

## **HUMBOLDT Application Scenario Urban Planning**

### **– Factsheet –**

#### **Global perspective:**

*Support of data harmonization in the field of land cover, spatial and urban planning.*

#### **Benefit:**

*The interconnection of spatial data of urban and spatial planning improves*

- possibilities of collecting, updating, sharing and presentation of spatial data of urban and spatial planning,*
- using web services (WMS, WFS, WCS and WPS) in urban and spatial planning through data description.*

#### **Relation to GMES/INSPIRE:**

*HUMBOLDT demonstrator for data harmonisation of standardized and non-standardized spatial data sets, implementation of INSPIRE compliant standards*

#### **Particularities:**

- Support decisions of regional and local authorities*
- Enhance future direction and development of GMES*
- Deliver up-to-date data to other information systems to support timely warnings*

#### **Use case:**

*Transformation between forestry data of Regional Plans of Forest Development (RPF) and Corine Land Cover (CLC) and Spatial (Territorially) Analytic Backgrounds (SAB)*

#### **Stakeholders involved:**

- regional and local authorities responsible for spatial planning*
- spatial planning data producers*

#### **Target audience:**

- spatial and urban planners*
- spatial planning data users*
- public*

#### **Data involved:**

- Selected datasets from RPF, stored in Data Warehouse of the Information Data Centre of FMI, visualisation: Raster maps, WFS*
- Selected datasets from CLC 2006*
- Selected datasets from Spatial (Territorially) Analytic Backgrounds (SAB)*

## Spatial coverage:

SAB and RPFD data covers the whole Czech Republic. CLC data set covers the Europe.

## Major harmonisation issues:

- Transformation of source data to GML format
- Conversion and inverse vonversion to/from CLC – data models transformation
- Transformation of source GML data to required format(s) – SHP, raster, web service etc.

## System architecture:

### Existing software components:

HSRS Geoportal (<http://geoportal.bnhelp.cz/index.php?SID=&lang=eng>) is a web application that allows users to search, view, examine and share spatial and non-spatial data. Geoportal is based on interoperability standards (OGC, W3C, OASIS, ISO) which are connected to other web-based resources and helps to create a distributed structure of information and knowledge based on spatial localization.

GeoServer – detailed information in <http://geoserver.org>

OGR2OGR – detailed information in <http://www.gdal.org/ogr2ogr.html>

### HUMBOLDT components:

Mediator Service: for interaction of the Scenario client and the Framework services

Context Service: for management of user profiles and their harmonisation requirements

HUMBOLDT Alignment Editor: to define mapping between source and target schemas

Conceptual Schema Transformer (CST): to perform the schema transformation

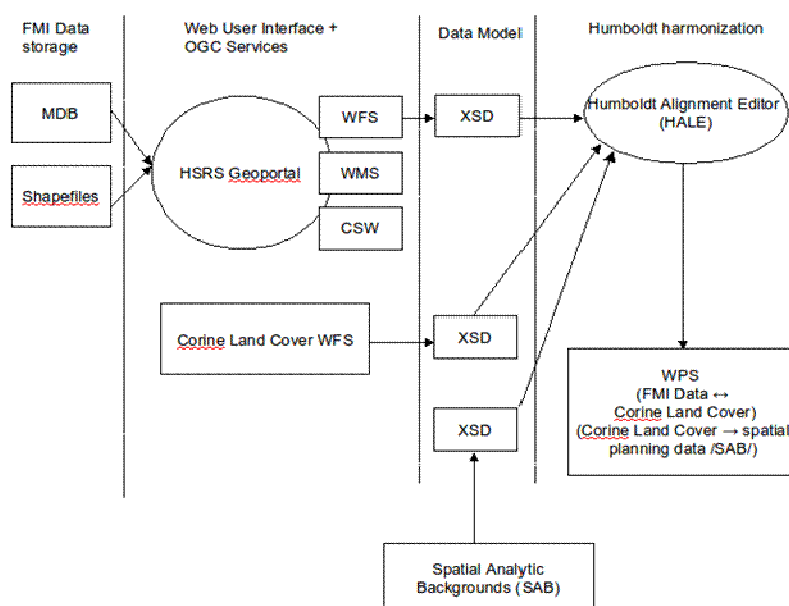
Language Transformer

Coordinate Transformation Service

Edge Matching Service

Scenario Demonstrator will be available: March – April 2010

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



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