



eEnvironmental services for advanced applications within INSPIRE

A Pilot application for monitoring land cover evolution and to characterize the territory

Portuguese Pilot: Land Cover change detection and planning indicators

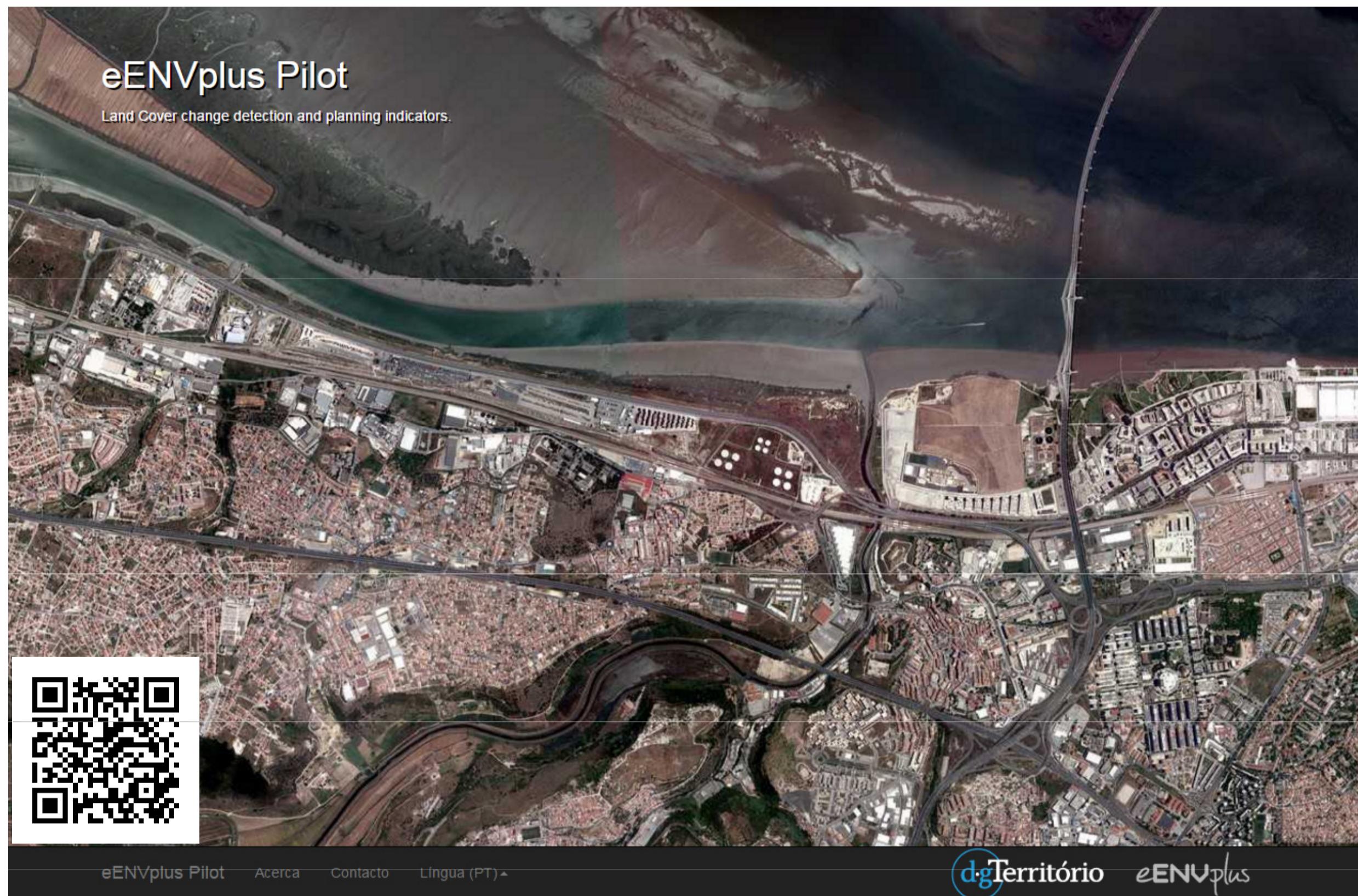
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The eEnvPlus Project - Portuguese pilot

- Create an application to monitor land cover changes over time.
- Harmonization of LU,LC and AU datasets (INSPIRE compliant).
- Develop a prototype integrating web services to build indicators and monitor urban dynamics integrating LC changes over time.
- Evaluate fitness for purpose of available datasets to deal with urban evolution.
- Better understand and address planning related problems – urban growth.

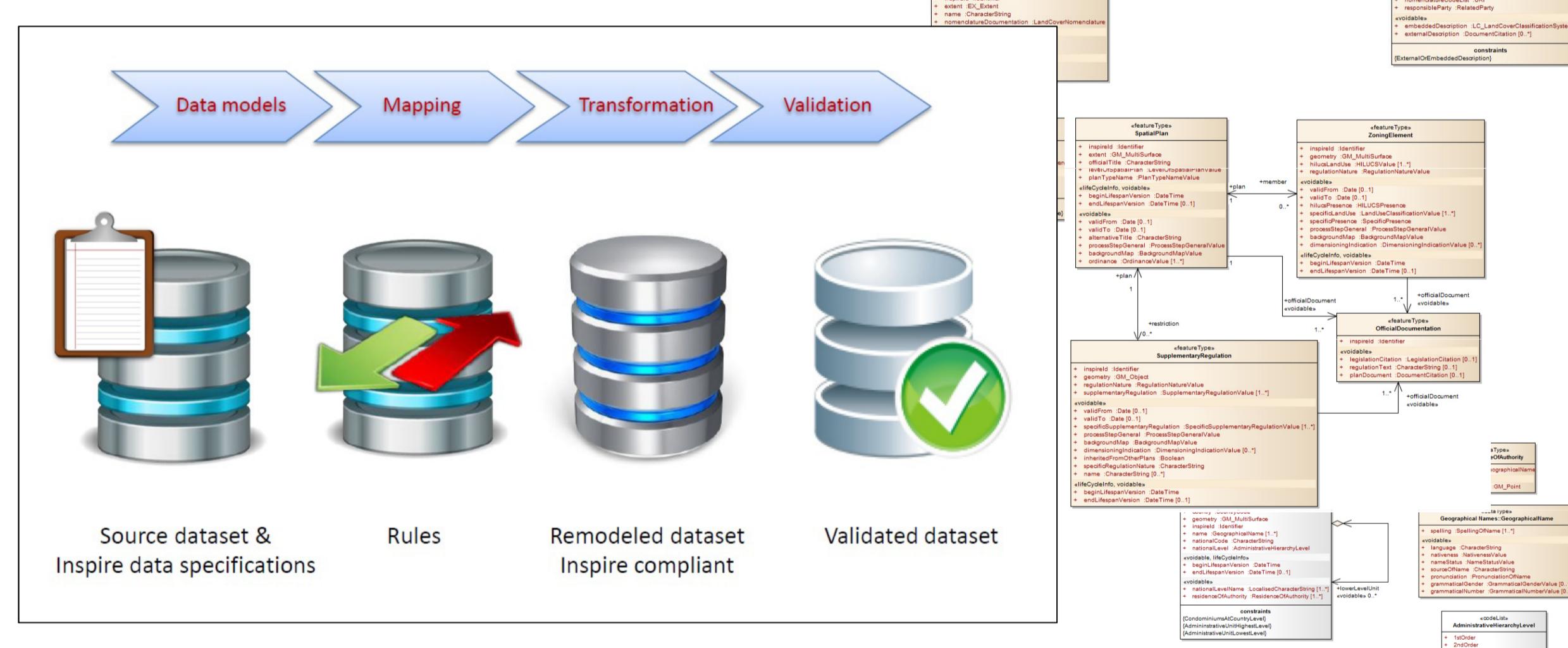
<http://mapas.dgterritorio.pt:85/eenvplus>



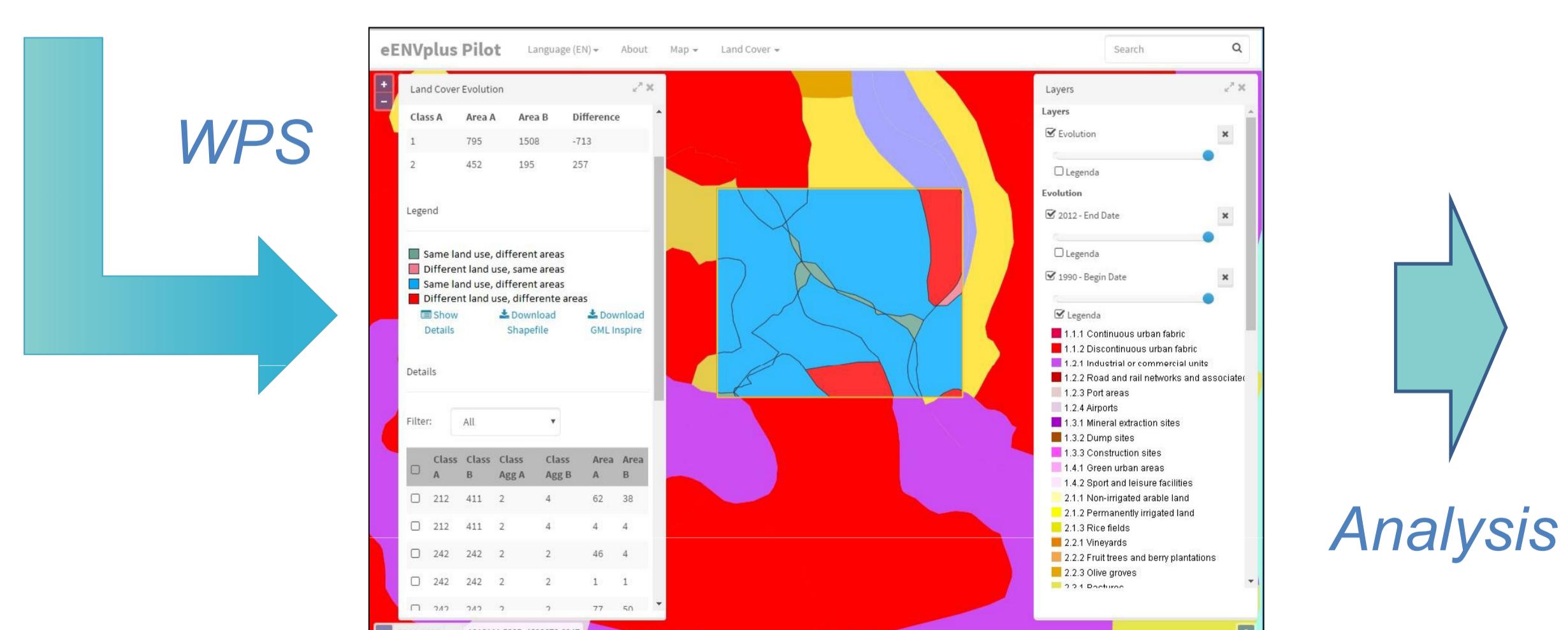
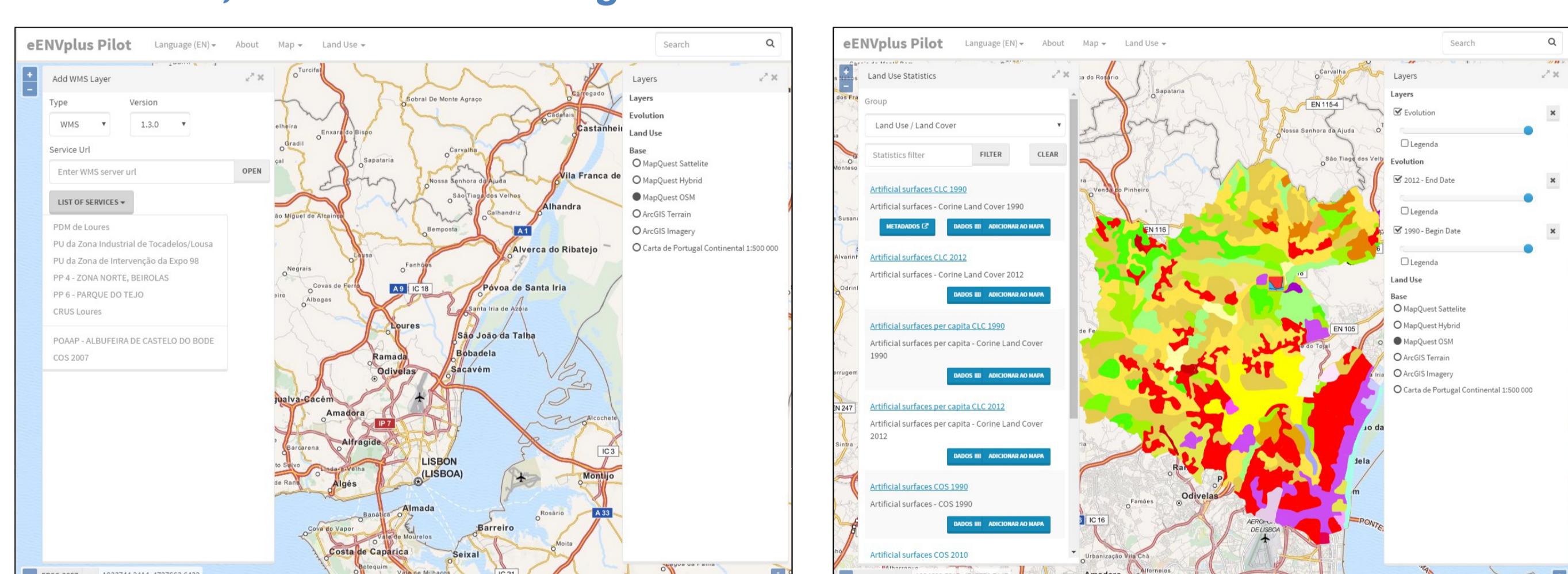
What was made

- INSPIRE data harmonization (LC, LU, AU) and validation.
- Creation and validation of Metadata.
- Creation of indicators to monitor urban dynamics.
- Geoportal development (WFS, WMS and WPS):
 - Open Source.
- Example demonstration.

Data Harmonization



Base info, Land Cover change & Indicators



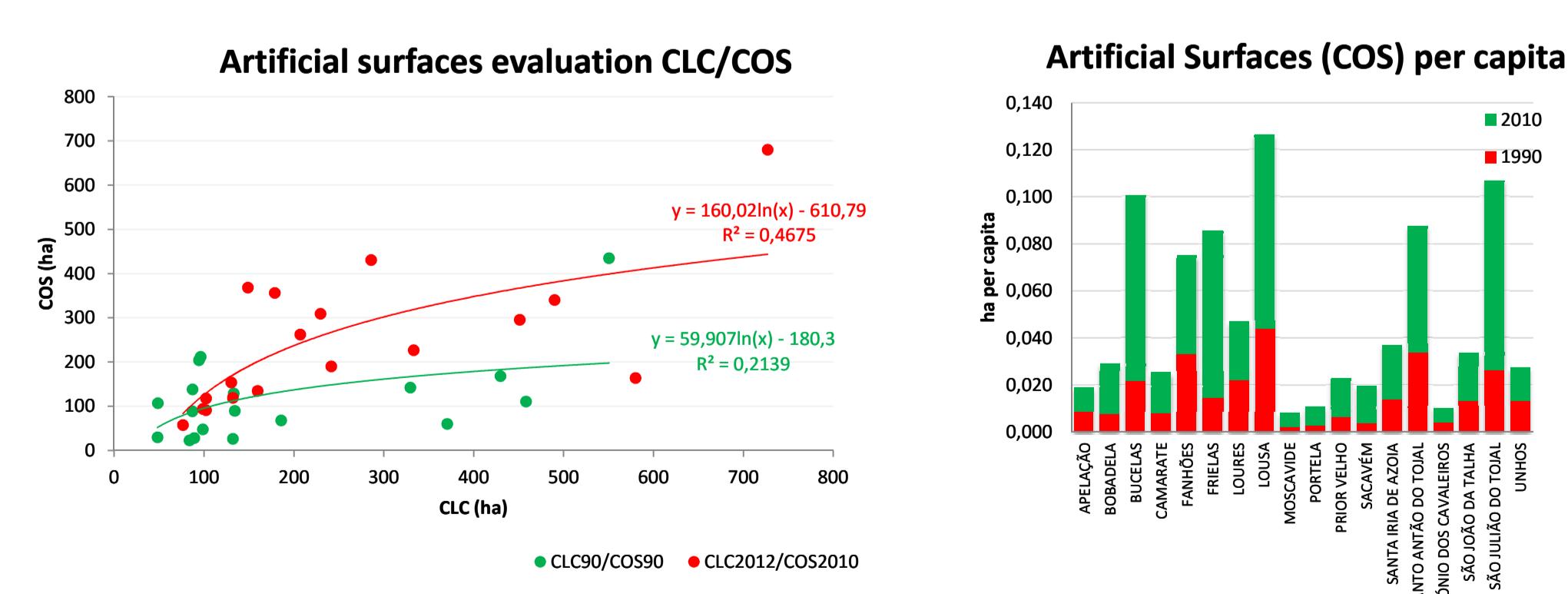
Tools:



Pilot Functionalities

- Visualize datasets and data services.
- Select area and data for processing.
- Determine change between datasets (WPS).
- Visualize and analyze results:
 - Characterize area using indicators .
 - Relate land cover changes with socio-economic data.

Results



www.eenvplus.eu