

Assessing the status of Open SDI/INSPIRE in Europe

Mind the Gap

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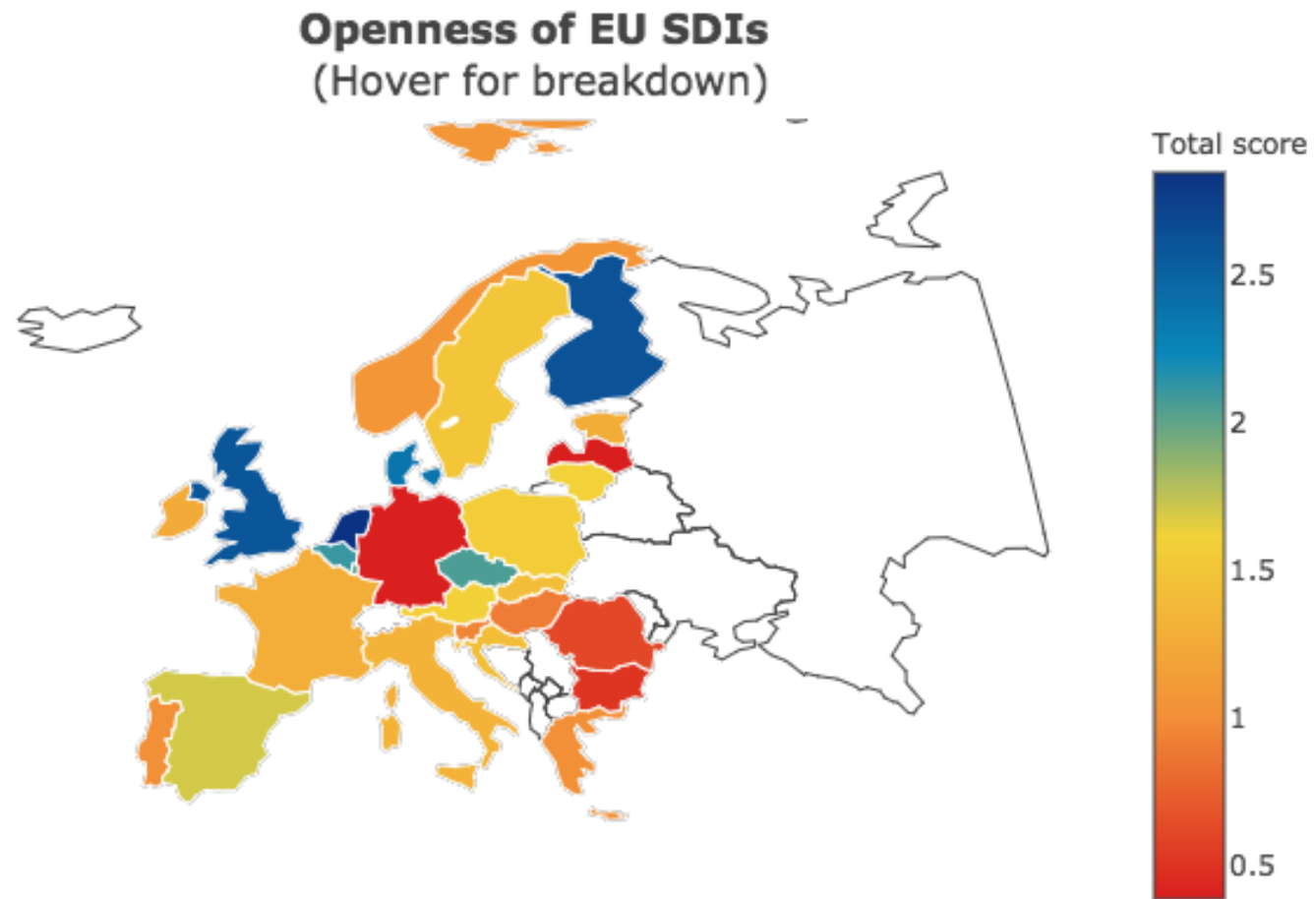
The students



Topic of today

Open SDI

Map of Open SDI



Context

TU Delft, Master of Geomatics



5 ECTS Master Course Geomatics

GEO-INFORMATION ORGANIZATION AND LEGISLATION

This year's assignment

Write a paper on the status of the open SDI in a European country

1. **develop** an assessment framework for measuring the openness of spatial data infrastructures
2. **apply** this framework to one European country
3. **suggest** a plan to arrive at a next level of an open SDI

User profile

- Has no money
- Has no idea what INSPIRE or a geoportal is
- Just wants to download and play with the data
- Speaks English

Open SDI

Looking for a definition

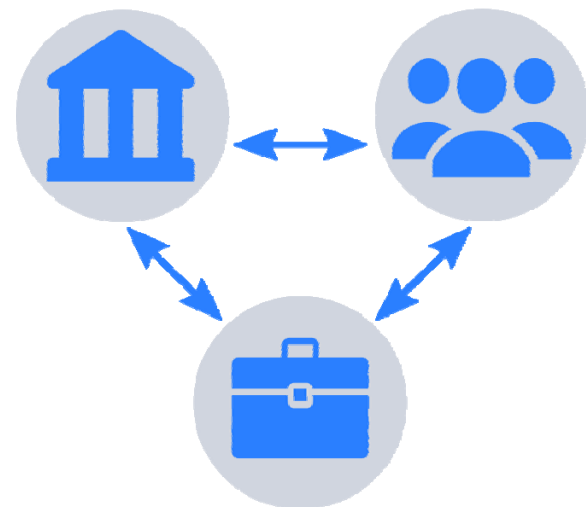
- **Open spatial data**
 1. Complete
 2. Primary
 3. Non-discriminatory
 4. Machine processable
 5. ...

Based on 8 principles of Open Government
Data Sebastopol meeting

- **Open Infrastructure development**
 - Governance
 - Data
 - Accessibility

- **Open government**
 - Transparency
 - Collaboration
 - Participation

- **Open spatial ecosystem**

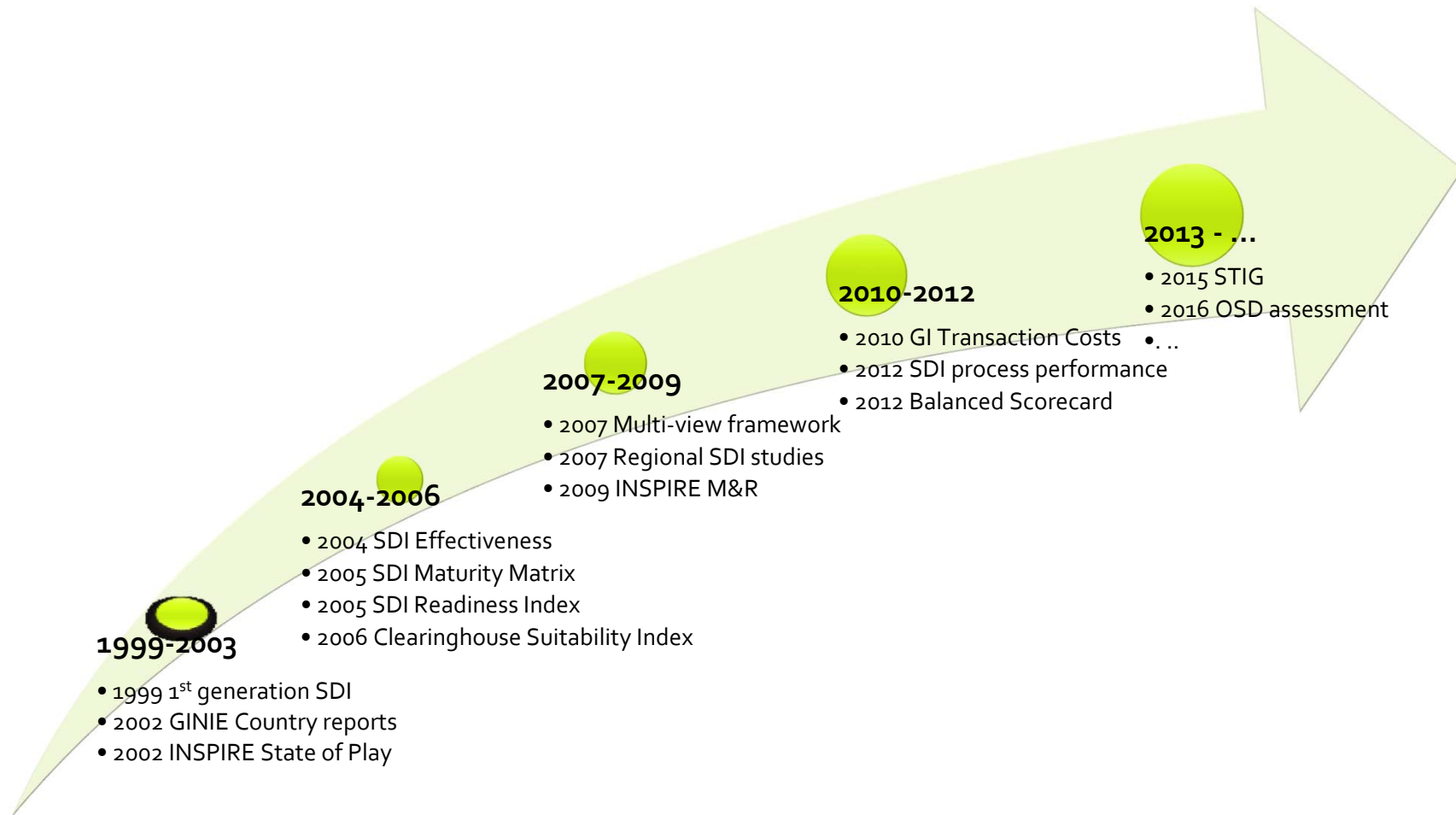


An SDI where governmental and non-governmental actors commonly govern, and freely share open data.

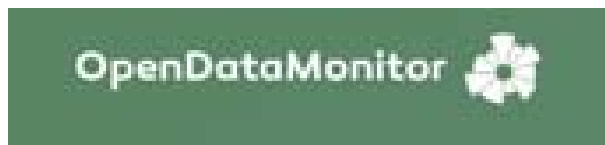
Assessment framework(s)

Development, relevance

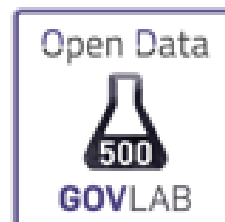
SDI assessment



Open data assessment



PSI Scoreboard



Open spatial data assessment framework

1. Readiness	2. Data	3. Impact
Technological and non-technological components	Availability and accessibility of spatial data and services	Socio-economic benefits of using spatial data and services
To involve non-government actors in developing and implementing the SDI	To businesses, citizens, non-profit organizations and other actors	For businesses, citizens, non-profit organizations and other actors

OSD assessment

Key Performance Indicators

1. Readiness

- Establishment of components to enable the participation of non-government actors in implementing SDI/INSPIRE
- Indicators
 - 1.1. vision on Open SDI
 - 1.2. participation of non-government actors in SDI decision making
 - 1.3. open data policy (for all – spatial – data)
 - 1.4 non-government data included in the SDI

2. Data

- Availability and accessibility of spatial data to non-government actors
- Focus on two datasets:
 - topographic data 1:10000
 - address data

2. Data

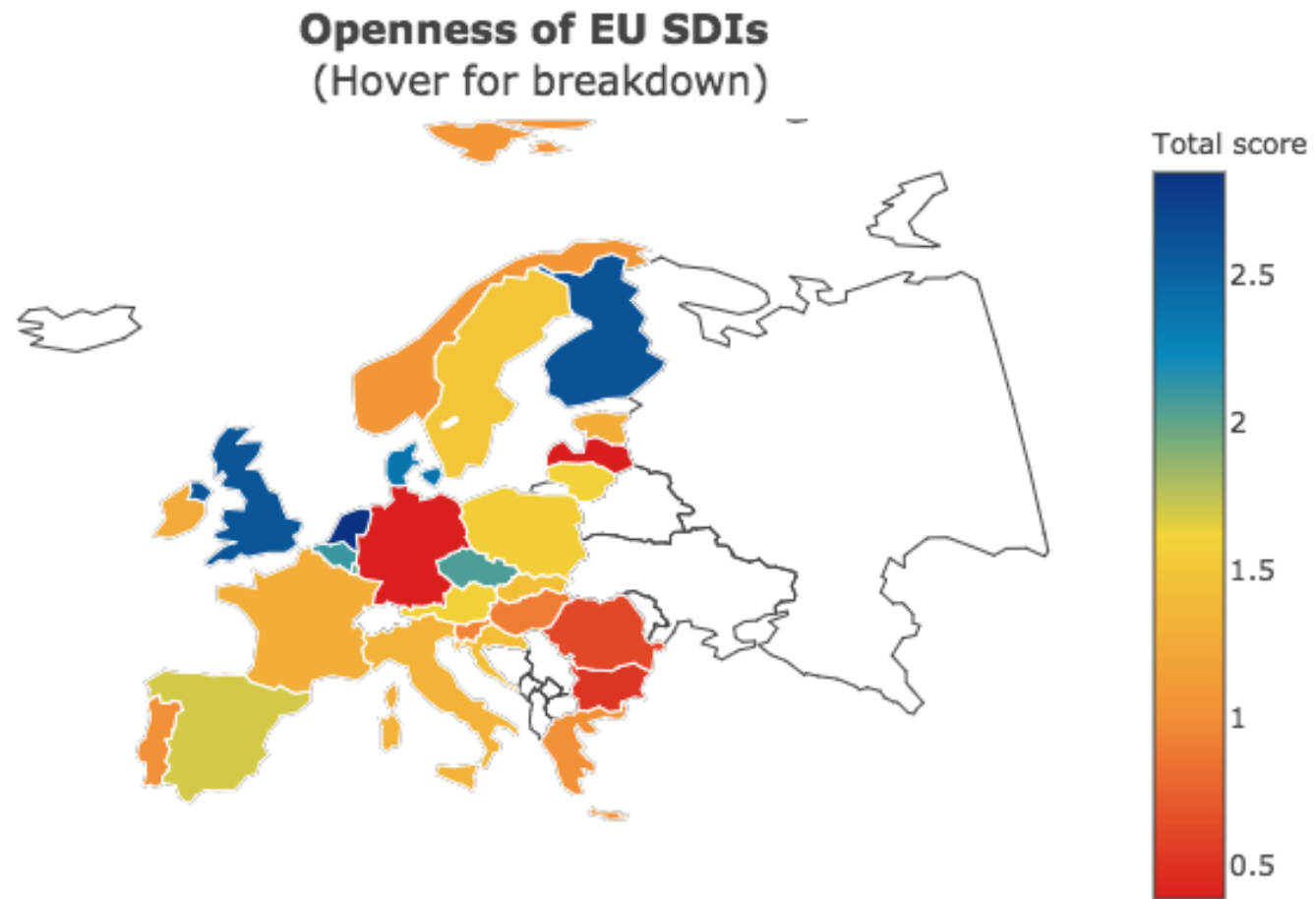
- Indicators
 - 2.1. search engine score
 - 2.2. available through geoportal and/or open data portal
 - 2.3. language(s)
 - 2.4. publicly available
 - 2.5. discovery, view and download services
 - 2.6. available for free
 - 2.7. use restrictions
 - 2.8. interoperability
 - 2.9. use statistics

3. Impact

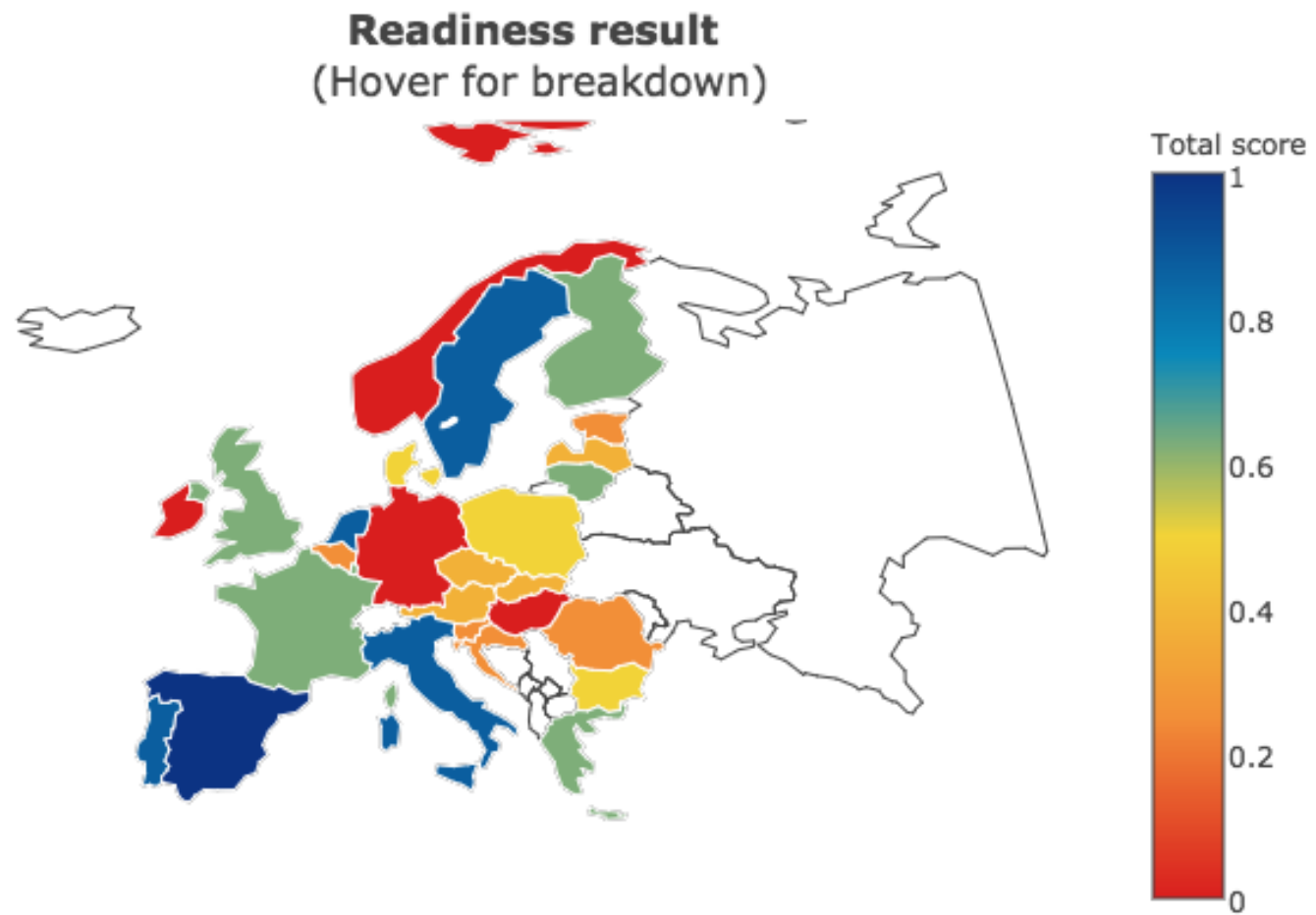
- Use of spatial data by non-government actors and associated benefits
- Indicators
 - 3.1. use cases of non-government actors using open spatial data
 - 3.2. studies showing the benefits of open spatial data

Results

Map of Open SDI

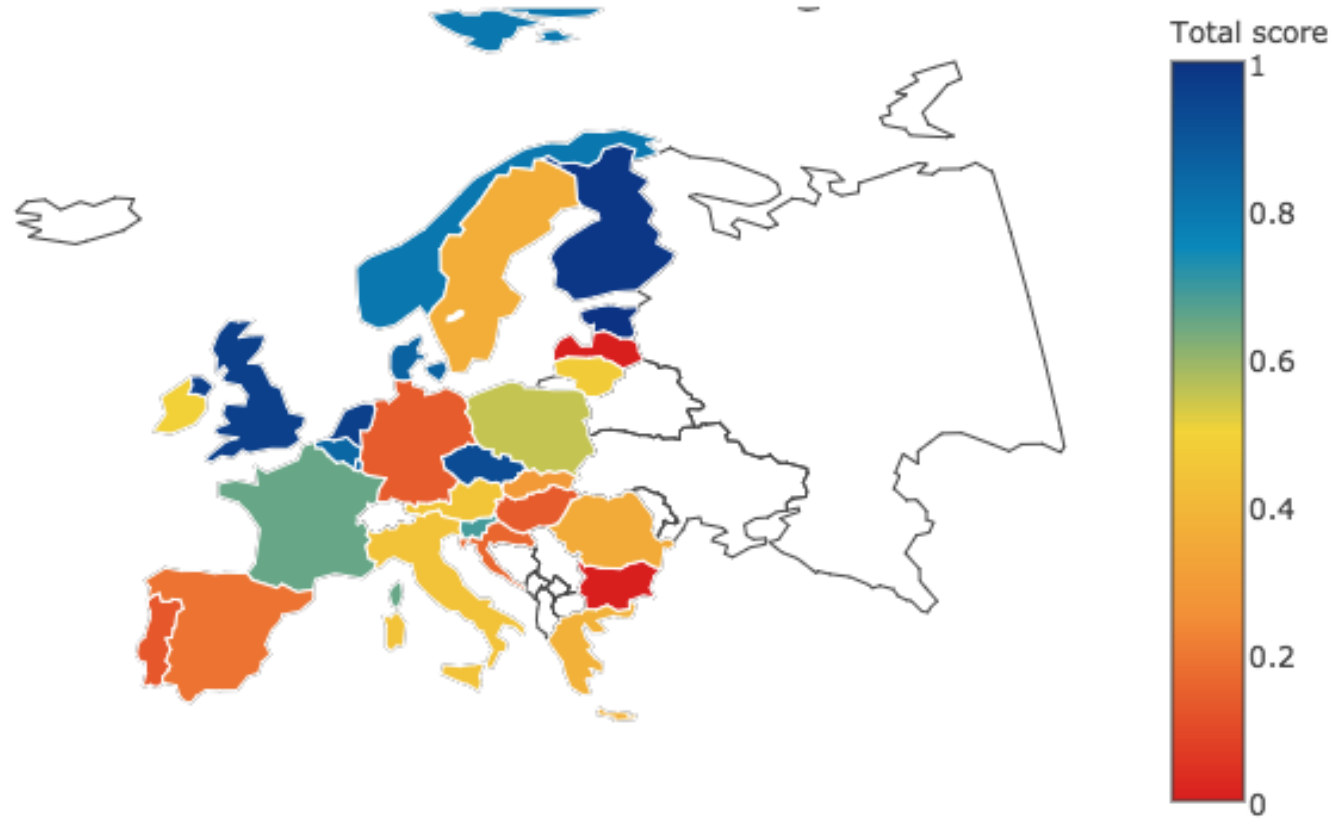


Map of Open SDI - Readiness

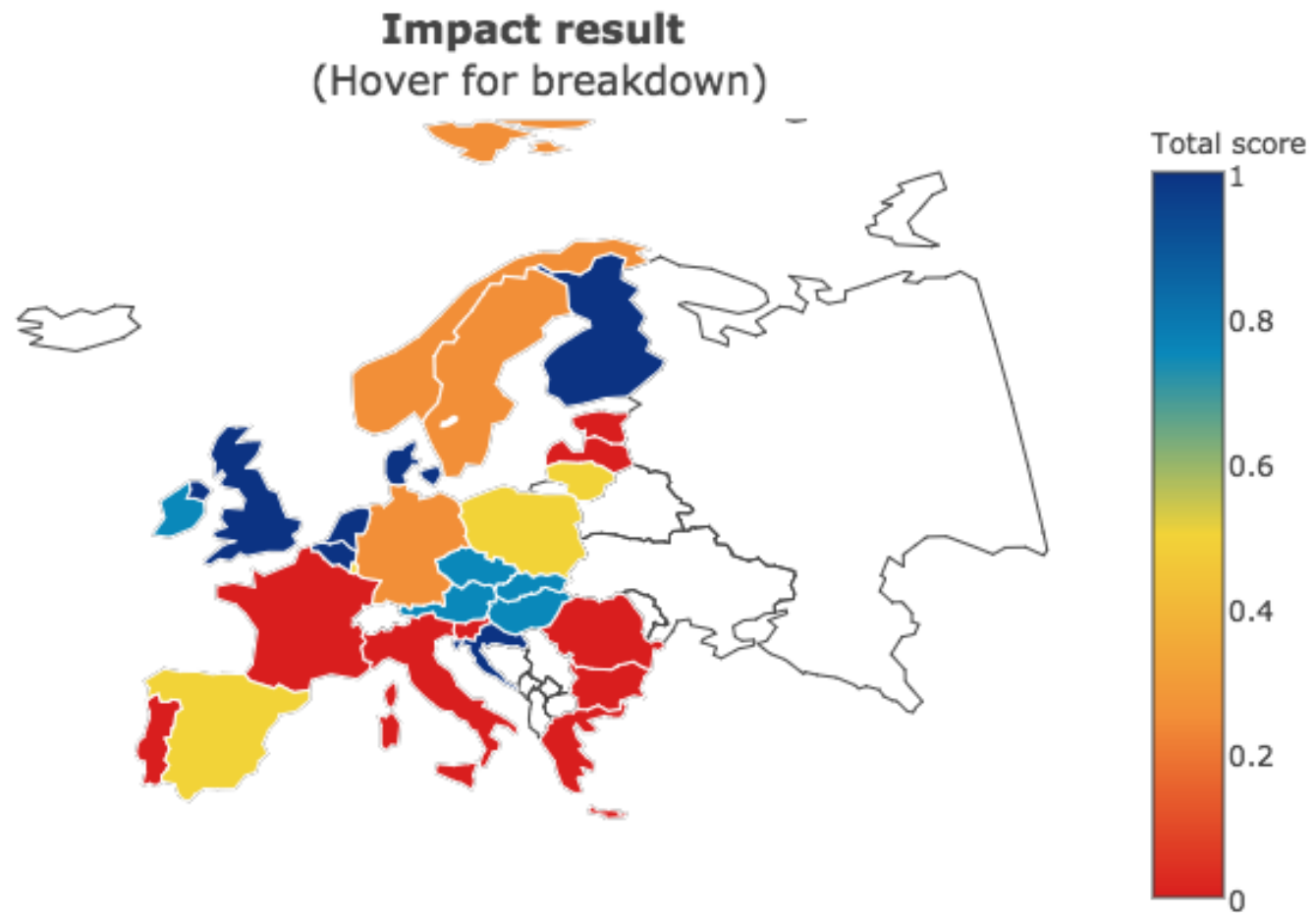


Map of Open SDI - Data

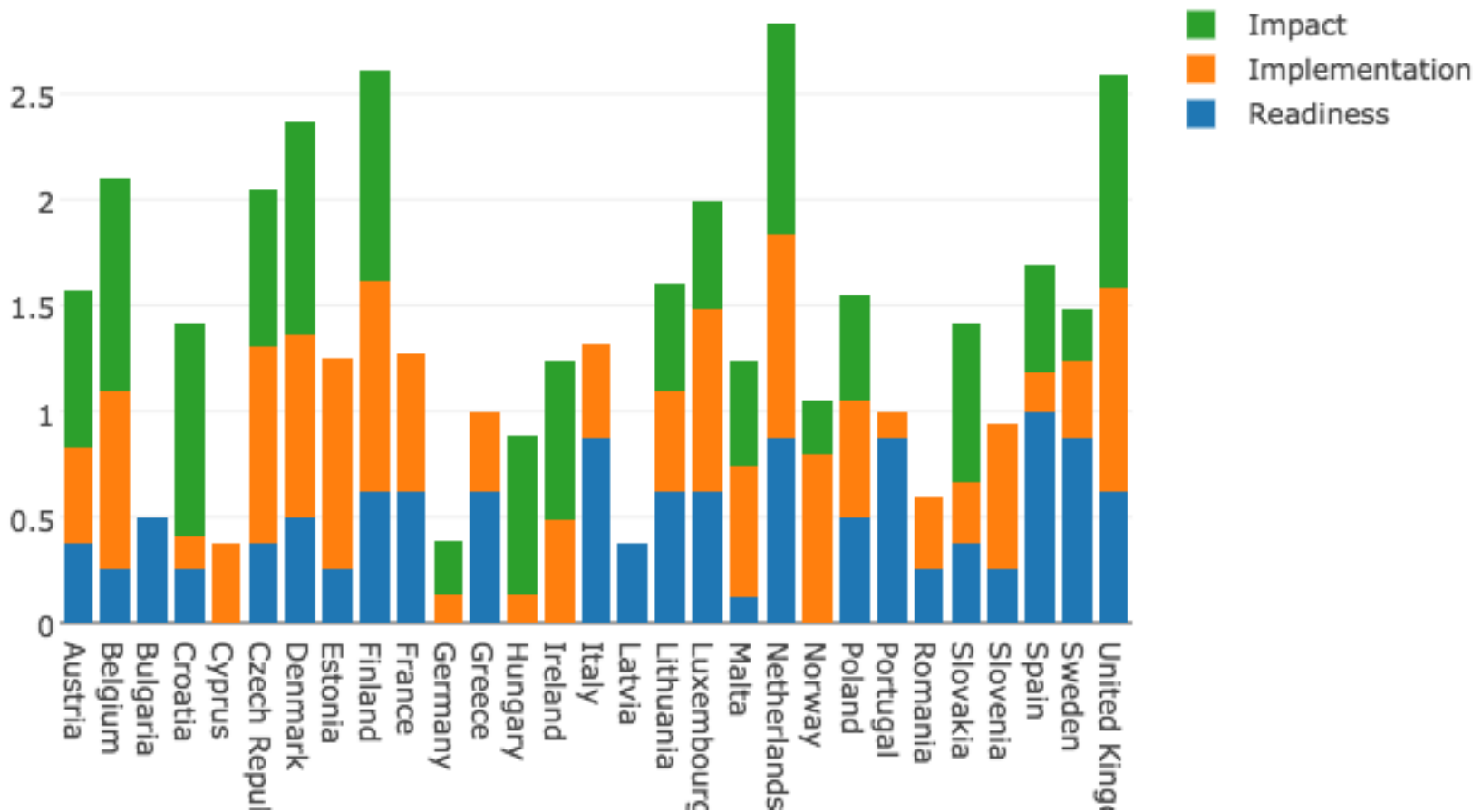
Implementation result
(Hover for breakdown)



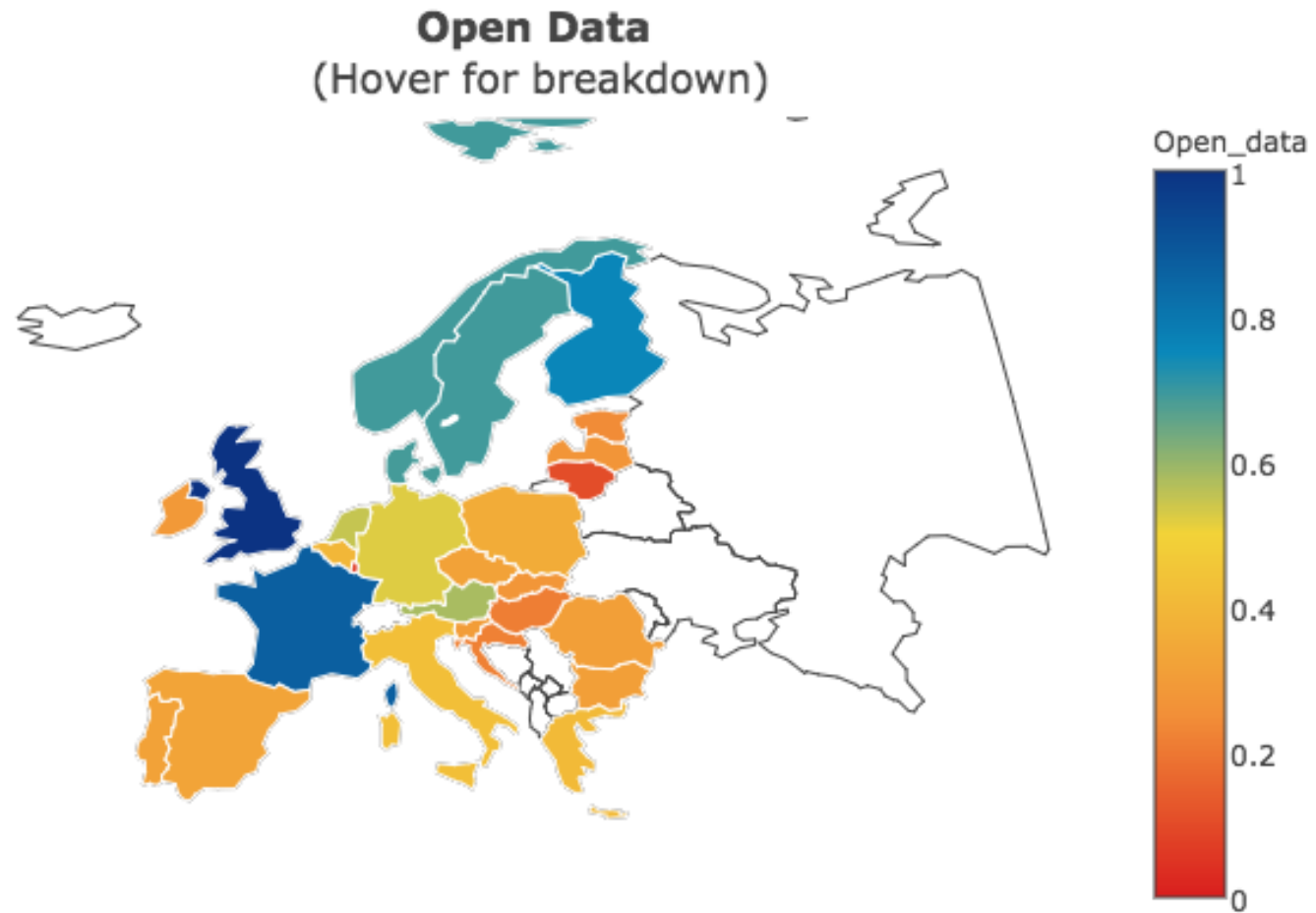
Map of Open SDI - Impact



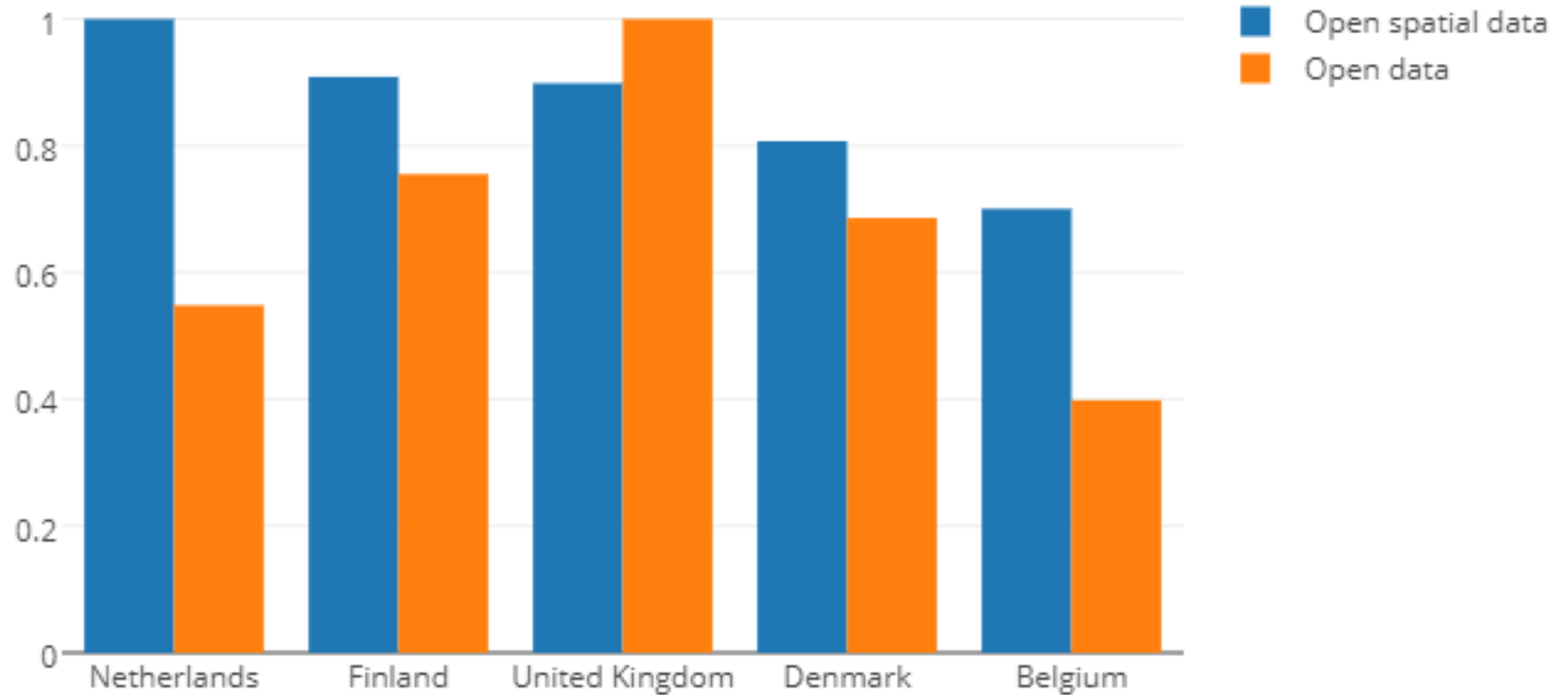
Map of Open SDI - overview



Map of Open data



TOP 5: OSD versus OD



Conclusion

Mind the gap

International non-spatial data user

- **Hard to find:**
 - Language barrier
 - Not in first 20 Google results
 - No common dataset naming
 - Multiple access points
- **Hard to understand:**
 - Language barrier
 - Geoportal search gives irrelevant results
- **Hard to use:**
 - Many datasets
 - National licenses

All in all...

- There is a difference between an expert and non-expert users.
- Also between an SDI and open SDI
- There is a gap between Open Data and Open Spatial Data

Resources

- Icons: Suitcase: [Xinh Studio](#); People: [Ivan Boyko](#), [CC BY 3.0](#), Temple: own work.
- All visualizations were made using Plotly Python Offline, under [MIT license](#)



Thank you for your attention



Comments? Questions? Interested to contribute?

Let us know!

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Visit our website

<http://kcopendata.eu/openSDI>