ISO & GeoDCAT-AP metadata implementation pilot

**European Commission SEMIC Group (DG DIGIT), DG JRC, Publications Office of the European Union
& Member States**

Publications Office (OP), con terra

Phase2 Kick-off Meeting

December 5, 2025

ISO 19139 to GeoDCAT-AP: Where is the transformation taking place?

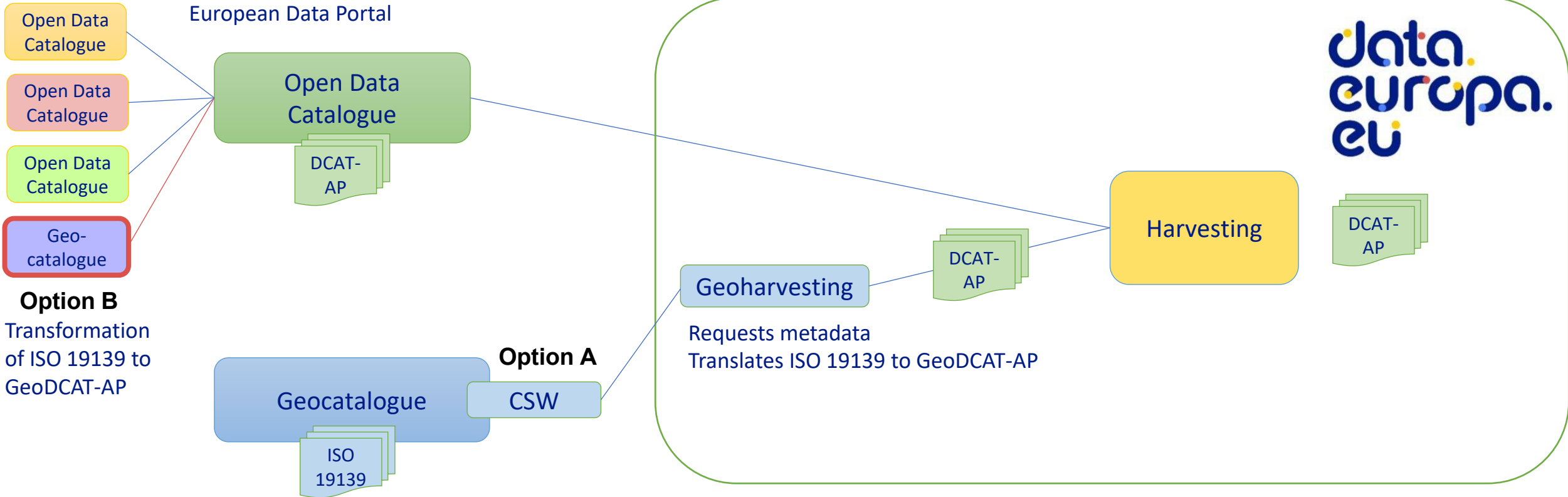## Option A: Geoharvester of the European Data Portal

- Requests metadata via CSW in ISO 19139 and translates it to GeoDCAT-AP
- Geocatalogue providers need to tag their HVD according to HVD tagging according to "anchor" proposal [1][2]

Option B: Deliver (Geo-)DCAT-AP to the European Data Portal

- Geocatalogue providers (or national open data portals harvesting them) are responsible for the transformation of their metadata

data.europa.eu
The official portal for European data

[1] https://dataeuropa.gitlab.io/data-provider-manual/hvd/annotation_in_geometadata/
[2] https://github.com/INSPIRE-MIF/GeoDCAT-AP-pilot/blob/main/good-practices/hvd-tagging/CANDIDATE-ISO_HVD_Tagging_Anchor_Non-Multilingual-clarification.xml

Harvesting for data.europa.eu

Some member states decide to only have the Open Data Catalogue be harvested by the European Data Portal

Open Data Catalogue

Open Data Catalogue

Open Data Catalogue

Geo-catalogue

Option B
Transformation of ISO 19139 to GeoDCAT-AP

Open Data Catalogue

DCAT-AP

Geocatalogue

CSW

Option A

ISO 19139

Geoharvesting

Requests metadata
Translates ISO 19139 to GeoDCAT-AP

DCAT-AP

Harvesting

DCAT-AP

data.europa.eu

data.europa.eu´s geoharvester (1)

- **Geoharvester transforms ISO 19139 to GeoDCAT-AP 3 including HVD tagging**
  - The geoharvester has its own XSLT
  - aligned to GeoDCAT-AP 3 since January 2025
  - HVD tagging according to "anchor" proposal [1][2]
- **Since last meeting**
  - Update to documentation [1]
  - Planned: Documentation of differences between EDP's geoharvester and SEMIC ISO13139 to DCAT-AP reference XSLT [3]

[1] https://dataeuropa.gitlab.io/data-provider-manual/hvd/annotation_in_geometadata/
[2] https://github.com/INSPIRE-MIF/GeoDCAT-AP-pilot/blob/main/good-practices/hvd-tagging/ISO_HVD_Tagging_Anchor_Non-Multilingual-clarification.xml
[3] https://github.com/SEMICeu/iso-19139-to-dcat-ap

data.europa.eu´s geoharvester (2)

- **Planned**

  - Alignment to new version of SEMIC ISO13139 to DCAT-AP reference XSLT [3]

  - Housekeeping, update of libraries

  - Support for dataset series

  - Distributions according to INSPIRE Good Practice on data service linking [4]

/rec/resource-locator-protocol

```
1  <gmd:protocol>
2      <gmx:Anchor xlink:href="http://www.opengis.net/def/docs/17-069r3">OGC API-Features</gmx:Anchor>
3  </gmd:protocol>
```

```
1  <gmd:protocol>
2      <gco:CharacterString>OGC API-Features</gco:CharacterString>
3  </gmd:protocol>
```

[3] https://github.com/SEMICeu/iso-19139-to-dcat-ap
[4] gp-data-service-linking-simplification/good-practice/data-service-linking-simplification-spec.md at main · INSPIRE-MIF/gp-data-service-linking-simplification

Pilot report
Publication Office (OP), con terra

- **Phase 1 – Feedback**

    - How to improve the pilot in Phase 2: issues, gaps, what to be changed / improved.

- **Phase 2 – Expectations**

    - Briefly comment what you expect to contribute and get in this new phase.

  - We are hoping to find solutions to known difficulties in the transformation of ISO19139 to GeoDCAT-AP (e.g. formats in ISO19139 not corresponding to a distribution).

  - These solutions should be generally accepted in order to be implemented in the geoharvester