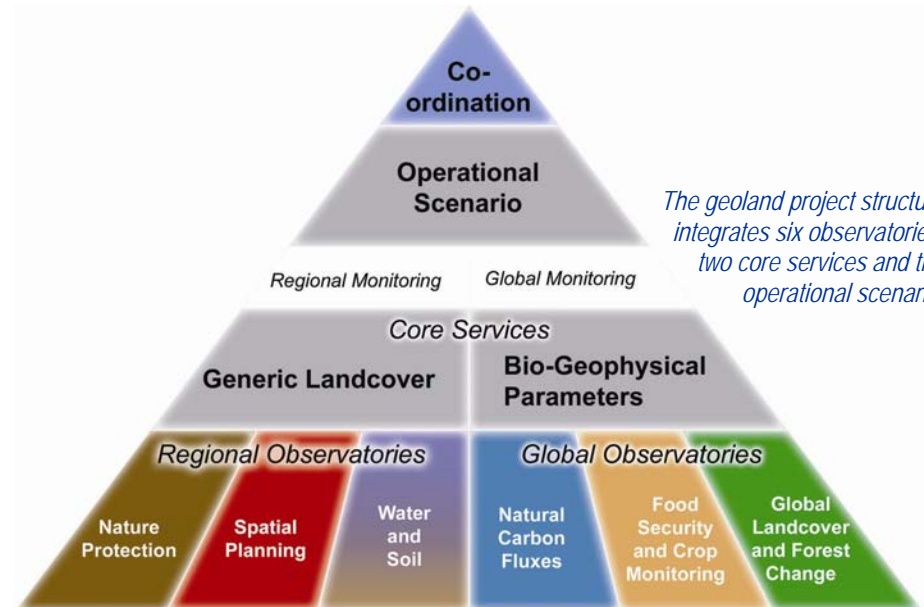




geoland – Integrated Project (FP-6) – GMES Project on Landcover and Vegetation

geoland is carried out in the context of GMES, a joint initiative of European Commission (EC) and European Space Agency (ESA), which aims to build up a European capacity for Global Monitoring of Environment and Security by the year 2008. geoland is designed to fundamentally support this initiative, focusing on the GMES priorities “Land Cover Change in Europe”, “Environmental Stress in Europe”, and “Global Vegetation Monitoring”.

The ambition of the geoland consortium is to develop and demonstrate a range of reliable, affordable and cost efficient European geo-information services, supporting the implementation of European directives and their national



The geoland project structure integrates six observatories, two core services and the operational scenario.

implementation, as well as European and International policies. Thus, the GMES initiative is considered a unique opportunity to integrate existing technology with

innovative and scientifically sound elements into sustainable services.

Within eight sub-projects (6 observatories and 2 core services), the 56 geoland partners develop products and services, utilizing available Earth Observation resources in combination with in-situ measurements, and integrating them with existing models into pre-operational geo-information services. These will support international, European, national and regional authorities and institutions in fulfilling their increasing monitoring and reporting obligations – and help them to better manage natural resources.

For detailed information on the sub-projects, please view their separate information sheets!

geoland particularly addresses environmentally relevant issues such as water quality, nature protection, the Kyoto-process or food security issues. The project is structured into three regional and three global observatories, each of them supported by a core service providing basic geo-information inputs. An Operational Scenario is being established to define the geo-information infrastructure and satellite technology requirements to achieve a fully operational service.

Regional Observatories focus on implementation of newly established European directives

Observatory Nature Protection	Habitats and Bird Directive, Ramsar Convention, Convention on Biological Diversity
Observatory Water and Soil	Thematic Strategy for Soil Protection, Water Framework Directive
Observatory Spatial Planning	European Spatial Development Perspective, European Spatial Observatory Network

Global Observatories address Global Change and Sustainable Development issues

Observatory Natural Carbon Fluxes	UN Framework Convention on Climate Change
Observatory Global Land Cover & Forest Change	UN Forum on Forest, Forest Development Communication of the EC
Observatory Food Security & Crop Monitoring	council regulations on Food Aid Policy, Environmental Measures in Developing Countries

Core Services support the observatories with cross-cutting issues

Core Service Generic Landcover	Support of the regional observatories with cross-cutting landcover and landcover change products
Core Service Bio-geophysical Parameters	Supports the global observatories with cross-cutting parameter products

Operational Scenario	Development of service infrastructure design for all sub-tasks
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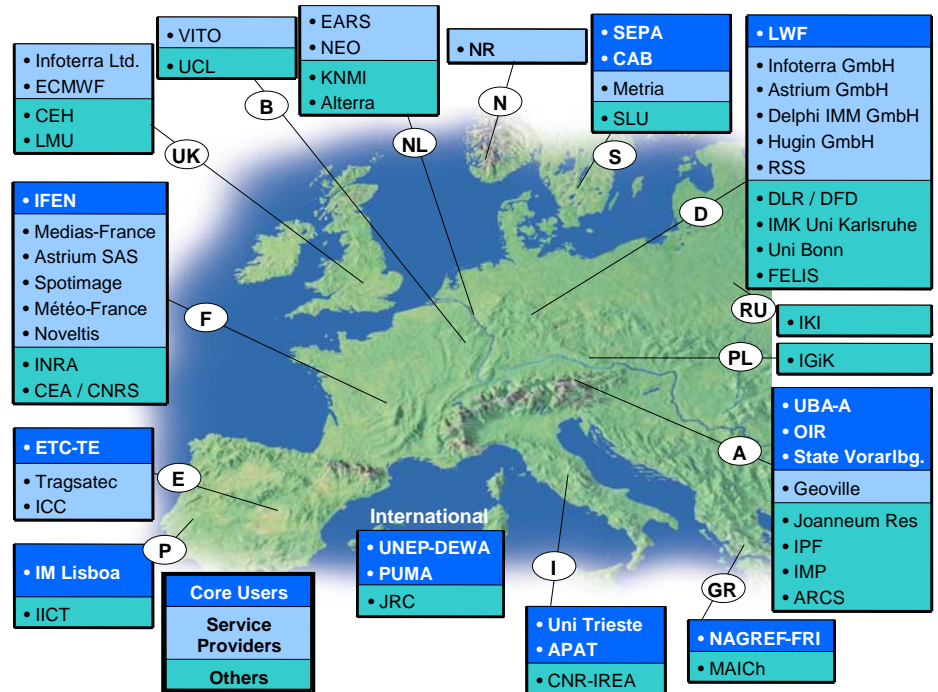
Overview: geoland regional and global observatories, core services, operational scenario



The proposal team has integrated key organisations and set-up links to industrial or research networks into the geoland consortium, in order to profit from results and experiences from previous projects and well integrate with parallel activities.

The geoland service development and demonstration logic is closely linked to user organisations driving and reviewing each step and finally accepting the results after integration into their own environment. The growing user community currently involves 50 user organisations ranging from international to local; 18 organisations even joined the consortium as full members, all others have firmly committed themselves through formal agreements.

50 percent of the overall project volume is funded by the European Commission (EC), while the other € 10 Mio are covered by the participating companies and institutions. This proves that the consortium members are convinced to be able to develop scientifically sound and equally valuable and sustainable services.



The geoland consortium across Europe

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