



Progress in Open Access to European research data

The case of Horizon 2020

Data Sharing Working Group Side Event
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Michel SCHOUPPE
EUROPEAN COMMISSION
DG RTD - Directorate General Research & Innovation
Directorate Environment
Earth Observation Sector
Michel.Schouppe@ec.europa.eu



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- **One of the biggest research and innovation programme publicly funded worldwide:
nearly €80 billion of funding available over 7 years: 2014-2020**
- **Horizon 2020 launched on 13 December 2013:
Ongoing Call 2014 (€7.8 billion). More information from:
<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>**
- **Emphasis on three pillars: (i) excellent science, (ii) industrial leadership and (iii) tackling societal challenges**
- **The public research and innovation programme that is most open to international collaboration**
- **Streamlined research and innovation activities:
taking great ideas from the lab to the market to produce world-class science and remove barriers to innovation**
- **Provides research continuity in Europe notably to support GEOSS activities**
- **Promotes **Open Access** to scientific publications and research data**



Open Access in Horizon 2020

Why Open Access?

Increased impact of publicly-funded research and innovation

- Better science (build on previous results)
- More efficient science (avoid duplication & promote re-use)
- Economic growth (accelerated and open innovation)
- Improved transparency (involving citizens & society)

What meaning?

Open access (OA) = online access at no charge to any user

- To peer-reviewed scientific publications (new requirement !)
 - OA obligation (article 29.2 of the Model Grant Agreement)
 - Following a pilot experiment in the period 2006-2013 (FP7)
- To research data (new experiment !)
 - Open Research Data Pilot (*optional* article 29.3 of the Model Grant Agreement), monitored throughout Horizon 2020 in view of an EU policy on open research.



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Open Access in Horizon 2020

Pilot on Open Research Data in H2020

Types of data concerned:

- Data (including associated metadata) needed to validate the results presented in scientific publications ("underlying data").
- Other curated and/or raw data (including associated metadata) generated by the project.

Data Management Plans (new !):

As specified in the Data Management Plan(DMP), a mandatory 'living' deliverable by all projects participating in the Pilot:

- What data will be collected / generated in the course of the project?
- What data will be exploited? What data will be shared/made open?
- What standards will be used / how will metadata be generated?
- How will data be curated / preserved including after project completion



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Pilot on Open Research Data in H2020

Beneficiaries participating in the Pilot will:

- Deposit their data in a research data repository of their choice (see also listings of research data repositories such as: www.re3data.org or www.databib.org).
- Take measures to make it possible to access, mine, exploit, reproduce and disseminate free of charge (using e.g. 'Creative Commons' licences).
- Provide information about tools and instruments at the disposal of the beneficiaries and necessary for validating the results.

Cases exist for opting out of the Pilot

- Conflict with obligations mainly related to the protection of results, confidentiality or security issues, the protection of personal data, the achievement of the action's main objective.



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Pilot on Open Research Data in H2020

Horizon 2020 areas participating in the Pilot in 2014-2015:

- Future and Emerging Technologies
- Research infrastructures (eInfrastructures part)
- Leadership in enabling and industrial technologies – Information and Communication Technologies
- Societal Challenges: Secure, Clean and Efficient Energy – part Smart cities and communities
- Societal Challenge: Climate Action, Environment, Resource Efficiency and Raw Materials (except Raw Materials)
- Societal Challenge: Europe in a changing world – inclusive, innovative and reflective Societies
- Science with and for Society

Together these areas corresponds to 20 % of the overall Horizon 2020 budget in the period 2014-2015 (about €3 billion)

Projects in other areas can participate on a voluntary basis.

Horizon 2020 Work Programme 2014-2015

Section on 'Climate action, environment, resource efficiency and raw materials'

Open Access and GEOSS

- Many actions funded under this Societal Challenge ***will participate in the Pilot on Open Research Data in Horizon 2020.***
- Moreover, "Beneficiaries in projects participating in the Pilot on Open Research Data shall ***adhere to the GEOSS Data Sharing Principles*** and undertake to ***register in GEOSS all geospatial data, metadata and information generated as foreground of the project.***"
- "All activities (...) should as far as possible use data resulting from or made available through different initiatives of the European Commission. In particular, the ***utilisation of GEOSS*** (Global Earth Observation System of Systems) ***and Copernicus*** data, products and information should be ***privileged.*** (...)"



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Policy Background

- Communication: Towards better access to scientific information: Boosting the benefits of public investments in research COM(2012) 401 final
- Recommendation to the Member States on access to and preservation of Scientific Information C(2012) 4890 final
- ERA Communication: A Reinforced European Research Area Partnership for Excellence and Growth (COM(2012) 392 final)
- G8 Science Ministers Statement, London UK, June 2013
 - Open scientific research data: commitment to openness in scientific research data that should be easily discoverable, accessible, assessable, intelligible, useable, ...
 - Policy environment recognising researchers fulfilling these principles and appropriate digital infrastructures
 - Increased access to peer-reviewed results of scientific research



Thank you for your attention

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