

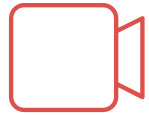
WEBINAR

data.
europa
academy 

Webinar on Geospatial Harvesting on data.europa.eu

- 29 November 2022
- 10.00 – 11.00 CET

Rules of the game



The webinar will be recorded



Please mute yourselves during the webinar

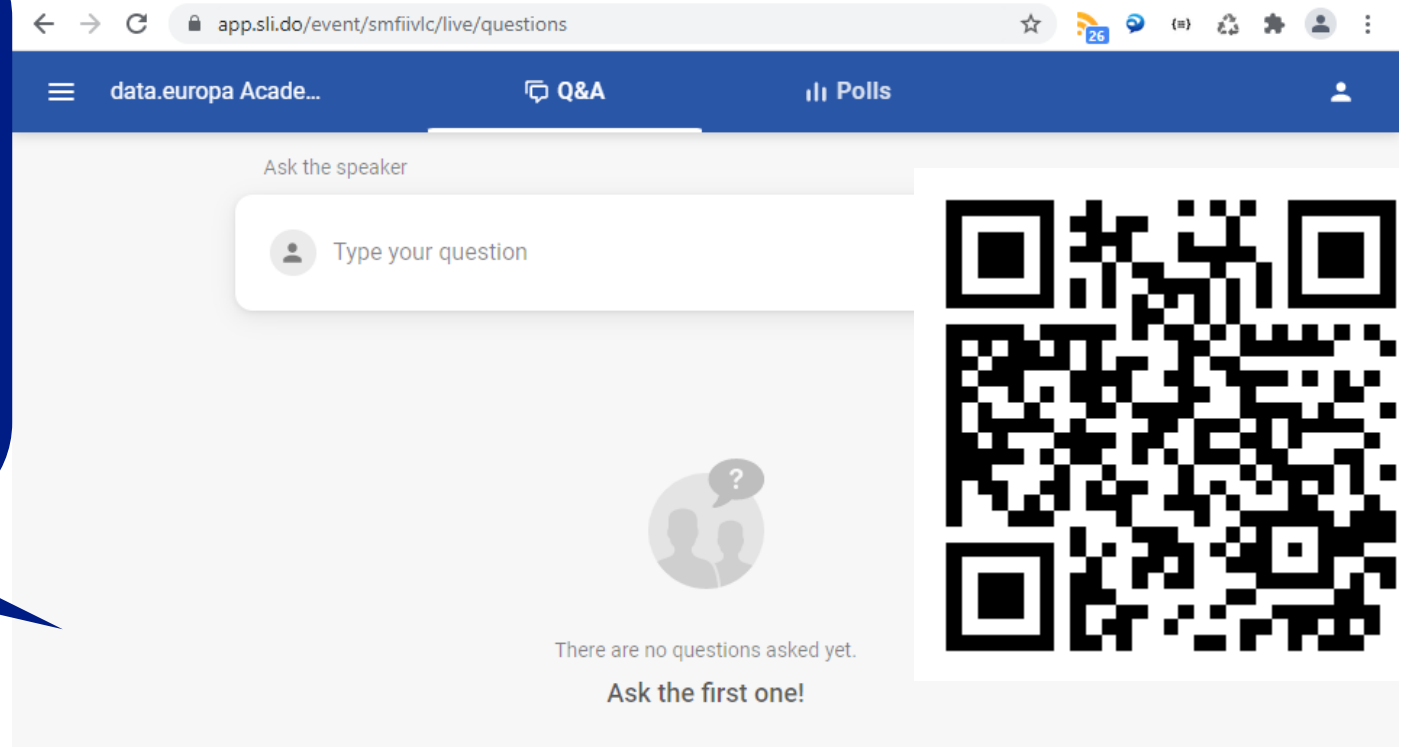
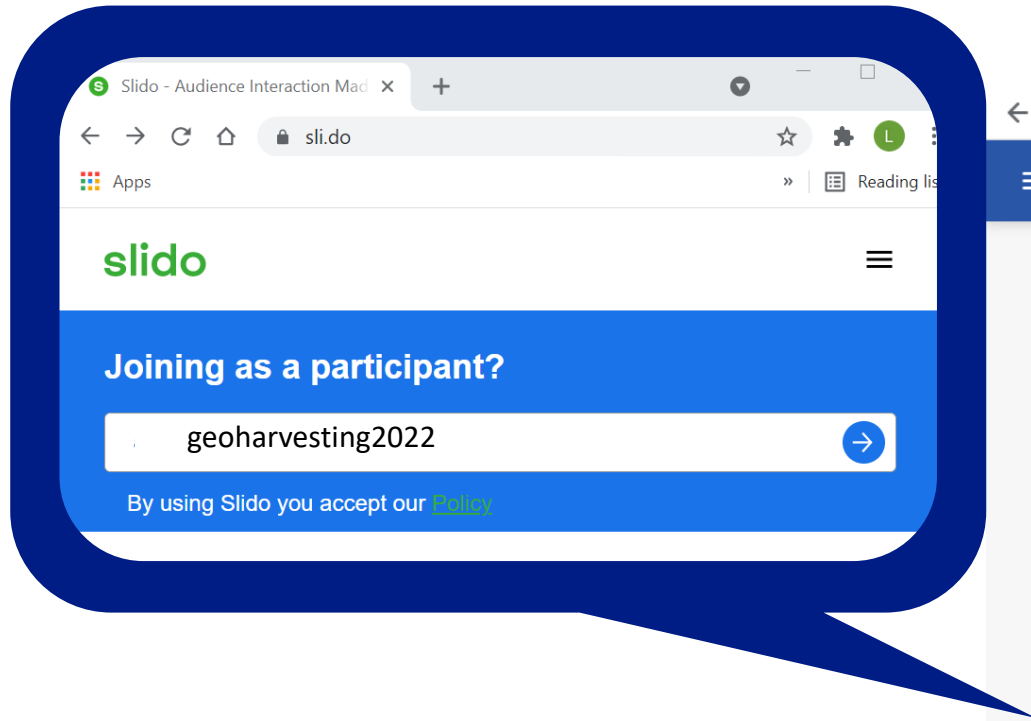


Please reserve 3 min after the webinar to help us improve and plan for 2023 by filling in our feedback form



For questions, please use [sli.do](#). Vote for the questions that are of most interest to you, those will be discussed later

Ask your questions in sli.do using the code *geoharvesting2022*



Introduction



Giulia Carsaniga
Research and
communication
consultant for
data.europa.eu



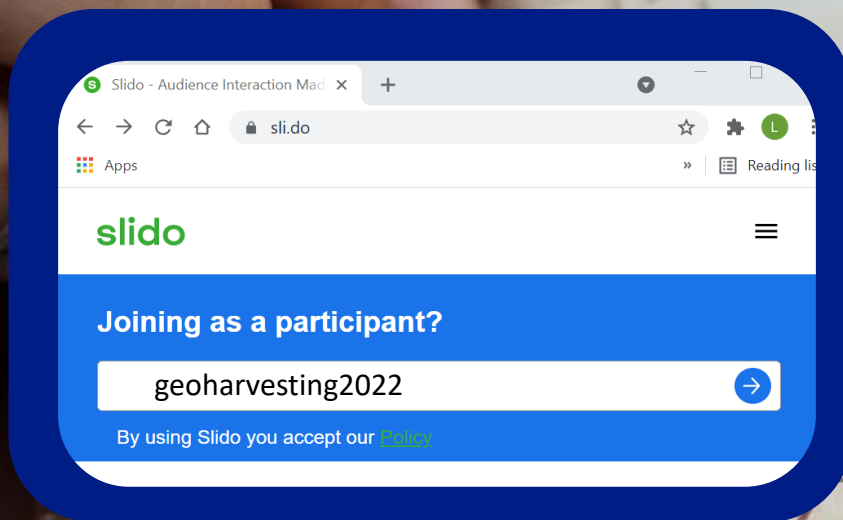
Dr. Thore Fechner
con terra
Head of Team
Open Data and Copernicus



Jan van Zadelhoff
con terra
Software-Engineer
Open Data and
Copernicus

Which country are you in
right now?

Please go to sli.do
and enter *geoharvesting2022*



slido



Which country are you joining from?

Agenda



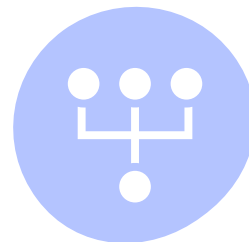
Introduction & goal of the webinar



Geospatial data on data.europa.eu



The geo-harvesting process



Q&A



Summary & feedback



Agenda



**Introduction & goal of
the webinar**



Agenda



Introduction & goal of
the webinar



Geospatial data on
data.europa.eu



data.europa.eu

- data.europa.eu provides access to open data
- Single access point to open data in Europe
- Strategic objective is to improve accessibility of open data

The screenshot shows the homepage of data.europa.eu. At the top, there is the European Commission logo and navigation links for 'Log in' and 'English'. Below this is a dark blue header with the text 'data.europa.eu - The official portal for European data' and a navigation menu with items: Home, Datasets, Documentation, Publications, data.europa academy, News & events, and Contact us. The main banner features the 'EU Datathon 2022' event with a 'Find out more' button and an illustration of colorful cubes with faces. Below the banner is a search bar with a 'Search' input field, a 'Datasets' dropdown menu, and a search icon. At the bottom, there are six statistics presented in a grid:

1 544 860 Datasets European public sector datasets	176 Catalogues Datasets grouped by catalogue	36 Countries Explore datasets by country
1 318 News pieces News related to open data	180 Data stories Inspiring stories about open data	37 Courses Learning material on open data

data.europa.eu

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

An official website of the European Union | How do you know? ▾

European Commission

Log in English

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

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

EU Datathon 2022

Find out more >

Search Datasets ▾ 🔍

1 544 860 Datasets European public sector datasets	176 Catalogues Datasets grouped by catalogue	36 Countries Explore datasets by country
1 318 News pieces News related to open data	180 Data stories Inspiring stories about open data	37 Courses Learning material on open data

Harvesting

- Metadata is harvested from
 - Open data catalogues
 - Geocatalogues
- Catalogue providers
 - EU Institutions (e.g. Eurostat)
 - European Countries
 - National, regional, thematic
 - International institutions

Catalogues

Filter by

Provenance

Luxembourg

Clear filters

Search

Catalogues



Catalogues found (2)


Sort by: Relevance

Provenance: lu x

La plateforme de données luxembourgeoise

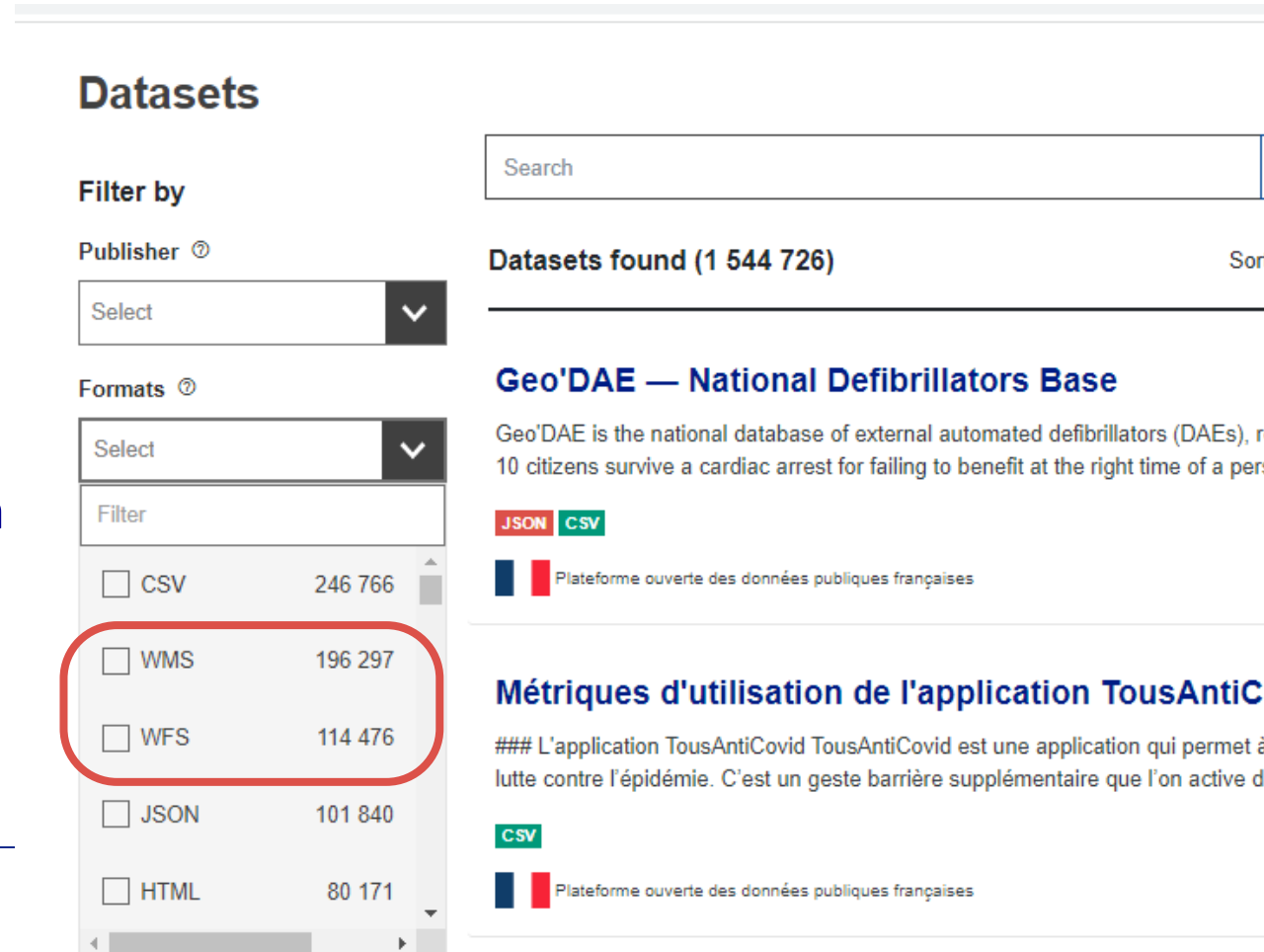
 Open Data Portal Luxembourg

Geoportal of the Grand-Duchy of Luxembourg

 Geo Data Portal Luxembourg

What kind of geospatial data can be found on data.europa.eu?

- Geoservices, e.g.
 - OGC Web Map Services (WMS)
 - OGC Web Feature Services (WFS)
- Geodata, e.g.
 - GeoJSON, Shapefile, GPX, GeoTiff, GeoPackage, GML, KML
- Data with direct or indirect spatial information
 - coordinates
 - indirect geospatial information (e.g. addresses, postal codes, or municipality identifier)



The screenshot shows the 'Datasets' section of the data.europa.eu website. It includes a search bar, a 'Filter by' section with dropdown menus for 'Publisher' and 'Formats', and a table of search results. The 'Formats' dropdown is open, showing a list of data formats with their respective counts. The 'WMS' and 'WFS' entries are highlighted with a red circle. To the right, a search result for 'Geo'DAE — National Defibrillators Base' is visible, including a description and download options for JSON and CSV.

Format	Count
CSV	246 766
WMS	196 297
WFS	114 476
JSON	101 840
HTML	80 171

Metadata schemas

Open Data Catalogues

- DCAT-AP - DCAT application profile for data portals in Europe
 - DCAT = Data Catalog Vocabulary, a W3C recommendation
 - GeoDCAT-AP is an extension of DCAT-AP for describing geospatial datasets, dataset series, and services.

Geo-Catalogues

- Dataset and service metadata (ISO 19139 / INSPIRE)
- Delivery via CSW endpoints
 - Catalogue Service for the Web (CSW) is an Opengeospatial Consortium (OGC) Standard

Agenda



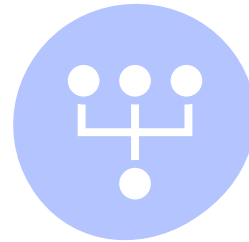
Introduction & goal of
the webinar



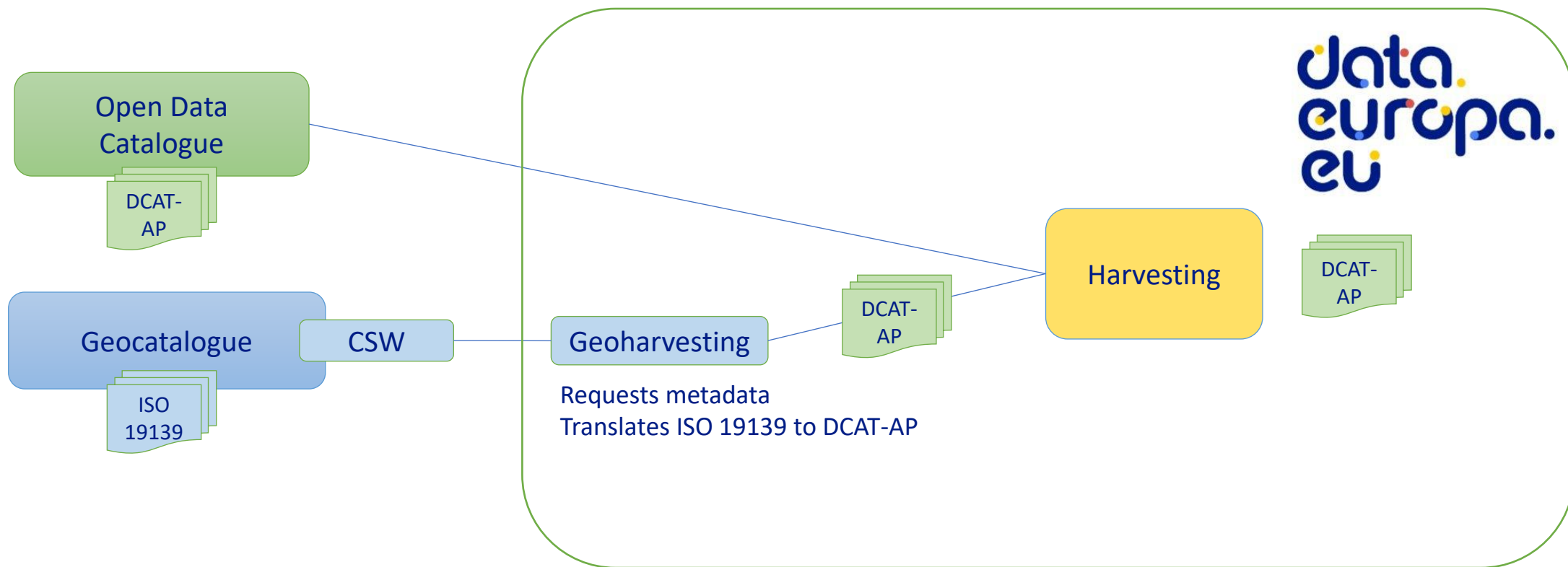
Geospatial data on
data.europa.eu



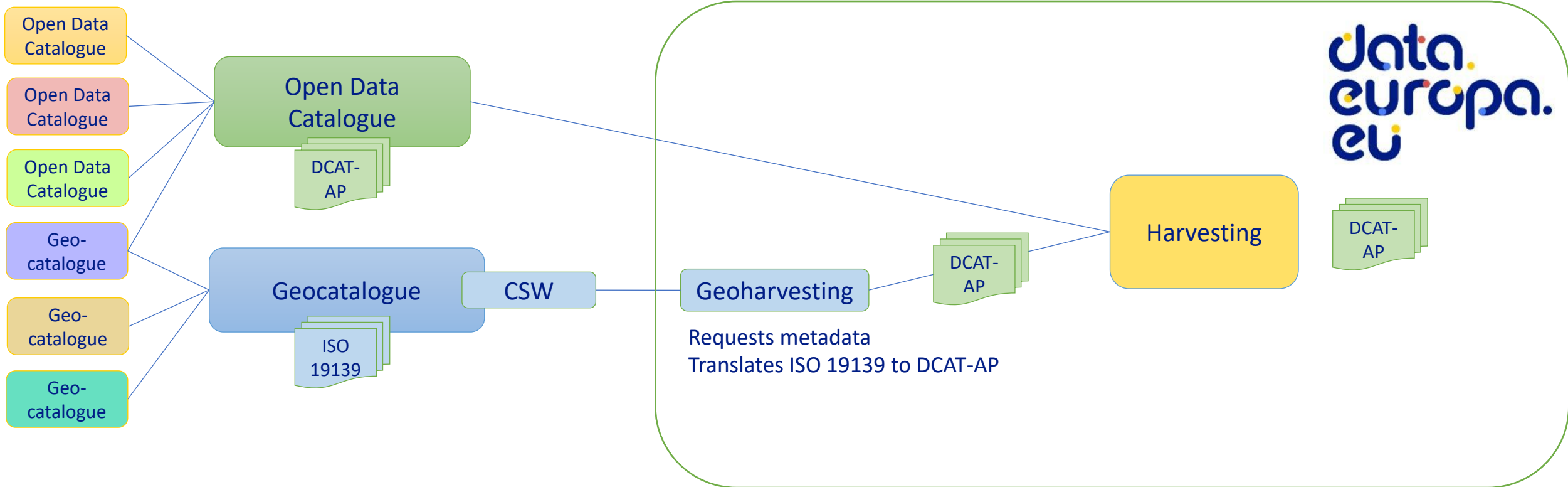
The geo-harvesting
process



Harvesting



Harvesting





The stations of a geo dataset

Photo by [m.](#) on [Unsplash](#)

Follow one dataset from data.europa.eu to its source

The screenshot shows the data.europa.eu website interface. At the top, there is the European Commission logo, a login button, and a language selector set to English. A search bar is present with the text 'Search datasets' and a 'Search' button. Below this is a dark blue navigation bar with the text 'data.europa.eu - The official portal for European data' and a menu with items: Home, Datasets, Documentation, Publications, data.europa academy, News, and Contact us. The breadcrumb trail reads: Home > Datasets > Federal Agency for Nature Conservation: Main reproductive area porpoises (WMS). The main content area features a 'Dataset' label, the title 'Federal Agency for Nature Conservation: Main reproductive area porpoises (WMS)', and the country code 'GDI-DE'. There are buttons for 'Dataset', 'Categories', 'Quality', and 'Similar datasets'. To the right, there are links for 'Dataset feed', 'Linked data', and 'Cite'. A detailed description of the dataset is provided, along with a metadata table.

Dataset Federal Agency for Nature Conservation: Main reproductive area porpoises (WMS)

GDI-DE

Dataset **Categories** **Quality** **Similar datasets**

[Dataset feed](#) [Linked data](#) [Cite](#)

Updated 31.01.2022

Spatial Coordinates: [[[3.615243, 47.141961], [3.615243, 55.910558], [15.715492, 55.910558], [15.715492, 47.141961], [3.615243, 47.141961]]]
Type: Polygon













Contact Points Organization Name: I 1.2
Naturschutzinformation, Geoinformation,
Open Data
E-Mail: naturschutzinformation@bfn.de
Address: Konstantinstraße 110, Bonn,
53179, Deutschland
URL: https://www.bfn.de

In the German North Sea, the porpoise is in its most sensitive reproductive phase in the period from May to August. At the same time, the population exhibits a significant concentration in an area northwest of Sylt (main concentration area). In order to ensure long-term adequate evasions for porpoises and to limit the disturbances for the population to the technically justifiable and legally permissible level, it is also necessary, in the particularly sensitive phase, to keep the main concentration area free from sound intensive construction measures where cumulatively more than 1 % of the area is located within the interference radius.

Originating thematic geocatalog

a46059c7-db4e-4f3e-8e0a-076f4. 🔍

1 Ergebnis

	Titel	Erstellt	Publiziert	Geändert
FILTER 	 DIENST Bundesamt für Naturschutz: Hauptfortpflanzungsgebiet Schweinswale (WMS)			LETZTE ÄNDERUNG 31. Jan. 2022 ERSTELLUNGSDATUM 15. Sep. 2021
Typ 	<p>In der deutschen Nordsee ist der Schweinswal im Zeitraum von Mai bis August in seiner sensibelsten Fortpflanzungsphase. Zugleich weist die Population eine deutliche Konzentration in einem Gebiet nordwestlich Sylt aus (Hauptkonzentrationsgebiet). Um dauerhaft ausreichende Ausweichmöglichkeiten für Schweinswale sicherzustellen und um die Störungen für die Population auf das fachlich vertretbare und rechtlich zulässige Maß zu begrenzen, ist es in der besonders sensiblen Phase zusätzlich erforderlich, das Hauptkonzentrationsgebiet von schallintensiven Baumaßnahmen freizuhalten, bei denen sich</p>			
Dienst 	<p>Öffentlich   </p>			
Kategorie 				
Schlüsselwörter 				
Katalog 				
Herausgeber 				
Lage 				

Federal Agency for Nature Conservation (BfN)


<https://metadaten.bfn.de/BfN-MetaCat/?lang=de#/datasets/iso/a46059c7-db4e-4f3e-8e0a-076f4a74e3af>

Originating thematic geocatalog xml

```
<gmd:MD_Metadata xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.opengis.net/gml/3.2 http://s
http://www.isotc211.org/2005/gmd http://
http://www.isotc211.org/2005/gco http://
http://www.isotc211.org/2005/srv http://
http://www.isotc211.org/2005/gmx http://

<gmd:fileIdentifier>
  <gco:CharacterString xmlns:gco="http://www.isotc211.org/2005/gco">a46059c7-db4e-4f3e-8e0a-076f4a74e3af</gco:CharacterString>
</gmd:fileIdentifier>
<gmd:language>
  <LanguageCode xmlns="http://www.isotc211.org/2005/gmd" codeList="http://www.loc.gov/standards/iso639-2/" codeListValue="ger" />
</gmd:language>
<gmd:characterSet>
  <MD_CharacterSetCode xmlns="http://www.isotc211.org/2005/gmd" codeList="http://standards.iso.org/iso/19139/resources/gmxCodelists.xml#MD_CharacterSetCode" codeListValue="utf8" />
</gmd:characterSet>
<gmd:hierarchyLevel>
  <MD_ScopeCode xmlns="http://www.isotc211.org/2005/gmd" codeList="http://standards.iso.org/iso/19139/resources/gmxCodelists.xml#MD_ScopeCode" codeListValue="service" />
</gmd:hierarchyLevel>
<gmd:hierarchyLevelName>
  <gco:CharacterString xmlns:gco="http://www.isotc211.org/2005/gco">Meeresnaturschutz</gco:CharacterString>
</gmd:hierarchyLevelName>
<gmd:contact>
  <gmd:CI_ResponsibleParty>
    <gmd:individualName>
      <gco:CharacterString xmlns:gco="http://www.isotc211.org/2005/gco">I 1.2 Naturschutzinformation, Geoinformation, Open Data</gco:CharacterString>
    </gmd:individualName>
    <gmd:organisationName>
      <gco:CharacterString xmlns:gco="http://www.isotc211.org/2005/gco">Bundesamt für Naturschutz</gco:CharacterString>
    </gmd:organisationName>
    <gmd:contactInfo>
      <gmd:CI_Contact>
        <gmd:phone>
          <gmd:CI_Telephone>
            <gmd:voice>
```

National geocatalog




MENU

Suchen a46059c7-db4e-4f3e-8e0a-076f4a74e: x

Filter

- Art der Ressource
 - Geodatendienst (1)
- Verfügbare Dienste
 - Darstellungsdienst (1)
- Datenanbieter
 - Bundesamt für Naturschutz (BfN) (1)
- Fachgebiete
- INSPIRE
- Schlüsselwörter
- Sprache
 - Deutsch (1)

1 Treffer



Bundesamt für Naturschutz: Hauptfortpflanzungsgebiet Schweinswale (WMS)

Bundesamt für Naturschutz

In der deutschen Nordsee ist der Schweinswal im Zeitraum von Mai bis August in seiner sensibelsten Fortpflanzungsphase. Zugleich weist die Population eine deutliche Konzentration in einem Gebiet nordwestlich Sylt aus (Hauptkonzentrationsgebiet). Um dauerhaft ausreichende Ausweichmöglichkeiten für Schweinswale sicherzustellen und um die Störungen für die Population auf das fachlich vertretbare und rechtlich zulässige Maß zu begrenzen, ist es in der besonders sensiblen Phase zusätzlich erforderlich, das Hauptkonzentrationsgebiet von schallintensiven Baumaßnahmen freizuhalten, bei denen sich kumulativ mehr als 1% der Gebietsfläche innerhalb...

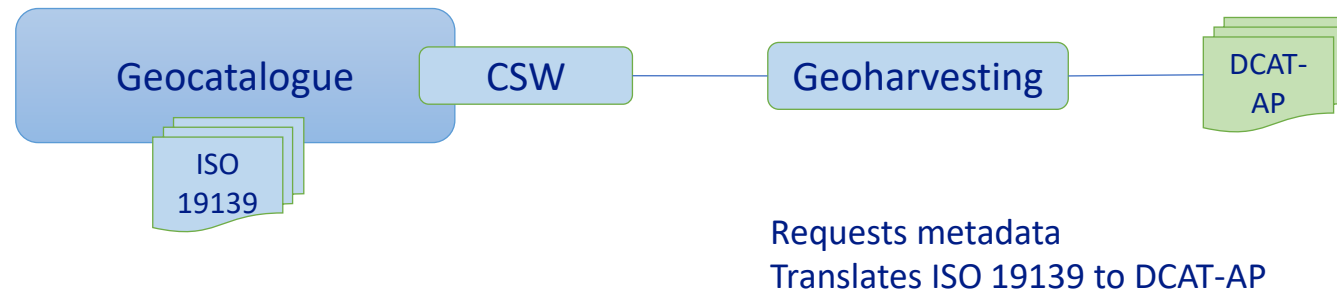
[Karte](#) [Information](#)

1 Treffer

<https://www.geoportal.de/search.html?q=a46059c7-db4e-4f3e-8e0a-076f4a74e3af>

Harvesting and mapping to DCAT-AP

- Goal: reuse already available metadata without having to manually redefine it.
- The mapping is defined in the GeoDCAT-AP standard



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

Harvesting and mapping to DCAT-AP

Original metadata:

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<gmd:identificationInfo>
  <srv:SV_ServiceIdentification>
    <gmd:citation>
      <gmd:CI_Citation>
        <gmd:title>
          <gco:CharacterString>
            Bundesamt für Naturschutz: Hauptfortpflanzungsgebiet Schweinswale (WMS)
          </gco:CharacterString>
        </gmd:title>
      </gmd:CI_Citation>
    </gmd:citation>
  </srv:SV_ServiceIdentification>
</gmd:identificationInfo>
```

DCAT-AP metadata:

```
<dct:title xml:Lang="de">
  Bundesamt für Naturschutz: Hauptfortpflanzungsgebiet Schweinswale (WMS)
</dct:title>
```


Display in data.europa.eu



Login EN English

Search datasets

Search

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

Home Datasets Documentation Publications data.europa academy News Contact us

Home > Datasets > Federal Agency for Nature Conservation: Main reproductive area porpoises (WMS)

Dataset

Federal Agency for Nature Conservation: Main reproductive area porpoises (WMS)

DE GDI-DE

Dataset

Categories

Quality

Similar datasets

Dataset feed Linked data Cite

In the German North Sea, the porpoise is in its most sensitive reproductive phase in the period from May to August. At the same time, the population exhibits a significant concentration in an area northwest of Sylt (main concentration area). In order to ensure long-term adequate evasions for porpoises and to limit the disturbances for the population to the technically justifiable and legally permissible level, it is also necessary, in the particularly sensitive phase, to keep the main concentration area free from sound intensive construction measures where cumulatively more than 1 % of the area is located within the interference radius.

Updated	31.01.2022
Spatial	Coordinates: [[[3.615243, 47.141961], [3.615243, 55.910558], [15.715492, 55.910558], [15.715492, 47.141961], [3.615243, 47.141961]]] Type: Polygon
Contact Points	Organization Name: I 1.2 Naturschutzinformation, Geoinformation, Open Data E-Mail: naturschutzinformation@bfn.de Address: Konstantinstrasse 110, Bonn, 53179, Deutschland URL: https://www.bfn.de



Σύνδεση EL Ελληνικά

Αναζήτηση συνόλων δεδομένων

Search

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

Home Δεδομένα Documentation Publications data.europa ακαδημία Νέα Επικοινωνία

Home > Σύνολα Δεδομένων > Ομοσπονδιακή Υπηρεσία για τη Διατήρηση της Φύσης: Φώκαινες κύριας αναπαραγωγικής περιοχής (WMS)

Dataset

Ομοσπονδιακή Υπηρεσία για τη Διατήρηση της Φύσης: Φώκαινες κύριας αναπαραγωγικής περιοχής (WMS)

DE GDI-DE

Σύνολο Δεδομένων

Κατηγορίες

Ποιότητα

Παρόμοια σύνολα δεδομένων

Σύνολο δεδομένων τροφοδοσία Συνδεδεμένα δεδομένα

Παράθεση

Στη γερμανική Βόρεια Θάλασσα, η φώκαινα βρίσκεται στην πιο ευαίσθητη αναπαραγωγική φάση της κατά την περίοδο από τον Μάιο έως τον Αύγουστο. Ταυτόχρονα, ο πληθυσμός παρουσιάζει σημαντική συγκέντρωση σε μια περιοχή βορειοδυτικά του Sylt (κύρια περιοχή συγκέντρωσης). Προκειμένου να εξασφαλιστούν μακροπρόθεσμα επαρκείς διαφυγές για τις φώκαινες και να περιοριστούν οι διαταραχές για τον πληθυσμό στο τεχνικά δικαιολογημένο και νομικά επιτρεπτό επίπεδο, είναι επίσης αναγκαίο, στην ιδιαίτερα ευαίσθητη φάση, να διατηρηθεί η κύρια περιοχή συγκέντρωσης απαλλαγμένη από ηχητικά εντατικά κατασκευαστικά μέτρα, όπου σωρευτικά περισσότερο από το 1 % της περιοχής βρίσκεται εντός της ακτίνας παρεμβολής.

Ενημέρωση	31.01.2022
Χωρικός	Συντεταγμένες: [[[3.615243, 47.141961], [3.615243, 55.910558], [15.715492, 55.910558], [15.715492, 47.141961], [3.615243, 47.141961]]] Τύπος: Polygon
Σημείο επαφής	Όνομα οργανισμού: I 1.2 Naturschutzinformation, Geoinformation, Open Data E-Mail: naturschutzinformation@bfn.de Διεύθυνση: Konstantinstrasse 110, Bonn, 53179, Deutschland URL: https://www.bfn.de

Distributions

Distributions (1)

Link to the data	Format	Distribution added	Actions
No title available No description available Licence No Licence Provided Rights otherRestrictions Show less ^	GeoJ		Options ▾ Download Linked data ▾

- Services
 - Service-URL is mapped as distribution
- Datasets
 - gmd:CI_OnlineResources are mapped as distributions

Distributions

- Common issue: Not all gmd:CI_OnlineResources describe distributions
 - Different function code signal different purposes

download*	online instructions for transferring data from one storage device or system to another
information	online information about the resource
offlineAccess*	online instructions for requesting the resource from the provider
order*	online order process for obtaining the resource
search	online search interface for seeking out information about the resource

*: mapped as distribution

<https://semiceu.github.io/GeoDCAT-AP/releases/2.0.0/#coupled-resource---not-in-iso19115-core>

Distributions

```
<gmd:distributionInfo>
  <gmd:MD_Distribution>
    <gmd:transferOptions>
      <gmd:MD_DigitalTransferOptions>
        <gmd:onLine>
          <gmd:CI_OnlineResource>
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            </gmd:linkage>
            <gmd:name>
              <gco:CharacterString>Download dataset</gco:CharacterString>
            </gmd:name>
            <gmd:function>
              <gmd:CI_OnlineFunctionCode
                codeList=https://standards.iso.org/iso/19139/resources/gmxCodelists.xml#CI_OnlineFunctionCode
                codeListValue="download,,
              />
            </gmd:function>
          </gmd:CI_OnlineResource>
        </gmd:onLine>
      </gmd:MD_DigitalTransferOptions>
    </gmd:transferOptions>
  </gmd:MD_Distribution>
</gmd:distributionInfo>
```

Visualise geodatasets

- Preview in map
 - Web Map Service (WMS)
 - GeoJSON

Distributions (1)

Link to the data

Format Distribution and options

WMS

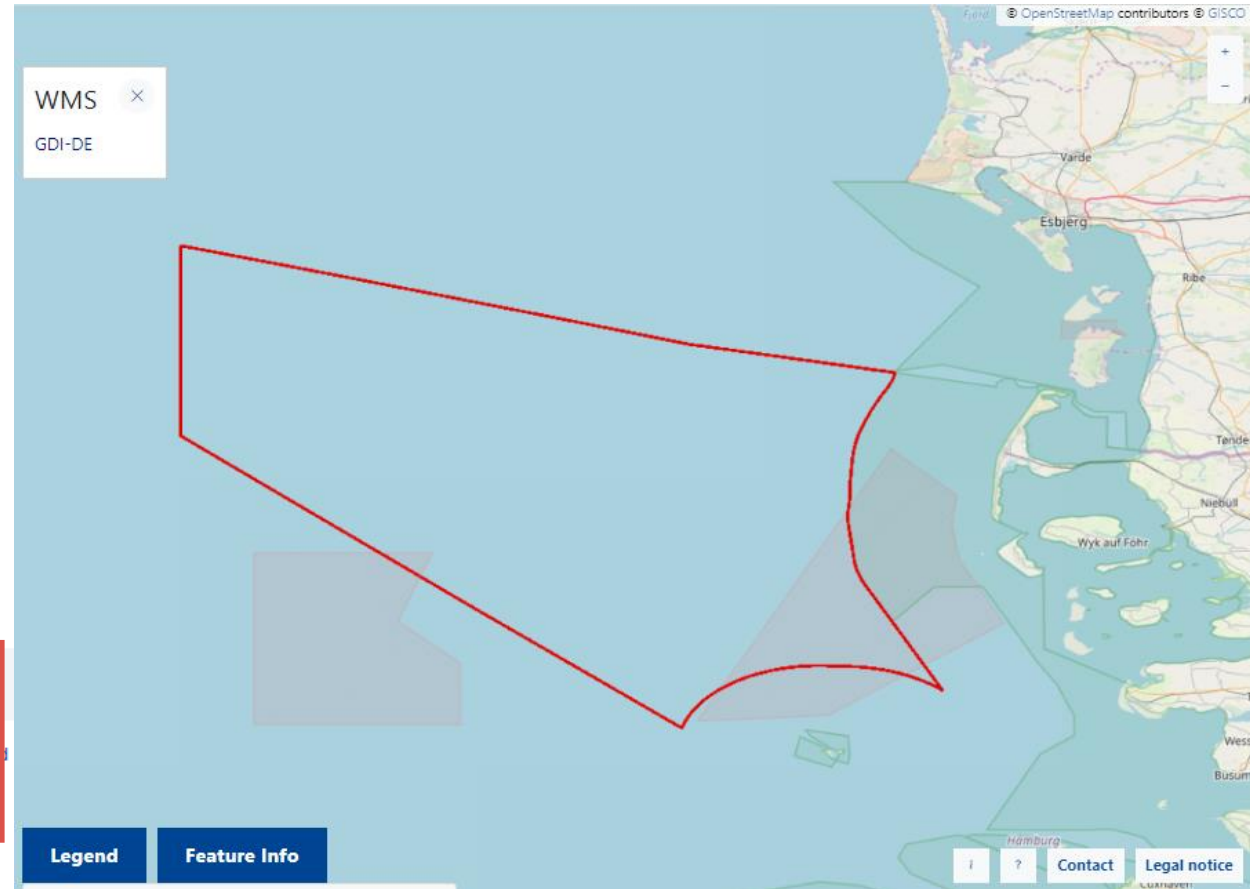
Show more ▾

WMS

Open Geo-Visualization

Options ▾ Download

Open a preview of the distribution.



How to be harvested?

- First step: Contact form
 - If you manage a (geo)portal containing public sector information and want it to be harvested
- Next steps:
 - You will be asked to provide information
 - We will set up the harvesting in a test environment
 - Finetuning if we encounter problems or have suggestions

<https://data.europa.eu/en/contact-us>

User Request

Language *
English (en) ▼

Message*

Which subject are you enquiring about? *

Please select... ▼

- Please select...
- Request to update a dataset
- Request for a specific dataset
- Suggestion for a new dataset
- Request for another format
- Error report
- Question on SPARQL / API
- Question on copyright
- General information
- Other questions
- Request to be harvested by data.europa.eu**

0 of 3

Agenda



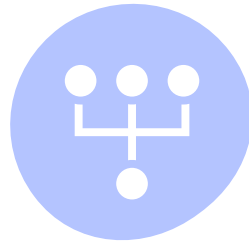
Introduction & goal of the webinar



Geospatial data on data.europa.eu



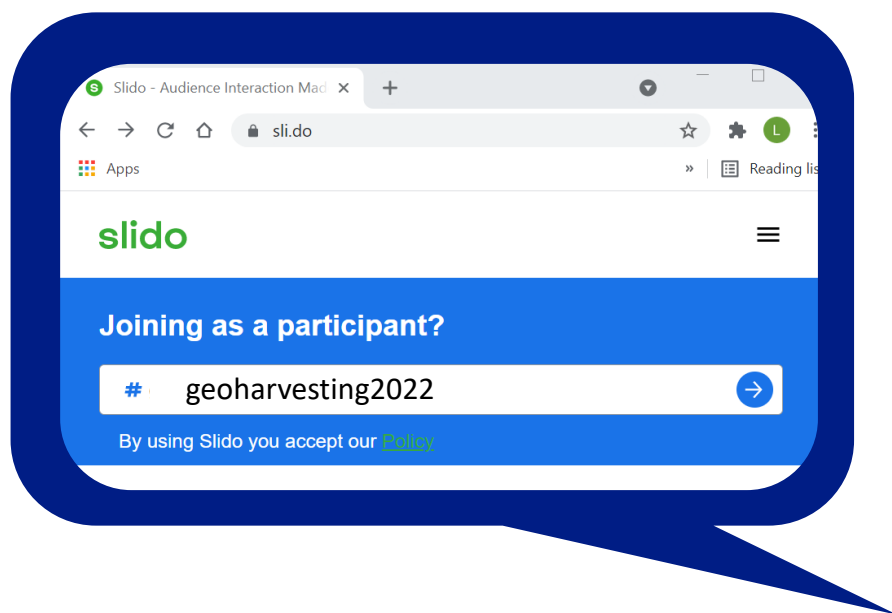
The geo-harvesting process



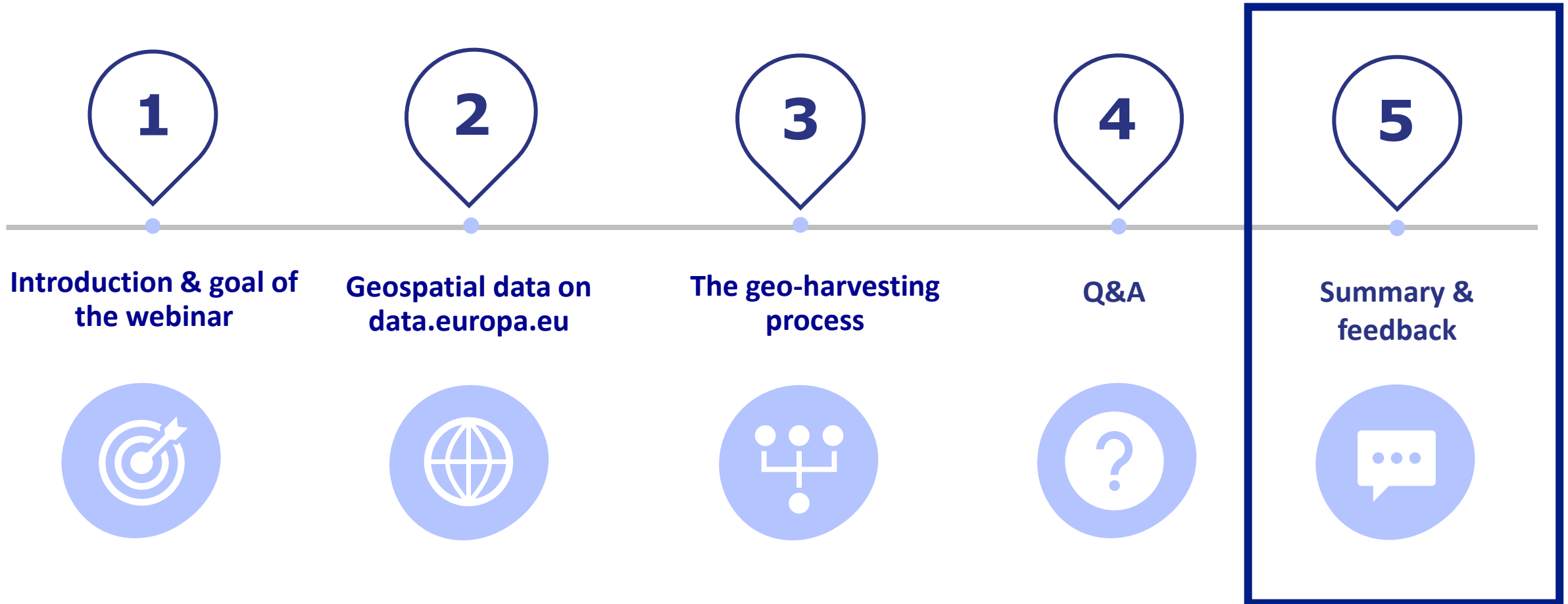
Q&A



Questions?



Agenda



Summary

- data.europa.eu includes descriptions for geospatial data
 - Geoservices (WMS, WFS,...), geodata (GeoJSON, Shape, KML, GeoPackage...), files with coordinates or indirect spatial information
- data.europa.eu harvest metadata from open data catalogues and geocatalogues
- The geo-harvesting process
 - requests the metadata from the originating catalogues
 - performs a mapping between the geo-metadata (ISO 19139) and what is needed for data.europa.eu (DCAT-AP)

Please provide
your feedback and
help us plan for
2023!



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 [data.europa.eu](https://www.facebook.com/data.europa.eu)

 The official portal
for European data

