eReporting and INSPIRE

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„The future of eReporting and the link to INSPIRE“
Background

INSPIRE Implementation Roadmap

Annex I
- Discovery metadata shall be available for spatial data sets and services
- Spatial data sets shall be available for discovery and view from the INSPIRE geo-portal (data does not yet need to be conformant to IR-ISDSS)
- Spatial data sets shall be available for download and transformation (whenever applicable) from the INSPIRE geo-portal (data does not yet need to be conformant to IR-ISDSS)

Annex II
- Newly collected and extensively restructured spatial data sets shall be conformant to IR-ISDSS (incl. metadata for interoperability) and available through network services
- All spatial data sets shall be conformant to IR-ISDSS (incl. metadata for interoperability) and available through network services

Annex III
- All invocable spatial data services related to newly collected and extensively restructured spatial data sets shall be conformant to Annexes VI and (where practicable) VII of IR-ISDSS (incl. metadata)
- All invocable spatial data services shall be conformant to Annexes VI and (where practicable) VII of IR-ISDSS (incl. metadata)


1 Transformation Services only need to be provided if data sets are not made conformant with the IR-ISDSS by some other means (see Art. 7(3) of the INSPIRE Directive)

2 With the exception of newly collected and extensively restructured Annex I data sets, which already have to be compliant with the IR-ISDSS by 23/11/2012

European Environment Agency
Problem definition

- Difference in terminology used by INSPIRE (cross-domain, re-usable models) compared to those in specific policy domains

- Transformations of environmental spatial data (models) require effort and do not provide immediate benefits

- Re-engineering has to be timed properly

- Lack of understanding which datasets are in scope

- Technical understanding often limited – together with the benefit discussion this is a reason why Reportnet has not yet been adapted

- INSPIRE data specifications cover reporting use cases to a very different degree

- Reporting deals with numerical, spatial and other data – only AQ exists as a „holistic“ and „integrated“ example

- Changes needed in data validation when using service based reporting
1. Identify relevant spatial datasets

2. Ensure proper documentation (metadata)

3. Make identified data available through web-based services

4. Transform the identified datasets into pre-defined data models
Approach to define spatial datasets

*Maturity level concept*

INSPIRE basic, essential, premium
(to under-pin a stepwise approach)

*Data typology*

Type 1 – geospatial reference data
Type 2 – environmental data (attributes, extensions)
Type 3 – textual and contextual data

*Together on member state level*

INSPIRE basic – type 1 as-is
INSPIRE essential – type 1 and type 2
INSPIRE premium – type 2 and type 3 linked to type 1
SDI offered by INSPIRE for eReporting shall allow:

• Ensure environmental data is made available

• Use the Reporting Fitness Check to generally simplify thematic reporting

• Invest in EU wide priority spatial datasets

• Make data available at source

• Develop together search and harvesting tools (e.g. through DG Env contracts)

• Allow for „a paradigm change in reporting (active dissemination et.al.)“

• Continue (for a period) data transmission to the EU level e.g. as defined in the MIWP „priority dataset“ group
Overall approach

**Member States**

1. Make Type 1 data (incl. list of priority datasets) available as-is (incl. metadata and preferably services). Type 2 data is voluntary

2. Type 1 data (inc. list of priority datasets) are transformed (here EU blueprints come in)

3. Type 2 and 3 data are linked through common elements jointly defined at EU level so that they can be found in Reportnet or in national webservices

**EU level**

1. Identify „priority datasets“ incl. a rolling workprogram for implementation

2. Develop a technical solution for harvesting Type 1 and 2 and where needed Type 3 data (through the „linked approach“

3. Engage with Member State in above step 3

4. EEA integrates type 2 and 3 where needed
Actions for the INSPIRE governance 2017 and beyond

**Stepwise implementation**

- Restructure eReporting along type 1, 2, 3 to prepare for the “linked approach”
- Finalise list of priority spatial datasets
- Guide Member States, setup helpdesk
- Define eReporting projects (as blueprints)
- Identify useful tools
- Develop a concept to “use the INSPIRE infrastructure in the EEA reporting processes and tools” (Reportnet 3.0 project 2018 – 2020 (Q1-Q2 2018 concept, afterwards implementation))
Thank You!

For written comments

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