

Improving FAIR data sharing in support of the European Green Deal data space: the INSPIRE Good Practices

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GO-PEG

**Harmonized thematic
open data sets**

Webinar:

Lessons learnt & experiences
28 February 2023 (10:30 a. m. CET)

Modernisation of INSPIRE

- 2021 JRC outlook on how to modernise **INSPIRE** from the organisational and technological perspectives, by:
 - reflecting on **lessons learnt** from the first 15 years of implementation
 - assessing the new **political and technological** context
 - **Green Deal & data spaces**
 - disruptive **technological trends** around (geo)data
 - developing a **vision** for the future and **actions** to achieve it

<https://publications.jrc.ec.europa.eu/repository/handle/JRC126319>



The possible future of INSPIRE

- Data sharing is **not a goal in itself**. To remain fit for purpose, INSPIRE should support data-driven decision-making and innovation.
- To be sustainable, INSPIRE should **'blend in' with the broader ecosystem** of spatial and non-spatial data, infrastructures, technologies and policies.
- This will mean **opening up to a broader community** of implementers and users and to a wider range of applications and use cases.
- Making the INSPIRE framework more **flexible and agile** will significantly lower the entry level to the sharing and utilisation of data.
- Technical **approaches need to be simplified** by reusing well-adopted standards and technologies.

Actions

- Legal:

1. Avoid **overspecification** in legislation
2. Use a **simple licensing framework**

- Organisational:

1. Embrace **co-design** by default
2. Rethink the existing **governance** structures
3. Adopt an **ecosystem** approach

- Technological:

1. Continue to improve the **discoverability** and **accessibility** of data
2. Ensure **neutrality** and embrace well-adopted standards and technologies
3. Avoid **custom extensions**
4. Embrace well-documented, **standard-based APIs**
5. Optimise data for **search engines**
6. Leverage on the developments of **federated European cloud infrastructure**


INSPIRE Good Practices

WHY • Introduced to **modernise** and add value to the infrastructure

WHAT • Leverage

- new **technologies**, **standards** & **approaches** for making (meta)data FAIRer
- **experiences** gained from implementations

WHO • Based on an **agile** process:

- **community**-initiated/driven
- using **online collaborative platforms** 

HOW • According to a step-wise procedure:

1. initiation

2. submission as good practice candidate

3. outreach

4. submission as a good practice

5. legal scrutiny

6. feedback

INSPIRE Good Practices

Candidate	Endorsed
<u>GeoJSON encoding of INSPIRE Datasets</u>	<u>GeoDCAT-AP</u>
	<u>SDMX for Human Health and Population Distribution</u>
	<u>OGC API – Features as an INSPIRE download service</u>
	<u>OGC SensorThings API as an INSPIRE download service</u>
	<u>Building one access point to dispersed data sources</u>
	<u>Making spatial data downloadable via WMS services</u>
	<u>OGC compliant INSPIRE Coverage data and service implementation</u>
	<u>GeoPackage encoding of INSPIRE datasets</u>
	<u>Data-Service Linking Simplification</u>

INSPIRE Good Practices – F

Candidate

[GeoJSON encoding of INSPIRE Datasets](#)

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FINDABILITY

INSPIRE Good Practices – FA

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FINDABILITY
ACCESSIBILITY

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FINDABILITY
ACCESSIBILITY
INTEROPERABILITY

INSPIRE Good Practices – FAIR

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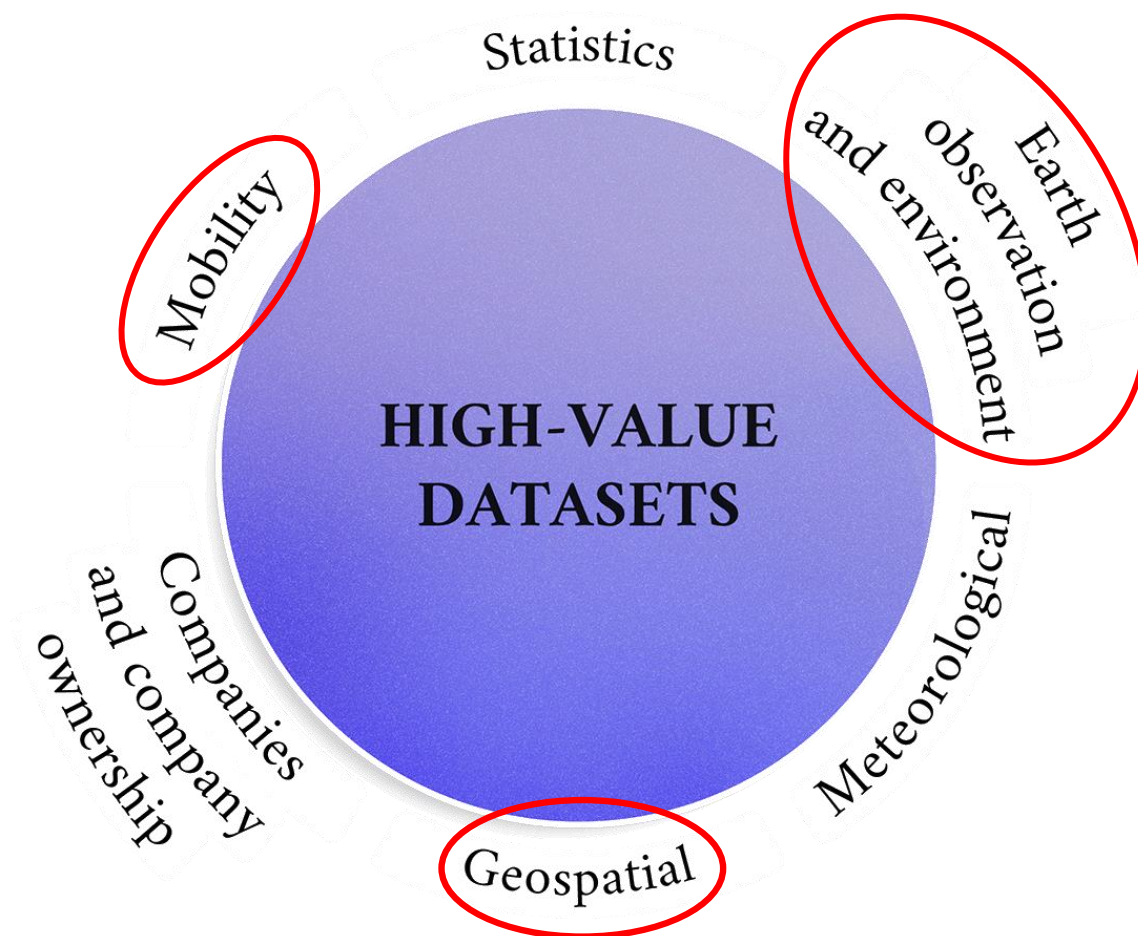
[GeoPackage encoding of INSPIRE datasets](#)

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FINDABILITY
ACCESSIBILITY
INTEROPERABILITY
REUSABILITY

Implementing Act on high-value datasets

- High-value datasets in 3 out of the 6 categories are in scope of INSPIRE.



Implementing Act on high-value datasets

- High-value datasets in 3 out of the 6 categories are in scope of INSPIRE.
- INSPIRE Good Practices strongly support implementation!

1.2. Arrangements for the publication and re-use

a) The datasets shall be made available for re-use:

- under the conditions of the Creative Commons BY 4.0 licence or any equivalent or less restrictive open licence;
- in a publicly documented, Union or internationally recognised open, machine-readable format;
- through application programming interfaces ('APIs')¹¹ and bulk download;
- in their most up-to-date version.

data encodings

OGC W*S & standards-based APIs

b) The metadata describing the datasets within the scope of the INSPIRE data themes shall contain at least the metadata elements set out in Commission Regulation (EC) No 1205/2008.¹²

metadata formats

Thank you!



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