

WEBINAR FOR DATA PROVIDERS

data.
europa
academy 

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

- 16 September 2022
- 10.00-11.30 CET

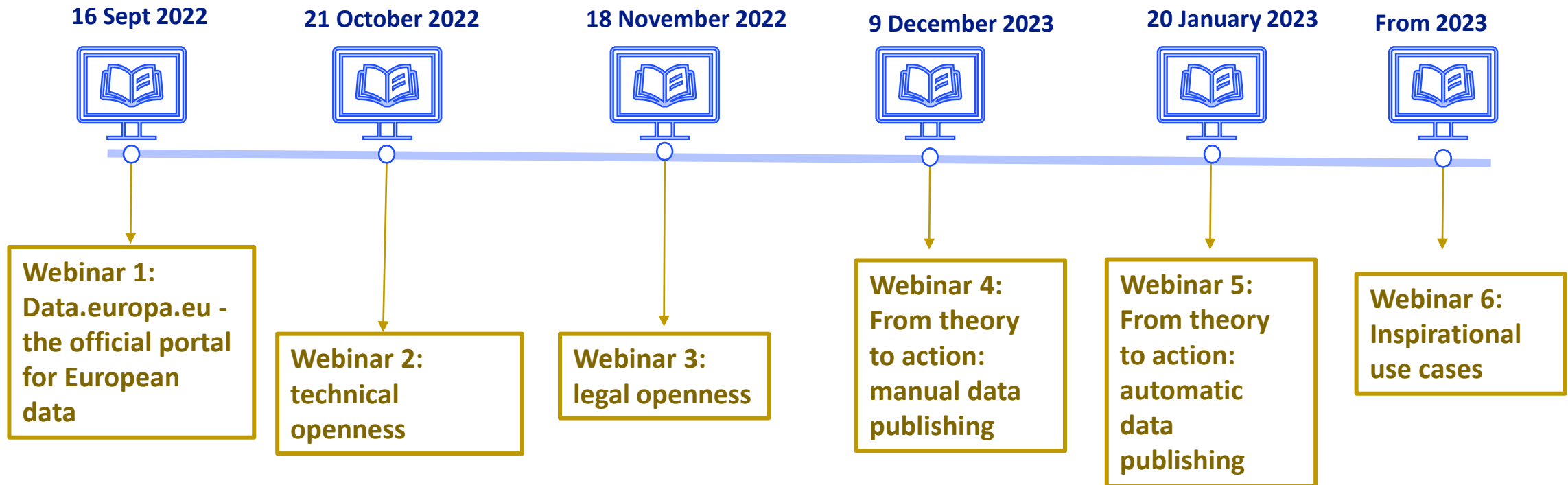
The first of many

- First webinar of the series of webinars for data providers
- Published on the [data.europa academy](https://data.europa.eu/academy) – learning corner for data providers
- Introduction to the portal, open data, its benefits and much more!

Rules of the game:



The learning corner for data providers



A photograph of a misty forest path. The path is dirt and leads into the distance, flanked by tall, thin trees. Sunlight filters through the canopy, creating a soft, hazy atmosphere. The text is overlaid on the upper part of the image.

Let's start our journey!

- Who are we? Why do we exist?
- Open data in a nutshell
- The portal: what's in it for you
- The potential of open data:
EU Datathon

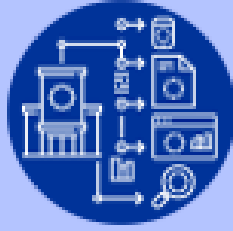


**Who are we?
Why do we exist?**

Publications Office of the European Union



Official provider of publishing services



Central point of access to official information



Support to EU policies and ensure information is available

- ★ Trustworthiness
- ★ Transparency
- ★ Accessibility
- Service orientation



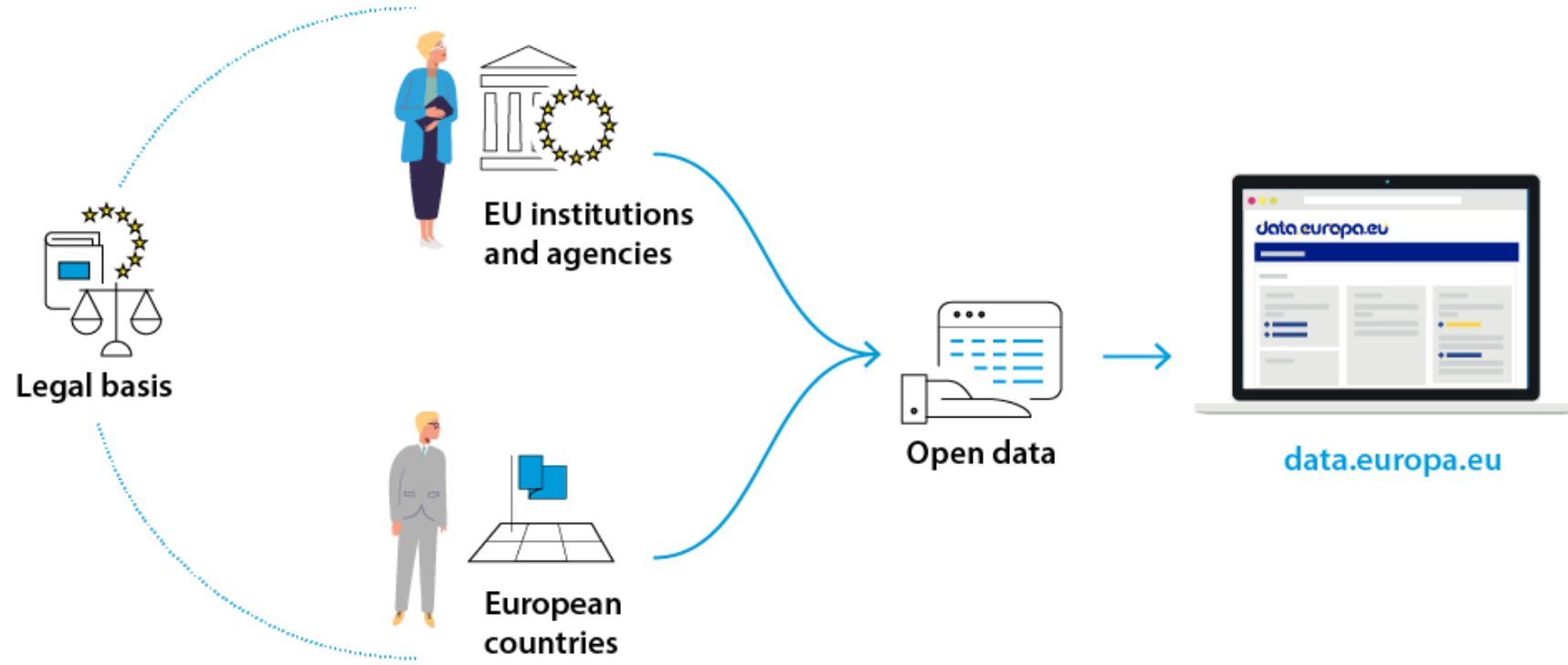
data.europa.eu

The portal that provides central point of access to open data open data from European countries and EU institutions, agencies and bodies.

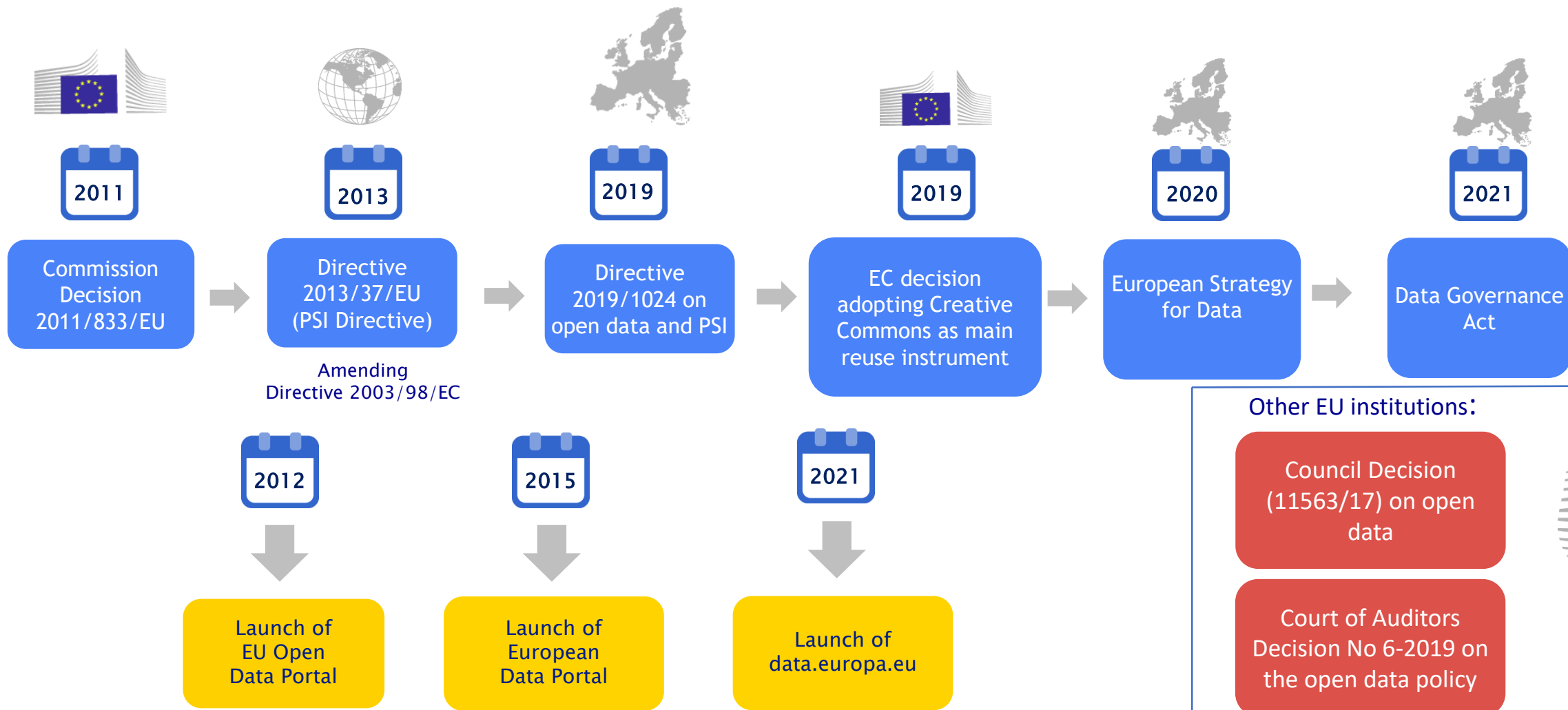
data.europa.eu is a **catalogue of metadata** providing a single point of access to open data from European countries and EU institutions for reuse.



data.europa.eu has been set up by the European Commission to implement EU open data and reuse policies under the legal acts adopted by the EU institutions and EU Member States.



Open data policy and legislative landscape



Connecting **knowledge**, creating an open data **community**

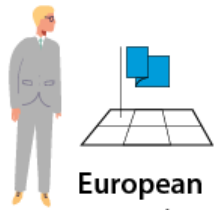
Data providers



EU institutions and agencies



Geoportals



European countries



data.europa.eu

Data users

Developers



Researchers



Public administrations

General public



Others

Private companies



Fact journalism

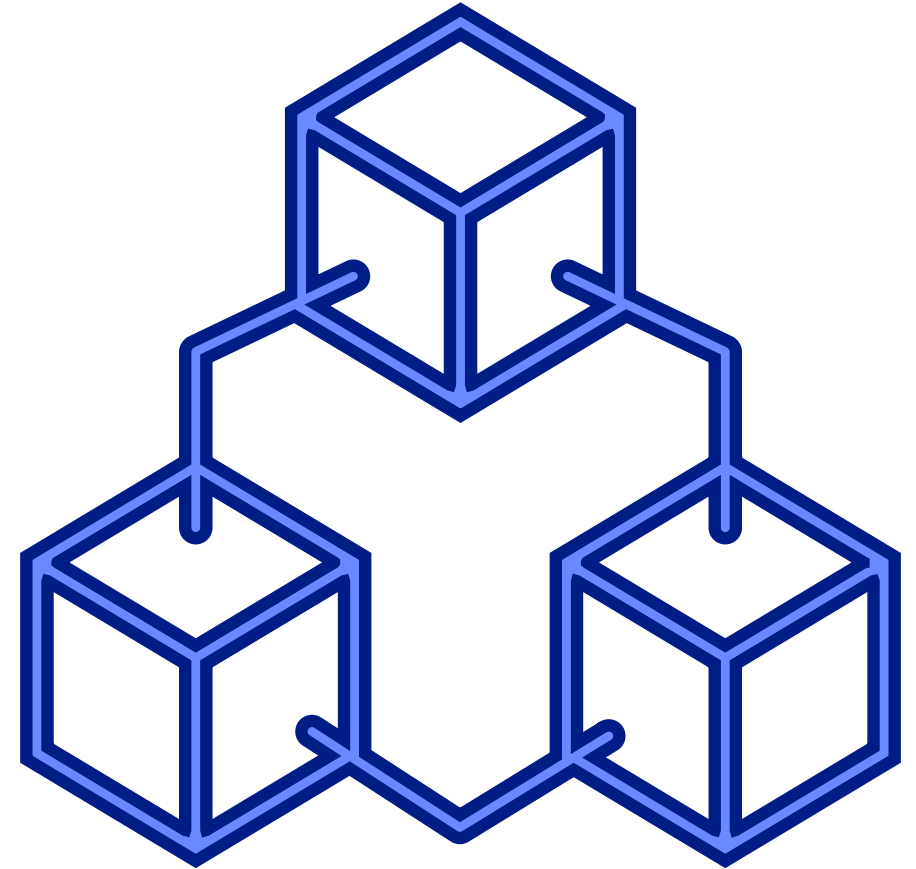


Open data in a nutshell

Open data definition



Source: [Open Data Handbook](#),
Open Knowledge Foundation



FAIR Open Data



FINDABILITY



ACCESSIBILITY



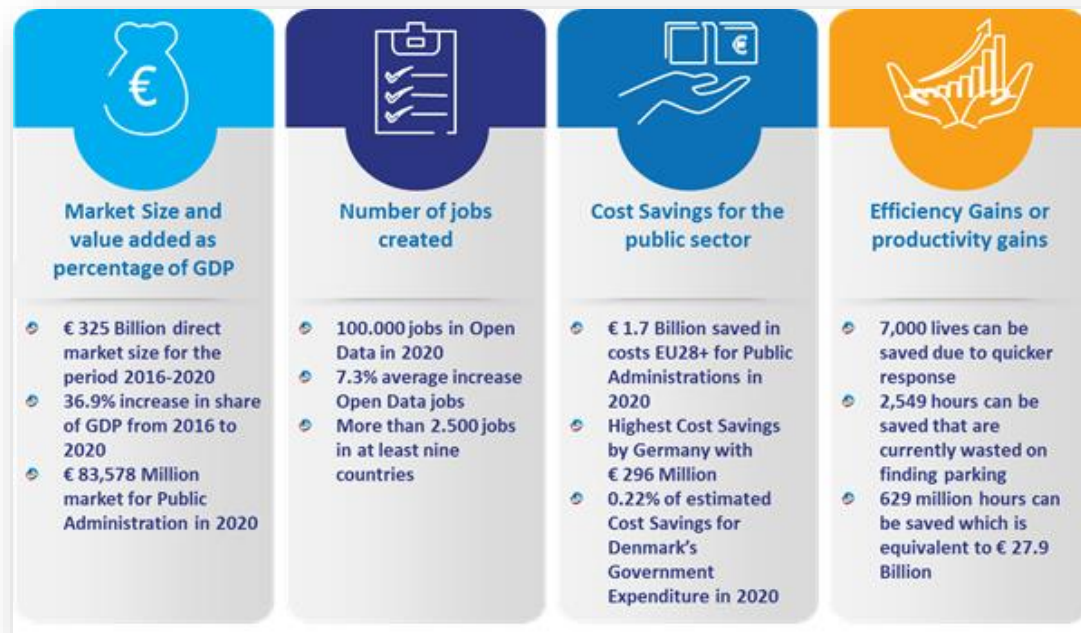
INTEROPERABILITY



REUSE

Why is open data important?

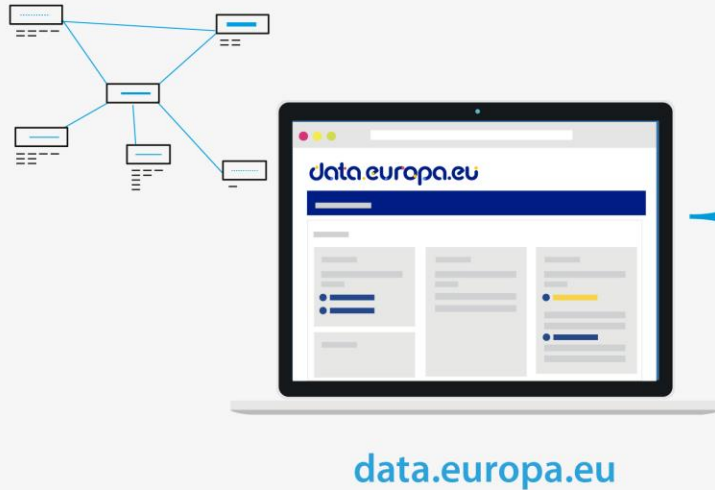
Features according to the report '[The economic benefits of open data](#)'



- Transparency and democratic control
- Civic-participation
- Self-empowerment
- Improved or new private products and services
- Innovation
- Improved government services
- Interoperability



The portal: what's in for me



Data access

Providing access to free public data resources across Europe via a single platform (the portal).



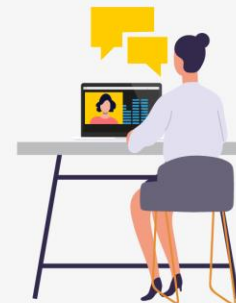
Metadata supply and quality

Supporting the EU institutions, EU Member States and European countries to publish metadata of their open data in a harmonised manner.



Data reuse

Organising open data competitions and conferences; communicating via social media and newsletters.



Data literacy

Assessing open data maturity in Europe; providing reports, studies and training via data.europa academy.



Catalogues, number of publishers

- More than 170 catalogues
 - From 36 Countries
 - 99 multi-national institutions and organisations
- 1,400,000+ datasets

The screenshot displays the homepage of data.europa.eu, titled "The official portal for European data". It features a navigation bar with "Data", "Studies", "data.europa academy", "News", and "Contact". A banner for "EU Solidarity with Ukraine" is visible. The main content area includes a search bar, a "Search datasets" section with a grid of icons for various categories (e.g., Economy & Finance, Education, Culture & Sport, Energy, Environment, Government & Public Sector, Health, Information Issues, Justice, Legal System & Public Safety, Population & Society, Regions & Cities, Science & Technology, Transport), and a list of "Trending datasets" such as "Consolidated list of persons, groups and entities subject to EU financial sanctions".

Below the main content, there is a table listing catalogues by country:

Denmark	2
Estonia	2
Finland	2
United Kingdom	2
Greece	2
Iceland	2

Next to the table is a description for the "HELCOM Metadata catalogue":

HELCOM Metadata catalogue
HELCOM Metadata catalogue contains descriptions of datasets collected under HELCOM, Baltic Marine Environment Protection Commission.

Datasets

Datasets are “a collection of data, published or curated by a single agent, and available for access or download in one or more representations”¹

The power of data can go beyond its initial scope. To maximise re-use we follow:

- [FAIR Principles](#) - help ensure that data is **F**indable, **A**ccessible, **I**nteroperable and **R**e-usable
- [DCAT-AP](#) - The (meta)data model created to promote interoperability among open data portals in Europe

FAIR Open Data and data.europa.eu



FINDABILITY

- Single access point
- Multilingual
- UI and search
- Persistent URIs



ACCESSIBILITY

- Machine-to-machine access
- URL status check



INTEROPERABILITY

- DCAT-AP
- Reference data

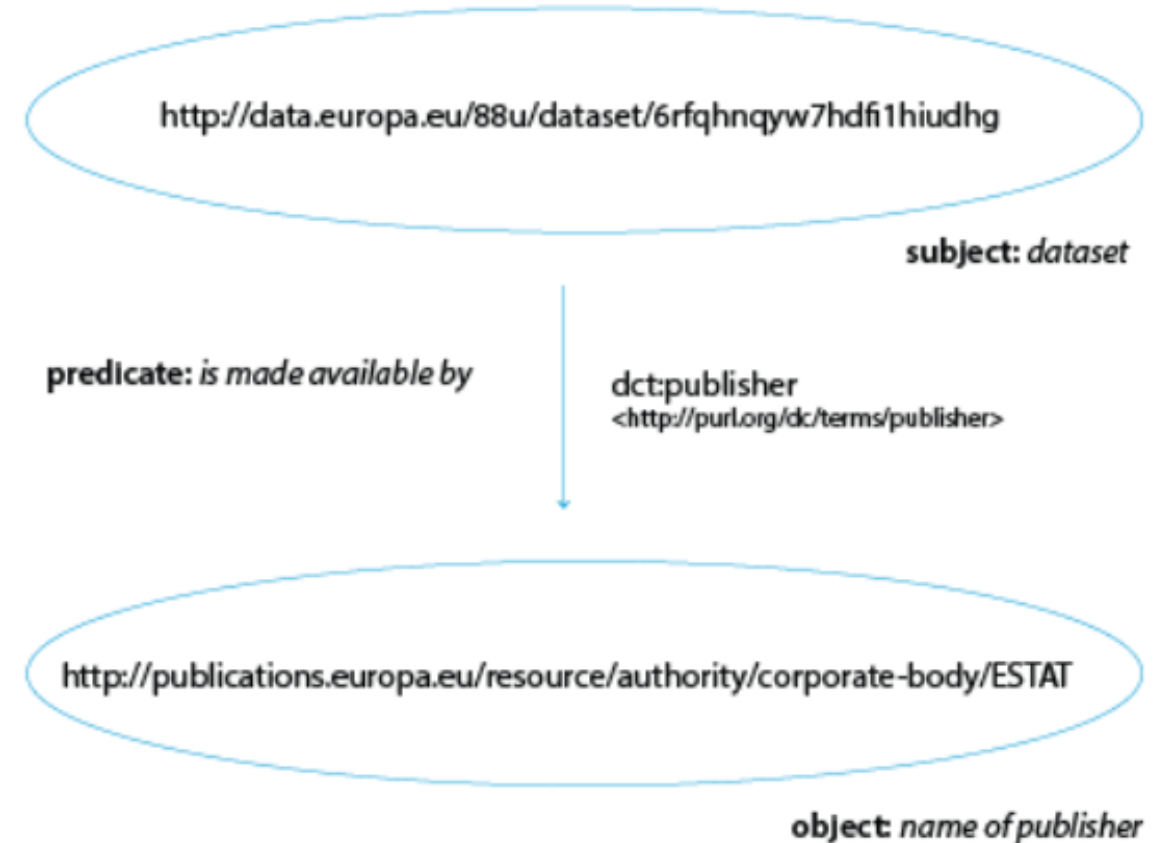


REUSE

- Metadata quality
- Data quality
- data formats
- licensing

The Data Catalog Vocabulary (DCAT)

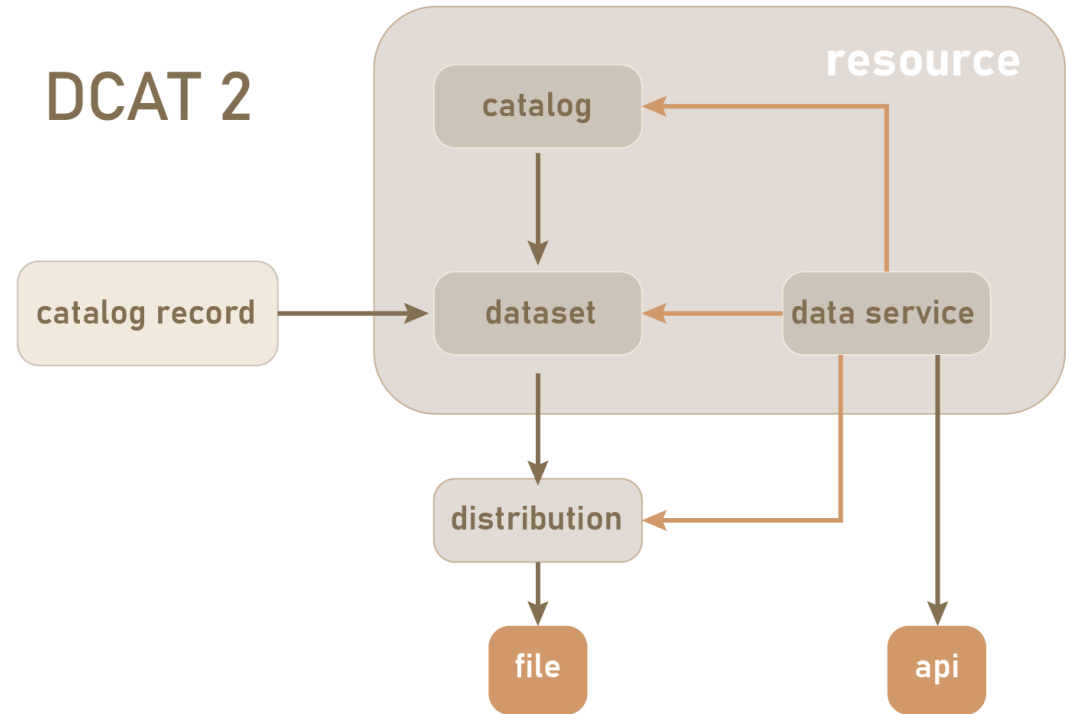
- Web semantics
 - RDF is the corner stone of the “web of data”
 - URIs, OWL and SKOS permit interoperability
 - SPARQL and SHACL allow to query and validate (meta)data
- DCAT is an RDF ontology for describing datasets
- DCAT-AP is the specification developed by ISA² for data portals in Europe



DCAT-AP

- DCAT classes:

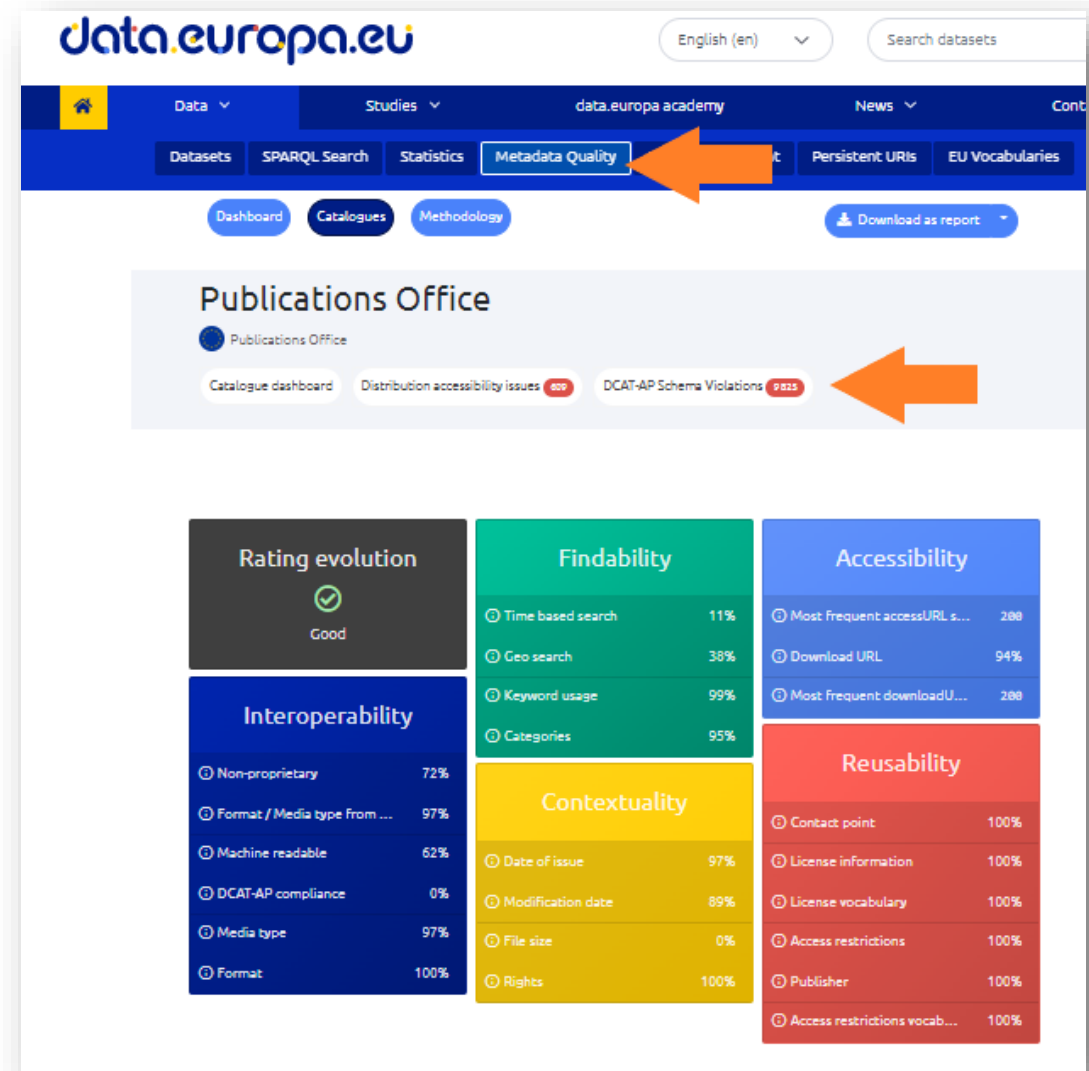
DCAT-AP assigns cardinality (mandatory/recommended/optional) to classes and properties



- See training courses in [data.europa academy](https://data.europa.eu/academy)

Metadata quality

Dashboard available per catalogue:



Metadata quality

Or for any dataset:

The screenshot shows the data.europa.eu website with the 'Quality' link in the top navigation bar highlighted by an orange arrow. The main content area displays the 'Corporate body Named Authority List' dataset, with a dropdown menu open for the 'DQV Data' link, showing options like RDF/XML, Turtle, Notation3, N-Triples, and JSON-LD.

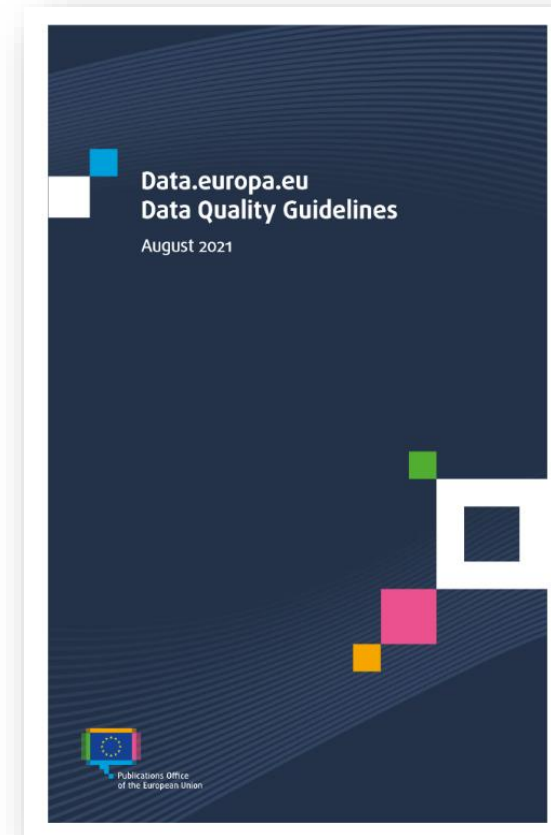
The screenshot shows the 'Quality' section for the 'Corporate body classification Named Authority List' dataset. It features a 'Metadata Quality' heading and a table of quality indicators across six categories: Accessibility, Contextuality, Reusability, Findability, and Interoperability. An orange arrow points to the 'Quality' link in the top navigation bar.

Category	Indicator	Value
Accessibility	Download URL	100 %
	Most frequent accessURL status codes	200 100 %
	Most frequent downloadURL status codes	200 100 %
Contextuality	File size	0 %
	Rights	100 %
	Datasets: Modification date	yes
	Datasets: Date of issue	yes
Findability	Keyword usage	yes
	Categories	yes
Interoperability	DCAT-AP compliance	no
	Format	100 %
Interoperability	Media type	100 %
	Format / Media type from vocabulary	100 %
Reusability	Access restrictions	yes
	License information	100 %
Reusability	Access restrictions vocabulary	yes
	Contact point	yes
Reusability	Publisher	yes
	Distributions: Modification date	0 %
Distributions: Date of issue	100 %	

Data quality - Data Quality Guidelines

- [Data.europa.eu Data Quality Guidelines](https://data.europa.eu/DataQualityGuidelines)
- [Training session on Data and Metadata Quality](#)

The better the quality, the easier it will be for users to reuse the data.



[Send us your feedback](#)

Data quality - Data Quality Guidelines

- Recommendations for **providing high-quality data** (general aspects of quality issues regarding the findability, accessibility, interoperability and reusability of data and specific recommendations **for common file formats like CSV, JSON, RDF and XML**).
- Recommendations for **data standardisation** (with EU controlled vocabularies) and **data enrichment**.
- Recommendations for **documenting data**.
- Recommendations for **improving the ‘openness level’**.

Data quality - Distribution Quality

Taxpayer Identification Number (TIN)

Directorate-General for Taxation and Customs Union | Updated: 14.12.2018

Metadata Quality

The Metadata Quality Assurance is intended to help data providers and data portals to check their metadata against various indicators. For information on which metrics we use for indicator measurements, please have a look at our methodology page.

Accessibility	
Download URL	75 %
Most frequent accessURL status codes	200 100 %
Most frequent downloadURL status codes	200 100 %

Contextuality	
File size	0 %
Rights	75 %
Datasets: Modification date	yes
Datasets: Date of issue	yes
Distributions: Modification date	0 %
Distributions: Date of issue	75 %

Reusability	
Access restrictions	yes
License information	100 %
Access restrictions vocabulary	yes
Contact point	yes
Publisher	yes

Findability	
Keyword usage	yes
Categories	yes
Geo search	yes
Time based search	no

Interoperability	
DCAT-AP compliance	no
Format	75 %
Media type	75 %
Format / Media type from vocabulary	75 %

Distribution Quality

The following is the quality measurement of all distributions of the dataset. For information on which metrics we use for indicator measurements, please have a look at our methodology page.

WSDL file for the SOAP service	
Accessibility	
Download URL	no
DownloadURL status code	n/a
AccessURL status code	200



data.europa.eu | English (en) | Search datasets

Data | Studies | data.europa academy | News | Contact

Dataset | Categories | Similar Datasets | **Quality** | Feedback | Share | Dataset Feed | Linked Data | DQV Data | Cite

Taxpayer Identification Number (TIN)

Directorate-General for Taxation and Customs Union | Updated: 14.12.2018

TINs are used by EU countries to identify taxpayers. TIN online check module. National TIN formats and descriptions.

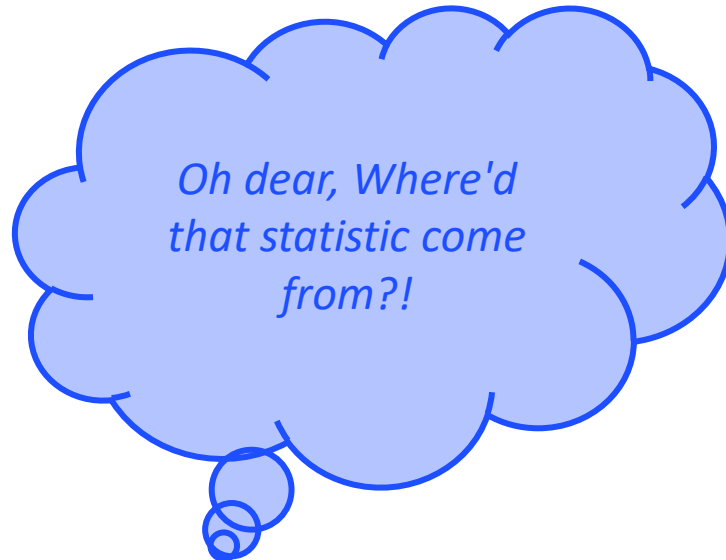
Distribution Quality

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WSDL file for the SOAP service	
Accessibility	
Download URL	no
DownloadURL status code	n/a
AccessURL status code	200

Data citation - recommendations

- [Data citation : A guide to best practice](#)
- [Training materials](#)



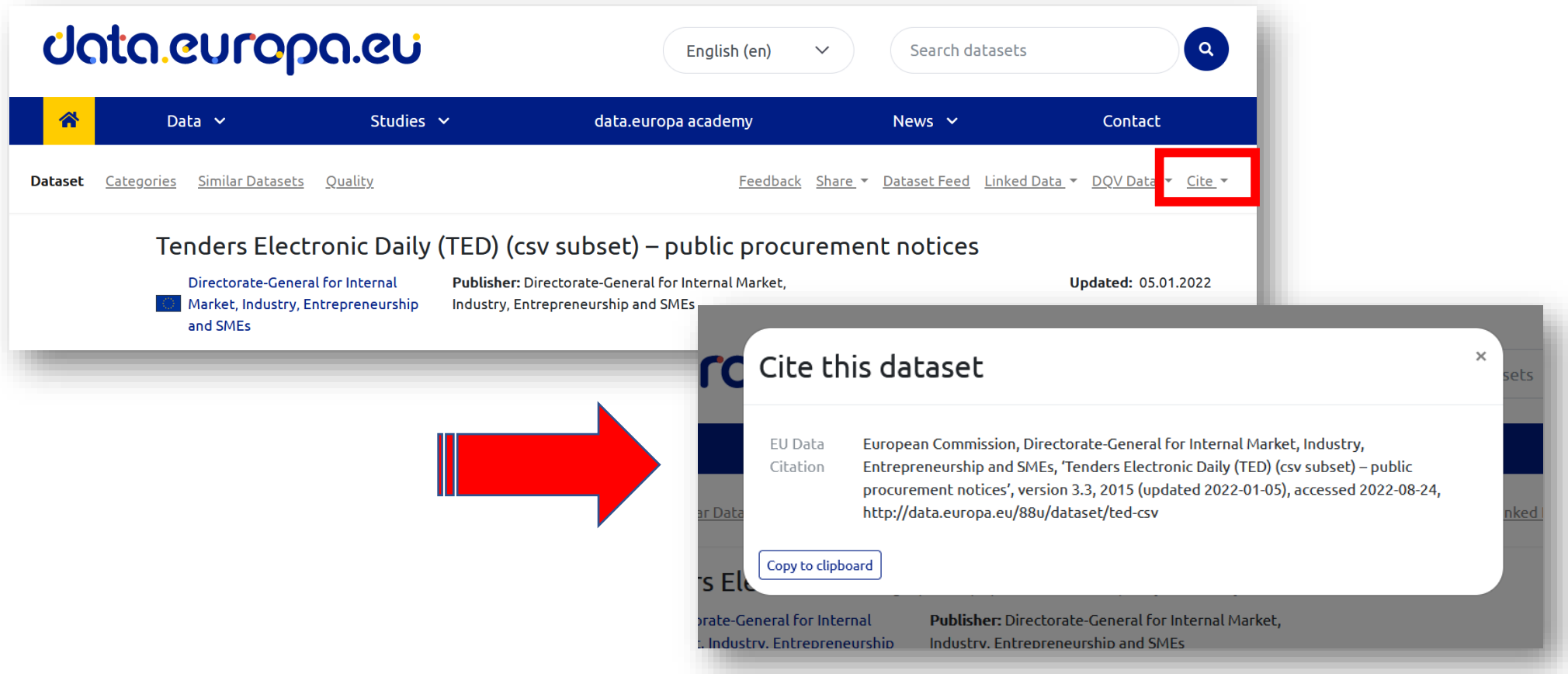
[Send us your feedback](#)

Data citation : A guide to best practice

- Recommended citation style for datasets (inline citation, caption, footnote or reference entry list)
- Other topics (specifying the cited data, citing data that changes, persistent identifiers (DOIs, data.europa.eu Persistent URIs), rights and licenses)
- Annexes (checklist, diagrams, examples)



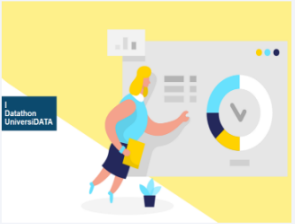
Data citation - citation button



The image shows a screenshot of the data.europa.eu website. The main navigation bar includes a home icon, 'Data', 'Studies', 'data.europa academy', 'News', and 'Contact'. Below this, there are links for 'Dataset', 'Categories', 'Similar Datasets', and 'Quality'. A red box highlights the 'Cite' button in the top right corner of the page. Below the navigation, the dataset title 'Tenders Electronic Daily (TED) (csv subset) – public procurement notices' is displayed, along with the publisher information: 'Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs' and 'Updated: 05.01.2022'. A large red arrow points from the 'Cite' button to a modal window titled 'Cite this dataset'. The modal window contains the following text: 'EU Data Citation European Commission, Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs, 'Tenders Electronic Daily (TED) (csv subset) – public procurement notices', version 3.3, 2015 (updated 2022-01-05), accessed 2022-08-24, http://data.europa.eu/88u/dataset/ted-csv'. A 'Copy to clipboard' button is located at the bottom of the modal window.


Telling stories with open data

Open data news



UniversiDATA's launches their first datathon!
14/09/2022

Share your proposal to showcase your project by Friday 14 October 2022
[Read more...](#)



EU Datathon 2022 teams behind the apps: meet Green Land Dashboard for Cities
13/09/2022

Exploring the evolution of green areas to make cities

Open data to achieve the EU green transition



(Open) data and the green transition
16/08/2022 | Europe

Since the start of 2020, Europe has faced several economic, social, and political difficulties, such as the COVID-19 crisis and Russia's invasion of Ukraine. These two events have short- and long-term impacts on, for example, the availability and prices of energy sources, food security, economic stability, the capacity of health care systems and defence throughout Europe. On a political level, these events motivated the European Union (EU) to accelerate the transition to a green and digital Europe, two of the European Commission's (EC) six highlighted priorities for 2019 to 2024. This transition is outlined in the European Commission's 2022 Strategic Foresight Report and the European Green Deal.

To achieve the EU Green Deal and to achieve a full green and digital transition across Europe, access to data (open as well as private) is crucial. These data can provide users with information, e.g. through interactive maps or dashboards. It can also be used to create services that open the way to and speed up the process towards, for example, climate neutrality, reduction of greenhouse gas (GHG) emissions, improvement of energy efficiency and restoring biodiversity.

Using open data to understand politics



Using open data to understand politics
07/07/2022 | Europe

Looking to attract readers, media fill their sites with polls, news articles and opinions about the latest political events. These include elections. The message brought by different media outlets can vary markedly and it can be hard to distinguish the ordinary from the extraordinary. Open data became a valuable tool to help put election outcomes into the right context.

For example, during the 2019 European elections, the Greens obtained 12% of the votes. One media outlet described this result as a surge of support. Comparing the 2019 and 2014 elections, the Greens did increase from 7% to 12% of the vote. Is this a surge? How to best put this result into context?

Open data excels at providing objective facts about elections. Graphs of election results over time visualise trends over time that people can interpret for themselves.

But the number of seats, an objective fact, can mask other more subjective parts of these trends. For instance, has the political position of green parties shifted? If so, this would put the results into another context.

The advantage of open data is that it helps capture this more subjective side of election results. But still, be careful with interpretations: data and political scientists collect data and information on the positions of political parties. However, classifying these positions is a subjective. What one data collector classifies as "left-wing" might be seen as "centrist" to another. This can result in a biased view.

Ukrainian diaspora in Italy

UKRAINIAN COMMUNITIES IN ITALY, 2021
28/07/2022

Understanding Ukrainian communities in the context of refugee flows among the EU Member States, Italy hosts one of the largest communities of Ukrainian-born people. According to Eurostat data, at the end of 2020 there were 223 000 Ukrainian citizens holding a valid residence permit. Only Poland had more, with almost 500 000. The Eurostat figures show that Ukrainian citizenship is the third most represented nationality, from non-EU citizens in terms of residence permits, behind Morocco and Turkey. However, while the last two remained stable or decreased since 2015, residence permits for Ukrainian nationals increased steadily, with a growth of more than 50 % up to 2020.

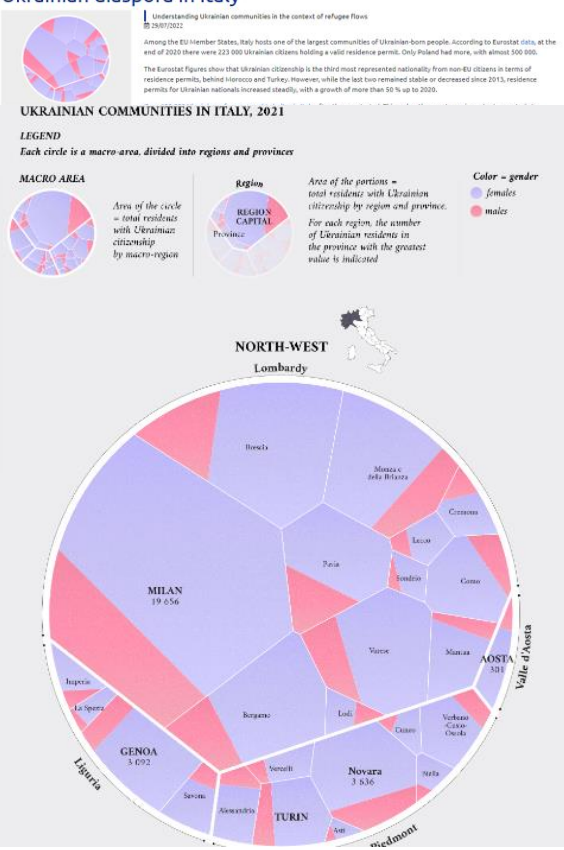
LEGEND
Each circle is a macro-area, divided into regions and provinces

MACRO-AREA
Area of the circle = total residents with Ukrainian citizenship by macro-region

Region
REGIONS CAPITAL
Province

Area of the portions = total residents with Ukrainian citizenship by region and province.
For each region, the number of Ukrainian residents in the province with the greatest value is indicated

Color = gender
females
males



NORTH-WEST
Lombardy

MILAN 19 656

GENOVA 3 092

TURIN 3 836

AOSTA 301

Valle d'Aosta

Data stories



Linking data: European Science Vocabulary

14/09/2022

Discover an openly accessible tool to

Linking data: EU vocabularies

31/08/2022

The benefits of using linked open

Linking data: European Science Vocabulary

14/09/2022

Discover an openly accessible tool to classify scientific fields

In our "Linking data" series, we are presenting EU projects that use linked open data (LOD). What data is linked in these projects? Why did they decide to use LOD? What benefits does it bring? Follow the series to find out.

In this episode, we are presenting the European Science Vocabulary. Read on to find out what it is and how and why it uses LOD.

CORDIS - EU research and development database

The Community Research and Development Information Service (CORDIS) is a multilingual platform offering access to data about EU-funded research and innovation projects. Its mission is to bring research results to professionals in the field, foster open science, create innovative products and services and stimulate economic and scientific growth across Europe.

The platform is made up of several databases and contains information on all EU-supported research and innovation (R&I) activities, including funding programmes (such as Horizon 2020), projects, results and publications.

The project database is at the heart of CORDIS. It gives access to public information about EU-funded R&I projects, including details such as objectives, dates and funding programmes.

Linking data: European Science Vocabulary

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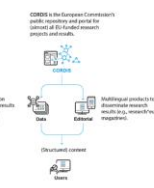
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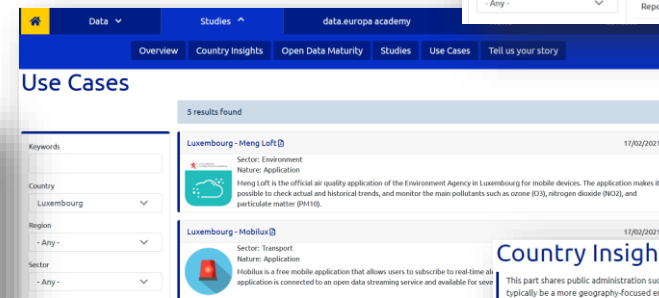
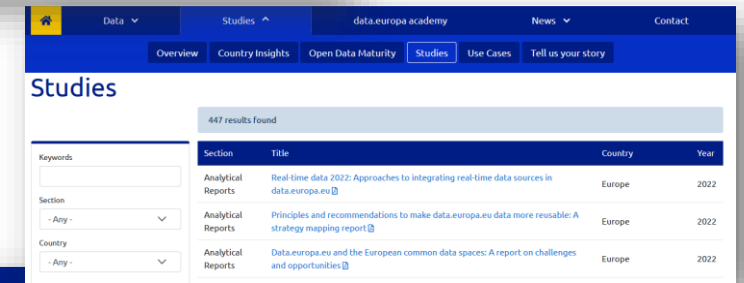
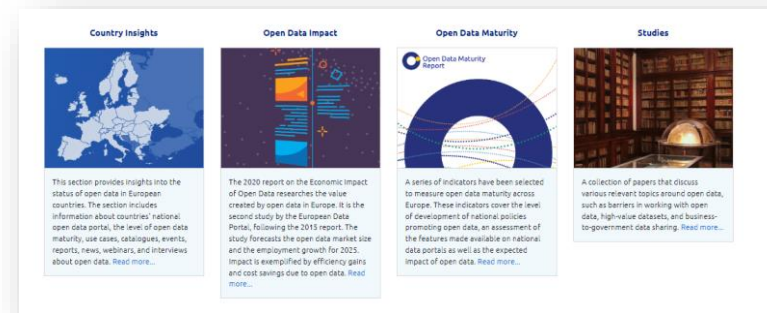
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Studies

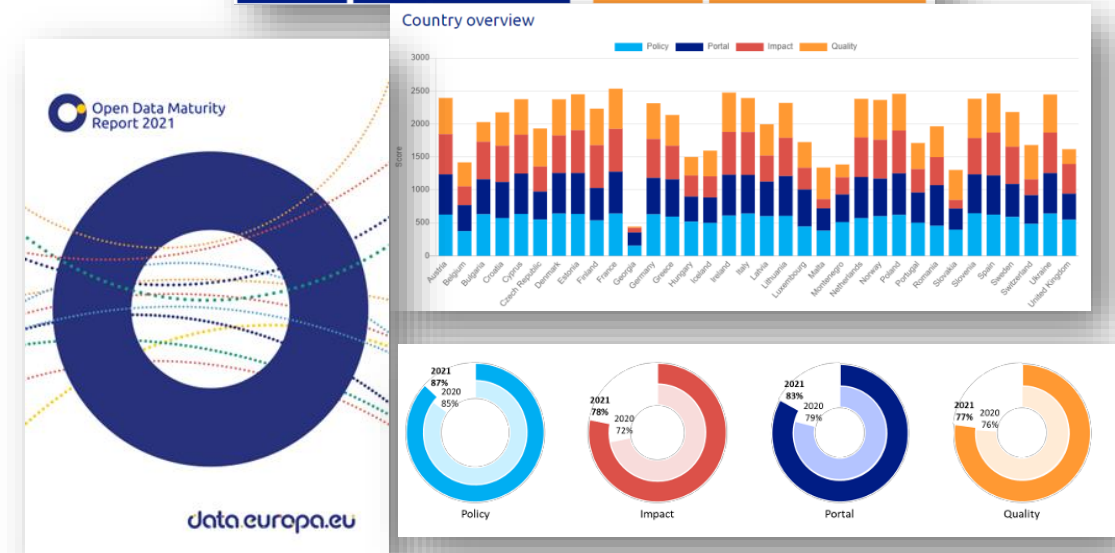
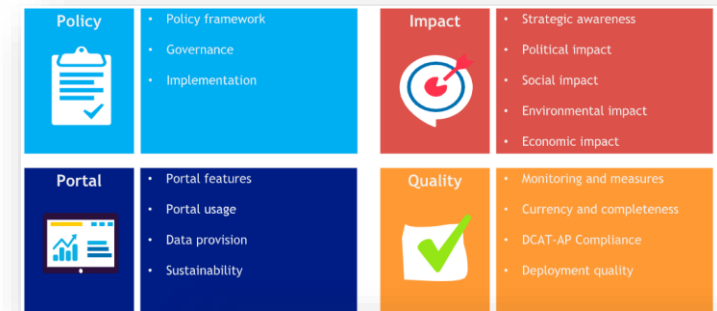
- Open data research and learning corner
- Full collection of outputs of the research: country insights, studies, use cases and the open data maturity report
- Five reports published in 2022, and 4 more to come!
- We want to hear from you! [Tell us your story!](#)

Analytical Reports	Real-time data 2022: Approaches to integrating real-time data sources in data.europa.eu	Europe	2022
Analytical Reports	Principles and recommendations to make data.europa.eu data more reusable: A strategy mapping report	Europe	2022
Analytical Reports	Data.europa.eu and the European common data spaces: A report on challenges and opportunities	Europe	2022
Analytical Reports	Data.europa.eu and citizen-generated data: Opportunities and challenges associated to the inclusion of citizen-generated data in data.europa.eu	Europe	2022
Analytical Reports	Open data best practices in Europe: Estonia, Slovenia and Ukraine	Europe, Estonia, Slovenia, Ukraine	2022



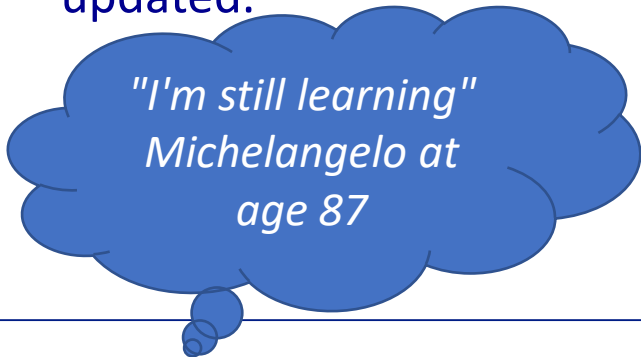
Learn about open data maturity in Europe

- Yearly study.
- Benchmarks the development of European countries in the field of open data.
- Support countries to better understand their level of maturity, capture progress over time, find areas of improvement and disclose recommendations
- Four areas: policy, impact, portal, quality
- New and improved methodology for ODM 2022 to be published in December 2022.



Data.europa academy

- Your open data knowledge hub, with learning material
- Objective: Improve open data skills across different sectors of our society, raise awareness about the importance of open data,..
- Four different areas: policy, impact, portal, quality
- Constantly updated with new courses, register to our newsletter to keep you updated.



data.europa academy

1 Policy
Open data policies & strategies
Open data governance
EU privacy & data protection regulations

2 Impact
Monitoring open data re-use
Measuring open data impact
Open data re-use

3 Technology
Portal features
Real-time geospatial, and citizen-generated data
Portal sustainability

4 Quality
Harvesting metadata
High-quality (meta)data Standards

Welcome to the data.europa academy! Here you can find all available courses, which are structured along four themes: policy, impact, technology, and quality. These four themes cover topics ranging from the open data basics to new trends and challenges in the open data landscape. You can search for and filter courses based on your interests.

The curriculum is constantly updated with new courses and new learning material based on research and best practices. Tell us what you think and what you miss via the feedback button below.

Happy learning!

[Share your feedback](#)

Learning corner for data providers

WEBINARS FOR DATA PROVIDERS

What can data.europa.eu offer to your organisation? What are the benefits of using its services and making data open? How to start publishing open data so citizens can use it?

This training package is designed to help data providers to open up their data and to make it available via data.europa.eu. This set of webinars is divided into several parts, going from the basics of open data, through essential technical, legal and practical information, to inspirational use cases.

Format:

Theme: Technology Quality

Description

Opening data for reuse has major benefits for citizens, businesses, and society. It allows the creation of new businesses, and promotes transparency and accountability of the public institutions, among many others. At the same time, publishing open data requires setting up an organisational process, starting from identifying the data assets, analysing and curating the content, and finally publishing them online.

Data providers play an essential role in the process. Data providers are representatives from public sector bodies (national, supranational, local and regional portals) that give access and distribute their data to the public. Often data publishers have the intention to publish their data, but they lack the technical, legal and organisational expertise to do so.

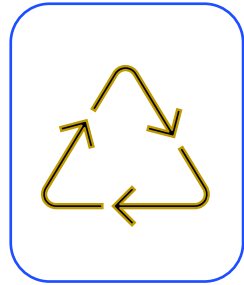
To fill this gap, data.europa academy offers a training package of 6 modules, designed to accompany data providers throughout the data publishing process:

1. Data.europa.eu - The official portal for European data
2. Understanding open data: technical openness
3. Understanding open data: legal openness
4. From theory to action: manual data publishing

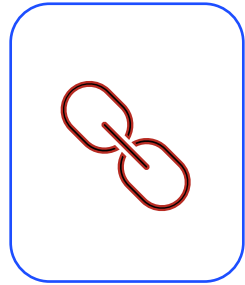
How data.europa.eu can support you?



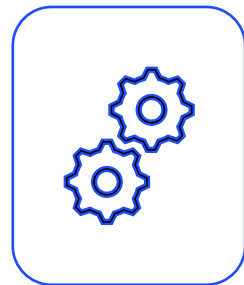
To provide a single point of access



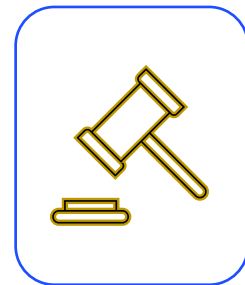
To facilitate and promote reuse



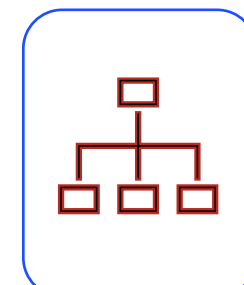
To facilitate interoperability and linking



To help overcome technical barriers



To help overcome legal barriers



To stimulate and improve data management



To engage with the user community



The potential of open data: EU Datathon

If we share data, will anyone use them?



Encouraging data reuse



- News articles, data stories
- Social media
- Newsletter
- Use case observatory
- International conferences, webinars
- **EU Datathon, annual open data competition**

EU Datathon

...is an EU open data competition organised annually since 2017.

Each year, we invite people from all around the world to create applications **using at least one data set from data.europa.eu.**

Participants submit their ideas in thematic categories - 'challenges'.





Challenge 1:

'A European Green Deal'

Challenge 2:

'Transparency in public procurement'

Challenge 3:

'Public procurement opportunities for young people'

Challenge 4:

'A Europe fit for the digital age'

EUDATATHON'22

#eudatathon

op.europa.eu/eudatathon

20 OCTOBER 2022

CROZ renEUwable team: Darko Benšić, Marina Bednjanec, Petar Matic, Vinko Puškar **Green Land Dashboard for Cities:** Lorenzo Sanna, Andrea Cruciani **MyBioEUBuddy:** Tamara Mitrovic, Biljana Vujovic, Nikola Damjanovic **EMMA:** Marc Fouqué **Free Software Foundation Europe:** Linus Sehn, Alexander Sander, Michael Weimann, Max Mehl **The AI Team:** Christian Spindler, Thomas Wurster, Stefan Fisches **HasPopEU:** Ion Marcu, Aiana Melnic, George Turcas, Razvan Ceană **Hermix:** Stefan Morcov, Bogdan Costea **YouthPOP:** Michail Maragkakis, Sofia Lousa, Konstantinos Maragkakis **100 Europeans:** Dimitrios Michailidis, Ntenis Koullolli **Lobium/Gavagai:** Tim Werkhoven, Ivan Sukhletcov, Fredrik Olsson, Anyla Pula **UNIOR NLP:** Maria Pia di Buono, Gennaro Nolano, Giulia Speranza, Johanna Monti



What's to win?

**Cash prize:
total € 200 000**

Public Choice Award

Teams are listed by challenge and then alphabetically.

EUDATATHON'22



Final event,
20 October 2022

Register
now!

#eudatathon

op.europa.eu/eudatathon 40



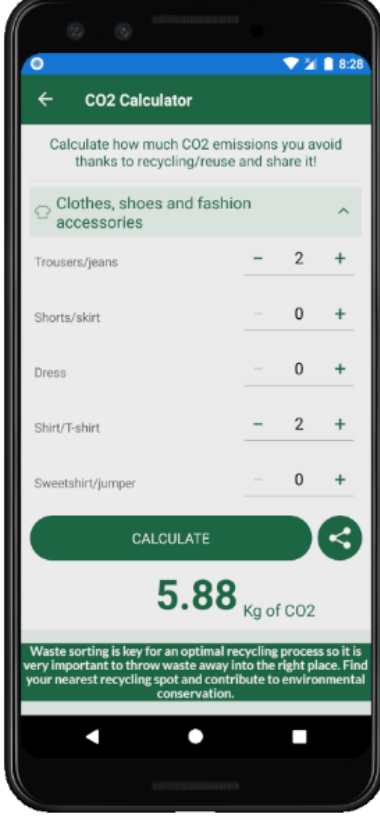
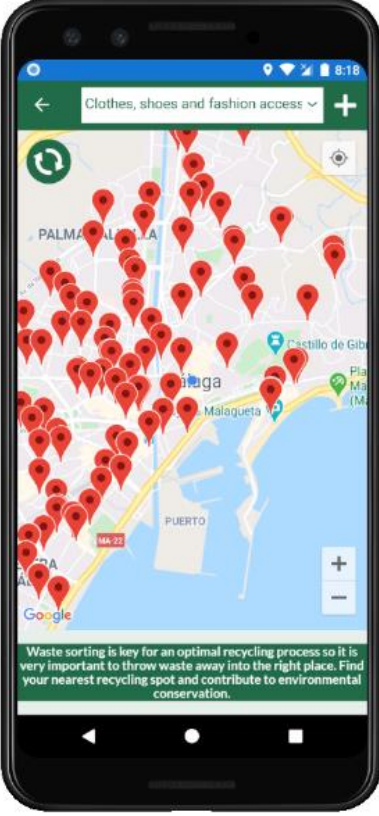
cleanSpot

<https://cleanspotapp.com/>

Boost recycling because there's no planet B!

- App encouraging to recycle waste and providing information on location of recycling spots, mobile recycling vehicles, specialised containers, etc.

- Data from European municipalities



TrackMyEU

<https://trackmyeu.org/>

Explore EU policies, track your interests, and make your voice heard in Brussels!

- Interactive app allowing to find information on EU policies and filter it based on one's interests
- Data from European Parliament, EUR-LEX, Council of the EU

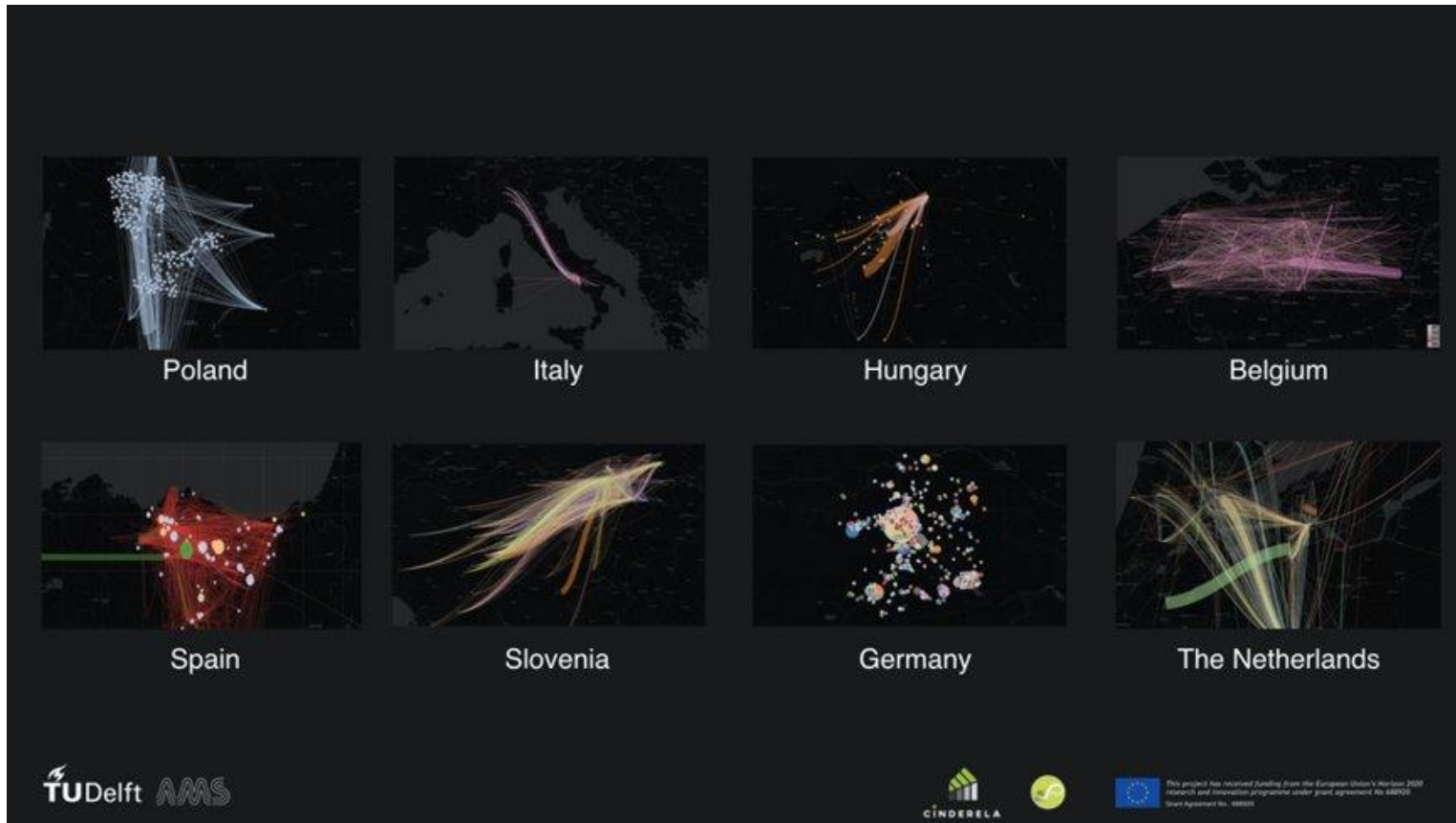
The image shows two overlapping screenshots of the TrackMyEU website. The top screenshot is the 'YOUR DASHBOARD' page, which features a green header and a navigation menu. It displays several data visualizations, including a bar chart for 'POLITICS & POLICY', a line chart for 'POLITICS & POLICY', and a list of 'LATEST EVENTS'. The bottom screenshot is the 'EXPLORE' page, which has a green header and a navigation menu. It features three main sections: 'DISCOVER THE EU', 'EU PRIORITIES', and 'ENGAGE'. The 'DISCOVER THE EU' section includes a grid of icons and a 'DISCOVER MORE' button. The 'EU PRIORITIES' section includes a grid of icons and a 'DISCOVER MORE' button. The 'ENGAGE' section includes a grid of icons and a 'DISCOVER MORE' button. The bottom of the 'EXPLORE' page features a 'Did you know?' section and a 'CONTACT US' section.

geoFluxus

<https://www.geofluxus.com/>

Redefining the value of your waste

- Platform mapping how waste travels through European cities
- Regional data as well as data from CORDIS, EEA, Eurostat



Data is said to be the oil of the 21st century. I don't think this is accurate. Data has more value and potential than oil back in the days. Unlike oil, data is a renewable resource [...]. Data enables constant creation of new applications.

Xavier Bettel, Prime Minister of Luxembourg, at EU Open Data Days 2021

Future webinars

data.europa academy

WEBINAR

Measuring open data impact in Europe

Friday 30 September 2022
10.00 – 11.30 CET

This card features the Data.europa Academy logo in the top left, a 'WEBINAR' label, the title 'Measuring open data impact in Europe', and the date and time 'Friday 30 September 2022, 10.00 – 11.30 CET'. It includes decorative yellow and blue corner elements.

data.europa academy

WEBINAR

Stories from the Use Case Observatory – Volume I

7 October 2022
10.00 – 11.30 CET

This card features the Data.europa Academy logo in the top left, a 'WEBINAR' label, the title 'Stories from the Use Case Observatory – Volume I', and the date and time '7 October 2022, 10.00 – 11.30 CET'. It includes decorative yellow and blue corner elements.

data.europa academy

WEBINAR FOR DATA PROVIDERS

Understanding open data: technical openness

21 October 2022
10.00 – 11.30 CET

This card features the Data.europa Academy logo in the top left, a 'WEBINAR FOR DATA PROVIDERS' label, the title 'Understanding open data: technical openness', and the date and time '21 October 2022, 10.00 – 11.30 CET'. It includes decorative yellow and blue corner elements.

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 The official portal
for European data



Please
provide us
your
feedback!

