Towards a Map of Open SDI/INSPIRE

INSPIRE Conference 2017 – Workshop 4 September 2017, Kehl (Germany)





Workshop programme

Part 1:

Different views on Open SDI/INSPIRE

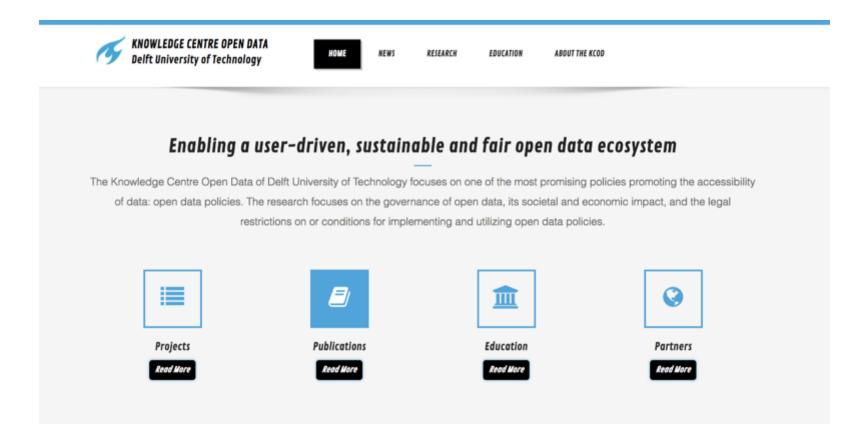
Part 2:

Your view on Open SDI/INSPIRE: discussions





About us



More information: http://kcopendata.eu/





Part 1 Different views on Open SDI





Topic of today

OPEN SDI





Learning objectives

- Understand the different components of the Open SDI/INSPIRE concept, i.e. multiple ways of making an SDI/INSPIRE more open
- Analyse the status of Open SDI/INSPIRE in your own country and in Europe in general
- 3. Consider examples of best practices of Open SDI/INSPIRE
- 4. Identify the main challenges in making NSDIs and INSPIRE more open





Things to think about during this workshop

- 1. Open, HOW? *In which sense?*
- 2. Open, TO WHOM? *Citizens, businesses, academics, other actors?*
- 3. Open, WHY? Who benefits?





Open SDI = a new generation of SDIs?

1st generation SDI: producer driven

2nd generation SDI: user driven

3rd generation SDI: produser driven

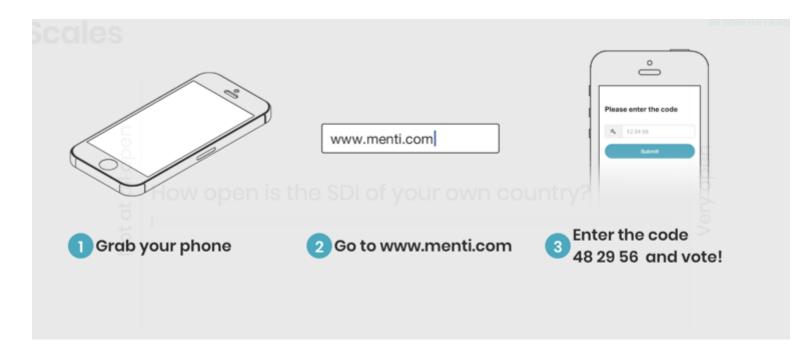
4th generation: open SDI?





And the most open SDI is...

What do you think?



https://www.mentimeter.com





= open spatial (government) data?

Government data shall be considered open if it is made public in a way that complies with the principles below:

1. Complete

All public data is made available. Public data is data that is not subject to valid privacy, security or privilege limitations.

2. Primary

Data is as collected at the source, with the highest possible level of granularity, not in aggregate or modified forms.

3. Timely

Data is made available as quickly as necessary to preserve the value of the data.

4. Accessible

Data is available to the widest range of users for the widest range of purposes.

5. Machine processable

Data is reasonably structured to allow automated processing.

6. Non-discriminatory

Data is available to anyone, with no requirement of registration.

7. Non-proprietary

Data is available in a format over which no entity has exclusive control.

License-free

Data is not subject to any copyright, patent, trademark or trade secret regulation. Reasonable privacy, security and privilege restrictions may be allowed.

Compliance must be reviewable.





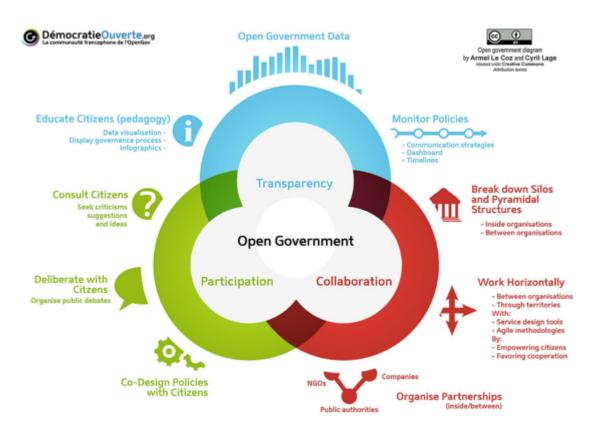
= building the infrastructure in an open manner?

Open implementation + Open governance





= open -spatially-enabled - government?

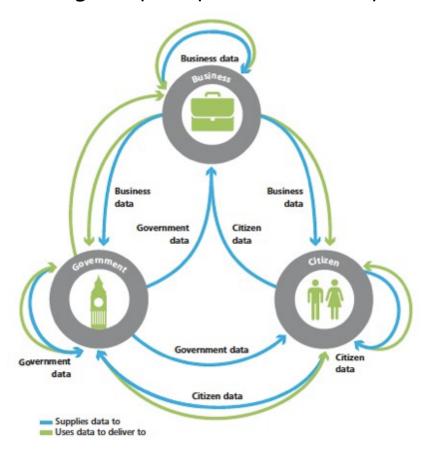


Source: Le Coz & Lage





= creating an open spatial data ecosystem?

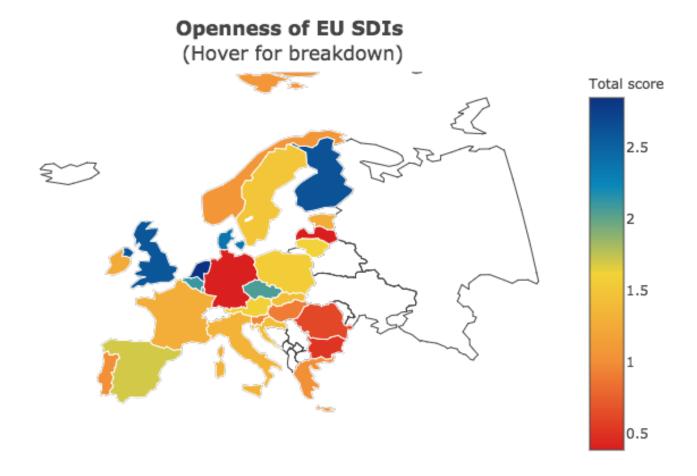


Source: Deloitte, 2012





And the most open SDI is...







Programme of today

Part 1: Introduction and experts' views:

- A Finnish perspective Jaana Mäkelä (Spatineo)
- An SME perspective Giacomo Martirano (SmeSpire/Epsilon Italia)
- A technological perspective Francisco J. Lopez-Pellicer (Universidad Zaragoza)
- Intermezzo: let's test!
- Our Map of Open SDI/INSPIRE

Break

Part 2: Your view on Open SDI/INSPIRE

- Discussion in smaller groups
- What do you think about Open SDI?





Experts' presentations





Intermezzo – let's test

Let's search and try to get access to European national address data

- Italy
- Germany
- Norway
- Romania

As a user

- Can you find the data?
- Can you get access to them?
- Can you use them (for all purposes)?





Intermezzo – let's test

Results?

Experiences?

Recommendations?





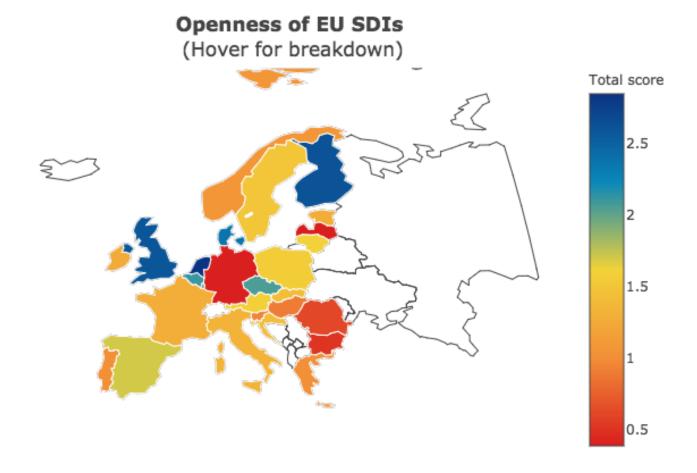
Map of Open SDI/INSPIRE

Approach, first results and findings





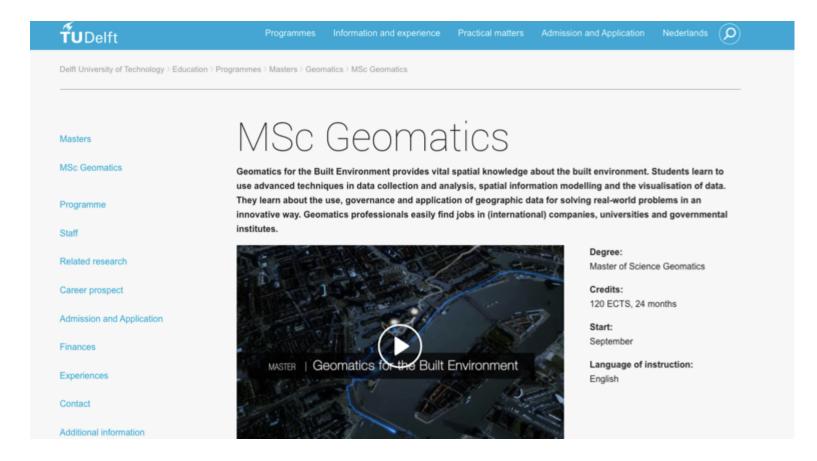
(Previously) And the most open SDI is...







Context



https://www.tudelft.nl/en/education/programmes/masters/geomatics/msc-geomatics/





Core foundation courses

The core foundation courses provide a strong foundation to all students by teaching the fundamentals of data gathering, processing, analysing and visualisation. The core foundation courses are focussed around six fundamental themes: Location Awareness, Sensing Technologies, Geo datasets & Database Management Systems, Geoweb & Legal Aspects, GIS & Cartography and 3D Modelling & Disaster Management. The core courses are building up from fundamentals and basic skills to application and integration.

- + Python Programming
- + Sensing Technologies
- + GIS and Cartography
- + Positioning and Location Awareness
- + Spatial Decision Support for Planning and Crisis Management
- + Geo Database Management Systems
- + 3D Modelling of the Built Environment
- + Geo-datasets and Quality
- + Geo-information Organisation and Legislation
- + Geo Web, Sensor Networks and 3D-GeoVisualisation Technology





This year's assignment

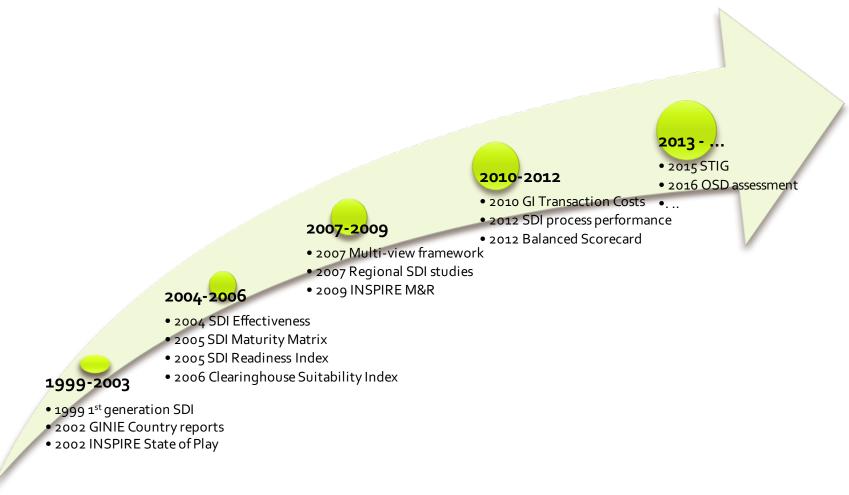
Write a paper on the status of the open SDI in a European country

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





History of SDI assessment







History of open data assessment









2013 - ...

2010-2012

Open Data Impact Map

OpenDataMonitor 🎇

PSI Scoreboard





2007-2009

2004-2006

1999-2003

Common open data assessment framework

- Initiative to explore the development of common methods and frameworks for the study of open data
- Identification of common categories and indicators in open data assessments within an overarching framework.
- Four main categories:
 - Context/readiness
 - 2. Data/implementation
 - 3. Use
 - 4. Impact





Spatial data assessment framework

1.	2.	3.	4.
Readiness	Implementation	Use	Impact
Technological and non-technological components	Availability and accessibility of spatial data and services	Use of spatial data and services	Socio-economic benefits of using spatial data and services





Open spatial data assessment framework

1. Readiness	2. Implementation	3. Use	4. Impact
Technological and non-technological components	Availability and accessibility of spatial data and services	Use 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	By businesses, citizens, non- profit organizations and other actors	For businesses, citizens, non- profit organizations and other actors





1. Readiness

 Establishment of components to enable the participation of non-government actors in developing and 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. Implementation

- Availability and accessibility of spatial data to non-government actors
- Focus on two datasets:
 - topographic data 1:10000
 - address data
- Assessment from a user's perspective: "Can I find, access and use the data?"





2. Implementation

- 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





3. Impact

- Combination of Use + Impact/Benefits
- 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

Go to http://kcopendata.eu/opensdi/

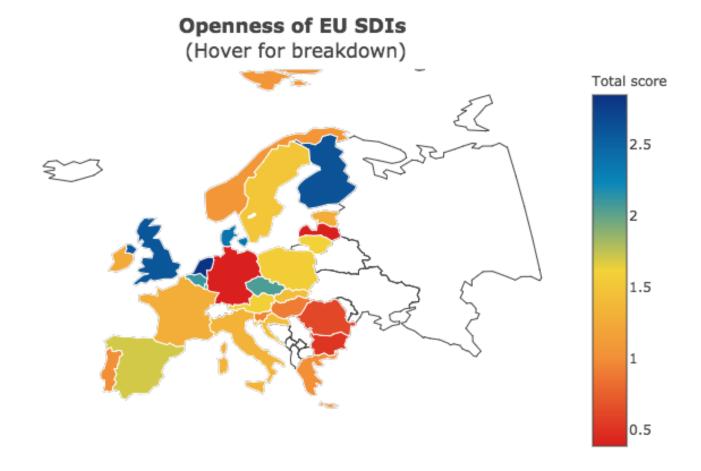
• Disclaimer: work in progress!







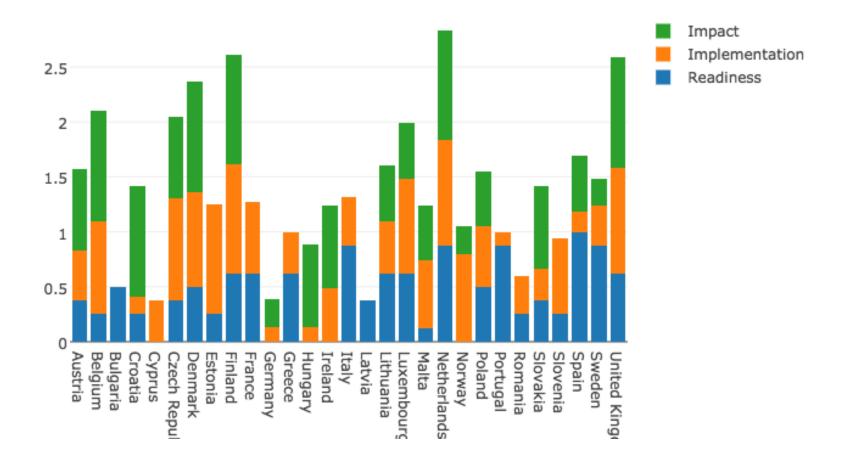
Map of Open SDI







Map of Open SDI - overview

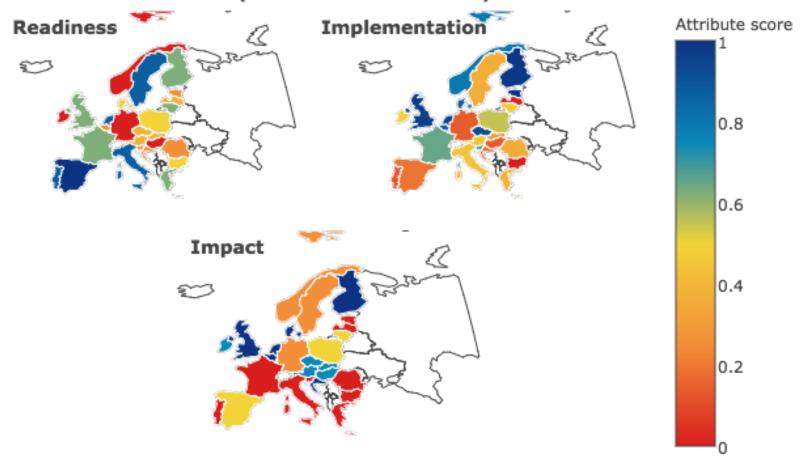






Openness of EU SDIs

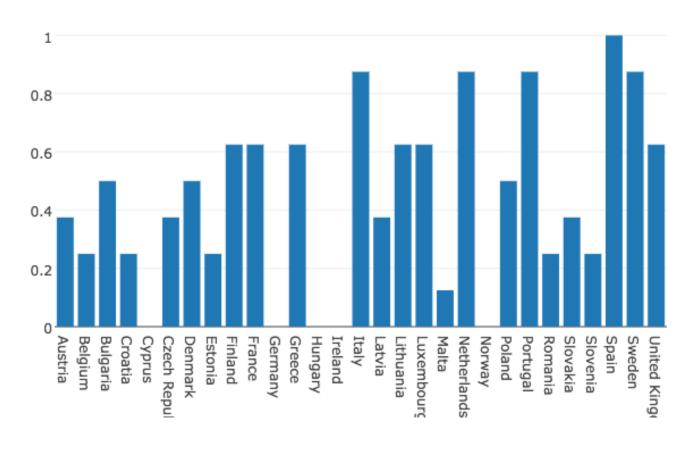
(Hover for breakdown)







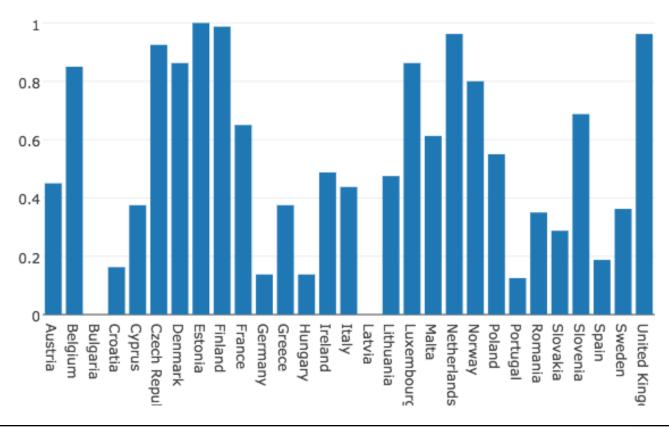
Map of Open SDI - Readiness







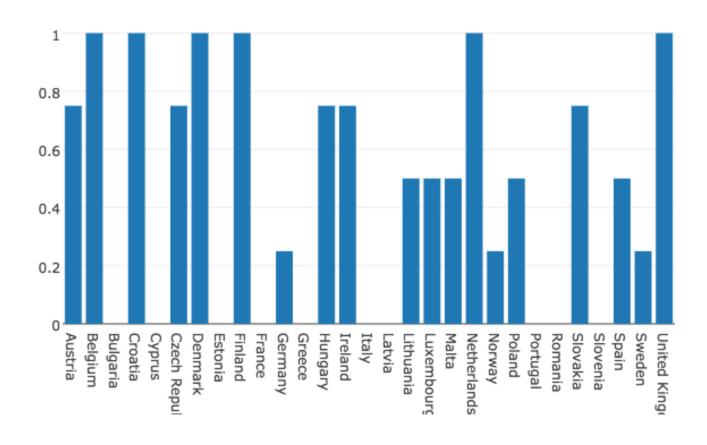
Map of Open SDI - Implementation







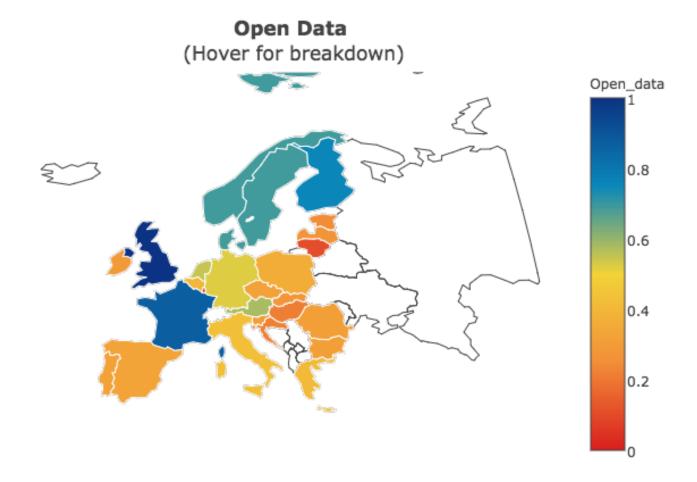
Map of Open SDI - Impact







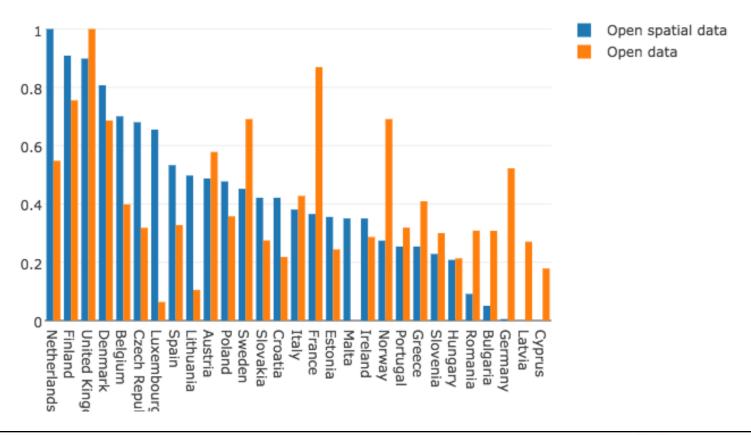
Open data







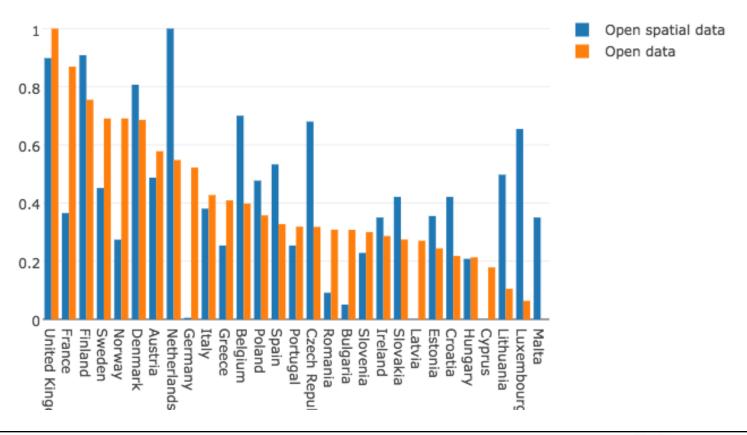
Comparing Open SDI & Open Data







Comparing Open Data & Open SDI









Comments? Questions? Interested to contribute?

Let us know! g.vancauwenberghe@tudelft.nl

Visit our website http://kcopendata.eu/openSDI





After the break

What do you think about Open SDI/INSPIRE?

Let's discuss (in smaller groups)





Part 2 Map of Open SDI/INSPIRE Discussions





Open SDI - Discussion

- 4 groups 4 moderators 4 topics
- 1 moderator for each topic
- moderator will switch between tables/groups
- 15' discussion on each topic





Topics for the discussion

- Open SDI General (Glenn)
- Open SDI Readiness (Bastiaan)
- Open SDI Implementation (Kotryna)
- Open SDI Impact (Frederika)





Questions for the discussion

- 1. HOW TO MEASURE/ANALYZE? What are most important aspects? What are key indicators? What is less relevant?
- 2. HOW TO COLLECT THE DATA/INFORMATION NEEDED? What is necessary, what is feasible? Which data/information from other assessments can be reused?
- 3. WHAT COULD OR SHOULD BE NEXT STEPS? How to ensure practical use of results? How to further improve the data and results?





Wrap up and next steps







Comments? Questions? Interested to contribute?

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