



CIP-ICT-PSP.2009.6.2  
Social Validation of INSPIRE Annex III Data Structures in EU Habitats

**Address: C\Conde de Peñalver Nº 38, 1st Floor, Room 3  
Madrid**

## Scope

Demonstrate and give understanding to users how to transform local data to any global standard, including INSPIRE data models developed in Habitats project (Biogeographical regions, Species distribution, Habitats and biotopes, Sea regions).

## Participants

- Technical people from Habitats Consortium, especially people from Habitats pilots and developers
- Internal people from TRAGSA and TRAGSATEC

## Aim and expected results

Guarantee the common adoption in a INSPIRE architecture among all the pilots and promote the interoperability among them.

Madrid, November 22<sup>nd</sup>, 2011



- **Tuesday 22<sup>nd</sup> November, 2011: Geoportal**

**Teacher: Premek Vohnout, Jan Bojko**

**Requirements for participants in advanced GIS session**

Basic CMS knowledge, GIS, metadata skills, GIS data skills, knowing WMS, WFS, WCS, WMS

**Technical requirements**

Download and install software listed below:

1. Notebook
2. Internet
3. Gis data

**Agenda**

|               |   |
|---------------|---|
| 13:00h-14:00h | Revision of computers and software                    |
| 14:00h-15:00h | Lunch time  |
| 15:00h-15:30h | Liferay CMS - how to work, how to customise           |
| 15:30h-16:00h | Liferay and Social Networks                           |
| 16:00h-17:00h | Introduction to OGC WMS, WFS, WCS, CSW, WMC, WPS, SOS |
| 17:00h-18:00h | Portal modules introduction & Metadata                |

Madrid, November 22<sup>nd</sup>, 2011



- **Wednesday 23<sup>rd</sup> November, 2011: Advanced GIS**

**Teacher: Jachym Cepicky**

**Requirements for participants in advanced GIS session**

- Understanding in GIS and spatial data, knowledge in databases and data models in good level.
- Skills in programming and use - JavaScript, basic in Python, OpenLayers

**Technical requirements**

Download and install software listed below:

4. Python
5. Apache2
6. mod-python, mod-wsgi
7. HSLayers (extended OpenLayers and ExtJS)
8. PyWPS
9. ready to use your favorite editor (Notepad, Kate, gedit, vim, nano)

**Agenda:**

|               |   |
|---------------|---|
| 9:00h-10:00h  | Geoportal Session: Creating GIS data outputs using Gehosting  |
| 10:00h-12:00h | Geoportal Session: Advanced Work with HSLayers including support for Social networking (WMC, Embedded windows, OWS, data editing. data processing)  |
| 12:00h-12:30h | Breakfast time  |
| 12:30h-14:00h | HSLayers workplan: <a href="http://bnhelp.cz/hslayers/">http://bnhelp.cz/hslayers/</a><br><ol style="list-style-type: none"> <li>1. Introduction to HSLayers, comparism to Google maps API, relation to OpenLayers.</li> <li>2. Relation of HSLayers to INSPIRE</li> </ol>            |
| 14:00h-15:00h | Lunch time  |
| 15:00h-18:00h | <ol style="list-style-type: none"> <li>3. HSLayers Client components (from MapPanel to MapPortal, special Layer types, ...)</li> <li>4. HSLayers Server components (Status, Printing, Reprojection, OWSLib)</li> <li>5. Special topics (printing configuration, searching)</li> </ol> |

Madrid, November 22<sup>nd</sup>, 2011



• **Thursday 24th November, 2011 : Data Harmonization**

**Teacher: Ota Cerba, Peteris Bruns**

**Requirements for participants in harmonization session**

- Basic understanding about GIS and spatial data, knowledge in databases and data models is an advantage.
- Knowledge in biology and in environmental sciences will be as advantage.
- The ability of understanding and describing own data is the necessary condition for learners.

**Technical requirements**

Download and install software listed below:

1. GeoKettle- <http://www.spatialytics.org/projects/geokettle/>
2. Open Studio and Spatial Data Integrator- <http://www.talendforge.org/wiki/doku.php?id=sdi:MainPage>
3. gdal/ogr for your computer - <http://trac.osgeo.org/gdal/wiki/DownloadingGdalBinaries>
4. PostgreSQL/PostGIS or SpatiaLite - (<http://postgis.refractory.net/> , <http://www.gaia-gis.it/spatialite/> )
5. at least any client/editor - OpenJump, KosmoGIS, QuantumGIS, ArcGIS or any other

**Agenda:**

|               |  |
|---------------|--|
| 9:00h-11:00h  | <ol style="list-style-type: none"> <li>1. Introduction of participants</li> <li>2. Basic introduction in spatial data and data models</li> <li>3. Structure of INSPIRE data specification (in general)</li> </ol>  |
| 11:00h-11:30h | Breakfast time   |
| 11:30h-14:00h | <ol style="list-style-type: none"> <li>4. Overview of 4 HABITATS Inspire themes</li> <li>5. Data harmonization and its aspects</li> <li>6. Harmonization tools (databases, ETL, GIS)</li> <li>7. Short explanation about INSPIRE data publishing requirements (services and they types) and available tools and software</li> </ol>  |
| 14:00h-15:00h | Lunch time   |
| 15:00h-17:30h | <p>Practical work (individual work supported by trainers)</p> <ol style="list-style-type: none"> <li>1. Overview of source data (source data will be introduces by learners)</li> <li>2. Requirements on data harmonization (learners will specify useful harmonization sub-processes and their parameters)</li> <li>3. Harmonization processes - design and recommendations</li> <li>4. Realization of proposed harmonization processes through selected GIS, database or ETL software</li> <li>5. Data publishing</li> </ol> <p>Free discussions about practical work and 4 HABITATS themes - recognized gaps from real world use cases, recommendations for data model improvement.</p> |

Madrid, November 22<sup>nd</sup>, 2011

