

From Data to Knowledge

Tuesday 10 November 2015, 14:00 – 16:00

Introduction

The event aims to introduce and discuss how GEOSS could **progress beyond data sharing** to the sharing of knowledge responding to GEOSS User's needs.

An objective is to understand how **information and knowledge generation and sharing** will affect the evolution of the GEOSS Common Infrastructure (**GCI**) and be facilitated by the related **Foundational Tasks**.

Elements and processes characterizing the linkage between data and knowledge in GEOSS will be introduced.

Two paths are considered:

- (a) **Generate knowledge** from existing datasets;
- (b) **Identify the datasets** that are necessary to underpin the knowledge required by GEOSS users.

Knowledge is not only derived from data in the **Earth Observation domain** but also originates from data in the **Social and Economic domains**. In fact, knowledge generation usually requires integration of data from different domains. Such an integration often includes the utilization of **modeling tools** and **service workflows**.

Addressed themes include: GEOSS **Essential Variables, Environmental Priority Indicators; Environmental and socio-economic indexes; Sustainable Development Goals and Targets; GEOSS Knowledge Base** concept and implementation; towards a **GEOSS Social Ecosystem**; sharing Workflows to generate knowledge from EO data and models (e.g. the **GEO Model Web**).

Agenda

Co-chairs: Stefano Nativi (CNR-IIA) and Hans-Peter Plag (ODU)

Time	Title	Presenter
The Conceptual Spectrum		
14:00 – 14:10	Introduction: From Data to Knowledge	Stefano Nativi
14:10 – 14:20	<ul style="list-style-type: none"> • Use Case #1: ESA ProdTrees 	Paolo Mazzetti
14:20 – 14:30	Introduction: From Knowledge to Data	Hans-Peter Plag
14:30 – 14:40	<ul style="list-style-type: none"> • Use Case #2: SDG 	
14:40 – 15:00	Discussion	All (moderator, Hans-Peter)
The GEOSS Work Plan: moving forwards		
	GEOSS Tasks and Conceptual Framework	
15:00 – 15:15	<ul style="list-style-type: none"> • The GEO Model Web 	Mattia Santoro
15:15 – 15:30	<ul style="list-style-type: none"> • The GEOSS Knowledge Base (Foundation Tasks: GD02 GCI Operations (including access to Knowledge) and GD 09: Knowledge Base development) 	Stefano Nativi and Hans-Peter Plag

15:30 – 15:50	Discussion	All (moderator, Stefano)
15:50 – 16:00	Wrap-up and Closure	