



# 78<sup>th</sup> MIG-T meeting

## Action 2.5 HVD and INSPIRE

*WebEx meeting, 17 May 2024*

# To refresh our memory

## Ambition level

*Action 2.5 should, whilst honouring the principles of use case driven data prioritisation and balanced interoperability approaches, aim at building a common understanding of the interaction of INSPIRE and HVD, developing a consensus on a common implementation roadmap **with the objective to maximise the reuse of the INSPIRE implementation for meeting HVD requirements.***

## Organisation and topics of work (in function of HVD reporting on 9 February 2025)

- 1. Alignment of technical rules, preferable through good practices. Drafting of fact sheets as implementation guidance. (core: Metadata, Network Services; Additional; historical data, granularity).
- 2. Further development of the list of priority datasets based on the HVD categories « Geospatial », « Earth Observation and Environment » and « Mobility ». (Summer 2024)
- 3. Alignment of rules for monitoring and reporting (Summer 2024).

# Progress

## Meetings

- 2 Subgroup meetings 17 November 2023 & 25 April 2024, dedicated session at INSPIRE Conference 2023
- Working group on GeoDCAT-AP led by the SEMIC group (DIGIT) kicked off in February 2024
  - 4 webinars ([introductory webinar](#), [second webinar on the revision of GeoDCAT-AP](#), third webinar on specific geo-aspects) topic in [77<sup>th</sup> MIG-T Meeting](#)
  - Presentations on approaches by IT, BE(FL), FI, ES + additional work on mapping ISO / DCAT-AP in other MS

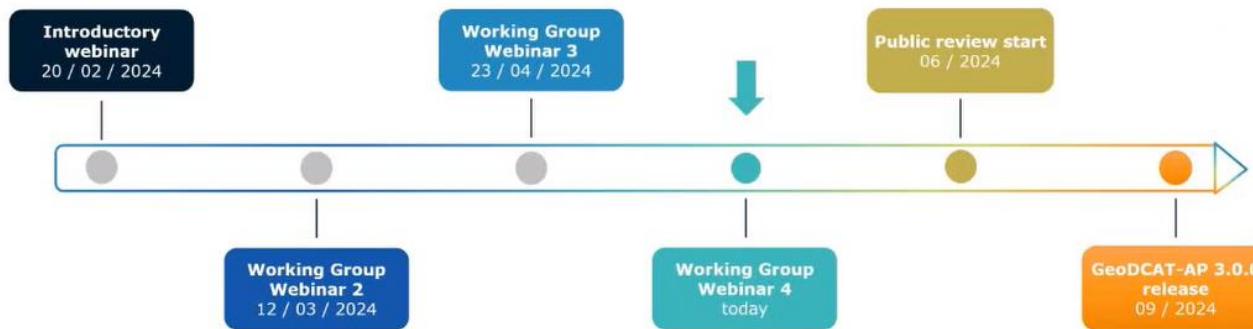
## Next steps

- SEMIC will prepare a draft GeoDCAT-AP 3.0 by end of June for public review and will also prepare guidance for the INSPIRE community.
- MIG-T survey to get consolidated national expert views/positions to guide the further development of a good practice for alignment.
- Subgroup meeting end of June/begin July to prepare good practice for the MIG.
- MIG meeting with participation of SEMIC, CNECT to present state of play and possibly approve the good practice for alignment.
- HVD-specific meetings: 4th June – Reporting HVD / 14th June – General information meeting

# SEMIC Working group on GeoDCAT-AP

## Outcome

- **New subproperties:**
  - `dcterms:conformsTo`
    - `geodcatap:serviceProtocol`
    - `geodcatap:referenceSystem`
  - `dct:subject`
    - `geodcatap:topicCategory`
  - `dct:type`
    - `geodcatap:serviceType`
    - `geodcatap:resourceType`
    - `geodcatap:serviceCategory`
- **Introduction of DatasetSeries:** contains all properties of a Dataset, still unclear what some of them mean for DatasetSeries (e.g. for Spatial Resolution)
- **Clarification of usage notes, cardinalities**
- **License/Rights mappings, label mappings**
- **If DCAT-AP 3.0 already implemented, only minimal effort required to be compliant with GeoDCAT-AP 3.0. Update from GeoDCAT-AP 2.0 to 3.0 is minor.**



➤ Please provide your additional feedback on GitHub.  
<https://github.com/SEMICEu/GeoDCAT-AP/issues>

➤ A new editor's draft will be created at  
<https://semiceu.github.io/GeoDCAT-AP/drafts/latest/>

➤ XSLT can be found and discussed on GitHub.  
<https://github.com/SEMICEu/iso-19139-to-dcat-ap>, dev branch

# Feedback received from subgroup

## Germany

- Consider INSPIRE ATOM/OpenSearch an API as prescribed under Open Data
- GitHub issues raised on accessibility, identification and licenses

## Finland - questions (disclaimer - the Court of Justice of the European Union is the Supreme authority to interpret EU law )

- **Is it by law only mandatory to update the dataset metadata with an indication that it is a HDV dataset?**

*Commission Implementing Regulation (EU) 2023/138, Art. 3 (5): “ Public sector bodies holding high-value datasets listed in the Annex shall ensure that the datasets are denoted as high-value datasets in their metadata description.”*

*Following the rules under HVD, HVD should be made available with an online reference to metadata and a persistent link to licensing conditions ensuring access to the high-value datasets through API and bulk download. GDCAT-AP 3.0 will be a good practice to facilitate reusing existing INSPIRE implementations to satisfy HVD rules. It should be clear which API/bulk download is serving HVD and what are the terms of use and the quality of service (see Art. 3 2023/138)*

- **Is it a recommendation to use the HDV category for interoperability reasons?**

*The HVD implementing Regulation is not specific on how HVD should be identified in metadata. It is a good practice / common implementation strategy.*

# Feedback received from subgroup

## Finland - continued

- **Is it a misunderstanding that it is mandatory also to update the service metadata? It is only mandatory IF you are using the recommended DCAT-AP-HVD metadata profile. Therefore it should be seen more like a recommendation.**

*It is a good practice / common implementation strategy.*

*The HVD implementing Regulation is not specific on how metadata should be encoded. DCAT-AP is a good practice / common implementation strategy in the Open Data community. Following the rules under HVD, HVD should be made available with an online reference to metadata and a persistent link to licensing conditions ensuring access to the high-value datasets through API and bulk download. It should be clear which API/bulk download is serving HVD and what are the terms of use and the quality of service (see Art. 3 2023/138).*

*Indicating through metadata that a service serves HVD facilitates the XSLT mapping of ISO to GeoDCAT-AP.*

# Feedback received from subgroup

## Finland - continued

- Is it a misunderstanding that it is mandatory to add the ELI-legislation reference link? It is only mandatory IF you are using the recommended DCAT-AP-HVD metadata profile. Therefore it should be seen more like a recommendation. If it is recommended also to use the ELI legislation reference, is the recommendation to add it as a thesaurus/keyword? Is there a European one to use? Can the Priority dataset one be updated (asap, please...)

*The HVD implementing Regulation is not specific on how HVD should be denoted in metadata. It is a good practice / common implementation strategy.*

*DCAT-AP-HVD: For HVD the value MUST include the ELI "http://data.europa.eu/eli/reg\_impl/2023/138/oj".  
As multiple legislations may apply to the resource the maximum cardinality is not limited.*

*Can be added as a keyword. XSLT will map this to "applicable legislation" property in GeoDCAT-AP.*

- Could you please stop us by sending out country-specific guidelines to our data providers to reach the 9 June deadline by in written saying that the deadline that matters is the one in February 2025?

HVD timeline: 09-02-2023: Entry into force    09-06-2024: Applicable    10-02-2025: First reporting    10-02-2027: Second reporting

- Dedicated meeting on HVD reporting on 4<sup>th</sup> June 2024
- Public information meeting on HVD on 14<sup>th</sup> June 2024 (will share meeting details)

# Towards a good practice

(for HVD compliance and automated reporting through metadata)

- Open issues for discussion/opinion:
- Reporting scenarios
  - GeoDCAT-AP strategy
  - Identification of HVD
  - Licensing
  - Accessibility
  - Tooling – XSLT



# HVD & INSPIRE monitoring and reporting 2025

- INSPIRE monitoring and reporting
  - **Business as usual for 2025**
  - 2026: depending on the outcome of GreenData4All
- HVD reporting for INSPIRE
  - Report list of HVD datasets with online reference to metadata + persistent link to licensing conditions and APIs ensuring access to the high-value datasets
  - Possible scenarios - **up to MS to decide**:
    1. data.europa.eu harvests all national, regional portals (geo and non-geo) (mapping based on GeoDCAT-AP for geo-portals)
    2. data.europa.eu harvests the national open data portal and the national geodata portal.
    3. data.europa.eu harvests national open data portal (incl. data from geo-portal)
    4. data.europa.eu harvests EU INSPIRE Geo-portal.
    5. data.europa.eu is not used to extract the list of HVD.

# GeoDCAT-AP Strategy

**What should be the ambition of the ongoing GeoDCAT-AP update: a mapping of INSPIRE metadata elements to satisfy HVD rules, or a full direct mapping of all INSPIRE metadata elements, or even a full mapping of ISO metadata standards to DCAT-AP?**

1. GeoDCAT-AP is derived from INSPIRE metadata.
  - It may aggregate and condense information from INSPIRE.
  - Doing so the conversion back from GeoDCAT-AP to ISO INSPIRE is cumbersome.
2. Use GeoDCAT-AP natively for INSPIRE metadata.
  - It must express INSPIRE metadata as precise as possible.
  - A two-way conversion from ISO INSPIRE to GeoDCAT-AP and from GeoDCAT-AP to ISO INSPIRE should be straight-forward.
3. Full compliant mapping of ISO to DCAT-AP Identification (Not in scope of MIG or SEMIC activities.)

# Identification of HVD

- INSPIRE Geoportal: Data themes + Tagging (PDS, IACS) to identify HVD datasets
- HVD DCAT-AP will use a [codelist](#) documented in VocBench (EU Publications Office registry) that describes HVD categories
  - This codelist probably will be extended with a second level identifying the specific datasets in the Annex. For INSPIRE this will be at the level of Data Themes. Further detailing to the level of specific datasets in scope is within the 2.5 subgroup mandate to further develop the list of priority datasets in line with HVD.

# Identification of HVD

## Good practice on identifying High-value datasets in INSPIRE metadata. How should HVD datasets be identified in INSPIRE metadata?

- Use INSPIRE PDS approach (given that all PDS are considered HVD)
  - Automatic mapping of INSPIRE metadata to HVD based on the INSPIRE Theme and PDS, IACS tagging – as in the INSPIRE geoportal, this will not be supported by the XSLT that SEMIC will provide
- Use HVD approach
  - document link to HVD Regulation + HVD category, metadata for HVD will have to be updated, you keep control on which datasets will be reported as HVD
  - Two options to declare the category in the metadata: free text (gco:CharacterString) or as a reference (gmx:Anchor). What would be your preferred approach.

# Licensing

**In HVD, licenses need to be structured and machine readable (no text, but and URI/IRI to a license register/codelist/online resource preferable to the EU Licence Named Authority List managed by OP for comparability and common understanding)**

- Only URI based licenses and access right should be allowed.
  - (Possible update of existing metadata, if not already using URI/IRI)
- Text should still be allowed.
  - (not aligned with the proposed HVD good practice and not supported by the planned tooling /XSLT)

# Accessibility

INSPIRed Network Service	API	Bulk download
OWS: WFS, WCS, SOS	X	X
OGC APIs: STA and OGC API-Features	X	X
INSPIRE ATOM/OpenSearch	?	X

**One major issue with impact on several countries: can INSPIRE ATOM/OpenSearch be considered an API as prescribed under Open Data? (Purely informative, as any discussion on compliance with Open Data will have to take place within the Open Data community).**

- No, INSPIRE ATOM/OpenSearch specifically satisfies INSPIRE Network Service rules but should not be considered an API as it does not implement the principle of creating an access layer on top of the data to not fully expose a data source but enable the sharing of small packets of data, relevant to a specific request. It should be considered a bulk download service.
- Yes, following the definition of an API in the Open Data Directive “An API is a set of functions, procedures, definitions and protocols for machine-to-machine communication and the seamless exchange of data. APIs should be supported by clear technical documentation that is complete and available online.”, INSPIRE ATOM/OpenSearch should be considered a valid API under Open Data rules.

# Tooling

## ISO – DCAT-AP XSLT mapping

- The XSLT will be updated by the SEMIC colleagues. The XSLT will not be able to map all metadata in a HVD compliant way. In this case manual correction of generated RDF will be needed.

### Possible issues

- Identifying HVDs: depending on outcome of the poll.
- Licenses: textual descriptions will not be supported, IRI should be used (preferably to EU License NAL).
- Identifiers: identifiers should be in the form of URIs, in INSPIRE metadata this is not always the case (e.g. in RS\_Identifier code and codespace are split up).
- The simplified linking approach to datasets and services will not be supported in the XSLT as there is no structured way to distinguish API from bulk download.

### How will you deal with these issues?

- We will manually correct the generated RDF in our national catalogue if needed.
- We will develop our own logic/tooling for INSPIRE/HVD metadata mapping.
- We will not deal with it for the moment. We will wait till after the first round of reporting to deal with possible issues.

# Thank you



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# HVD: identification DCAT-AP High Value Datasets

## For entities Dataset, Data Service and Distribution

Property	Range	Card	Definition	Usage
<a href="#">applicable legislation</a>	<a href="#">Legal Resource</a>	1..*	The legislation that mandates the creation or management of the <b>Data Service, Dataset, Distribution.</b>	For HVD the value <i>MUST</i> include the ELI <a href="http://data.europa.eu/eli/reg_impl/2023/138/oj">http://data.europa.eu/eli/reg_impl/2023/138/oj</a> . As multiple legislations may apply to the resource the maximum cardinality is not limited.

## For entities Dataset and Data Service

<a href="#">HVD category</a>	<a href="#">Concept</a>	1..*	The HVD category to which this Data Service belongs.
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