



geoland2

# Operational Monitoring Services for our Changing Environment

*An overview*

1-day training event

School of Forestry and Natural Environment

Thessaloniki, 29 May 2012

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# geoland2 Key Facts

- Project Start: September 2008
- Project Duration: 4 years
- Project Partner: 51 European public and private partners
- Project Stakeholder: > 80 major international User Organisations
- Financing: funded by EC within the 7th Framework Program.



# Schedule

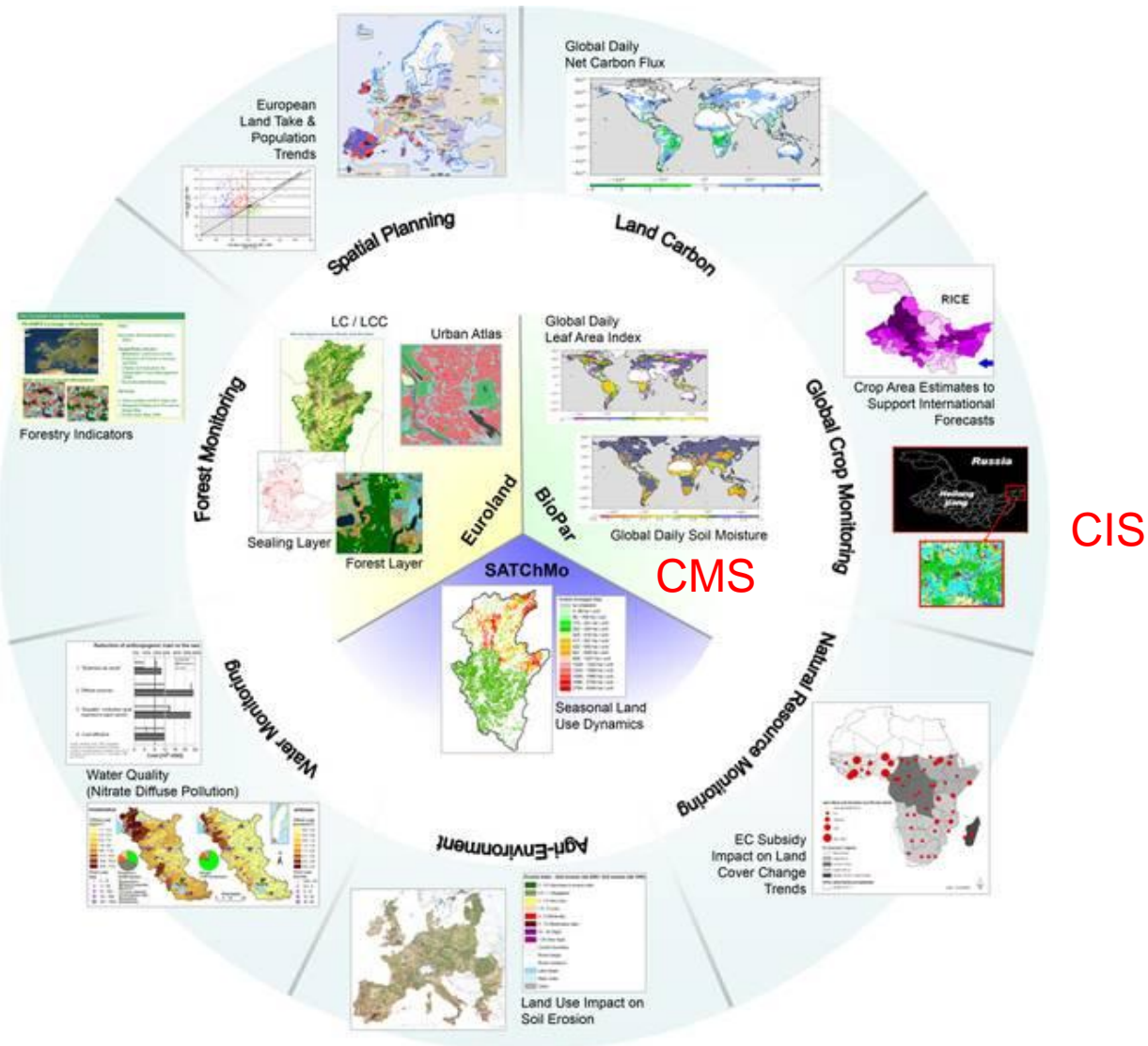


# GMES

- Within the GMES initiative the Land Services provide cross-border harmonised geo-information at global to local scales in a time- and cost-effective manner.
- GMES (Global Monitoring for Environment and Security) is the European Program for the establishment of a European capacity for Earth Observation.

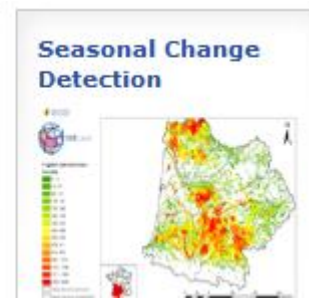
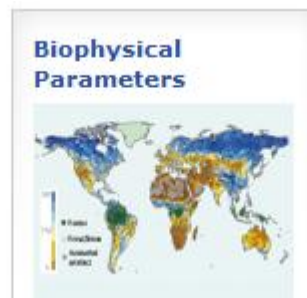


# geoland2 architecture



# CMS

- The Core Mapping Services
  - produce:
    - basic geo-information on land cover and land use
    - annual and seasonal changes
    - a variety of biophysical parameters describing the continental vegetation state, the radiation budget at the surface and the water cycle on the basis of satellite Earth observation data
  - cover spatial scales from local to global
  - update frequency from 1 day to several years





# CIS



- The Core Information Services:
  - are a set of thematic elements that build on Core Mapping Services products and other data sources to produce 'elaborated' information products
  - address specific European Environmental Policies and international treaties on:
    - Climate Change
    - food security
    - sustainable development of Africa
  - serve to estimate the added value of the Core Mapping Services in comparison to existing approaches and to carry out a utility assessment of selected end-to-end service demonstrations

# SDI (I)

- The Spatial Data Infrastructure (SDI) task supports the Core Mapping and Core Information Services in the dissemination of products and services to users.
- For this INSPIRE is considered as the baseline, to ensure an easy integration of the SDI into the context of the European Spatial Data Infrastructure.



# SDI (2)

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01 Sep, 2011

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**Title** Global 10-daily SPOT-VEGETATION Leaf Area Index (LAI) : H29V11 2011-08-24  
**Temporal extent begin position** Sat Aug 06 00:00:00 CEST 2011  
**Temporal extent end** Mon Sep 05 23:59:59 CEST 2011