

ISO & GeoDCAT-AP pilot Updates

81st INSPIRE MIG-T, 14 February 2025

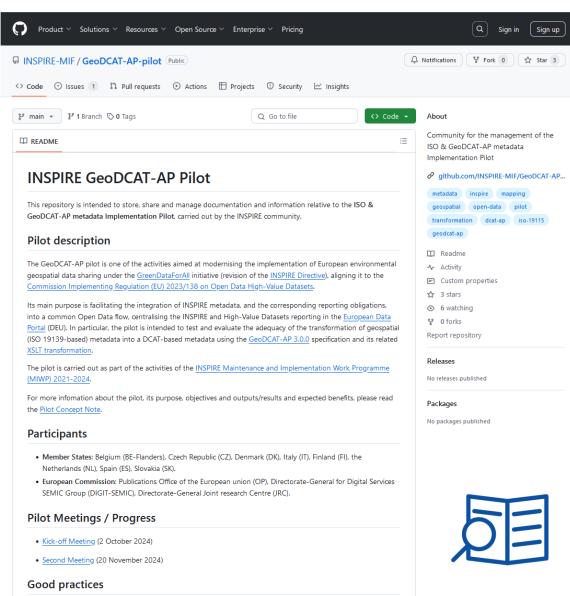
Jordi Escriu
European Commission, Joint Research Centre

Joint Research Centre

ISO & GeoDCAT-AP Pilot Collaborative activity

- Cross-community collaboration.
- Pilot meetings materials and documentation.
- Share issues and Good practices.
- GitHub repository for pilot management.

https://github.com/INSPIRE-MIF/GeoDCAT-AP-pilot/



Check the current good practices identified in the scope of the pilot here.

ISO & GeoDCAT-AP Pilot Participants



Member States

Contact points for the national geospatial catalogues, as users of GeoDCAT-AP to transform geospatial metadata.

Participants:



- Experts from the 'DCAT-AP schema plug-in integration in GeoNetwork' WG.
- Publications Office of the European Union (OP) / European Data Portal (data.europa.eu)

 Future receptor of GeoDCAT-AP metadata and transformation re-user.
- DG DIGIT SEMIC group

Point of contact for resolving and contributing to solutions in case potential issues.

DG JRC

Organiser of the pilot, and provider of scientific & policy knowledge.





Overview Latest Meeting – 3rd Meeting (23-01-2025)



Objectives

- Provide an overview of the Pilot status and ongoing activities.
- Clarify and refine the High-Value Datasets tagging good practice candidate.
- Share Pilot progress reports between participants (BE-Flanders, CZ, DK, FR, IT, FI, NL, ES, SK, OP, JRC)
- Discussions:
 - Agreement on an updated Timeline.
 - High-Value Datasets tagging good practice candidate.
 - Analysis, classification and potential integration of issues (for next meeting)
- Inform about the work on the DCAT-AP schema plugin for GeoNetwork, and call for testing (BE-Flanders organising).



ISO & GeoDCAT-AP Pilot Updated timeline



Work in progress



- Work is ongoing. Participants published their initial results on GitHub.
- Need to collaboratively analyse the outcomes. Potential integration.
- A First report will be delivered by March 2025.



High-Value Datasets tagging

Candidate good practice

State of play



GeoDCAT-AP 3.0.0 release for public review

Dear Community Member,

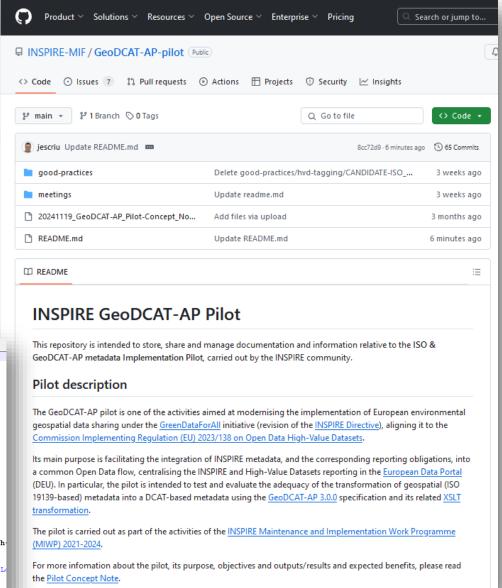
We are thrilled to announce that the GeoDCAT-APplication Profile 3.0.0 for geospatial portals in Europe is entering its public review (GeoDCAT-AP 3.0.0). This release for public review is the result of fruitful collaboration between <u>JRC</u>, <u>DG ENV</u>, SEMIC and the many contributors that participated during the <u>webinars</u> and on <u>GitHub</u> to align GeoDCAT-AP with DCAT-AP 3.0.0.

GeoDCAT-AP is an extension of DCAT-AP for describing elements defined in the core profile of ISO 19115:2003 ar

Its basic use case is to make spatial datasets, data series borders and sectors. This can be achieved by the exchan

GeoDCAT-AP 3.0.0 will be the latest version of the GeoD







Input examples identified

25-27 Nov. & 09-11 Dec. 2024

- Approaches:
 - Keyword-based: BE-Flanders, DE, DK, NL
 - Data Quality report-based: ES
- Encoding: mixes of 'gmx:Anchor' vs. 'gco:CharacterString'

Agreed decisions

- Approach:
 - Keyword-based (most commonly used)
- Scope Tagging of:
 - Referencing the High-value dataset keyword using the applicable legislation Mandatory
 - Thesaurus-based keyword for HVD Category
 - Thesaurus-based keyword for HVD Sub-Category

Mandatory: Provide either the Category OR the

Subcategory

Optional: Provide the other one

Encoding: Use 'gmx:Anchor' encoding + Allow use of ISO multi-lingual structure





Good practice candidate

'DCAT-AP schema plug-in integration in GeoNetwork & Testing Pilot GeoDCAT-AP' WG

HVD ISO Elements:

- Free keyword for Identification:
 - Link the EU applicable legislation using the 'High-value dataset' (or 'HVD') tag
- Thesaurus-Based Keyword(s) for HVD Categorization:
 - Category
 - Subcategory
 - Thesaurus Reference

Final candidate agreement

• **Sprint 4** (09-11 Dec. 2024)

Shared for potential endorsement

• **80**th **MIG-T** (13 Dec. 2024)

https://github.com/INSPIRE-MIF/GeoDCAT-AP-pilot/tree/main/good-practices/hvd-tagging

https://github.com/INSPIRE-MIF/GeoDCAT-AP-pilot/blob/main/good-practices/hvd-tagging/ISO_HVD_Tagging_Anchor_Non-Multilingual-clarification.xml

https://github.com/INSPIRE-MIF/GeoDCAT-AP-pilot/blob/main/good-practices/hvd-tagging/ISO_HVD_Tagging_Anchor_Multilingual-clarification.xml

LESO Multilingual & Non-multilingual options



HVD Free Keyword

Purpose:

To classify the dataset as a High-Value Dataset (HVD) and link it to the EU applicable legislation.

Key Elements:

- Keyword: Recommended use of the tag in English
 - <gmd:keyword> contains:

"High-value dataset" or "HVD"

- Anchor with Reference URL: Mandatory Anchor encoding and reference to the applicable legislation (URL)
 - <gmx: Anchor xlink:href="http://data.europa.eu/eli/reg_impl/2023/138/oj"> Links to the EU Implementing Regulation on High-value datasets.

Benefits:

- Ensures compliance with EU regulations.
- Provides semantic interpretation for metadata.

NOTE:

The HVD denotation is not a keyword published in a thesaurus, it is a reference to the legislation.



HVD Free Keyword – Examples

Mandatory

Recommended

```
<!-- HVD Free Keyword Section -->
<qmd:descriptiveKeywords>
    <qmd:MD Keywords>
       <!-- HVD Keyword -->
       <!-- Mandatory - Anchor encoding and reference to the applicable legislation (URL) / Recommended use of the
        tag 'High-value dataset' or 'HVD' in English -->
       <amd:kevword>
            <gmx:Anchor xlink:href="http://data.europa.eu/eli/reg_impl/2023/138/oj">High-value dataset</gmx:Anchor>
       </gmd:keyword>
    </amd:MD Keywords>
</gmd:descriptiveKeywords>
<!-- HVD Free Keyword Section -->
<gmd:descriptiveKeywords>
    <qmd:MD Keywords>
       <!-- HVD Keyword -->
       <!-- Mandatory - Anchor encoding and reference to the applicable legislation (URL) / Recommended use of the
       tag 'High-value dataset' or 'HVD' in English -->
       <qmd:keyword>
            <gmx:Anchor xlink:href="http://data.europa.eu/eli/reg_impl/2023/138/oj"> HVD 
       </gmd:keyword>
    </gmd:MD Keywords>
</gmd:descriptiveKeywords>
```





HVD Thesaurus-Based Keywords – 1

Purpose:

To provide a structured classification of the dataset using a controlled vocabulary (thesaurus).

Keywords:

Mandatory: Provide either the Category OR the Subcategory

Optional: Provide the other one

Category:

- <gmd:keyword> contains e.g.: Recommended use of the tag in the main language of the metadata
 - "Earth observation and environment"
- Reference: Mandatory (if Category is provided) Anchor encoding and the thesaurus value URL
 - http://data.europa.eu/bna/c_dd313021

Subcategory:

- <gmd:keyword> contains e.g.: Recommended use of the tag in the main language of the metadata
 - "Sea regions"
- Reference: Mandatory (if Subcategory is provided) Anchor encoding and the thesaurus value URL
 - http://data.europa.eu/bna/c_f399050e





HVD Thesaurus-Based Keywords – 2

Thesaurus Reference:

<gmd:thesaurusName> provides metadata for the controlled vocabulary.

Details:

- Thesaurus Title:
 - <gmx:Anchor>: http://data.europa.eu/bna/asd487ae75
 - "High-value dataset categories"
- Publication Date:
 - <gco:Date>: 2023-09-27
- Date Type:
 - <gmd:CI_DateTypeCode>: publication

Benefits:

- Ensures precise categorization and link to the thesaurus.
- Supports semantic interoperability with EU HVD standards.

- Mandatory Anchor encoding and thesaurus URL
- Recommended use of the tag in English (even in multilingual metadata)
- Recommended date value, date type 'publication'
- Note: the date value has been corrected

NOTE:

There are currently no translations of the name of the High-value dataset categories thesaurus



HVD Thesaurus-Based Keywords – Example

<!-- HVD Thesaurus-Based Keywords Section -->

</gmd:MD Keywords>

</amd:descriptiveKevwords>

Mandatory

Recommended

```
<qmd:descriptiveKeywords>
   <gmd:MD Keywords>
       <!-- Mandatory: Provide either the HVD Category OR the HVD Subcategory -->
       <!-- Optional: Provide the other one -->
       <!-- HVD Category Keyword -->
       <!-- Mandatory (if Category is provided) - Anchor encoding and the thesaurus value URL / Recommended use of the tag in the main language of the
       <gmd:keyword>
           <gmx:Anchor xlink:href="http://data.europa.eu/bna/c dd313021">Earth observation and environment/gmx:Anchor>
       <!-- HVD Subcategory Keyword-->
       <!-- Mandatory (if Subcategory is provided) - Anchor encoding and the thesaurus value URL / Recommended use of the tag in the main language of the
       metadata -->
       <qmd:keyword>
           <qmx:Anchor xlink:href="http://data.europa.eu/bna/c f399050e">Sea regions/qmx:Anchor>
       </gmd:keyword>
       <!-- Thesaurus Reference -->
       <qmd:thesaurusName>
           <md:CI Citation>
                   <!-- Mandatory Anchor encoding and thesaurus URL / Recommended use of the Thesaurus name in English -->
                   <qmx:Anchor xlink:href="http://data.europa.eu/bna/asd487ae75">High-value dataset categories
                </gmd:title>
               <qmd:date>
                   <qmd:CI Date>
                           <gco:Date>2023-09-27</gco:Date>
                        </gmd:date>
                        <gmd:dateType>
                           <qmd:CI DateTypeCode codeList=</pre>
                           "http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO 19139 Schemas/resources/Codelist/ML gmxCodelists.xml#CI DateTypeCode
                           " codeListValue="publication"/>
                        </amd:dateTvpe>
                   </gmd:CI Date>
               </gmd:date>
           </gmd:CI Citation>
       </gmd:thesaurusName>
```





HVD Free Keyword – Multilingual Example

```
<qmd:language>
    <qmd:LanguageCode codeListValue="eng">English
</gmd:language>
<qmd:locale>
    <qmd:PT Locale id="nl">
        <qmd:languageCode>
            <qmd:LanguageCode codeListValue="dut"/>
       </gmd:languageCode>
    </gmd:PT Locale>
</gmd:locale>
<!-- HVD Free Keyword Section -->
<qmd:descriptiveKeywords>
    <qmd:MD Keywords xsi:type="gmd:PT_FreeText_PropertyType">>
        <!-- HVD Keyword -->
       <!-- Mandatory - Anchor encoding and reference to the applicable legislation (URL) / Recommended use of the tag
        'High-value dataset' or 'HVD' in English -->
        <qmd:keyword>
            <qmx:Anchor xlink:href="http://data.europa.eu/eli/reg impl/2023/138/oj">High-value dataset/qmx:Anchor>
            <qmd:PT FreeText>
                <qmd:textGroup>
                   <qmd:LocalisedCharacterString locale="#nl">High-value dataset/qmd:LocalisedCharacterString>
               </amd:textGroup>
            </gmd:PT FreeText>
        </amd:keyword>
    </gmd:MD Keywords>
</gmd:descriptiveKeywords>
```

Mandatory

Recommended



<!-- HVD Thesaurus-Based Keywords Section -->



HVD Thesaurus-Based Keywords – **Multilingual Example**

Mandatory

Recommended

```
<qmd:descriptiveKeywords>
   <qmd:MD Keywords>
       <!-- Mandatory: Provide either the HVD Category OR the HVD Subcategory -->
       <!-- Optional: Provide the other one -->
       <!-- HVD Category Keyword -->
       <!-- Mandatory (if Category is provided) - Anchor encoding and the thesaurus value URL / Recommended use of the tag in the main language of the
       <qmd:keyword xsi:type="gmd:PT FreeText PropertyType">
           <qmx:Anchor xlink:href="http://data.europa.eu/bna/c dd313021">Earth observation and environment/qmx:Anchor>
               <gmd:textGroup>
                  <gmd:LocalisedCharacterString locale="#nl">Aardobservatie en milieu</gmd:LocalisedCharacterString>
               </gmd:textGroup>
           </gmd:PT FreeText>
       </amd:kevword>
       <!-- HVD Subcategory Keyword-->
       <!-- Mandatory (if Subcategory is provided) - Anchor encoding and the thesaurus value URL / Recommended use of the tag in the main language of the
       <amd:keyword>
           <gmx:Anchor xlink:href="http://data.europa.eu/bna/c f399050e">Sea regions</gmx:Anchor>
           <gmd:PT FreeText>
               <amd:textGroup>
                  <qmd:LocalisedCharacterString locale="#nl">Zeegebieden/qmd:LocalisedCharacterString>
               </amd:textGroup>
           </gmd:PT FreeText>
       </gmd:keyword>
       <!-- Thesaurus Reference -->
       <qmd:thesaurusName>
           <qmd:CI Citation>
               <qmd:title xsi:type="gmd:PT FreeText PropertyType">>
                  <!-- Mandatory Anchor encoding and thesaurus URL / Recommended use of the Thesaurus name in English (even if multi-lingual metadata -
                  Reason: No translations of this name are available) -->
                   <gmx:Anchor xlink:href="http://data.europa.eu/bna/asd487ae75">High-value dataset categories</gmx:Anchor>
                     md:PT FreeText>
                      <qmd:textGroup>
                          </amd:textGroup>
                  </amd:PT FreeText>
               </amd:title>
               <amd:date>
                  <md:CI Date>
                      <qmd:date>
                          <gco:Date>2023-09-27</gco:Date>
                      </gmd:date>
                       <qmd:dateType>
                          <qmd:CI DateTypeCode codeList=</pre>
                          "http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO 19139 Schemas/resources/Codelist/ML gmxCodelists.xml#CI DateTypeCode
                          " codeListValue="publication"/>
                      </gmd:dateType>
                  </gmd:CI Date>
              </gmd:date>
           </gmd:CI Citation>
       </gmd:thesaurusName>
   </amd:MD Keywords>
</gmd:descriptiveKeywords>
```

Voting status by INSPIRE MIG-T

Currently under vote for potential endorsement.

- Initiated on 19 Dec. 2024.
- 13 Member States / countries voted: BE, HR, CY, CZ, EE, FI, IE, IT, NL, NO, RO, SK, ES.
- Received so far: 12 positive votes / 1 vote against endorsement.

Voting procedure

To be further extended, at least until 28 February 2025.

Vote here!



ISO & GeoDCAT-AP Pilot Next steps



Main objectives

- Provide a first draft of the Pilot report, including the outcomes gathered from all progress reports delivered by participants.
- Analyse the issues (recently(posted on GitHub. Analyse their commonalities and classify them.
- Promote discussion in the next pilot meeting, for a joint reporting to SEMIC.

When?

- 4th Meeting to be scheduled by beginning of March 2025
- A pool will be sent soon.



Thank you

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