



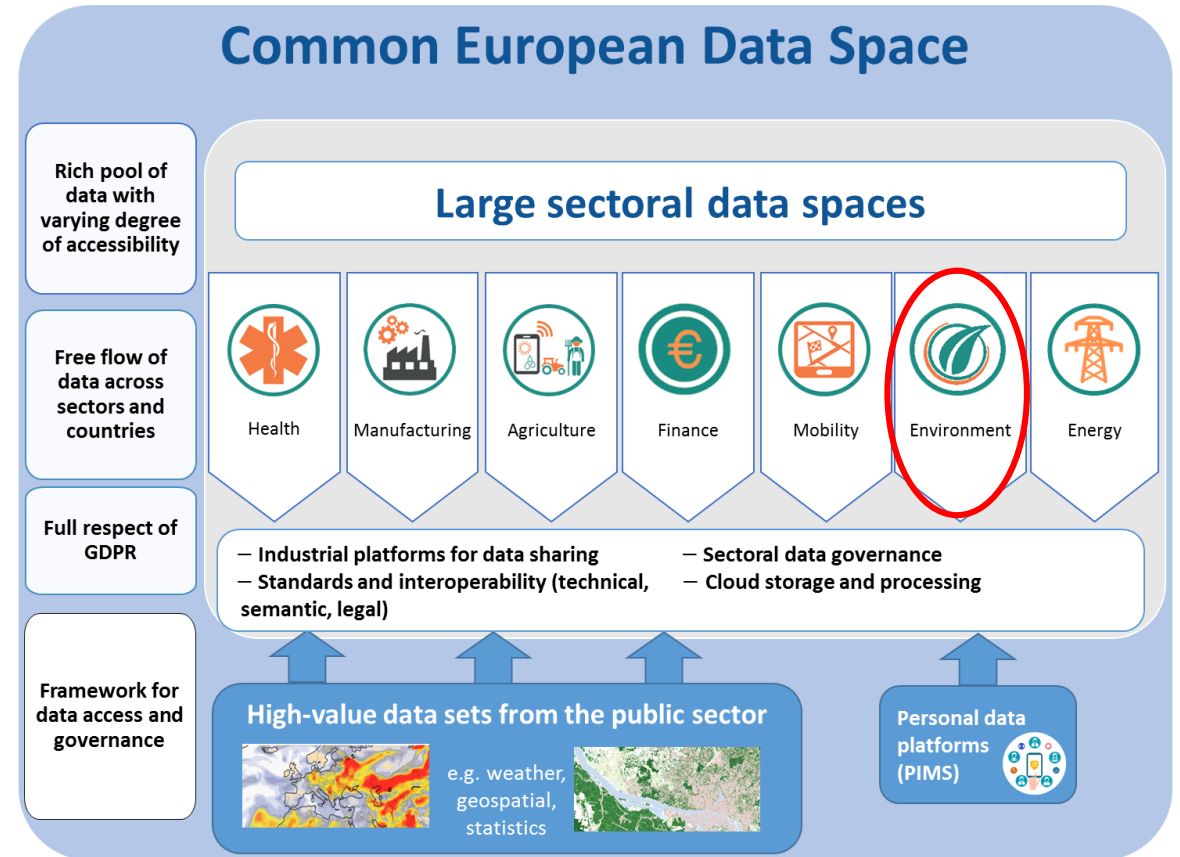
The evolution of environmental data sharing in Europe: an INSPIRE perspective

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European strategy for data

- Envisions the creation of a European single market for data.
- Highlights the problems to address:
 - data availability (licensing), sharing, interoperability, quality, governance, infrastructure & technologies, skills & data literacy, cybersecurity
- Envisages the establishment of:
 - a common EU data space
 - sectoral data spaces



Open Data Directive

- Requires that specific datasets from the public sector are made available:
 - free of charge & under open licenses
 - in machine-readable formats, via **APIs & bulk download**



- These are named **high-value datasets** & are defined in 6 thematic areas:
 - geospatial
 - Earth observation and environment
 - meteorological
 - statistics
 - company and company ownership
 - mobility

INSPIRE

High-value datasets (HVD)

- **Impact assessment study** contracted by DG CNECT to identify potential HVD in the 6 thematic areas
1. **Methodological framework to identify:**
 - **6 macro-categories of value:** climate change and environment, economic, innovation and AI, public services and public administration, re-use, social
 - **32 categories of value**
 - **126 quantitative and qualitative indicators**
 2. **Identification of datasets in scope:**
 - **analysis of relevant EU legislation & implementation status**
 - **interviews** with Member States responsible organisations & stakeholders
 - **focus groups** with experts
 - **prioritization** of datasets

High-value datasets (HVD)

- Impact assessment study contracted by DG CNECT to identify potential HVD in the 6 thematic areas
- 3. Micro-level analysis of HVD and recommended policy options:
 - current state of play of the provision of identified datasets in each Member State
 - recommended measures for publication
 - expected costs to adapt to such measures: infrastructural, data transformation, operational, other
 - proposal of two policy options (lower-intensity and higher-intensity)
- 4. Macro-level impact of policy options:
 - comparison of policy options through Multi Criteria Analysis
 - cost estimation of policy options
 - modelling the impact of policy options

Next steps

- Finalization of:
 - impact assessment
 - implementing act on a list of high-value datasets (Q1 2021)
- Expectations for each thematic area:
 - list of high-value datasets
 - publication measures:
 - openness: license
 - accessibility: format(s), APIs & bulk download
 - documentation: metadata
 - quality: update frequency, granularity
 - data model: key attributes

Implications for INSPIRE & GO-PEG

- Expected impact on INSPIRE (& the Green Deal data space) is substantial:
 - increased **availability** & **consumption** of INSPIRE datasets
 - implementation driven by real demand & **tangible use cases**
 - **harmonisation** is key
 - **open data** requirement added to INSPIRE requirements
 - increased/easier **accessibility** of INSPIRE datasets
 - alternative data **encodings**
 - standard-based **APIs** (incl. OGC APIs family)
- Contribution of GO-PEG is fully in scope.

INSPIRE modernisation & good practices

- Evolution of INSPIRE:
 - based on new technologies, standards, data sources, approaches, etc.
- Good Practice library on the IKB
- Procedure for endorsement:
 1. initiation
 2. submission as good practice candidate
 3. outreach
 4. submission as a good practice
 5. feedback
- Candidate good practices examples:
 - OGC API - Features
 - OGC SensorThings API

The screenshot shows the INSPIRE Knowledge Base (IKB) website. The header includes the European Commission logo, the text 'INSPIRE KNOWLEDGE BASE', and a search bar. Below the header is a navigation menu with options: Home, Learn, Implement, Participate, Use, and Toolkit. A 'Quick search' sidebar on the left lists various categories like 'Data and Service Sharing', 'Data Specifications', 'Implement', 'INSPIRE', 'INSPIRE in your Country', 'Learn', 'Maintenance and Implementation', 'Metadata', 'MIG Workprogramme', 'Monitoring and Reporting', 'Network Services', 'Participate', 'Spatial Data Services', and 'Use'. The main content area is titled 'Good Practice Library' and features a table of 'Good Practice documents'. The table has two columns: 'Candidate' and 'Endorsed'. Under 'Candidate', there are links for 'SDMX for Human Health and Population Distribution' and 'INSPIRE download services based on OGC API - Features'. Under 'Endorsed', there is a link for 'GeoDCAT-AP'. Below the table, there is a 'Good Practice Template' section with a 'Download Template' button. The 'Context' section explains the development of INSPIRE and the need for good practices, mentioning the creation of Implementing Rules (IRs) and Technical Guidelines (TGs). It also lists three types of good practices: 1. Good practice related to INSPIRE implementation, 2. Good practice related to tools and techniques useful for INSPIRE implementation, and 3. Good practice related to technologies that build on top of INSPIRE. The footer of the page mentions a procedure for proposing, documenting, reviewing, and publishing good practices.

<https://inspire.ec.europa.eu/portfolio/good-practice-library>

Thank you!



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