Open Data: A European Vision

Celina Ramjoué
Head of Sector - Open Access

European Commission
DG Communications Networks, Content & Technology (CONNECT)
Digital Science Unit

Fare i conti con l'ambiente - Workshop G: "Open data e rifiuti: il quadro europeo, le prospettive in Italia"

Ravenna, 20 maggio 2016

Outline

- Context: Digital Single Market
- Open data in science and research
- Open data in the public sector
- Open data e-infrastructure
- Conclusions

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Context: Digital Single Market (DSM)

Digital Single Market: "Market in which free movement of goods, persons, services and capital is ensured and where individuals and businesses can seamlessly access and exercise online activities."

Focus on maximising growth potential of the digital economy **by building a data economy**

Themes: Copyright reform, text and datamining, free flow of data, European Cloud initiative

→ **Key importance of data for society and the economy**

Support from EU Member States: 29 May 2015 Council Conclusions

The Council:

- RECOGNISES the high potential of the **data-driven economy**.

- REAFFIRMS the broad political support from Member States for setting better framework conditions for faster and wider **data-driven innovation** […].

→ **Member States emphasise the importance of the data-driven economy**

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Open Access (OA)

OA = free online access to and re-use of:

- peer-reviewed scientific publications
- research data

Expected benefits of open access:

- Good for science: efficiency, verifiability, transparency
- Good for the economy: access and take-up by industry
- Good for society: broader, faster, transparent & equal access for citizens

→ Open access can optimise the impact of publicly-funded research

Rules on Open Access for the EU-funded research (Horizon 2020)

- All **publications** resulting from Horizon 2020 must be open access

- Pilot action on opening up **research data** resulting from Horizon 2020 projects (with opt-out and opt-in possibilities)

- New focus on **research data management** (data management plans)

→ **Rules on open access for Horizon 2020: leading by example**

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Why open data (public sector)?

What data? Data produced/owned by the public sector (e.g. statistics, information on local public services such as waste)

Untapped business opportunities

Better governance and citizen empowerment: increases transparency, participation & efficiency

Address societal challenges: e.g. sustainability of health care systems; environmental challenges

Accelerate scientific progress: public sector information is research data

→ Open public sector information can lead to growth, improve transparency and help science

Access to re-usable Public Sector Information (PSI)

- **Information produced and collected by the public sector** can benefit EU citizens and businesses when made available as open data

- **Directive 2003/98/EC and its revision 2013/37/EU** on the re-use of public sector information (transposition in Member States almost complete):

  - ✓ creation of a genuine right to re-use public information
  - ✓ new default charging rule based on the marginal cost

Commission Decision 2011/833/EU

Re-use of European Commission documents, open to other EU institutions

Establishes EU (machine readable) open data portal http://open-data.europa.eu (cf. next section)

Charges for re-use limited to the marginal costs (in exceptional cases)

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Infrastructure for open science

OpenAire https://www.openaire.eu/

- Implements European open access policies

- Federated network of existing online archives and repositories

- Offers a repository for deposit: http://zenodo.org/

- OpenAIRE gives access to some 13 million publications and some 16 thousand datasets

- Network of National Open Access (Help)Desks (NOADs)

Infrastructure for public sector data

- A pan-European portal as a one-stop shop
  http://data.europa.eu/europeandataportal

- It provides access to datasets created and managed by public bodies in the Member States (incl. the national, regional and local levels)

- Multi-lingual search/querying

- With advanced visualization capabilities, tools for data aggregation and linking, browsing and search, user interfaces and support material

- Full Version 1.0 launched in February 2016

- Source code of the portal is available for reuse

Bringing it all together: European Cloud Initiative (announced 2016)

Data in the cloud: research data (European Open Science Cloud), e-government/public sector & industry data

Virtual environment to store, manage, analyse and re-use data

Bringing together existing and emerging data infrastructures

Added value: scale, inter-disciplinarity, data to innovation

Source: COM(2016)178 – 19 April 2016

→ **The European Cloud initiative potentially brings together all types of open data**

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- **EU institutions and Member States have a strong open data vision anchored in the Digital Single Market Strategy**

- **Data enables economic growth - Data innovation creates opportunities**

- **Data from publicly funded research should be open access**

- **Data from the public sector should be open and re-useable**

- **The EU funds e-infracture to sustain this vision**

Thank you!

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Celina.ramjoue@ec.europa.eu

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