argos

MIDE

CONNECT

MONITOR

mpi

@openaire_eu

DOUEZ

Jdē uado

annnesia

Data Management Plans – Part 1

Elli Papadopoulou ARGOS Product Manager Data Management Plans: what's the hype?







A document that outlines the necessary activities, means, and effort required to manage research data effectively

"Living document"	Project Deliverable
The content of the DMP is	Public funders increasingly
modified according to the data	require DMPs to be produced
developments until the project	and delivered by beneficiaries as
ends.	part of their grant obligations.



Why do we need DMPs?

- To better plan and track data activities: collection, storage, sharing, preservation.
- To comply with institutional, funder, and ethical requirements.
- To make data reproducible and increase their impact in society.





DMPs and RDM

RDM (Research Data Management) is the process of *organising, storing, preserving, and sharing* data in a research project. Data might be collected, generated or re-used (secondary) throughout research.

DMPs in RDM - First stage of RDM DMPs are drafted at the beginning of the project and implemented throughout its lifetime.

DMPs for RDM - Describe RDM activities DMPs outline and contain information about all RDM activities to be followed in the project.



https://www.openaire.eu/rdm-in-horizon-europeproposals



DMPs content



[Ref: NASA TOPS Open Science Curriculum, 2023]



[Ref: Open Science and Research Initiative, 2014]

6



FAIR Principles vs Open Access



[Ref: Wilkinson, M. et.al., 2016]



[Ref:<u>https://eoscpilot.eu/content/d32-eosc-open-science-monitor-specifications]</u>



What is a DMP Template?

A DMP Template is a prototype file with questions and guidance to support researchers with filling in the DMP with content.

-> Templates offer researchers a more structured way to provide input in their DMPs.

DMP Templates may be provided by funders and institutions that have RDM policies in place; Librarians, data stewards and support staff might also create DMP Templates to help researchers.



What are the key topics and questions?

- 1. Data description and collection or re-use of existing 🔘
 - a. How will new data be collected or produced and/c will existing data be re-used?
 - b. What data (for example the kinds, formats, and vo will be collected or produced?

2. Documentation and data quality

- a. What metadata and documentation (for examp methodology of data collection and way of orga data) will accompany data?
- b. What data quality control measures will be used?

a. How will data and metadata be stored and back during the research process?

3. Storage and backup during the research process

b. How will data security and protection of sensitive (taken care of during the research?

4. Legal and ethical requirements, codes of conduct

- a. If personal data are processed, how will complian legislation on personal data and on data security be er
- b. How will other legal issues, such as intellectual p rights and ownership, be managed? What legisla applicable?
- c. How will possible ethical issues be taken into accou codes of conduct followed?

- 5. Data sharing and long-term preservation
 - a. How and when will data be shared? Are there possible restrictions to data sharing or embargo reasons?
 - b. How will data for preservation be selected, and where will data be preserved long-term (for example a data repository or archive)?
 - c. What methods or software tools will be needed to access and use the data?
 - d. How will the application of a unique and persistent identifier (such as a Digital Object Identifier (DOI)) to each data set be ensured?

6. Data management responsibilities and resources

- a. Who (for example role, position, and institution) will be responsible for data management (i.e. the data steward)?
- b. What resources (for example financial and time) will be dedicated to data management and ensuring that data will be FAIR (Findable, Accessible, Interoperable, Re-usable)?

https://zenodo.org/records/4915862





Checklist

- **Clarity**: Questions should be straightforward and easy to understand.
- **Relevance**: Tailor questions to the specific context of the research project.
- **Compliance**: Ensure alignment with funding agency requirements and institutional policies.
- **Completeness**: Cover all aspects of data management, from creation to sharing and preservation.
- **Specificity**: Use precise language to avoid ambiguity.

What are Domain Data Protocols?

• Tailored to the context



Costing DMP activities

Plan data management of research activities following research data lifecycle steps

□Costing RDM

□ **Preparing** (DMP)

Data collection, eg database, formatting, transcription, etc

Data documentation, eg data description, metadata

□ Data storage and back-up

□ Data access and security, eg TTP, encryption

Data sharing & reuse, eg anonymization, copyright, cleaning, digitization

□ Overall, eg roles & responsibilities





https://www.openaire.eu/rdmcosts/



What is a good DMP?







Email elli.p@athenarc.gr

Twitter @elli_lib

ORCID 0000-0002-0893-8509



