Map of Open SDI/INSPIRE

Approach, first results and findings
(Previously) And the most open SDI is...
MSc Geomatics

Geomatics for the Built Environment provides vital spatial knowledge about the built environment. Students learn to use advanced techniques in data collection and analysis, spatial information modelling and the visualisation of data. They learn about the use, governance and application of geographic data for solving real-world problems in an innovative way. Geomatics professionals easily find jobs in (international) companies, universities and governmental institutes.

Degree:
Master of Science Geomatics

Credits:
120 ECTS, 24 months

Start:
September

Language of instruction:
English

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
3. develop an implementation plan to arrive at a next level of an open SDI
History of SDI assessment

1999-2003
• 1999 1st generation SDI
• 2002 GINIE Country reports
• 2002 INSPIRE State of Play

2004-2006
• 2004 SDI Effectiveness
• 2005 SDI Maturity Matrix
• 2005 SDI Readiness Index
• 2006 Clearinghouse Suitability Index

2007-2009
• 2007 Multi-view framework
• 2007 Regional SDI studies
• 2009 INSPIRE M&R

2010-2012
• 2010 GI Transaction Costs
• 2012 SDI process performance
• 2012 Balanced Scorecard

2013 - ...  
• 2015 STIG
• 2016 OSD assessment

...
History of open data assessment

- 1999-2003
- 2004-2006
- 2007-2009
- 2010-2012
- 2013 - ...

Brands and logos include:
- OpenData Barometer
- Global Open Data Index
- Open Data 500 GovLab
- Open Data Impact Map
- OpenDataMonitor
- PSI Scoreboard
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:
  1. Context/readiness
  2. Data/implementation
  3. Use
  4. Impact
## Spatial data assessment framework

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<thead>
<tr>
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<tr>
<td>Technological and non-technological components</td>
<td>Availability and accessibility of spatial data and services</td>
<td>Use of spatial data and services</td>
<td>Socio-economic benefits of using spatial data and services</td>
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### Open spatial data assessment framework

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<td>To involve non-government actors in developing and implementing the SDI</td>
<td>To businesses, citizens, non-profit organizations and other actors</td>
<td>By businesses, citizens, non-profit organizations and other actors</td>
<td>For businesses, citizens, non-profit organizations and other actors</td>
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</table>
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
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?

Let us know!

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