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Data management plans
Focus: Horizon Europe

Lessons in Open Science
28.09.2021
Data Management Planning

Agenda

1. **Overview**: RDM, DMP, Horizon Europe
2. **Open Data?** How open should your data be?
3. **FAIR**: how to manage your data so that it is re-usable?
4. **How to do?** Some general advice
5. **Templates etc**: Material, services and resources
6. **Q & A**
Overview
“Research data management — The process within the research lifecycle that includes the organisation, storage, preservation, security, quality assurance, allocation of persistent identifiers and rules and procedures for sharing of data including licensing.”

(Horizon Europe Model Grant Agreement Annex 5)
Question to you

What can a DMP „do for you“?

⇒ Please write down 1-2 key words in the chat
Typical deliverables

(pre-) proposal

project start

mid project

end of project

short text sections on OSP & RDM

Initial DMP

Updated DMP

Dataset DOI

Final DMP
Proposal template Part B

Excellence - 1.2 Methodology

• Open science practices (up to 1 page)
• Research data management and management of other research outputs (max. 1 page)

Implementation

• 3.1 Work plan and resources
• 3.2 Capacity of participants and consortium as a whole
Proposal template Part B – Excellence – 1.2 Methodology

- **Open science practices** (up to 1 page)
  - mandatory
  - **immediate open access** to peer-reviewed publications
  - besides journals, additional archiving at trusted **repositories**
  - providing **access to research data** acc. FAIR principles
- non-mandatory
  - pre-registration, registered reports, pre-prints
  - open peer review
  - other research outputs
  - citizen science, civil society and end-user engagement
Open Data
What is meant by „Data“

Research Data,
Documentation

Other research outputs,

Common assets for research & innovation
What is meant by „Open“

- “as open as possible as closed as necessary”
  - OA = standard
  - exceptions possible, but no general opt-out anymore since 2020
  - degree of openness is relevant to evaluation
  - depends on the disciplines (and reviewers, of course)
What is meant by „Open“

- if open access is not provided (to some or all data)
  - must be justified
  - still have to apply FAIR principles

**New as of Work Program 2021/22:**
- have to provide access to validate the conclusions of scientific publications
- in case of a public emergency, have to provide access immediately under CC BY, CC0 or (if open access would be against legitimate interests) grant access under fair and reasonable conditions
FAIR principles
Proposal template Part B – Excellence – 1.2 Methodology

• Research data management and management of other research outputs (max. 1 page)
  • Data description
  • Management of data/other
    • F
    • A
    • I
    • R
  • Costs and person/team responsible
1. Making data findable
FAIR principles

2. Making data **accessible**
FAIR principles

3. Making data **interoperable**
FAIR principles

4. Making data re-usable
How to do
Some general advice

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Proposal template Part B – Implementation

• 3.1 Work plan and resources
  • Research data management
  • Deliverables: DMPs, Data, Other
  • (staff) resources
  • if applicable: risks
Proposal template Part B – Implementation

• 3.2 Capacity of participants and consortium as a whole
  • expertise in open science practices
  • access to critical infrastructure
  • Relevant OA publications, data, software with DOIs/PIDs

→ also under PART A – (Individual) Researchers involved
Templates & other help
Data management planning – key principles and steps

Spending a little time **upfront** can save a lot of time later on.
Start with **getting to know** about research data management and relevant policies.

Think about **what data** you will process and **who will use** your data: just you?
Your group? Other partners?
Open data publication?

Be realistic: strike a **balance** between doing too much and too little.
Use **help** by others (e.g. discipline-specific guidance, examples, support by service staff)

Write/adopt your plan.
There’s no single right way to do it; establish a system that **works for you**.
DMP-Template EU Horizon Europe:

1. Data summary
2. FAIR Data
   - Findable
   - Accessible
   - Interoperable
   - Re-usable
3. Other research outputs
4. Allocation of resources
5. Data security
6. Ethics
7. Other issues

DMP-Template Science Europe:

1. **Data description** and collection or re-use of existing data
2. **Documentation** and data quality
3. **Storage** and backup during the research process
4. **Legal and ethical** requirements
5. **Data sharing** and long-term **preservation**
6. **Responsibilities** and **resources**

Resources

• Horizon Europe Programme Guide
• https://librarycarpentry.org/Top-10-FAIR/
• https://www.forschungsdaten.info/praxis-kompakt/english-pages/
• Tool Argos: https://argos.openaire.eu/splash/
• Tool DMPonline: https://dmponline.dcc.ac.uk/
Service Center Research Data

SLUB
Wir führen Wissen.

+ (Grouping)*

TECHNISCHE UNIVERSITÄT DRESDEN

Service Center Research Data (*Grouping)*
Services for data management planning in Dresden

- Consulting (especially for collaborative projects)
- Review of text drafts (web form)
- Generation of text modules (web form)
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