



# **The Open Data policy in DG CONNECT**

## **Existing solutions for public data re-use**

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**Copernicus Climate Data Store Workshop**  
**3-6 March 2015**  
**European Centre for Medium-Range Weather Forecasts**



## Public Sector: Digital, Interoperable, Open

- Public administrations should be **digital by default**.
- Public services must be **cross-border by default**.
- Governments and administrations must be **open, transparent and collaborative**.

H2020 and CEF DSI to support this vision

## Open (public) data: Why does it matter for Europe?

- 1. Untapped business and economic opportunities:** data is the new gold; possible direct and indirect gains of €140bln across the EU27; Dutch geo-sector in 2008: 15.000 jobs
- 2. Better governance and citizen empowerment:** open data increases transparency, citizen participation and administrative efficiency and accountability
- 3. Addressing societal challenges:** data can enhance sustainability of health care systems; essential for tackling environmental challenges
- 4. Accelerating scientific progress:** e-science essential for meeting the challenges of the 21st century in scientific discovery and learning.

## Re-use of open government data

- Publicly funded data must be available for all
- What data are we talking about?  
Statistics, environmental and geographical data, meteorological data, business information, legal information
- Combination of different types of data (e.g. geospatial, traffic and tourism)
- EU-wide applications and services  
Capitalise on the size of the internal market
- Systems that facilitate decision making by companies

## Open data strategy

- Communication on Open Data ([COM\(2011\)882](#))
- A revision of the Decision governing the re-use of Commission's own information ([2011/833/EU](#))
- Revision of the Directive on the re-use of public sector information ([2013/37/EU](#))
- Open data-portals
  - [EU Open Data portal](#)
  - [pan-European portal](#)

# Blooming of Open Data Initiatives by public authorities worldwide

- Policy
- Legislation
- Infrastructures  
(e.g. Portals)
- Support for reuse
- Research



publicdata.eu  
Pan-European Data Portal



DATA.GOV



UNdata



data.worldbank.org



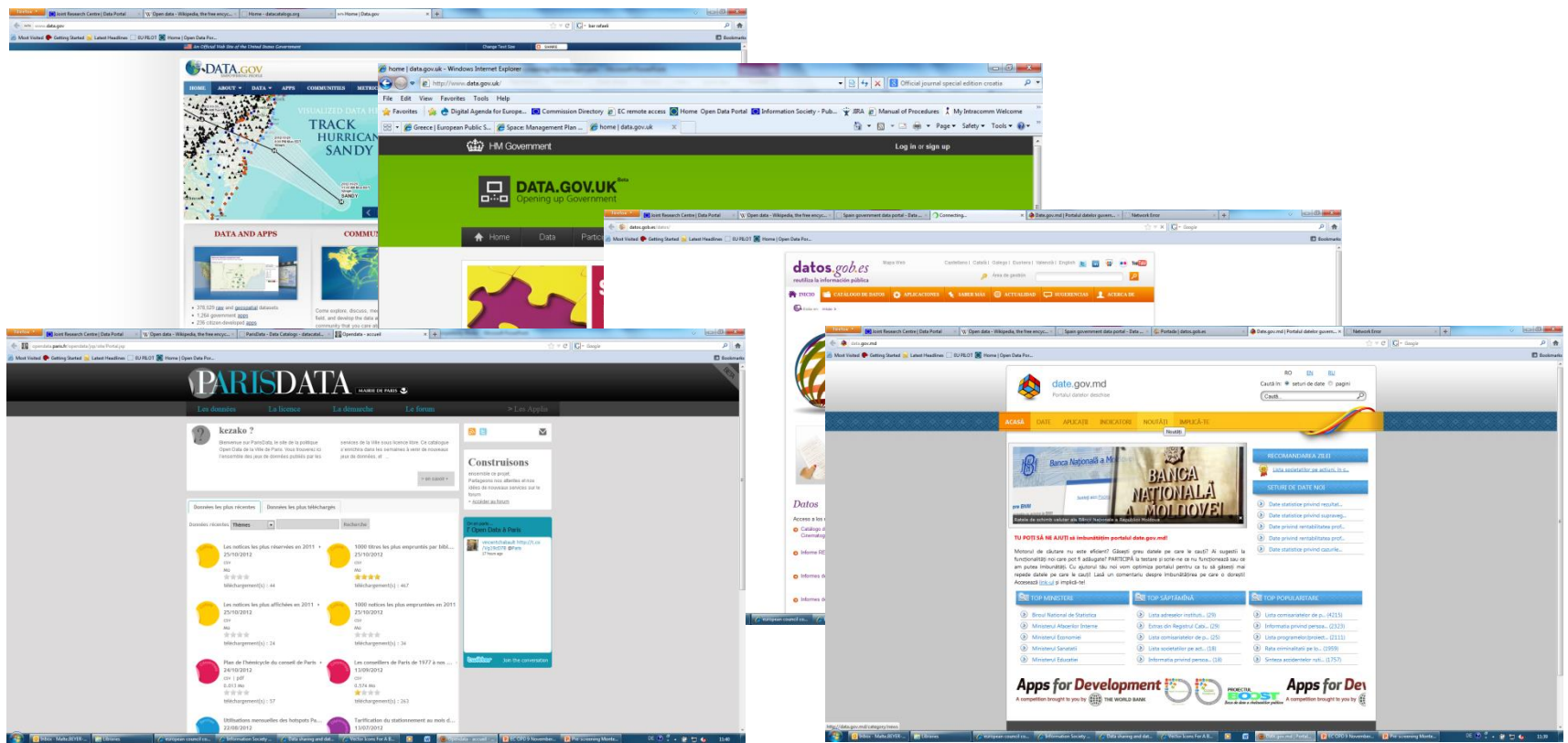
G8  
Lough Erne  
2013

G8  
Open Data  
Charter

Web technology as driver



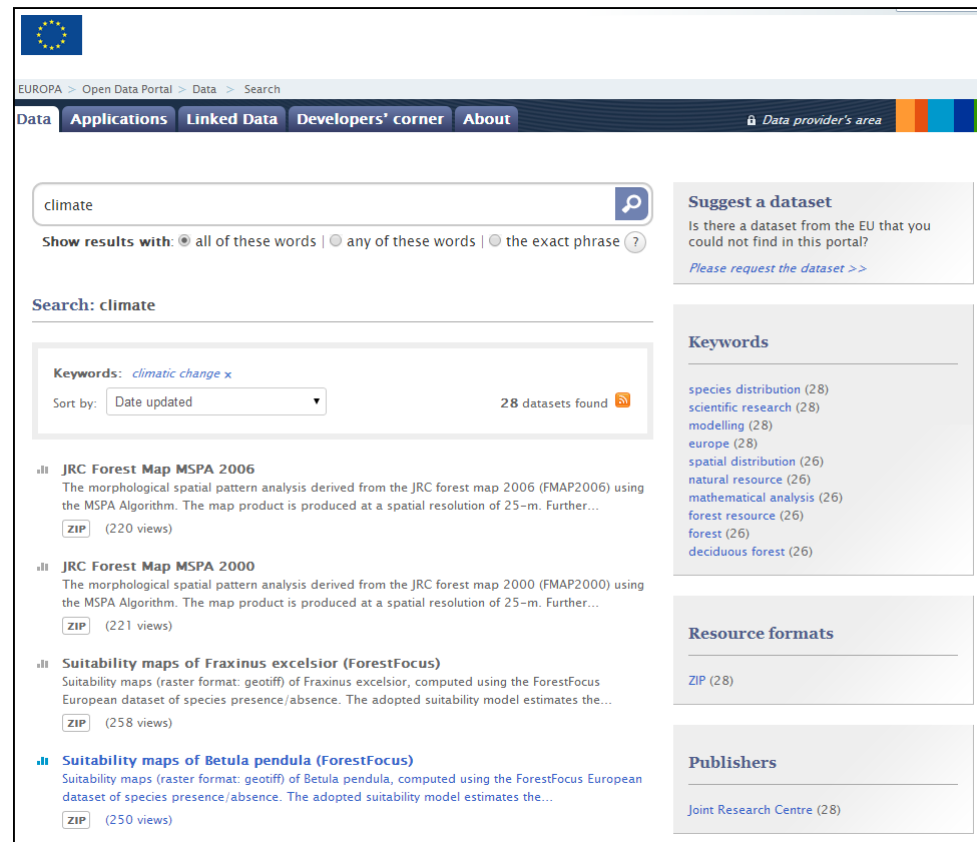
# Open data portals



# The EU open data portal

## Rationale:

- Single access point for information from all EU institutions and bodies
- Driver for re-use policy inside organisation: Data management, IP rights, openness



The screenshot shows the EU Open Data Portal search results for the query 'climate'. The page includes a navigation menu with 'Data', 'Applications', 'Linked Data', 'Developers' corner', and 'About'. A search bar at the top contains the text 'climate'. Below the search bar, there are options to 'Show results with' (all of these words, any of these words, the exact phrase) and a search button. The search results are displayed in a list format, showing the number of datasets found (28) and a 'ZIP' button for each result. The results include:

- JRC Forest Map MSPA 2006**: The morphological spatial pattern analysis derived from the JRC forest map 2006 (FMAP2006) using the MSPA Algorithm. The map product is produced at a spatial resolution of 25-m. Further... (220 views)
- JRC Forest Map MSPA 2000**: The morphological spatial pattern analysis derived from the JRC forest map 2000 (FMAP2000) using the MSPA Algorithm. The map product is produced at a spatial resolution of 25-m. Further... (221 views)
- Suitability maps of Fraxinus excelsior (ForestFocus)**: Suitability maps (raster format: geotiff) of Fraxinus excelsior, computed using the ForestFocus European dataset of species presence/absence. The adopted suitability model estimates the... (258 views)
- Suitability maps of Betula pendula (ForestFocus)**: Suitability maps (raster format: geotiff) of Betula pendula, computed using the ForestFocus European dataset of species presence/absence. The adopted suitability model estimates the... (250 views)

On the right side of the page, there are sections for 'Suggest a dataset', 'Keywords' (including species distribution, scientific research, modelling, europe, spatial distribution, natural resource, mathematical analysis, forest resource, forest, deciduous forest), 'Resource formats' (ZIP), and 'Publishers' (Joint Research Centre).



# The EU open data portal

- Site launched in beta on December 2012, now fully operational (<http://open-data.europa.eu>)
- Based on open source solutions (LAMP, CKAN, Drupal)
- Metadata schema: Dublin Core + DCAT + ADMS
- REST API and SPARQL endpoint available (<http://open-data.europa.eu/en/developerscorner>)
- License conditions: Open license as default (equivalent to [CC BY](#)), but exceptions allowed



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# European Union Open Data Portal

EUROPA > Open Data Portal > Applications

Data Applications **Linked Data** Developers' corner About

Data provider's area

## Visualisation applications

The datasets you can access via the EU Open Data Portal contain raw data. Since data in this format can be difficult to read, applications are used to visualise and to reuse them. Discover the potential of EU open data with the applications created by data providers: see the gallery below.

Share

### Share your app

Have you used our data to create an application?

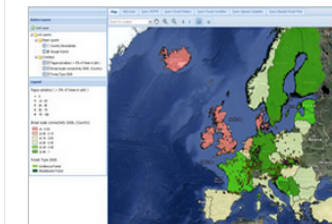
Please let us know

## The Digital Agenda Scoreboard



The Digital Agenda Scoreboard provides information on the progress of the Digital Agenda. It is published by the European Commission. Author: Directorate-General for Economic and Financial Affairs. Data Source: European Commission. Subject: Information and Communication Technology.

## The European Forest Data Centre (EFDAC) Map View



The EFDAC provides information on the distribution of forest in Europe. It is published by the European Commission. Author: Joint Research Centre. Data Source: European Commission. Subject: Geographical information.

- CORDIS – EU research projects under FP7 (2007–2013) (3425 views)
- Register of Commission documents (2319 views)
- She Figures 2013 Gender in Research and Innovation (1977 views)
- European Skills, Competences, Qualifications and Occupations (ESCO) (1846 views)
- GMES Urban Atlas (1760 views)
- Transparency Register (1568 views)
- Digital map of european ecological regions (1219 views)

## Keywords

- geospatial data (81)
- vector data (40)
- EEA owned data sets (35)
- raster data (34)
- Corine (27)
- land cover (22)
- point data (13)
- CLC2000 (13)
- water (8)
- urban (8)



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Industry



Finance



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## Popular terms

balance of payments  
 employment geospatial data research  
 ratings agriculture water region  
 section european union  
 enterprise statistics  
 tical analysis national trade vector data energy  
 gender equality balance of payments  
 annual report

# Towards a pan-European infrastructure for (open) data

## Rationale

- One single gateway to reusable information with the aim of enabling combination of information held by various open data portals at various levels throughout the EU
- Services around open data
- Dedicated service infrastructure for language resources in order facilitate multi-lingual access to online services



European

**Pan-European  
Open Data portal  
currently a pilot:  
[publicdata.eu](http://publicdata.eu)**

## Open Data Showcase

### Featured Applications

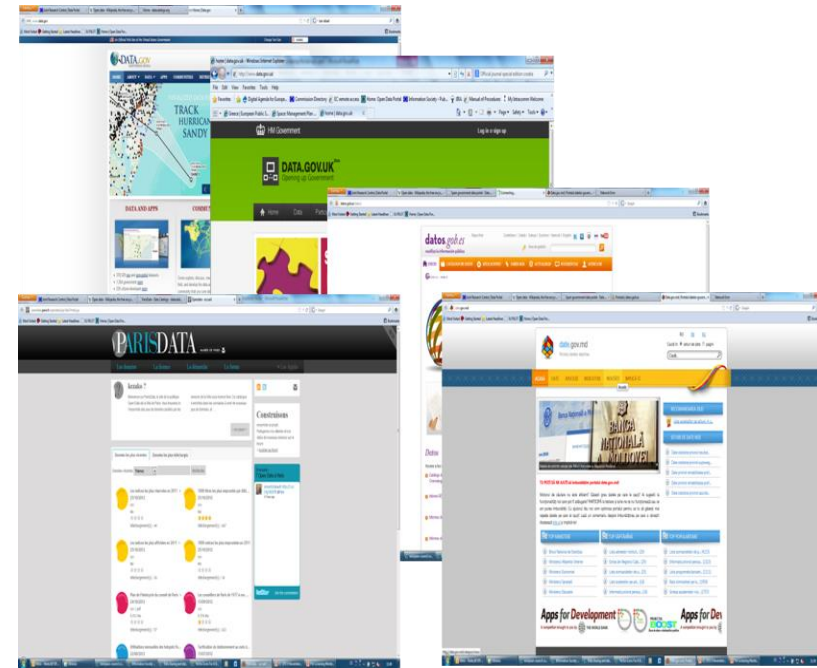
- ZNasichDani / From Our Taxes**  
ZNasichDani.sk uncovers who are influential... (show more)
- OpenCorporates**  
OpenCorporates has taken one of the most im... (show more)
- Live London Underground tube map**  
It plots the current positions of all Londo... (show more)
- Bike Share Map**  
Showing the current state of bike share sys... (show more)
- Evolution of European Union legislation**  
Explaining the legislative activity of the ...
- Europe's carbon dioxide emissions**  
Our emissions map (http://www.sandbag.org.u... (show more)

**More than 47,000  
referenced  
datasets**

**15 countries**

## CEF Public Open Data: 2014 actions and outcomes

- initiate the deployment of a comprehensive Open Data core platform based upon the experience gained through the existing pilot portal
  - Make data sets accessible and downloadable through links to data providers' resources; centralised storage may be offered
  - Feature advanced visualization capabilities, tools for data aggregation and linking, browsing and visualization, user interfaces and support material
  - Use agreed standards for metadata and data



## CEF Public Open Data: 2015 developments

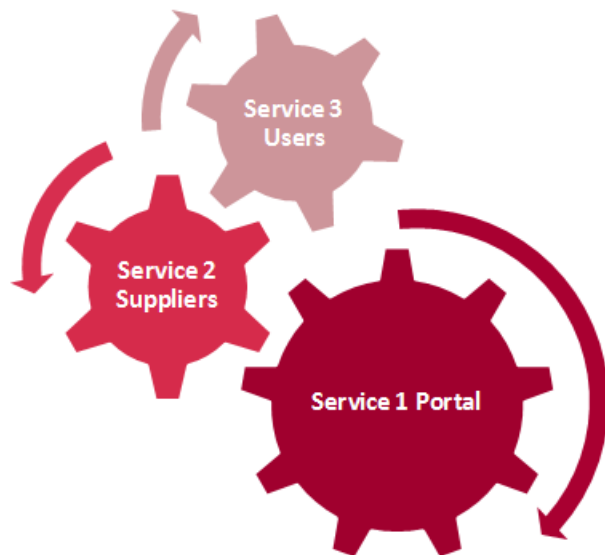
- Development started 19/12/2014, initial contract 38months, ~6,5 M€
- Consortium led by Capgemini, partners: Intrasoft, Sogeti, Open Data Institute, Fraunhofer FOKUS (Berlin), University of Southampton, con terra GmbH, Time.Lex
- First release of the portal: October 2015 (EDF conference)
- Will feature advanced visualization capabilities, tools for data aggregation and linking, browsing and visualization, user interfaces and support material
- Will use agreed standards for metadata and data

## The Deployment of an EU Open Data core platform: implementation of the pan-European Open Data portal and related services

Rectangular Snip

The strategic objective of this project is to address **Accessibility and Value of Open Data**

- **Accessibility.** How to access this information? Where to find it? How to make it available in the first place? In domains, across domains, across countries? In what language?
- **Value.** For what purpose and what economic gain? Societal gain? Democratic gain? What critical mass?



- The Project is structured into three work streams
- Service 1: Developing, launching, operating and maintaining a pan-European web-based data portal infrastructure
- Service 2: Fostering uptake on data supply
- Service 3: Fostering uptake on reuse of public data resources

- A substantial part of the Open Data Value Chain is the Portal
- The Portal alone is an empty house and requires metadata to be supplied by the holders of public data resources
- A community needs to be engaged to make use of the Portal and the data, as this will drive economic benefits and innovation

All three Services are related and very much dependent on one another to untap the value of open data



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# DIGITAL AGENDA FOR EUROPE

A Europe 2020 Initiative

European Commission > Digital Agenda for Europe > Content and media



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Science & Technology

Telecoms & the Internet

**Content & Media**

Digital Me

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Copyright

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What big data can do for you

Data Public-Private Partnership

Open Data

EU investments

Digital Culture

Collective Awareness

## Data

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Newsroom

Data is everywhere and has an impact on almost every part of human life. Whatever we do today, chances are high that we need to use data - regardless of whether we know about it or not. ([more about data](#))

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# More info and updates:

<https://ec.europa.eu/digital-agenda/en/content-and-media/data>