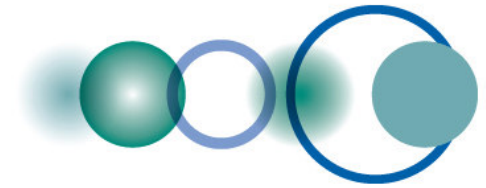


GLOBAL EARTH OBSERVATION SYSTEM OF SYSTEMS

CONCEPT TO REALITY

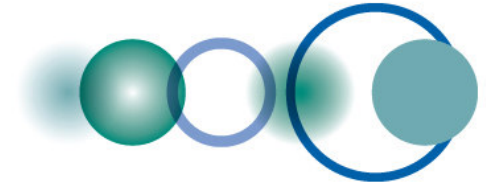
V MUNSAMI

**on behalf of
GEO CO-CHAIR: SOUTH AFRICA**



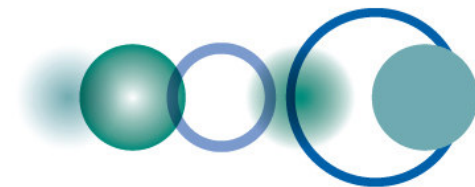
Contents

- About GEO/GEOSS
- Concept to implementation
- Data sharing principles
- Supplementing, improving and sustaining earth observation
- GEOSS, a global endeavor
- Focus on climate change
- Future directions

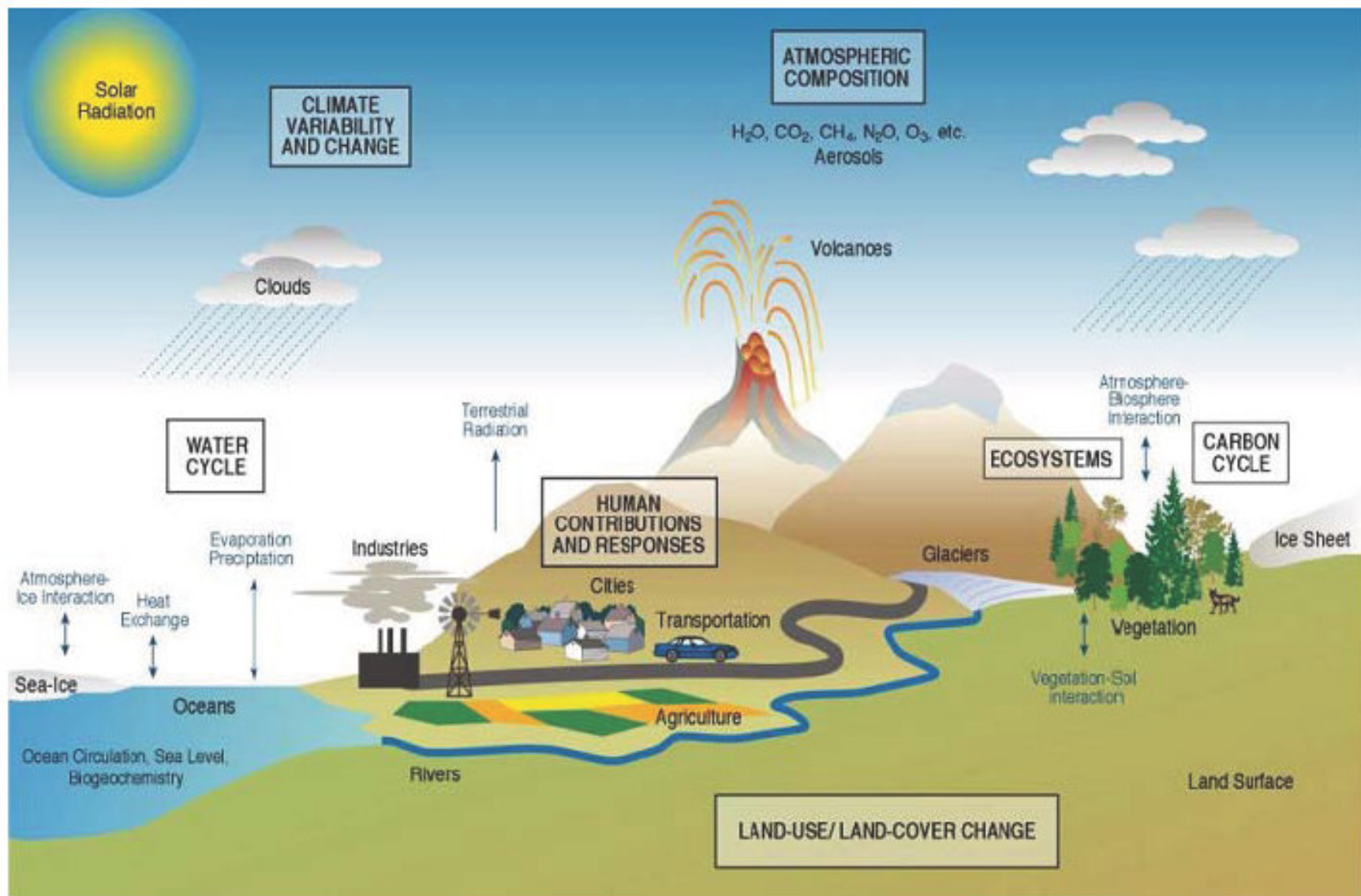


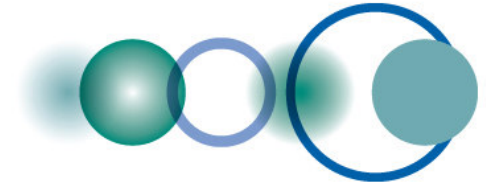
About GEO/GEOS

- **Voluntary partnerships of 72 governments and EC and 52 international organizations**
- **Supported by a Secretariat based in Geneva**
- **Efforts to build a Global Earth Observation System of Systems (GEOS)**
 - **Based on a 10 year implementation plan**
 - **Adopted a 3 year workplan 2007-2009 – 72 tasks**



About GEO/GEOS

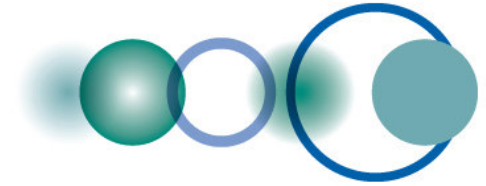




About GEO/GEOSS

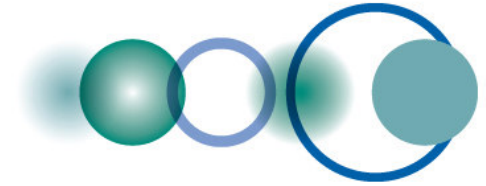
Nine Societal benefit areas:

1. Disasters
2. Health
3. Energy
4. Climate
5. Agriculture
6. Ecosystems
7. Biodiversity
8. Water
9. Weather



About GEO/GEOSS

- Four Transverse Areas
 1. User engagement
 2. Architecture
 3. Data management
 4. Capacity building



About GEO/GEOSS

- Four Committees
 - 1.Data and Architecture
 - 2.User Interface
 - 3.Science and Technology
 - 4.Capacity Building

GEO GROUP ON EARTH OBSERVATIONS

Home | About GEO | Meetings | Press Room | Documents | Contact

The Global Earth Observation System of Systems (GEOSS)

GEOSS themes:

- Disasters
- Health
- Energy
- Climate
- Water
- Weather
- Ecosystems
- Agriculture
- Biodiversity

GEOSS Common Infrastructure
GEO Portal
Components Registry

Home

Are you new to GEO and GEOSS? Find out more [here!](#)

Highlights

The GEOSS Common Infrastructure (GCI)

Evaluating the GEO Portal prototypes

Evaluate the GEO Portals

The assessment phase for the GEO Portals runs until May 2009. The Portals are updated regularly so please make repeat visits and provide your feedback.

Components registration

Register your components

The GEO community is invited to register its data bases, catalogues, services and tools in the GEOSS Components and Services Registry

Standards registration

Register your standards here

The GEO community is encouraged to register standards, protocols and other specifications for ensuring an interoperable "system of systems" in the GEOSS Registry

Brazil to host GEO Forest Monitoring Symposium

The Brazilian National Institute for Space Research (INPE) and the Group on Earth Observations (GEO) are organizing a major symposium on forest monitoring in Foz de Iguaçu, Brazil from 4 to 7 November. The goal of the Symposium is to advance international collaboration on monitoring the

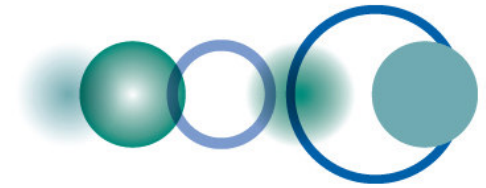
What's new?

GEO joins forces with Biodiversity Convention

The member governments of the Convention on Biological Diversity adopted a decision last May formally recognizing the role that GEOSS can play in achieving the Convention's goals. In an effort to enhance their collaboration on meeting governments' expectations, the heads of the GEO and CBD Secretariats signed a Memorandum of Understanding on 8 September. The MOU is posted [here](#).

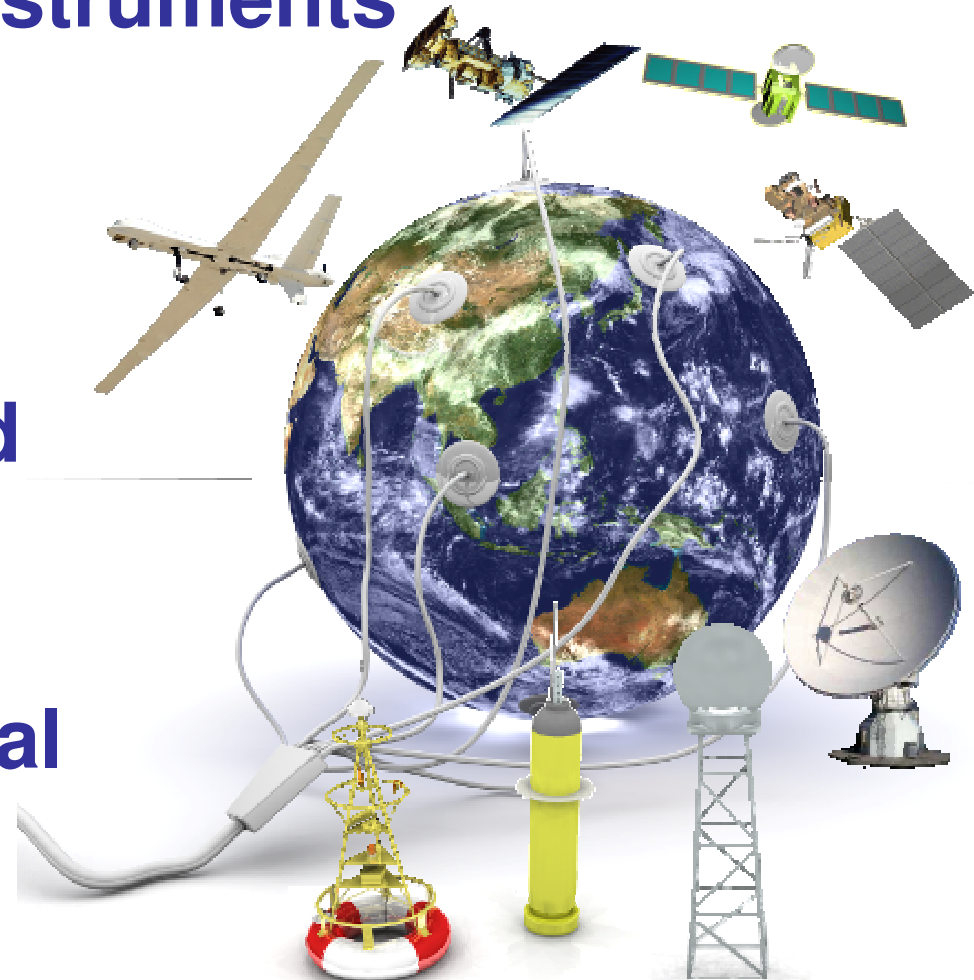
Estonia becomes the 75TH member of GEO

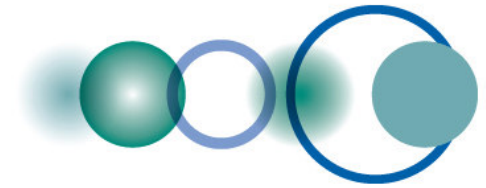
The Government of Estonia has joined the Group on Earth Observations, bringing the total GEO membership to 74 countries plus the EC. Estonia's Minister of the Environment informed the Secretariat of his government's



Data Sharing Principles

- **Full and Open Exchange of Data - Recognizing Relevant International Instruments and National Policies**
- **Data and Products at Minimum Time delay and Minimum Cost**
- **Free of Charge or minimal Cost for Research and Education**

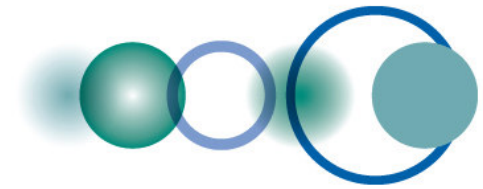




Observations need to be supplemented, improved and sustained

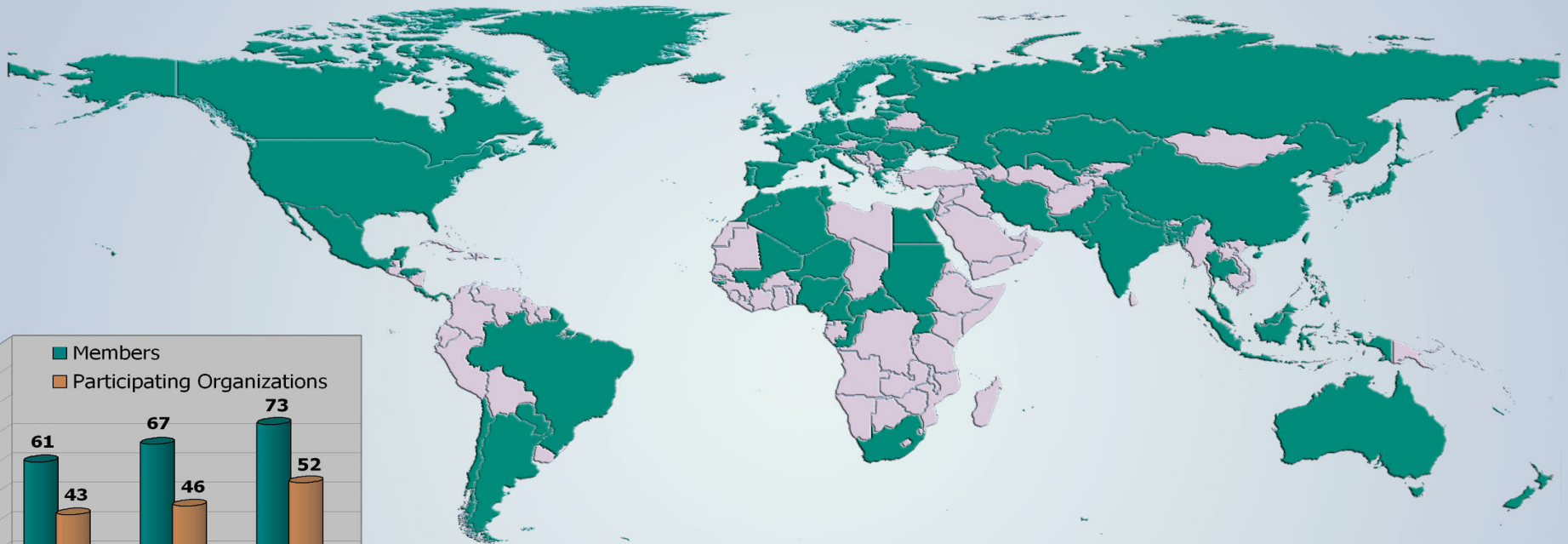
THE GLOBAL EARTH OBSERVATION
SYSTEM OF SYSTEMS

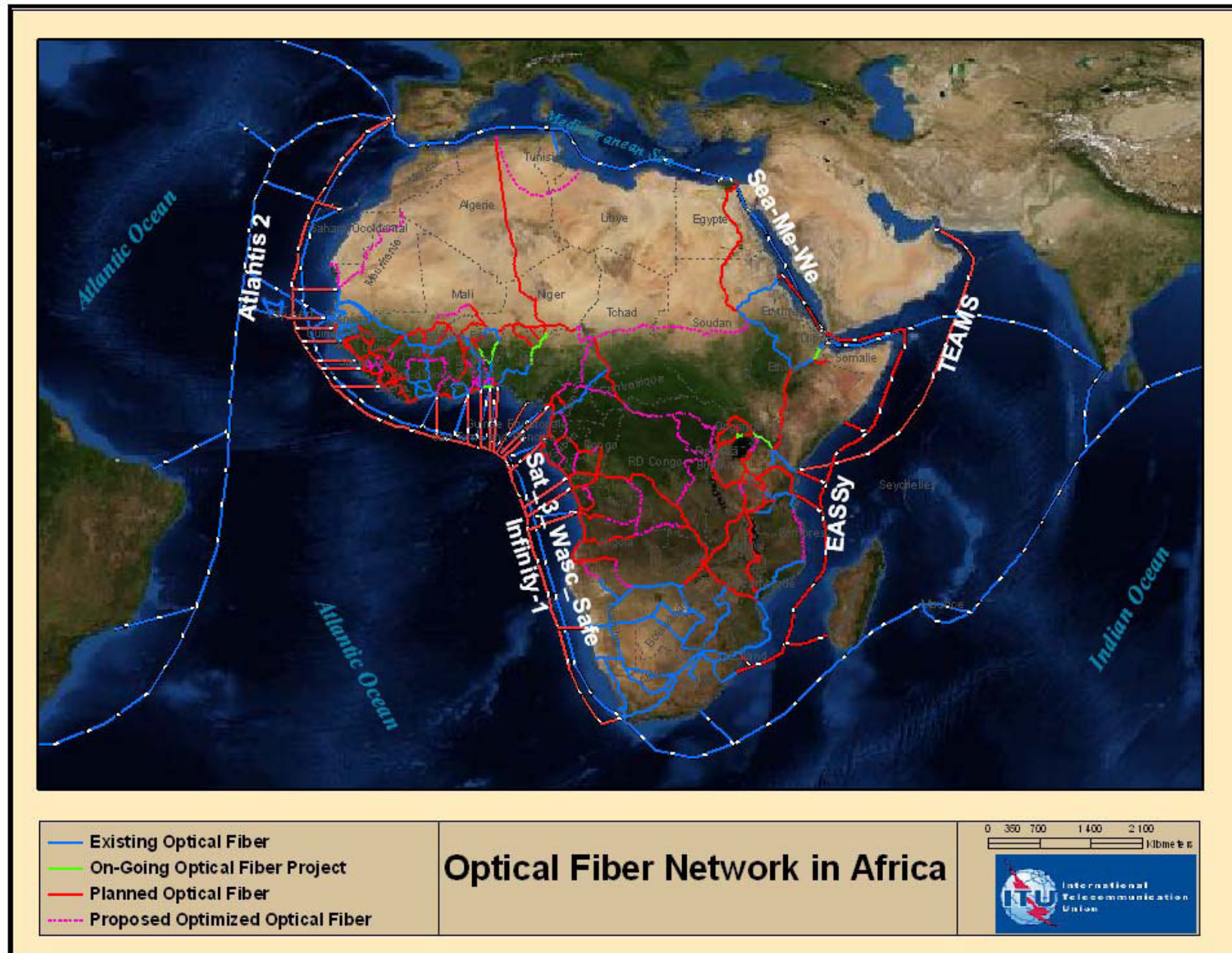
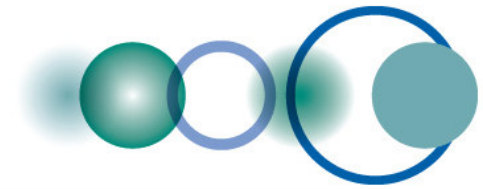


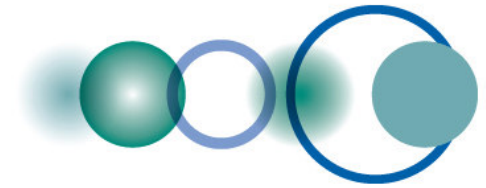


GEOSS a Global endeavour serving users

73 Members
52 Participating Organizations

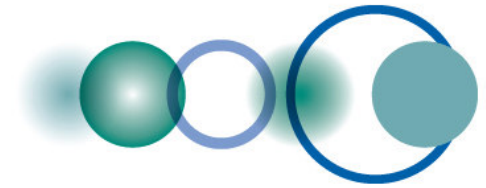






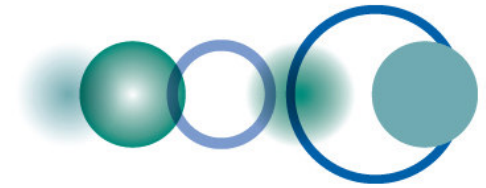
Focus on Climate change

- Develop a long term strategy to improve observation, data assimilation and modeling
- Advance the monitoring and predictability of weather and climate on a weekly, seasonal, inter-annual and decadal time scales
- Facilitate access to, and utilization of, weather and climate data and models for developing countries



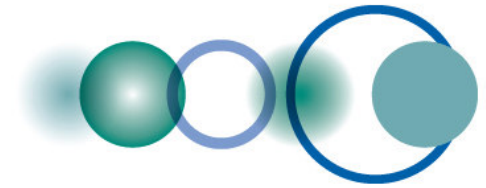
Focus on Climate Change

- Implement actions called for in GCOS Implementation Plan
- Emphasize to satellite agencies the importance of satellites for long term climate monitoring
- Promote the improvement of emissions databases for aerosols, greenhouse gases and their precursors
- Enhance collaboration between observation, research and user communities



GEOSS Future Directions

- Develop GEO Data Policy Principles
- Begin Global Earth Observing Systems Inventory
- Assess global observation gaps
- Implement operational tools, e.g., GEOPORTAL, GEONETCAST



GEOSS Future Directions

- Demonstrate national, regional, global Earth observation programs in support of health, agriculture, water, capacity building
- Promote use of Earth observations in modeling, data assimilation efforts
- Explore ways to sustain successful R & D observations
- Engage academic and industrial partners

Thank you!

