



PRIVATE
KEEP OUT



PARISDATA

DATA.GOV
EMPOWERING PEOPLE

open
data.lv

PORTUGAL

GOVERNO

dados.gov
AGÊNCIA PARA A MODERNIZAÇÃO ADM

BERLIN
OPEN

DATI.Piemonte.it

data.gouv.fr
INNOVATION TRANSPARENCE . OUVERTURE

datos.gob.es
ción pública



European Union Open Data Portal

OpenUmea

Open data from the municipality of Umea



DATA.GOV.UK
Opening up Government



THE WORLD BANK
Working for a World Free of Poverty

ABOUT DATA RESEARCH

Data

Countries Topics Indicators

Outline

1. Open data: what is it all about?
2. Examples of data reuse
3. The EU and open data
4. The 'EU Open Data Portal'
5. Final words and: What you can do.



Open data: What is it all about?





What is ‘Open Data’?

‘A piece of data or content is open if **anyone is free to use, reuse, and redistribute** it – subject only, at most, to the requirement to attribute and/or share-alike.’

(source: <http://opendefinition.org>)



What kinds of data can be open?

- 
- ✓ Statistics (and time series)
 - ✓ Geographic, geospatial, meteorological data
 - ✓ Reference data (thesauri, vocabularies, ontologies, etc.)
 - ✓ Research data
 - ✓ Data just about anything!
 - ✓ Resource management data
 - ✓ Metadata records

A huge potential to unleash – 1

Public sector information

- many areas of social and economic interest
- a public good
- high unrealised potential



A huge potential to unleash — 2

Recent technology

New possibilities for:

- data publishing
- data linking, mashing ...



Expected benefits

- Foster **economic activity & job growth**: through applications, new products and services
- Enhance **openness and transparency** of public bodies
- Create **new knowledge** by linking data from different sources
- Enhance **informed decision making and civic participation**





**Who will
benefit?**



Who will benefit?

Society as a whole, but first and foremost, the main users will be:

- **Open-data specialists and data journalists** who follow up open-data issues
- **Application developers and enterprises** to create new applications, new products and services from certain data



Who will benefit?

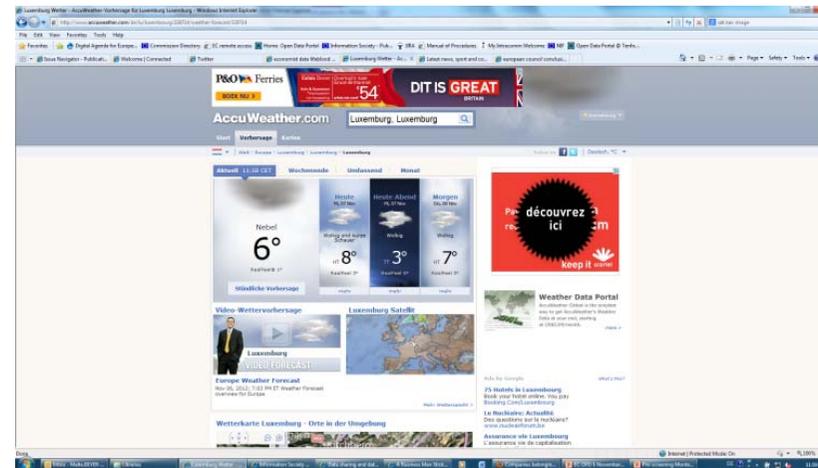
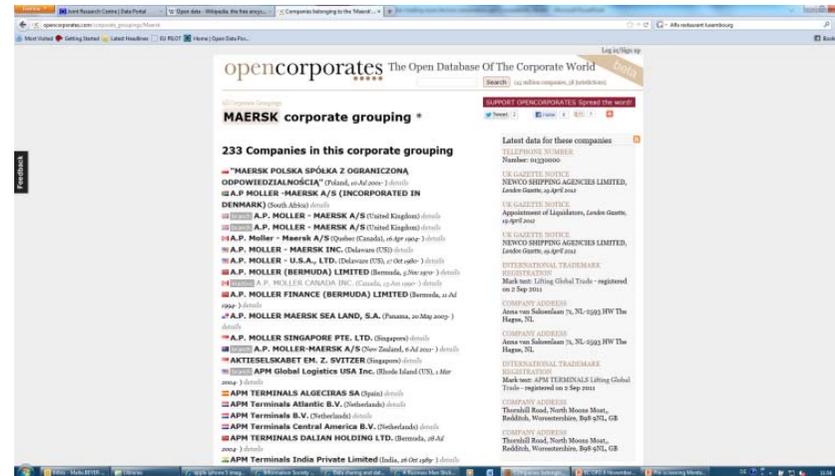
But others will either use it or benefit as users of the applications, products and services developed

- **Academia, researchers** for their research
- **Journalists and data journalists** for fact-finding
- **Public administrations, lobbyists** for informed decision- and policy-making
- **Citizens** who are better informed and aided in their daily life





Reuse of open data — Some examples





Reuse of open data — Some examples: 1

FixMystreet (UK) Crowd-source problem reporting

<http://www.fixmystreet.com/>

The screenshot shows the FixMyStreet website interface. At the top, there is a navigation bar with links for "Report a problem", "Your reports", "All reports", "Local alerts", "Help", "mysociety", "DONATE", and "OUR SITES". The main heading is "Report, view, or discuss local problems" with a sub-heading "(like graffiti, fly tipping, broken paving slabs, or street lighting)". Below this is a form to "Enter a nearby UK postcode, or street name and area:" with a "GO" button. To the left, a "How to report a problem" section lists four steps: 1. Enter a nearby UK postcode, or street name and area; 2. Locate the problem on a map of the area; 3. Enter details of the problem; 4. We send it to the council on your behalf. To the right, a "Recently reported problems" section lists several issues with timestamps and small images: "Fort Paul road sign" (12:49 today), "Illegal cars parked on road" (12:49 today), "Broken bus stop sign" (12:46 today), "Overgrown hedge" (12:28 today), and "Loading restrictions ignored" (12:26 today). At the bottom, statistics are displayed: "1,722 reports in past week", "3,039 fixed in past month", and "349,379 updates on reports".



Report, view, or discuss local problems

(like graffiti, fly tipping, broken paving slabs, or street lighting)

Enter a nearby UK postcode, or street name and area:

How to report a problem

- 1 Enter a nearby UK postcode, or street name and area
- 2 Locate the problem on a map of the area
- 3 Enter details of the problem
- 4 We send it to the council on your behalf

1,722

reports in past week

3,039

fixed in past month

349,379

updates on reports

Recently reported problems

Fort Paull road sign

12:49 today



Illegal cars parked on road

12:49 today



Broken bus stop sign

12:46 today



Overgrown hedge

12:28 today



Loading restrictions ignored

12:26 today





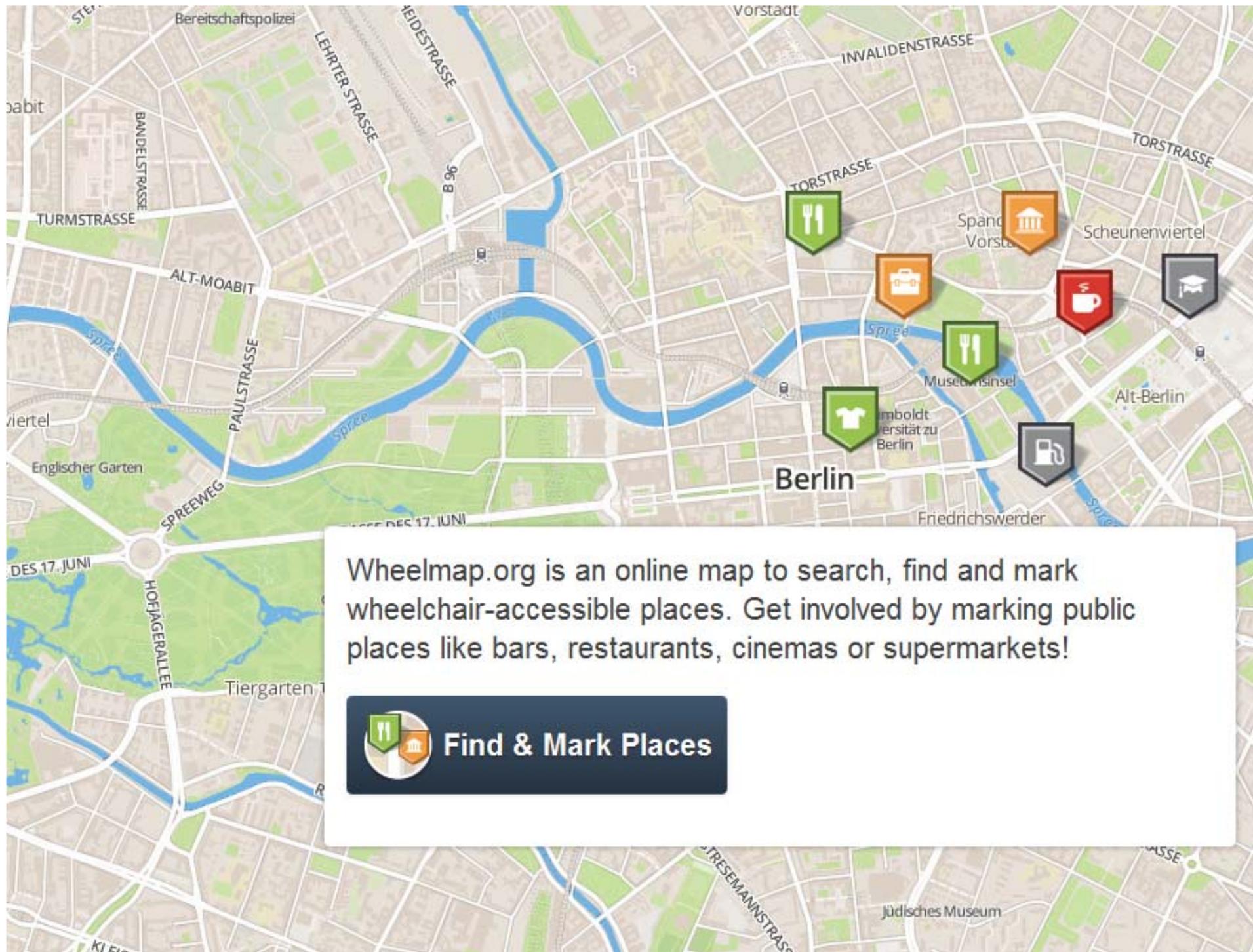
Reuse of open data — Some examples: 2



Wheelmap.org (DE)

<http://wheelmap.org/en/>





Wheelmap.org is an online map to search, find and mark wheelchair-accessible places. Get involved by marking public places like bars, restaurants, cinemas or supermarkets!



Find & Mark Places



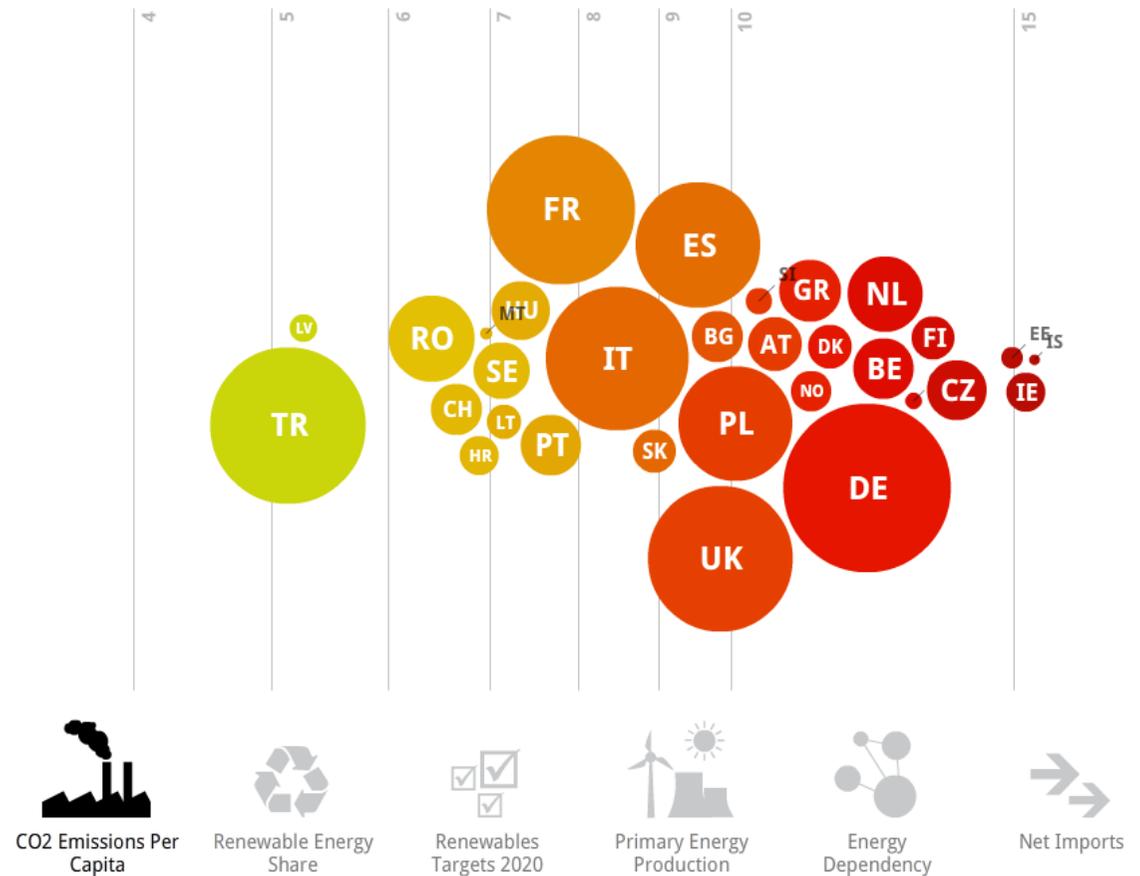
Reuse open data — Some examples: 3

Europe's energy

<http://energy.publicdata.eu/ee/vis.html>

Greenhouse Gas Emissions per Capita

In tonnes of CO2 equivalent per person





The EU and Open Data: legal framework

- **Re-use of public sector information (PSI)**

Directive 2013/37/EU amending Directive 2003/98/EC on the re-use of public sector information (PSI)

Aim → facilitate reuse of public sector information throughout the EU Member States

- **Re-use of Commission documents**

Commission Decision 2011/833/EU on the reuse of Commission documents

Aim → make data open by default and make it available under an Open Data Portal. The decision invites other EU institutions and bodies to follow suit.





Other actions

- Studies, research and work with data experts
- Creation of:

publicdata.eu





■ G8 Open Data Charter (signed summer 2013)

“We, the G8, agree that open data are an untapped resource with huge potential to encourage the building of stronger, more interconnected societies that better meet the needs of our citizens and allow innovation and prosperity to flourish.”

signed 18 June 2013

Technical

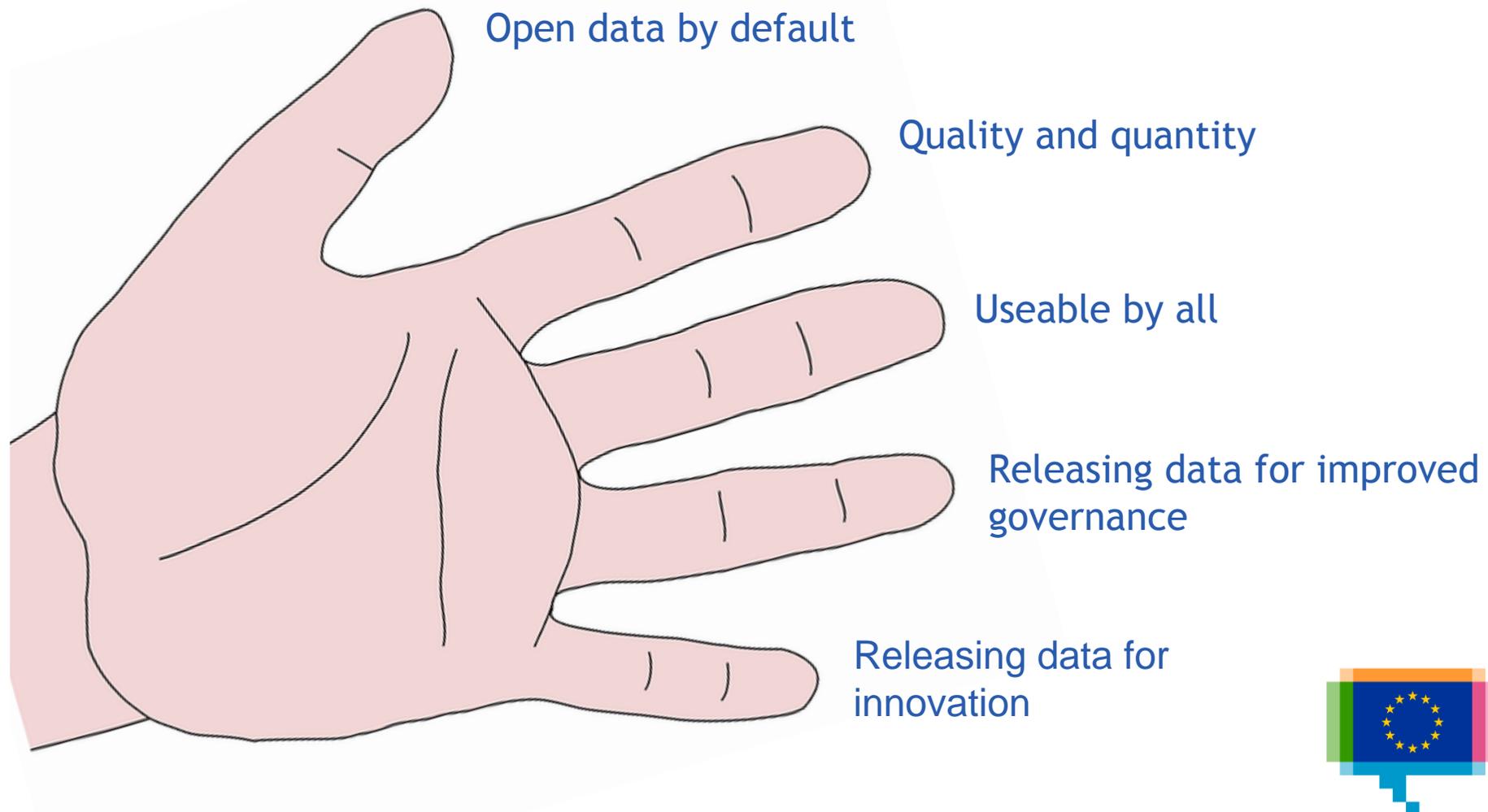
Contents

1. Principle 1: Open Data by Default
2. Principle 2: Quality and Quantity
3. Principle 3: Usable by All
4. Principle 4: Releasing Data for Improved Governance
5. Principle 5: Releasing Data for Innovation
6. Technical annex



G8 Open Data Charter

The charter outlines 5 principles committed to by the G8 governments:



■ G8 Open Data Charter – in brief

- ✓ **5 principles** including: all gov data published to be published as Open Data by default; quality and quantity; usable by all;
- ✓ **14 high-value areas of data** including: energy and the environment, health, science and research.
- ✓ As part of the Collective Action Plan, G8 members pledged to produce **action plans** by the end of this year to implement the charter and encourage others to follow.
- ✓ The charter has significantly raised the **political profile** and **urgency** of Open Data. **First time** open data principles have been agreed to in an international forum!
- ✓ Compliance with the G8 Open Data Charter **adheres with EU policy.**



The EU and the G8 Open Data Charter

The EU has made 6 commitments to:

1. Identify and make available **core datasets** held at EU level
2. Identify and make available **high-value datasets** held at EU level
3. Publish data on the **EU Open Data Portal**
4. Promote the application of the principles of the Charter in Member States through the revised PSI Directive and guidelines
5. Do supporting activities, outreach, consultation and engagement
6. Share experiences of work in open data



- The single point of access to a growing range of data held by the EU institutions and bodies



➤ Anyone can easily search, access, download and reuse EU open data via a catalogue of metadata

33





- Data is free to use and reuse for commercial or non-commercial purposes



➤ Possible to link data

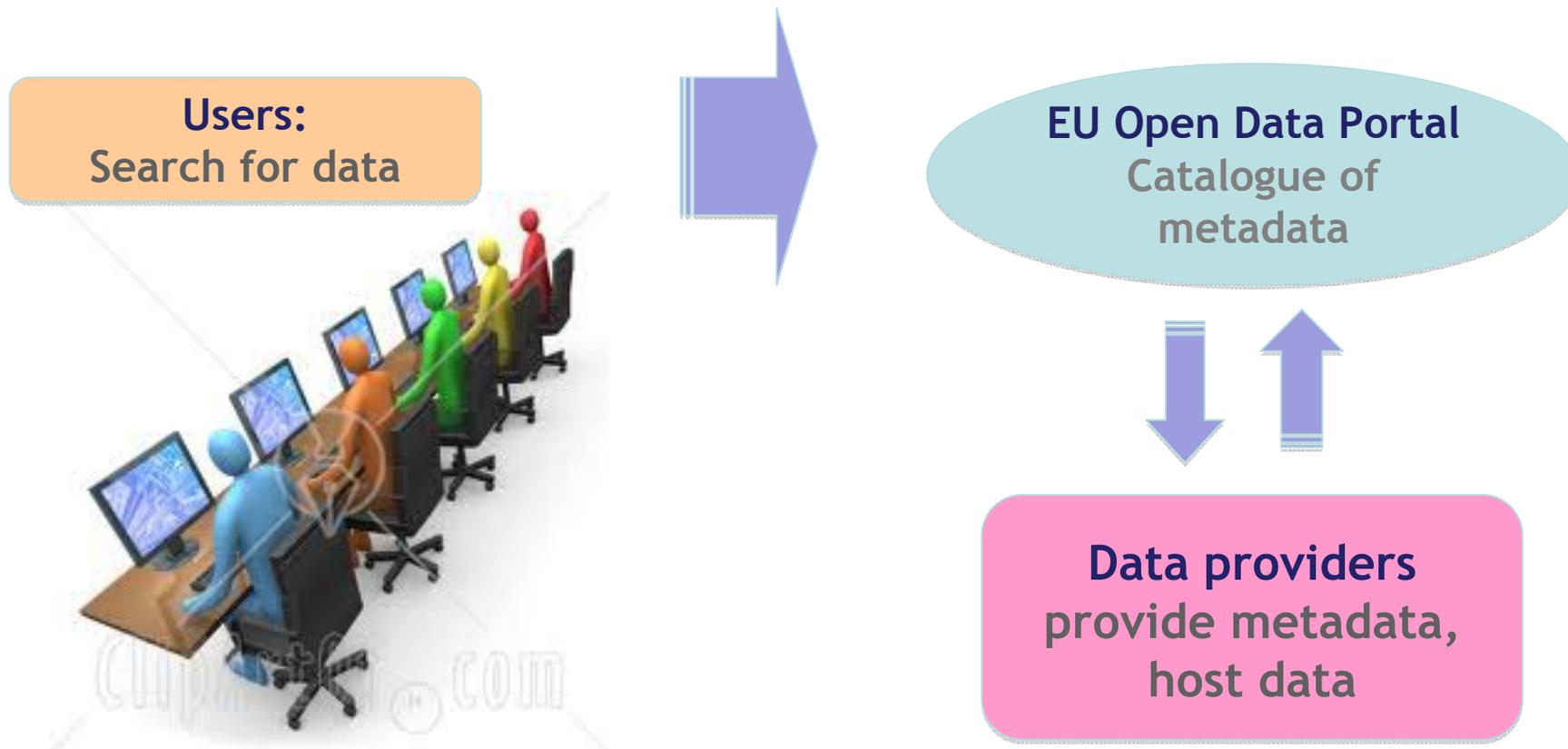


- Launched in **December 2012** in beta mode. Announced in Dublin at the European Data Forum in April 2013.
- Beta version will be removed at the start of 2014.
- The Publications Office is responsible for the operational management of the Portal while DG CONNECT of the European Commission implements open-data and reuse policy.





How does it work?





A catalogue linking to data





Why create an EU Open Data Portal?

CHALLENGES ☹️

Dispersion of data across EU organisations' sites

Various ways to describe data

Technical (formats, aggregation)

Legal (various terms of use)

Linguistic (languages limited)



Why create an EU Open Data Portal?

CHALLENGES ☹️	THE PORTAL'S ADDED VALUE 😊
Dispersion of data across EU organisations' sites	A single point of access
Various ways to describe data	Common rules for describing data (based upon international standards)
Technical (formats, aggregation)	Promote the use of open formats. More disaggregated data.
Legal (various terms of use)	One legal notice and standard terms of use for commercial + non-commercial purposes for reuse
Linguistic (languages limited)	Interface is in 23 languages, soon Croatian; goal is to have metadata in all languages



The portal: main features – 1

- **Catalogue of metadata**, data remains at the data provider's website (**Data tab**)
- **Visualisation applications**, displaying examples of graphical representation of data (**Applications tab**)
- **Searching**: human and machine (search box, SPARQL queries and API)



The portal: main features – 2

- **Other features:** tag cloud, 'most viewed datasets', 'top publishers', 'recently updated datasets'
- **Community engagement:** for suggesting data, giving feedback and suggestions and sharing apps and applications built on the basis of EU data





A quick demo

Legal notice | Contact | Search English (en) ▼

 **European Union Open Data Portal** BETA
europa.eu

Europa > Open Data Portal > Data

Home **Data** Applications Linked Data About 🔒 Data provider's area

Find datasets... 

Show results with: all of these words | any of these words | the exact phrase

Data Portal contains [6323 datasets](#) that you can browse, learn about and download.

Suggest a dataset

Is there a dataset from the EU that you could not find in this portal?

[Please request the dataset >>](#)

Top Publishers [view all publishers »](#)

-  **Eurostat**
(6084 datasets)
-  **European Environment Agency**
(106 datasets)
-  **Joint Research Centre**
(33 datasets)
-  **Publications Office**

Most viewed datasets [view all datasets »](#)

-  **DGT-Translation Memory**
(1278 views)
-  **Mobile phone subscriptions**
(58 views)
-  **Number of mobile phone subscriptions (1 000)**
(46 views)
-  **Curative care beds in hospitals**
(20 views)

Searching

Europa > Open Data Portal > Data > Search

europa.eu

European Union Open Data Portal **BETA**

Home Data Applications Linked Data About

Food

Show results with: all of these words | any of these words | the exact phrase

Search - Data Portal

116 datasets found

- Food Additives**
European legislation on additives is moving towards a single procedure for the authorisation and evaluation of additives which takes account of the latest evaluation measures for...
- Food Enzymes**
The European Commission has proposed a general system for authorising and marketing enzymes in the European Union (EU). The new system provides for the introduction of a common procedure...
- HICP - food**
Harmonized Indices of Consumer Prices (HICPs) are designed for international comparisons of consumer price inflation. HICPs are used for the assessment of the inflation convergence...
- MFNET and Novel Food (Novel foods and food ingredients)**
The rules for authorising novel foods and food ingredients are harmonised at European level. Before they are placed on the market, tests carried out by the European Food Safety Authority...
- Food Contact Materials**
Plastic materials and articles coming into contact with foodstuffs may transfer toxic substances which present a risk to human health. All such substances are controlled at Community...
- HICP - food, alcohol and tobacco**
Harmonized Indices of Consumer Prices (HICPs) are designed for international comparisons of consumer price inflation. HICPs are used for the assessment of the inflation convergence...
- Retail trade turnover - non food**
The Retail Trade Index is a business cycle indicator which shows the monthly activity of the retail sector in value and volume. It is a short-term indicator for final domestic demand. It...

Legal notice | Contact | Search English (en) ▼

Data provider's area

Suggest a dataset
Is there a dataset from the EU that you could not find in this portal?
[Please request the dataset >>](#)

Keywords
foodstuff (7)
food safety (7)
consumer protection (7)
marketing (6)
health control (6)
foodstuffs legislation (6)
market approval (5)
labelling (5)
human nutrition (5)
consumer prices (5)

Resource formats
application/zip (91)
application/x-gzip (91)
rdf/xml (9)
application/rdf (1)

Publishers
Eurostat (106)
Directorate-General for Health and Consumers (10)

Refining results

Europa > Open Data Portal > Data > Search

European Union Open Data Portal **BETA**

Home Data Applications Linked Data About

Food

Show results with: all of these words | any of these words | the exact phrase

Search - Data Portal

Keywords: *consumer prices -*

5 datasets found

- HICP - food**
Harmonized Indices of Consumer Prices (HICPs) are designed for international comparisons of consumer price inflation. HICPs are used for the assessment of the inflation convergence...
- HICP - food, alcohol and tobacco**
Harmonized Indices of Consumer Prices (HICPs) are designed for international comparisons of consumer price inflation. HICPs are used for the assessment of the inflation convergence...
- HICP - all items excluding energy, food, alcohol and tobacco**
Harmonized Indices of Consumer Prices (HICPs) are designed for international comparisons of consumer price inflation. HICPs are used for the assessment of the inflation convergence...
- HICP - all items excluding energy and seasonal food**
Harmonized Indices of Consumer Prices (HICPs) are designed for international comparisons of consumer price inflation. HICPs are used for the assessment of the inflation convergence...
- HICP - all items excluding energy and unprocessed food**
Harmonized Indices of Consumer Prices (HICPs) are designed for international comparisons of consumer price inflation. HICPs are used for the assessment of the inflation convergence...

Legal notice | Contact | Search | English (en) ▼

Data provider's area

Suggest a dataset

Is there a dataset from the EU that you could not find in this portal?
[Please request the dataset >>](#)

Keywords

- HICP (5)
- tobacco (1)
- food price (1)
- food (1)
- alcohol (1)

Resource formats

- application/zip (5)
- application/x-gzip (5)

Publishers

- Eurostat (5)

Last updated: 27/11/2013 | About this site | Legal notice | Contact | Top

Looking at the metadata of a result

The screenshot displays the metadata page for the 'HICP - food' dataset on the European Union Open Data Portal. The page includes a breadcrumb trail, navigation tabs, a title, publisher information, a detailed description, download links for various formats, and additional information such as the URI, status, and identifier.

European Union Open Data Portal **BETA**
europa.eu

Europa > Open Data Portal > Data > Publisher > Eurostat > HICP - food

Home Data Applications Linked Data About

HICP - food

Publisher Eurostat »

Description

Harmonized Indices of Consumer Prices (HICPs) are designed for international comparisons of consumer price inflation. HICPs are used for the assessment of the inflation convergence criterion as required under Article 121 of the Treaty of Amsterdam and by the ECB for assessing price stability for monetary policy purposes. The ECB defines price stability on the basis of the annual rate of change of the euro area HICP. HICPs are compiled on the basis of harmonized standards, binding for all Member States. Conceptually, the HICPs are Laspeyres-type price indices and are computed as annual chain-indices allowing for weights changing each year. The common classification for Harmonized Indices of Consumer Prices is the COICOP (Classification Of Individual Consumption by Purpose). A version of this classification (COICOP/HICP) has been specially adapted for the HICPs. Sub-indices published by Eurostat are based on this classification. HICPs are produced and published using a common index reference period (2005 = 100). Growth rates are calculated from published index levels. Indexes, as well as both growth rates with respect to the previous month (M/M-1) and with respect to the corresponding month of the previous year (M/M-12) are neither calendar nor seasonally adjusted.

Resources

- DOWNLOAD [Download dataset in DFT format »](#)
- DOWNLOAD [Download dataset in SDMX-ML format »](#)
- DOWNLOAD [Download dataset in TSV format »](#)
- DOWNLOAD [ESMS metadata \(Euro-SDMX Metadata structure\) HTML »](#)
- DOWNLOAD [ESMS metadata \(Euro-SDMX Metadata structure\) SDMX »](#)
- DOWNLOAD [More information on Eurostat Website »](#)

Additional Information

URI
<http://ec.europa.eu/eurostat/product?code=teicp010>

Status
Completed

Identifier
teicp010

Keywords
HICP
consumer prices
food price

Licence: Europa Legal Notice

Legal notice | Contact | Search **English (en)**

Data provider's area

Looking at the metadata of a result

Additional Information

URI

<http://ec.europa.eu/eurostat/product?code=teicp010>

Status

Completed

Identifier

teicp010

Type of Dataset

Statistical

Added to open-data.europa.eu

2012-12-12

Updated on open-data.europa.eu

2013-11-27

Temporal Coverage From

2013-10

Temporal Coverage To

2012-11

Contact Name

Eurostat, the statistical office of the European Union

Contact Address

Joseph Bech building, 5 Rue Alphonse Weicker, L-2721 Luxembourg

Contact Telephone

tel: +352 430136789





Viewing and downloading data

Resources

- [DOWNLOAD](#) *Download dataset in DFT format »*
- [DOWNLOAD](#) *Download dataset in SDMX-ML format »*
- [DOWNLOAD](#) *Download dataset in TSV format »*
- [DOWNLOAD](#) *ESMS metadata (Euro-SDMX Metadata structure) HTML »*
- [DOWNLOAD](#) *ESMS metadata (Euro-SDMX Metadata structure) SDMX »*
- [DOWNLOAD](#) *More information on Eurostat Website »*

Additional Information

URI

<http://ec.europa.eu/eurostat/product?code=teicp010>



Popular terms

Metadata catalogue

Reuse

EU Open Data Portal

Anyone

Children

Freely

our

Fre

Government

Edi

EU open data

cult
ation

Single point of access

e
re

Gender

Energy

Telecommunications



✓ **Spread** the word about
the EU Open Data Portal

✓ **Tell us** about
open data initiatives

✓ **Suggest data +**
get others to do it

✓ **Give us feedback at:**
op-odp-contact@publications.europa.eu

