

## **Task ID-03: Science and Technology in GEOSS**

The Task is promoting awareness and benefits of GEOSS in the scientific and technological communities in order to engage the research community in GEO and GEOSS with the goal to achieve breakthroughs in the understanding of the Earth's changing environment and global integrated Earth system. Motivation stems from the fact that the scientific community needs to collaborate within GEO to address interactions between the components of the global integrated Earth system, and connect natural and socioeconomic sciences in order to utilize the societal benefits of Earth observations.

### **Relations of ID-03 to Strategic Targets**

Strategic Target 1: Continuity indicators developed by ID-03 help to identify the infrastructure that needs sustained operation. Goal is the identification, operation, continuity and interoperability of existing and new systems that provide essential environmental observations and information, including the GEOSS Common Infrastructure (GCI) that facilitates access to, and use of, these observations and information.

Strategic Target 2: Several ID-03 activities aim at the provision of a shared, easily accessible, timely, sustained stream of comprehensive data of documented quality, as well as metadata and information products, for informed decision making.

Strategic Target 4: ID-03 has a major focus on ensuring full interaction and engagement of relevant science and technology (S&T) communities such that GEOSS advances through integration of innovations in Earth observation science and technology, enabling the research community to fully benefit from GEOSS accomplishments.

Strategic Target 5: ID-03 focuses on understanding critical user information needs for decision making for S&T users and works to have these needs recognized and met through Earth observations.

### **Progress towards Strategic Targets**

Strategic Target 1: A continuity database is under development and a process for the identification and promotion of observation infrastructure that should be sustained has been drafted.

Strategic Target 2: Data citation guidelines have been developed and are in the process of implementation in a GCI testbed. A concept for a GEO Label providing easy access to information on data quality, usability and relevance has been drafted and implementation is being discussed with the GCI providers.

Strategic Target 4: Significant progress has been made towards promotion of use of Earth observations in research. All other demonstration goals of Target 4 are not addressed by the Task.

Strategic Target 5: The GEOSS Science and Technology Stakeholder Network has made significant progress in the identification of S&T user needs and provides a voice of S&T communities in the Post-2015 discussion.

### **Issues and Gaps**

The ID-03 task suffers from a lack of resource to address all “to be demonstrated” bullets of the Strategic Target 4. Although there are numerous task participants, actual contributions are limited. As a consequence, progress towards Strategic Target 4 is slow and all but one aspect (promotion of GEOSS in S&T communities) will not be reached by the task. The Strategic Target 4 is very demanding and would require considerable dedicated human, infrastructure and funding resources, which are not available.