Environmental reporting obligations and INSPIRE

A practical concept to support the identifying process

Elise Järvenpää ¹, Riitta Teiniranta ¹, Claudia Bergroth ², Lena Hallin-Pihlatie ¹, Riikka Repo ¹

¹ Finnish Environment Institute SYKE
² National Land Survey of Finland

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BACKGROUND

- INSPIRE REFIT evaluation: significant implementation gaps identified in the MS provision of INSPIRE datasets related to environmental reporting
- Finland has set up a Member State Action Plan for the years 2016–2020, to bring these datasets available
- Finnish Environment Institute SYKE is one of the biggest spatial data providers & environmental reporters in Finland

The goal:
- To search and identify “new” spatial data sets related to the environmental reporting obligations
- To create a concept for the identification process
- To create methods to define and publish datasets according to INSPIRE obligations
Practical concept for the identification

**Base for the exercise:** Priority list of data sets related to environmental reporting obligations, “minimum list” by Commission and MIG-P

1. **Updating of Commission priority list** e.g. with responsible national institutes & reporters
2. **Classification of reporting obligations** based on the known spatial datasets and implementation level of INSPIRE
3. **Identification of spatial datasets** related to each environmental obligation together with thematic experts (reporters)
4. **Development of data management system for environmental reporting**
5. **Prioritization of reporting obligations for the next tasks** according to e.g. reporting timetables, dataset readiness
6. **Creating an action plan** for adding reporting datasets to national catalogue of INSPIRE data sets and for publishing “as-is” data
The reporting obligations/directives were classified based on the known spatial datasets and according to the status of INSPIRE implementation:

1. Identified and reported as INSPIRE datasets
2. Partly identified and reported as INSPIRE datasets
3. Identified, but not reported as INSPIRE datasets
4. Spatial datasets not yet identified
## Spatial datasets not yet identified

<table>
<thead>
<tr>
<th>Reporting obligation</th>
<th>Reporter</th>
<th>INSPIRE theme?</th>
<th>Next reporting period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial Emission Directive (2010/75/EU)</td>
<td>SYKE</td>
<td>PF</td>
<td>annually</td>
</tr>
<tr>
<td>Landfill of Waste (1999/31/EC)</td>
<td>SYKE</td>
<td>*</td>
<td>One-off</td>
</tr>
<tr>
<td>Drinking Water Directive (98/83/EC) – DWD</td>
<td>THL/SYKE</td>
<td>*</td>
<td>2018</td>
</tr>
<tr>
<td>EU Regulation (1143/2014) on Invasive Alien Species</td>
<td>LUOMUS</td>
<td>*</td>
<td>2019</td>
</tr>
<tr>
<td>Mining Waste Directive (2006/21/EC)</td>
<td>SYKE</td>
<td>*</td>
<td>2018</td>
</tr>
<tr>
<td>Seveso III Directive (2012/18/EU)</td>
<td>SYKE/TUKES</td>
<td>*</td>
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<tr>
<td>E-PRTR Regulation (EC 166/2006)</td>
<td>SYKE</td>
<td>PF</td>
<td>annually</td>
</tr>
</tbody>
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* Eionet Core Data Flows

SYKE= Finnish Environment Institute
Starting point:
- Information for the reporting is gathered from various data sources
- Reported datasets are xls and xmls files, not in spatial data formats, stored in Reportnet/CDR

Identification process:
- Reporting obligation has been inspected together with reporters/thematic experts
- Preliminary identified data with location information: agglomerations (id), UWWT plants, discharge points (coordinates) and sensitive areas (Fl)
- Data specifications of reporting obligation will be compared with INSPIRE data specifications

Lessons learnt:
- Identification process with thematical experts is not easy, as experts don’t speak same language
- Ownership and responsibilities of the data are unclear
- Reported datasets are not stored and maintained in national level
1. National "metadata" of the reporting obligations is produced to SYKEs metadata catalogue
   - Relevant issues for managing reporting obligations selected
   - Links to Reportnet ROD & CDR
   - Spatial datasets and network services can later be linked to the profile

2. Reported data is stored and shared using data portal platform (CKAN)
   - Data is open and easily accessible for public use

3. Selected reported data are transformed to spatial datasets

4. Implementation steps of INSPIRE can start
Main conclusions

- Spatial datasets related to the framework directives are mostly organized to SDIs.
- In major part of the environmental reporting obligations, location information is in non-spatial form.
- INSPIRE requirements should be taken into account when making reporting guidelines.
- **EU-level guidance needed to insure the interoperability and harmonized datasets in EU-level**
  - For each reporting obligation INSPIRE themes have to be defined.
  - EEA/Commission could provide data models each reporting obligation as in CDDA.

**Current reporting approach in CDDA**

**CDDA 2018 approach re-using INSPIRE Protected Sites**

(Christian Ansorge/EEA)
Thank you!