

Introducing the Science and Technology Roadmap

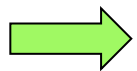
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S&T Roadmap identifies concrete activities to advance GEOSS's S&T content

Objectives of the *Science and Technology Committee* (GEO Terms of Reference):

- Solicit input from S&T community
- Ensure S&T integrity and soundness of GEO Work Plans
- Monitor and review output of GEO Work Plans
- Help identify experts to participate in GEO working groups
- Facilitate linkages and partnership with relevant research programmes and organizations willing to contribute to GEO



Ensure that GEO has access to scientific and technological advice



The S&T Roadmap supports the Strategic Targets

4. Ensure full interaction and engagement of relevant science and technology communities into GEOSS.

demonstrated by

- improved and new instrument and system design
- increased accessibility of global scientific data sets necessary for improved Earth System modeling

GEO will

- support research efforts to build necessary tools
- promote R&D in key areas
- facilitate to move systems from R&D to operational



A brief history of the S&T Roadmap

Dec 2008	S&T Roadmap proposed
May 2009	Version 1 of S&T Roadmap
April 2011	Version 1.1 of S&T Roadmap



The two lines of activity of the STC Roadmap:

- 1. Actively engaging and incorporating science and technology participants in the development of GEOSS**
- 2. Creating incentives and promoting GEO in the S&T communities**



Implementing the STC Roadmap

- STC takes responsibility for seeing the S&T Roadmap implemented
- Most of the action is in
 - the GEO Tasks, 
 - GEO Working Groups, and
 - the broader community of stakeholders 
- STC maintains close contact with these to
 - review progress
 - respond to high-level issues



Engaging S&T participants in GEOSS

- **Revolving scientific review of each Work Plan**, starting with the current work plan for 2009-2011 on grounds of scientific and technological soundness and completeness against the outstanding questions and challenges in each of the SBAs
- **Implement review indicators in the GEO Work Plan reporting** to ensure that activities in individual GEO Tasks and Sub-Tasks meet the applicable scientific and technological standards
- **Assess the requirement for continuity and long-term monitoring** by Earth observation systems of essential data from GEOSS components
- **Ensuring state-of-the-art technology in the GEOSS Common Infrastructure (GCI) and Observation Infrastructures.**
- **Responding to S&T needs and priorities** in Earth observation for GEOSS.



Incentives and Promotion

- **Getting GEO/GEOSS better acknowledged** in the scientific community.
- **Establishing a “GEO label”** to recognise the scientific relevance, quality, acceptance and societal needs for activities in support of GEOSS.
- **Building awareness of GEO and GEOSS** in the different S&T communities, within the scope of the GEOSS development.
- **Showing GEOSS at work** with a set of compelling examples showing how GEOSS serves the S&T communities in their work.
- **Enhancing registration of scientific data sets** as an important indicator for potential contributors from the science communities in assessing the relevance of GEOSS for their work.
- **Identify key commercial partners**, which could contribute to GEOSS and also benefit from improved observational means, products and services and might therefore support certain S&T development.
- **Catalyze research and developing funding** to help engaging the S&T communities in the implementation of the GEOSS.



Annex I

- Provides details to link to implementation
 - Specific actions
 - Indicative Schedule
 - Who needs to be involved



Who will be acting?

- The STC will initiate, pursue, foster, facilitate or promote these activities
- **It is looking to the Tasks for action!**

... mostly

