

LIFE+IMAGINE deals with the integrated management of coastal zone (ICZM) and with the enforcement of knowledge base on environmental and data policies.

LIFE+IMAGINE provides hands-on information and indicators to support coastal planning, decision making and reporting, with particular reference to two environmental scenarios:

- **Soil consumption in coastal zones**
- **Landslides in coastal zones**

LIFE+IMAGINE implements an infrastructure based on web services for environmental analysis. It integrates the specifications from the INSPIRE Directive (2007/2/EC), establishing an infrastructure for spatial information in Europe, the guidelines for a Shared Environmental Information System (SEIS) and the data from the European earth observation programme Copernicus.



SHORT - TERM RESULTS

Soil Consumption Scenario

Production, from multi-sources data, of indicators on the land consumption in coastal areas, to be used for planning, reporting and dissemination to the public

Monitoring of changes in land cover, land use and related soil sealing across the years

Landslides Scenario

Definition of a landslides risk assessment methodology to be exported and applied in other similar contexts

Improving the knowledge on hazard, susceptibility and landslide risk assessment

Production of indicators for the estimation of potential impacts and damages by landslides

MID - TERM RESULTS

They are tightly related to the availability, offered by the project, of new, usable and accessible environmental information to:

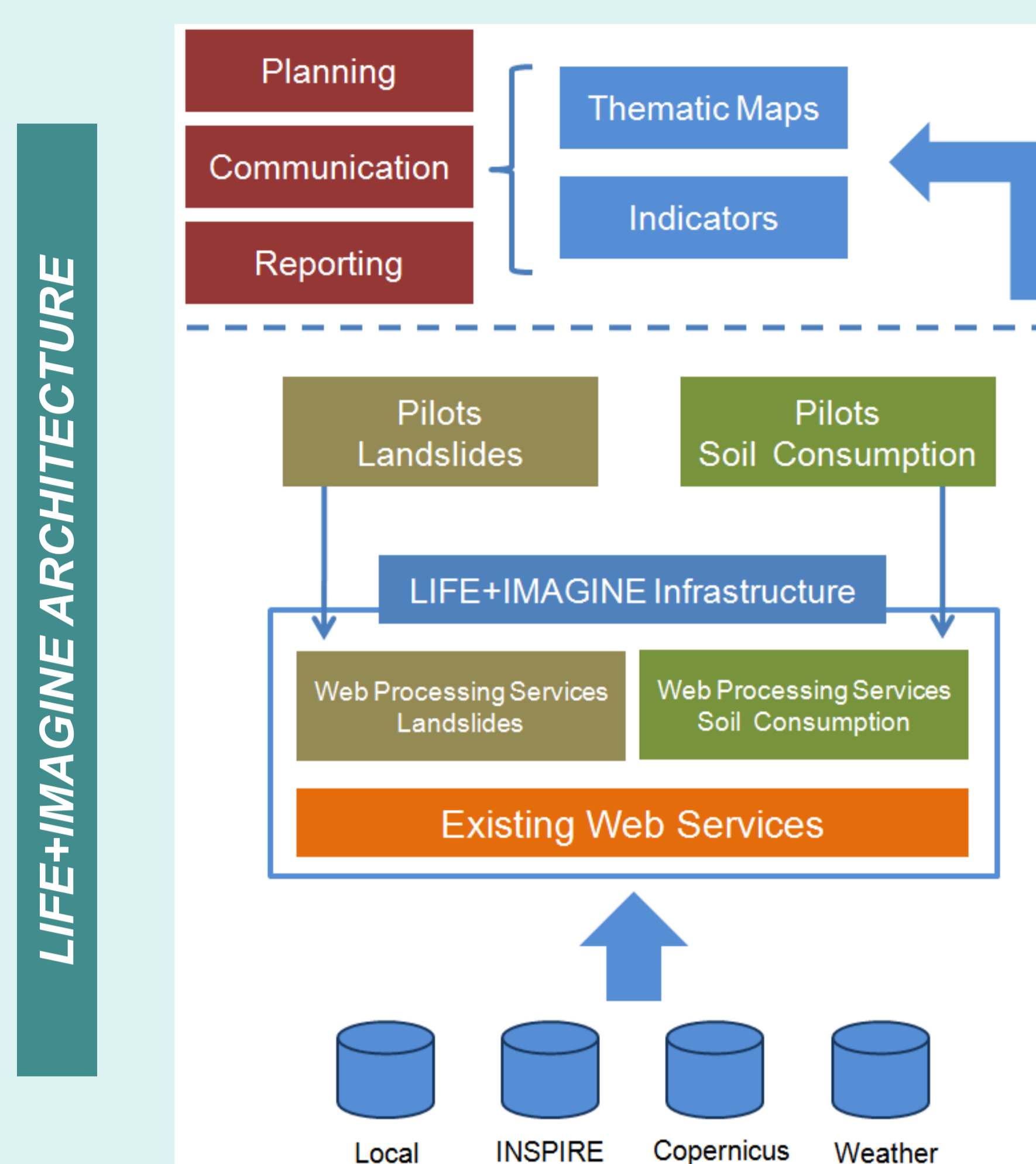
Better assess the impacts of landslides and land consumption, by calculating in which measure the investigated zone is affected by these problems

Mitigate the impacts through the prevision and the monitoring of these problems

Improve and, in a longer term, reshape the planning processes, by proposing interventions aimed at removing the impacts

TARGET USERS

- Regional Authorities
- Municipalities and Provinces
- Civil Protection
- Regional Environmental Agencies
- River Basin Authorities
- National Environmental Agencies
- Park Authorities
- NGOs and Associations
- Citizens



Pilot Applications



Liguria Pilot Sites

The Liguria pilot application for Soil Consumption scenario is located in the Tigullio Area (eastern part of Genoa Province), having more than 100,000 resident inhabitants and a coastline length of around 40km. This is a highly urbanized area with also a touristic vocation and coastal management problems.

The Liguria pilot application for Landslides scenario is located in the "Cinque Terre" and namely in the municipalities of Monterosso and Vernazza. In October 2011 the area was affected by extreme rainfalls which triggered debris flow and landslides, causing great damages to the buildings and infrastructures and the death of several people.



Toscana Pilot Sites

Toscana pilots, for both the scenarios on Landslides and Soil Consumption, are located in the NW part of the Region (in the areas known as Lunigiana, Versilia and Garfagnana), having altogether a coastline length of around 60km. In these zones the connection between landslides and meteorological events is a very strategic aspect to consider, because of territory characteristics. This part of the region has been also affected by significant changes in relation to land cover, moreover considering their impermeable coverage.

PARTNERS



Beneficiary Coordinator: GISIG
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Regione Toscana
REGIONE TOSCANA (Firenze, Italy)



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LIFE+ Project No. LIFE12/ENV/IT/001054

