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Land Cover Initiatives in GEOSS

Jan Kolar
Department of Geoinformatics,
Charles University in Prague

Global Earth Observation System of Systems

- ❖ Motive: thousands of individual land-, sea-, air- and space-based Earth observations working around the globe. work separately, information can be incomplete, data are just a fraction of what can be put to excellent use in all regions of the world.
- ❖ Ministerial EO Summits in 2003, 2004, 2005 for preparation GEOSS 10-Year Implementation Plan.
- ❖ GEO is a voluntary partnership of governments and international organizations to carry the plan out (2005-2014)
- ❖ GEOSS is driving the interoperability of these separate systems so they work in an integrated manner.
 - to link and leverage the capabilities of existing and planned Earth observation systems
 - promote common technical standards
 - support the development of new systems
 - GEOPortal offers data, imagery and analytical software

GEO membership and governance

- ❖ 87 Members: governments and European Commission
 - Czech Republic from 2007
 - EC from 2005 - European system GMES
- ❖ 64 Participating Organisations:
 - intergovernmental, international, regional organisations
- ❖ 7 Observers (by invitation)
- ❖ Plenary of all members and participating organisations once a year (8 meetings)
- ❖ Executive Committee of 13 members (Asia-4, Americas-3, Europe-3, Africa-2, CIS-1)
- ❖ Secretariat at WMO, Geneva
- ❖ Czech national secretariat for GMES/GEOSS

Structure to build GEOSS

- ❖ 5 cross-cutting Areas:

- Architecture
- Data Management
- Science and Technology
- User Interface
- Capacity Building

- ❖ 9 topic specific Social Benefit Areas:

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

- ❖ Strategic Targets defined for all Areas

GEOSS Tasks

Basic elements for GEOSS implementation, to build a user-driven GEOSS and to engage users

- ❖ Work Plans 2005-2008, 2009-2011, 2012-2015: overview of Tasks
- ❖ Tasks organising approach: target-driven instead of activity-driven, towards operational GEOSS after 2015
- ❖ Tasks structured in 3 parts:
 - Infrastructure - physical GEOSS components (12 tasks)
 - Institutions and Developments - making GEOSS useful (9 tasks)
 - **Information for Societal Benefits** - information, tools for decision-making 29

Land Cover in GEOSS

SB-02 Global Land Cover (1)

SB-03 Global Forest Observation (2)

SB-04 Global Urban Observation and Information (1)

SB-05 Impact Assessment of Human Activities (3)

EC-01 Global Ecosystem Monitoring (3)

BI-01 Global Biodiversity Observation (GEO BON) (1)