



23 February  
2024

# Revision of GeoDCAT-AP: A collaborative effort between DG ENV, JRC and SEMIC

interoperable  
europe

innovation ∞ govtech ∞ community

# GeoDCAT-AP

Basic use case: Make spatial datasets (services, series) **searchable on general data portals.**

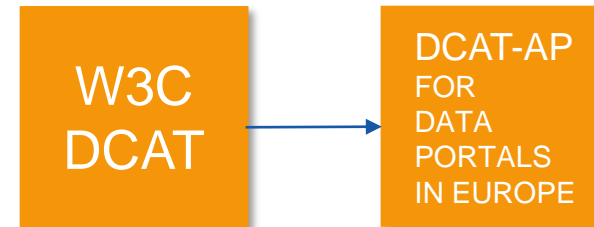
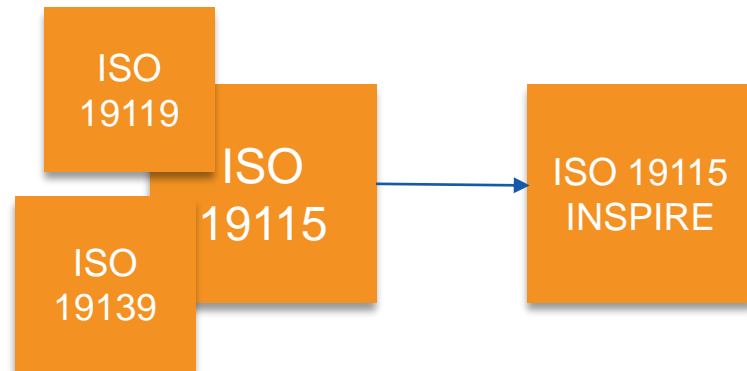
→ **improve findability** across borders and sectors.

Spatial data natively described by

- core profile of ISO 19115:2003 and ISO 19119
- INSPIRE metadata

General data portals use

- W3C DCAT
- DCAT-AP in Europe



# GeoDCAT-AP

GEODCAT-  
AP  
FOR  
GEOSPATIAL  
DATASETS

Basic use case: Make spatial datasets (services, series) **searchable on general data portals**.  
→ **improve findability** across borders and sectors.

Spatial data natively described by

- core profile of ISO 19115:2003 and ISO 19119
- INSPIRE metadata

General data portals use

- W3C DCAT
- DCAT-AP in Europe

**Current status:** GeoDCAT-AP 2.0.0 (**2020**)

aligned with W3C DCAT 2, DCAT-AP 2.0.1, INSPIRE Metadata Technical Guidelines 2.0.1

**Upcoming:** GeoDCAT-AP 3.0.0 (**2024**)

alignment with W3C DCAT 3, DCAT-AP 3.0, DCAT-AP HVD, INSPIRE Metadata Technical Guidelines 2.2.0



<https://semiceu.github.io/GeoDCAT-AP/releases/2.0.0>

# GeoDCAT-AP

GEODCAT-AP  
FOR  
GEOSPATIAL  
DATASETS

Basic use case: Make spatial datasets (services, series) **searchable on general data portals**.  
→ **improve findability** across borders and sectors.

Spatial data natively described by

- core profile of ISO 19115
- INSPIRE metadata

General data portals use

**GeoDCAT-AP does not replace** the INSPIRE  
Metadata Regulation nor the INSPIRE  
Metadata technical guidelines based on  
ISO 19115 and ISO 19119!

**Current status:** GeoDCAT-AP 2.0.0 (**2020**)

aligned with W3C DCAT 2, DCAT-AP 2.0.1, INSPIRE Metadata Technical Guidelines 2.0.1

**Upcoming:** GeoDCAT-AP 3.0.0 (**2024**)

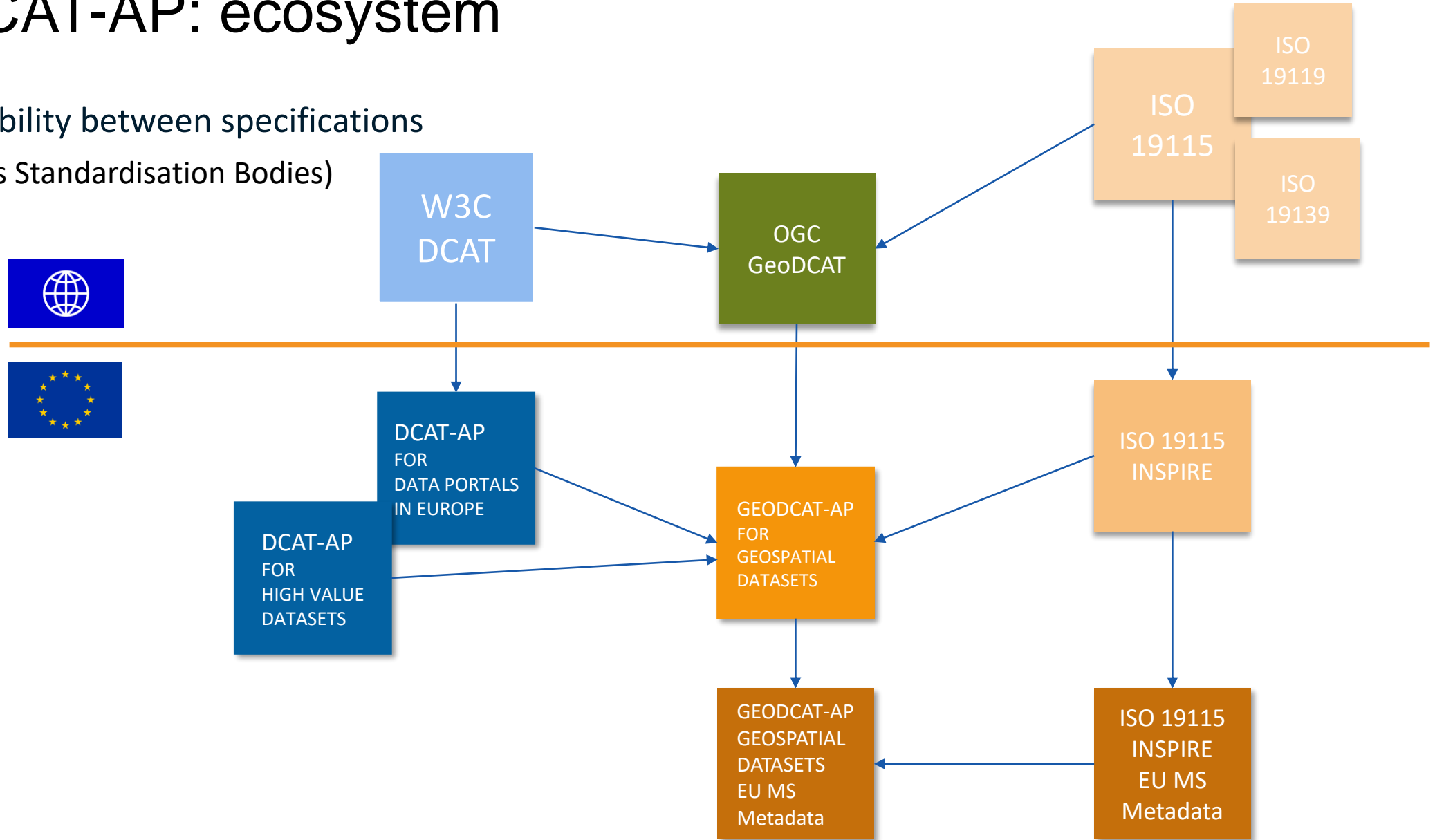
alignment with W3C DCAT 3, DCAT-AP 3.0, DCAT-AP HVD, INSPIRE Metadata Technical Guidelines 2.2.0



<https://semiceu.github.io/GeoDCAT-AP/releases/2.0.0/>

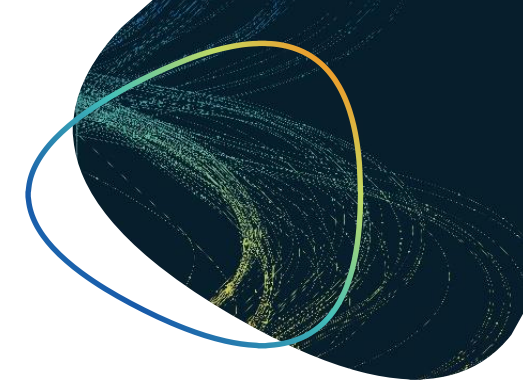
# GeoDCAT-AP: ecosystem

Interoperability between specifications  
(even across Standardisation Bodies)



# GeoDCAT-AP Supporting Tools

Feedback on (future) usage requested! ([#80](#))



## GeoDCAT-AP XSLT

- Reference implementation of the mappings defined in GeoDCAT-AP
- Converts INSPIRE / ISO 19115 into GeoDCAT-AP
- Can run in any tool supporting XSLT



## GeoDCAT-AP API

- Given a CSW endpoint, extracts all dataset descriptions according to the XSLT transformation in GeoDCAT-AP.
- Uses the Geo-DCAT-AP XSLT
- multiple RDF serializations output



## GeoIRI



## CSW-4 Web

- Publish content of a CSW endpoints
  - in web-friendly way
  - without need of specific client applications
- Uses *extended and ad-hoc version* of Geo-DCAT-AP XSLT & API



## EPSG-XSLT

- Converts entries from the OGC EPSG register of CRS into a GEO-DCAT-AP conformant representation
- Can be run in any tool supporting XSLT



## Measurement Resolution

# Collaboration on GeoDCAT-AP revision



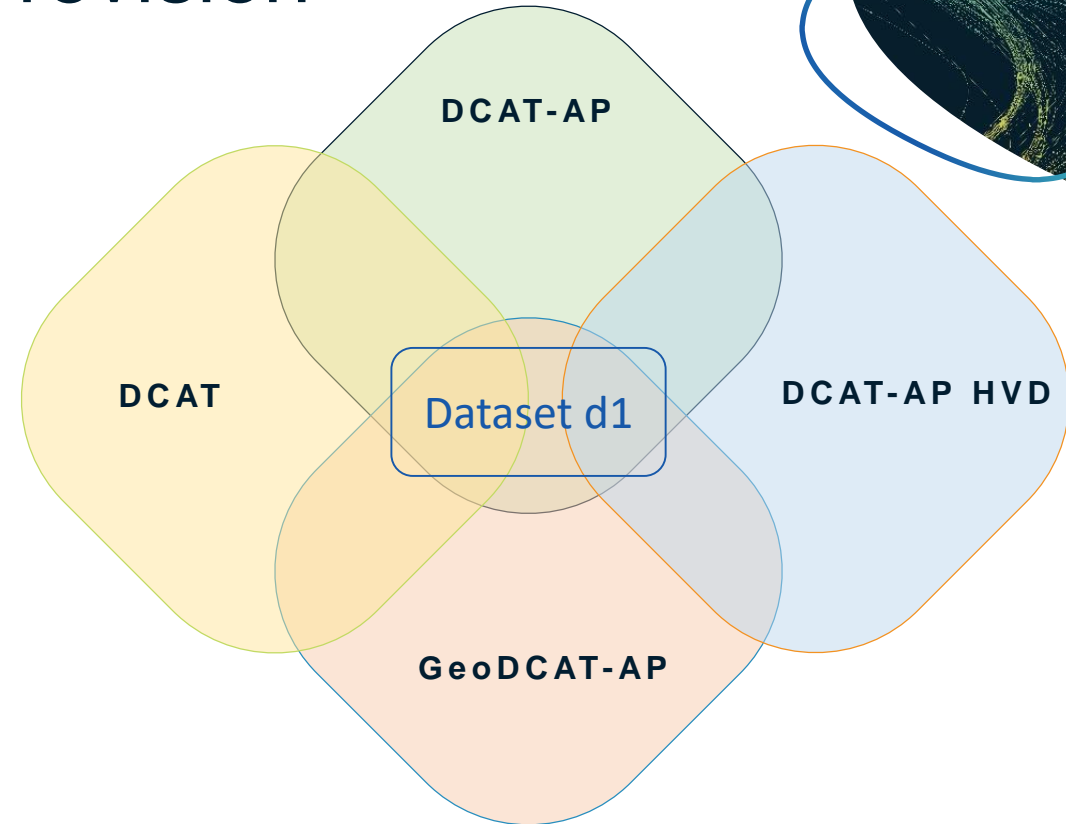
The revision of GeoDCAT-AP is a **collaborative** effort.

INSPIRE side:

- The Joint Research Centre (JRC)
- DG ENV

DCAT-AP side:

- SEMIC (DG DIGIT)



# GeoDCAT-AP 3.0.0: revision plan

Revision already started, see <https://github.com/SEMICeu/GeoDCAT-AP/issues>

## **Working Group Webinar 1 - Concerning generic organisation & findability (12/03/2024 10:00-12:00 CET)**

- Datasets, Distributions and their relationships
- Categories (alignment with DCAT-AP 3.0): keywords, categories, themes

## **Working Group Webinar 2 – specific geo-aspects (23/04/2024)**

- Geospatial coverage & resolution
- Coordinate reference systems & spatial representation type

## **Working Group Webinar 3 – relationship with INSPIRE**

- GeoDCAT-AP related tools such as XSLT

We are interested in which issues you are facing and we encourage you to post them as issues on the [GeoDCAT-AP GitHub repository](#).



## Next steps



Please provide your input 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/>



GeoDCAT-AP mapping to HVD will be done as a separate document



**Your participation is essential.**



# interoperable europe

innovation ∞ govtech ∞ community

Stay in  
touch



[\(@InteroperableEU\) / Twitter](#)



[Interoperable Europe - YouTube](#)



[Interoperable Europe | LinkedIn](#)



[DIGIT-INTEROPERABILITY@ec.europa.eu](mailto:DIGIT-INTEROPERABILITY@ec.europa.eu)



<https://joinup.ec.europa.eu/collection/interoperable-europe/interoperable-europe>