Benefits from INSPIRE: Groundwater information management

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Bij12 (@12) : a Shared service for 12 NL Provinces

- Information management of 19 shared IT systems on behalf of 12 Provinces and 400 + other government partners

Bij12 Information systems in this case

- National groundwater permission registration
- INSPIDER: open source INSPIRE SDI
Content

- About Groundwater: situation in NL
- Information cycle Groundwater management
- Benefits from INSPIRE: For data users and data providers
- Improvement: challenges, data management and wishes
A quiet village, with a busy underground

... Needs rules and regulations on groundwater use
Groundwater management situation in NL:

- Many local governments share responsibility on groundwater management.

- Competences: permissions, protection zones, spatial planning and more.


- Public demands more e-based government and transparency.

All on the same m²: Sharing information is essential.
Solution: Groundwater Information cycle
Yes, We used INSPIRE because:

- Easy to find datasets and services: No more need to call 400 + organisations for administrative border updates or protected sites

- Sustainable datasets and services: No one-of project downloads but a reliable source for time to come

- Fixed data model: Less need for software changes because of data model changes

- Approachable owners and managers of data via details in meta data
... And we like being an INSPIRE data provider as well:

- Easy to find datasets and services: No more need to produce a database dump for “anyone who asks”

- Fixed data model: Less need for software changes because of data model changes

- We are a more approachable provider of data through details in meta data: Users give us quality checks for free:
Further Improvement: Our challenges

- Data quality as a priority demands data management (and a lot of effort): Data Quality Reference model

- INSPIRE PF data model: Not always usable for specific applications: still need for custom made services or datasets

- Lack of knowledge outside the GIS community
Data Quality Reference model

- A different point of view: (<>ISO 25010/25012)

The User / owner perspective and governance

- Quality: the content, processes and management are considerend

- An integrated context for several objectives and data quality aspects

- One quality aspect can have different appliances, depending on context

- The model applies to several stages (PDCA): measurement, improvement and securing of data quality

Referentiemodel Datakwaliteit: CC BY-SA 3.0 NL license
Wishlist

- A “wishlist” of datasets or services that are not (yet) available
- INSPIRE is a EU directive among others: more integration could improve use and support
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