Short report on workshop 'Towards a Map of Open SDI/INSPIRE'
Workshop organizers: Delft University of Technology - Knowledge Centre Open Data

On September 4 2017, the Knowledge Centre Open Data organised the workshop 'Towards a Map of Open SDI/INSPIRE' at the INSPIRE 2017 Conference in Kehl (Germany) and Strasbourg (France). In this workshop, several experts presented their view and experiences on Open SDI and a first prototype of the 'Map of Open SDI in Europe' was shown. The 'Map of Open SDI in Europe', a project of the Knowledge Centre Open Data of Delft University of Technology, is developed to provide SDI decision makers, practitioners and researchers with a more comprehensive understanding of the openness of spatial data infrastructures in Europe.

At the start of the workshop, attendees were asked to provide their view on and definition of the concept Open SDI. The figure (in annex 1) gives an overview of all definitions provided by the participants (via an online tool). These definitions can be divided into three categories, which also form the starting point for our assessment framework for assessing the openness of European NSDIs:
- **Readiness:** technological and non-technological components allowing also non-government actors to participate in and contribute to the governance and implementation of INSPIRE (in a collaborative manner)
- **Data/implementation:** the availability and accessibility of spatial data (and services) to all types of users, including businesses, citizens, research, non-profit organizations, etc.
- **Impact:** the use of spatial data (and services) by non-government users and the benefits realized through this use

Afterwards, three experts provide a presentation on their view on Open SDI:
- A Finnish perspective – Jaana Mäkelä (Spatineo) on the status of openness of the SDI in Finland
- An SME perspective – Giacomo Martirano (SmeSpire/Epsilon Italia) on to what extent SDI/INSPIRE is and should be open to businesses, including SMEs
- A technological perspective – Francisco J. Lopez-Pellicer (Universidad Zaragoza) on how virtual hub could contribute to improving the openness of spatial data and services

After a short exercise in which participants had to find, assess the usability and get access to four national address datasets (Italy, Germany, Norway & Romania), the results were presented of our first assessment of the openness of national SDIs in Europe. The data and information used in this assessment were collected by MSc Geomatics students from TUDelft. The results show the differences between the SDIs of different countries with regard to their openness (in terms of readiness, implementation and impact). The figures in Annex 2 clearly show these differences.

In the second part of the workshops, several discussion rounds were organised to allow participants to share their view on the Open SDI concept and the way it is assessed in the 'Map of Open SDI' initiative. Some of the suggestions provided to improve our assessment of the openness of SDIs are:
- Think about how to integrate the relevant data and results of other existing assessment and monitoring initiatives, such as the Global Open Data Index, Open Data Barometer, INSPIRE Monitoring and Reporting, SmeSpire, Spatineo tools, etc.
- With regard to readiness, non-government actors (and users) should be considered as relevant and important stakeholders, and should be involved in various manners, at operational (feedback mechanisms) and strategic level (definition of priority data sets, public consultation, appropriate platforms/governance structures, etc.) in order to improve the accessibility and usability of spatial data
- Think about the weight of different dimensions (e.g. data availability and accessibility is most important) but also about the relationships between dimensions and the need to provide best practices with regard to different aspects/indicators included in the assessment

The prototype version of the map is available at: http://kcopendata.eu/opensdi/

All workshop' presentation can be found at: http://kcopendata.eu/2017/09/05/open-sdiinspire-workshops-presentations-and-results

Annex 1: Participants' view on Open SDI

SDI open to everybody to use and share data, to upload and download dat

Open in terms of full data accessibility by users

An SDI, where users, government, academia and business have equal roles.

I thinnk itmust be usefull

Good morning! fulfills all organizational and technical standards, free and easy access to the infrastructure, no charges for data

i think it must be useful for sharing and uploading data easily and also easy available and useable

Easily accessible

Easy available and useable

open data and user contribution

An SDI that users are not able to distinguish from mainstream open data initiatives

No fees No User Registration Grouped Services Well tested Services

SDI allowing access to open data by means of open standards.

Easy to find good quality and reliable data that is easy to use. Collaboration between data producers and users. Transparency.

Beneficial to all actors

Data accessible to everyone

open source platform

Collaboration between actors

with clear conditions for accessing data and services

Annex 2 - Openness of National SDI's in Europe