



Open Research Data Pilot in Horizon 2020

How can OpenAIRE help?

Are you a Researcher,
Project Coordinator or
Research Manager participating in
the EC Open Research Data Pilot?

What is the Open Research Data Pilot?

Open data is data that is free to use, reuse and redistribute. The Open Research Data Pilot enables open access to and reuse of research data generated by Horizon 2020 projects. Participating projects are required to:

- Develop (and keep up-to-date) a Data Management Plan (DMP).
- Deposit their data in a research data repository.
- Ensure that third parties can freely access, mine, exploit, reproduce and disseminate it.
- Make clear what tools are needed to use the raw data to validate research results (or provide the tools themselves).

The Pilot applies to:

- ▶ the data (and metadata) needed to validate results in scientific publications.
- ▶ other curated and/or raw data (and metadata) specified in the DMP.

What's in it for you?

- Be part of the new era of **Open Science**, integrating **transparency**, **effectiveness** and **timeliness** into all areas of scientific methods and processes.
- Reach more **people**, have greater **impact**.
- Avoid duplication of effort and help **preserve** data for future researchers.
- **Simplify** final reporting by keeping your DMP up-to-date.

Do you have a Horizon 2020 grant? Do you manage your data in a FAIR way?

Are you part of the Pilot?

Projects covered by the Work Programme 2017 are part of the Open Data Pilot by default. As of Work Programme 2017, the Pilot has been extended to all areas of Horizon 2020 (except ERC PoC actions, SME instrument Ph1 actions, ERA-NET Cofund actions that do not produce data, EJP Cofund actions, and prizes).

If your project started before then and stems from one of following H2020 areas, you are automatically part of the Pilot as well:

- Future and Emerging Technologies.
- Research infrastructures – part e-Infrastructures.
- Leadership in enabling and industrial technologies – Information and Communication Technologies.
- Nanotechnologies, advanced.

- Societal Challenge: Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy.
- Societal Challenge: Europe in a changing world – inclusive, innovative and reflective Societies.
- Science with and for Society.
- Cross-cutting activities - focus areas – part Smart and Sustainable Cities.

Can you opt out? We hope you won't, but projects may opt out of the Pilot at any stage, partially or completely. See the EC Guide on OA for eligible reasons.

Note that in multi-beneficiary projects it is also possible for specific beneficiaries to keep their data closed if relevant provisions are made in the consortium agreement, which are in line with the reasons for opting out.

How can OpenAIRE help?

OpenAIRE provides a range of resources, FAQs, webinars and support pages. OpenAIRE has local representatives in all EU countries: the National Open Access Desks, or NOADs. Contact them via our helpdesk system at

www.openaire.eu

If there is no disciplinary or institutional repository available, researchers are welcome to use the Zenodo repository provided by OpenAIRE and hosted by CERN.

www.zenodo.org



What is a Data Management Plan (DMP)?

A DMP is a “living” document outlining how research data collected or generated will be handled during and after a research project. The EC provides guidance on what to address in a DMP in their “Guidelines on FAIR Data Management in Horizon 2020”. The Guidelines emphasise the goal to produce FAIR data: data that is Findable, Accessible, Interoperable and Re-usable.

- **Findable:** Make data discoverable with metadata and a standard identification mechanism (e.g. a DOI).
- **Accessibility:** Plan – and eventually provide – documentation and tools needed to access the data. If certain datasets cannot be shared, provide a clear reason why that is.
- **Interoperable:** Allowing data exchange and re-use between

researchers and institutions asks for standardised metadata and methodologies.

- **Re-usable:** Releasing data with a license clarifies how data can re-used.

In addition, DMPs should also address:

- Data volume and file formats
- Costs for FAIR data management and long-term preservation
- Data security
- Ethical issues

The DMP is not a fixed document, it gains substance as the project progresses. The first version of the DMP should be submitted within the first 6 months of the project. It should be updated, at the minimum, in time with the periodic evaluation/ assessment of the project.

How to set up a Data Management Plan?

You can find DMP templates at DMPonline, a tool developed by the Digital Curation Centre (DCC).

Sign up to DMPonline

<https://dmponline.dcc.ac.uk>

and watch the screencast to learn how to use it. Make sure to select the European Commission (Horizon 2020) from the list of research funders and select Additional DCC guidance. You can save your DMP anytime, share it and export it in various formats.

What about copyright and licensing?

Making research data openly accessible is best done using explicit licences. For information about licencing see:

- <http://opendefinition.org/guide/data>
- <http://opendefinition.org/licenses>
- http://wiki.creativecommons.org/Data_and_CC_licenses

Where to store the data?

You can store your data in a data repository, a digital archive collecting and displaying datasets and their metadata. Many data repositories also accept publications and allow linking them to their underlying data.

An overview of repositories can be found at Re3data: www.re3data.org.

If you have difficulties finding a suitable repository, you can use OpenAIRE’s catch-all repository, Zenodo.

It is advisable to contact the repository of your choice when writing the first version of your DMP. Repositories may offer guidelines for sustainable data formats and metadata standards, as well as support for handling with sensitive data and licensing.

About OpenAIRE

OpenAIRE fosters the social and technical links that enable Open Science in Europe and beyond.

www.openaire.eu

For more information, please contact: info@openaire.eu

Other links

EC’s Guide on Open Access to Scientific Publications and Research Data in Horizon 2020:

http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf

EC’s Guidelines on Data Management in Horizon 2020:

http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf

EC’s Agenda on Open Science:

<https://ec.europa.eu/digital-agenda/en/open-science>

DCC’s DMPonline tool:

<https://dmponline.dcc.ac.uk>