



Open access to research data in an Open Science Context

SYSLOG Training

'Open Access Policies and Requirements to Publications and Research Data in Horizon 2020'

September 2015

Agenda

Open Access to Publications in Horizon 2020

- Open Science and Open Access- the policy context
- Practical implementation
- *Questions and Answers*

Coffee break

Open Access to Research Data in Horizon 2020

- The Open Data Pilot: Policy context and update
- The Open Data Pilot: Practical implementation
- *Questions and Answers*
- Case study

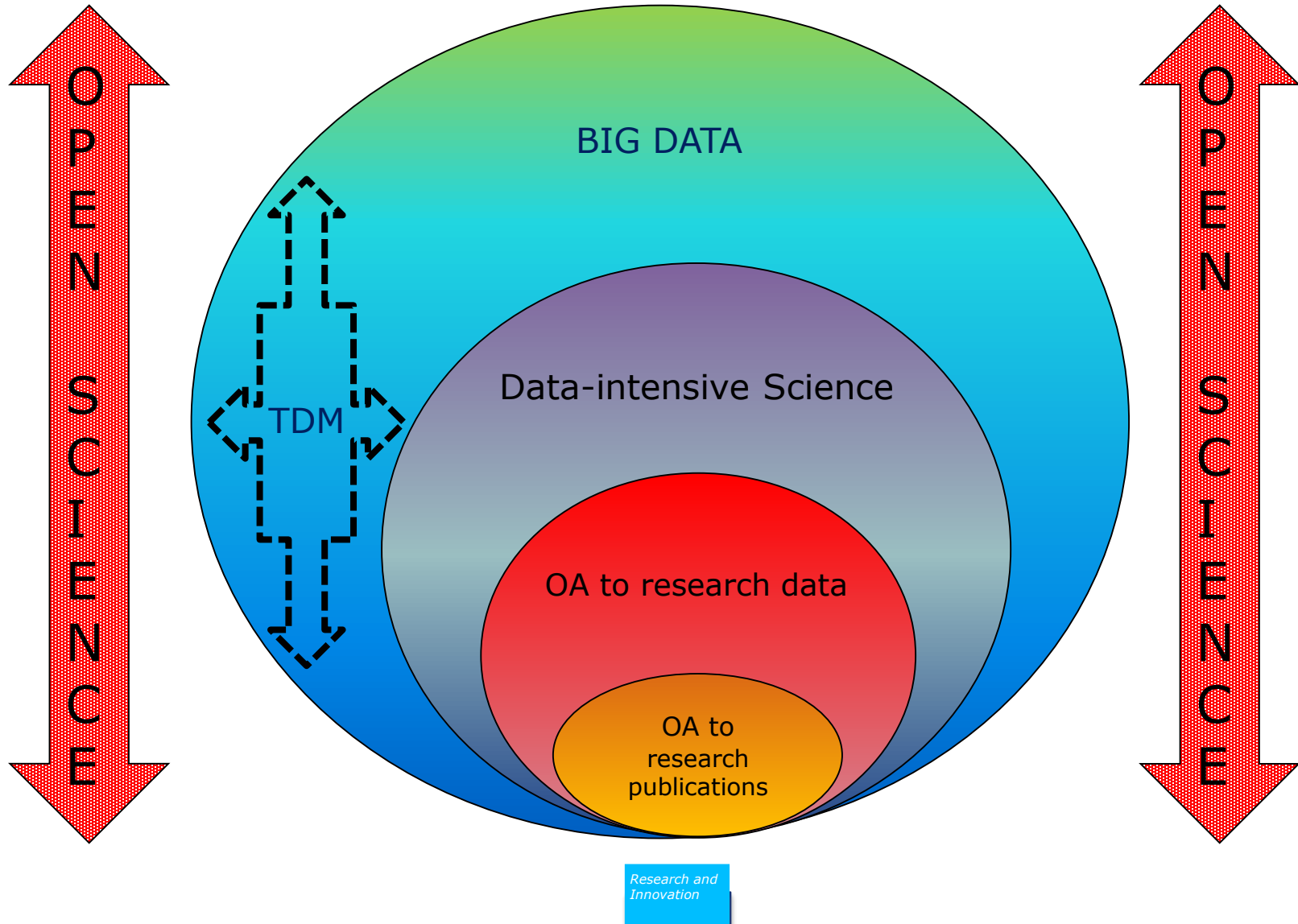
OPENAIRE support

Final Q&A

Open **Research** Data (ORD)

- ORD refers to making research data freely available for reuse beyond the purpose for which they were originally collected
- Making Research data freely available aid further discovery, make scientific process more cost efficient and reliable
- ORD is part of a broader change: data driven science underpinning Open Science

ORD "small" part of Open Data



Open Science Competitiveness Council 29 May 2015

Member States have expressed their wish for the development of a European Open Science Agenda

Council Conclusion, 29 May 2015:

CALLS for action to remove obstacles to wide access to publicly funded research publications and underlying data;

CALLS for actions addressing better data management and, in this context, WELCOMES the Pilot on Open Research Data under Horizon 2020;

In the context of the implementation of the European Research Area (ERA), LOOKS FORWARD to the possible development of action plans or strategies for open science



Pilot on Open Research Data in H2020

Key questions:

Which thematic areas are covered?

What data is covered?

What are the requirements?

What about data management?

Pilot on Open Research Data in H2020

Areas of the **2016-2017** Work Programme participating in the Open Research Data Pilot are:

- Future and Emerging Technologies
- Research infrastructures – (**new**: coverage of the whole area)
- Leadership in enabling and industrial technologies – Information and Communication Technologies
- Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology: ‘nanosafety’ and ‘modelling’ topics (**new**)
- Societal Challenge: Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy - selected topics as specified in the work programme (**new**)
- Societal Challenge: Climate Action, Environment, Resource Efficiency and Raw materials – except raw materials

Pilot on Open Research Data in H2020 cont.

- 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 (**moved from Energy WP**)

Projects in other areas are encouraged to participate on a voluntary basis!

Pilot on Open Research Data in H2020

Projects may opt in a series of cases, at any stage

- If the project will not generate / collect any data
- Conflict with obligation to protect results
- Conflict with confidentiality obligations
- Conflict with security obligations
- Conflict with rules on protection of personal data
- If the achievement of the action's main objective would be jeopardised by making specific parts of the research data openly accessible (to be explained in data management plan)

Approach: as open as possible, as closed as necessary

Pilot on Open Research Data in H2020

Types of data concerned:

- Data needed to validate the results presented in scientific publications ("underlying data")
- Other data as specified in data management plan (=up to projects)

Beneficiaries participating in the Pilot will:

- Deposit this data in a research data repository of their choice
- Take measures to make it possible to access, mine, exploit, reproduce and disseminate free of charge
- Provide information about tools and instruments at the disposal of the beneficiaries and necessary for validating the results (where possible, provide the tools and instruments themselves)

EC: Support & monitoring (Annotated MGA, Specific guidance etc...)

Data management Plans in Horizon 2020

- Data Management Plans (DMPs) mandatory for all projects participating in the Pilot, **optional for others**
- DMPs are NOT part of the proposal evaluation, they need to be generated within the first 6 months of the project and updated as needed
 - All proposers to submit general information on data management - evaluated under criterion 'Impact'
- DMP questions:
 - *What data will be collected / generated?*
 - *What standards will be used / how will metadata be generated?*
 - *What data will be exploited? What data will be shared / made open?*
 - *How will data be curated and preserved?*

ORD Pilot: a chance to co-shape policy

- Opening up research data: the new frontier
- Ambitious, yet pragmatic design of the pilot: broad scope, opt-out, voluntary participation possible
- Pilot is flexible; numerous safeguards in place
- Aim: kick-starting a virtuous circle
- Uptake of and experiences with the Pilot need to be monitored during the complete life cycle of a project: from application, to grant preparation, execution and final reporting
- **Participating in the Pilot means co-shaping European policy on opening up research data**

Proposal ID Acronym Go to

5 - Call specific questions

Open Research Data Pilot in Horizon 2020

If selected, all applicants will participate in the [Pilot on Open Research Data in Horizon 2020](#)¹, which aims to improve access to and re-use of research data generated by actions. Participating in the Pilot does not necessarily mean open up all research data. Actions participating in the Pilot will be invited to formulate a Data Management Plan in which they will determine which of the research data they generate will be made open.

Applicants have the possibility to opt out of this Pilot and must indicate a reason for this choice.

Participation in this Pilot does not constitute part of the evaluation process. Proposals will not be evaluated favourably because they are part of the Pilot and will not be penalised for opting out of the Pilot.

We wish to opt out of the Pilot on Open Research Data in Horizon 2020. ☒ Yes

Please indicate the reason(s) for not being able to participate in the Pilot:

- the project does not generate any data

- [to allow the protection of results \(e.g. patenting\)](#)

- [incompatibility with the need for confidentiality linked to security reasons](#)

- [incompatibility with privacy/data protection reasons](#)

- [achievement of the project's main aim would be jeopardised](#)

- other legitimate reasons

Please specify the reason:

Other legitimate reasons (Maximum 300 characters)

Remaining characters 300

Proposal ID Acronym Go to

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Open Research Data Pilot in Horizon 2020

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We wish to participate in the [Pilot on Open Research Data in Horizon 2020](#) on a voluntary basis ☒ Yes ☐ No

Participation in this Pilot does not constitute part of the evaluation process. Proposals will not be evaluated favourably because they are part of the Pilot and will not be penalised for not participating.

¹ According to article 43.2 of Regulation (EU) No 1290/2013 of the European Parliament and of the Council, of 11 December 2013, laying down the rules for participation and dissemination in Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020) and repealing Regulation (EC) No 1906/2006.

Data management activities

The use of a [Data Management Plan \(DMP\)](#) is required for projects participating in the [Open Research Data Pilot in Horizon 2020](#), in the form of a deliverable in the first 6 months of the project.

All other projects may deliver a DMP on a voluntary basis, if relevant for their research.

Are data management activities relevant for your proposed project? ☒ Yes ☐ No

A Data Management Plan will be delivered (Please note: Projects participating in the Open Research Data Pilot **must** include a Data Management Plan as a deliverable in the first 6 months of the project).

Data Management is part of a Work Package.

Data Management will be integrated in another way.

Please indicate how data management will be addressed in your project:

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Remaining characters 300

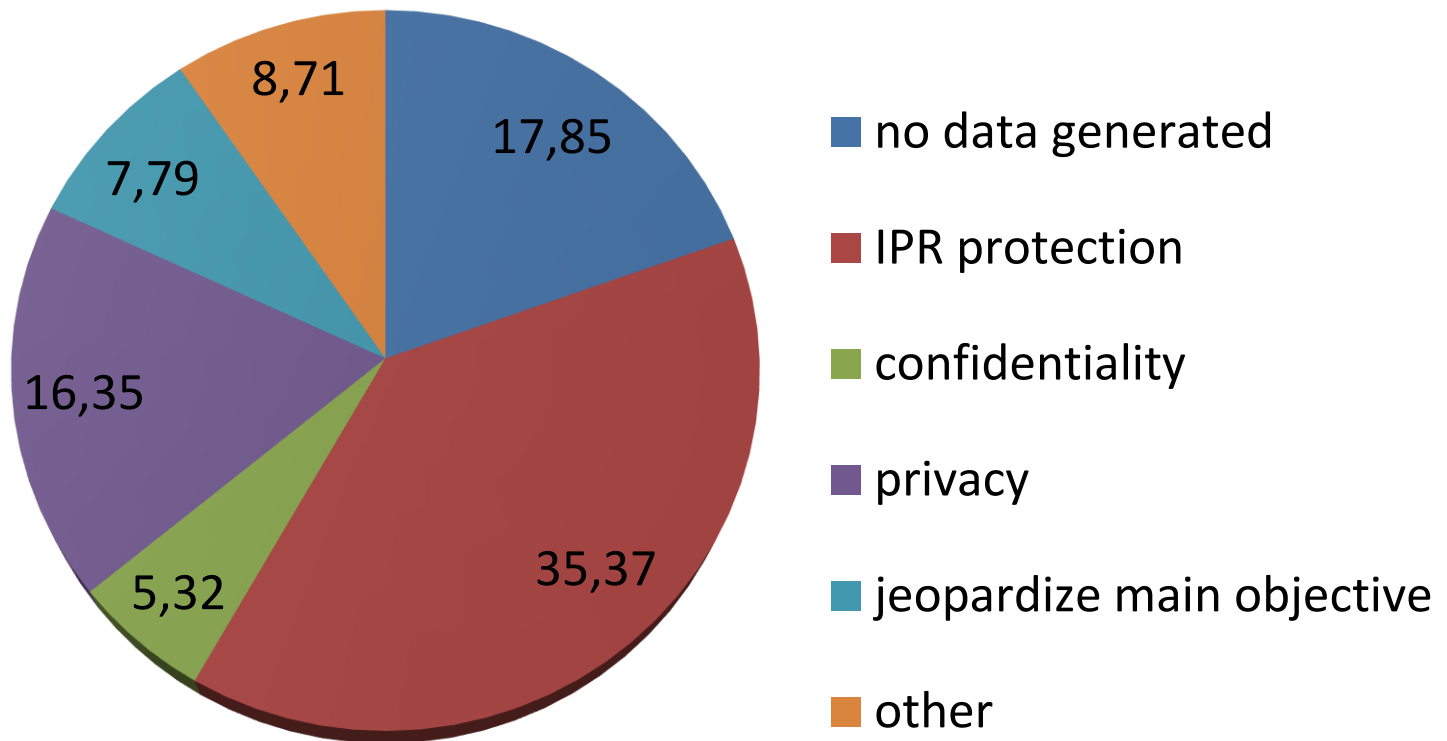
Forms on the participant portal

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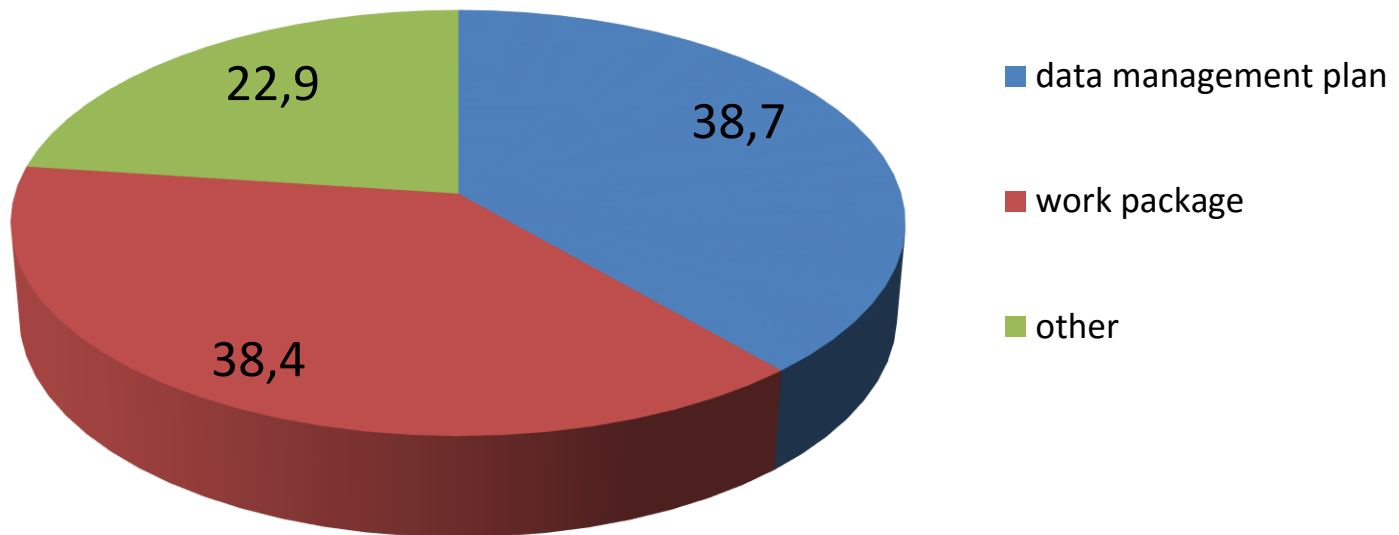
ORD Pilot: take-up in first calls of H2020

- Basis: 3699 Horizon 2020 **signed grant agreements**
- Calls in core-areas: **opt out 34,6%** (149/431)
 - In other words 65,4% of projects in the core areas participate in the ORD pilot.
- Other areas: voluntary **opt in 11,9%** (409/3268)
 - Limited divergence from 2014 proposal figures but larger dataset used
 - Note that 100% participation is not feasible or even desirable (e.g. not all projects generate data)

ORD Pilot: opt-out reasons among proposals



ORD Pilot: approach to data management among proposals



Ongoing coordination and support actions (FP7 funded)

PASTEUR4OA (Open Access Policy Alignment Strategies for European Union Research) Started 2014

FOSTER (Foster Open Science Training for European Research) Started 2014

RECODE - (Policy Recommendations for Open Access to Research Data in Europe) – 2013, finishing

OpenAIRE/OpenAIRE+: supporting the implementation of Open Access in Europe (publications and data)

Infrastructure projects (with OA components), e.g. GEO/GEOSS, ELIXIR, EUDAT, CLARIN etc...

We welcome your input



Twitter:
@OpenAccessEC

Contacts DG RTD

Functional mailbox:
RTD-OPEN-ACCESS@ec.europa.eu

Ressources

List of research data repositories: **<http://www.re3data.org/>**

OpenAIRE: **www.openaire.eu**
<http://zenodo.org>

Data Management Plan:
Digital Curation Centre
<https://dmponline.dcc.ac.uk/>, **<http://www.dcc.ac.uk/resources/data-management-plans>**

H2020 guidance
http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf
http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf