

A practical concept to support the identifying process

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SYKE

#### 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

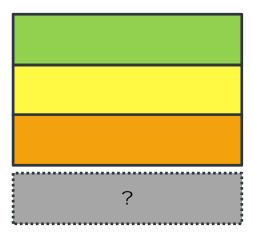
**Base for the exercise:** Priority list of data sets related to environmental reporting obligations, "minimum list" by Commission and MIG-P

- **T1. Updating of Commission priority list** e.g. with responsible national institutes & reporters
- **T2. Classification of reporting obligations** based on the known spatial datasets and implementation level of INSPIRE
- **T3. Identification of spatial datasets** related to each environmental obligation together with thematic experts (reporters)
- T 4. Development of data management system for environmental reporting
- T5. Prioritization of reporting obligations for the next tasks according to e.g. reporting timetables, dataset readiness
- **T6. Creating an action plan** for adding reporting datasets to national catalogue of INSPIRE data sets and for publishing "as-is" data



# T3. Classification of reporting obligations according to the INSPIRE implementation level

- 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

Reporting obligation	Reporter	INSPIRE theme?	Next reporting period
Industrial Emission Directive (2010/75/EU )	SYKE	PF	annually
Urban Waste Water Treatment Directive (91/271/EEC) – UWWT *	SYKE	AM, US, EF	2018
Nitrates Directive (91/676/EEC) – NID	SYKE	EM, AM	2020
Landfill of Waste (1999/31/EC)	SYKE	*	One-off
Marine Strategy Framework Directive (2008/56/EC) – MSFD	SYKE	AM, EM, PS	2018, -20, -22
Drinking Water Directive (98/83/EC) – DWD	THL/SYKE	*	2018
EU Regulation (1143/2014) on Invasive Alien Species	LUOMUS	-	2019
EMAS-regulation (EC) N:o 1221/2009	SYKE	*	Monthly
Mining Waste Directive ( 2006/21/EC)	SYKE	*	2018
Seveso III Directive (2012/18/EU)	<b>SYKE/</b> TUKES	*	
E-PRTR Regulation (EC 166/2006) *	SYKE	PF	annually

### Example UWWTD

#### **Starting point:**

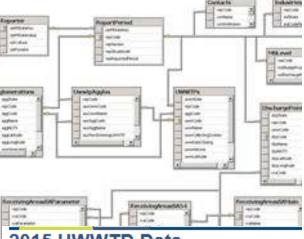
- Information for the reporting is gathered from various data sources
- Reported datasets are xls and xmls files, not in spatial data formats, stored in Reportnet/CDR

#### **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 (FI)
- 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



#### 2015 UWWTD Data

#### Description

Obligations Urban Waste Water Treatment

Period 2014 - Whole Year

Coverage Finland

**Reported** 30 Jun 2016 15:50

Status Envelope is complete



If you want to stay updated about eve dataflow(s).

#### Files in this envelope

- 1 Export.xml
- 2 | t agglomerations.log
- 3 | t contact.log
- 4 | dischargepoints.log
- 5 <u>t industries.log</u>
- 6 t mslevel.log
- t receivingareas Isa.log



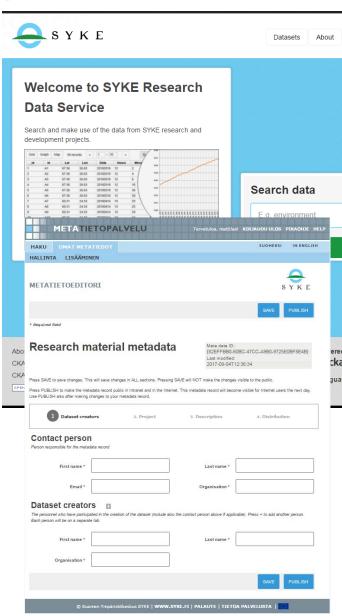
# Development of data management system for environmental reporting

# 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 acsessible 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

