



Practicing FAIRness for geospatial and cross-border data -  
Lessons learnt and experiences from the GO-PEG project



# Trends and challenges in sharing geospatial data on data.europa.eu

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# data.europa.eu

- The official portal for European data
- Single point of access to open data in Europe
- Strategic objective is to
  - improve accessibility of open data
  - provide a central point of knowledge on open data

The screenshot shows the homepage of data.europa.eu. At the top, there's a banner with the European Commission logo and a link to 'An official website of the European Union - How do you know?'. The main navigation menu includes Home, Datasets, Documentation, Publications, data.europa academy, News & events, and Contact us. A large blue callout box in the center says 'data.europa.eu academy' with a 'Find out more' button. Below it, there's a search bar and a dropdown menu for 'Datasets'. A large graphic on the right features a yellow circle with the text 'data europa academy'.

1 614 989	176	36
Datasets	Catalogues	Countries
European public sector datasets	Datasets grouped by catalogue	Explore datasets by country
1 355	189	11
News pieces	Data stories	Courses
News related to open data	Inspiring stories about open data	Learning material on open data

# data.europa.eu

- Includes metadata from 176 catalogues
- from 36 countries
- Descriptions of more than 1.5 Mio. datasets

*Challenge:  
How to make this number of datasets searchable/browsable?*

The screenshot shows the data.europa.eu homepage. At the top, there's a banner with the European Commission logo and links for Log in and English. Below the banner, the page title is "data.europa.eu - The official portal for European data". A navigation bar includes Home, Datasets, Documentation, Publications, data.europa academy, News & events, and Contact us. A large image of a smiling person holding a tablet is on the right. In the center, there's a section titled "Open Data Maturity in Europe" with a "Find out more" button. Below this is a search bar with a dropdown menu set to "Datasets". The main content area displays several statistics: 1 614 989 Datasets (European public sector datasets), 176 Catalogues (Datasets grouped by catalogue, highlighted with a red box), 36 Countries (Explore datasets by country), 1 355 News pieces (News related to open data), 189 Data stories (Inspiring stories about open data), and 11 Courses (Learning material on open data). A small "2 of 4" indicator is visible above the search bar.

# Harvesting

- Metadata is harvested from
  - Open Data Catalogues
  - Geocatalogues
- Catalogue providers
  - EU Institutions
  - European Countries
    - National, regional, thematic
  - International institutions



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data.europa.eu - The official portal for European data

Home Datasets Documentation Publications data.europa academy News & events Contact us

Home > Catalogues

## Catalogues

Filter by

Provenance: EU institutions

Search Catalogues

Catalogues found (98) Sort by: Relevance

Countries: EU institutions

Clear filters

EUMETSAT Product Navigator

Meteo Data Portal Europe

OpenDataScienceEurope

OpenDataScienceEurope Metadata catalogue

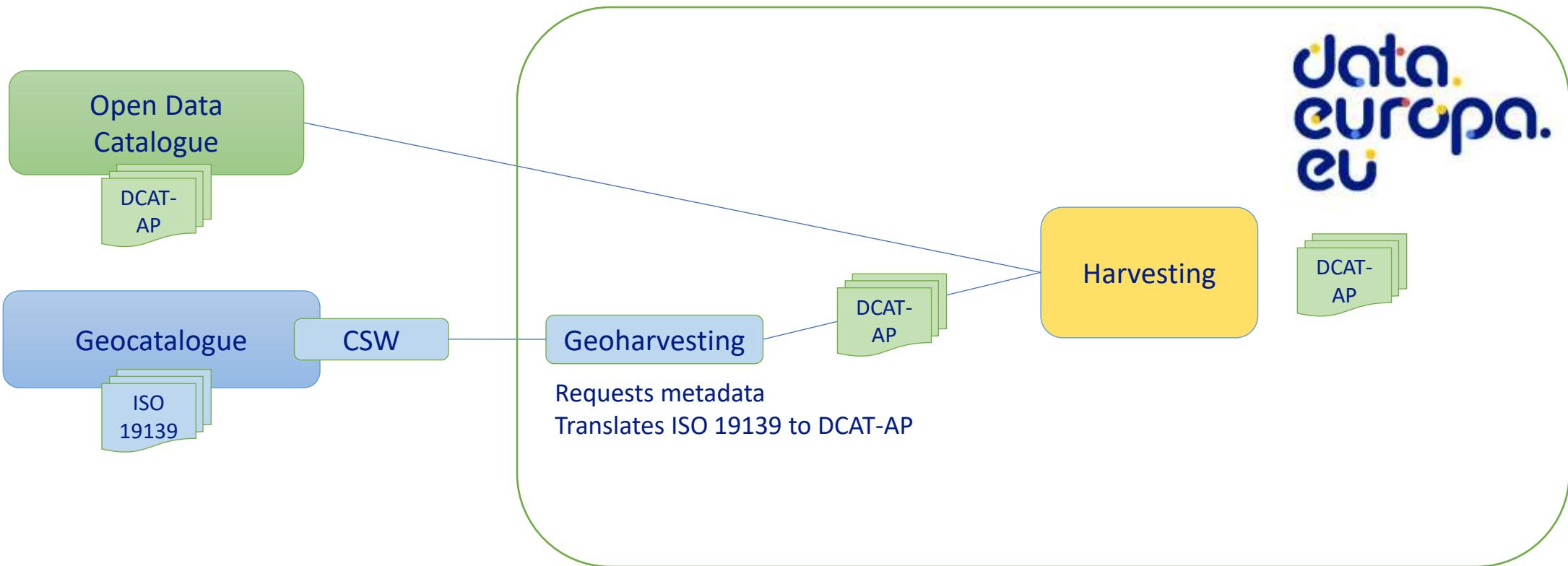
OpenAIRE

Science. Set Free.

A screenshot of the data.europa.eu website's catalogues section. At the top, there's a navigation bar with links for Home, Datasets, Documentation, Publications, data.europa academy, News & events, and Contact us. Below that is a breadcrumb trail: Home > Catalogues. The main area has a heading 'Catalogues' and a 'Filter by' section with a dropdown menu set to 'EU institutions'. To the right is a search bar with 'Catalogues' selected in the dropdown. Below the search bar, it says 'Catalogues found (98)' and 'Sort by: Relevance'. There's also a 'Countries' dropdown set to 'EU institutions'. A 'Clear filters' button is located below the filters. Further down, there are links to other catalogues: 'EUMETSAT Product Navigator' (with a Meteo Data Portal Europe logo), 'OpenDataScienceEurope' (with a logo showing a globe and the text 'OpenDataScienceEurope Metadata catalogue'), and 'OpenAIRE' (with a logo showing a blue square and the text 'Science. Set Free.').

# Harvesting

*Challenge:*  
*Metadata from many different sources*



# Harvesting: Challenges

- Large number of catalogues with different languages, different update cycles ...
- Metadata comes from many different sources – both open data and geocatalogues
- Geo-metadata (ISO 19139) is different from Open Data (DCAT-AP)
  - Geo-metadata has more information
  - Geo-metadata can describe datasets or *services*
  - Concept of „services“ does not exist in DCAT-AP

# Trends in geospatial data

- Annual exercise: Discuss current trends in the geospatial community
  - *What opportunities for data.europa.eu might arise from these trends?*
  - *How can data.europa.eu benefit from and support new ways of sharing geospatial data?*

- Report

Geospatial trends report 2022:

<https://data.europa.eu/en/news-events/news/geospatial-trends-2022-overview-emerging-trends-geospatial-community>

# Topics of interest for data.europa.eu

- High Value Datasets (HVD)
- Evolution of INSPIRE
- OGC API
- Smart Cities and real-time data
- Data Spaces
- Artificial intelligence, GeoAI

What current trends regarding geospatial topics come to mind?

135 



# Thank you!

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