OPEN SCIENCE IS A RESEARCH ACCELERATOR



•

•

•••







Gita Rozenberga National Open Access Desk - Latvia Library of the University of Latvia





A



.

Denaire European Commission



What is Open Science

Open Access

Open Data

Benefits of Open Science

Open science Open science is the movement to make scientific research, data and dissemination accessible to all levels of an inquiring society.





4



Why?



Source: https://uerick.files.wordpress.com/2013/04/justifi.jpg

Economic threat need

Philosophical view will

Technical possibility capacity

Open Access

Free, permanent, full-text online access without financial, legal and technical barriers - the right to read, download, copy, save, print, share, respecting copyright, quoting the author of the work and maintaining the integrity of the work.





"I do not belong to the academic world, but I would like to do research all the same."

Julian, passionate about sciences and new technologies

> DIYBio #hackerspace Openlab

Sounds familiar?

Source: HackYourPhD community, http://hackyourphd.org/en/2014/07/the-diy-ha



Open Data

Open Data are online, free of cost, accessible data that can be used, reused and distributed provided that the data source is attributed.

The way data is organized and archived is very important for the research reproducibility.

Benefits

- For research and publication
- Teaching staff and students
- Benefits to author
- Benefit to readers
- Benefit to Society
- Journals and publishers

- Citizens
- Libraries
- Universities



 Funding agencies Governments Benefits to nations

EC interest

- Accelerating research and increase R&D investment profits
- Avoiding research duplication
 - Cross-sectoral research, inter-institutional and national cooperation
 - Wider and faster opportunities for using research results in business
 - Return of public investment



EUROPEAN OPEN SCIENCE CLOUD BRINGING TOGETHER CURRENT AND FUTURE DATA INFRASTRUCTURES

Carlos Moedas,

Commissioner for Research Science and Innovation, 19.4.2016

«Our goal is to create a European Open Science Cloud to make science more efficient and productive and let millions of researchers share and analyse research data in a trusted environment across technologies, disciplines and borders.»



Open and seamless services to analyse and reuse research data

ch

Connecting across borders and scientific disciplines

8



Improving science



LA Referencia

sitorios de acceso abierto a la ciencia

PEN4CITIZENS

THE HORIZON 2020 MANDATES:

OPEN ACCESS & OPEN DATA



•

•••





Gita Rozenberga National Open Access Desk - Latvia





OpenAIRE project for the scientific society and beyond





Research results and dissemination Horizon 2020 requirements



The aim is to facilitate, improve the exchange of information within the European scientific area and beyond.













Dissemination



Source: Guidelines to the Rules on Open Access to Scientific Publications and Open Access to Research Data in Horizon 2020 Version 3.2, http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf





H2020 Programme

Multi-Beneficiary General Model Grant Agreement

2020 General MGA — Mult

Version 5.0

'his document is aimed at assisting applicants for Horizon 2020 funding. It shows the full range of provisions that nay be applied to this type of grant agreement, and is provided for information purposes only. The legally binding

"Ensure open access... as soon as possible and the latest on publication, deposit a machinereadable electronic copy of the published version or final peerreviewed manuscript accepted for publication in a repository for scientific publications"

Source: Guidelines to the Rules on Open Access to Scientific Publications and Open Access to Research Data in Horizon 2020 Version 3.2, http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf

4 steps to getting open access articles

1. Submit papers to a journal of choice, there is no restriction. If a researcher chooses to publish in an OA journal, publishing costs can be reinbursed within the project period and budget.

2. **Deposit** final manuscript or publishers PDF in a repository, either institutional or disciplinary.

3. Acknowledge project funding, both in the publication and in the metadata: each publication should add the EC grant agreement number.

4.Each paper must have a publication date, a date of release in open access (Embargoed if necessary) and a persistent identifier.





Issues to consider

Publishing all articles in APC based OA journals is probably no the right solution as it can lead to a substantial amount of the project budget. \rightarrow a mix of depositing articles and publishing in OA journals is higly recommended.

• The growing OA market comes with some challenges. \rightarrow lots of new publishers/journals some of questionable quality. Consult white list such as http://doaj.org/

Source: Open Access to Publications in H2020, https://www.youtube.com/watch?v=M9aBPbtsrKs



EUROPEAN COMMISSION Directorate-General for Research & Innovation

H2020 Programme

Guidelines to the Rules on Open Access to Scientific Publications and Open Access to Research Data in Horizon 2020

> Version 3.2 21 March 2017



Flexible ORD pilot: From limited to default in 2017

Foster Open Science

 Avoid duplication of research and loss of resources

Data Management

Open Access to research data (or partially opt-out)

Source: Open Access to Research Data in Horizon 2020, https://www.youtube.com/watch?v=fFvLs7a5TuY



Which areas are participating?

Projects started in 2014-2016 **Limited ORD Pilot**

- Limited ORD pilot: some areas: Check Article 29.3
- DMP/Dataset

Possibility to opt-in or opt-out

From 2017 **Extended ORD Pilot**

- Participating is default ٠ option for all projects
- 1 DMP/Project ٠
- Possibility to opt-out ٠

Source: Open Access to Research Data in Horizon 2020, https://www.youtube.com/watch?v=fFvLs7a5TuY

21

How to find a repository?

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.

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

Use a cost-free data repository such as Zenodo. zeno

Research, Shared

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

3

Source: OpenAIRE and Eudat services and tools to support FAIR DMP implementation, https://www.slideshare.net/ResearchDataAlliance/openaire-and-eudat-services-and-tools-to-support-fair-dmp-implementation-68900290

2



4





www.openaire.eu



OpenAIRE portal

https://www.openaire.eu/



Making the transition of

how research is performed







Services

Reseacher, research community, content provider, or manager of research? Find a service that matches your needs.



Policies

Looking for information and instructions on open science policies? Access our resources or ask us a question.



Training

Need to learn how to implement open science? Browse through our guides and webinars. See what is coming next, or contact us for assistance.



Project OpenAIRE basis :

- Human support network
- Infrastructure
- Politics



Project OpenAIRE



- International project, EC •
- Long-term project •
 - OpenAIRE (2009-2012)
 - OpenAIRE plus (2012-2014)
 - OpenAIRE (2015-2018)

OpenAIRE-Advance (2018-2020)

Project OpenAIRE - Latvia

- Regional representative University of Latvia
- Functions:
 - support for researchers, research project managers, science policy makers, publishers, library specialists all over Latvia
 - explaining open access ideas to the society
 - providing information to interested parties / representatives of the scientific community outside Latvia

National Open Access Desk – Latvia

www.napd.lu.lv

Contact information

Gita Rozenberga National Open Access Desk - Latvia email: <u>napd@lu.lv</u>



