WEBINAR

From data to metadata: enhancing quality across borders

data.europa academy

7 March 2025

10:00 – 11:30 CET

Rules of the game

The webinar will be recorded and published on the data.europa academy

For questions, please use the ClickMeeting chat

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

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Agenda

10.00 – 10.10	Opening and introduction – *Inmaculada Farfan Velasco*
10.10 – 10.20	The approach of the Open Knowledge Foundation – *Renata Ávila*
10.20 – 10.30	Sneak peek of the Open Data Editor – *Romina Colman*
10:30 – 10:45	The approach of the Open Data Charter – *Natalia Carfi*
10:45 – 11:05	Metadata quality approach from Danish Agency for Digital Government – *Christian Nicolai Larsen*
11:05 – 11:25	Q&A session
11:25 – 11:30	Closing remarks

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Speakers

Inmaculada Farfan Velasco
data.europa.eu,
Publications Office of the EU

Renata Ávila
CEO,
Open Knowledge Foundation

Romina Colman
Product Owner,
Open Data Editor

Natalia Carfi
CEO,
Open Data Charter

Christian Nicolai Larsen
Policy Officer,
Danish Agency for Digital Government

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The approach of the Open Knowledge Foundation

Renata Ávila
CEO, Open Knowledge Foundation

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We are building a world open by design where all knowledge is accessible to everyone.

Open Knowledge

FOR A FAIR, SUSTAINABLE AND OPEN FUTURE

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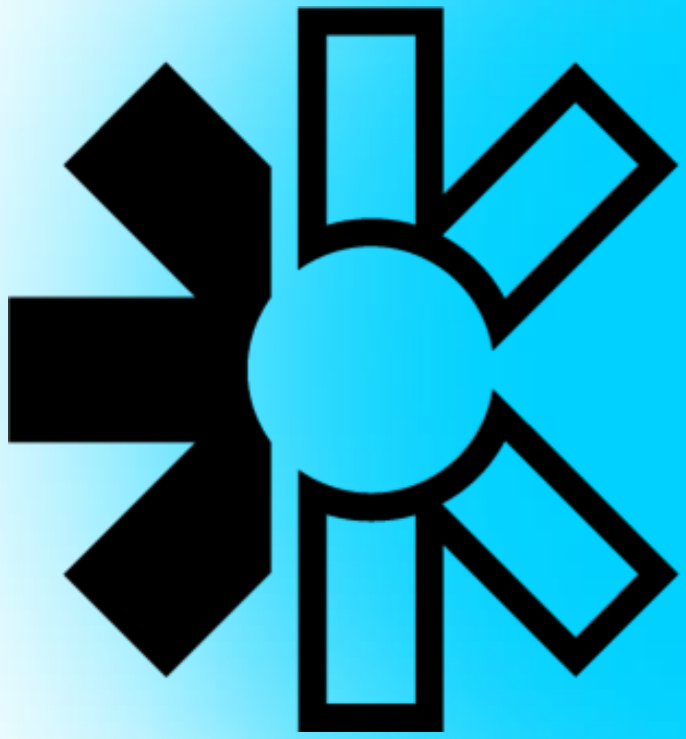
About OKFN

The **Open Knowledge Foundation** (OKFN) is the world's ultimate reference in open digital infrastructures and the hub of the open movement. As a global not-for-profit, we have been **establishing and advocating for open standards for the last 20 years**. We provide services, tools and training for institutions to adopt **openness as a design principle**.



Learn more – **okfn.org/who-we-are**

About OKFN

Our current activities are focused on 3 interrelated pillars:

Community

A Network present in 40+ countries

Open Tech

Tools and Services for opening data

Advocacy

Digital infrastructure to be open by design

Network

Countries where we are present →

The Open Knowledge Network connects those in the open knowledge movement **across 40+ countries**. OKFN provides tools and infrastructure, and manages the community. Chapters and local groups work together to support each other, to share expertise, and to amplify open knowledge activities around the globe.

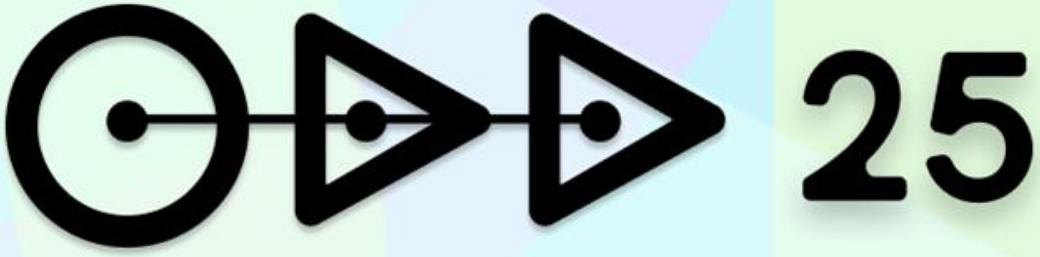
A few Network projects ↘

Open Data Day

Project Repository

Global Directory

Learn more – **okfn.org/network**



opendataday.org

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About

Open Data Day (ODD) is an annual celebration of open data all over the world, where groups and communities gather to reach out to new people and build new solutions using open data.

It is an opportunity to show the benefits of open data and encourage the adoption of **open data policies by government, business, and civil society**.

Open Data Day

About

Open Data Day is a bottom-up, decentralised initiative created in 2010 and led by the **Open Knowledge Foundation** (OKFN) for the last 9 years.

Participating and supporting these actions is one of our ways to promote the **sustainability of the open movement** and help circulate knowledge globally in a fair, sustainable and open way.

Open Data Day

Data Quality and its future

Challenges for data interoperability and data reuse.

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Challenges in open data quality

1. Siloed Data
- Fragmentation across departments
- Inconsistent formats (e.g., CSV vs. proprietary schemas)

2. Data Freshness
- Keeping real-time data current (e.g., transit schedules)
- Manual updates strain resources

3. Resource Constraints
- Limited staff, funding, and tools
- Quality often deprioritized

4. Governance Gaps
- Lack of ownership and accountability
- No centralized standards

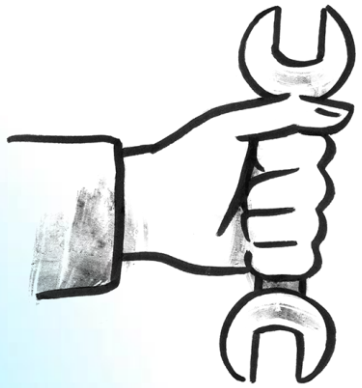
Going beyond the basics

- Consistency
- Traceability
- Granularity
- Metadata quality

Best Practices for High-Quality Open Data

A clear data governance framework

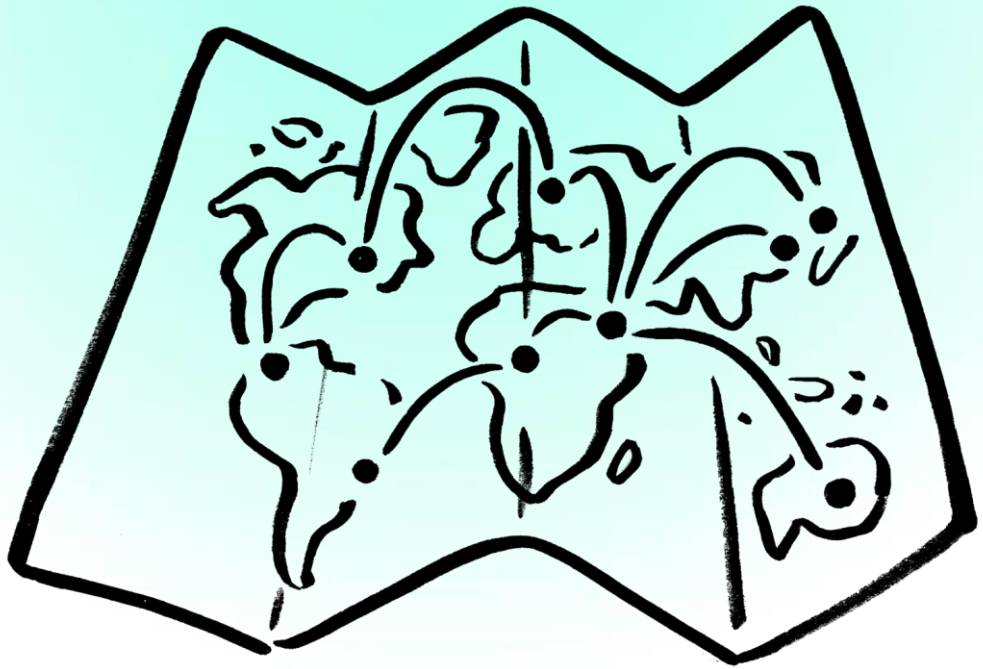
Automatised quality assurance and validation



Metadata management

Standardisation

Examples



- **Kenya Open Data Initiative**
  - Centralized portal with standards
  - Community feedback improves quality
- **Brazil's INEP Education Data**
  - Automated checks for school census
  - Real-time API monitoring

Result: Better school resources

- **India's Open Government Data Platform**
  - Metadata standards and validation
  - Harmonized departmental data

Example: Agricultural market insights

- **South Africa's Stats SA**
  - Consistent, granular census data
  - Detailed documentation

Result: Improved policy-making

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The future of Data Quality and Artificial Intelligence

- Automated Quality Checks: Real-time validation (e.g., TensorFlow Data Validation)
- Predictive Maintenance: Forecasts update needs (e.g., public health data)
- Enhanced Interoperability: Maps diverse datasets (e.g., environmental data)

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Conclusions

- ➔ Quality is a strategic asset
- ➔ Address silos, governance, and resources smartly
- ➔ Metadata and AI are key enablers

- ★ Assess your data quality maturity
- ★ Pilot a best practice (e.g., metadata management)
- ★ Share with the open data community
- ★ Test Open Data Editor!

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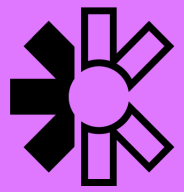
Thanks!



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Sneak peek of the Open Data Editor

Romina Colman
Product Owner, Open Data Editor

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Open Data Editor

The Open Data Editor (ODE) is a desktop app to help **non-technical** data practitioners to **explore and detect errors** in their tables.

opendataeditor.okfn.org

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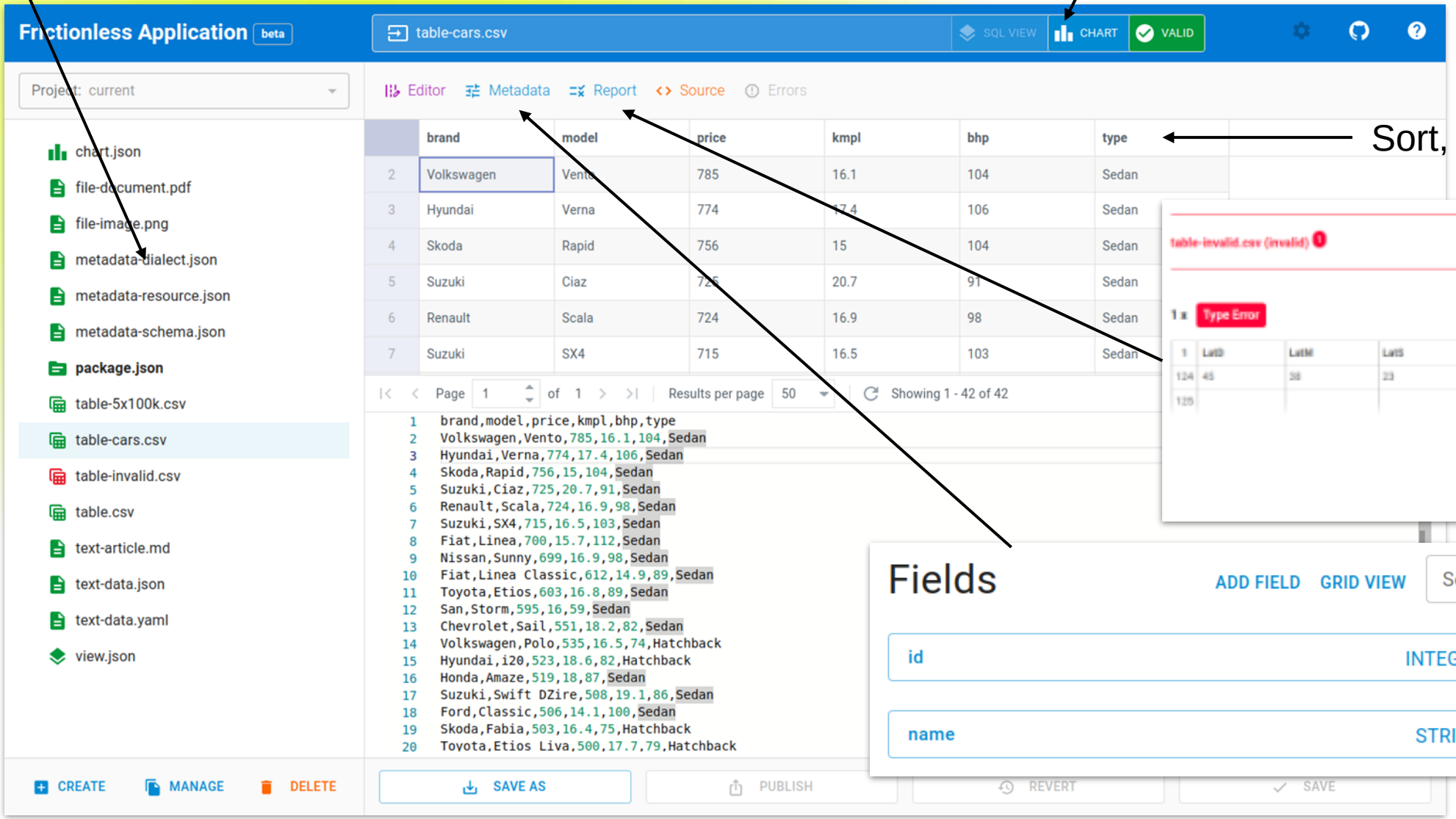
March 2025

Tables

Local files: no clouds; no vendor lock-in

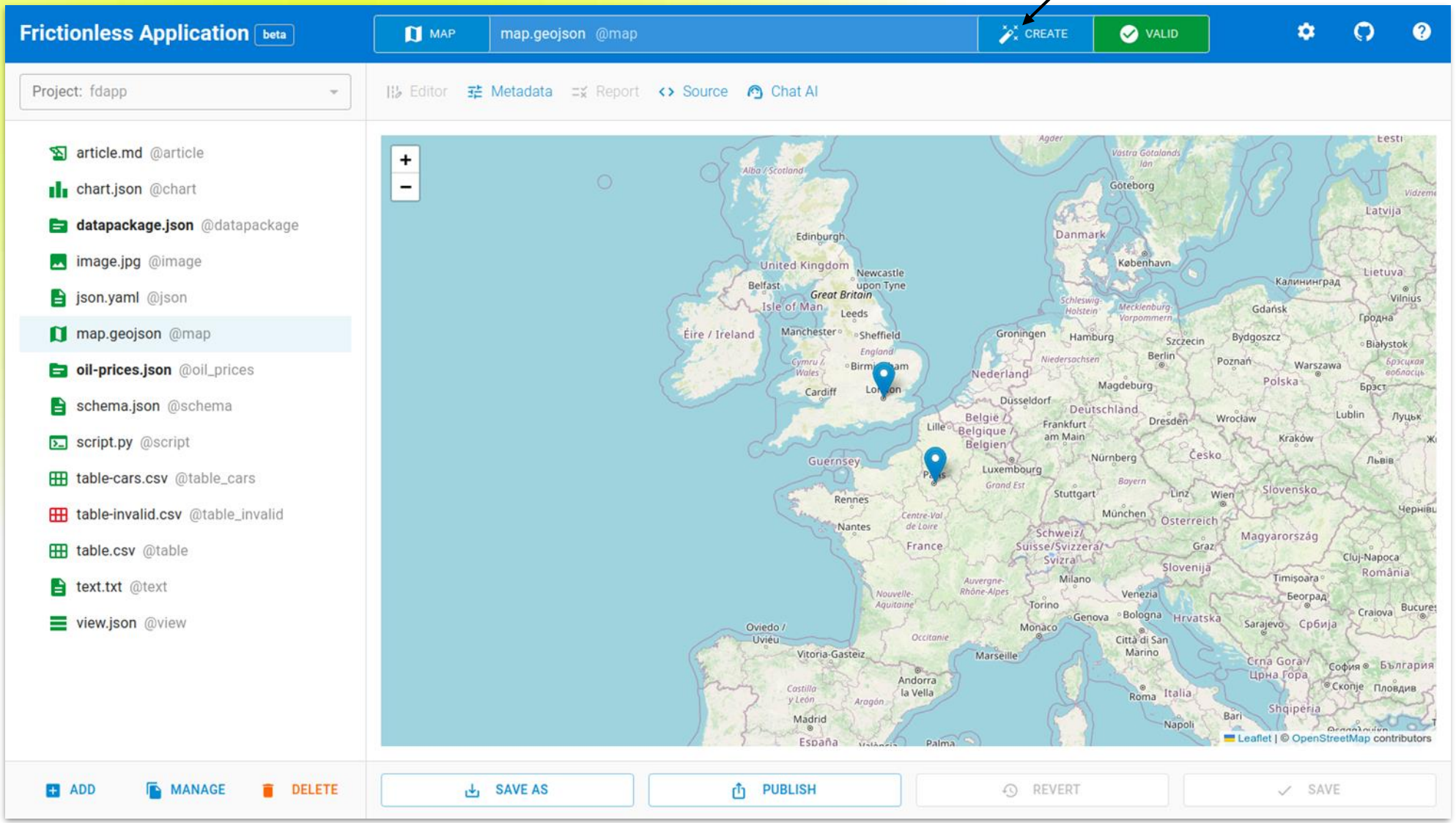
Use AI e.g. “create csv with 10 most populated cities in the world”



Sort, pagination, etc

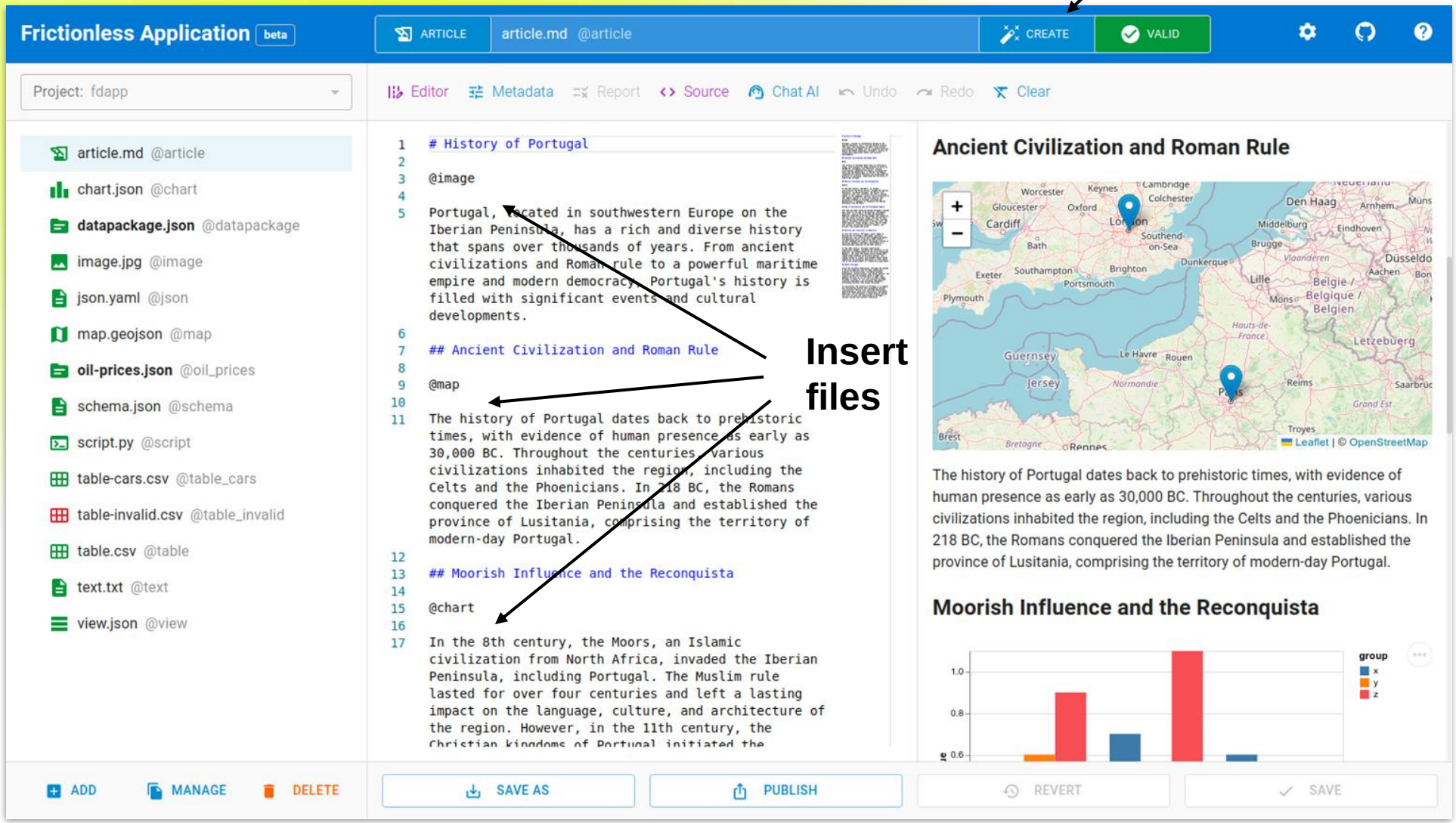
Maps

Use AI e.g. “create a map with all the capitals in Latin America”



Articles

Use AI e.g. “write an article about the history of Portugal”



What did we discover during the user research phase?

People working with data experience the same old problems.

Let's take a look at how the tool works!

Challenges...

pdelboca commented on Oct 30 • edited

Member

@romicolman I think this is a question related to `frictionless-py` since we are using it to read the data and the schema. I would venture to answer that ODE is loading the column as a string because the date is not in ISO8601 format (`YYYY-MM-DD`).

A common data friction is that dates are usually written in different formats like `YYYY/MM/DD` or `DD/MM/YY` or `MM/DD/YY` or even `YYYY-MM-DD` (notice that I changed `/` for `-`). According to the Table Schema of the Data Package dates needs to be in `YYYY-MM-DD` format. Since this data is `DD/MM/YY` then it is considered as a string.

This is not an error nor a problem with the tool but rather a **data friction** that we need to solve/explain.

The specification of Data Package has a definition on what a `date` should look like, so in order to be able to define it as a `date` in Open Data Editor (that it is based in Data Package) the user should change the values to respect the format of the specification (`YYYY-MM-DD`).

Open Data Editor

Upload your data

Create folder

- Base de datos - Magis
- Distribucio.de.la.rend
- Ethical Tech Job Resc
- Ethical Tech Job Resc
- Radios precensales 2
- Wrong data type.csv
- magistrados-justicia-f
- matriculas_por_escol

User guide

Report an issue

Metadata | Errors Report | Source | Undo | Redo | AI | Publish | Save changes

- Resource
  - Integrity
  - Licenses
  - Contributors
  - Sources
- Dialect
- Schema

Resource

Name: magistrados-justicia-federal-n

Path: magistrados-justicia-federal-n

Type: table

Scheme: file

Format: csv

Title

Media Type: text/csv

Description

Encoding: utf-8-sig

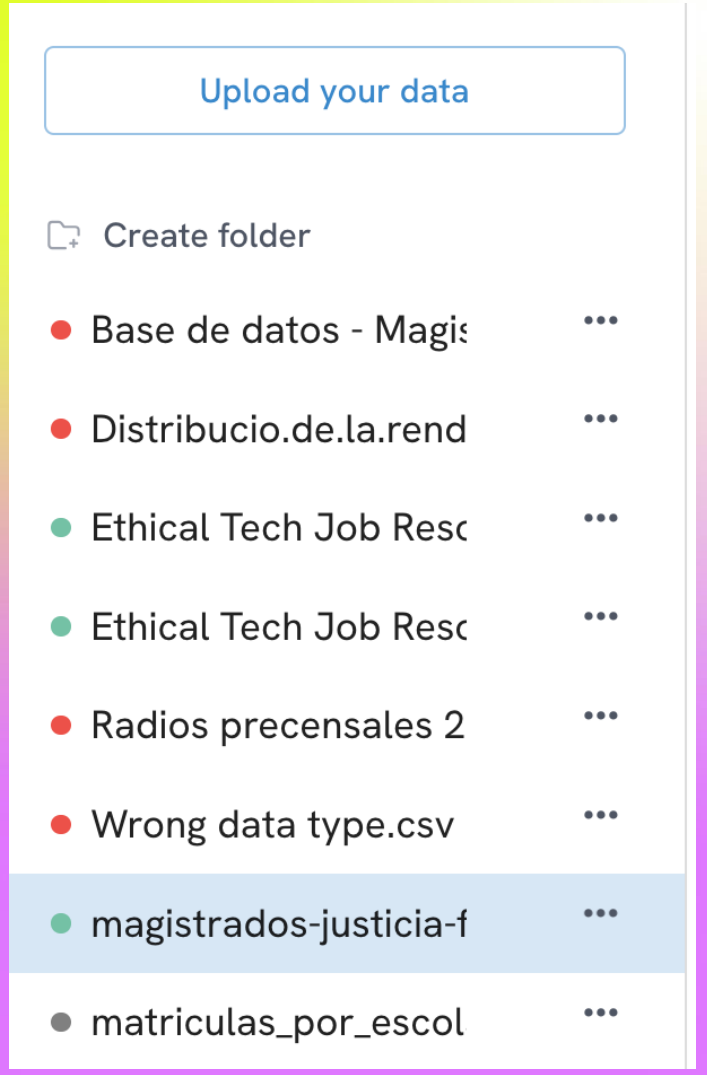
Help

Resource

resource

A simple format to describe and package a single data resource such as a individual table or file.

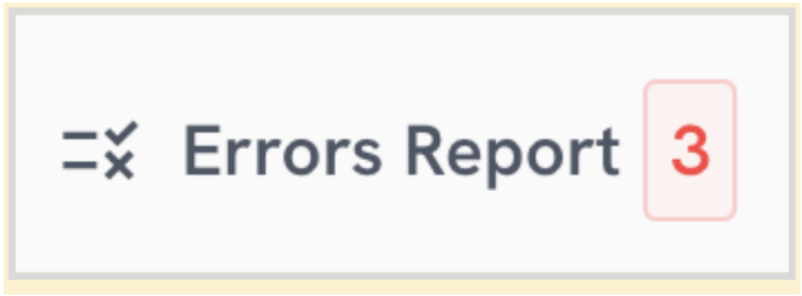
LEARN MORE



🚨 Users also struggled to understand if ODE found errors in their files. In the app the Errors report gets activated only if errors are found, but this was not clear for the users.

🚨 The ODE takes errors explanations from Frictionless. Since Frictionless is mostly used by technical people, the potential users of the ODE found errors description difficult to comprehend.

💡 We decided to include an error counter to clearly show problematic files. Since this change was implemented while user testing sessions were in progress we had the opportunity to test the change and the people we reached out to provide a positive reaction.



User guide

✅ Almost all users agreed that the ODE's user guide was clear and help them understand how the app and its features work.

🚨 The main challenge that we face here is that, although participants read the documentation before the user testing session, we know this is not a common practice when people use apps, so we should not rely on documentation as an element that will address all questions users may have. There are some clarifications that will imply technical changes and user interface work.

ODE main changes

Open Data Editor

Upload your data

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Rename

Open file Location
The ODE folder where this file exists

Delete file
Only removes this element from the ODE folder

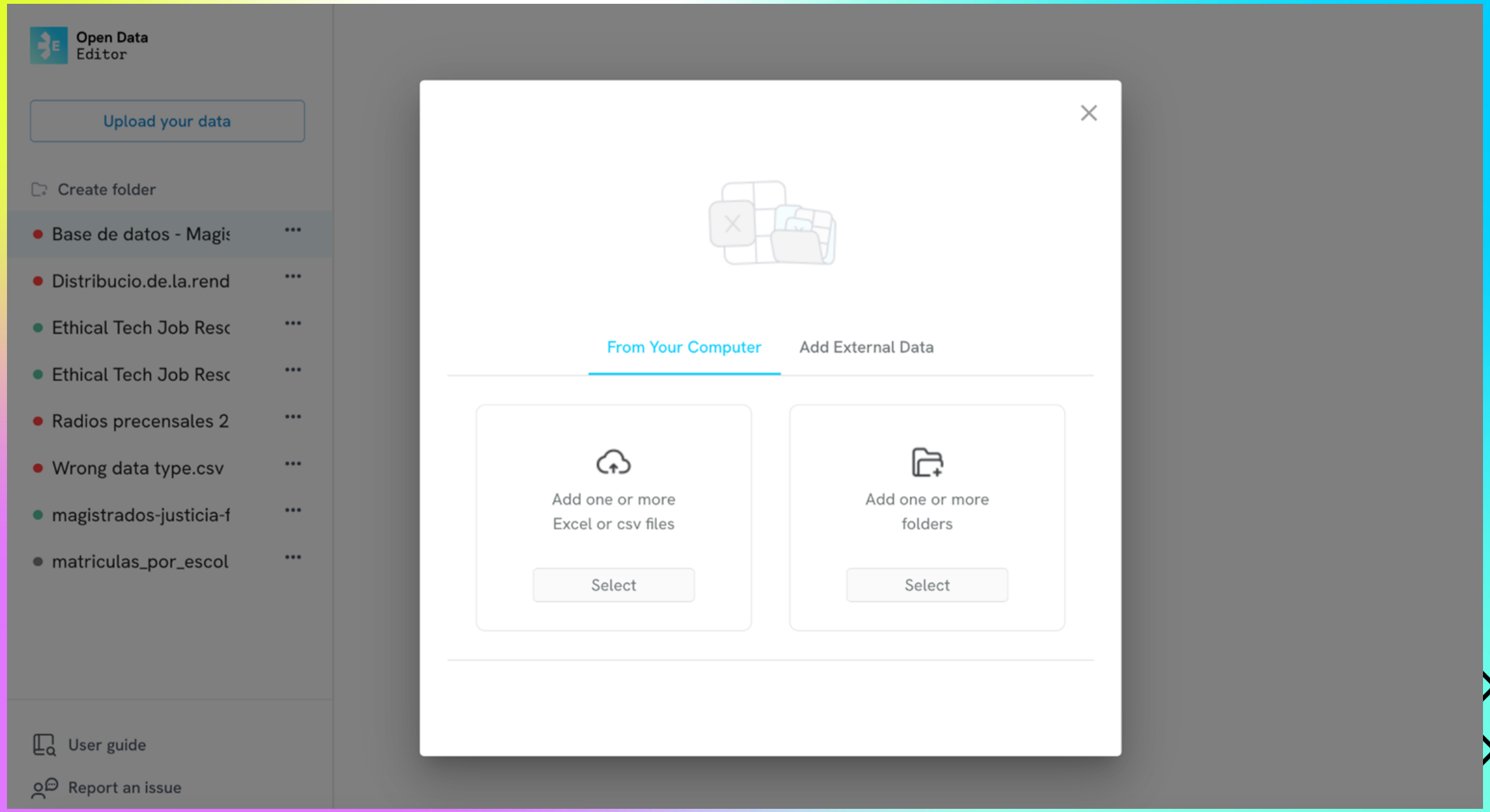
The ODE supports Excel & csv files

Upload your data

You can also add links to online tables

User guide

Report an issue


Open Data
Editor
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Wrong data type.csv
magistrados-justicia-f
matriculas_por_escol
User guide
Report an issue
From Your Computer
Add External Data
Add one or more
Excel or csv files
Select
Add one or more
folders
Select

Open Data Editor

Upload your data

Create folder

- Base de datos - Magis
- Distribucio.de.la.rend
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User guide

Report an issue

From Your Computer | Add External Data

Link to the external table:

Enter or paste URL

Add

Open Data Editor

Upload your data

Create folder

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User guide

Report an issue

Metadata | Errors Report 1 | Source | Undo | Redo | AI | Publish | Save changes

	col1	col2
2	1	2
3	3	4
4	5	6
5	7	8
6	9	10
7	11	12
8	13	14
9	15	16
10	17	18
11	19	20
12	21	bad

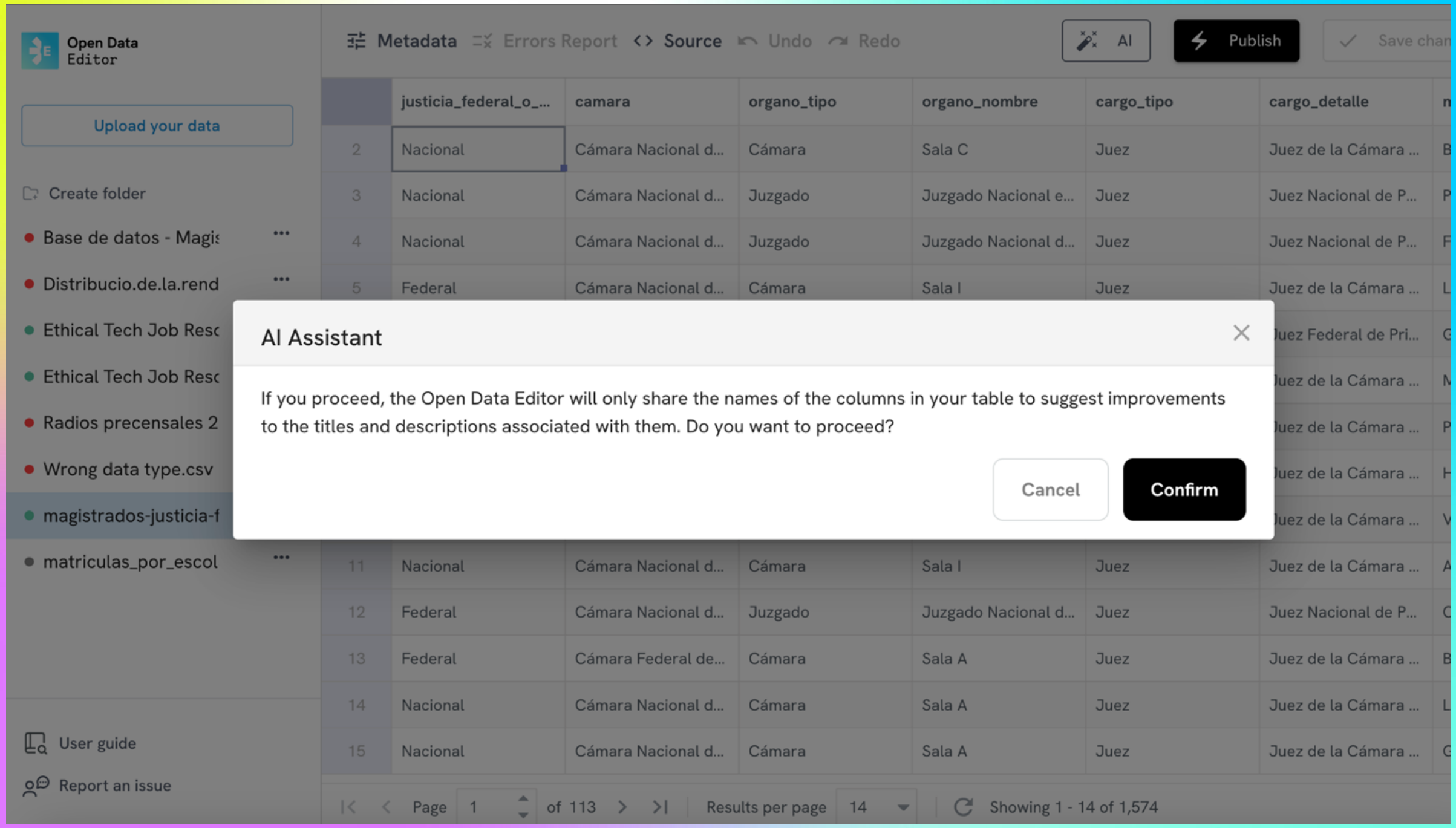
Page 1 of 1 | Results per page 14 | Showing 1 - 11 of 11

Metadata | Errors Report 1 | Source | Undo | Redo | AI | Publish | Save changes

Type Error 1

The value does not match the schema type and format for this field.

Row Number	Col1	Col2
12	21	bad
13		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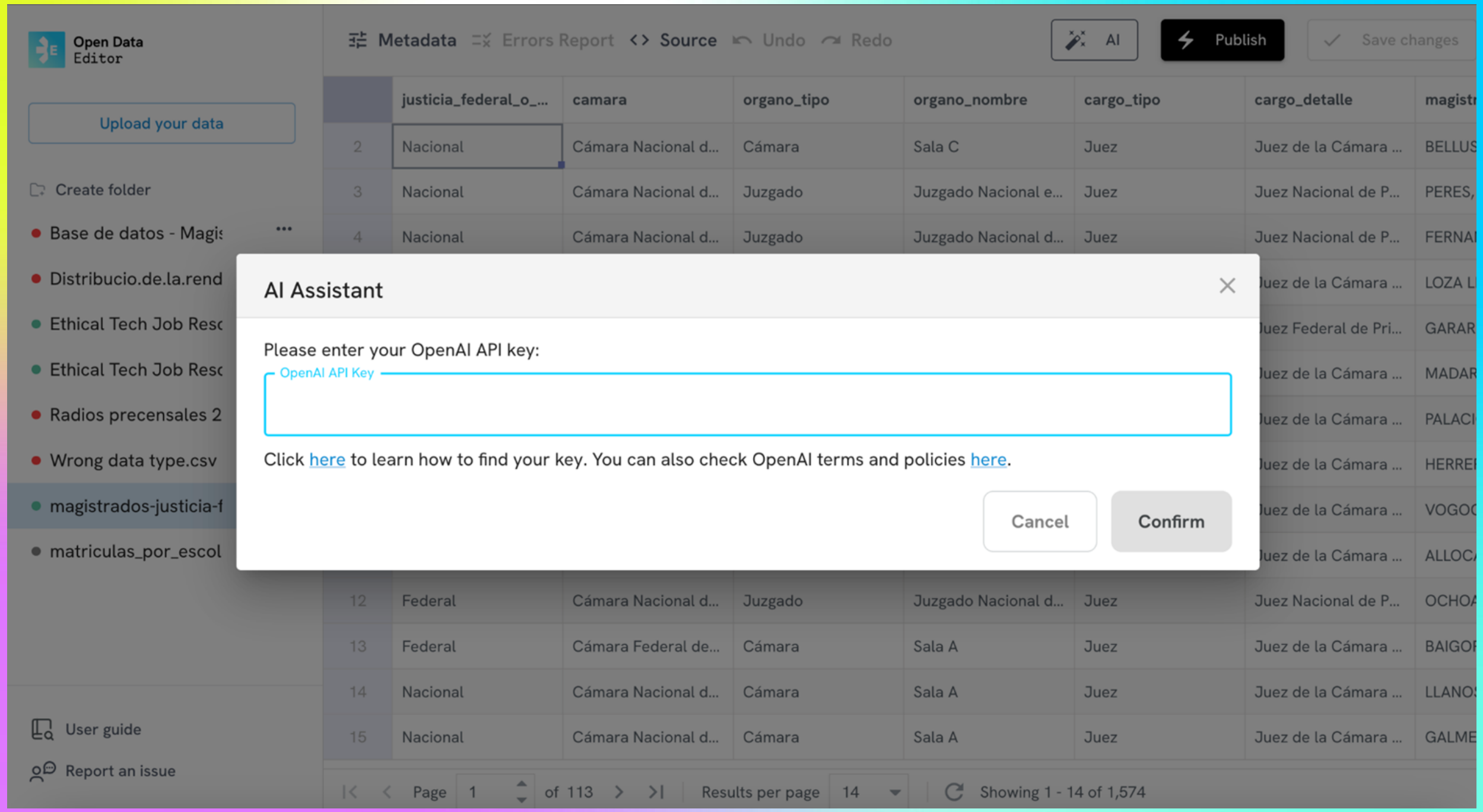
4 Nacional Cámara Nacional d... Juzgado Juzgado Nacional d... Juez Juez Nacional de P...
5 Federal Cámara Nacional d... Cámara Sala I Juez Juez de la Cámara ...
AI Assistant
If you proceed, the Open Data Editor will only share the names of the columns in your table to suggest improvements to the titles and descriptions associated with them. Do you want to proceed?
Cancel
Confirm
11 Nacional Cámara Nacional d... Cámara Sala I Juez Juez de la Cámara ...
12 Federal Cámara Nacional d... Juzgado Juzgado Nacional d... Juez Juez Nacional de P...
13 Federal Cámara Federal de... Cámara Sala A Juez Juez de la Cámara ...
14 Nacional Cámara Nacional d... Cámara Sala A Juez Juez de la Cámara ...
15 Nacional Cámara Nacional d... Cámara Sala A Juez Juez de la Cámara ...
Page 1 of 113
Results per page 14
Showing 1 - 14 of 1,574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15 Nacional Cámara Nacional d... Cámara Sala A Juez Juez de la Cámara ... GALME
Page 1 of 113
Results per page 14
Showing 1 - 14 of 1,574
AI Assistant
Please enter your OpenAI API key:
OpenAI API Key
Click here to learn how to find your key. You can also check OpenAI terms and policies here.
Cancel
Confirm

AI Assistant

Here are the suggested improvements to the column names along with descriptions for each:

1. **jurisdiction_type**
    - **Description**: Indicates whether the jurisdiction is federal or national.
2. **court_chamber**
    - **Description**: The specific division or chamber of the court.
3. **organ_type**
    - **Description**: The type of the entity or governmental body involved.
4. **organ_name**
    - **Description**: The name of the specific entity or governmental body.
5. **position_type**
    - **Description**: The classification or category of the position held.
6. **position_details**

OK

The approach of the Open Data Charter

Natalia Carfi
CEO, Open Data Charter

data europa academy

ODC
open data charter

Open Data Charter Principles

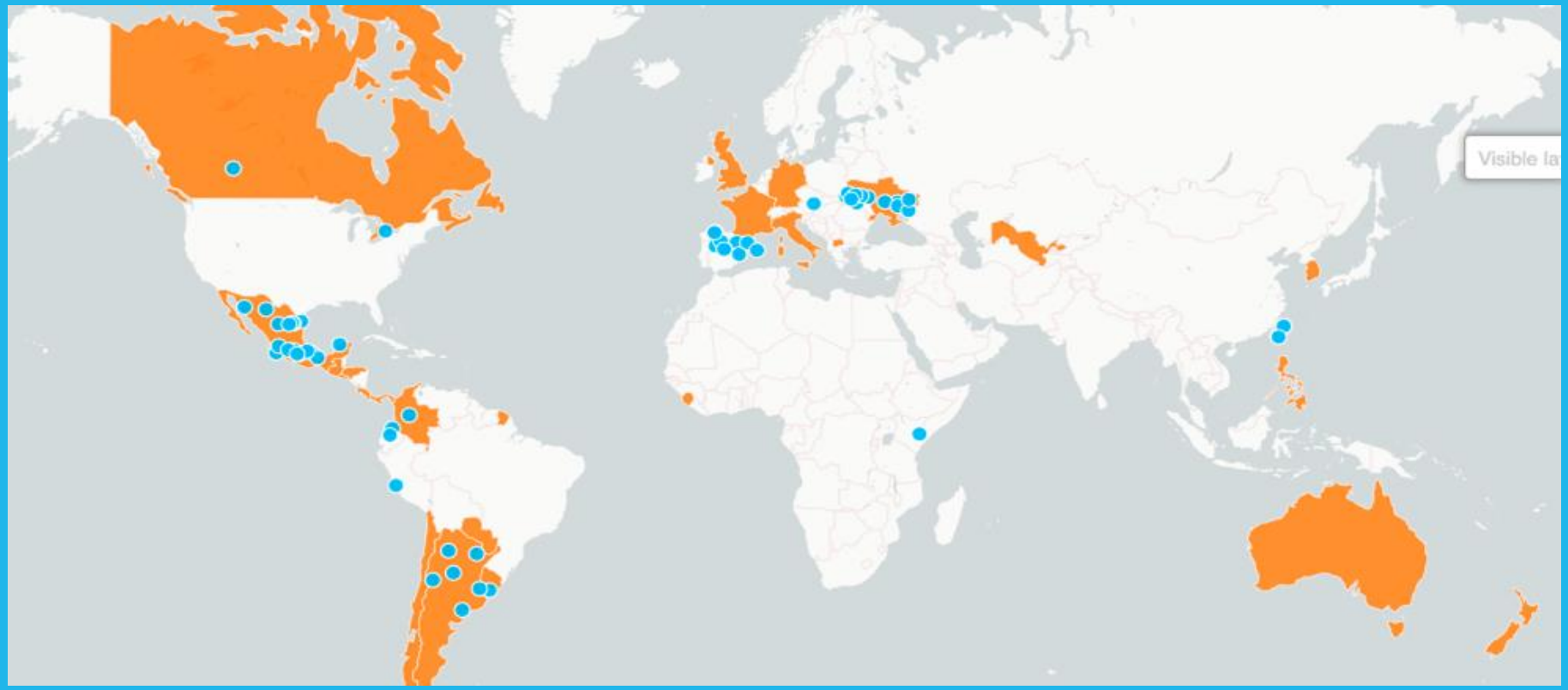
"From data to metadata: enhancing quality across borders"

March| 2025

Open data is digital data that is made available with the technical and legal characteristics necessary for it to be freely used, reused, and redistributed by anyone, anytime, anywhere.

Open Data Charter

opendatacharter.org



The Open Data Charter is a collaboration between +200 governments and experts working to open up data. It was founded in 2015 around six principles for how governments should be publishing information.

6 global principles

Open by default

Timely and comprehensive

Accessible and usable

Comparable and interoperable

For Improved Governance and Citizen Engagement

For Inclusive Development and Innovation

1. Open by Default

open data charter

1. Data held by national, regional, local & city governments, international government bodies, wider public sector, & data created for governments/public
2. Government data is of value of society & economy
3. Global development & adoption of resources, standards, & policies for the creation, use, exchange, & harmonization of open data
4. Will not compromise right to privacy, citizens have right to influence collection & use of personal data

2. Timely and Comprehensive

open data charter

1. Human & technical resources to identify data for release/publication
2. Importance of consultation to prioritize data for release/improvement
    - including with citizens, government, civil society, private sector
1. To be of value data must be comprehensive, accurate, and high quality

3. Accessible and Useable

open data charter

1. Opening up data enables governments, citizens, civil society, and private sector organizations to make more informed decisions
2. Open data should be discoverable and accessible, without bureaucratic or administrative barriers

4. Comparable and Interoperable

open data charter

1. Data should be easy to compare within and between sectors, location, and time
2. Data should be presented in structured and standardized formats to support interoperability, traceability, and effective reuse

5. For Improved Governance and Citizen Engagement

open data charter

1. Release of open data improves transparency, strengthens government, rule of law, and trust in public institutions
2. Improved civic engagement and better development, implementation, and assessment of programs and policies
3. Citizens, civil society, and private sector can help to highlight what data should be prioritized
4. City and local governments have a crucial role in citizen engagement

6. For Inclusive Development and Innovation

open data charter

1. Importance of openness in stimulating creativity and innovation
2. Identify social and economic challenges, facilitating sustainable development
3. Open data is an equitable resource but can be limited by global digital divide
4. Government's role does not end with the release of data, it must take active role in understanding and reuse of data

Adoption Mechanism

open data charter

- Aims to find a balance between achieving **high level political support/commitments**; while **avoiding burdensome entry barriers** that that could hinder adoption.
- The proposal is to ask for a high-level public statement (*Head of State, Secretary, Minister, Governor, Mayor, etc.*) with the following characteristics:

1. Statement of support towards the Open Data Charter and its principles;
2. Appointment of key areas or individuals responsible for following the work around the Open Data Charter; and
3. Outlining the mechanism(s) through which the principles of the Open Data Charter will be operationalized by the country/city/local government (*ex. OGP National Action Plan, Open Data Action Plans, national/local Open Data implementation policies, etc.*)

Open Up Guides

- Key datasets
- How data could be collected, stored, shared and published
- Good data policies and frameworks, including metadata, standards and governance frameworks if available;
- Existing gaps or challenges in the policies and frameworks; and
- Use cases from real-life examples

Photo by John Schnobrich on Unsplash

High value datasets

Complete Airtable

Data quality- lessons learned from implementations

opendatacharter.org

1

When possible, use open data standards from the start of the implementation

2

Disaggregation into multiple institutions at the time of data generation is one of the main challenges.

3

Data interoperability projects take a long time to be implemented

4

Measure and keep measuring- continuous data quality monitoring

Data quality- lessons learned from implementations

opendatacharter.org

5

Establish metrics BEFORE measuring

6

Data quality dimensions: completeness, uniqueness, timeliness, validity, accuracy, consistency

7

Data interoperability + PEOPLE interoperability

8

Thematic implementations: expert discussions tend to go deeper faster

ODC
open data charter

Thanks!!

Natalia Carfi
nati@opendatacharter.org

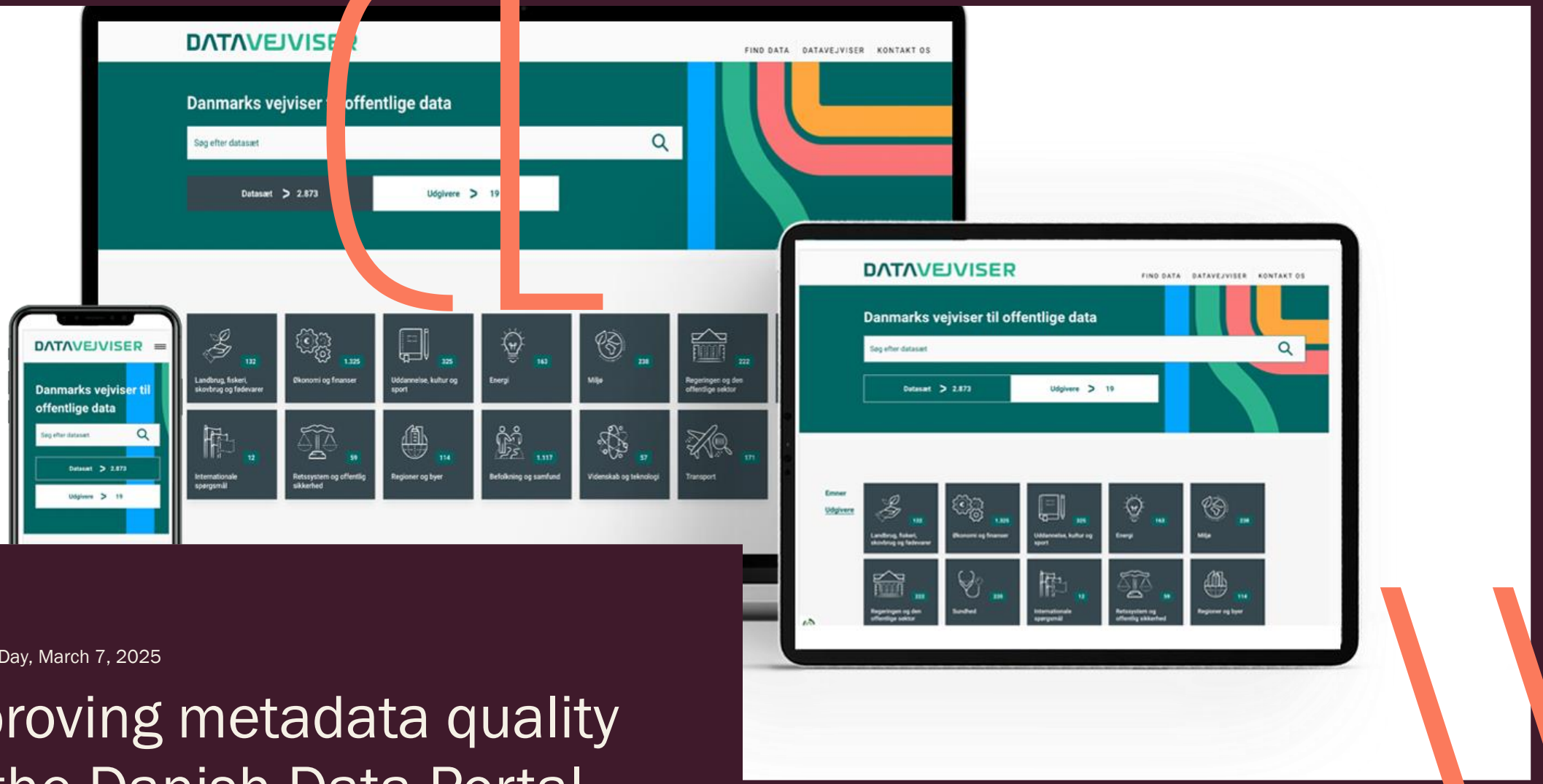
opendatacharter.com
@opendatacharter

Improving metadata quality on the Danish Data Portal

Christian Nicolai Larsen
Policy Officer, Danish Agency for Digital Government

data europa academy

Agency for Digital Government

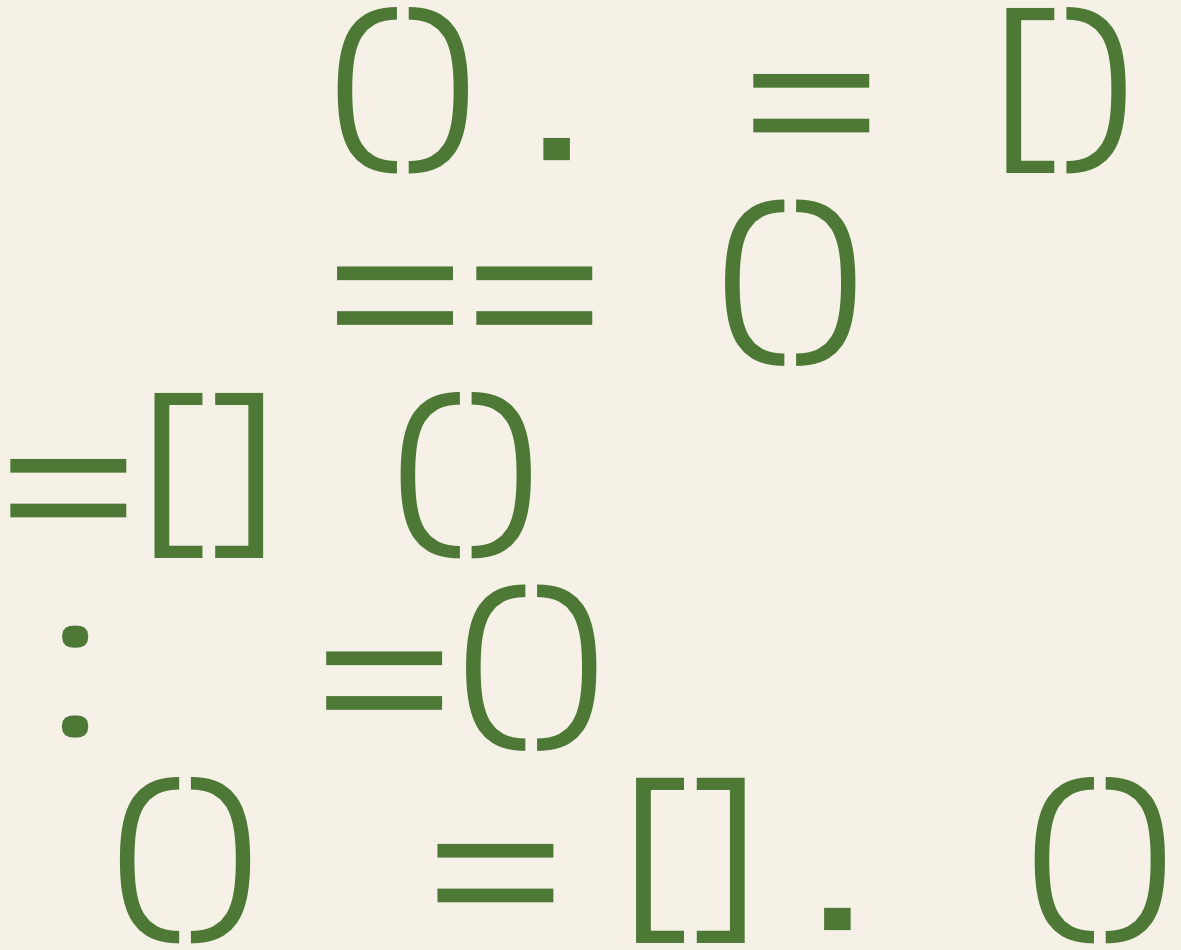


Open Data Day, March 7, 2025

Improving metadata quality on the Danish Data Portal

Agenda

- The relationship between data quality and metadata quality
- Introduction to Datavejviser, the Danish national data portal
- Metadata quality: How do we measure it, why should we worry about it, and how do we improve it?
- One way to make it easier for European public authorities to create and maintain high quality metadata



The relationship between data quality and metadata quality

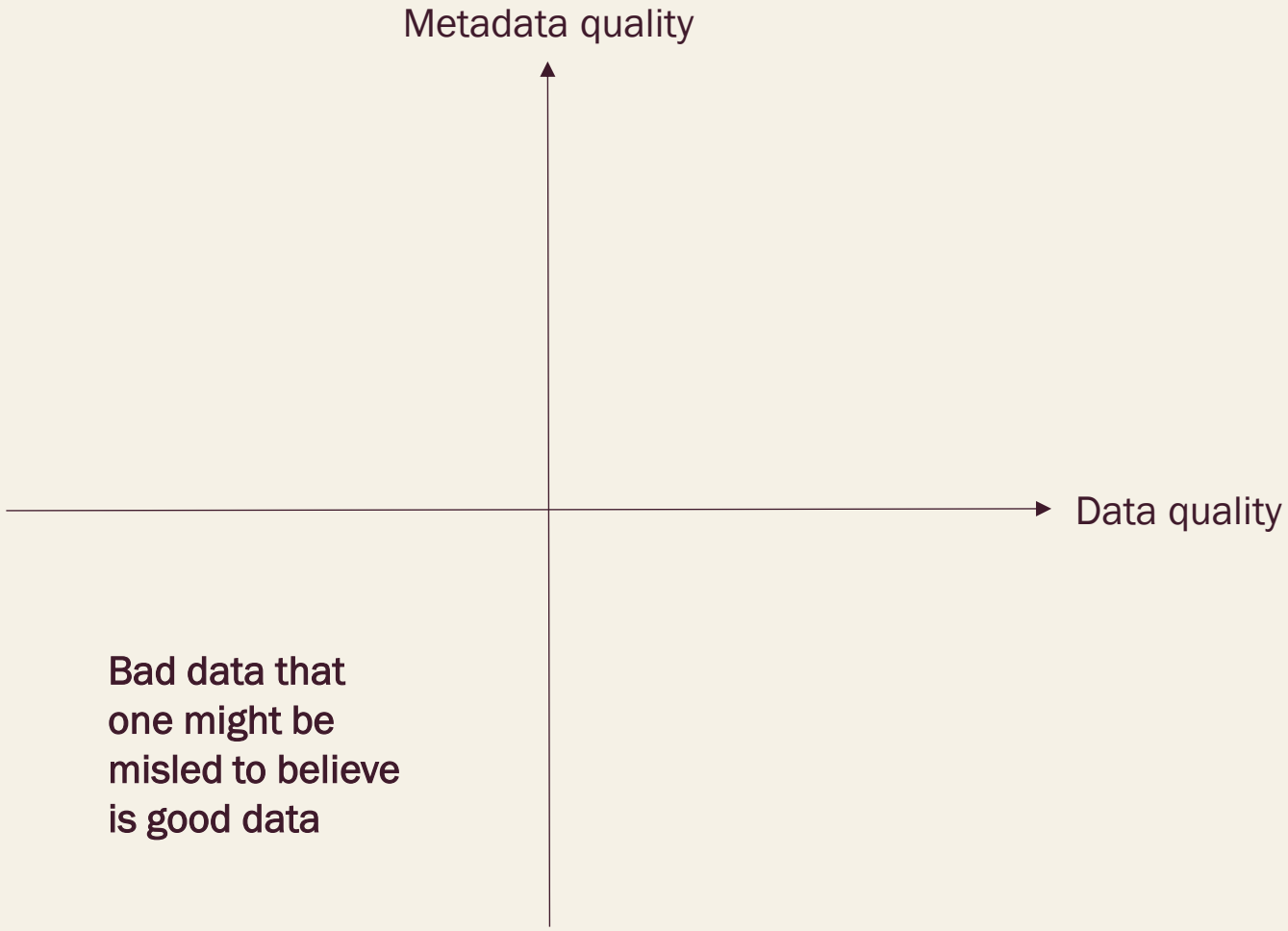
- Is not additive:
  - Utility of data sharing = Data quality + metadata quality

The relationship between data quality and metadata quality

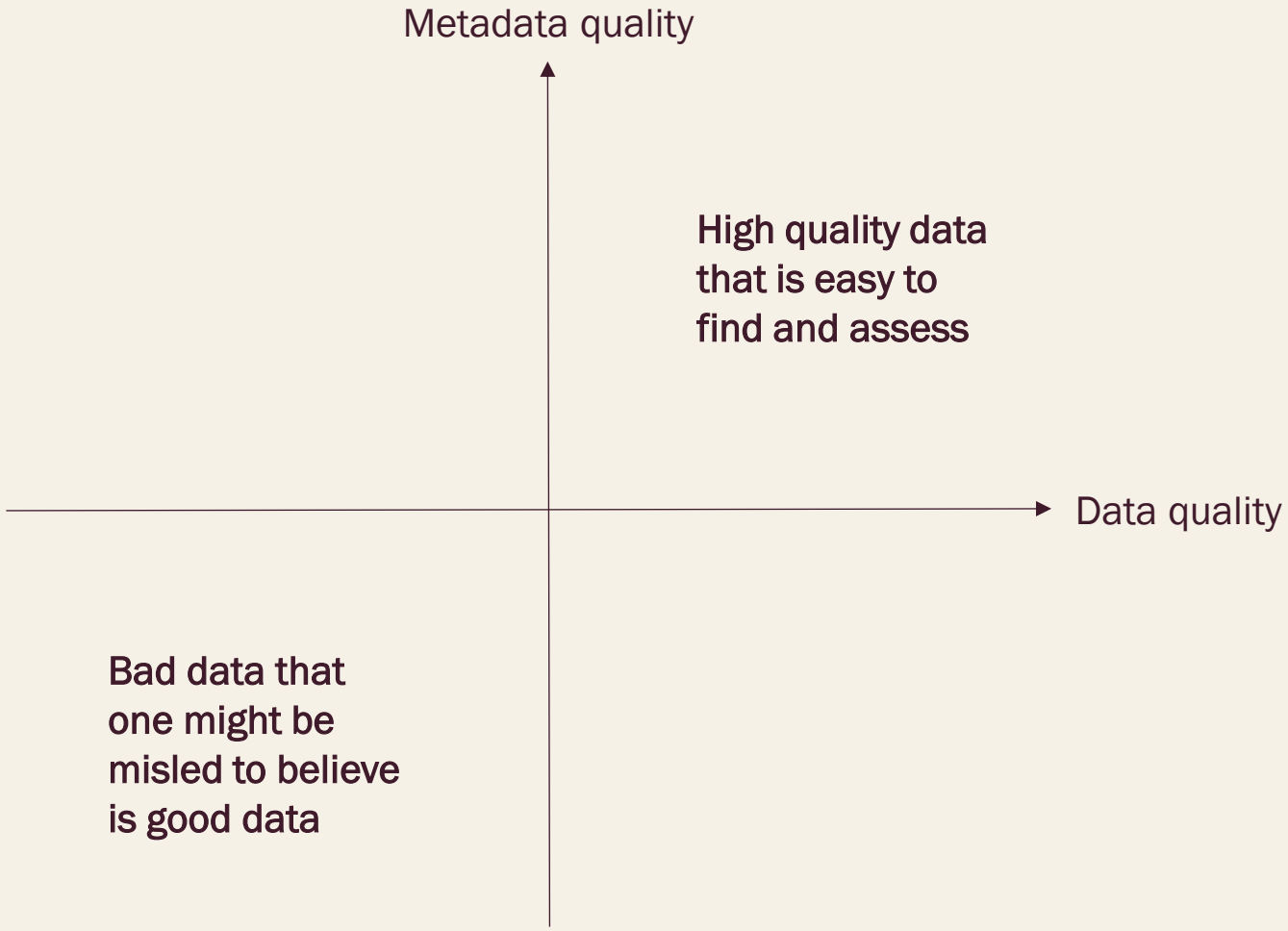
- ~~Is not additive:~~
  - ~~Utility of data sharing = Data quality + metadata quality~~
- But multiplicative:
  - Utility of data sharing = Data quality × metadata quality

The relationship between data quality and metadata quality

The relationship between data quality and metadata quality



The relationship between data quality and metadata quality



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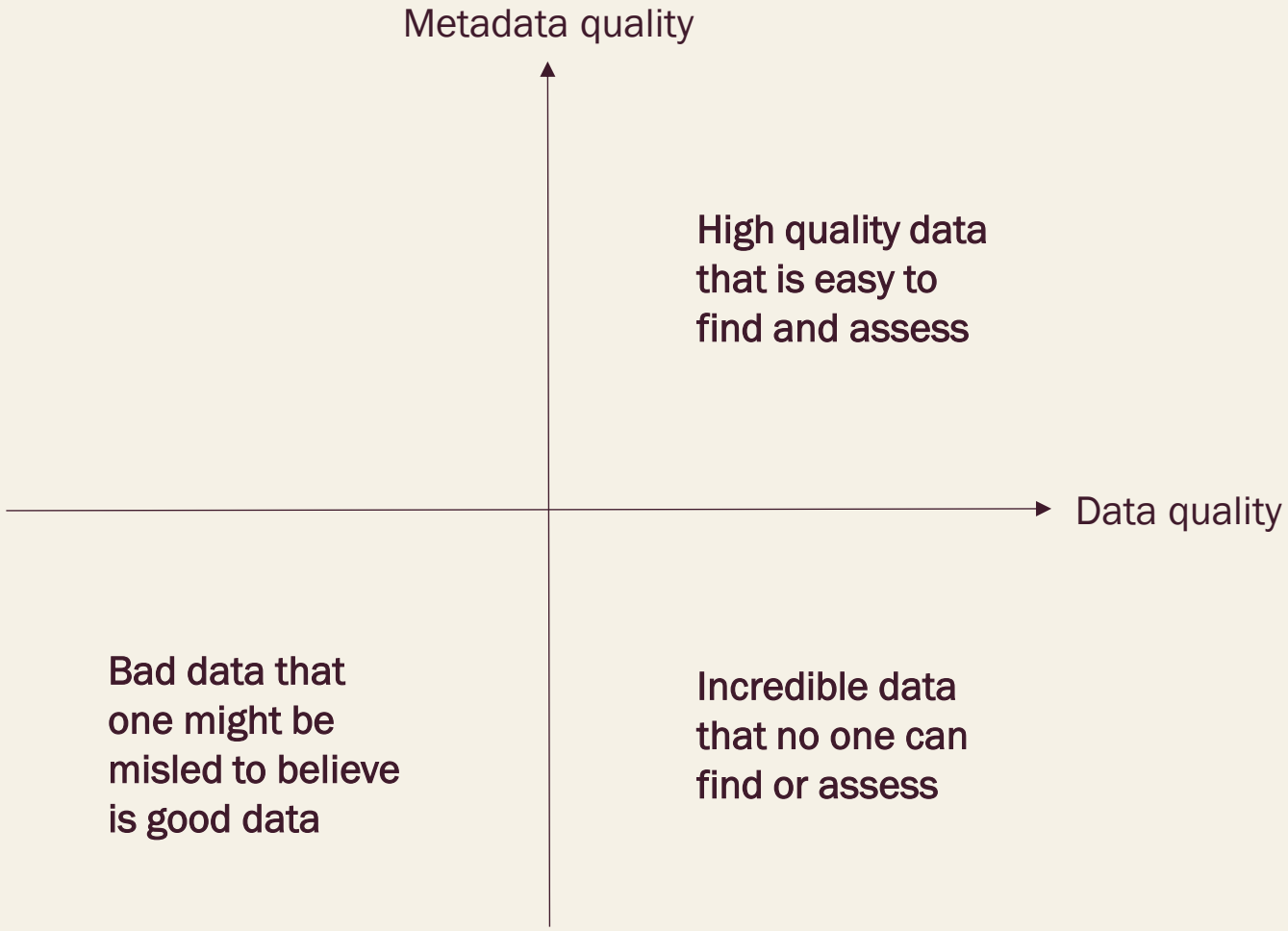

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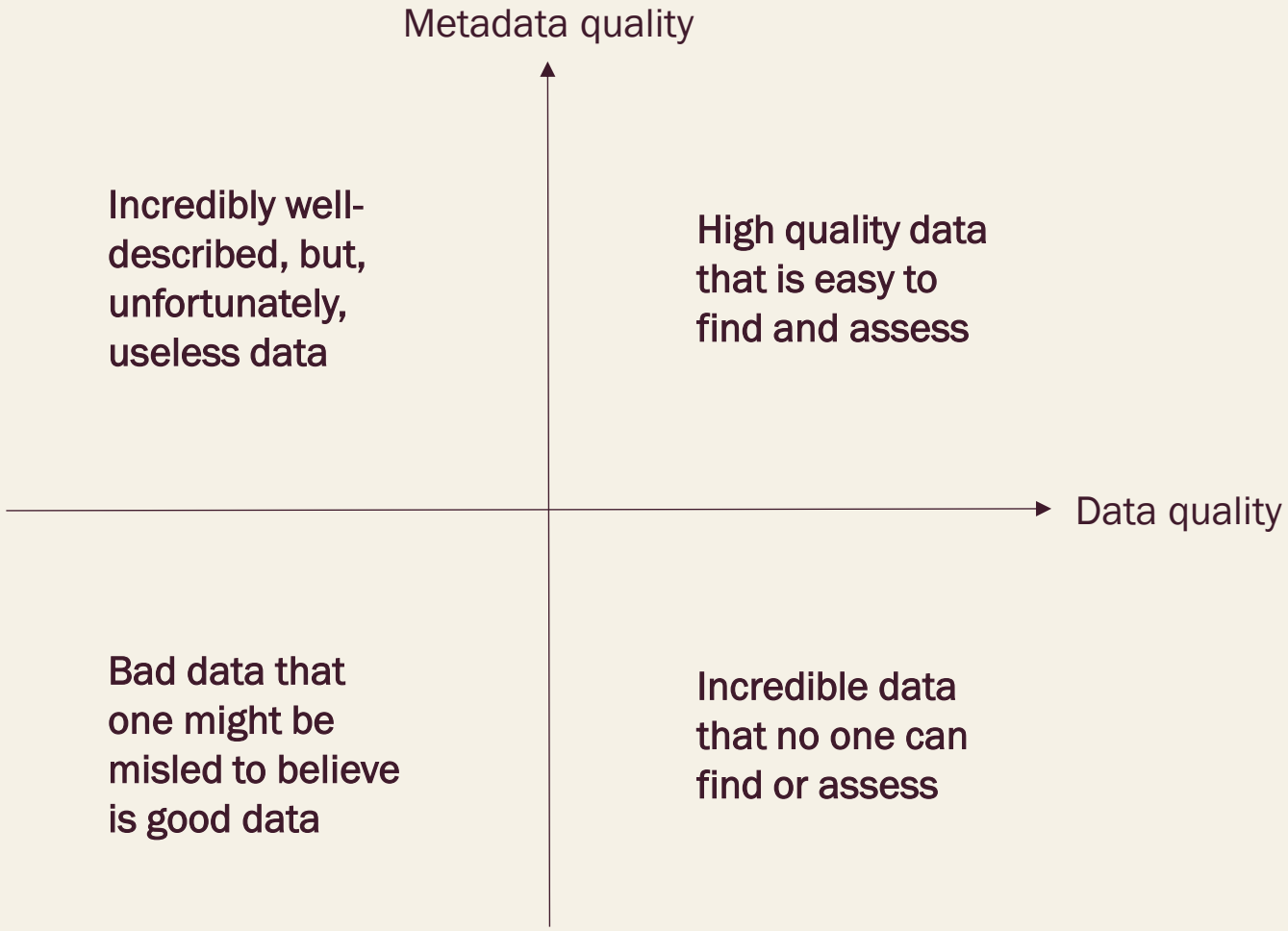
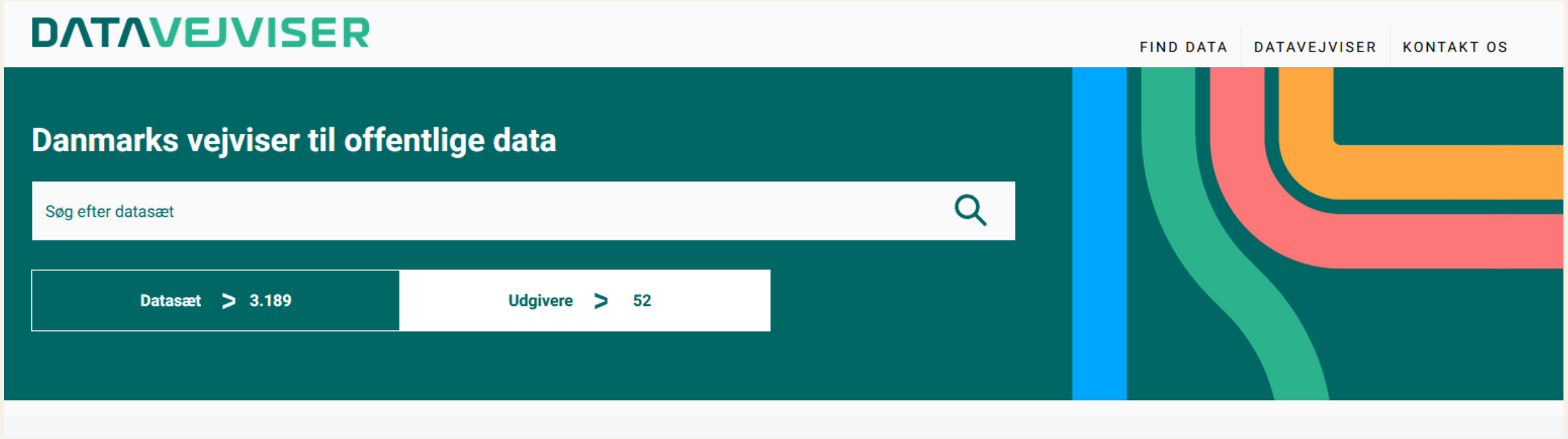


Datavejviser is the single point of access for Danish public sector data



Why does Datavejviser focus more on metadata quality than data quality?

We *do* also care about data quality and support efforts across the public sector that deal with this matter

A number of recent projects in the Danish public sector have improved data quality and availability considerably

The EU legislation that we are charged with implementing specifically stipulates the provision of metadata

A good metadata catalogue is useful as an inventory to identify where further data quality improvements are needed

Easier to generalise good practice than for data quality, which is very domain-specific and context-dependent

To make matters more meta: We are also very interested in metadata *about* data quality, especially in light of the AI Act, EHDS act etc., which emphasize such metadata

CASE: Beierholm working with tax authority API

Accounting and consulting firm with ~2,000 employees on 42 locations around Denmark

Discovered API access to tax authority data using Datavejviser
The APIs enable automated data acquisition vis-à-vis the status quo where customers' tax data used for accounting purposes were imported manually

Time saved: Expected to free up 8,200 employee-hours per year when fully implemented

The data quality of the product was improved by using automatically collected rather than manually transferred data

Many data providers and catalogues contribute metadata to Datavejviser, which is then forwarded to DEU and others

Datavejviser basics and metadata sources

- Metadata catalogue – no storage or distribution of actual data
- Data model: DCAT-AP-DK
- 3,000+ datasets from 50+ public sector publishers
- Catalogue for ODD and DGA data (and supports federation of metadata from other legislation, e.g. ITS/NAP, EHDS, etc.)
- CKAN backend (harvesting, metadata storage, rdf endpoint), React frontend
- Once-only entry of metadata for publishers
- Automatic harvest and re-use of metadata with as few manual/proprietary fixes as possible

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Sprogteknologi.dk

OPEN DATA DK

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2. Single-publisher endpoints (e.g. employment data, national archives, energy data)

Jobindsats

Rigsarkivet

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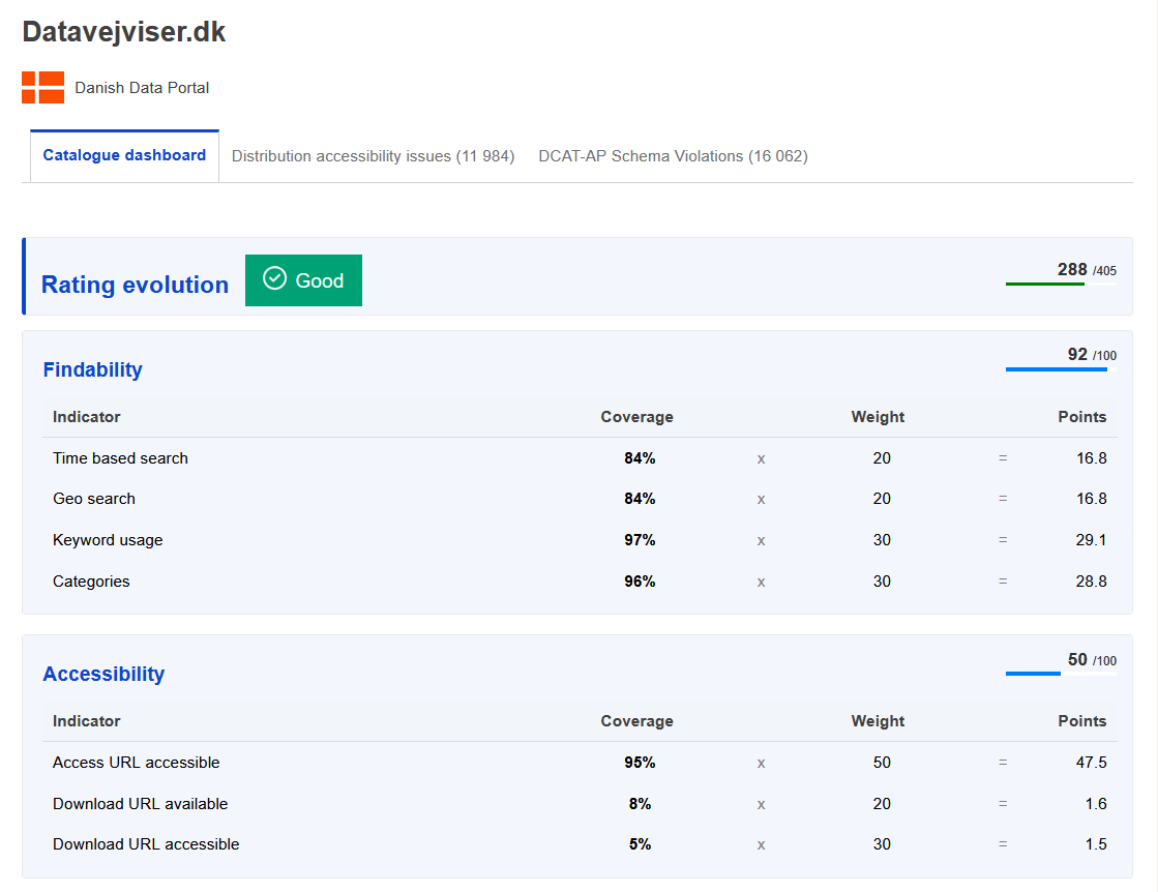
3. Single-publisher metadata entered into dedicated metadata entry portal (misc.)

Metadata quality: What is it, and how do we measure it?

- ”Quantitative” criteria and fixes
  - Automated checks for dead or inaccessible links
  - DCAT-AP conformance as measured through SHACL validation, DEU metadata quality dashboard (MQA), etc.
- Advantages:
  - Makes it transparent for publishers what they are being scored on
  - Incentivises actual improvement of the metadata at the national portals and data.europa.eu, which is the whole point



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- ”Quantitative” criteria and fixes
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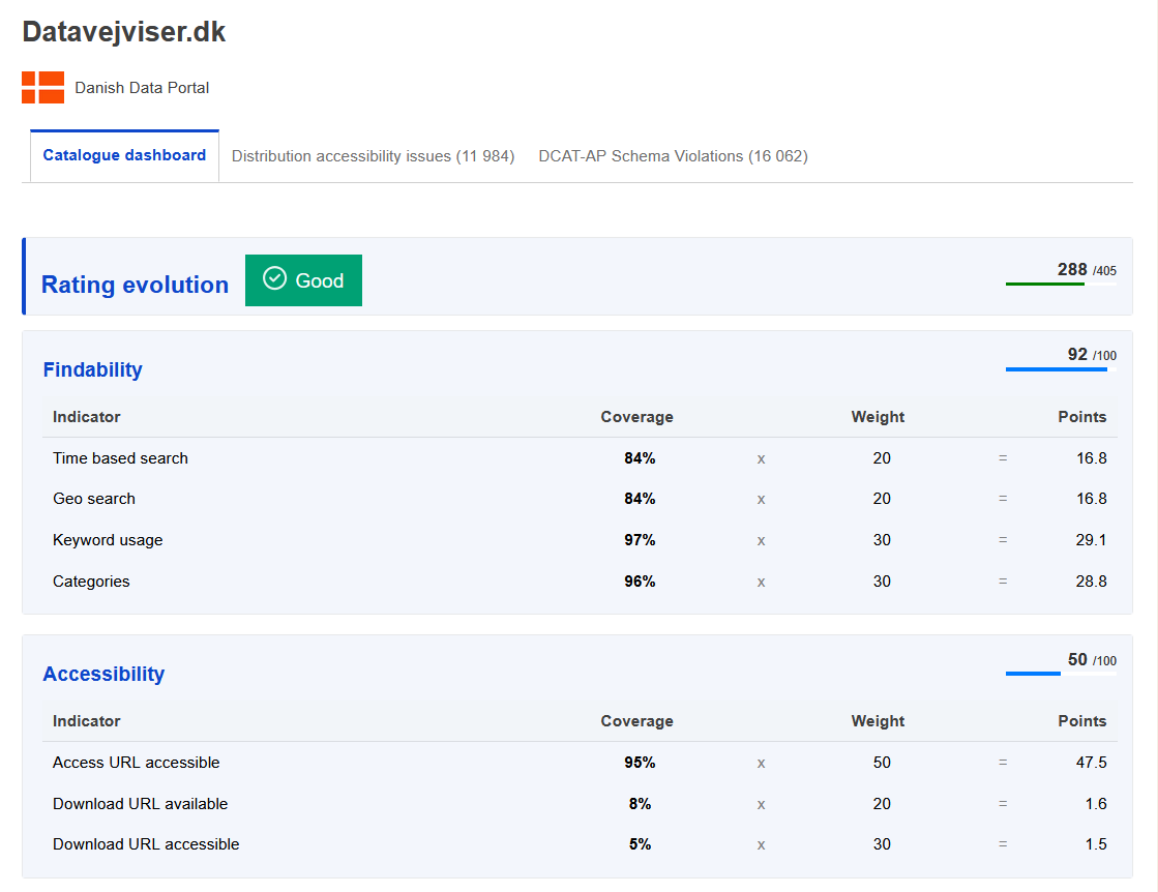
  - DCAT-AP conformance as measured through SHACL validation, DEU metadata quality dashboard (MQA), etc.
- Limitations:
  - Maximalist approach: Measures whether a dataset has, e.g., an associated keyword, but not whether that keyword is helpful for the user.
  - All datasets are weighted the same, although key registries may only amount to a few sets of metadata, the improvement of which then doesn’t count for much



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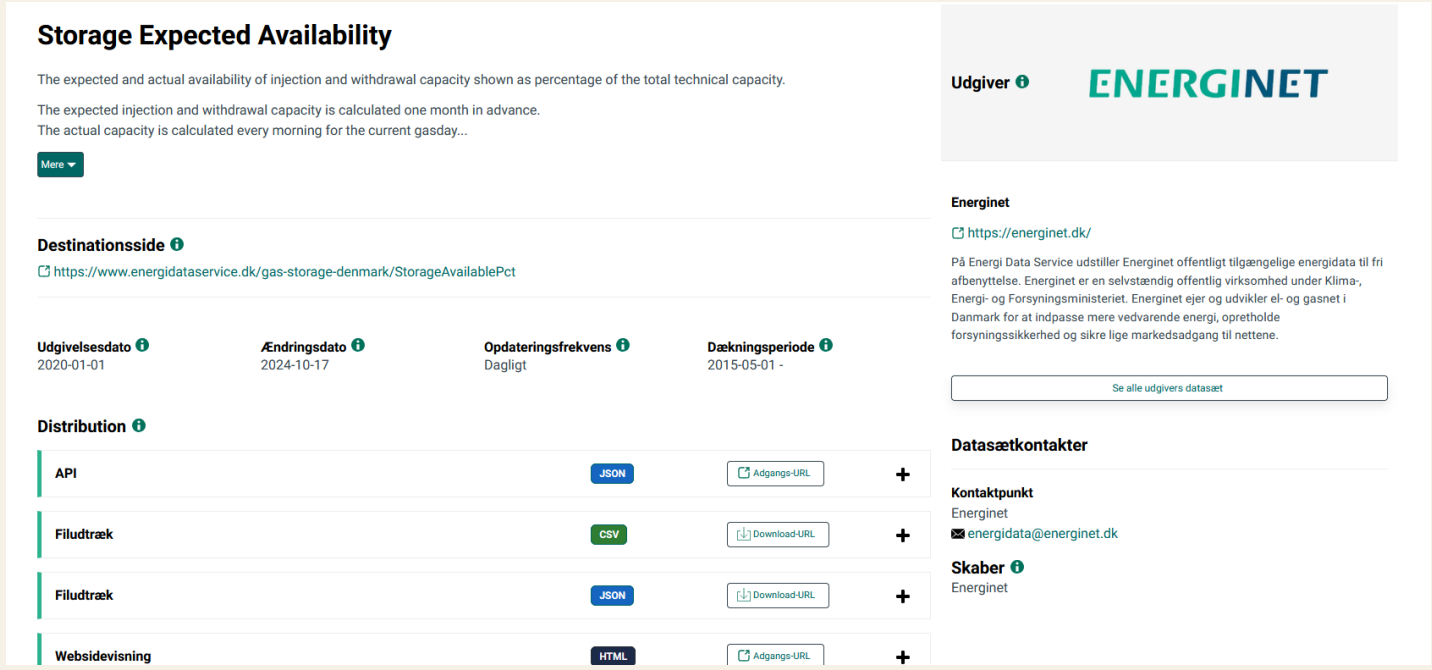

- ”Qualitative” criteria and fixes – a necessary supplement
  - Are the textual metadata elements, e.g. descriptions and provenance statements, well-written and reflective of the actual content of the data?
  - Is the user experience/journey intuitive and helpful?
  - Are the listed publisher name and description up to date? Political context entails frequent reorganization of the public sector
  - Limitations: Time-consuming, somewhat arbitrary

What do we do to improve metadata quality on Datavejviser?

- Help authorities navigate DCAT-AP and its dialects (MobilityDCAT-AP, GeoDCAT-AP, etc.).
- Make the most of opportunities presented by funding rounds, user demand, alignment with strategies for digitisation, and legal requirements to carry out wider metadata improvements in collaboration with publishers
- Make metadata DCAT-AP compliant as close to the source as possible – help and fund authorities building endpoints, offer metadata entry portal which is DCAT-AP compliant by design
- Highlight datasets that contain identifiers/keys that make them interoperable with other datasets (not yet fully implemented)
- Translate the CC license suite into Danish, work the licenses into the OP authority lists, reach a consensus across Danish government to recommend their use for open data

Policy process
Content

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Text

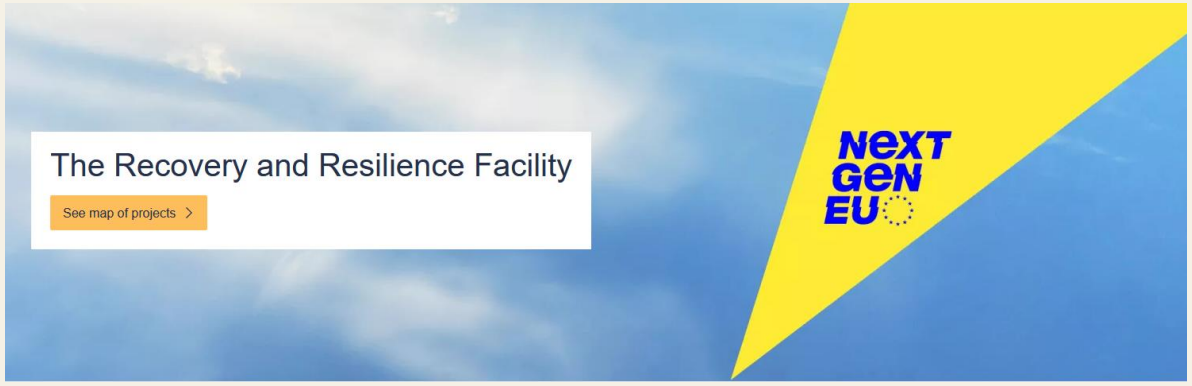
20.1.2023 EN Official Journal of the European Union L 19/43

COMMISSION IMPLEMENTING REGULATION (EU) 2023/138

of 21 December 2022

laying down a list of specific high-value datasets and the arrangements for their publication and re-use

(Text with EEA relevance)



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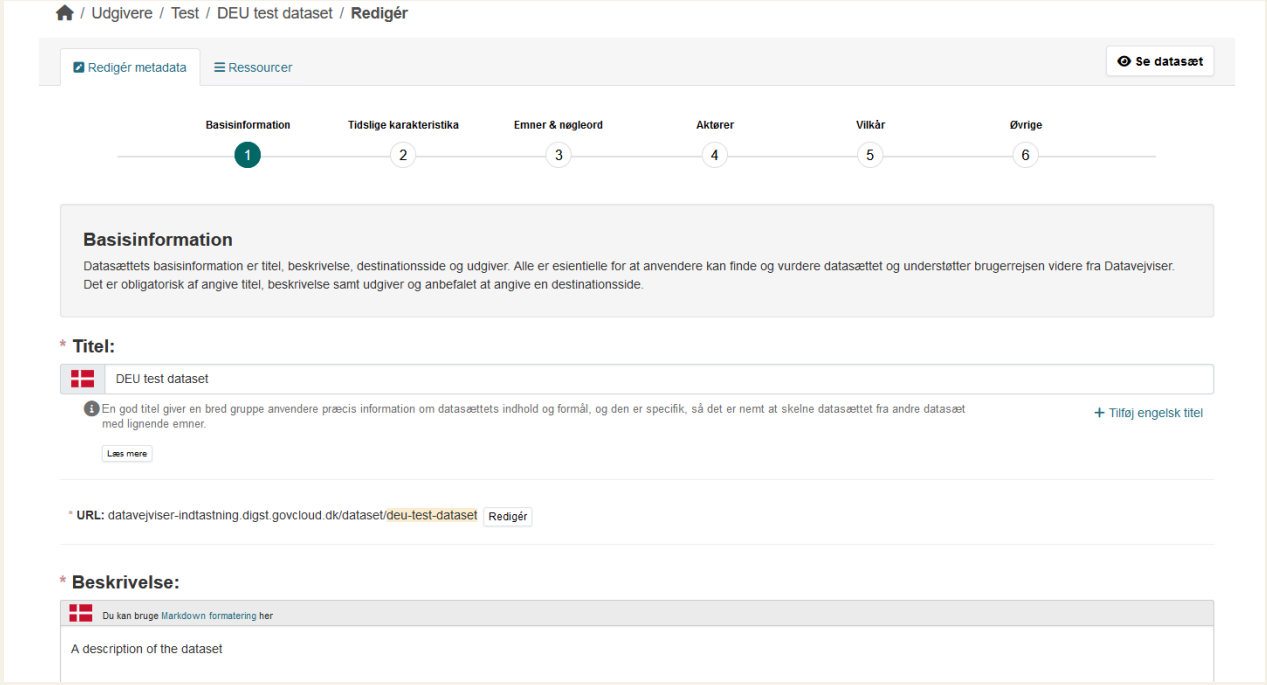
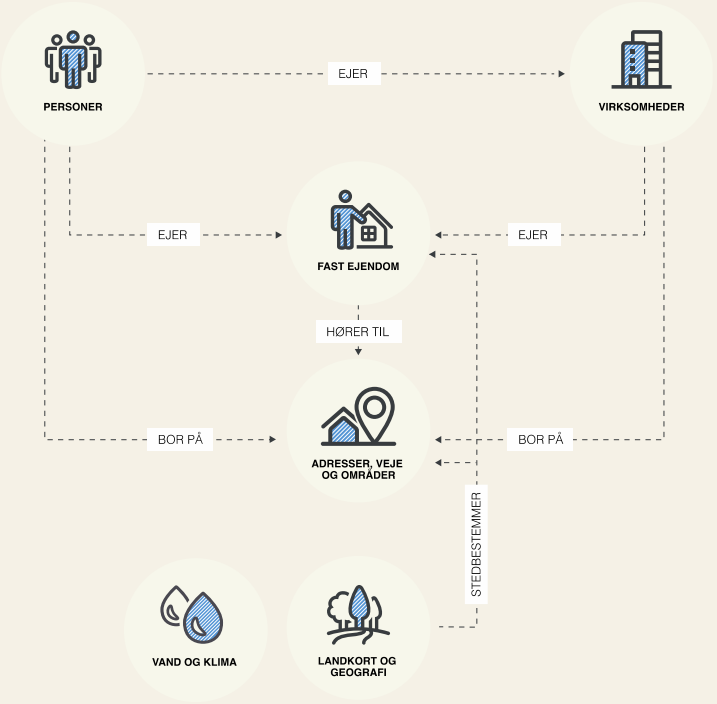


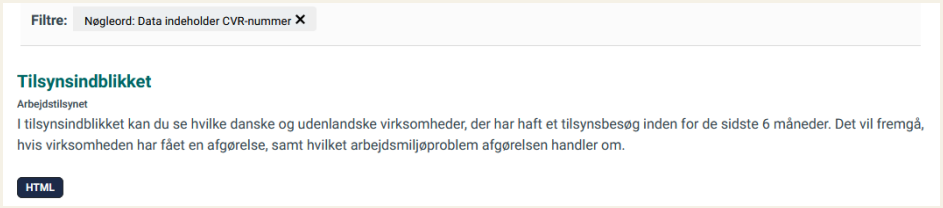
What do we do to improve metadata quality on Datavejviser?

- Highlight datasets that contain identifiers/keys that make them interoperable with other datasets (not yet fully implemented)

- Shared data model for basic data ensures interoperability between base registries

- Other datasets using the same shared keys (e.g. Central Business Register number) allows data to be combined – if users know this possibility exists. Thus, data and metadata quality complement each other.





- Full implementation would require use of a formalised catalogue of terms/keys.

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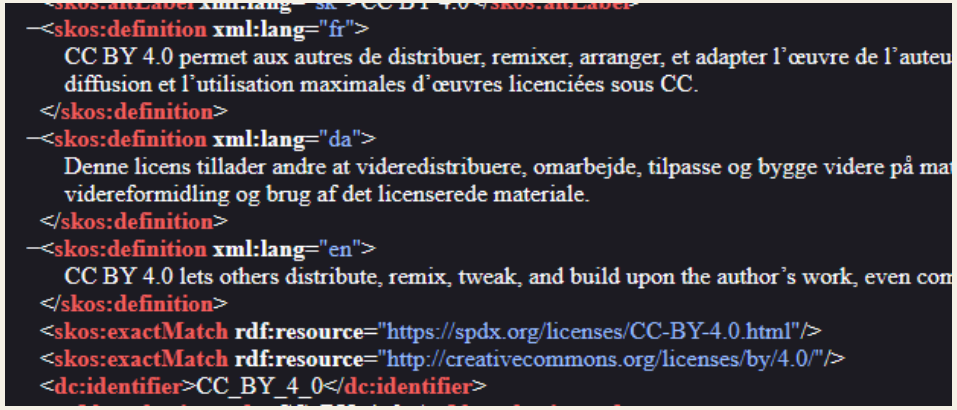
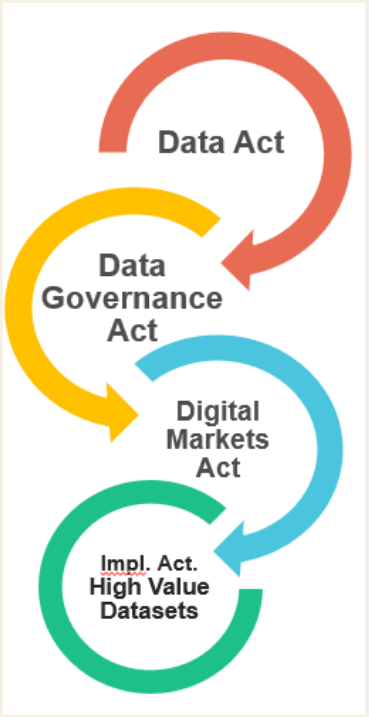


One way to make it easier to create and maintain high quality metadata: Tying together legal, semantic, and technical aspects



Etc.

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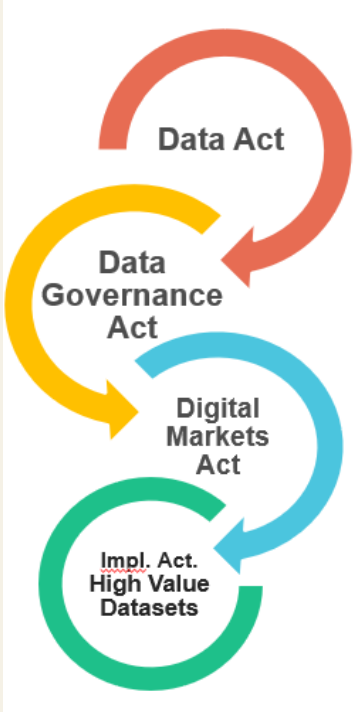

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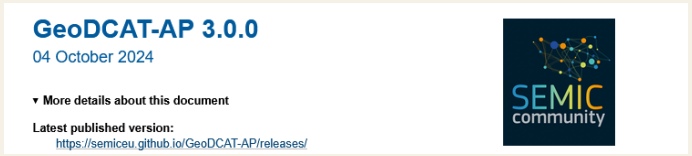

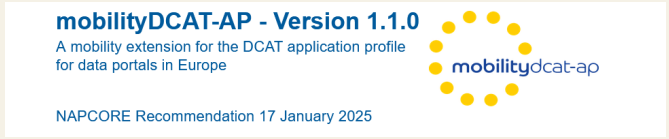

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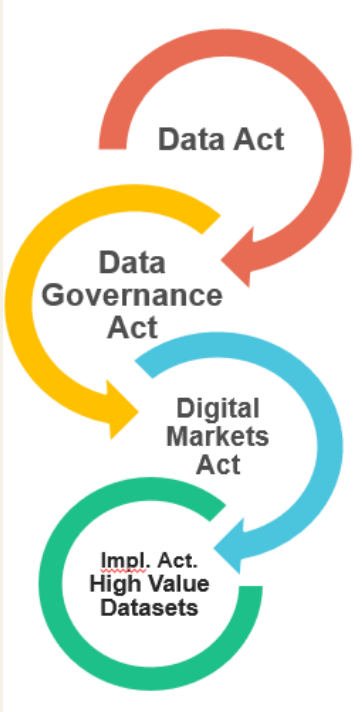

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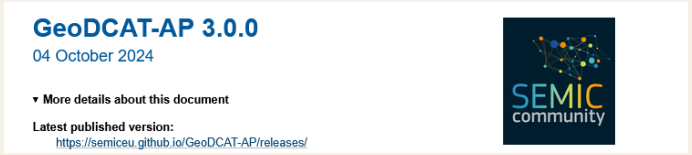

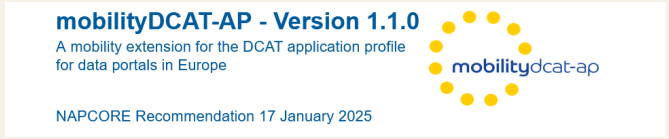

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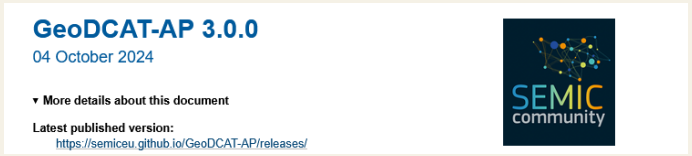

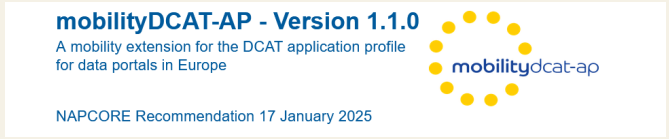

Thank you for listening!

DATAVEJVISER

A searchable catalogue of **metadata** describing available data from the public sector in Denmark. Datavejviser supplements and supports existing data distributions and makes it easier to find and validate data from various public authorities.

Datavejviser aims to:

- Increase findability of public data
- Gather and analyze demands for more data
- Contribute to enhance the availability of public data

Datavejviser is operated by the Danish Agency for Digital Government and can be visited at datavejviser.dk

Contact us at kontakt@datavejviser.dk

Finansieret af
Den Europæiske Union
NextGenerationEU

Digitaliseringsstyrelsen

Data and metadata quality by the data.europa.eu

data.europa academy

Data quality guidelines

Metadata quality assurance

European data

data.europa.eu The official portal for European data

Home | Data | EU Open Data Days | Academy | Community | Publications | Documentation

Home > Metadata Quality Dashboard > Dashboard

Metadata quality

Dashboard | Catalogues | Methodology | Download as report

At the moment we are experiencing problems with the calculation of the metadata qua

Dimensions

The Metadata Quality Assurance is intended to help data providers and data portals to ch
which metrics we use for indicator measurements, please have a look at our methodology

This page provides a general overview of all metadata available to data.europa.eu. For a
Catalogues page and select the desired catalogue.

Rating evolution Sufficient

Findability

Indicator Covera

Overview

Catalogues: Top 12

Country	Name	Findability 100 Points	Accessibility 100 Points	Interoperability 110 Points	Reusability 75 Points	Contextuality 20 Points	Rating 405 Points
	SALTED Project (IOR)	100 / 100	100 / 100	80 / 110	65 / 75	15 / 20	360 / 405 Excellent
	Czech National Open Data Portal (CZE)	97 / 100	92 / 100	101 / 110	62 / 75	0 / 20	352 / 405 Excellent
	Executive Agency for Small and Medium-sized Enterprises (EUROPE)	100 / 100	100 / 100	60 / 110	75 / 75	15 / 20	350 / 405 Good
	European Political Strategy Centre (EU)	80 / 100	100 / 100	80 / 110	75 / 75	5 / 20	340 / 405 Good
	dati.gov.it (ITA)	100 / 100	41 / 100	99 / 110	75 / 75	20 / 20	335 / 405 Good

Q&A

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Danish Agency for Digital Government

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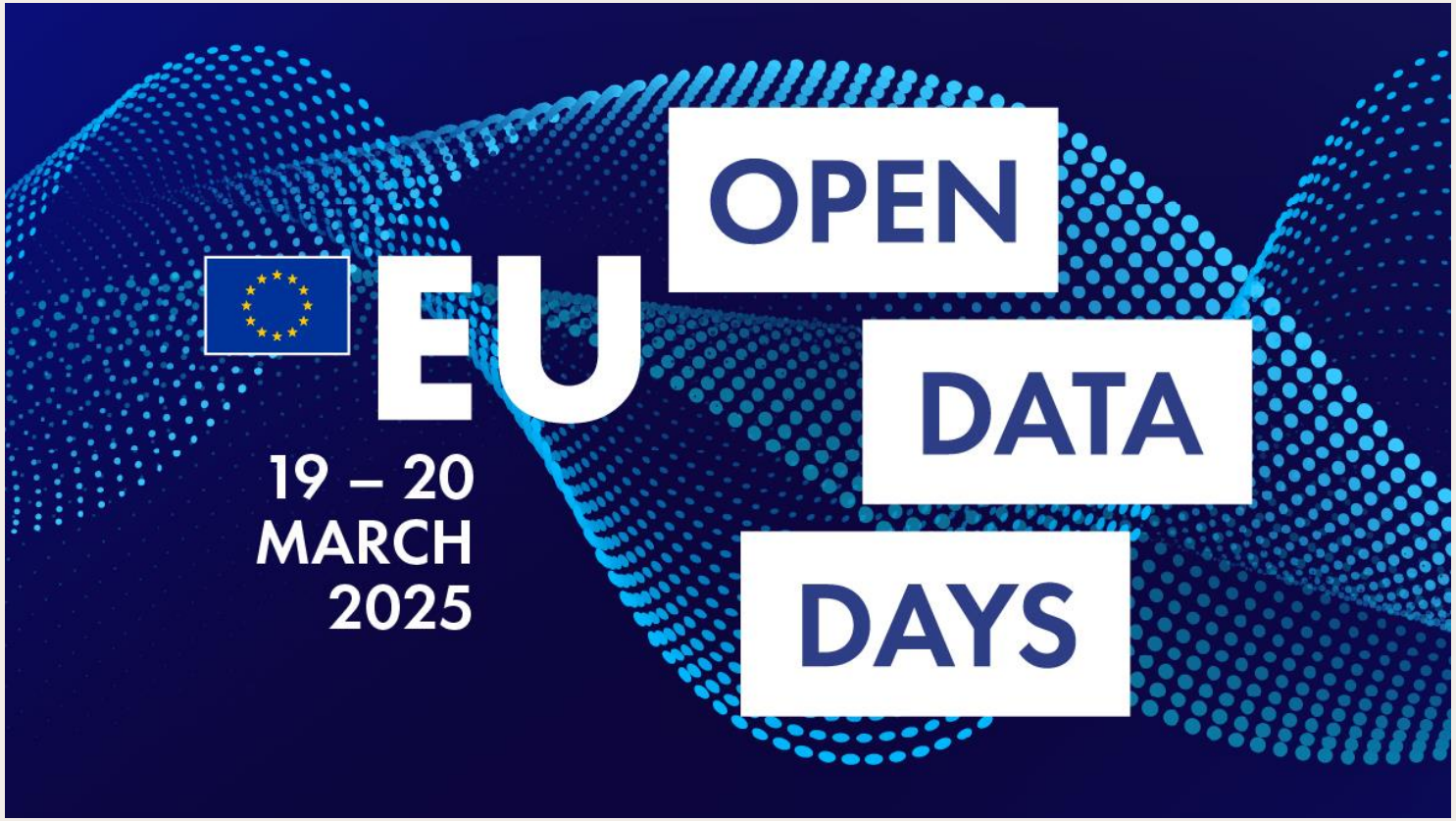

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Thank you!

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