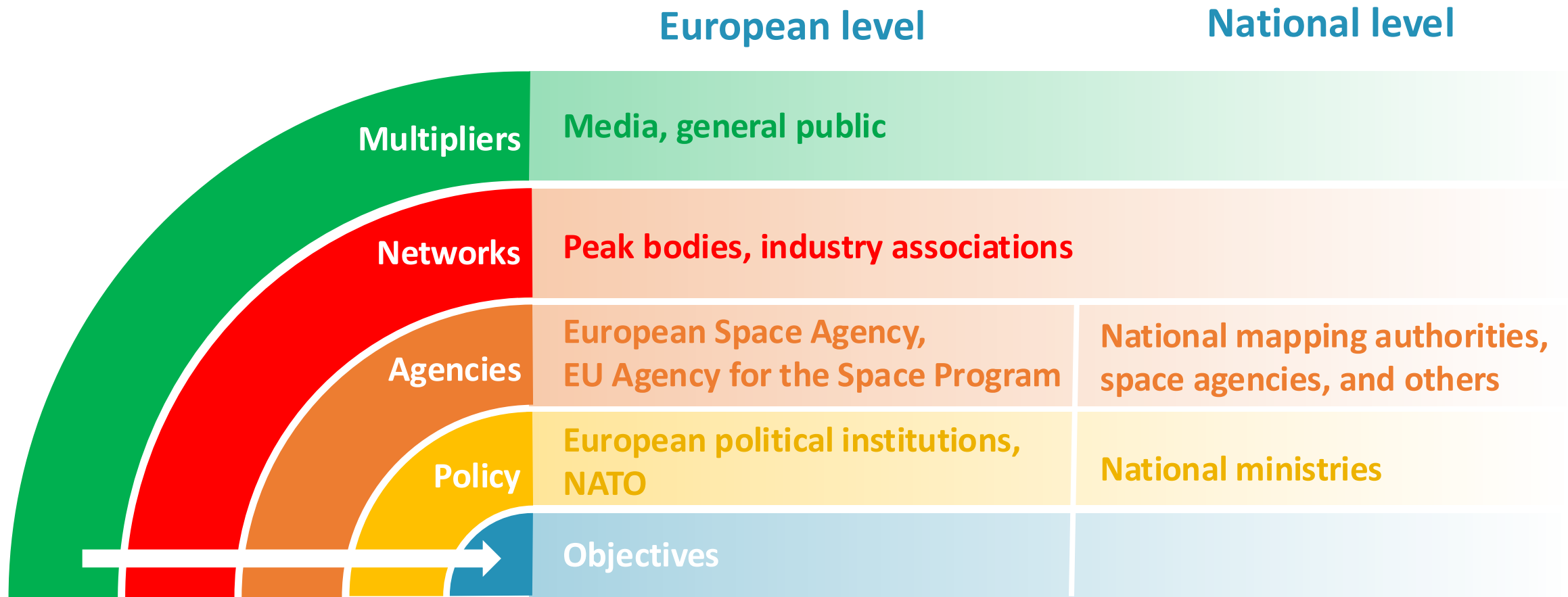
Climate

Monitoring and
mitigation



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Key actors



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Key touch points

Multiannual Financial Framework (MFF) 2028-2034:

- EU's long-term budget focused on future priorities and objectives
- Draft expected July 2025, to be negotiated and then adopted unanimously by Member States (with consensus of the Parliament)

Earth Observation Governmental Service (EOGS):

- Space data to support EU decision-making on security and defence
- Will be available to Member States in the next MFF

European Resilience from Space (ERS) satellite program:

- ESA to seek 1 billion euros from member states at the ESA ministerial conference in November for the program's first phase



Next steps

- **Advocate for geodesy** in national- or European-level fora, especially towards the upcoming MFF
- Inform UN-GGCE of relevant **initiatives or projects** being proposed or undertaken (especially at national level)
- Suggest **contacts or channels** to be used as potential advocates for geodesy, especially within key European institutions
- Collaborate with us on the development of **policy documentation** or **advocacy materials**, as this will help align messaging
- **Request any support** that we can provide to you

