

WP7
Pilot EP10
State of progress
Evolution

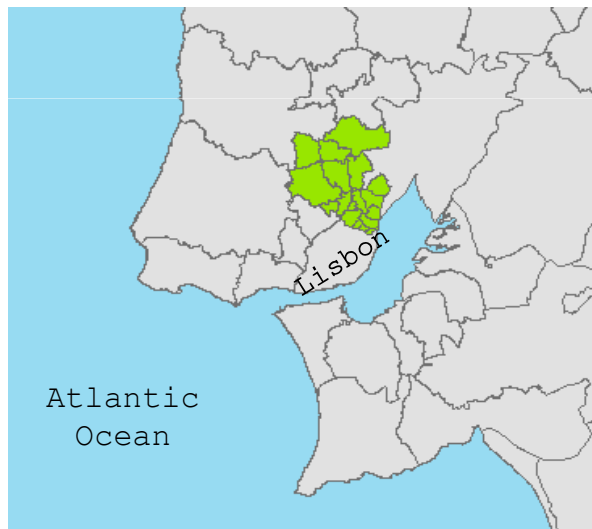
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Pilot demonstration

■ eENVplus Project:

- The objective is to create an open and interoperable infrastructure capable to integrate existing infrastructures according to the requirements of Inspire and international standards.



■ Objective of the Portuguese pilot:

- To create an application to monitor land cover changes between different dates for an area defined by the user and to develop a prototype integrating web services for data used to build indicators and monitor urban dynamics.
- To evaluate the fitness of available datasets to monitor the pattern of urban growth and the adequacy of these datasets to evaluate urban growth sustainability combined with socio-economic evolution and environmental pressures.



[Live Demo | Portuguese pilot](#)

■ Loaded and Validated

INSPIRE Data Theme	Content	Metadata
I. 4. AU: Administrative units	CAOP	ISO 19115
III. 4. LU: Land use	CRUS	ISO 19115
II. 2. LC: Land cover	COS 90, COS 2007, COS 2010	ISO 19115

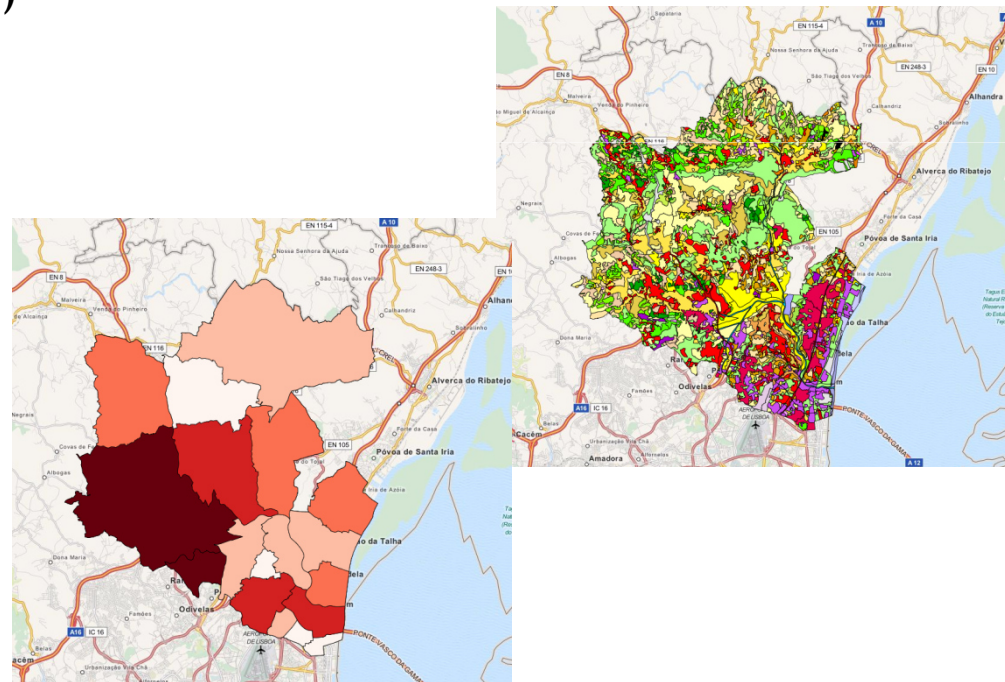
The spatial data correspond to several **INSPIRE data themes** and are organized by administrative units for the study areas. It covers land use, land cover and administrative units, all harmonized according to the INSPIRE implementing rules

■ Metadata on eENVplus catalogue



■ Harmonized data published on eENVplus client

- land cover datasets: COS 1990, COS 2007, COS 2010 (each dataset has a different nomenclature)
- land use dataset (CRUS)
- administrative units (CAOP)



■ Data model

- Full and formal description of data models
 - Lists of features and attributes
 - Code lists
 - Feature relations (UML diagrams)

■ The following application schemas were used:

- ☐ LandCoverNomenclature
- ☐ LandCoverVector
- ☐ PlannedLandUse
- ☐ LandUseNomenclature
- ☐ AdministrativeUnits

Experience/exploitation

- Use of the developed geoportal and tools in other projects enriching and maintaining them with actual geospatial data and main results.
- Promotion of the pilot in meetings and social web based networks focusing the aim of dissemination in the field of GIS; SDI; Data management, land use planning and natural resources management.
- Training initiatives at universities, internally and at municipalities
 - data harmonization will be the central point and will be very useful in the Portuguese context.

Actions to be performed for closing/still open issues

■ List of actions

- ☐ Upgrade schema (landCoverVector) from v3.0 to v4.0
- ☐ Use HALE 2.9.2 in order to replace gml:CompositeSurface which is not compliant to Article 12 of the IR with geometries from the simpleFeatures profile.
- ☐ Replace the LC class of the LC unit (<lcv:class> elements of the gml file) presently with only a coded value (e.g. '3.1.1') by the full reference
 - ☐ xlink:href=<http://inspire.ec.europa.eu/codelist/LandCoverClassValue/3.1.1>
- ☐ Voidable attributes.
- ☐ Work towards full Inspire compatibility of metadata.
- ☐ Improvements to the pilot interface.

Thank you

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