

How INSPIRE could better support EU GIS analysts



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EuroSDR/EuroGeographics workshop on “Use of INSPIRE data: past experiences and scenarios for the future”

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About GISCO

- *Service of the European Commission (Eurostat)*
- *Role: Answer needs of European Commission for geographical information at EU/national/regional levels.*
 - **Provision of GIS (reference) data, services and software**
 - **Support cartographic and spatial analysis activities**
 - **Support activities on the integration of statistical and geospatial information**
 - **Coordinates commission-wide GI activities**
 - **Stimulate the use of GIS to support commission activities**

Overall data needs

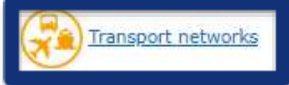
- *Thematic scope*
- *Geographical extent*
- *Cross-country comparability*
- *Resolution – level of detail*
- *Timeliness and update frequency*
- *Access, licensing and sustainability*

- ***How could INSPIRE data better support these needs?***

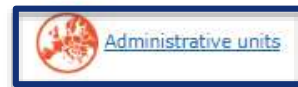
Thematic scope

- *Main strength of INSPIRE: Broad thematic scope.*

ANNEX: 1



ANNEX: 2



ANNEX: 3



Thematic scope

- *Uncovered needs:*
 - **Economic activities**
 - **Energy production and transport**

Geographical extent

- *Need for pan-European datasets*



Data Sets - Transport networks of Europe



Show: Downloadable Viewable

INSPIRE Geoportal Data Set Statistics

3220
Metadata records

108
Downloadable Data Sets

Select a COUNTRY

Austria 34 0 25	Finland 127 0 0	Latvia 26 0 3	Portugal 20 0 1
Belgium 14 10 13	France 1554 22 144	Liechtenstein 4 1 1	Romania 5 1 2
Bulgaria 1 0 0	Germany 266 38 77	Lithuania 5 0 1	Slovakia 17 0 1
Croatia 19 1 1	Greece 0 0 0	Luxembourg 8 8 8	Slovenia 1 1 1
Cyprus 2 1 2	Hungary 9 0 0	Malta 2 2 2	Spain 3 1 1
Czech Republic 8 0 6	Iceland 8 1 0	Netherlands 23 11 18	Sweden 37 0 17
Denmark 4 3 3	Ireland 1 0 0	Norway 14 0 0	Switzerland 12 0 0
Estonia 7 3 3	Italy 794 0 6	Poland 27 2 4	United Kingdom 166 2 1



INSPIRE GEOPORTAL

Enhancing access to European spatial data

European Commission > INSPIRE > Geoportal > INSPIRE Thematic Viewer

Home | Priority Data Sets Viewer | INSPIRE Thematic Viewer | Harvesting status | Find out more about

Data Sets - Transport networks of Europe



Show: Downloadable Viewable

INSPIRE Geoportal Data Set Statistics

31 Metadata records	1 Downloadable Data Sets
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Select a COUNTRY

Austria 34 0 25	Finland 127 0 0	Latvia 25 0 3	Portugal 20 0 1
Belgium 14 10 13	France 1554 22 144	Liechtenstein 4 1 1	Romania 5 1 2
Bulgaria			Sweden 37 0 17
Croatia			Switzerland 12 0 0
Cyprus			United Kingdom 166 2 1
Czech Republic 8 0 6	Iceland 8 1 0	Netherlands 23 11 16	
Denmark 4 3 3	Ireland 1 0 0	Norway 14 0 0	
Estonia 7 1 3	Italy 794 0 6	Poland 27 2 4	

EU

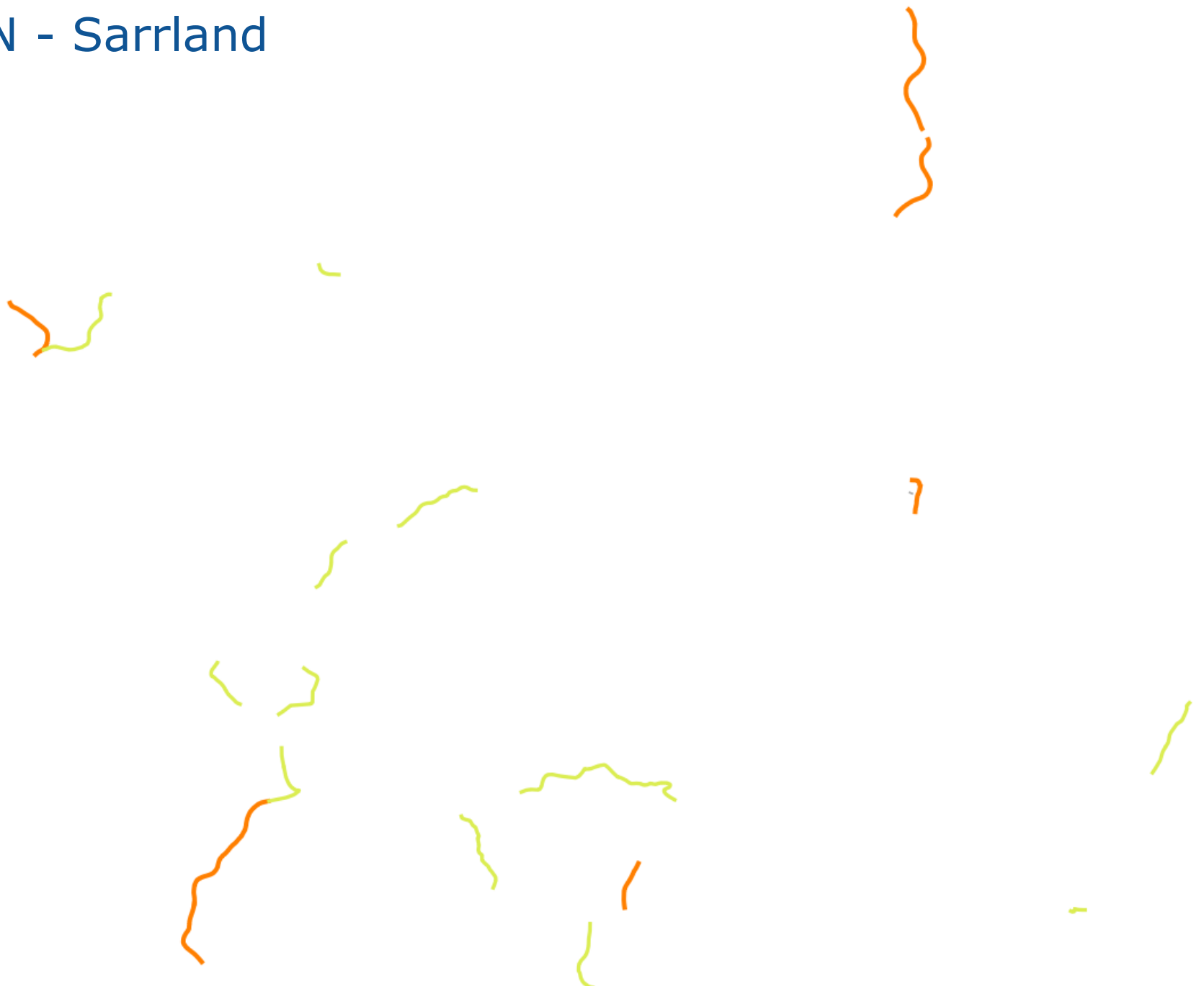
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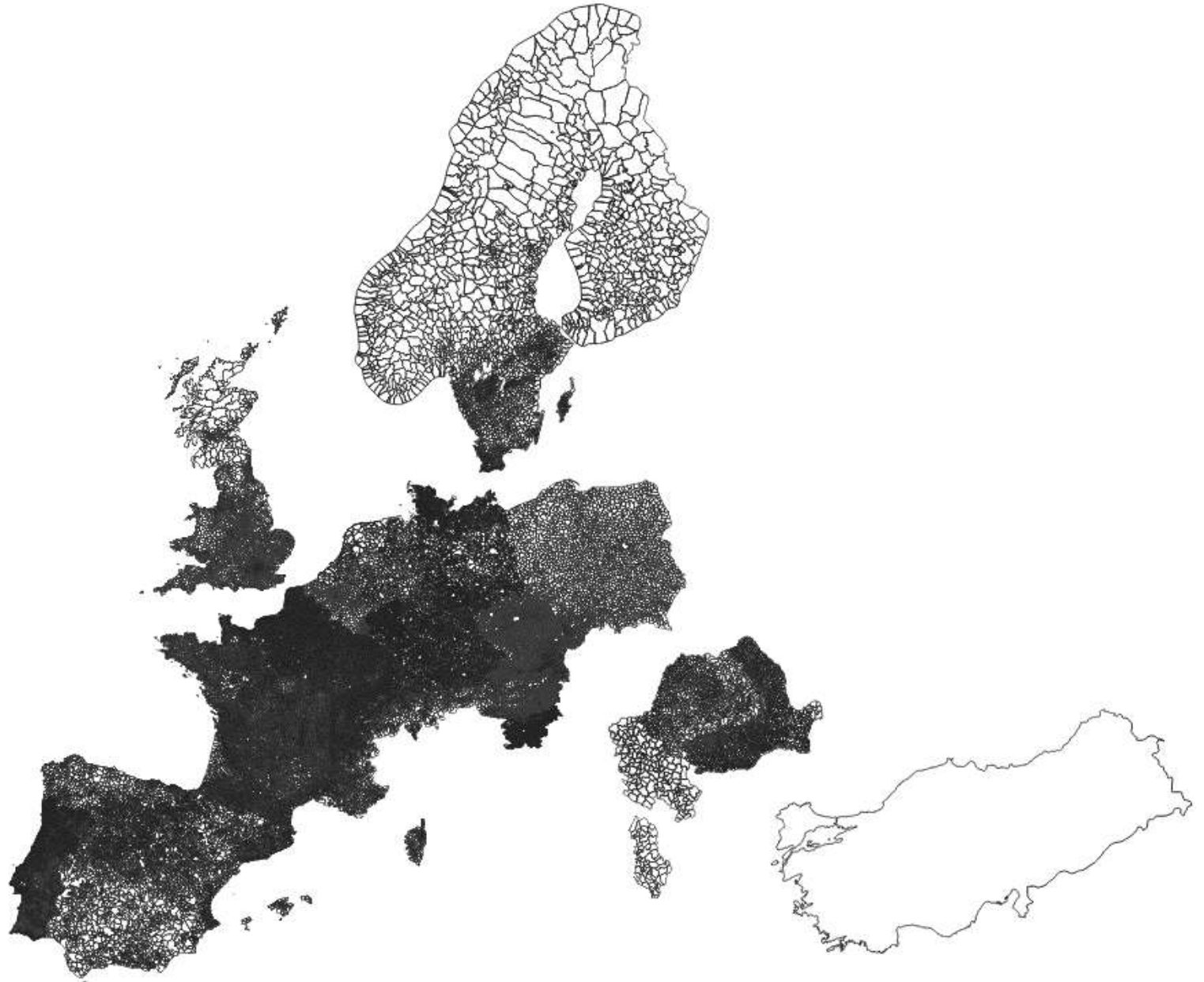
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TN - Sarrland



AU – Data from NMCA websites



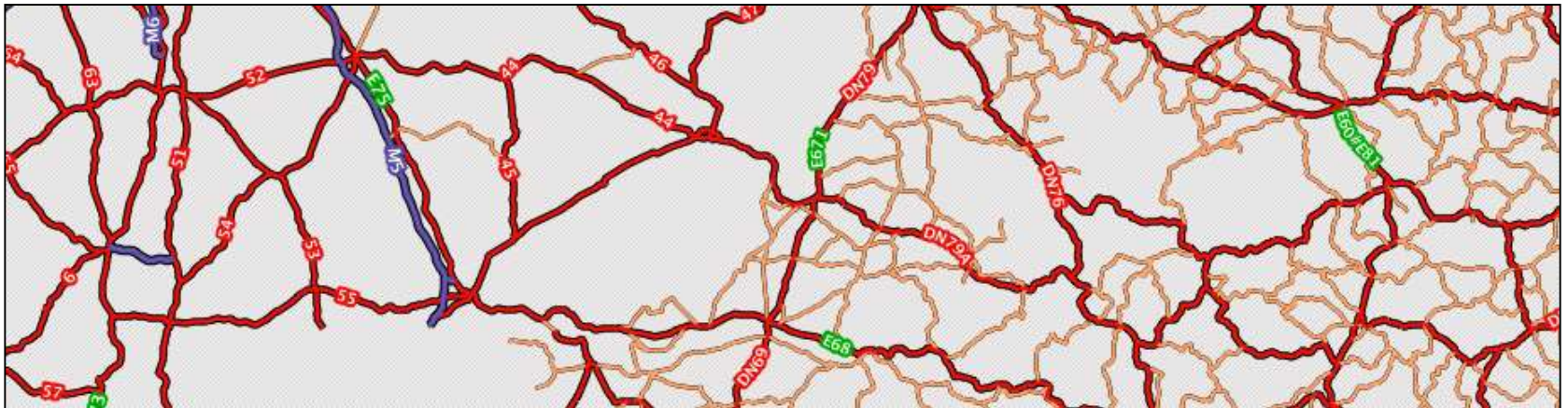
Need for pan-European datasets



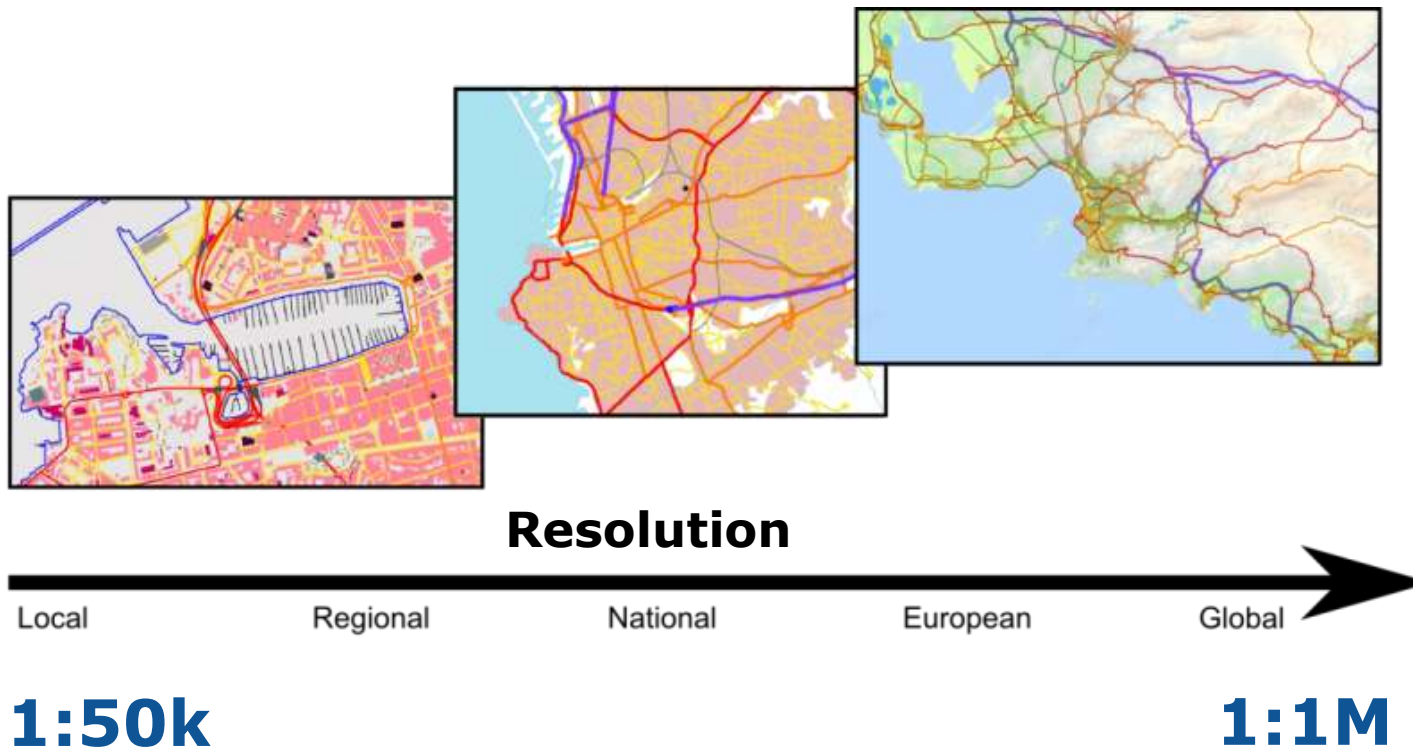
- *Edge-matched*
- *Geometrically and semantically harmonised*
- *Cross-thematic consistency*

Need for pan-European datasets

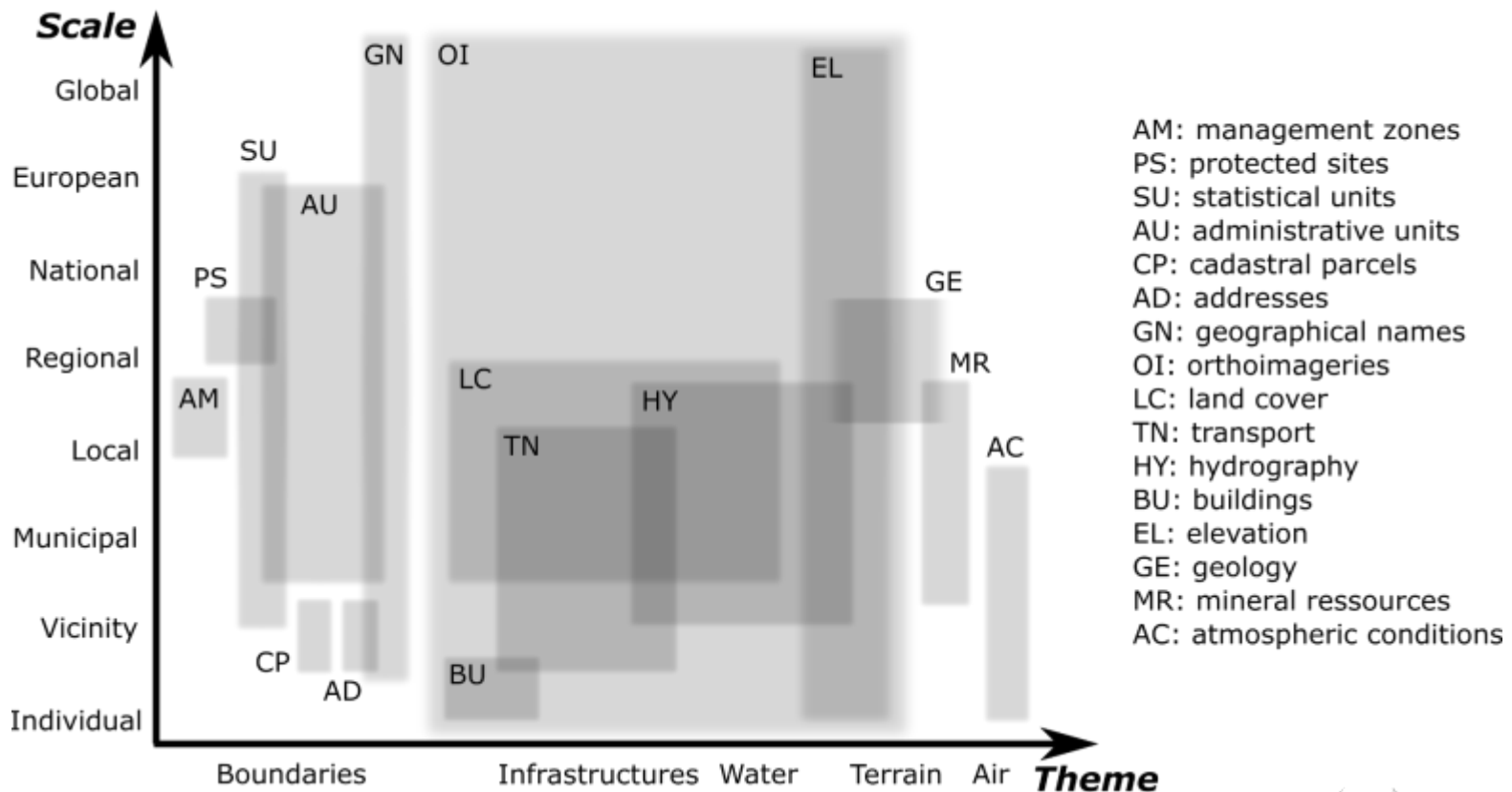
- *Need for cross-country comparability*
« *spatial interoperability* »



Need for multi-resolution data



Need for multi-resolution data



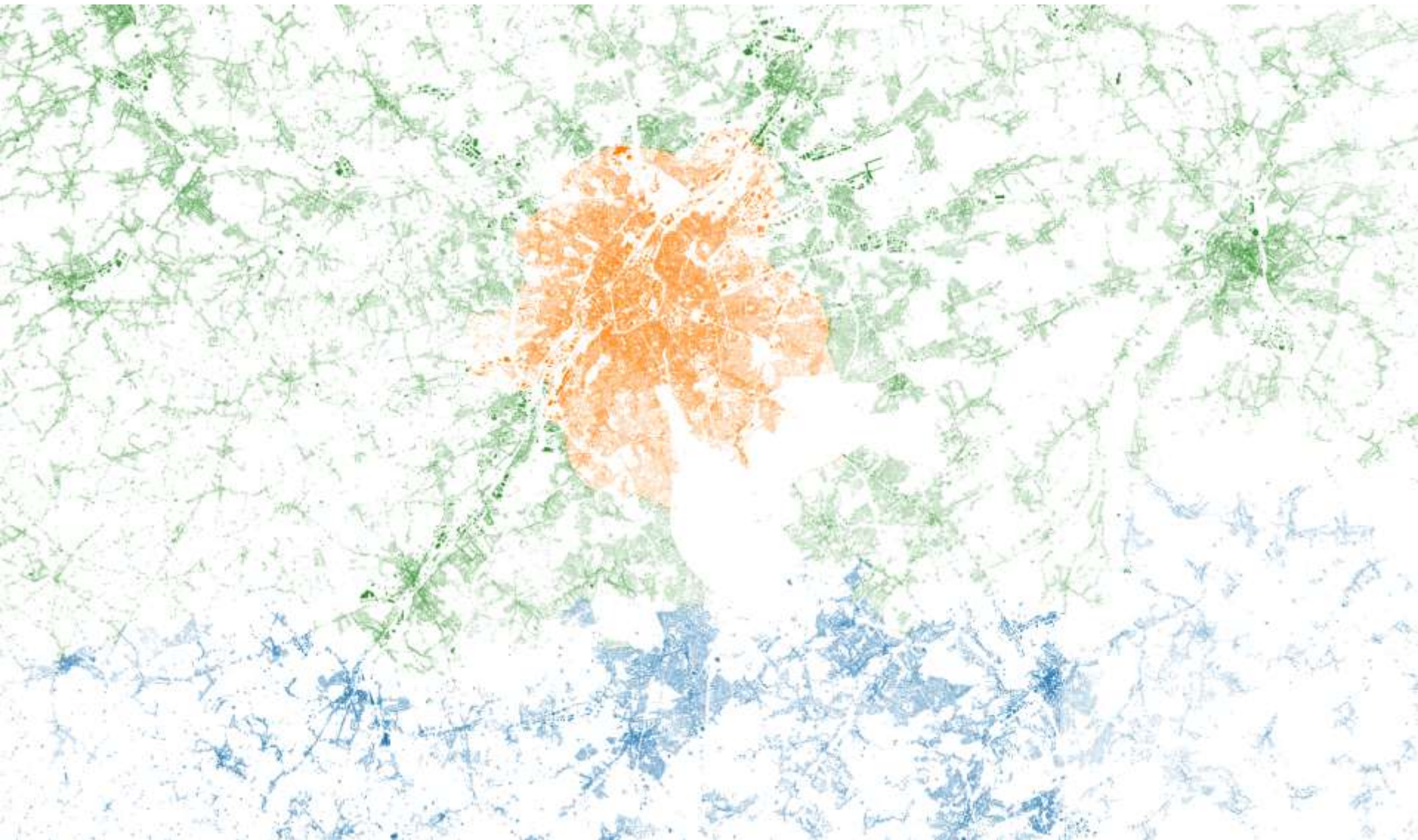
Timeliness and update frequency

- *No explicit requirement on updates in INSPIRE*
- *Ultimate goal: Continuously updated data*

Access, licensing and sustainability

- *Easy access (download link)*
 - **Weak need for harmonised network services, formats and CRS**
- *Non-restrictive licensing conditions*
 - **Priority for EC-internal use. Public sector access.**
 - **Sub-contractors**
- *Sustainability of the data source*
 - **Short term availability + Long term maintenance**
 - **Stable identifiers**

Building – Belgium



Overall data needs

- *Thematic scope*
- *Geographical extent*
- *Cross-country comparability*
- *Resolution – level of detail*
- *Timeliness and update frequency*
- *Access, licensing and sustainability*

Need for centralisation

- *Most of these requirements cannot be met together in a distributed SDI infrastructure*
 - **Integration, edge-matching, generalisation, continuous updating**
- *Need for a new generation SDI with centrally-managed components*



« Implementing INSPIRE is not an objective but a means »