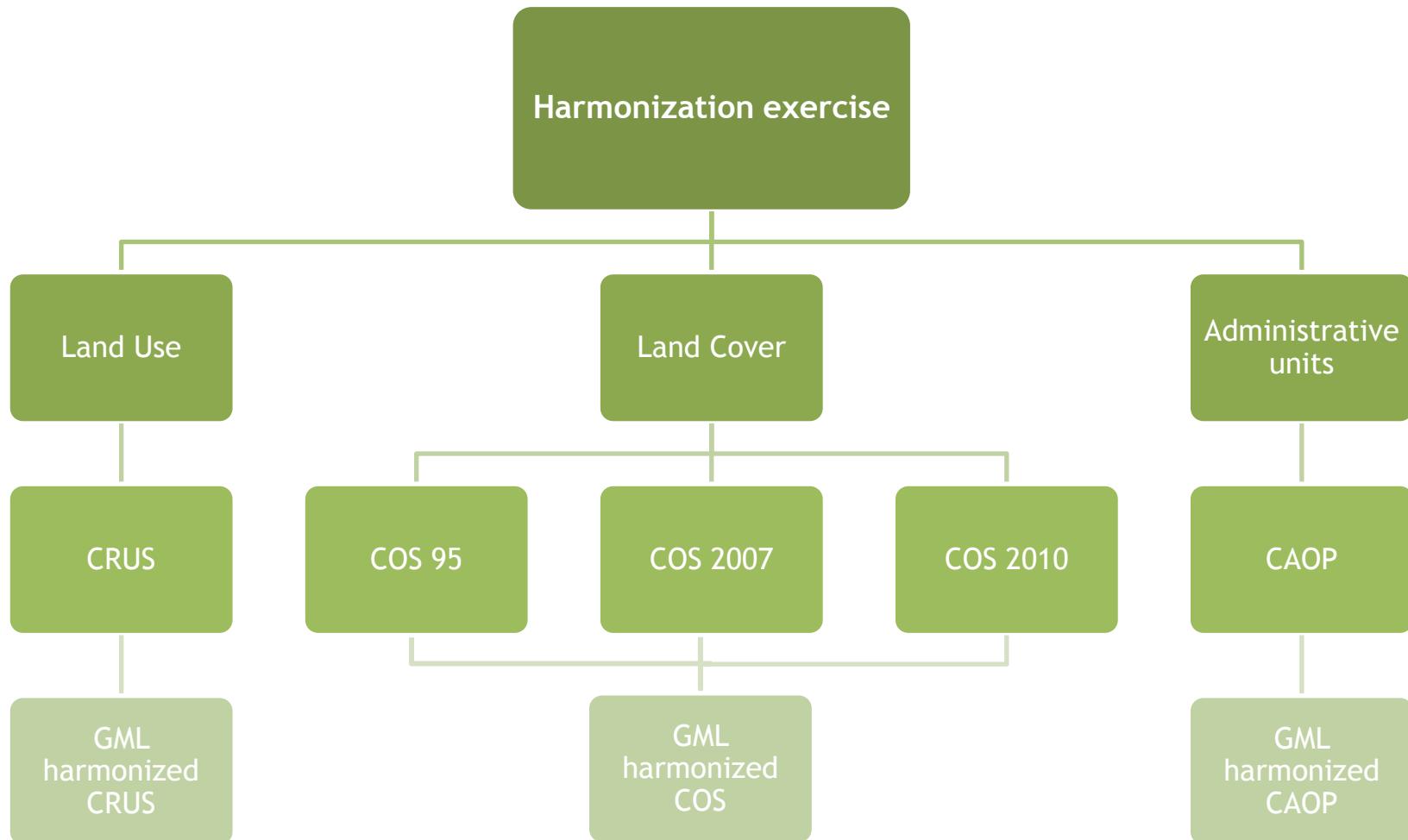


# INSPIRE'd Land Use Planning Dynamic Indicators to Improve Planning Achievements

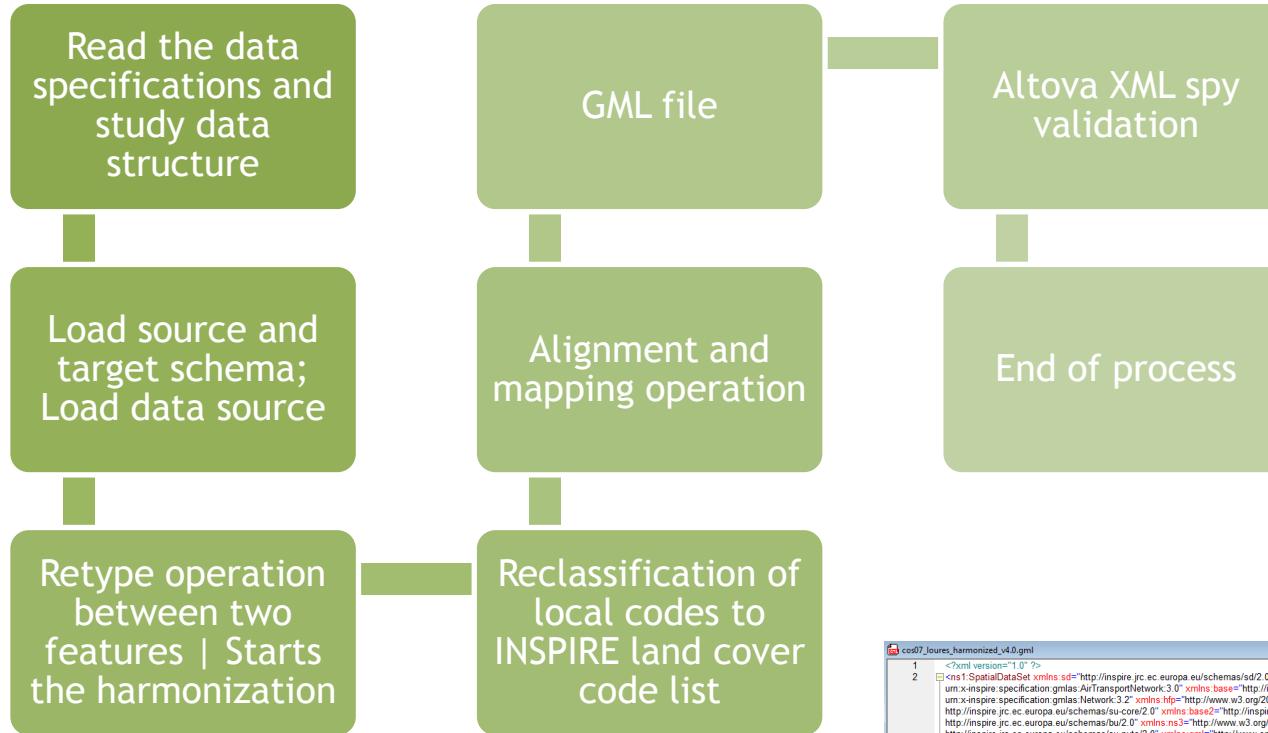
A photograph of a rural landscape with green fields and hills under a clear blue sky, serving as the background for the speaker information.

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<b>INSPIRE Data Theme</b>	<b>Content</b>	<b>Metadata</b>	<b>IPR/ Open data</b>
I. 4. AU: Administrative units	Administrative units of the country: CAOP dataset	ISO 19115	Open data
II. 2. LC: Land cover	COS95	ISO 19115	IPR, data available for eENVplus use
II. 2. LC: Land cover	COS2007	ISO 19115	IPR, data available for eENVplus use
II. 2. LC: Land cover	COS2010	ISO 19115	IPR, data available for eENVplus use
III. 4. LU: Land use	CRUS	ISO 19115	IPR, data available for eENVplus use

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, environmental and socioeconomic data, all harmonized according to the INSPIRE implementing rules



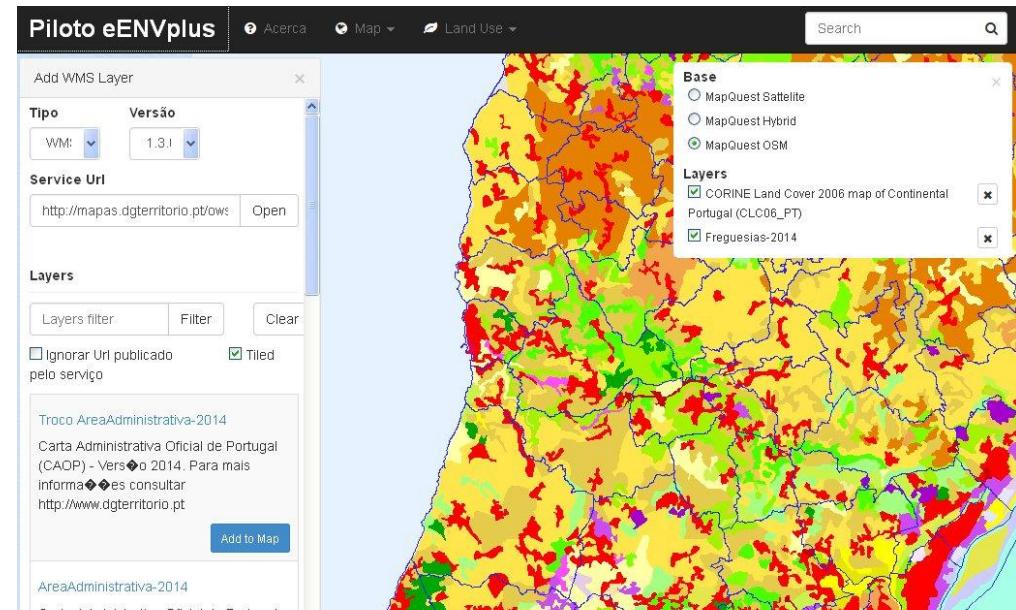
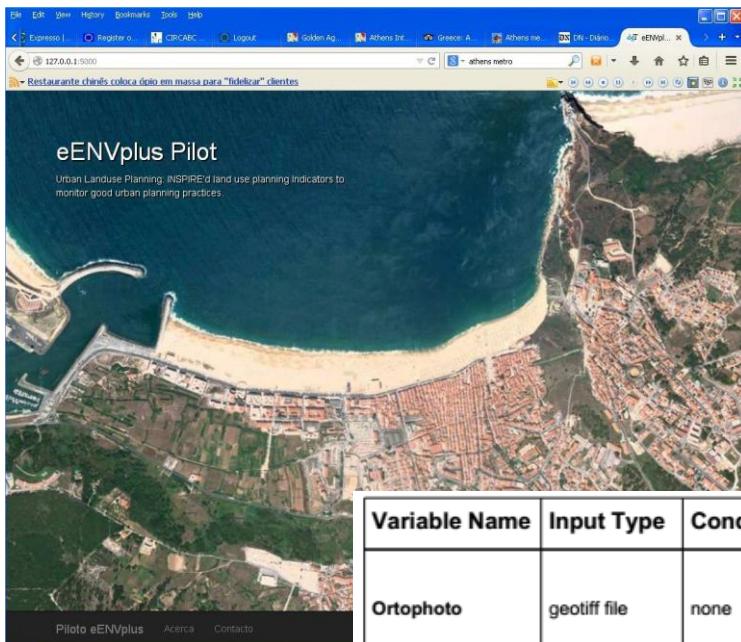
## Codelist

Source value	Target value
1.1.01.1	1.1.1
1.1.02.1	1.1.1
1.1.03.1	1.1.1
1.1.20.1.1	1.1.2
1.2.02.1	1.1.2
1.2.1.01.1	1.2.1
1.2.1.02.1	1.2.1
1.2.1.03.1	1.2.1
1.2.1.04.1	1.2.1
1.2.1.05.1	1.2.1
1.2.20.1.1	1.2.2
1.2.20.2.1	1.2.2
1.2.40.1.1	1.2.4
1.3.1.02.1	1.3.1
1.3.20.2.1	1.3.2
1.3.30.1.1	1.3.3
1.3.30.2.1	1.3.3
1.4.1.01.1	1.4.1
1.4.1.02.1	1.4.1
1.4.2.02.1.2	1.4.2
2.1.1.01.1	2.1.1
2.1.1.02.1	2.1.1

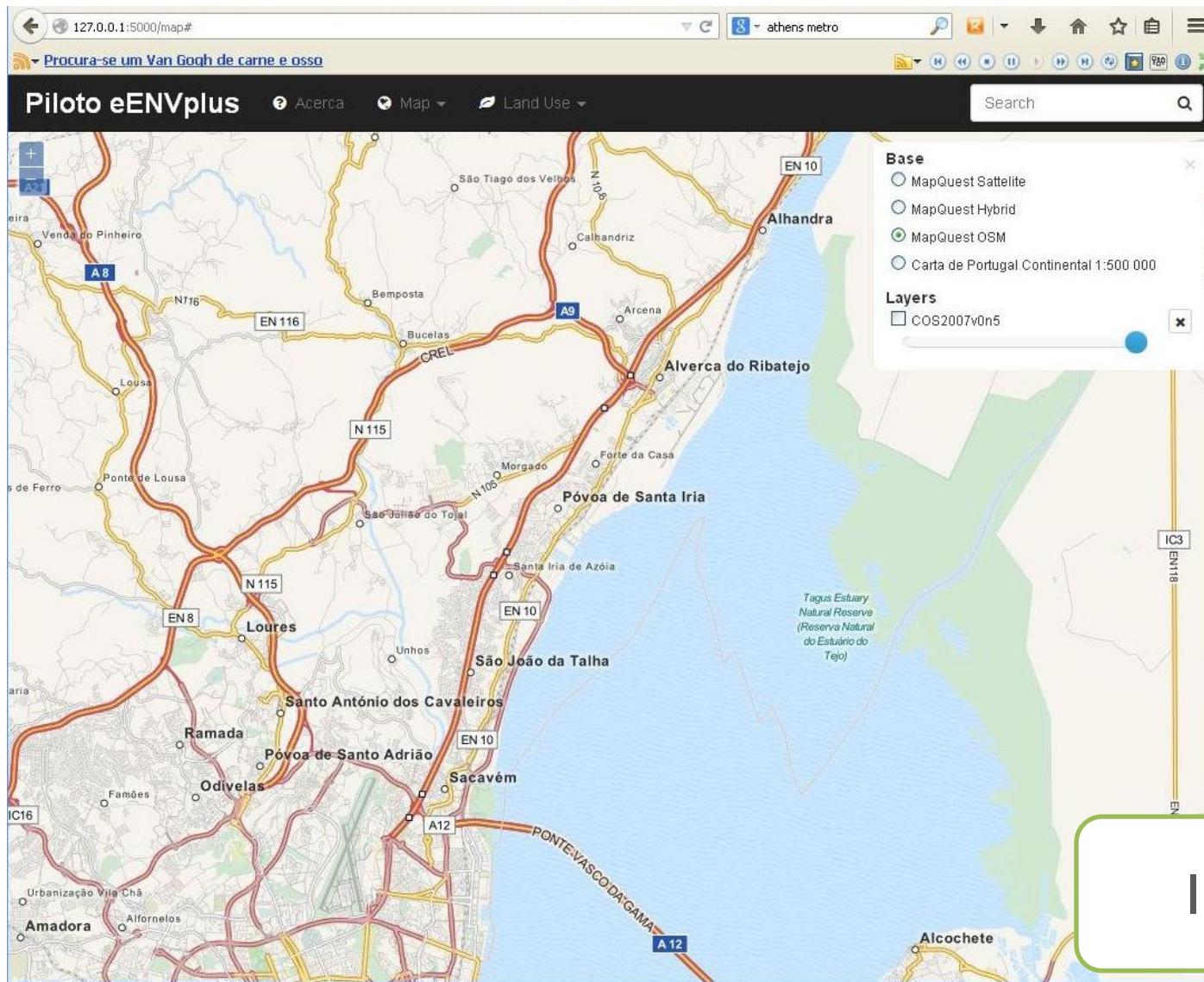
## Validation

A screenshot of the Altova XML Spy interface showing the validation of a GML file. The code editor displays XML code with numerous error and warning markers. The status bar at the bottom shows tabs for Text, Grid, Schema, WSDL, XBRL, Authentic, Browser, and Help. The validation results pane on the right side of the interface shows a large number of errors and warnings, indicating significant issues with the XML structure.

Components finished: web viewer (WMS) interface  
 Components in progress: WPS, Metadata



Variable Name	Input Type	Condition	Default Value	Mandatory	Description
Ortophoto	geotiff file	none	n.a.	no	Orthophotos can be more than one. They will only be used as a background layer to ease data visualization
Administrative units	shapefile	none	n.a.	yes	Basic units for the land cover change task
Land cover	GML or WFS url	none	n.a.	yes	Land cover layers have to be more than one
Land use	GML or WFS url	none	n.a.	yes	Land use layers may be more than one



Screenshot of the eENvplus client interface showing a map of the Alentejo region in Portugal.

The map displays major roads: N115-5, N105, E80, A1, EN10, and the Autoestrada do Norte. Key locations labeled include Morgado, Povo de Santa Iria, Santa Iria de Azóia, and São João da Talha.

A red box highlights the "List of Services" dropdown menu in the "Add WMS Layer" dialog, which lists available services:

- PDM de Loures
- PU da Zona Industrial de Tocadeiros/Lousa
- PU da Zona de Intervenção da Expo 98
- PP 4 - ZONA NORTE, BEIROLAS
- PP 6 - PARQUE DO TEJO
- CRUS Loures
- POAAP - ALBUFEIRA DE CASTELO DO BODE
- COS 2007

A green box highlights the "List of available services" text at the bottom right of the interface.

127.0.0.1:5000/map# athens metro

Mota-Engil valoriza 5% à espera da decisão sobre EGF

Piloto eENVplus Acerca Map Land Use Search

Add WMS Layer

**Tipo** WMS **versão** 1.1.1

**Service Url** http://mapas.dgterritorio.pt/wms/cos2007v0n5 Open

List of Services

**Layers**

Layers filter Filter Clear

Ignorar Url publicado pelo serviço  Tiled

**COS2007v0n5**

Carta de Uso e Ocupação do Solo de Portugal Continental para 2007-COS2007 Nível 5 (v0). A COS2007 é uma cartografia temática que pretende caracterizar com grande detalhe a ocupação/uso do solo no território de Portugal Continental. Com o projecto COS2007 pretende-se actualizar a edição anterior (de 1990) da Carta de Ocupação do Solo (COS90), introduzindo-se no entanto uma série de alterações significativas, quer a nível das metodologias e regras de produção cartográfica, quer a nível da nomenclatura utilizada. Na nova edição

**Base**

- MapQuest Sattelite
- MapQuest Hybrid
- MapQuest OSM
- Carta de Portugal Continental 1:500 000

**Layers**

COS2007v0n5

Piloto eENVplus Acerca Map Land Use

Add WMS Layer

Tipo	Versão
WMS	1.3.0

Service Url: <http://www.igeo.pt/WMS/CRUS/CF> Open

List of Services

Ignorar Url publicado pelo serviço  Tiled

**Layers**

- CRUS\_Municipal Add to Map
- Espaço de Uso Especial - Equipamentos e Infra-estruturas Add to Map
- Sem Qualificação Funcional Add to Map
- Espaço de Uso Especial - Equipamentos e Infra-estruturas Add to Map

1<sup>st</sup> step: select the data

**Layers**

Layers filter Filter Clear

Ignorar Url publicado pelo serviço  Tiled

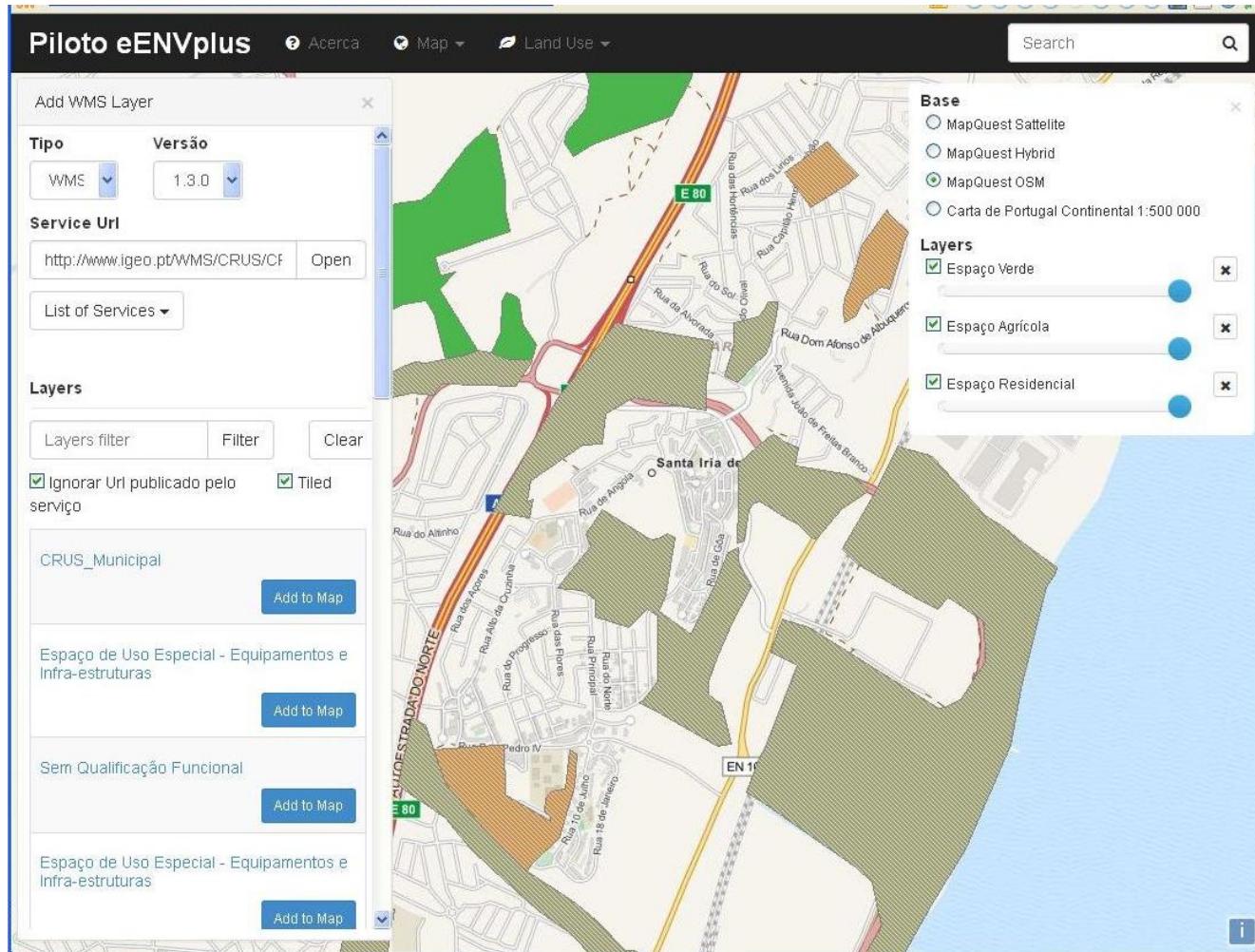
**CRUS\_Municipal** Add to Map

**Espaço de Uso Especial - Equipamentos e Infra-estruturas** Add to Map

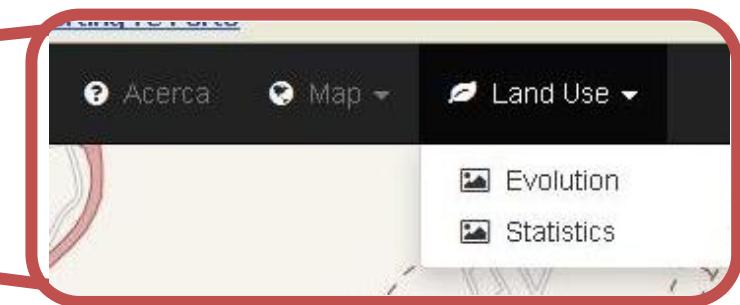
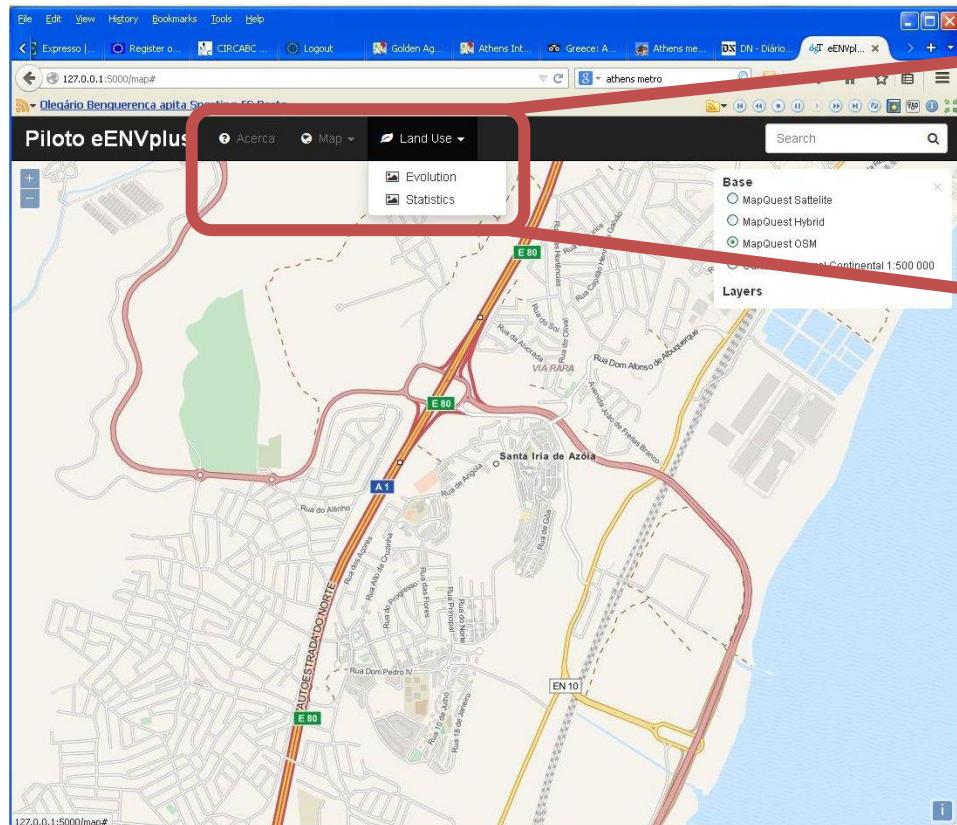
**Sem Qualificação Funcional** Add to Map

**Espaço de Uso Especial - Equipamentos e Infra-estruturas** Add to Map

## 2<sup>nd</sup> step: visualize the dataset



## Next steps: Evolution and statistic tools



**Evolution** - change detection operation

**Statistics** - Territorial, social, economical, environmental indicators

1. Metadata availability
2. Web processing availability
3. Setting up the web service for the LU/LC data
4. Building dynamic territorial indicators to monitor and support land use planning activities.

Contact details

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Raquel Saraiva | rsaraiva@dgterritorio.pt

# Thank you!

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