

Ministerie van Infrastructuur en Milieu



INSPIRE in the Netherlands

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19 November 2015



INSPIRE in the Netherlands

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**)





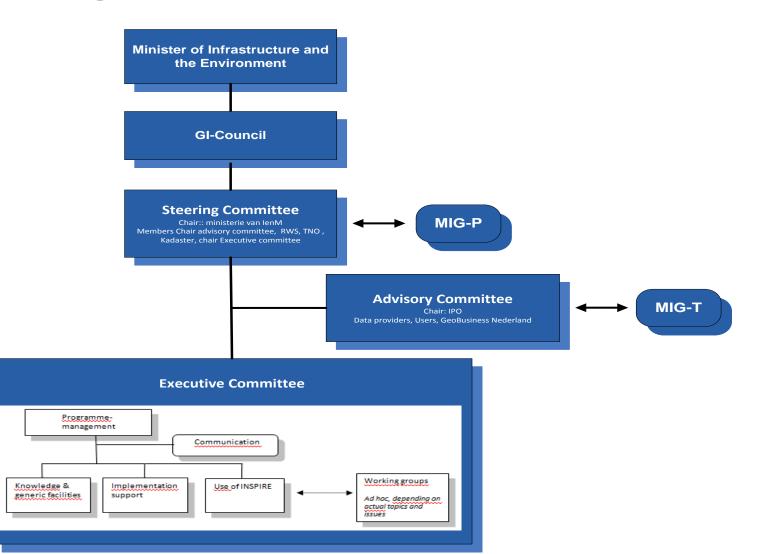




The Minister of Infrastructure and Environment is overall responsible

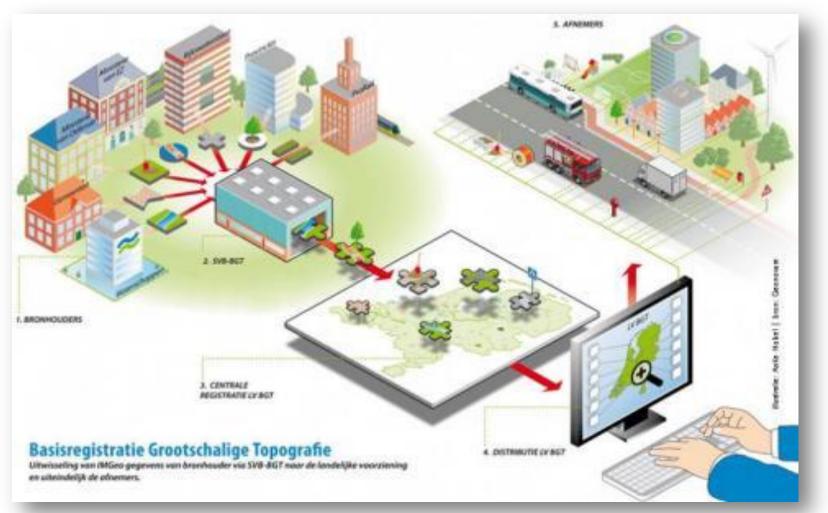


INSPIRE organisation in the Netherlands





Coördination, stimulation and support by **GEONOVUM**





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).
- Executing specific projects e.g. Sensor Observation data (and SOS) for Airquality e-reporting and Table Joining Services for statistics themes (E.L.F).



Government of the Netherlands

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 Dataproviders** 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
- 12.Ministry of Defense Hydrographic Service
- 13. Ministry of Defense Land Registry

Regional government

Provinces (12) Water boards(24)

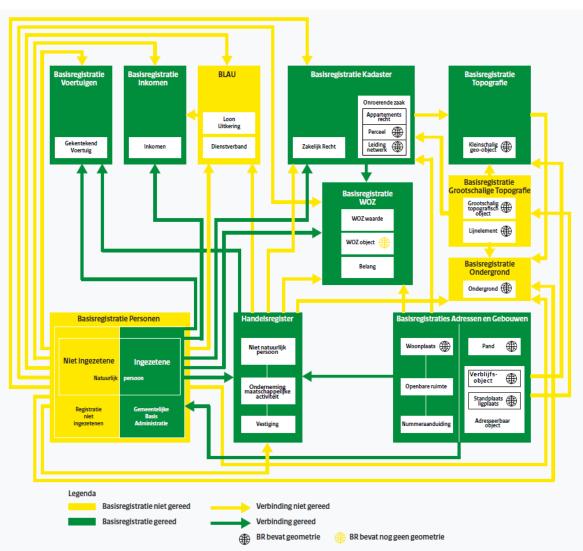
Local government

Municipalities (393)



3. INSPIRE data providers

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)

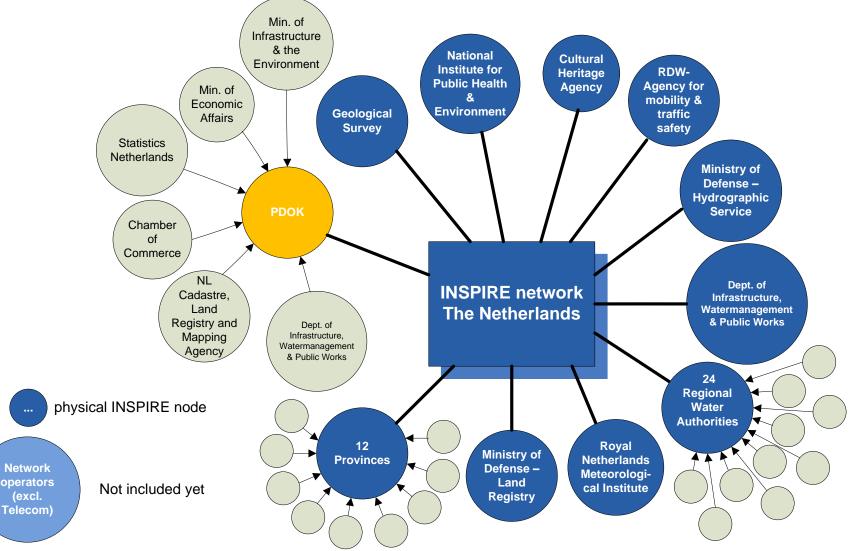






4. INSPIRE data infra nodes

INSPIRE nodes (data facilities) in the Netherlands

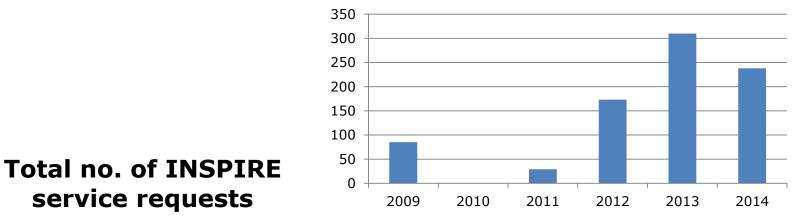


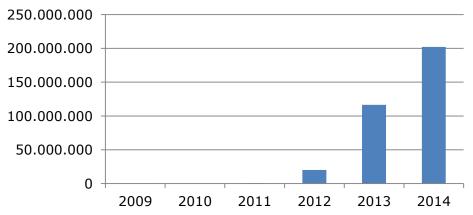


4. INSPIRE data infra nodes

INSPIRE Use





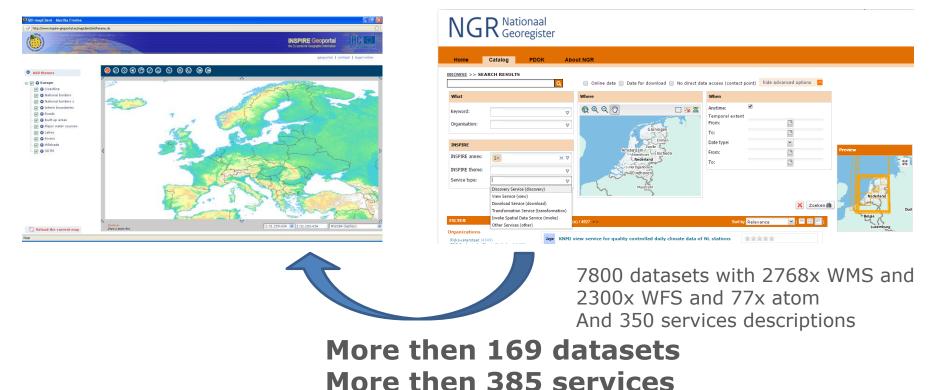




5. National georegistry & INSPIRE data guide

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





5. National georegistry & INSPIRE data guide

Overview INSPIRE datasets for other then geo-professionals

The INSPIRE dataguide (NL language)

🥘 INSPIRE Datagids	Home Datasets INSPIRE thema's Voorbeelden Over	INSPIRE
Uw wegwijzer naar datasets over de leefomgeving op basis van de Europese INSPIRE-richtlijnen	Zoeken op trefwoord	Zoeken

Voorbeelden

INSPIRE best practises & showcases

Onderwerpen

Bodem en ondergrond [26]
<u>Bouwen [10]</u>
Cultureel erfgoed [7]
Externe veiligheid [8]
<u>Geluid [11]</u>
Lucht [12]
Natuur [21]
Ruimte [49]

2

Afstand als criterium in een grensregio?

Afstand wordt met enige regelmaat als beleidscriterium 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-criteriumeen-grensregio



6. INSPIRE data licensing framework and open data in NL

INSPIRE data licensing framework

© creative commons





"Geoshared licensing"

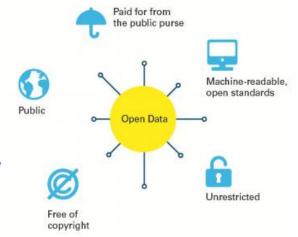
	Work is in the public domain
	Work can be used and reused if name of copyright holder and/or the date of the creation of the Work is mentioned on the Work.
©	Derivative works only if. The Work can only be part of a Derivative works if the Work is not selectable from the Derivative Work.
Ø	No redistribution of the Work is allowed.
	Time limitation. The license is valid for a limited period.
C	Fee is required. Use of the dataset requires a monetary payment.
	Purpose limitation. The Work can only be used for the purpose(s) specified in the license.
(Additional conditions. Other restrictions than the above apply.



What is open data? The dutch perspective ...

Open public data are data that:

- 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
- are machine-readable and preferably comply with open standards (not PDF but XML, CSV, etc.)
- 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.

Strategic Vision on Open Data, http://www.rijksoverheid.nl/documenten-enpublicaties/rapporten/2013/09/01/visie-open-overheid.html Open Government Action Plan, http://www.rijksoverheid.nl/documentenenpublicaties/rapporten/2013/09/01/actieplan-open-overheid.html



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.





Partners in Geo

Shared vision of government, private sector and scientific community on the future of the geo-information sector



Open data

Easy access to fundamental public information and other public location-based information is a necessary precondition for the best possible use or reuse of the data and models financed by the public sector. This vision confirms endorsement of this open data policy. When making data available, the most promising datasets will be given priority.

Besides making data available, government, private companies and the science community will actively promote the reuse of this location-based data. Innovation networks will be set up for a number of themes inspired by the National Satellite Data Portal. The government will create the right conditions, the market will anticipate the (latent) requests and science will play its guiding role.



The Dutch open data portal

update van de FGR-versie van 1997.

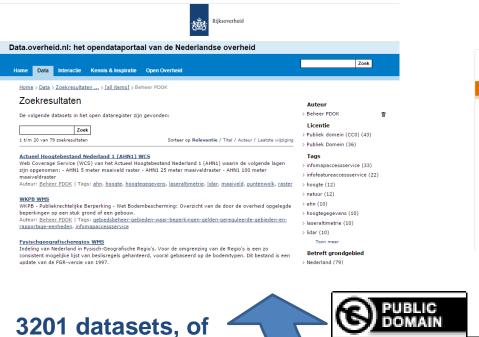
Rijksoverheid		
ata.overheid.nl: het opendataportaal van de Nederlandse overheid		
ome Data Interactie Kennis & Inspiratie Open Overheid	Zoek	
Home > Data > Zoekresultaten > [all items] > Beheer PDOK		
Zoekresultaten De volgende datasets in het open dataregister zijn gevonden:	Auteur > Beheer PDOK Licentie	Ē
Zoek 1 t/m 20 van 79 zoekresultaten Sorteer op Relevantie / Titel / Auteur / Laatste wijziging	> Publiek domein (CC0) (43) > Publiek Domein (36)	
Actueel Hoogtebestand Nederland 1 (AHN1) WCS Web Coverage Service (WCS) van het Actueel Hoogtebestand Nederland 1 (AHN1) waarin de volgende lagen zijn opgenomen: - AHN1 5 meter maaiveld raster - AHN1 25 meter maaiveldraster - AHN1 100 meter maaiveldraster	Tags infomapaccessservice (33) infofeatureaccessservice (22))
Auteur: <u>Beheer PDOK</u> Tags: <u>ahn</u> , <u>hoogte</u> , <u>hoogtegegevens</u> , <u>laseraltimetrie</u> , <u>lidar</u> , <u>maaiveld</u> , <u>puntenwolk</u> , <u>raster</u>	> hoogte (12) > natuur (12)	
WKPB WMS WKPB - Publiekrechtelijke Berperking - Wet Bodembescherming: Overzicht van de door de overheid opgelegde beperkingen op een stuk grond of een gebouw. Auteur: <u>Beheer PDOK</u> Tags: <u>gebiedsbeheer-gebieden-waar-beperkingen-gelden-gereguleerde-gebieden-en-</u> rapportage-eenheden, infomapaccessservice	> ahn (10) > hoogtegegevens (10) > laseraltimetrie (10) > lidar (10)	
<u>Fysischgeografischeregios WMS</u> Indeling van Nederland in Fysisch-Geografische Regio's. Voor de omgrenzing van de Regio's is een zo consistent mogelijke lijst van beslisregels gehanteerd, vooral gebaseerd op de bodemtypen. Dit bestand is een	Toon meer Betreft grondgebied	

> Nederland (79)



6. INSPIRE data licensing framework and open data in NL

The Dutch open data portal harvests from the National Georegistry









6. INSPIRE data licensing framework and open data in NL

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, <u>IDgis BV</u> from the Netherlands and German <u>lat/lon</u> (deegree3).

The source code can be downloaded here and is available under <u>GNU GPL license</u>.

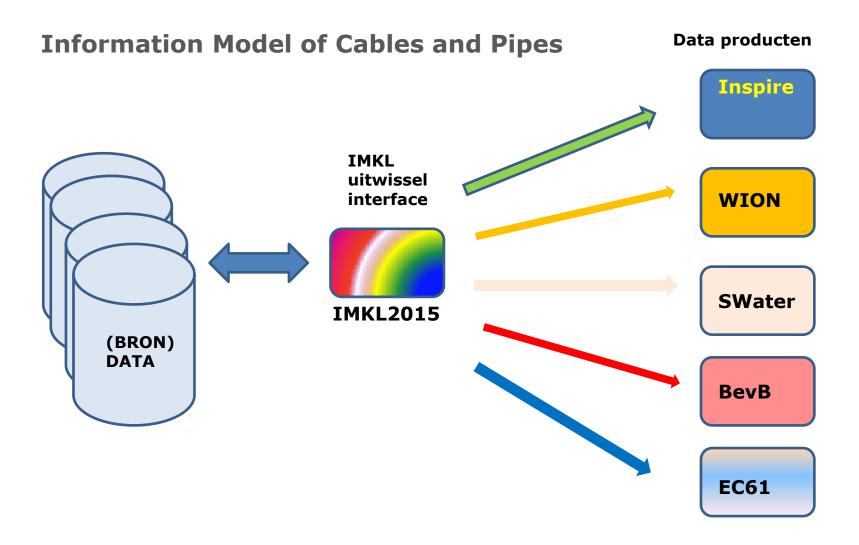




Harmonisation of Protected Areas in Annex I









Startup SIMACAN





"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."



Innovation through living labs





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

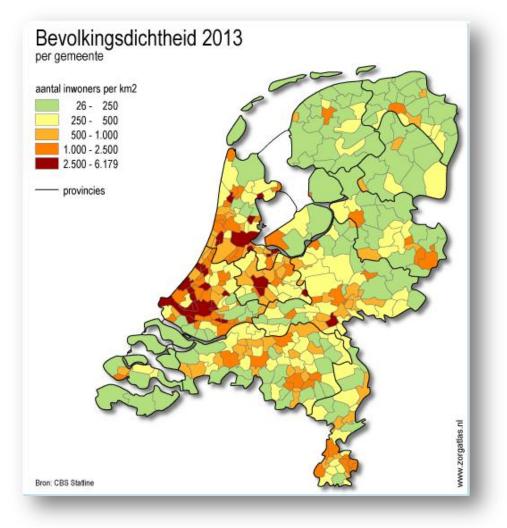
Challenges

- 1. Transformation of our data to INSPIRE data models in the next years.
- 2. Find users and develop smart apps using the INSPIRE infrastructure.
- 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!



8. Challenges and Conclusions

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!