

HUMBOLDT Application Scenario Protected Areas

– Factsheet –

Global perspective:

Support integrated management of nature resources by national and regional bodies, simplifying the communication to general public, also for tourism exploitation

Benefit:

Transform geo information managed by park authorities into a seamless flow to combine multiple information sources from different governance levels (European, national, regional) and exploit it for the purposes of planning, management and tourism promotion

Relation to GMES/INSPIRE:

The Protected Areas scenario participated in the INSPIRE testing and exploits the Annex I Protected Sites data theme for INSPIRE-compliant data provision

Particularities:

- Use of data of three countries and from different levels of administration*
- Schema mapping and transformation of the structure and geometry of datasets*

Use cases:

- Tourism valorization in a Protected Area*
- Management of Protected Areas*

Stakeholders involved:

- Regional / National Mapping agencies*
- Territorial governments*

Target audience:

- Decision makers*
- Leisure and tourism operators*
- Citizens*
- Researchers*
- Commercial operators*

Data involved:

Protected areas, Natura 2000 sites, Special Protection Areas, Habitats, Flora, Planning and zoning, Administrative limits and boundaries, Land cover, Transportation network, Hydrographic network, Background base cartography.

 **Spatial coverage:**

Data sets are available from Italy, Spain and Portugal.

 **Major harmonisation issues:**

- Data Formats, Coordinates transformation, Conceptual schemas, Metadata profile, Classification and terminology, Data Cleaning and Spatial Consistency*
- INSPIRE requirements to cover: Common CRS, Management of connections at international boundaries, INSPIRE-compliant data provision*

 **System architecture:**

Existing software components:

Open source desktop GIS software (Pre- and Post-processing of datasets)

Open source webGIS and frontends

HUMBOLDT components:

HUMBOLDT Alignment Editor (HALE): for the definition of the mapping between the source and target schema

Workflow Design and Construction Service: For defining the harmonisation workflow

Mediator Service: to invoke the single harmonisation services expressed in the workflow and execute the transformations.

Conceptual Schema Transformer: to execute the mapping specified in HALE

Edge Matching Service: to execute the geometric harmonisation

Coordinate Transformation Service: to execute the CRS transformations

 **Scenario Demonstrator will be available:**

End of June 2010

**For more information please visit our Project Website www.esdi-humboldt.eu
and our Community Website <http://community.esdi-humboldt.eu>.**

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