# IMPACT OF THE HVD ACT ON THE IMPLEMENTATION OF THE INSPIRE DIRECTIVE

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GEONOVUM

# Support INSPIRE (and other) dataproviders

- Establish cooperation between responsible person INSPIRE and responsible person HVD -> expanding the INSPIRE community

- Explanation of the HVD (and Open data directive, ..) in knowledge sessions -> same interpretation: building of a common understanding

- Address possible issues, Record facts and answers to questions in factsheets.

# Factsheets

- APIs
- Principles for the High Value Data List implementation
- Historical data

Factsheets are also used for impact analyse on HVD

Factsheets are available in english

# Factsheet APIs

The question is:

Does the current access via the INSPIRE network services meet requirements of the ODD and HVD?

# Factsheet APIs - definitions

- An API is defined in ODD as "a set of functions, procedures, definitions and protocols for communication between machines and seamless data exchange."

- No technical regulation for API functionality and technology has been drawn up. Therefore, no "technical" choice or API style is required for APIs. However, it should be "functional APIs corresponding to the reasonable needs of re-users".

- For the themes geo-data, earth observation and environment and mobility, it is indicated that it is an API such as 'the INSPIRE direct access download services'.

# Factsheet APIs - MIG-T

INSPIRE data providers with HDVL data sets can use the INSPIRE network services in the following way for the HDV[1]:

| Inspire "network service" | API | Bulk Download |
|---|---|---|
| OWS: WFS, WCS, SOS | X | X |
| OGC API: Sta, API Features | X | X |
| Atom feeds | | X |

[1] MIG-T meeting 25 November 2022

# Factsheet APIs - Standards

- The international standards for INSPIRE APIs have been developed by the OGC. These first generation OWS standards, such as WFS, WCS and SOS, are based on RPC and XML.

- These standards are still valid and in use, but are gradually replaced by the new generation.

- This new generation, the OGC APIs are based on general Web architecture, i.e. REST. In the general Web architecture, the Dutch API strategy of the government is also applied.

# Factsheet APIs - Advise

- In short, datasets accessed via INSPIRE direct access download services can also be used as HDV APIs. There are no prescribed technical implementation rules from ODD and HDVL, but an expectation that APIs will grow with the reasonable wishes of re-users.

- Therefore, implement and encourage the use of REST APIs in accordance with the Dutch API strategy and in accordance with the OGC API standards such as STA and OGC API features (INSPIRE Good Practices). This new generation of APIs are open to a much wider public for reuse.

- Follow the broad European developments in the field of API implementation and ensure that the Dutch API interests are guaranteed.

# Factsheet historical data - requirements

- HVD theme **Earth observation and environment** includes "The most recent datasets and historical versions of datasets available in machine-readable format at all generalisation levels available up to the scale of 1 in 5 000 and covering the whole Member State combined."

- For the HVD theme **meteorological data,** the climate data contains validated observations 'All digitised historical data'.

- The HVD **statistical theme** is based on "the time series shall start no later than the date of application of the relevant legal act set out in the table".

# Factsheet historical data - question

The question is:

Does every change to the content of the data of the dataset result in a historical dataset?

In the case of data where the situation changes at a given time.

For datasets with measurement sequences, the data of that year can be seen as historical data after the end of one year.

# Factsheet historical data - response

- The above question was submitted to the Commission by e-mail. In their response (d. 8 November 2022), they indicate that the approach to historical data is likely to vary by sector.

- The approach may also differ between Member States within one sector as the purpose of the Implementing Regulation is not to disrupt the way in which relevant public authorities manage their data.

- Several fora of relevant sectoral experts are a good starting point to insist on a more harmonised approach in the given sectors.

# Factsheet historical data - advise

- The HVD **statistical theme** shall be based on the requirements set out in the relevant legislation and a start date for time series at the latest by the date on which it applies. Advice is to follow these requirements, and if machine readable data that goes further back also make them available.

- No legal frameworks have been provided for the climate observations in the HVD **theme Meteorological** data and the HVD theme **Earth observation and the environment**. Given that the management of the data by public authorities is different and does not need to be adapted, the data can be unlocked in the same way as in the Member State.

- **It is recommended that within the theme Earth observation and environment to agree on harmonisation historic data at EU level in order to facilitate re-use.**

# Metadata

- API terms of use

- API documentation

- The quality of service criteria in terms of performance, the capacity and its availability

- The datasets are denoted as high-value datasets in their metadata description

**Can we agree on a codelist and value to denote the dataset as high-value datasets ?**

# Metadata

Webinar dedicated to the introduction of DCAT-AP for High-Value Datasets

- 24 February 2023, DG Connect and DG DIGIT

HVD theme Geospatial, Earth observation and environment and Mobility;

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.(IR metadata INSPIRE)

Proposed solutions by SEMIC;

https://github.com/SEMICeu/DCAT-AP/issues?q=is%3Aissue+is%3Aopen+label%3AHVD

**Can we work together to make sure we can use the INSPIRE metadata (ISO 19115) to provide the metadata in DCAT-AP HVD?**

# Bedankt!

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# Possible reuse principles INSPIRE implementation

Minimal impact on data providers:

- Make maximum use of the key registers and their national facilities: The administrator designated in the law/regulation responsible for implementation.

- Make maximum use of other national portals or centrally managed data collections: data-supplying bodies are responsible, but it is recommended that the relevant data be made accessible via the central national portal.

- Only unlocking the most suitable datasets instead of all datasets that occur under theme: The data provider is responsible for the implementation.