



EUROPEAN  
DATA PORTAL

# Open Data for Open Cities

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## Agenda

-  The Open Data Portals of the EU
-  The European Data Portal – an overview
-  Creating value with Open Data
-  Open Data in Cities – Initiatives & Portals
-  Barriers in working with Open Data
-  Enabling Open Cities

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# Two EU Portals – One Mission: Open Data



## The European Data Portal (EDP)

### Access to data published by public administrations in Europe

EUROPEAN DATA PORTAL

Search site content...

European Data Portal

What we do - Data - Providing Data - Using Data - Resources -

Search Datasets

Enter keywords... Search

SPARQL Search

Browse Datasets by Categories

- Agriculture, Fisheries, Forestry & Foods
- Energy
- Regions & Cities
- Transport
- Economy & Finance
- International Issues
- Government & Public Sector
- Justice, Legal System & Public Safety
- Environment
- Education, Culture & Sport
- Health
- Population & Society
- Science & Technology
- Catalogues
- All data

Latest News

- Join the ECMWF Open Data Hack 2018 22/05/2018
- "From data to value" part 2 in Copenhagen on 24 May 2018 21/05/2018
- Workshop on a quality label for user-centric cities and regions on 23 May
- CEF Telecom calls virtual Info Day 16/05/2018

<https://www.europeandataportal.eu/>

## The Open Data Portal of the EU Institutions (ODP)

### Access to data published by EU institutions and bodies

EU Open Data Portal

Access to European Union open data

EUROPA > EU Open Data Portal > Home

Home Data Applications Linked data Visualisations -  $\beta$  Developers' corner About

The European Union Open Data Portal (EU ODP) gives access to data published by EU institutions and bodies. All the data you can find via this portal can be used for commercial or non-commercial purposes.

Show results with:

all of these words |  any of these words |  the

Search for metadata using our SPARQL endpoint query

Discover our datasets View datasets by s

Focus on

Antibiotic

<http://data.europa.eu/euodp/en/home/>

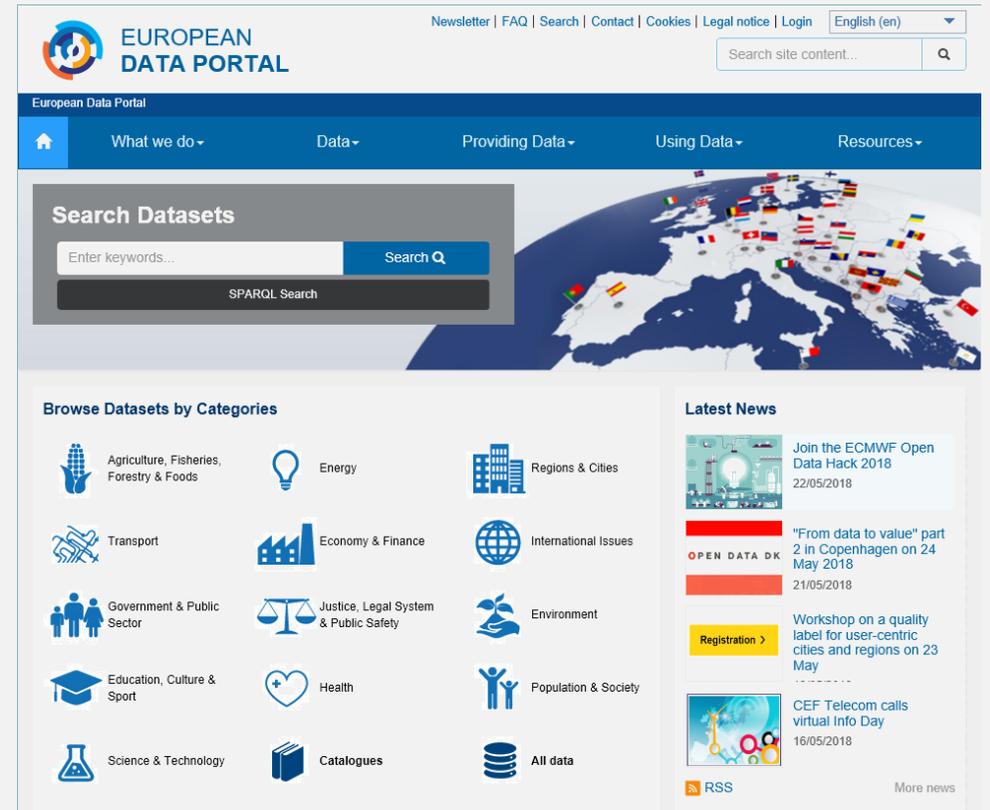
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# The European Data Portal in numbers

*The European Data Portal acts as gateway to access Open Data from public administrations in Europe*

- +860.000 metadata sets
- 78 catalogues (incl. 4 European catalogues)
- 34 countries covered
- 13 categories to structure metadata
- Metadata Quality Assistant (MQA) reports
- Static content + main metadata available in all 24 official EU languages
- Guidelines for data publishers
- 16 Open Data eLearning modules
- A vast library of training materials and +400 useful documentation n Open Data
- +300 Use Cases
- Daily Open Data News
- Calendar of +50 Open Data Events in 2018



The screenshot shows the European Data Portal homepage. At the top, there is a navigation bar with links for Newsletter, FAQ, Search, Contact, Cookies, Legal notice, and Login, along with a language selector set to English (en). Below this is a search bar with the text "Search site content..." and a magnifying glass icon. The main header features a blue navigation menu with options: Home, What we do, Data, Providing Data, Using Data, and Resources. The central area is titled "Search Datasets" and includes a search input field with the placeholder "Enter keywords..." and a "Search" button, as well as a "SPARQL Search" option. To the right of the search area is a map of Europe with various national flags. Below the search area, there is a section titled "Browse Datasets by Categories" with a grid of icons and labels for: Agriculture, Fisheries, Forestry & Foods; Energy; Regions & Cities; Transport; Economy & Finance; International Issues; Government & Public Sector; Justice, Legal System & Public Safety; Environment; Education, Culture & Sport; Health; Population & Society; Science & Technology; Catalogues; and All data. On the right side, there is a "Latest News" section with three news items: "Join the ECMWF Open Data Hack 2018" (22/05/2018), "From data to value" part 2 in Copenhagen on 24 May 2018 (21/05/2018), and "Workshop on a quality label for user-centric cities and regions on 23 May". There is also a "Registration" button and an "RSS" icon at the bottom of the news section.

# The EDP activities increase awareness and knowledge around Open Data in Europe



**Measurement and support**  
for Open Data growth in  
Europe

Monitoring of **Metadata**  
**Quality** in Europe

**Creating and documenting**  
Open Data **value**

**Community engagement**  
& communication

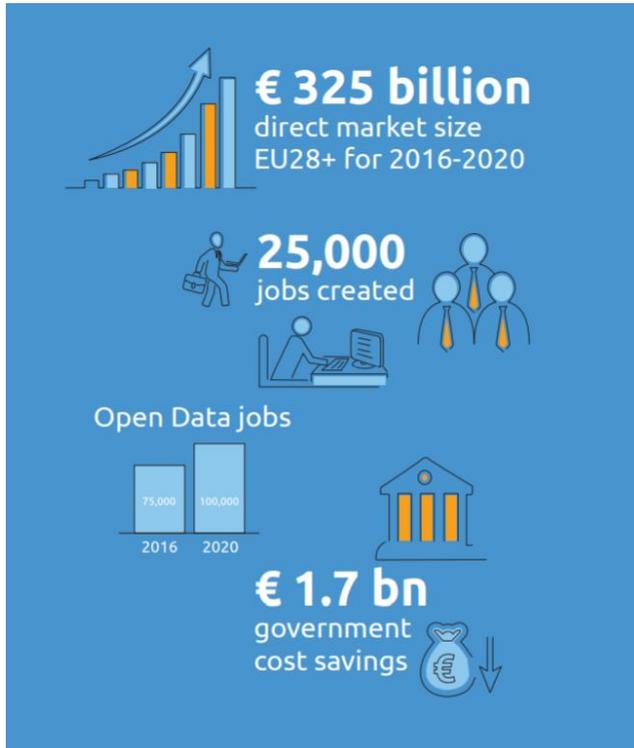


**Extensive library** of data sets  
**Guidelines** and **trainings** on how to publish  
data and get harvested by the EDP  
Infrastructure based on **open source** code

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# Showcasing the value of Open Data raises awareness of its benefits and potential



*Evidence about the impact helps rally further support for Open Data*

# Cities are the central hub for creating value through Open Data



## Enablers



*Open Data acts as enabler for creating smart cities*

# Successful Open Cities embed Open Data into their broader strategies

## Smart City Strategy

More specific Smart City Strategy, which could include Open Data (e.g. data generated by sensors etc.)

## Open Data Strategy

## Digital Strategy

Broad digital strategy, including for instance digital public services, smart city objectives, digitalisation of citizens and businesses

## Open Data Strategy

Specific strategy for publishing Open Data and stimulating the re-use

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# Open Data for Open Cities (I)

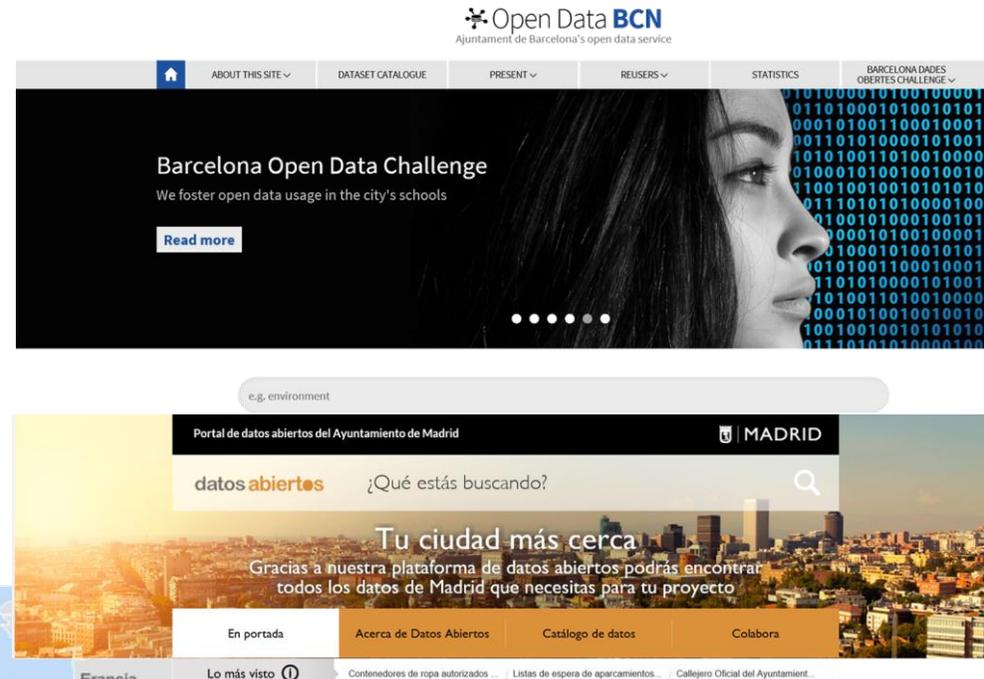
## Open Data Initiatives: Best practice – Spain



Administration Level
Local Administration (225)
State Administration (42)
Regional Administration (17)
Universities (9)

Subject
Public Sector (85)
Culture and Leisure (65)
Transport (60)
Environment (59)



Open Data BCN  
Ajuntament de Barcelona's open data service

Barcelona Open Data Challenge  
We foster open data usage in the city's schools  
[Read more](#)

e.g. environment

Portal de datos abiertos del Ayuntamiento de Madrid MADRID

datos abiertos ¿Qué estás buscando?

Tu ciudad más cerca  
Gracias a nuestra plataforma de datos abiertos podrás encontrar todos los datos de Madrid que necesitas para tu proyecto

En portada Acerca de Datos Abiertos Catálogo de datos Colabora

Lo más visto Contenedores de ropa autorizados... / Listas de espera de aparcamientos... / Callejero Oficial del Ayuntamiento...

# Open Data for Open Cities (II)

## Open Data Portals: Best practices – Dublin/ Ireland



Search Datasets...

Advanced Search

### IRELAND'S OPEN DATA PORTAL

Promoting innovation and transparency through the publication of Irish Public Sector data in open, free and reusable formats.

**8222** Datasets **101** Publishers

-  Agriculture, Fisheries, Forestry & Food
-  Arts, Culture and Heritage
-  Justice, Legal System, and Public Safety
-  Government and Public Sector
-  Health
-  Housing and Zoning

### DublinDashboard City Intelligence



Homepage About DublinDashboard



Dublin Overview



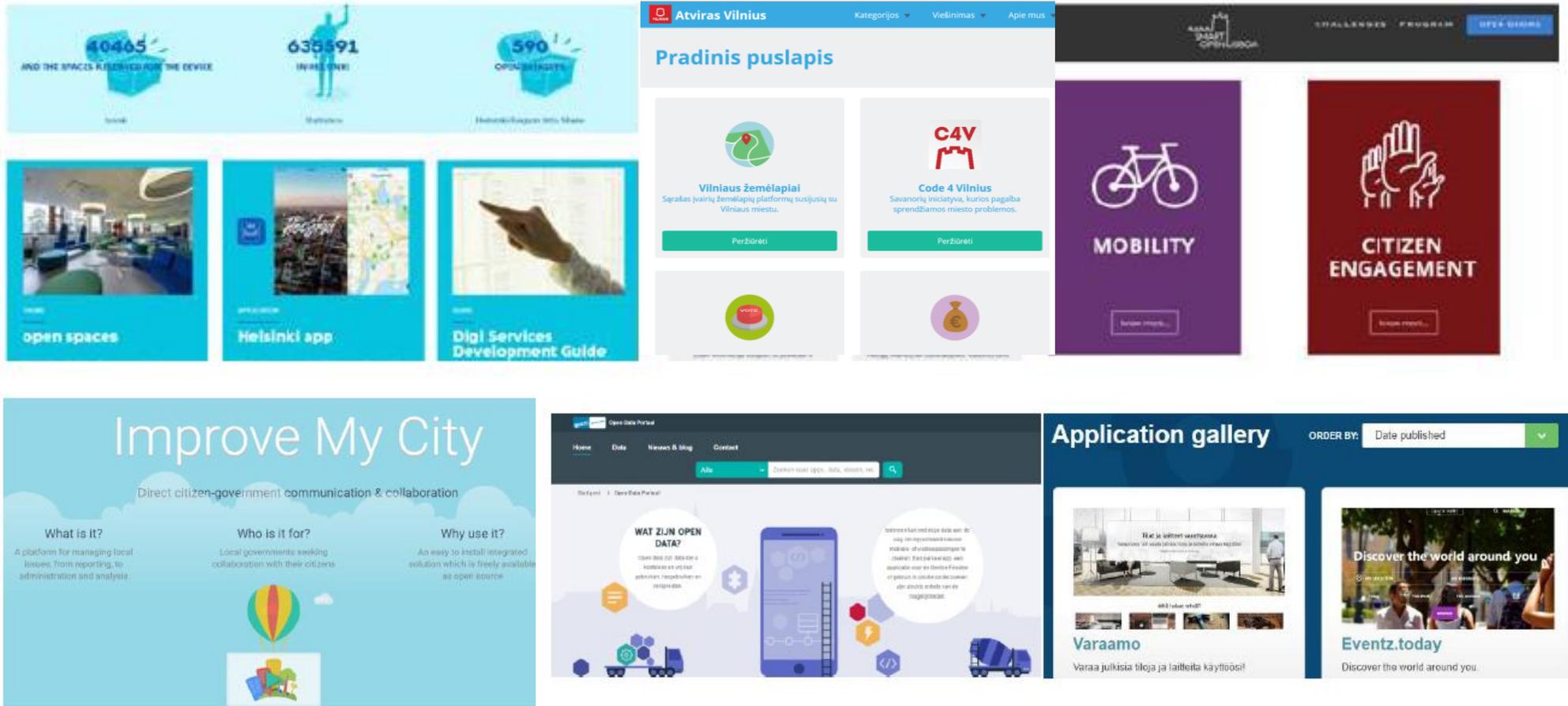
How's Dublin Doing?



Dublin RealTime

# Open Data for Open Cities (III)

## Open Data Portals: Best practices from Helsinki, Vilnius, Thessaloniki and Ghent



*Open Data publication websites evolve towards interactive dashboards*

# Open Data for Open Cities (IV)

## Open Data Interaction: The Social Platform for Open Data (SPOD)



Open wall

Blogs

CoCreation

?

EN

SPOD  
v.3.1/Zavijah

## Welcome in SPOD!

The Social Platform for Open Data (SPOD) enables social interactions among citizens around open datasets coming from different sources (dataset providers).

Beside a traditional social network, the discussions are organized in "Public Rooms", grouped in the *Agora*.

Each user has also a personal space, called "My space", where it is possible to place visualization of open datasets, URLs and notes so that they can be re-used later in discussions.

You can practice writing your status in "What's new" where all the activities of all the users are shown.

Enjoy it!

[SPOD guide in 4 minutes](#)

## Login

Email:

Password:

SIGN IN →

 Connect

[I forgot my password](#) • [New user? Register here](#)

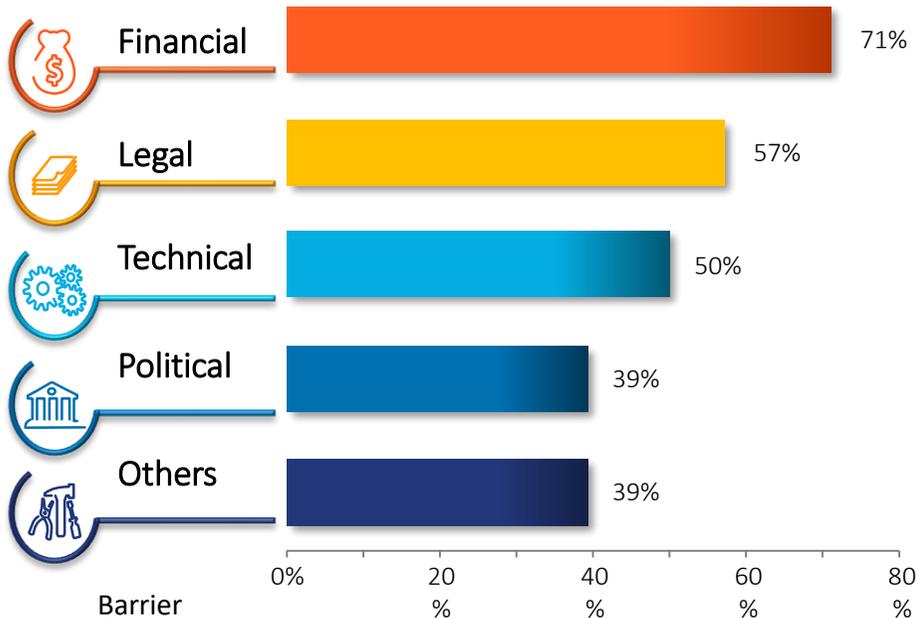
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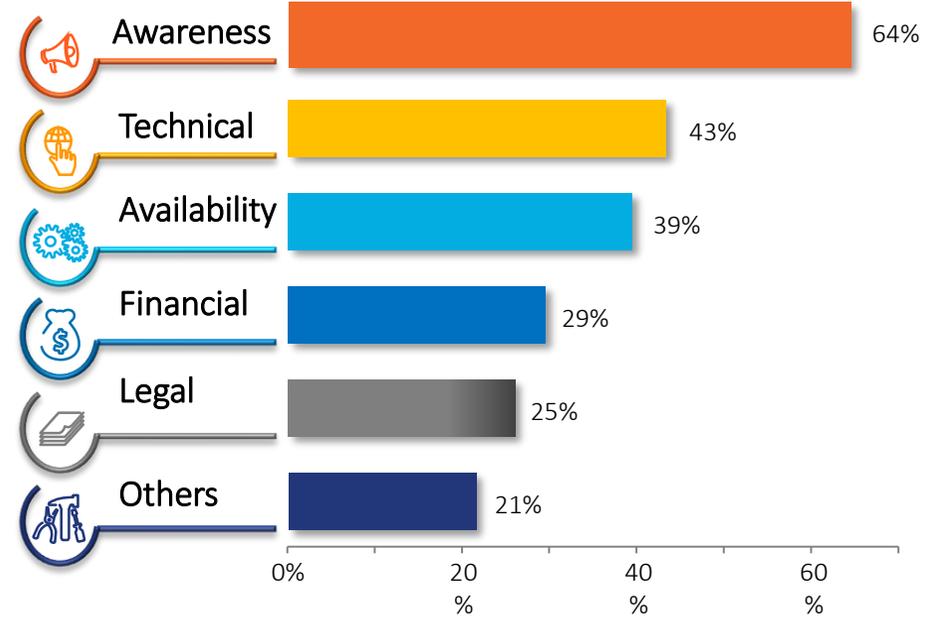
# Challenges still exist to unlocking the potential of Open Data

... on both the publishing and re-use side

## Barriers to Open Data publication, EU28 2017



## Barriers to Open Data re-use, EU28 2017



Times mentioned (in %)



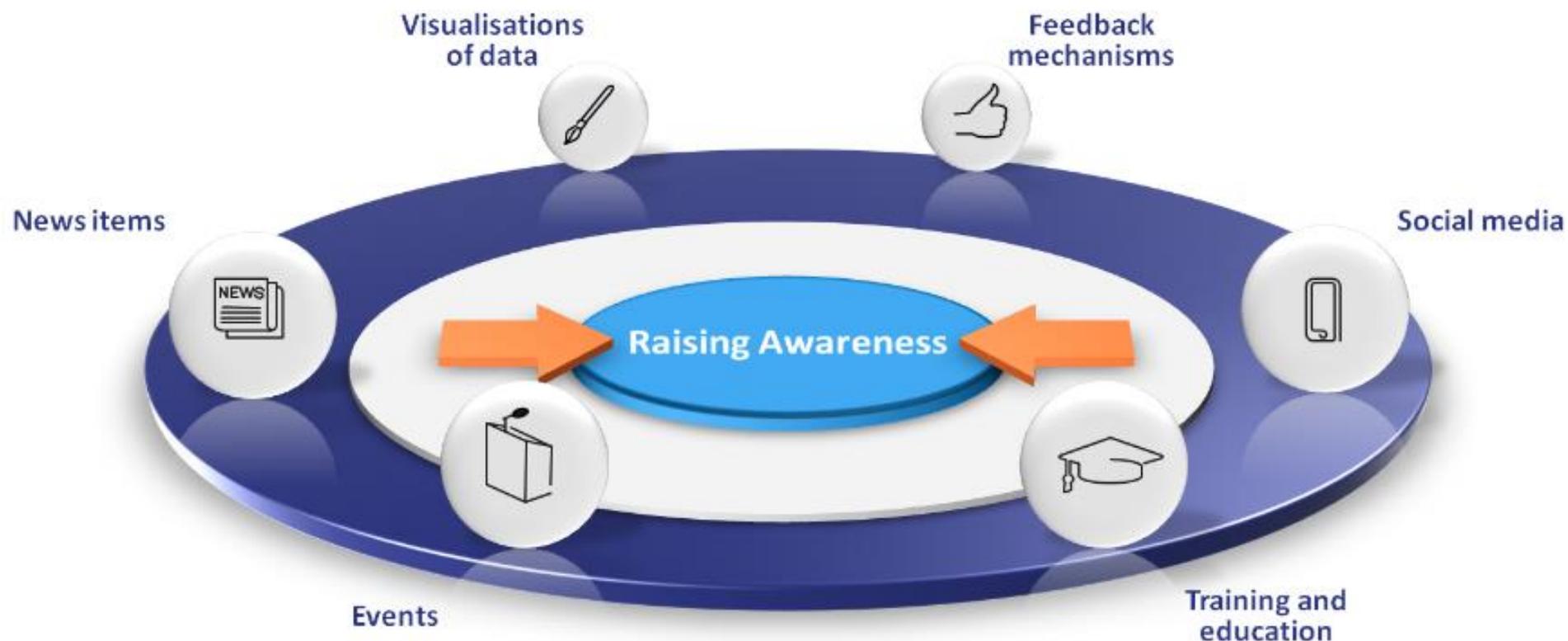
Understanding the 'other side' still poses a challenge

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# Increasing interaction between publishers and re-users – both online and offline

*Lessons learned from European best practices*



*Raising awareness remains key to reaping the benefits of Open Data*

# Portals as main platform for interaction between publishers and re-users



## *Ensuring sustainability – some recommendations for portal owners*



- ✓ Understand your audience better by employing analytics tools and deriving insights
- ✓ Enable feedback mechanisms and online interaction between re-users and publishers

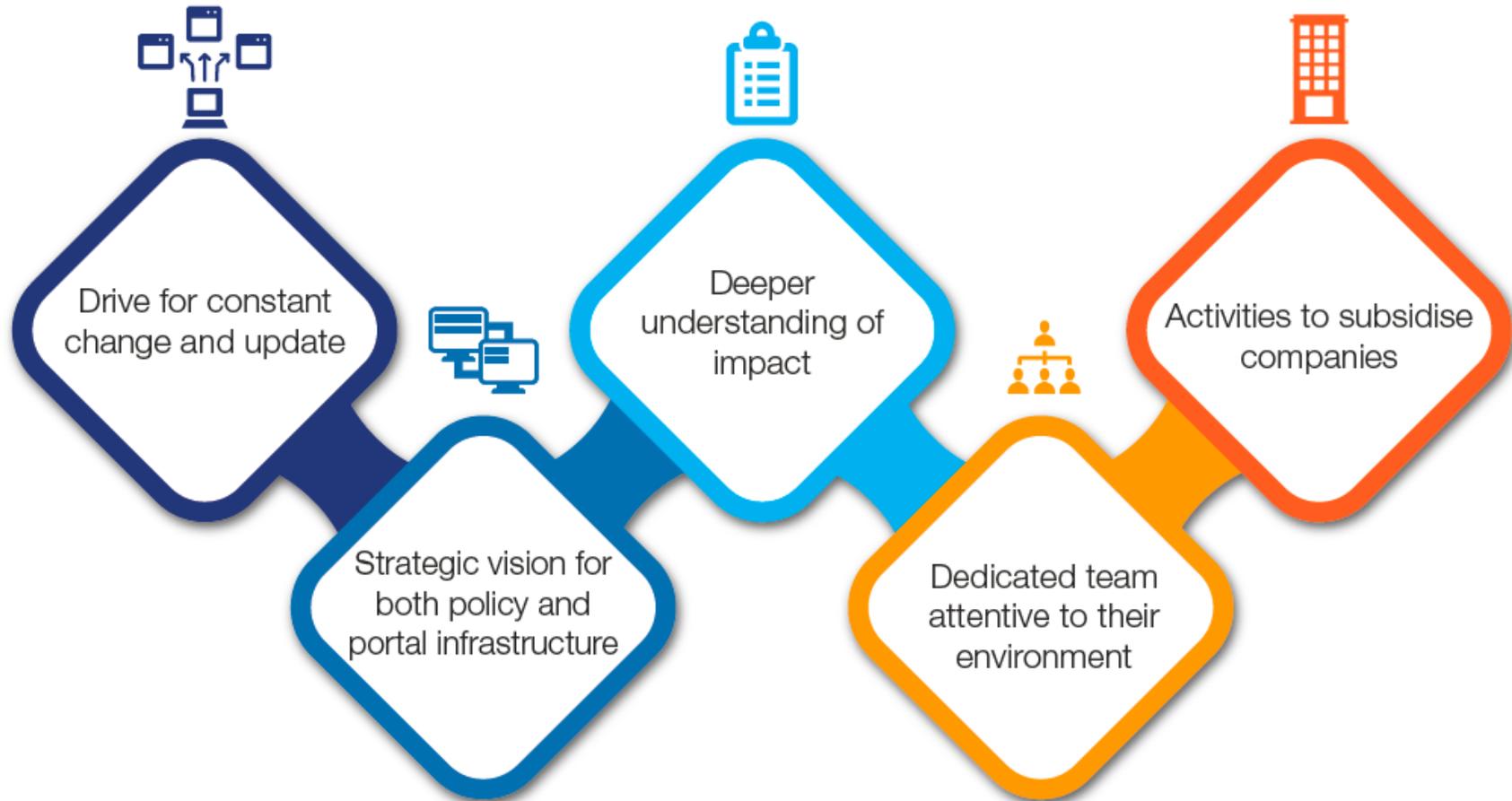


- ✓ Explore alternative financing models for your portal
- ✓ Advocate for Open Data by demonstrating impact and secure long-term support



- ✓ Leverage the use of privately held data and engage with private sector data holders
- ✓ Become an access point to real-time data

# Key success factors to achieving Open Cities



Open Data thrives on an enabling environment at city level

# Steps to foster entrepreneurship in Open Cities

1. **Prioritise** the topic and place it on the political agenda
2. **Define** an adequate framework and set up an enabling environment
3. **Govern**: set up a structure to ensure responsibility, ownership and sponsorship
4. **Ideate**: create the space for idea generation and 'trial & error' (both bottom-up and top-down)
5. **Enable** partnerships with other cities and local/regional stakeholders (e.g. private sector)
6. **Pilot** in an ecosystem of promoters and partnerships





## Search Datasets

Enter keywords...

Search

SPARQL Search



# Go and try it out!

<https://www.europeandataportal.eu/en>

# How do *you* re-use Open Data?



*Tell us your story!* <https://www.europeandataportal.eu/en/using-data/tell-us-your-story>

The screenshot shows the top navigation bar of the European Data Portal. It includes the logo, the text "EUROPEAN DATA PORTAL", and a search bar. Below the navigation bar is a breadcrumb trail: "European Data Portal > Using Data > Tell us your story". The main navigation menu is highlighted, with "Using Data" selected. Under "Using Data", the "Tell us your story" link is highlighted. The main content area has a heading "Tell us your story" and a sub-heading "Share your story about how you make use of Open Data." followed by a list of user types: "Are you an entrepreneur? A non-governmental organisation? A civil servant responsible for publishing data? A local authority?". A "Tell us your story!" button is present. Below this, there is a paragraph explaining the purpose of the collection of use cases and a link to an overview of collected use cases. An important note at the bottom states: "Important note: This information could be made public and it is therefore important to indicate whether your story should be anonymised or not."

European Data Portal > Using Data > Tell us your story

What we do ▾ Data ▾ Providing Data ▾ Using Data ▾ Resources ▾

Benefits of Using Data Checklist for Using Data Use Cases **Tell us your story**

## Tell us your story

**Share your story about how you make use of Open Data.**

Are you an entrepreneur? A non-governmental organisation? A civil servant responsible for publishing data? A local authority?

**Tell us your story!**

The purpose of the collection of use cases is to assemble interesting European stories about the benefits and efficiency gains that result from the use of Open Data.

For an overview of the use cases already collected, please follow this [link](#)

Important note: This information could be made public and it is therefore important to indicate whether your story should be anonymised or not.

# The EDP Metadata Quality Assistant



<https://www.europeandataportal.eu/mqa-service/en>

European Data Portal > Home

Home | What we do | Data | Providing Data | Using Data | Resources

Global Dashboard | Catalogues | Download as report

## Metadata Quality Dashboard

The current quality analysis is based on 3 criteria: the accessibility of distributions, their machine readability and their compliance to the [DCAT-AP](#) specification. For each catalogue all datasets and their corresponding distributions are checked. This page provides a general overview for all catalogues. For a more detailed view by catalogue, please select the detailed view from the menu. Additional explanations can be found by clicking on the "i" icon on the upper right corner of the diagrammes. The metadata quality is checked on a weekly basis. The next check is scheduled for Jun 13, 2018 5:46:00 PM.

### Distribution Statistics

The following diagrammes providing an overview of the accessibility of the distributions of all datasets. All distributions of each dataset are checked. According to the DCAT-AP specification, each dataset must have an AccessURL; a DownloadURL is recommended. For each URL of a distribution a HTTP GET request is executed and the corresponding answer is checked. The testing of the machine readability of a URL uses the list of [machine readable formats](#), published by the [Open Data Monitor](#).

#### Accessible Distributions

Category	Count
No	~100
Yes	~400

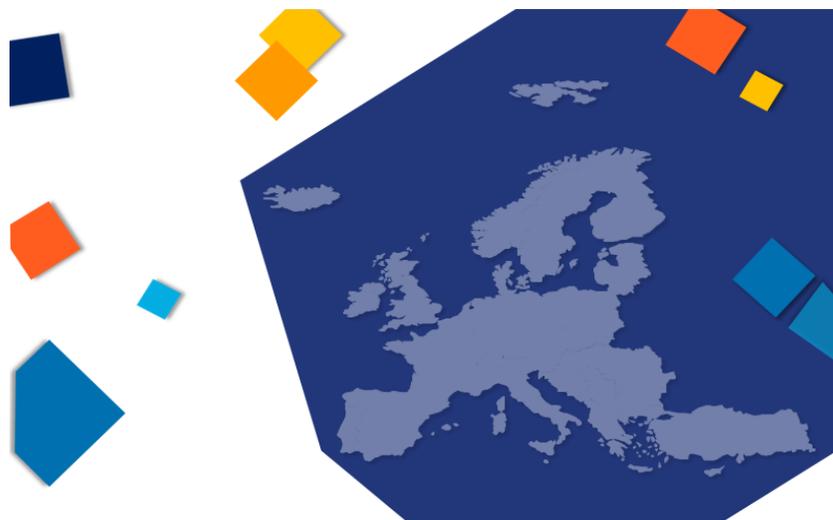
#### Error Status Codes

Status Code	Count
404	~400
559	~50
523	~20
503	~10
502	~10
400	~10
401	~10
429	~10
500	~10
403	~10

#### DownloadUrl exists

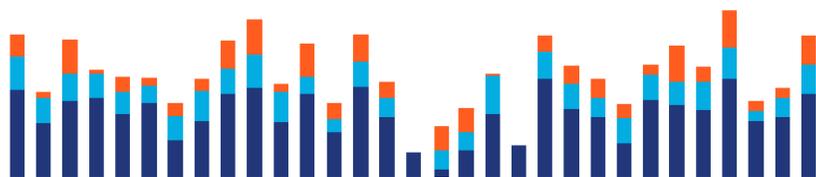
Category	Count
Yes	~100
N	~400

Every year, the European Data Portal team measures the state play of Open Data developments within Europe



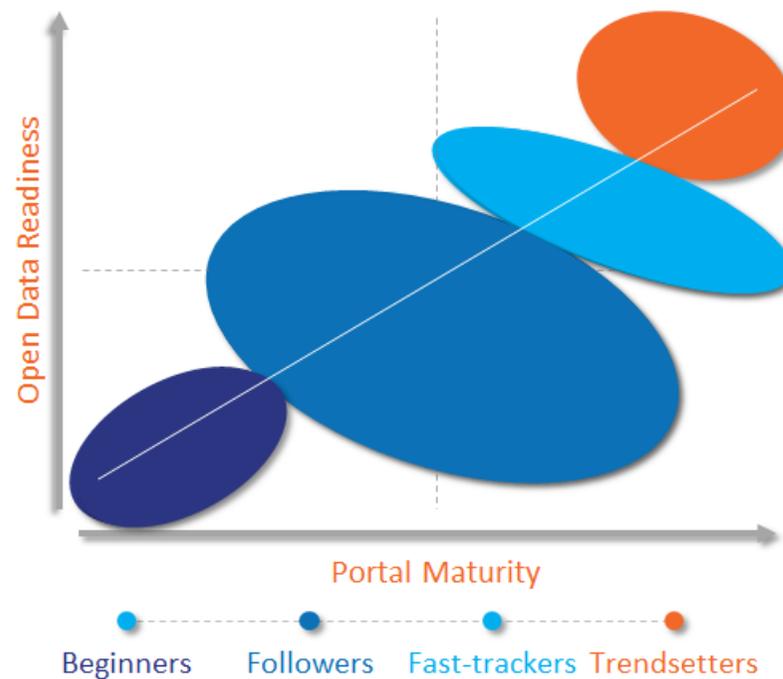
## Open Data Maturity in Europe 2017

Open Data for a European Data Economy



### Open Data Maturity in Europe 2017

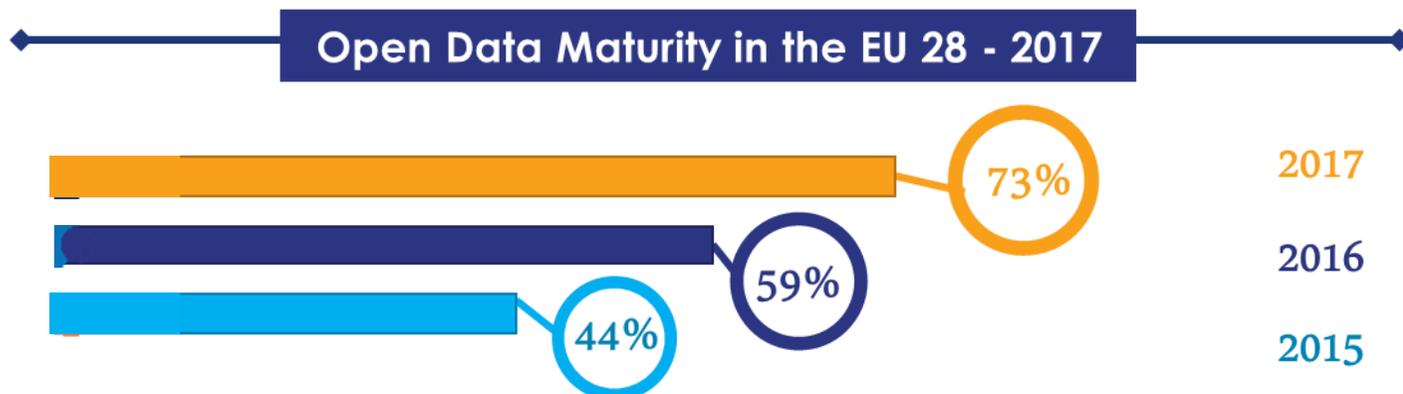
1. Report
2. Dashboard
3. 32 country factsheets
4. 4 levels of maturity



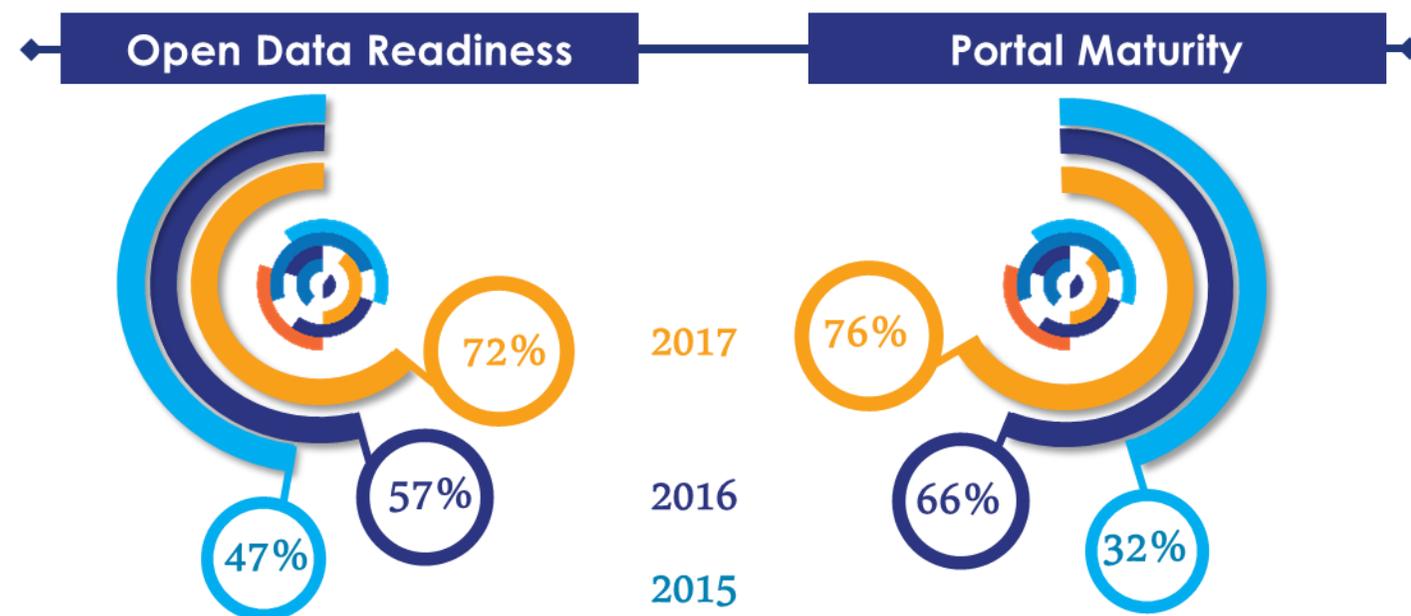
In 2017, the report reveals that EU countries are racing to the top with Open Data to drive digital innovation

## Key Trends

**Open Data Maturity:**  
+ 14pp from 59% in 2016 to 73% in 2017  
(44% in 2015)



**Open Data Readiness:**  
+ 15pp from 57% in 2016 to 72% in 2017  
(47% in 2015)



**Portal Maturity:** +10pp  
+ 10pp from 66% in 2016 to 76% in 2017  
(32% in 2015)

# The landscaping updates touch upon all 4 dimensions Open Data Policy, Impact, Portal and Data Quality...



*...and ensure a more precise analysis of Open Data maturity at both country and European level.*

Dimension	Key indicators	Update	Weight
<b>Open Data Policy</b>			28%
	Policy framework	Minor updates of the questions	
	Coordination at national level	Minor updates of the questions	
	Licensing norms	Minor updates of the questions	
<b>Open Data Impact</b>			27%
	Metrics	New section	
	Political	Minor updates of the questions	
	Social	Minor updates of the questions	
	Environmental	Minor updates of the questions	
	Economic	Minor updates of the questions	
<b>Open Data Portal</b>			27%
	Portal functions	Re-shuffling of 2017 questions	
	Portal use	Re-shuffling of 2017 questions	
	Data provision	Re-shuffling of 2017 questions	
	Portal sustainability	New section	
<b>Data Quality</b>			18%
	Automation	Re-shuffling of 2017 questions	
	Data Actuality	Re-shuffling of 2017 questions	
	DCAT-AP compliance	New questions based on 2017 pilot	
	Linked Open Data	New pilot indicator (no weight in final score)	