

4TH GEO

BLUE PLANET SYMPOSIUM

4-6 July 2018 – Toulouse, France



Implemented by:
MERCATOR OCEAN



The Group on Earth Observations

Douglas Cripe, GEO Secretariat

Earth Observations

In, on and around the Earth

What is Earth observation?

Earth observation is the gathering of information about physical, chemical and biological systems in, on and around the Earth.

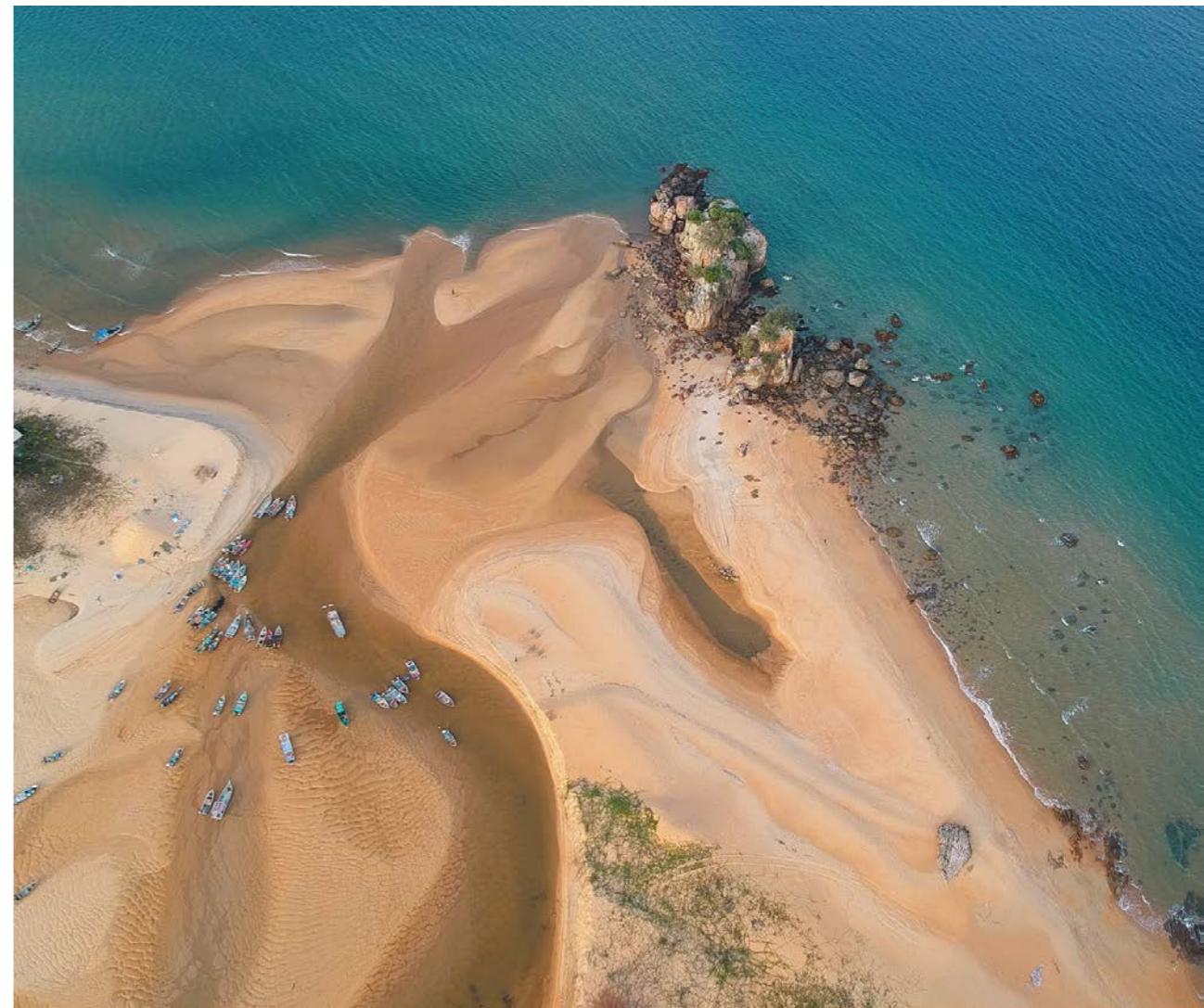


Earth Observations

In, on and around the Earth

What are Earth observations important?

Earth observations are crucial for informed decision making on a myriad of issues that affect human well-being, the environment and the economy.



Group on Earth Observations

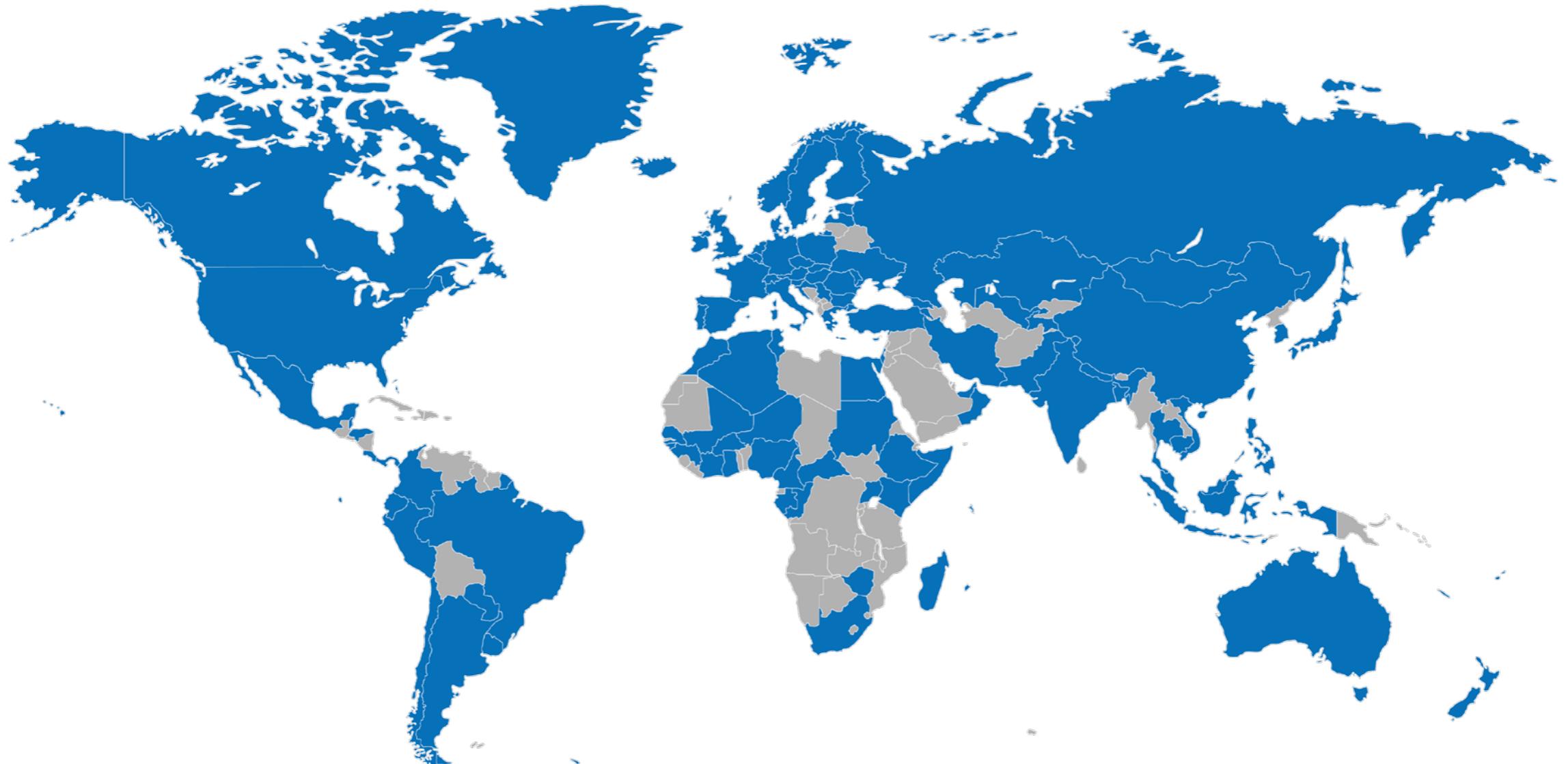
An overview

What is GEO?

GEO is an intergovernmental partnership working to improve the availability, access and use of Earth observations for the benefit of society.



MEMBER COUNTRIES

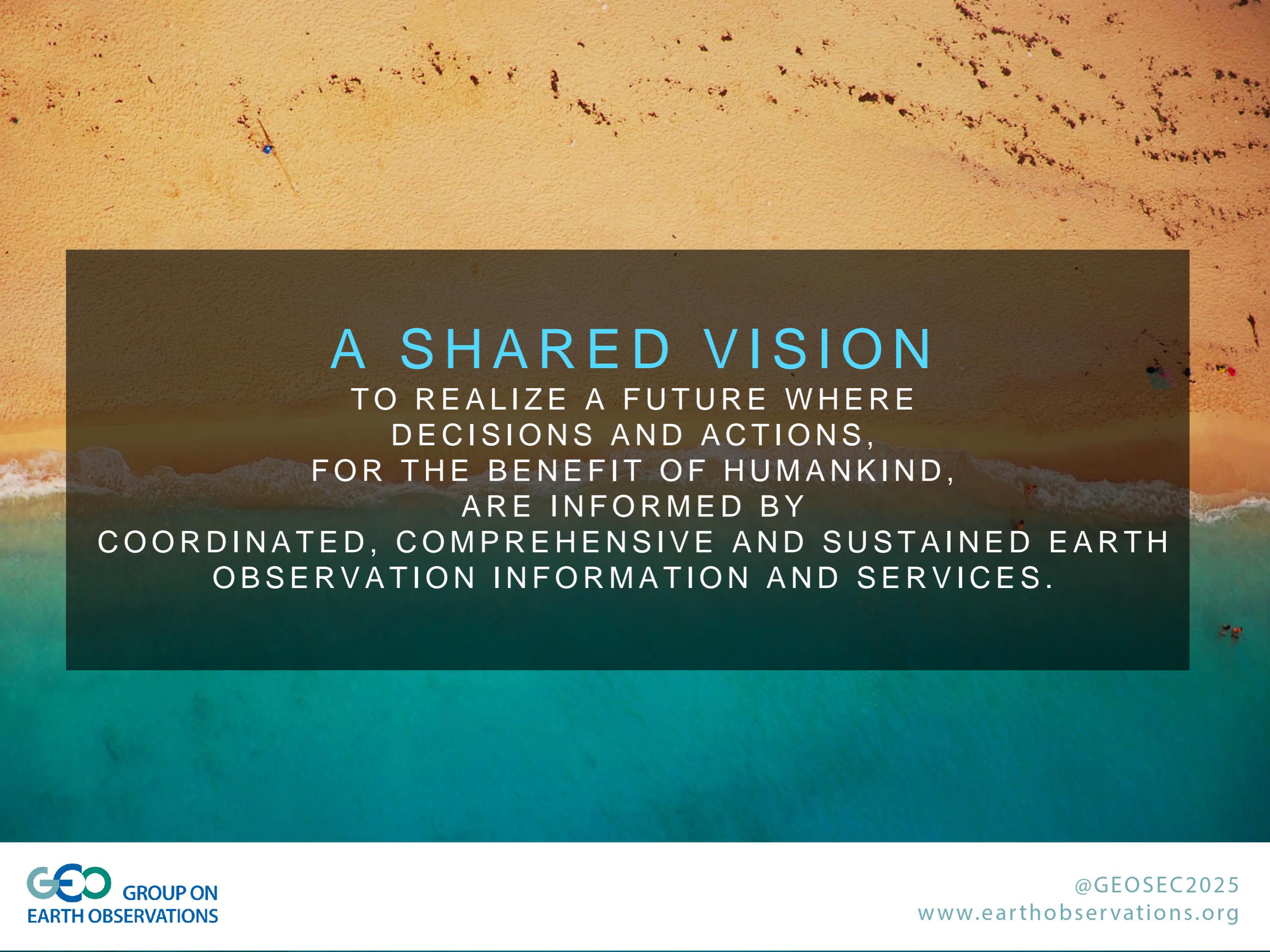


Africa: **27** - Asia/Oceania - **21**, Europe: **34** - C.I.S: **7** - Americas: **16**

Total: 105

126 PARTICIPATING ORGANIZATIONS





A SHARED VISION
TO REALIZE A FUTURE WHERE
DECISIONS AND ACTIONS,
FOR THE BENEFIT OF HUMANKIND,
ARE INFORMED BY
COORDINATED, COMPREHENSIVE AND SUSTAINED EARTH
OBSERVATION INFORMATION AND SERVICES.

GEO IN NUMBERS

7 continents

8 societal benefit areas

12 years



73 work programme activities



105 member governments

126

participating organizations



5,000 data providers



400,000,000

Earth observations

Data Sharing

Open Data for the Benefit of Humankind

Why does open data matter?

Societal benefits arising from Earth observations can only be fully achieved through the open sharing of data, information, knowledge, products and services.



Data Sharing

Open Data for the Benefit of Humankind

How do countries benefit from open data?

There are many diverse benefits and opportunities from providing open data for unrestricted use worldwide.

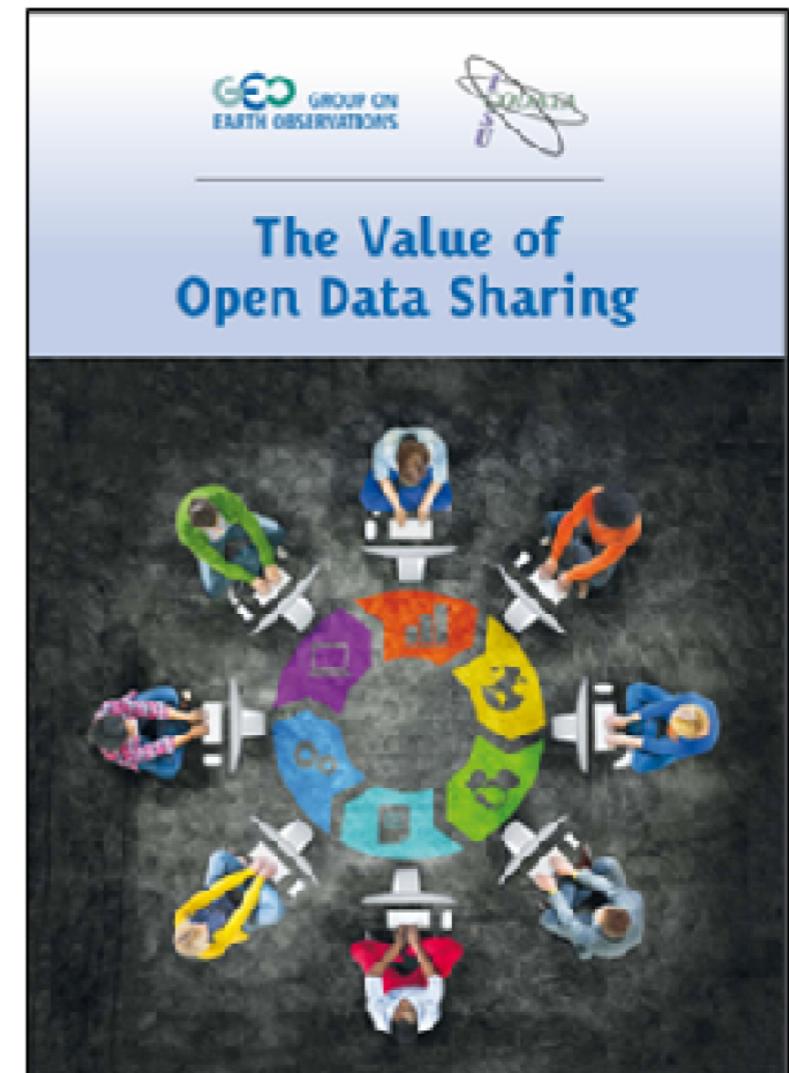
ECONOMY

EDUCATION

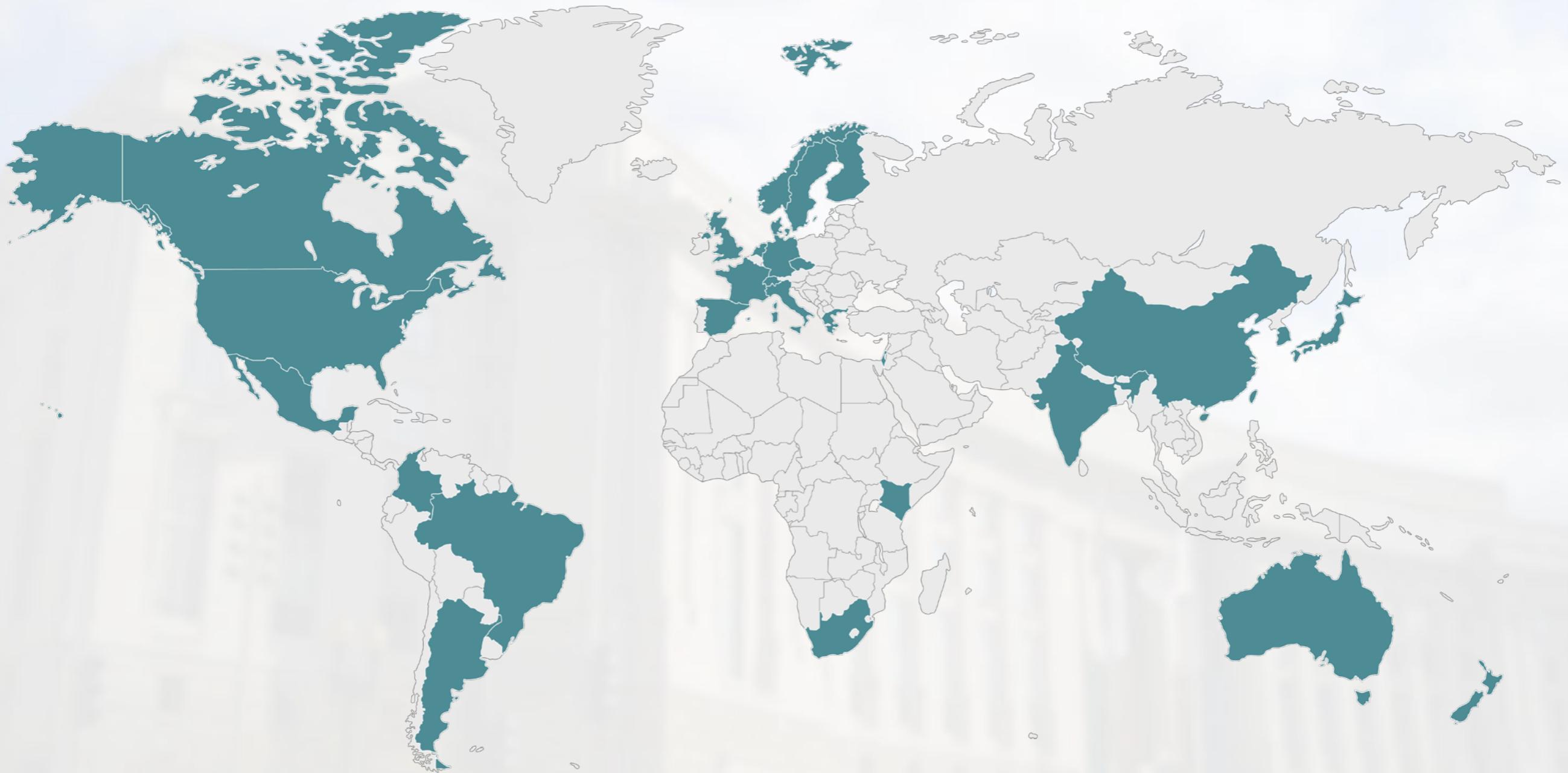
GOVERNANCE

RESEARCH & INNOVATION

SOCIETY



COUNTRIES WITH OPEN EARTH OBSERVATIONS DATA POLICIES OR OPEN DATA PORTALS INCLUDING EARTH OBSERVATIONS



Group on Earth Observations

An overview

What does GEO do?

GEO's 105 Member governments and 126 Participating Organizations work together to develop and implement Earth observation programmes and initiatives that solve global environmental problems.



Group on Earth Observations

An overview

What does GEO have to offer?

In addition to 73 Work Programme activities, the GEO community is creating a Global Earth Observation System of Systems (GEOSS), and has already made over 400 million data and information resources available via

www.geoportal.org



Group on Earth Observations

Our priorities

What are GEO's priorities?

GEO's global priorities include supporting the UN 2030 Agenda for Sustainable Development, the Paris Agreement on Climate Change, and the Sendai Framework for disaster Risk.



GEO & the SDGs

Priority Engagement Area

Earth observations play a major role in achieving the SDGs.



Earth observations are used for monitoring goals, targets, and indicators, tracking progress and helping Member States and custodial agencies make decisions and ongoing adjustments.

GEO is instrumental in integrating Earth observation data into the methodology of measuring and achieving the SDGs.

GEO & Disaster Risk Reduction

Priority Engagement Area

GEO supports disaster resilience by increasing coordination of Earth observations to forecast and prepare for disasters, to reduce damage and to better manage and recover from disasters.



UN World Conference on
Disaster Risk Reduction
2015 Sendai Japan



GEO & Climate Change

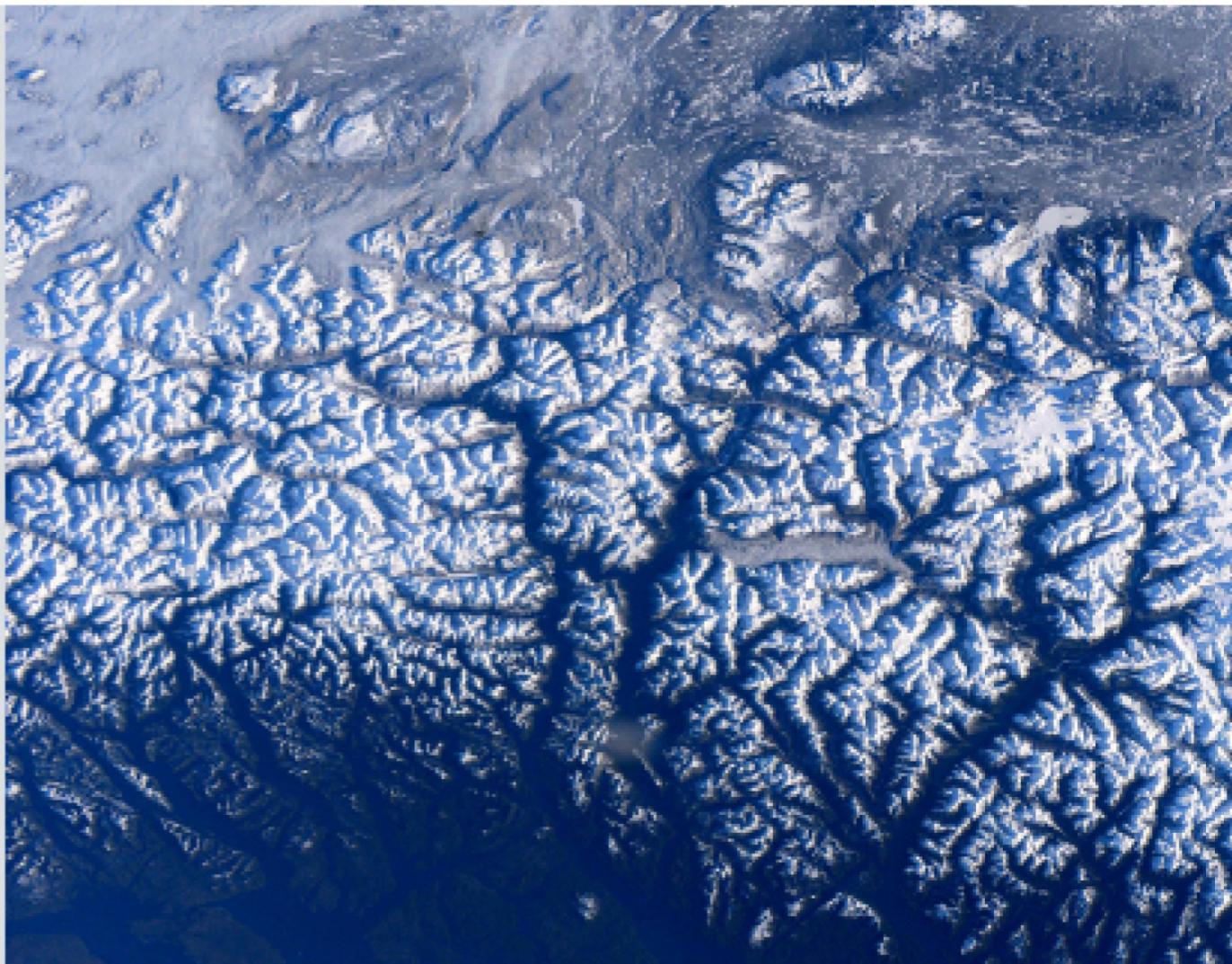
Priority Engagement Area

**Climate change and its impacts
cut across all areas of GEO's work.**

GEO makes available Earth observations in support of effective policy making for climate change adaptation and mitigation, working with partners to enhance global observation systems in order to strengthen resilience and adaptive capacity to climate-related hazards.

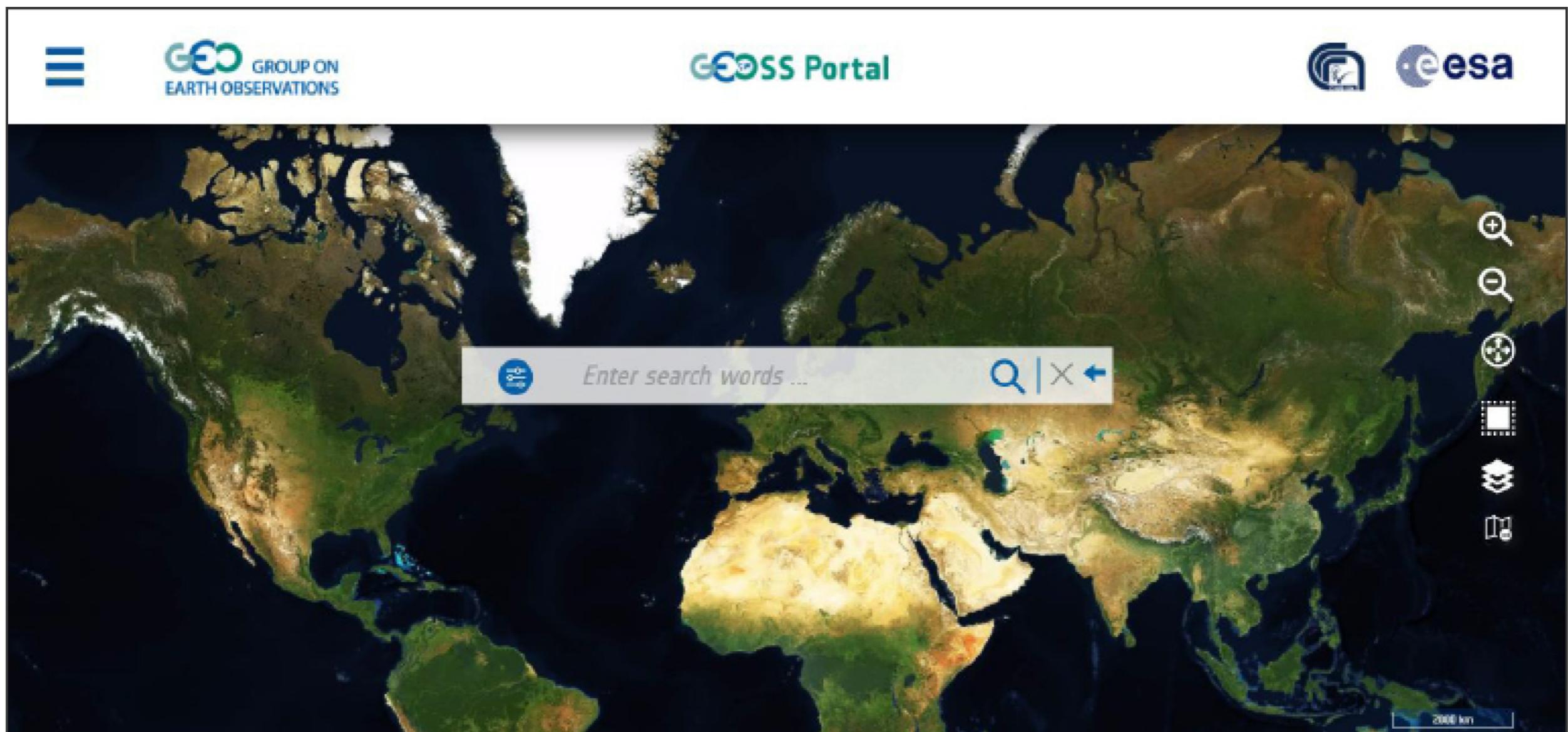


PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21·CMP11



GEOSS

Global Earth Observation System of Systems



www.geoportal.org

GEOSS

The GEOSS Platform presently brokers more than 165 open data catalogs and information systems, comprising over 400 million data and information resources .

35 languages

5000+ contributing organizations

200,000 keywords

400,000,000

open EO data resources





VISION FOR GEOSS

- From Metadata to Knowledge hub.
- Targeted, project-driven approach.
- Open source for developing world.

FAIR Principles

Make your data:

- **Findable**
- **Accessible**
- **Interoperable**
- **Reusable**

Accessible

- Determining what to share
- Participant consent and risk management
- Access status

Findable

- Descriptive metadata
- Persistent Identifiers

Interoperable

- XML standards
- Data Documentation Initiative
- CDISC

Reusable

- Rights and licence models
- Permitted and non-permitted use

<http://datafairport.org/>



Investing in GEO

Global Earth information for local solutions

FOCUS ON: DIGITAL EARTH AUSTRALIA

Australia's DataCube is an analytical engine that has organized over 30 years of open Landsat data across the entire Australian continent into a tool for delivering information products of use to decision makers.

Without broad open data, the first two DataCube information products would have cost Australia an estimated **500 million USD**.



Thank You

Communicate and Collaborate with GEO:

