INSPIRE in 2018 – user requirements, expectations and reality

Use of INSPIRE Data: past experiences and scenarios for the future

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www.gdi-de.org | www.geoportal.de | wiki.gdi-de.org
INSPIRE in 2018

- Background
- Current status
- Expectations
- Requirements
- Challenges

Geodaten vernetzen – besser entscheiden.

Geodateninfrastruktur (GDI-DE) – ein Vorhaben von Bund, Ländern und Kommunen
GDI-DE is a **joint initiative** for providing easy access to spatial data sets of federal government, states (Laender) and municipalities.

The base for any action is written down and signed in an **administrative agreement** between federal and state governments.
1 Nation (Federation) with parliament (legislature), administration (executive authority), judicial power

16 States („Länder“) each with parliament (legislature), administration (executive authority), judicial power

14,000 Municipalities with many rights of self-government
Administrative agreement between the federal and state governments since 2006: establish national SDI (GDI-DE), joint funding

- Amendment 2008: taking into account INSPIRE (national contact point, coordination structure)
- Amendment 2013: additional funding for the maintenance of common components (geoportal, discovery service, testsuite, registry)
- Amendment 2018:
17 laws at federal level and within 16 „Laender“
**INSPIRE roadmap**

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<sup>1</sup> incl. codelists

**Implementation of standards**

- **Original** data sets (≠ INSPIRE data model)
- **Interoperable** data sets (INSPIRE data model)

**Current status**

**INSPIRE in 2018 – user requirements, expectations and reality**
Spatial data set INSPIRE relevant?

- Spatial data set described with *metadata* compliant to IR
- Spatial data set *discoverable* compliant to IR
- Spatial data set *viewable* compliant to IR
- Spatial data set *downloadable* compliant to IR
- Spatial data set provided in *INSPIRE data model* compliant to IR
Monitoring 2017 - DE

Status Identification

Quelle: Kst. GDI-DE 2018
Monitoring 2017 - EU

Number of view / download services and the accessibility of spatial data sets via services

https:// inspire-dash board.eea.europa.eu 2018
Current status

Geodateninfrastruktur Deutschland

Availability and INSPIRE Geoportal Thematic Viewer

DE PS: 425 metadata / 82 direct downloads
Example PS

Bodendenkmal
enthalten

Bodendenkmal
evtl. enthalten

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Increasing demand for spatial information

**National level**
- Central access point for reference and sectoral data
- Collaboration platform; coordinated service provision
- Contribution to digitalisation
- Contribution to sustainable development
- Interconnection / Linking
- Quality assurance and transparency
- ...

**EU-level**
- EU-Directives (Mobility, …)
- EU-Reporting (→ priority data sets)
- UN sustainable development goals
- ...

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Example European Commission

- Consolidated and consistent overview of Commission user needs
- Cross-cutting and domain specific requirements of the EC for EU wide geospatial information and data products
- Support to Sustainable Development and other EU policies.
Expectations

- “The ultimate goal is to have harmonised national datasets from Member States that can be combined into consistent EU wide data sets without or limited further processing.”

- “The goal is that the Commission can integrate national data into pan-EU datasets consuming national INSPIRE services without the need to harmonise the data in terms of spatial and attributes quality.”

- “There is a growing trend to ‘open data’ is evident on the European scale. This is fully in line with the principles of INSPIRE and its main requirement to make data accessible.” (EC 2018, pp. 20)

- …

→ Expectations could not easily be fulfilled by current INSPIRE
Requirements

- “The final vision”
- Creation and availability
- Semantically and spatially harmonised
- Interoperable
- Pan-European datasets
- Based on existing open services/data
- Available from Member States
Shortcomings

- Quality: scale, thematic coverage, temporal coherence
- Access and use conditions: fees and rights to re-disseminate
- Reactivity: speed at which new data requirements from EU services can be met
- Harmonisation: differences in the implementation and interpretation of INSPIRE make the compilation of pan-EU products difficult without further harmonisation work
- Availability of download services
Conclusions

- Gap between expectations and reality of INSPIRE
- Shortcomings seem to be outside of current INSPIRE regulation
- Vision very ambitious – is it achievable?

- INSPIRE is one step – there are more steps/more components necessary to fulfil the vision
- INSPIRE can contribute to specific solutions users need – but not deliver generic use-case products
For the first time there are specific expectations and requirements for use cases verbalised by a central user of INSPIRE data

Important to understand INSPIRE as a first step towards the envisioned data harmonisation across the Member States

EC data requirements:

- Additional Member State efforts?
- Mandate EuroGeographics, industry or other stakeholders to provide those harmonised data and services on their behalf?
- EC services?
Conclusions

- Can be useful to show proof of INSPIRE benefit
  …not a per se solution for current INSPIRE

- With such a use case INSPIRE potentially can adapt to the new situation and shortcomings and set its course for the future

- More steps and more components are necessary to provide harmonised user-oriented products and to generate significant benefit of a common European spatial data infrastructure
Thank you for your attention!

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