



Paving Ways for Contributing to the GEO Vision

building capacity and infrastructure for a more effective exploitation of earth
observation systems for environment and society



Why GEO

- Global challenges addressed by a network of public and private, research, academia and private organizations
- Cooperation framework steered by a governance structure agreed by member states and participating organizations and the the work program
- Applies open and free access principles to data and processing tools for developing a system of systems integrating local and regional systems based on common standards





Why GEO

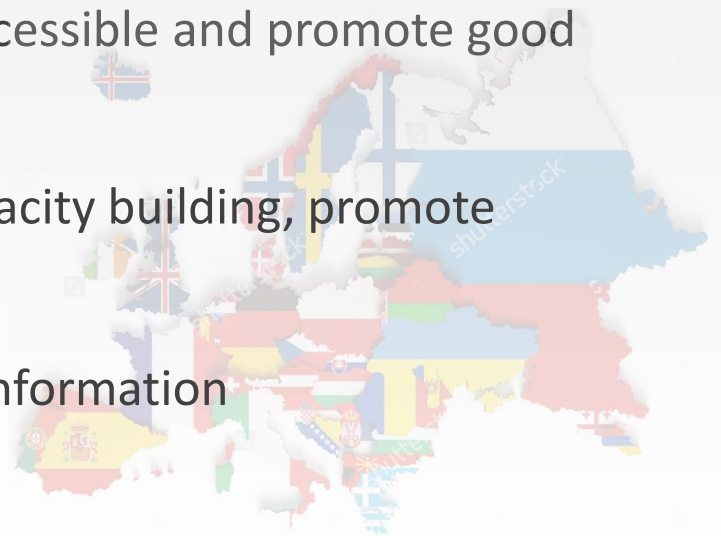
- A place to share knowledge and to learn about disaster resilience, food security, ecosystem sustainability, health, urban development, water management
- Bring your small contribution to solve big problems, difficult or impossible to solve when approached by single, isolated organizations;
- Volunteer actions, but supported by different means, national and international programs





What members can do

- Adopt principles and stay connected to the GEO actions; get involved and contribute to achieve the goals
- Make EO systems and data known, easily accessible and promote good practices for turning data into information
- Contribute to EO systems development, capacity building, promote success stories
- Promote free and open access to data and information





What we do

- Romania is a GEO member since 2007 (Cape Town Plenary) and hosted the 2008 plenary in Bucharest; constant participation to the EC HLWG and Plenary Sessions
- GEO themes are part of our national R&D programs and strategic development directions
- Efforts are made to stay involved in EU and regional activities promoting GEO and the benefits of developing GEOSS (like GEOCRADLE and BalkanGEONet); ROSA is a member of the ERA-PLANET group



What we do

- Maintain an good level of information about the current and future European EO programs among stakeholders and show the benefits of using EO data and derived information in decision making processes: Bucharest is the host of a regional conference promoting the EU Copernicus program
- Develop and keep an attractive programmatic framework stimulating R&D activities supporting EO and derived data sciences: national, EC and ESA programs together provide various mechanisms for funding relevant activities
- Try to develop common infrastructure and adopt common standards enabling the integration of national resources – data and information – in global systems like GEOSS



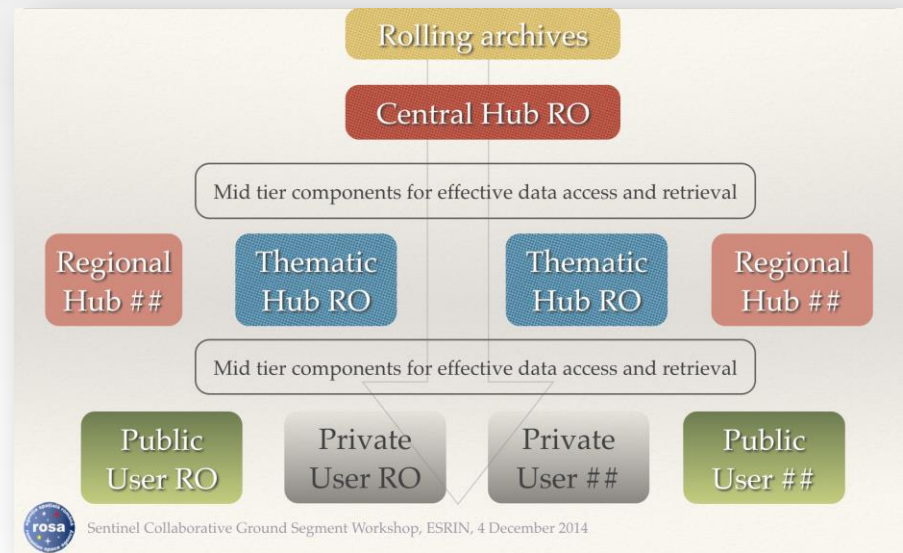
What we do

- By means of the national program for space technology STAR Romania is developing a number of competence centres and infrastructure nodes in support of future activities
- Activities are started for developing a first version of the national ground segment in the context of EU DIAS, the collaborative ground segment activities of ESA and the activities towards consolidating the national Infrastructure for Spatial Information



Towards a national ground segment

- General: making available high quality information derived from Sentinel data to the governmental and private organizations in Romania and neighboring countries.
- Region specific: provide sustainable Earth Observation and derived products for e.g. Black Sea and Danube monitoring
- Collaborative: build on top of existing resources and develop cross-border harmonized information products in support of regional policy for environment and security e.g. Danube monitoring





Towards a national ground segment

- thematic responsibilities - “observatories” combining space and in-situ data for providing thematic value-added information products
- spatial or thematic division of tasks - split of tasks between many stakeholders based on spatial or thematic criteria
- effective access to data - make the right data available to the right user, at the right moment
- coordination of all components - central data distribution, task management and system maintenance
- first version: develop Copernicus data distribution and common processing platform components and validate it based on pilot projects addressing crisis management and emergency response



ION NEDELCU

Romanian Space Agency

[ion.nedelcu\[at\]rosa.ro](mailto:ion.nedelcu@rosa.ro)

GEO Principal Alternate

National Delegate for GEO High Level Working Group (European Commission)

Member of the Program Board for Earth Observation and Data Operations Science and Technology Advisory Board (ESA)

Member of the National Council for Spatial Information

