



Open Science CLINIQUE for NCP CaRE Network, 26 Apr 2018

Obligations in H2020: What is expected from candidates on Open Access/Open Data Mandates?

Seminar Hosts & Agenda:



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LUXINNOVATION



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H2020 FOSTER+

Why this webinar series?
NCP-NOADs Matchmaking
Key Presentation by Jessica Rex
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Key Talk Agenda:



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What is Open Access?
Open Access Mandate
Open Research Data Mandate
Data Management Plans
Repositories and Licensing
OpenAIRE support

What is Open Access?

Open-access (OA) literature is digital, online, free of charge, and free of most copyright and licensing restrictions. What makes it possible is the internet and the consent of the author or copyright-holder.

Open Access Explained <http://phdcomics.com/tv/?v=L5rVH1KGBCY> by PhD Comics

Open Access routes



Open Access benefits

- Increases research **efficiency**
- Promotes **scholarly rigour** and enhances **research quality**
- Enhances **visibility** and **engagement (more citations!)**
- Enables the creation of **new research questions**
- Enhances **collaboration** and community building

(Source: Open To All? Case studies of openness in Research <http://>)

www.rin.ac.uk/system/files/attachments/NESTA-RIN_Open_Science_V01_0.pdf

EC OA-Mandate

FP7 OA Pilot (2008)

- Grant Agreements SC39
- 20% of all programmes
- deposit in a repository

Horizon 2020 (2015)

- all Grant Agreements
- 100% of programmes
- deposit in a repository
- Open Data Pilot



Open Access in Horizon 2020

“Ensure open access... as soon as possible and at the latest on publication, **deposit** a machine-readable electronic copy of the published version or final peer-reviewed manuscript accepted for publication **in a repository** for scientific publications”



Horizon 2020 Grant Agreement



What does that mean?

- **immediate deposit** of peer reviewed scientific publications
 - i.e. journal articles
- deposit **in a repository** (machine readable form and even Gold OA)
 - respect embargo periods (6 months STEM, 12 months SSH)
- if possible by **using an open license**
 - e.g. Creative Commons Attribution (CC-BY)
- always **acknowledge funding** in paper and meta data!
- if possible **deposit data**

Open Research Data Pilot: Aims

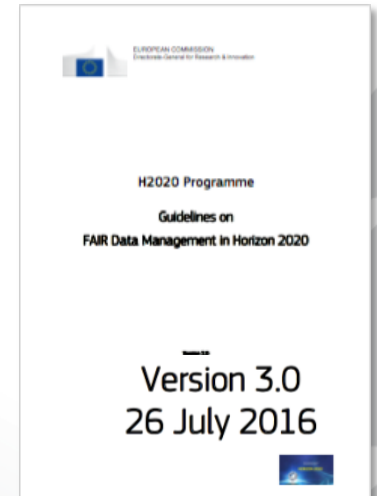
To make the research data generated by Horizon 2020 projects **accessible with as few restrictions as possible**, while at the same time protecting sensitive data from inappropriate access.



As open as possible, as closed as necessary !

What does that mean?

- deposit the **data** underlying your scientific publications, including the **metadata**, **documentation** and **tools** needed to validate the results, in a research data repository
- all projects with start date after January 1st 2017 are **automatically** part of the pilot
- projects with an earlier start date: certain H2020 areas
- sharing more data is encouraged
- write, and keep up-to-date, a Data Management Plan
- opting out – fully or in part – is possible



AS OPEN AS POSSIBLE, AS CLOSED AS NECESSARY

Grantees have the right to **opt-out**, but need to say **why**



Reasons for total or partial opting out

- incompatibility with the Horizon 2020 obligation to protect results if they can reasonably be expected to be commercially or industrially exploited;
- incompatibility with the need for confidentiality in connection with security issues;
- incompatibility with existing rules concerning the protection of personal data;
- if the project does not generate / collect any research data;
- other legitimate reasons

Reasons must be specified in DMP or in amendment to the MGA!



Data Management Plans

RESEARCH DATA - OPEN BY DEFAULT

Projects must have



DATA
MANAGEMENT
PLAN
(DMP)

Provides information on:



the data the research
will generate



how to ensure its
curation, preservation and
sustainability



what parts of that data
will be open (and how)

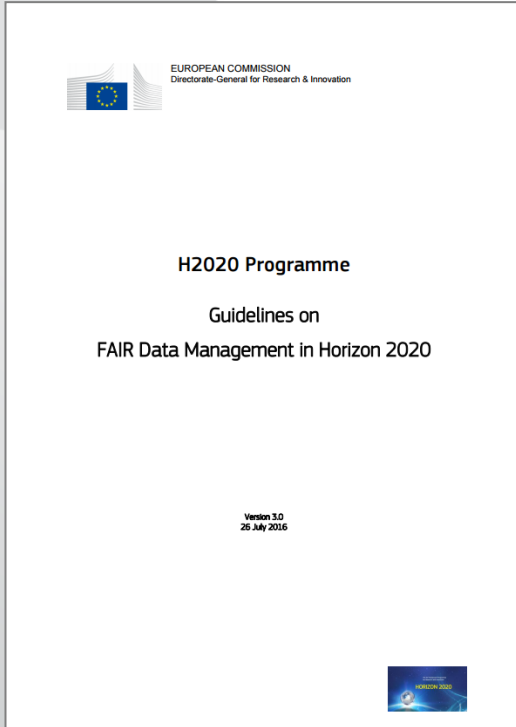
What is a DMP?

A DMP is a brief plan to define:

- how the data will be created
- how it will be documented
- who will be able to access it
- where it will be stored
- who will back it up
- whether (and how) it will be shared & preserved

DMPs are often submitted as part of grant applications, but are useful whenever researchers are creating data.

FAIR Data Management guidelines



- notes the extension of the pilot
- clarifies concept of FAIR data
- explains what a DMP is and when they should be updated
- notes what happens at proposal, submission and evaluation
- explains costs are eligible (see also art. 6.2.D.3 MGA)
- provides a DMP template

RESEARCH DATA - OPEN BY DEFAULT



A FAIR approach to DMPs

A FAIR approach to DMPs

- **Findable**

- *Assign persistent IDs, provide metadata, register in a searchable resource...*

- **Accessible**

- *Retrievable by their ID using a standard protocol, metadata remain accessible even if data aren't...*

- **Interoperable**

- *Use formal, broadly applicable languages, use standard vocabularies, qualified references...*

- **Reusable**

- *Rich metadata, clear licences, provenance, use of community standards...*

H2020 template

1.Data summary

2.FAIR data

2.1 Making data findable, including provisions for metadata

2.2 Making data openly accessible

2.3 Making data interoperable

2.4 Increase data re-use (through clarifying licences)

3.Allocation of resources

4.Data security

5.Ethical aspects

6.Other issues

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

Key differences in H2020

- The Commission does **NOT** require applicants to submit a DMP at the proposal stage. It's a deliverable (due by month 6).
- A DMP is therefore **NOT part of the evaluation**
- optional section on data management in proposal is worth doing, especially to help justify costs
- DMP is a **living** or “active” **document** that should be updated whenever important changes occur (or at review times)

Example DMP plans



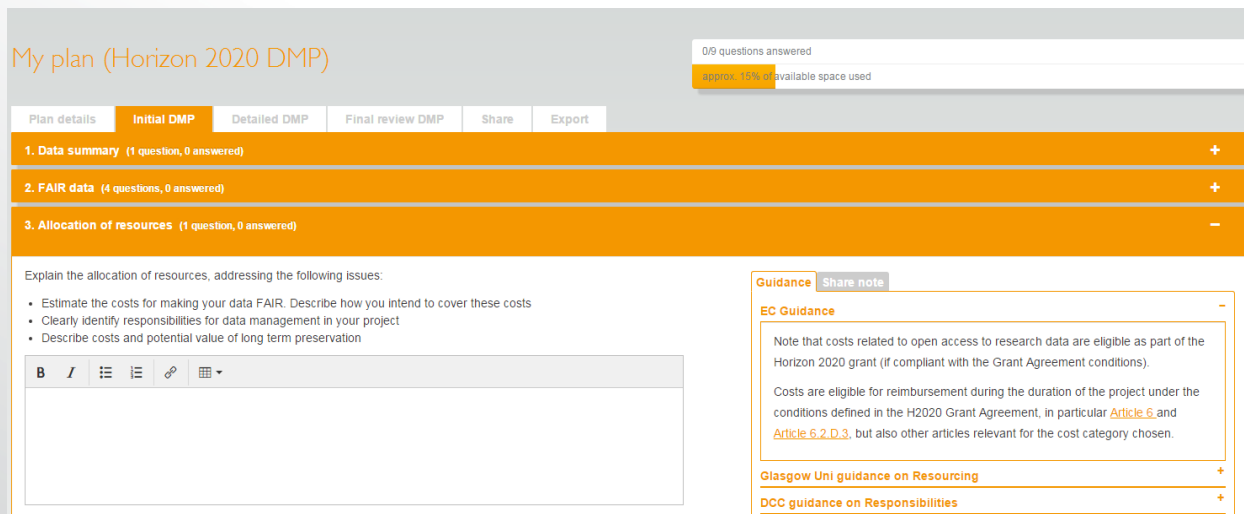
Example H2020 DMPs in Zenodo

- Helix Nebula – High Energy Physics example
- <https://zenodo.org/record/48171#.WATexnriF40>
- Tweether – engineering (micro-electronics) example
- <https://zenodo.org/record/55791#.WATei3riF40>
- AutoPost – ICT example <https://zenodo.org/record/56107#.WATefXriF40>
- More listed at: www.dcc.ac.uk/resources/data-management-plans/guidance-examples

What is DMPonline?

A web-based tool to help researchers write DMPs

Includes a template for Horizon 2020



My plan (Horizon 2020 DMP) 0/9 questions answered
approx. 10% of available space used

Plan details **Initial DMP** Detailed DMP Final review DMP Share Export

1. Data summary (1 question, 0 answered) +

2. FAIR data (4 questions, 0 answered) +

3. Allocation of resources (1 question, 0 answered) -

Explain the allocation of resources, addressing the following issues:

- Estimate the costs for making your data FAIR. Describe how you intend to cover these costs
- Clearly identify responsibilities for data management in your project
- Describe costs and potential value of long term preservation

B / *I* [List Icons] [Link Icon] [Grid Icon]

Guidance Share note

EC Guidance -

Note that costs related to open access to research data are eligible as part of the Horizon 2020 grant (if compliant with the Grant Agreement conditions).

Costs are eligible for reimbursement during the duration of the project under the conditions defined in the H2020 Grant Agreement, in particular [Article 6](#) and [Article 6.2.D.3](#), but also other articles relevant for the cost category chosen.

Glasgow Uni guidance on Resourcing +

DCC guidance on Responsibilities +

National / local DMP Tools



Bienvenido/a.
PGDOnline ha sido desarrollado por el Digital Curation Centre y Madroño como herramienta para elaborar planes de gestión de

Video sobre cómo usar PGDOnline



Contactar con nosotros | Condiciones de uso
© 2004 - 2017 Consorcio Madroño

The screenshot shows the DMP OPIDoR website. At the top left is the logo for DMP OPIDoR. Below it, the text reads: "Welcome. DMP OPIDoR (DMP pour une Optimisation du Partage et de l'Interopérabilité des Données de la Recherche) will help French researchers to write Data Management Plans." There are navigation links for "Home", "About", and "Help". A "Log in" button is visible. Below the welcome message, there is a video player with the title "Videos on how to use DMP OPIDoR" and a video thumbnail with the text "Se connecter".

The screenshot shows the Tuuli website. At the top left is the logo for Tuuli. Below it, the text reads: "Welcome. Data management planning tool Tuuli will help you write data management plans." There are navigation links for "Home", "About", and "Help". A "Log in" button is visible. Below the welcome message, there is a video player with the title "Screenshot on how to use DMPTuuli" and a video thumbnail showing the Tuuli interface.

The screenshot shows two forms. The top form is titled "Log in" and contains fields for "Email address *" and "Password *", a "Forgot your password?" link, a "Remember me" checkbox, and a "Log in" button. The bottom form is titled "Sign up" and contains a "New to DMPTuuli? Sign up today." link.

Contact us | Terms of use
© 2004 - 2017 Digital Curation Centre (DCC)

Delivered by
DCC
Powered by
DMP
ONLINE

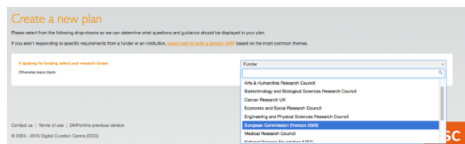
<https://github.com/DMPRoadmap/roadmap/wiki/Local-installations-inventory>

OpenAIRE guidelines on writing DMPs

FIRST STEPS

It is recommended to refer the Principal Researcher to the Digital Curation Centre [DMPonline tool](https://www.dcc.ac.uk/), which offers DMP templates that match the demands and suggestions of the Guidelines on Data Management in Horizon 2020.

1. Sign up to [DMPonline](#)
2. Select [Create plan](#)
3. Select [European Commission \(Horizon 2020\)](#) from the list of research funders:



4. Optionally, select a relevant organisation from the list of organisations to see institutional questions and/or guidance. (Anyone can use DMPonline. If your organisation is not listed, just select [other organisation](#).)
5. It is recommended to check the box for additional DCC guidance.
6. Select [Create plan](#).
7. The first DMP to be written in a project participating in the Open Research Data Pilot would typically be based on the "Initial DMP" template.

A DMP in DMPonline can be saved anytime. It can also be shared and it can be downloaded in various formats. A screencast on how to use DMPonline is available via the home page.

<https://www.openaire.eu/opendatapilot-dmp>

Where to find a repository?

1

Use an external data archive or repository already established for your research domain to preserve the data according to recognised standards in your discipline.

More information for **selecting a data repository.**

2

If available, use an institutional research data repository, or your research group's established data management facilities.

3

Use a cost-free data repository such as Zenodo.


Research. Shared.

4

Search for other research data repositories in <http://re3data.org/>


REGISTRY OF RESEARCH DATA REPOSITORIES

More information: <https://www.openaire.eu/opendatapilot-repository>

Zenodo: <http://www.zenodo.org>

Re3data.org: <http://www.re3data.org>

Zenodo (OpenAIRE/CERN repository)

(All) Research.
Shared.

— your one stop research shop!

All research outputs from across all fields of science are welcome! Zenodo accept any file format as well as both positive and negative results. However, we do promote peer-reviewed openly accessible research, and will curate your upload before putting it on the front-

Citeable.
Discoverable.

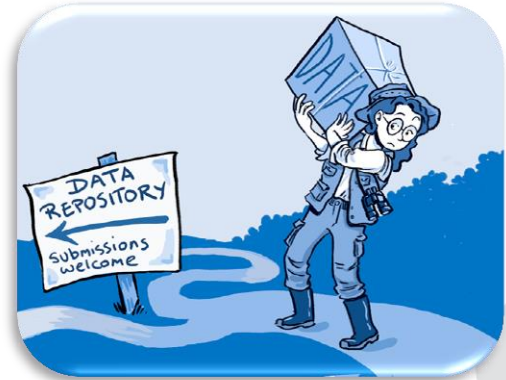
— be found!

Zenodo assigns all publicly available uploads a Digital

Community
Collections

— create your own repository

Zenodo allows you to create your own collection and accept or reject all uploads to it. Creating a space for your next workshop or project have never been easier. Plus, everything is citeable and discoverable.



Safe

— more than just a drop box!

Your research output is stored safely for the future in same cloud infrastructure as research data from CERN's Large Hadron Collider using a CERN's battle-tested repository software **INVENIO** used by some of the world's largest repositories such as **INSPIRE HEP** and **CERN Document Server**.

Reporting

— tell your funding agency!

Zenodo is integrated into reporting lines for research funded by the European Commission via **OpenAIRE**. Just upload your research on Zenodo and we will take care of the reporting for you. We plan to extend with further funding agencies in the future so stay tuned!

Flexible
Licensing

— not everything is under Creative Commons

Zenodo encourage you to share your research as openly as possible to maximize use and re-use of your research results. However, we also acknowledge that one size does not fit all, and therefore allow for uploading under a **multitude of different licenses and access levels***.

* You are responsible for respecting applicable copyright and license conditions for the files you upload.

www.zenodo.org

Licensing research data



Horizon 2020 Open Access guidelines point to:



or



This DCC guide outlines the pros and cons of each approach and gives practical advice on how to implement your licence

CREATIVE COMMONS LIMITATIONS



NC Non-Commercial

What counts as commercial?



ND No Derivatives

Severely restricts use

These clauses are not open licenses

Licensing research data and software

EUDAT licensing wizard helps to pick licences for data & software



Do you own copyright and similar rights in your dataset and all its constitutive parts?

Yes

No

Do you allow others to make commercial use of you data?

Yes

No

Creative Commons Attribution (CC-BY)

This is the standard creative commons license that gives others maximum freedom to do what they want with your work.

Public Domain Dedication (CC Zero)

CC Zero enables scientists, educators, artists and other creators and owners of copyright- or database-protected content to waive those interests in their works and thereby place them as completely as possible in the public domain, so that others may freely build upon, enhance and reuse the works for any purposes without restriction under copyright or database law.

Horizon 2020 Open Access guidelines point to:



or



Candidates should also license Open Access data, or waive rights.



Thank you!

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Open Science CLINIQUE for NCP CaRE Network, 26 Apr 2018

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