



# Transforming & Exploiting High Value Datasets: Synergies in EU Open Data Projects

Webinar, 19/11/2024

# EU Open Data Projects – EC Project Officers



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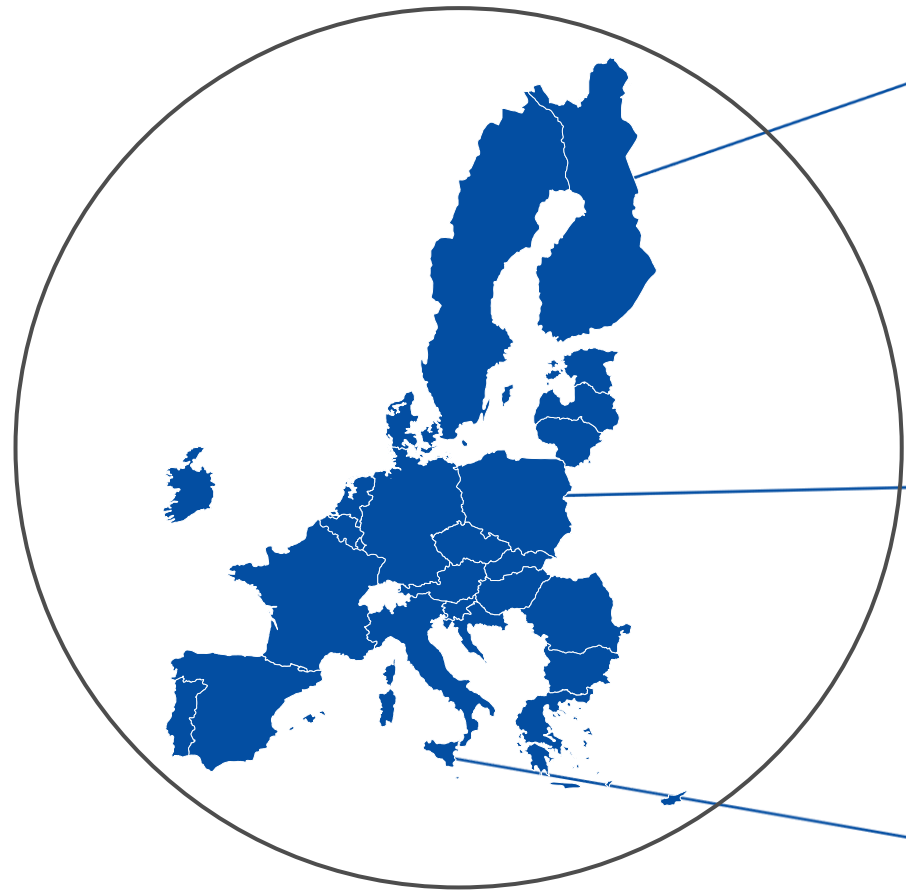
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# EU Data Strategy

# The vision: a European Single Market for Data



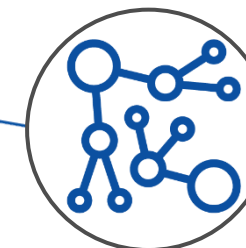
## European Data Strategy, February 2020

- Genuine internal data market built on EU values and rules
- Create conditions to make data sharing and use easier
- Facilitate cross-border and cross-sectoral data sharing
- Fully reap the benefits of data



## A horizontal legislative framework:

- Data Governance Act – applicable since 24 Sep 2023
- Implementing Act on High-value datasets (Open Data Directive) – applicable from 9 June 2024
- Data Act – applicable from 12 September 2025



## Common European Data Spaces:

- Roll out of Common European Data Spaces in 14 strategic economic sectors and domains of public interest

# The vision: a European Single Market for Data

European data strategy, Feb 2020

## Horizontal Data Legislation

Data Act

Data Governance Act

Open Data Directive

Free Flow of Data Regulation

GDPR

...

## Common European Data Spaces



Health



Manufact.



Agriculture



Finance



Mobility



Green Deal



Energy



Public Admin.



Skills



R&I (EOSC)



Tourism



Cultural heritage



Media



Language

High Value Datasets from public sector

## European Data Innovation Board

- Prioritisation of cross-sectoral interoperability standards
- Facilitate the sharing of good practices

## Data Spaces Support Centre

- Coordination and support of data space projects
- Development of blueprint, glossary, etc.

## Technical Infrastructure

Standards / Interoperability

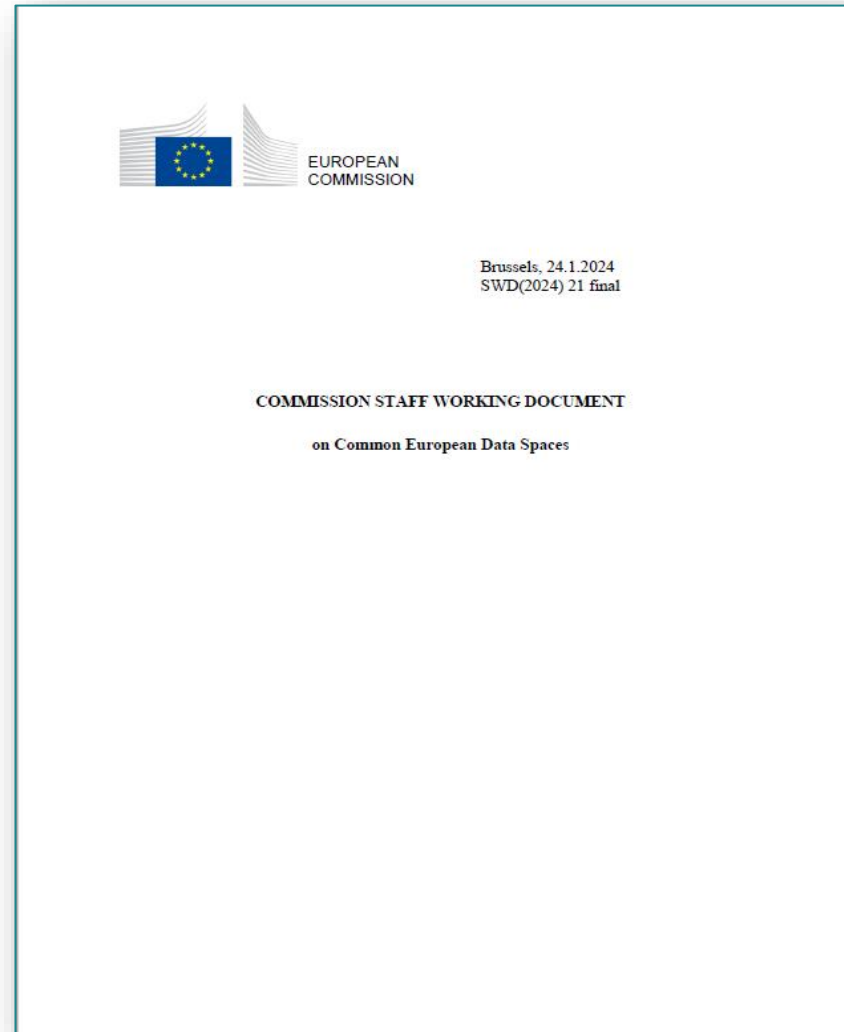
Digital identity (eIDAS)

Smart Middleware Platform (Simpl)

High-Performance Computing

Testing and Experimentation Facilities

# Commission Documents on Common European Data Spaces – Feb 2022 & Jan 2024



At request  
European Council  
25 March 2021

[SWD\(2022\) 45](#)  
of 23.2.2022

[SWD\(2024\) 21](#)  
of 24.1.2024

State of play of  
the sectoral /  
domain-specific  
Common  
European Data  
Spaces

# High-value datasets

# The beginning: public sector data open for re-use.

## Open Data Directive => high-value datasets.

### Open Data Directive

of 2019  
(its predecessor  
in place since 2003)

- **The Directive**: all publicly accessible data from the public sector should be easier and cheaper to re-use for innovation.
- Access to information rules are mostly set by the MS.
- Application of the Directive must fully respect the data protection rules, confidentiality, security, IPRs etc.
  - **Next level:** Commission Implementing Regulation became applicable from 9 June 2024.
  - List of public sector datasets with a high reuse potential for the society and economy that **have to be made available**:
    - **for free, in machine-readable formats, via APIs and (where relevant) as bulk downloads.**

*Geospatial*

*Earth observation  
and environment*

*Meteorological*

*Statistics*

*Companies and  
company  
ownership*

*Mobility*



# Member States to report on High Value Datasets

- Under Article 5(3) of the Implementing Regulation each Member State must ‘provide the Commission with a **report on the measures** they have carried out to implement this Implementing Regulation’.
- By **9 February 2025** and then every 2 years.
- The Commission makes available **tools to make the reporting simple**, thanks to concrete SPARQL queries.

Article 5 (3): The report shall contain the following information:

**(a) a list of specific datasets** at Member State level (and, where relevant, subnational level) corresponding to the description of each high-value dataset in the Annex to this Regulation and with online reference to metadata that follow existing standards, such as a single register or open data catalogue;

**(b) persistent link to the licensing** conditions applicable to the re-use of high-value datasets listed in the Annex to this Regulation, per dataset referred to in point a);

**(c) persistent link to the APIs** ensuring access to the high-value datasets listed in the Annex to this Regulation, per dataset referred to in point a);

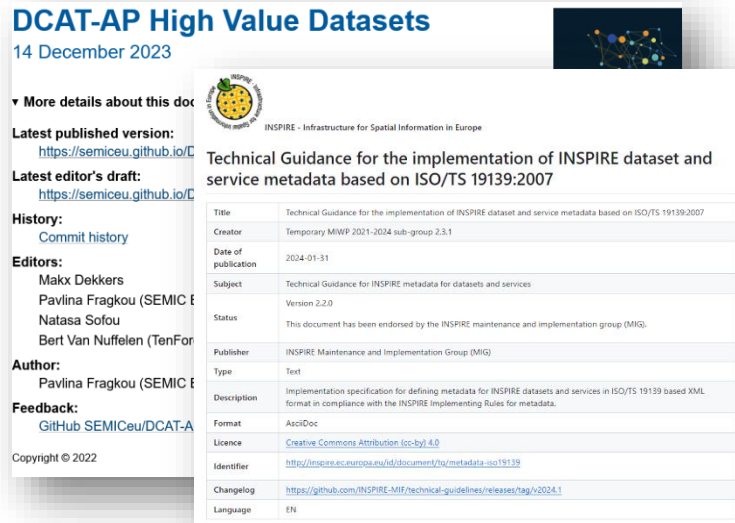
*(d) where available, guidance documents issued by the Member State on publishing and reusing their high-value datasets;*

*(e) where available, the existence of data protection impact assessments carried out in accordance with Article 35 of Regulation (EU) 2016/679;*

*(f) the number of public sector bodies exempted in accordance with Article 14(5) of Directive (EU) 2019/1024.*

# Reporting: builds on existing (improved) common practices

Use existing metadata standards and metadata sharing networks of data portals



**DCAT-AP High Value Datasets**  
14 December 2023

More details about this document: <https://semiceu.github.io/>

Latest published version: <https://semiceu.github.io/>

Latest editor's draft: <https://semiceu.github.io/>

History: [Commit history](#)

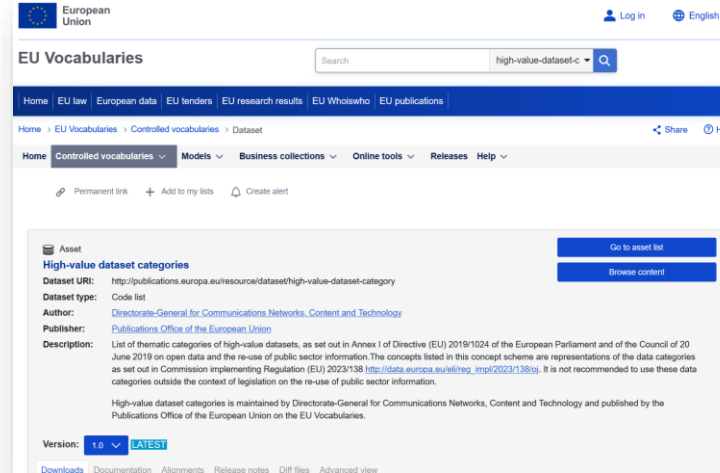
Editors: Makx Dekkers, Pavlina Fragkou (SEMICEU), Natasa Sofou, Bert Van Nuffelen (TenForce)

Author: Pavlina Fragkou (SEMICEU)

Feedback: [GitHub SEMICEU/DCAT-AP](#)

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INSPIRE - Infrastructure for Spatial Information in Europe	
Title	Technical Guidance for the implementation of INSPIRE dataset and service metadata based on ISO/TS 19139:2007
Creator	Temporary MIWP 2021-2024 sub-group 2.3.1
Date of publication	2024-01-31
Subject	Technical Guidance for INSPIRE metadata for datasets and services
Status	Version 2.2.0 This document has been endorsed by the INSPIRE maintenance and implementation group (MIG).
Publisher	INSPIRE Maintenance and Implementation Group (MIG)
Type	Text
Description	Implementation specification for defining metadata for INSPIRE datasets and services in ISO/TS 19139 based XML format in compliance with the INSPIRE Implementing Rules for metadata.
Format	AsciiDoc
Licence	<a href="#">Creative Commons Attribution (cc-by) 4.0</a>
Identifier	<a href="http://inspire.ec.europa.eu/id/document/10w/metadata-iso19139">http://inspire.ec.europa.eu/id/document/10w/metadata-iso19139</a>
Changelog	<a href="https://github.com/INSPIRE-MIF/technical-guidelines/releases/tag/v2024.1">https://github.com/INSPIRE-MIF/technical-guidelines/releases/tag/v2024.1</a>
Language	EN



European Union

EU Vocabularies

Search: high-value-dataset-c

Home | EU law | European data | EU tenders | EU research results | EU Whoiswho | EU publications

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Asset

**High-value dataset categories**

Dataset URI: <http://publications.europa.eu/resource/dataset/high-value-dataset-category>

Dataset type: Code list

Author: Directorate-General for Communications Networks, Content and Technology

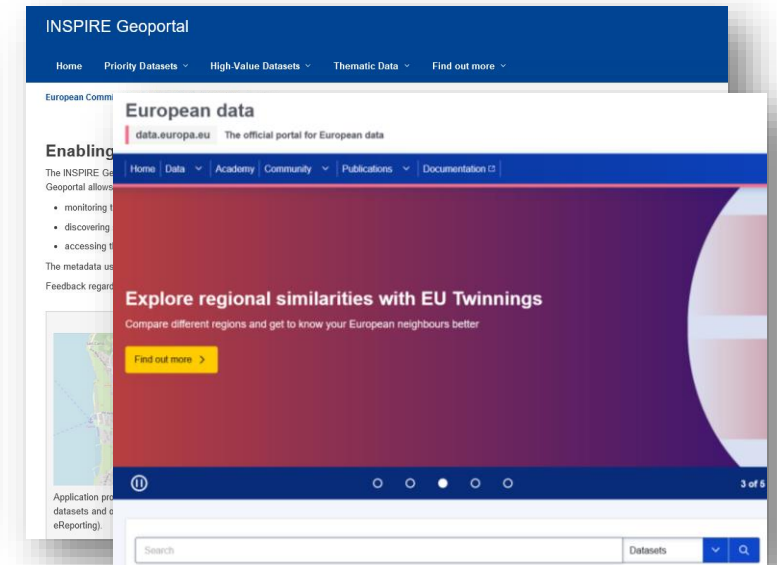
Publisher: Publications Office of the European Union

Description: List of thematic categories of high-value datasets, as set out in Annex I of Directive (EU) 2019/1024 of the European Parliament and of the Council of 20 June 2019 on open data and the re-use of public sector information. The concepts listed in this concept scheme are representations of the data categories as set out in Commission Implementing Regulation (EU) 2023/138 [http://data.europa.eu/eli/reg\\_impl/2023/138/oj](http://data.europa.eu/eli/reg_impl/2023/138/oj). It is not recommended to use these data categories outside the context of legislation on the re-use of public sector information.

High-value dataset categories is maintained by Directorate-General for Communications Networks, Content and Technology and published by the Publications Office of the European Union on the EU Vocabularies.

Version: 1.0 | **LATEST**

Downloads | Documentation | Alignments | Release notes | Diff files | Advanced view



INSPIRE Geoportal

Home | Priority Datasets | High-Value Datasets | Thematic Data | Find out more

European Commission

**European data**  
[data.europa.eu](http://data.europa.eu) The official portal for European data

Enabling the INSPIRE Geoportal allows you to:

- monitoring
- discovering
- accessing

The metadata used in this portal are available under the following licence:

Feedback register

**Explore regional similarities with EU Twinings**  
Compare different regions and get to know your European neighbours better

[Find out more](#)

Application groups: datasets and eReporting

Search: Datasets

Metadata standards such as [DCAT-AP HVD](#), INSPIRE HVD guidelines

Shared code lists such as [HVD categories](#), [licences](#), ...

Harvesting networks and data portals such as [data.europa.eu](http://data.europa.eu) and [INSPIRE data portal](#).

Ongoing activities which are **being improved to match the HVD requirements**

# Developments on HVDs reporting requirements

- 3 webinars with the Member States on the reporting requirements on HVDs (in February, June, October 2024)
- New [code list for HVDs](#) that includes titles of HVDs (from 2 October in all EU languages)
- **SEMIC Recommendation:** Guidelines on how to use DCAT-AP for a dataset that is subject to the requirements imposed by the implementing regulation

➤ [DCAT-AP-HVD 3.0.0](#) released on 25 October



- Reporting guidelines for HVDs on [data.europa.eu](https://data.europa.eu)

➤ how to automate reporting thanks to metadata

# Future policies – New Commission

# Towards a new Commission 2024-2029

Boosting productivity with digital tech diffusion

To support the development of AI and other frontier technologies, **Europe needs to exploit the untapped potential of data.**

Europe needs a **data revolution.**

We will put forward a **European Data Union Strategy**. This will draw on existing data rules to ensure a simplified, clear and coherent legal framework for businesses and administrations to share data seamlessly and at scale, while respecting high privacy and security standards.

Political guidelines 2024-2029



# Commissioner-Designate Henna Virkkunen

Executive Vice president for Tech Sovereignty, Security and Democracy



[Mission Letter to Henna Virkkunen](#)



- **Accessible High-Quality Data**  
Ensure high-quality data is available to European innovators addressing the scarcity of fresh datasets for AI.
- **Streamlined legislation**  
Clarify and streamline the existing data legislation to make it more coherent and understandable and user friendly.
- **International Data Flows**  
Enhance, secure cross-border data exchanges, balancing privacy with innovation potential.

Our goal: building a genuine single market for data

## Data Union Strategy

# Extension of thematic categories of HVDs

- Final study published in 2023
- Potential extension data themes
- Candidates:
  - Climate loss
  - Energy
  - Financial
  - Government and public administration
  - Health
  - Justice and Legal
  - Language



# Thank you for your attention



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