

Assessing the status of Open SDI/INSPIRE in Europe

# Mind the Gap

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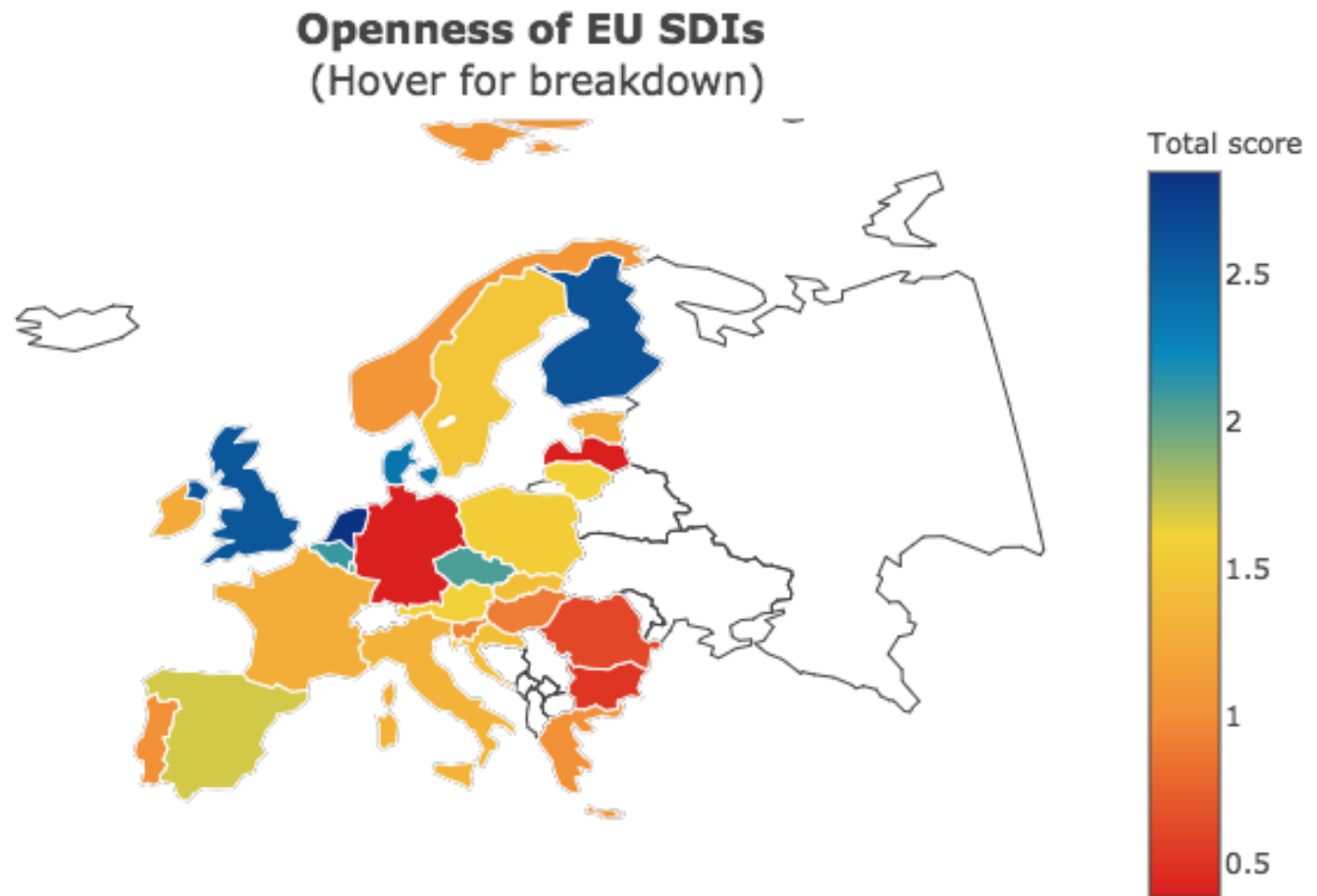
# The students



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

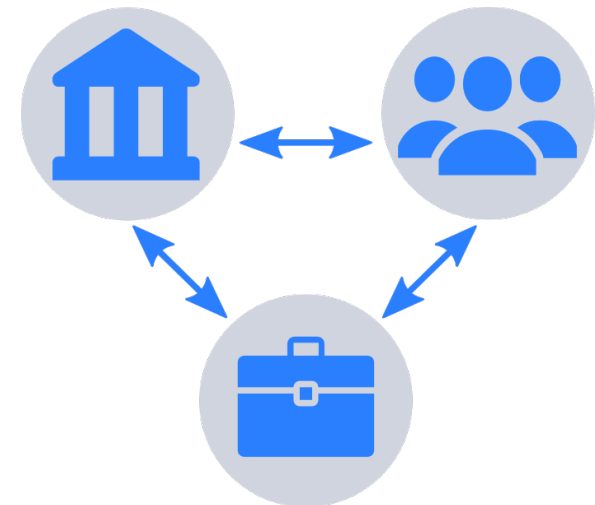
- Open spatial data
  1. Complete
  2. Primary
  3. Non-discriminatory
  4. Machine processable
  5. ...

Based on 8 principles of Open Government Data Sebastopol meeting

- Open Infrastructure development
  - Governance
  - Data
  - Accessibility

- Open government
  - Transparency
  - Collaboration
  - Participation

- Open spatial ecosystem

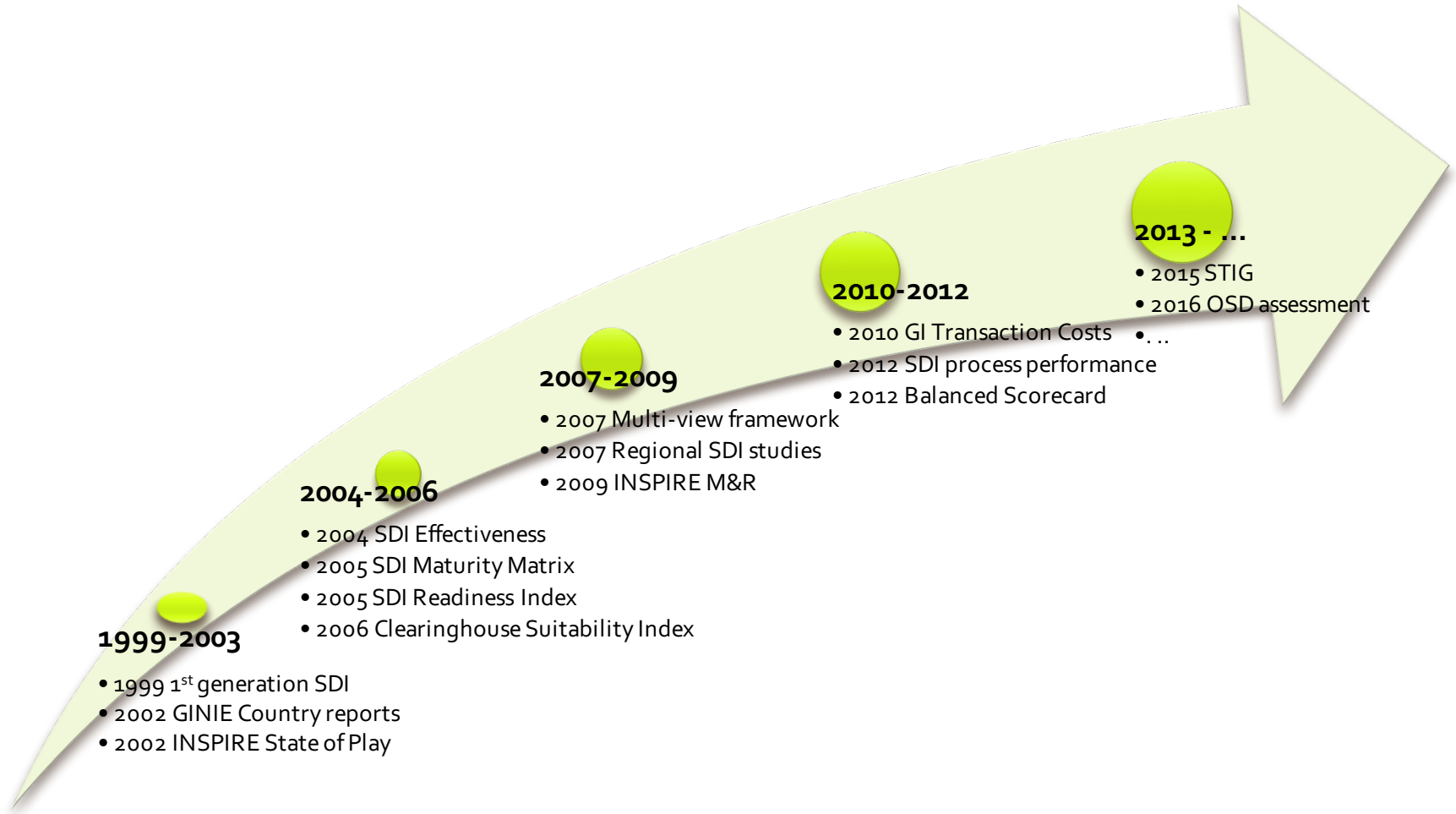


An SDI where governmental and non-governmental actors commonly govern, and freely share open data.

# 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

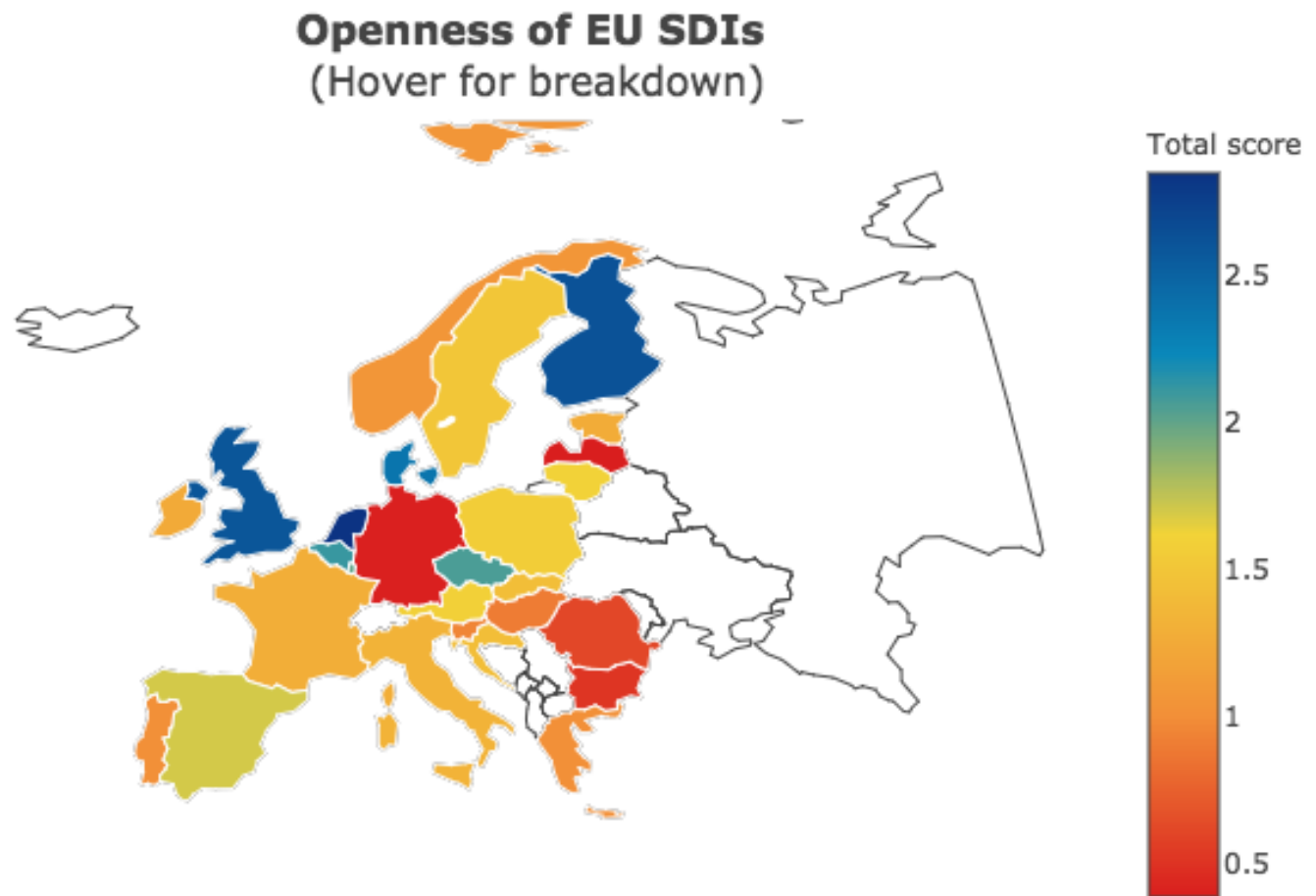
- Indicators
  - 2.1. search engine score
  - 2.2. available through geoportal and/or open data portal
  - 2.3. language(s)
  - 2.4. publicly available
  - 2.5. discovery, view and download services
  - 2.6. available for free
  - 2.7. use restrictions
  - 2.8. interoperability
  - 2.9. use statistics

# 3. Impact

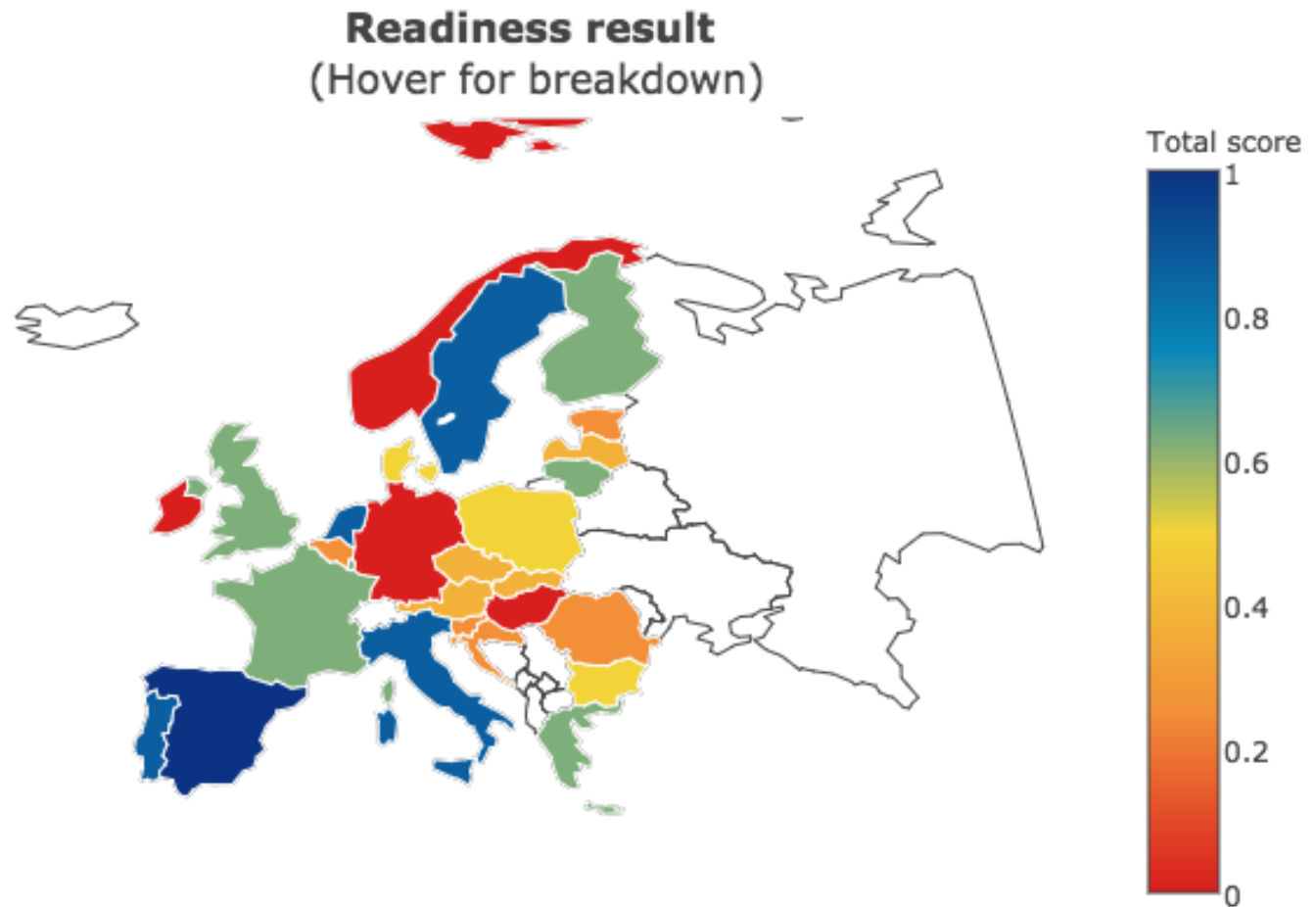
- Use of spatial data by non-government actors and associated benefits
- Indicators
  - 3.1. use cases of non-government actors using open spatial data
  - 3.2. studies showing the benefits of open spatial data

# Results

# Map of Open SDI

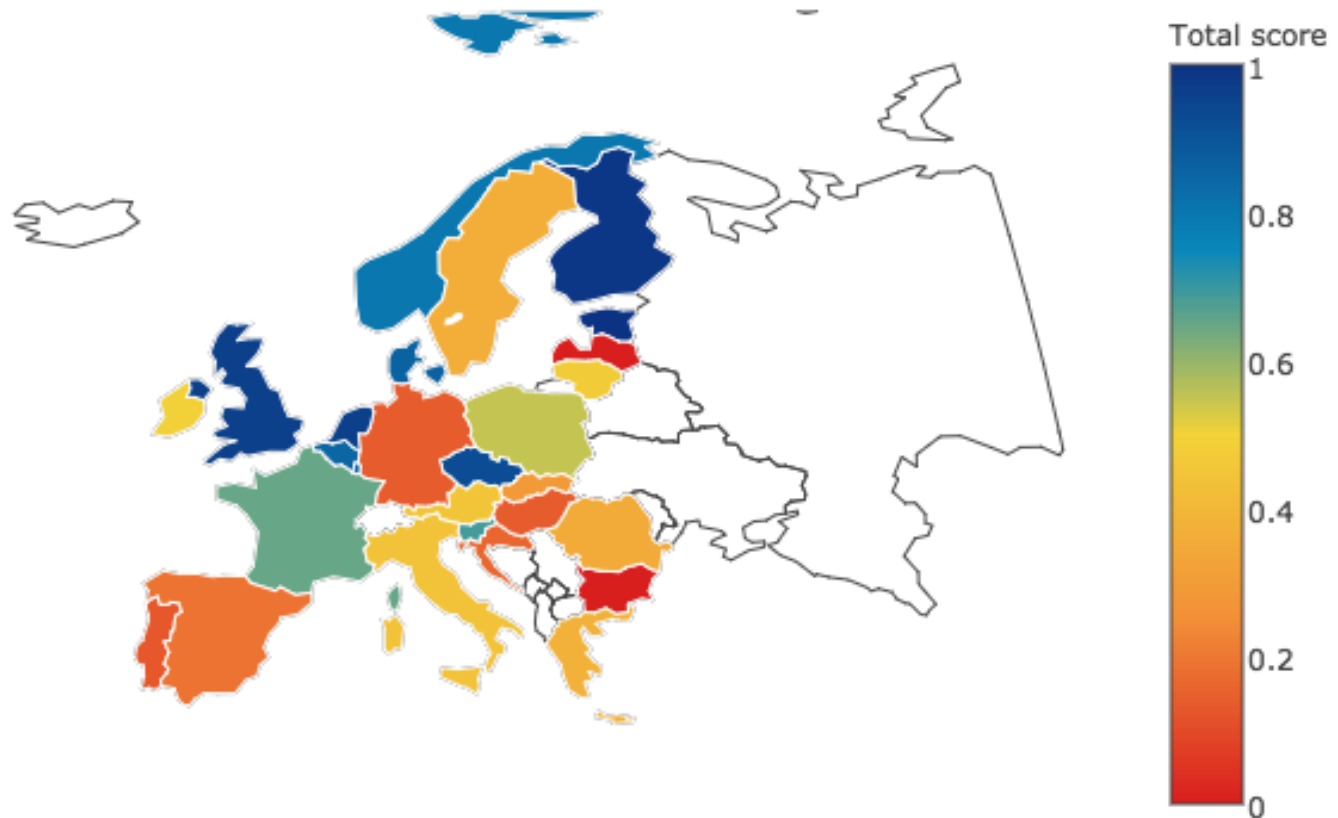


# Map of Open SDI - Readiness



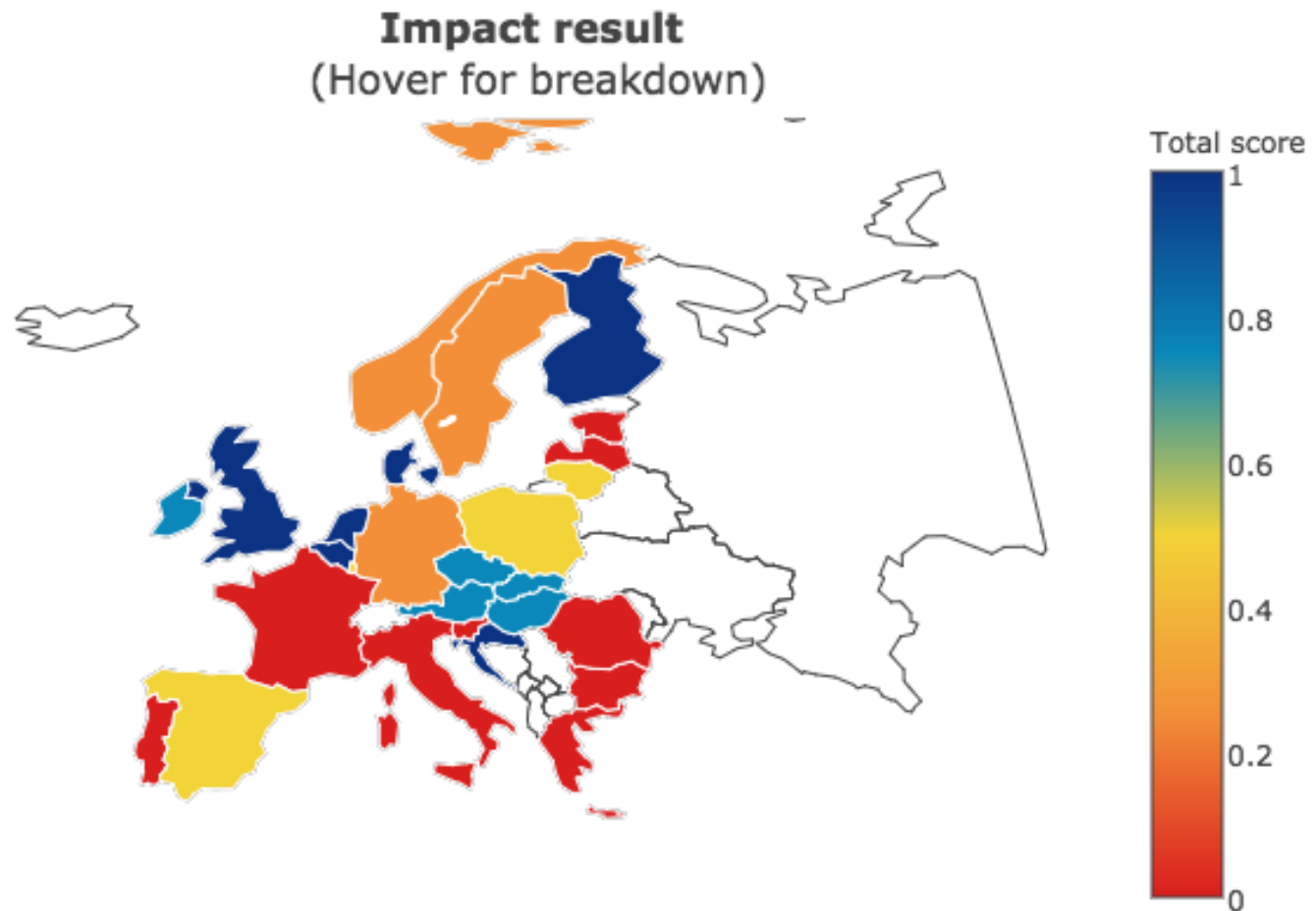
# Map of Open SDI - Data

**Implementation result**  
(Hover for breakdown)

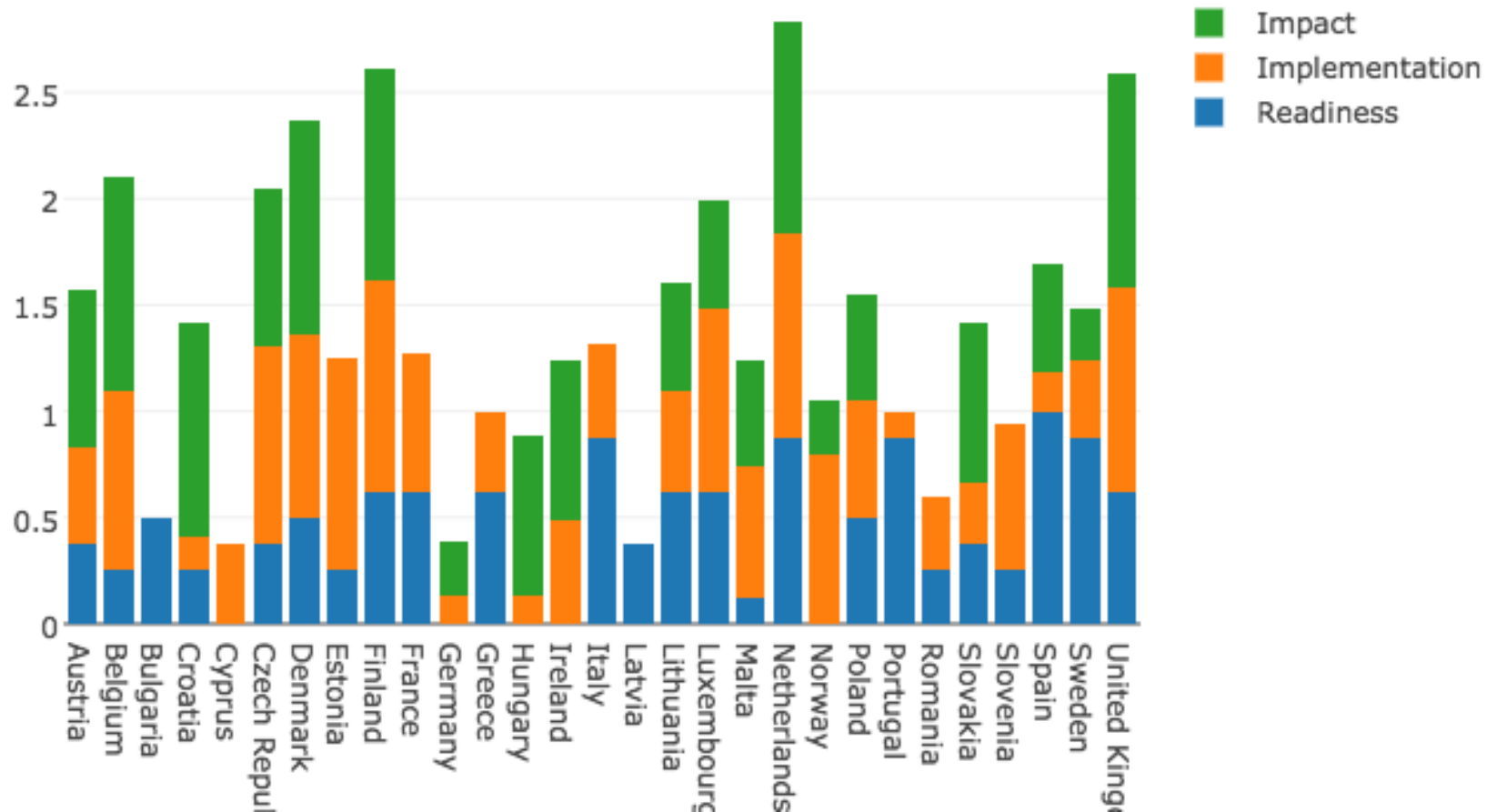




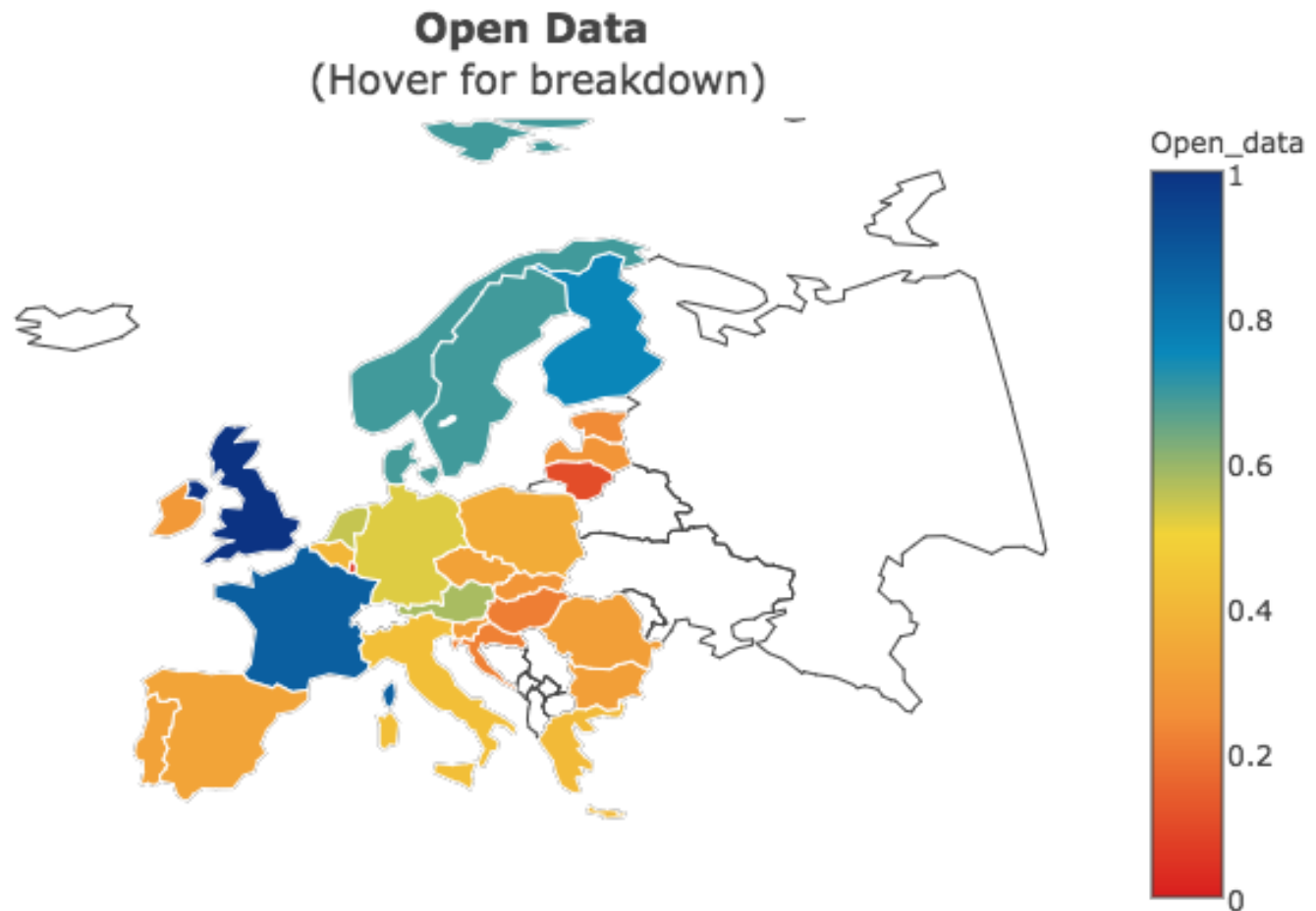
# Map of Open SDI - Impact



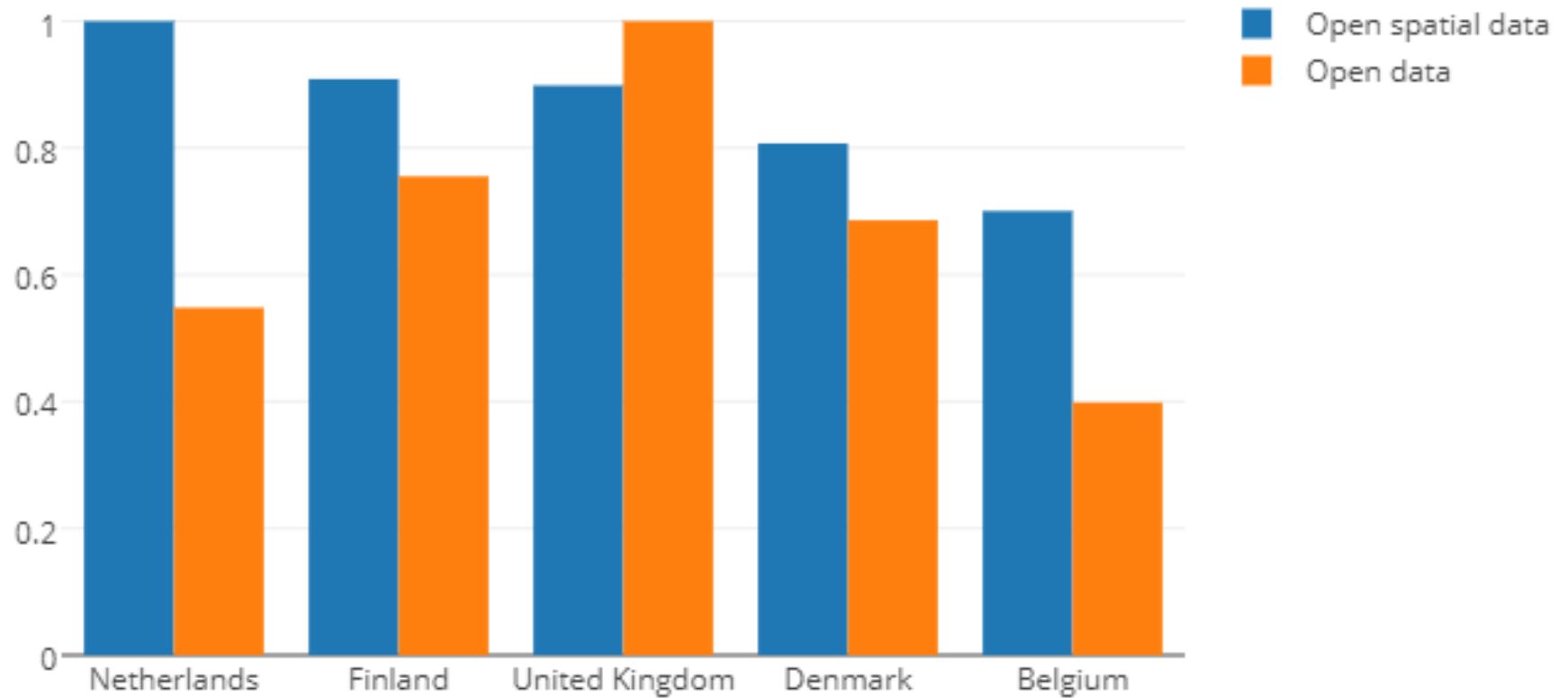
# Map of Open SDI - overview



# 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>