SENSE – Shared European and National State of the Environment Environmental indicators

Conference "INSPIRUJME SE", 27.-28.11.2013

Darja Lihteneger, 28 November 2013



Overview

- State of the environment information
- SOER 2015 The European Environment State and Outlook
- Environmental indicators in the EEA
- National environmental indicators
- SENSE Shared European and National State of Environment:
 - Focus and objectives
 - Infrastructure
 - Lessons from SENSE-2
- EEA Semantic data service

Value chain of state of environment (SOE) information

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The monitoring/data/information/assessment/reporting (MDIAR) chain is the flow of data and information from national monitoring to European reporting. [definition source: EEA.]

Terminology source: http://glossary.eea.europa.eu



Monitoring

Results

Data



Information



Assessments



Reports

Raw inputs



- Aggregated data
- Metadata



- Interactive Maps
- Dynamic Graphs
- Indicator Specs



- Interpretations
- Fiches



Publications



European Environment Agency

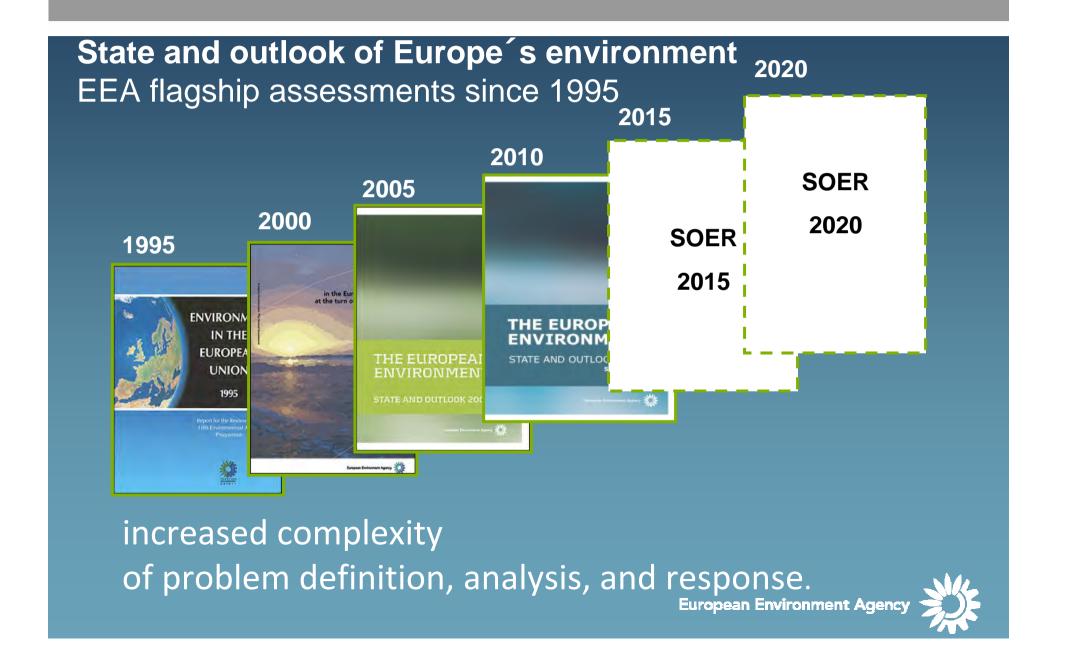
SOER 2015 - The European Environment State and Outlook

Regulation EC (401/2009) on EEA and Eionet defines in Art.2 the tasks of the EEA, among them:

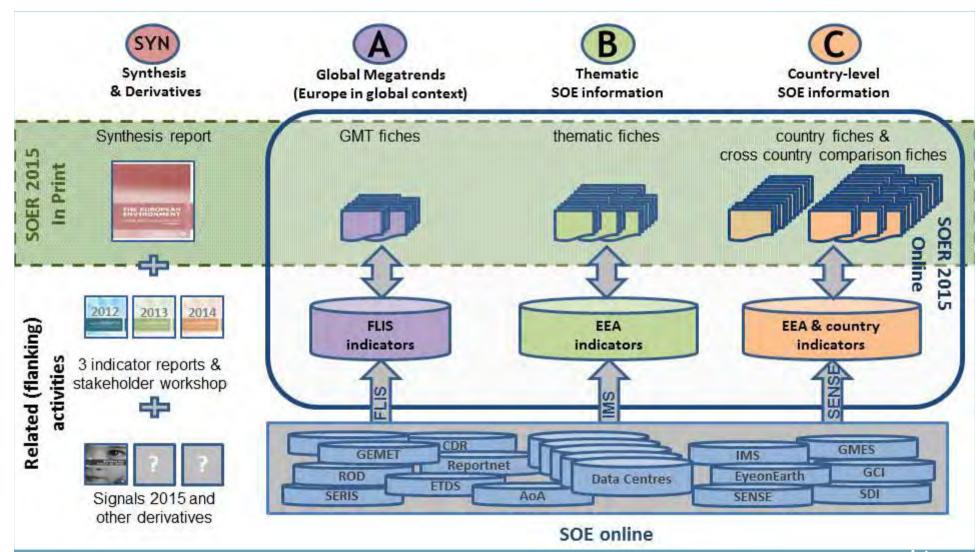


to publish a report on the state of, trends in and prospects for the environment every five years, supplemented by indicator reports focusing upon specific issues;

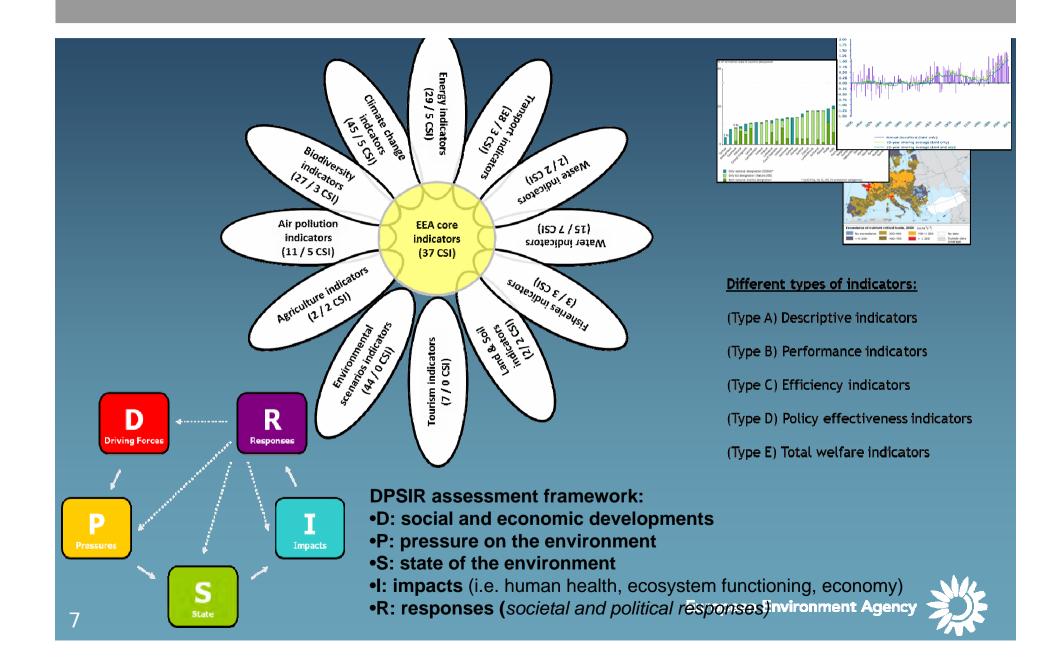
A deeper understanding of challenges



SOER process A suite of product(s): short briefs + up-to-date indicators



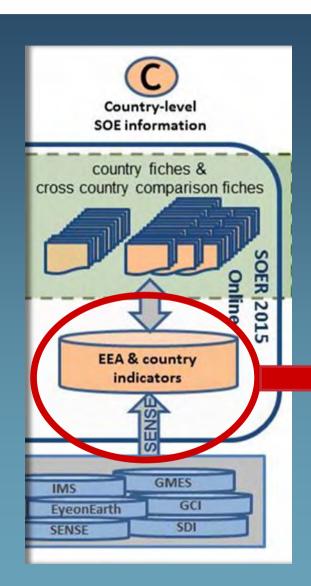
Overview of the EEA indicators



National-level indicators



SENSE - Shared European and National State of Environment: Environmental indicators



Focus: catalogue of national indicators connected/mapped with EEA indicators

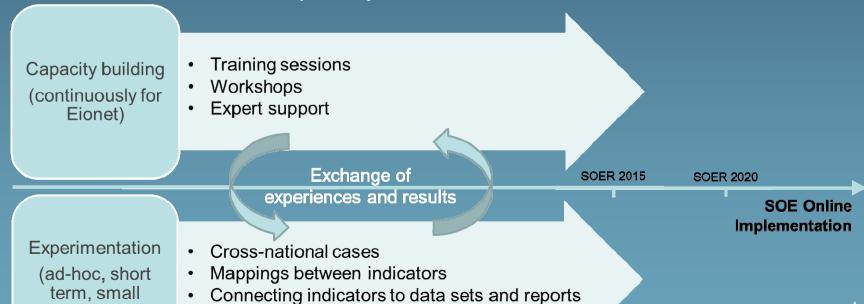
Objectives:

- •connecting existing indicator specifications and assessment at European, national and sub-national level
- advancing the technological infrastructure (continue to rely on Semantic Web/Linked Data technology)
- •Facilitate the collaboration between the thematic and ICT communities

SENSE approach

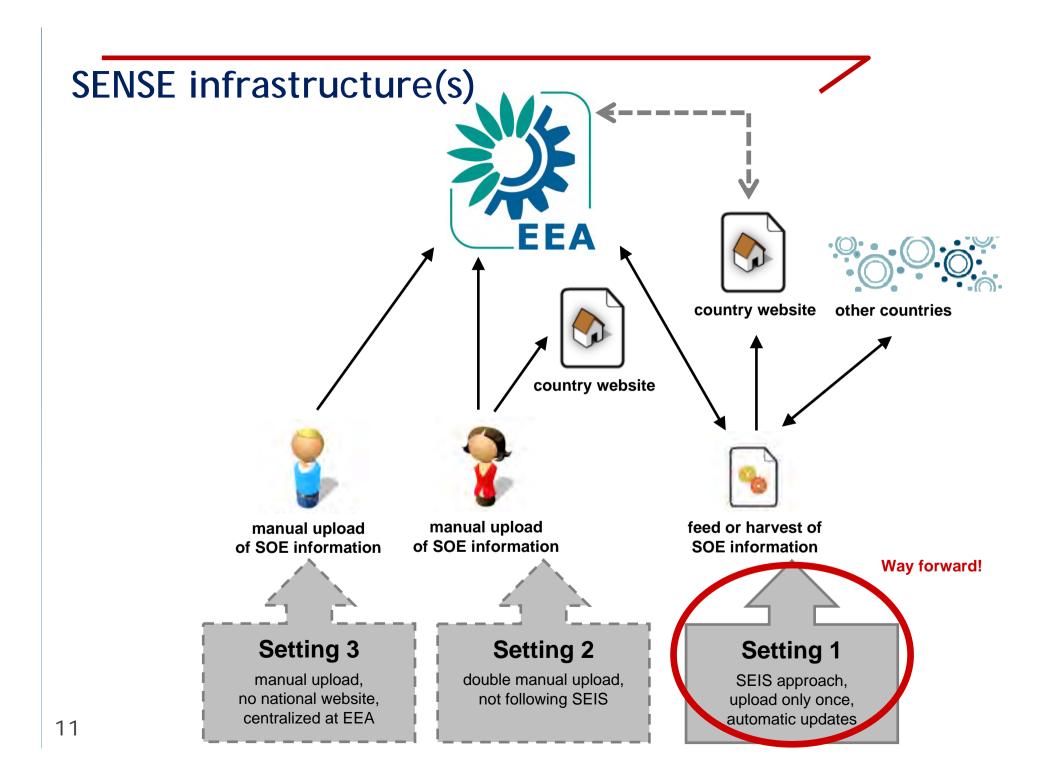
teams)

- Build on the experiences from SENSE-2 pilot project
- Involve EIONET in capacity building and experiments on specific topics (cross-national cases, mapping between indicators, connecting indicators and data sets, etc.)
- Will become part of SOE Online (dynamic, timely, on line)
- Linked to SOER 2015: priority on selected set of indicators in Part C!

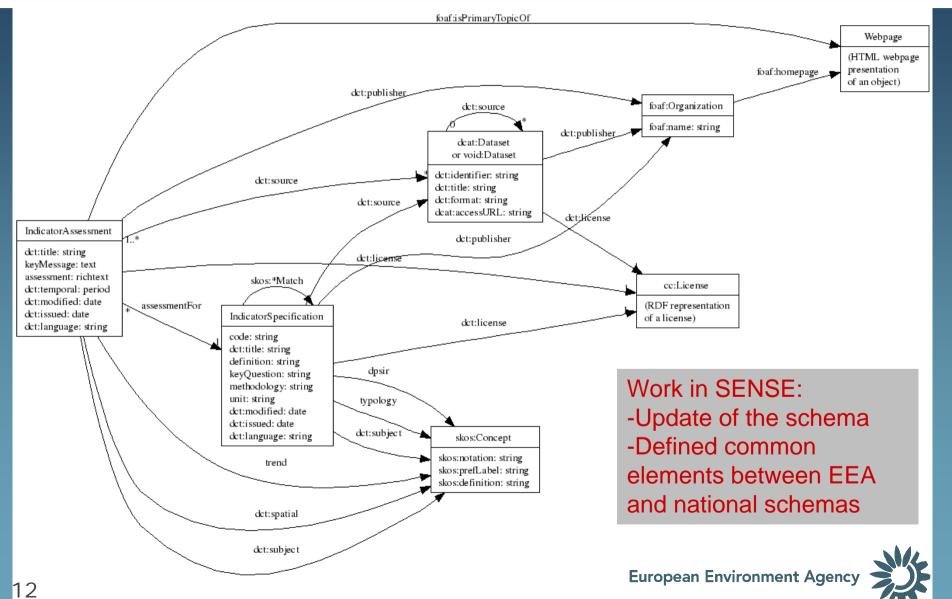


European Environment Agenc

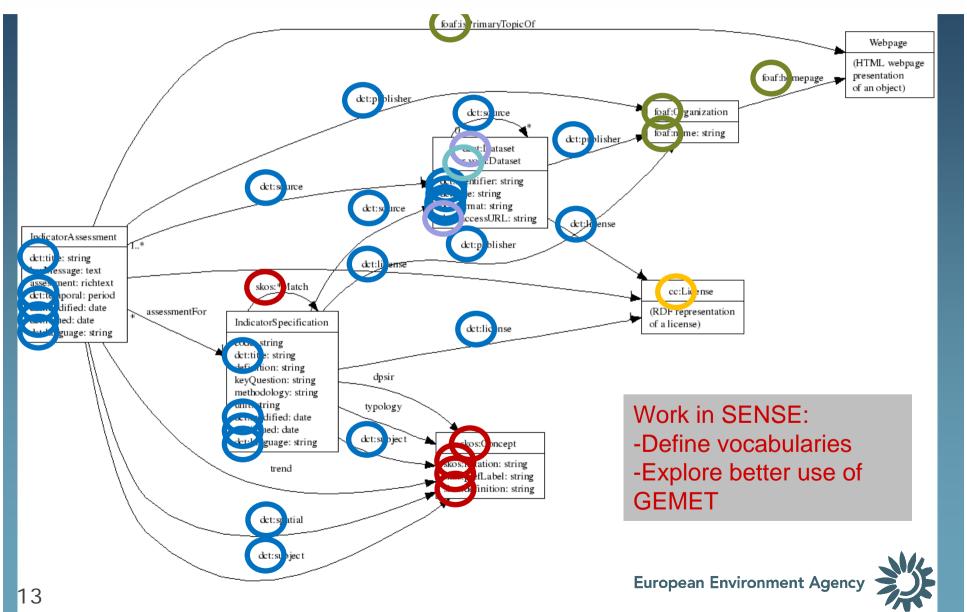
Testing of standards and tools, incl. geospatial



Experiences from SENSE-2 - a pilot project for SENSE: (RDF) Indicator Schema



Experiences from SENSE-2 - a pilot project for SENSE: Vocabulary creation and re-use (1/2)

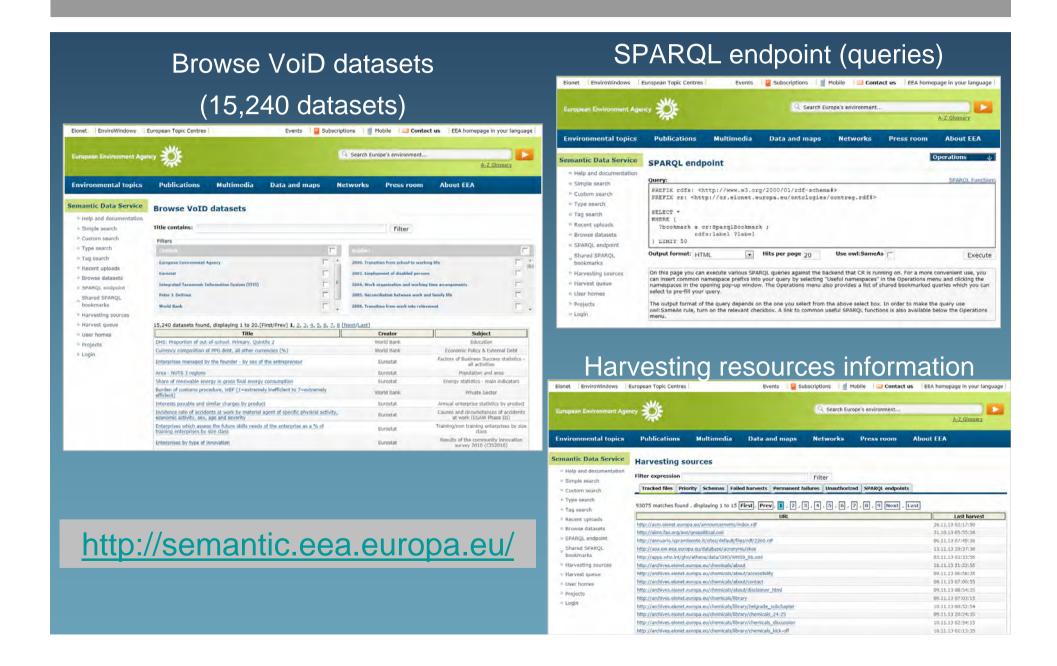


Experiences from SENSE-2 - a pilot project for SENSE: Vocabulary creation and re-use (2/2)

Title	Prefix	URI	
Dublin Core vocabulary	dct	http://purl.org/dc/terms	0
Friend of a Friend vocabulary	foaf	http://xmlns.com/foaf/0.1	0
SKOS Simple Knowledge Organization System	skos	http://www.w3.org/2004/02/skos/core	0
Creative Commons ontology	СС	http://creativecommons.org/ns	
Data Catalog vocabulary	dcat	http://www.w3.org/ns/dcat	
Vocabulary of Interlinked Datasets	void	http://rdfs.org/ns/void	O
SENSE's additional properties	<empty> or sense</empty>	http://rdfdata.eionet.europa.eu/sense/ontology	

[source] https://svn.eionet.europa.eu/projects/LinkedData/wiki/SENSE2/ClassDiagram#ClassDiagramandproperties

EEA Semantic Data Service



Thank you!

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