INSPIRE in the Netherlands

Jandirk Bulens,
Michel Grothe, Geonovum

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Agenda

1. INSPIRE organisation and responsibilities
2. The Dutch approach
3. INSPIRE data providers
4. INSPIRE data infra nodes
5. National georegistry & INSPIRE data guide
6. INSPIRE data licensing framework & open data in NL
7. Best practises!
8. Conclusions & challenges
One INSPIRE Law of **July 2nd 2009** to implement **Directive nr. 2007/2/EG** of the European Parliament and Council of March 14th 2007 to create an infrastructure for spatial information in the Union (**INSPIRE**).
1. INSPIRE organisation and responsibilities

The Minister of Infrastructure and Environment is overall responsible.
1. INSPIRE organisation and responsibilities

INSPIRE organisation in the Netherlands

Minister of Infrastructure and the Environment

GI-Council

Steering Committee
Chair: ministerie van IenM
Members Chair advisory committee: RWS, TNO, Kadaster, chair Executive committee

Advisory Committee
Chair: IPO
Data providers, Users, GeoBusiness Nederland

Executive Committee
Programme management
Communication
Knowledge & generic facilities
Implementation support
Use of INSPIRE
Working groups
Ad hoc, depending on actual topics and issues

MIG-P
MIG-T
1. INSPIRE organisation and responsibilities

Coördination, stimulation and support by GEONOVUM
2. INSPIRE organisation and responsibilities

Coordination and supporting activities Executive committee

1. Creating awareness, capacity building, communication: NL (and cross border) events, bustour, presentations, etc..
2. Helpdesk INSPIRE and technical meetings and ‘support sessions’.
3. Monitoring and reporting about INSPIRE to the EU.
4. Developing validators for metadata and services and monitoring of metadata quality (national georegistry).
5. Stimulating INSPIRE use.
6. Involvement in EU Maintenance and Implementation Group (MIG).
7. Executing specific projects e.g. Sensor Observation data (and SOS) for Airquality e-reporting and Table Joining Services for statistics themes (E.L.F).
2. The Dutch approach

In 2009 the Dutch House of Representatives accepted the Dutch INSPIRE law on the condition that the execution of the law should be as efficient and lean as possible.
2. The Dutch approach

Because of this we adopted:

• a planned, coordinated and joined approach, in which the Ministry pointed out 22 Data providers who are responsible to deliver the data;

• as much as possible we are using keyregisters and national data facilities that are based on national Legal Acts like our Risk Map.
3. INSPIRE data providers

INSPIRE data providers (organisations) in the Netherlands

**National government**
1. Ministry of Infrastructure & the Environment
2. Dept. of Infrastructure, Watermanagement & Public Works
3. Cadastre, Land Registry and Mapping Agency
4. Royal Netherlands Meteorological Institute
5. Ministry of Economic Affairs
6. Statistics Netherlands
7. Geological Survey
8. National Institute for Public Health & Environment
9. Cultural Heritage Agency
10. RDW- Agency for mobility & traffic safety
11. Chamber of Commerce

**Regional government**
Provinces (12)
Water boards (24)

**Local government**
Municipalities (393)
Key registries as national data facilities

SDI developments in the Netherlands are strongly related to the key registries of e-government policy (interrelated system).

Spatial key registries based on Legal Acts for:
- Cadastre
- Topography
- Large scale Topography
- Addresses and Buildings
- Soil and Geology
- Chamber of commerce
- Real estate value

Non-spatial registries, like population, car license plates, income.
3. INSPIRE data providers

Examples of other national data registries

Legal Act for Spatial Plans (since 2010)

Legal Act for Cables and Pipelines – WION (since 2008)
4. INSPIRE data infra nodes

INSPIRE nodes (data facilities) in the Netherlands
4. INSPIRE data infra nodes

INSPIRE Use

Total no. of INSPIRE service requests

Total no. of INSPIRE services in NL
INSPIRE access point in the Netherlands

- Dutch INSPIRE law: one INSPIRE access point
- is also the Netherlands INSPIRE discovery service
- is connected to the EU geoportal

7800 datasets with 2768x WMS and 2300x WFS and 77x atom
And 350 services descriptions

More then 169 datasets
More then 385 services
5. National georegistry & INSPIRE data guide

Overview INSPIRE datasets for other then geo-professionals

The INSPIRE dataguide (NL language)

INSPIRE best practises & showcases

Voorbeelden

Afstand als criterium in een grensregio?

Afstand wordt met enige regelmaat als beleids criterium gehanteerd. Zo hanteren gemeenten een afstandscriterium voor coffeeshops ten opzichte van scholen. In Nederland is het vergelijken van deze gegevens niet heel eenvoudig. Nog moeilijker is dit voor grensgemeenten. INSPIRE kan hierbij helpen.

http://www.geonovum.nl/wegwijzer/inspiratie/afstand-als-criterium-een-grensregio
INSPIRE data licensing framework and open data in NL

“Geoshared licensing”

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<th>Description</th>
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<td>Work can be used and reused if name of copyright holder and/or the date of the creation of the Work is mentioned on the Work.</td>
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<td>Additional conditions. Other restrictions than the above apply.</td>
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</table>
2. Open data developments in the Netherlands

What is open data? The Dutch perspective...

Open public data are data that:

1. are paid for from the **public purse** and generated during or for the provision of a public service
2. are available to the **public**
3. are **free of copyright** and other third-party rights
4. are **machine-readable** and preferably comply with open standards (not PDF but XML, CSV, etc.)
5. can be re-used **without restriction** in the form of cost, compulsory registration, etc.

Source:
http://www.courtofaudit.nl/english/Publications/Audits/Introductions/2014/03/Open_Data_Trend_Report
Dutch policy: all data must be open, unless...

- The main thrust of two documents is that the government endorses the principle of 'publication unless':
  - Strategic Vision on Open Data
  - Open Data Action Plan
  (27 September 2013)

- Unless means ... unless there are legal grounds for not doing so: Dutch legislation (Government Information (Public Access) Act) and European Legislation (Re-use Directive, INSPIRE and the Aarhus Treaty).

- Within the Dutch government, the Ministries of the Interior and Kingdom Relations (BZK) and Economic Affairs (EZ) are responsible for open data.
- Interior and Kingdom Relations is quarding transparency and open government and Economic Affairs’ perspective on open data is economic value creation.

Responsibilities for open geodata

The Ministry of Infrastructure and the Environment is responsible for geo-information. This ministry provides already much open data, e.g. Actual Height Model and all Topographic maps. In 2015 it is expected that almost all the (geo)data of the ministry is open data.
2. Open data developments in the Netherlands

The Dutch open data portal

Data.overheid.nl: het opendataportaal van de Nederlandse overheid

Zoekresultaten

De volgende datasets in het open datasetregister zijn gevonden:

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<tr>
<th>Dataset</th>
<th>Licentie</th>
<th>Tags</th>
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<tr>
<td>Actueel Hoogtebestand Nederland 1 (AHN1) WCS</td>
<td>Beheer PDOK</td>
<td>aahn, hoogte, hoogtegegevens, laseraltimetrie, lidar, maatvlak, puntenwolk, raster</td>
</tr>
<tr>
<td>WKPB WMS</td>
<td>Publiek domein (CC0)</td>
<td>ahh, hoogtegegevens</td>
</tr>
<tr>
<td>Fysischgeografischregios WMS</td>
<td>Publiek domein</td>
<td>ahh, hoogtegegevens, lidar</td>
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</table>

Auteur

Beheer PDOK

Licentie

Publiek domein (CC0) (43)
Publiek Domein (36)

Tags

informatieaccessservice (33)
informatieaccessservice (22)
hoogte (12)
natuur (12)
aahn (10)
hoogtegegevens (10)
lidar (10)

Betreft grondgebied

Nederland (79)
The Dutch open data portal harvests from the National Georegistry

3201 datasets, of which 2828 from NGR (88%)

9-2-2015
Open data and INSPIRE

In principle ALL INSPIRE data(sets) are open data, except those few data(sets) with restrictions, esp. payment conditions.

Non-open INSPIRE data
• Cadastral map (except boundaries)
• Key Registry Buildings and Adresses (large downloads)
• Cables and pipelines
INSPIRE as a chance: Dutch Provinces join forces

**CDS-INSPIRE** is the Central Data and Services environment of the joint Dutch provinces.

This central environment has been developed in good collaboration between the Dutch provinces, IDgis BV from the Netherlands and German lat/lon (deegree3).

The source code can be downloaded [here](#) and is available under [GNU GPL license](#).
Harmonisation of Protected Areas in Annex I

Where they came from and where they are now:
7. Best Practises

Information Model of Cables and Pipes

IMKL uitwissel interface

IMKL2015

Data producten

Inspire

WIION

SWater

BevB

EC61

(BRON) DATA
“INSPIRE-datasets are ideal for us. They meet vital search-ability and availability requirements. And they contain lots of information. We started by using datasets which were closely related to mobility issues, such as the transport restrictions of the RDW and the CO2-information provided by the National Institute for Public Health and the Environment, which is, however, still being developed. INSPIRE contains very large datasets that, until recently, were only used by government authorities. It’s great that they are available for everyone now.”
7. Best Practises

Innovation through living labs

Platformlinkeddata.nl
7. Best practise we are working on

The new Dutch Environmental Planning Act - 2018

A bill which aims to renew the regulation of human activities with an effect on the physical environment.
8. Challenges and Conclusions

Challenges

1. Transformation of our data to INSPIRE data models in the next years.

2. Find users and develop smart apps using the INSPIRE infrastructure.

3. Broaden the INSPIRE perspective; the new Dutch Environmental Planning Act – 2018 includes digital data exchange that goes beyond INSPIRE.

4. Expose INSPIRE data also with the standards of the web, esp. REST API’s and linked data standards.

5. But also Keep the INSPIRE spirit alive!
6. The challenge to spare the 393 Municipalities already heavily burdened by obligations of data delivery
8. Challenges and Conclusions

Some conclusions

1. The INSPIRE Directive is driving force behind our national SDI and the national georegistry.

2. INSPIRE has strengthened the cooperation between individual organisations and sme’s.

3. The INSPIRE method is used in other developments.

4. From a policy perspective open (geo)data is a fact.
Questions?

Thank you for your attention!