



Data Management Plans (DMPs)

Introduction to Data Management Practices course

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What is a DMP?



A living document that will develop throughout the project

A document addressing requirements and practices for managing

the project's data, code and documentation

Outlines the data management strategies in a project, how the data is:

- collected
- documented
- organized
- preserved





The main parts of a DMP



1. Description of data

 What types of data will be created and/or collected, in terms of data format and amount/volume of data? Reuse and production of research data

2. Documentation

How will the material be documented and described, with associated metadata relating to structure, standards and format for descriptions of the content, collection method, etc.?

Documentation procedures and standards

3. Storage and backup

 How is data security, storage and backup of data and metadata safeguarded during the research process? Storage, security and backup



cont. The main parts of a DMP



4. Legal and ethical aspects

 How is data handling according to legal requirements safeguarded, e.g. in terms of handling of personal data, confidentiality and intellectual property rights? Legal & ethical and assurance procedures

5. Accessibility and long-term storage

- How, when and where will research data or information about data (i.e. metadata) be made accessible?
- In what way is long-term storage safeguarded, and by whom?

Future reuse and long-term access aspects

6. Responsibility and resources

- Who are the responsible persons for data management?
- What resources (costs, labour input or other) will be required for data management?

Responsibilities and resources required



Why write a DMP?



Well-managed research data allows for:

- verification of published research
- reduce the potential for scientific fraud
- enable re-use of existing data
- discourage unintentional redundancy in research
- serve as training resource for new researchers

Funding agencies requires a DMP:

- For transparency and openness: publicly funded research data must be discoverable, accessible, and reusable to the public
- Return on investment: well planned data maximizes the research potential of the data and provides greater returns on public investments and research



When write a DMP?



A DMP is a living document:

- Project planning: Outline the strategies to be able to estimate the resources needed, so this can be included in the proposal for funding.
- Project start: Complete with details e.g. about documentation, data quality measures, file and folder strategies, etc.
- Project end: Update with e.g. links to published data and details about archiving (what data and where).



How write a DMP?



DMP templates:

Provided by funding agencies, e.g. Swedish Research Council and Science Europe



- High-level questions, with no guidance on how to answer
- Use MS Word?

DMP tools:

- SciLifeLab DSW DMPOnline - The tool most universities have chosen to offer: Good guidance but typically generic and not Life Science specific
- Data Stewardship Wizard Provided by SciLifeLab; Gives Life Science specific guidance



Key Points



- A data management plan (DMP) is a document that describes the data produced in the course of a research project.
- A DMP allows for well-managed data, and funding agencies often requires a DMP for transparency and return on investment.
- ➤ A DMP is a living document, the first version is written during project planning, and is then updated as the project proceeds.
- There are standard templates available e.g. at funder agencies, and tools to assist when writing.