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 in Horizon 2020?

What is the Open Research Data Pilot?

Open data is data that is free to use, reuse, and redistribute. The Open Research Data Pilot aims to make the research data generated by Horizon 2020 projects open. Starting from 2017 participating in the pilot will be the default option, requirements are:

- Develop (and keep up-to-date) a Data Management Plan (DMP).
- Deposit your data in a research data repository.
- Make sure third parties can freely access, mine, exploit, reproduce and disseminate it.
- Make clear what tools will be 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) that you specify 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 thanks to an up-to-date DMP.

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

Are you part of the Pilot?

Projects starting from January 2017 are by default part of the Open Data Pilot.

If your project started before that date, and stems from one of these Horizon 2020 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 Materials, Advanced Manufacturing and Processing, and Biotechnology: 'nanosafety' and 'modelling' topics.

- Societal Challenge: Climate Action, Environment, Resource Efficiency and Raw materials – except raw materials.

- 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 don't, but projects may at any stage opt out of the Pilot, partially or completely. See the EC Guide on OA (link overleaf) 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 and 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 that someone else will need to access the data. If certain datasets cannot be shared a clear reason why should be provided.

- **Interoperable:** Allowing data exchange and re-use between researchers and institutions asks for standardized metadata and methodologies.

- **Re-usable:** Providing data with a license will make it clear how data can be re-used.

Further to the FAIR principles, DMPs should also address:
- The Data volume and file formats
- Costs for making data FAIR and for long-term preservation
- Data security
- Ethical issues

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

How to set up a Data Management Plan?

You can find a template for your DMP in DMPonline, a tool developed by the Digital Curation Centre (DCC). Sign up to DMPonline

https://dmponline.dcc.ac.uk

and take a look at the screencast on how to use it. Make sure you select European Commission (Horizon 2020) from the list of research funders and check 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. Information about this is available at:

- http://opendefinition.org/guide/data

- http://opendefinition.org/licenses

- http://wiki.creativecommons.org/Data_and_CC_licenses

Where to store the data?

A data repository is a digital archive collecting and displaying datasets and their metadata. A lot of data repositories also accept publications, and allow linking between publications and their underlying data.

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

If you have no other suitable place to deposit your data, you can use OpenAIRE's catch-all repository, Zenodo.

It is advisable to contact the long-term data repository of one's choice when writing the first version of a DMP. Repositories may offer guidelines for sustainable data formats and metadata standards, as well as support for dealing 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