

Introduction to Research Data Management

Data management plans

<http://hdl.handle.net/1969.1/164780>

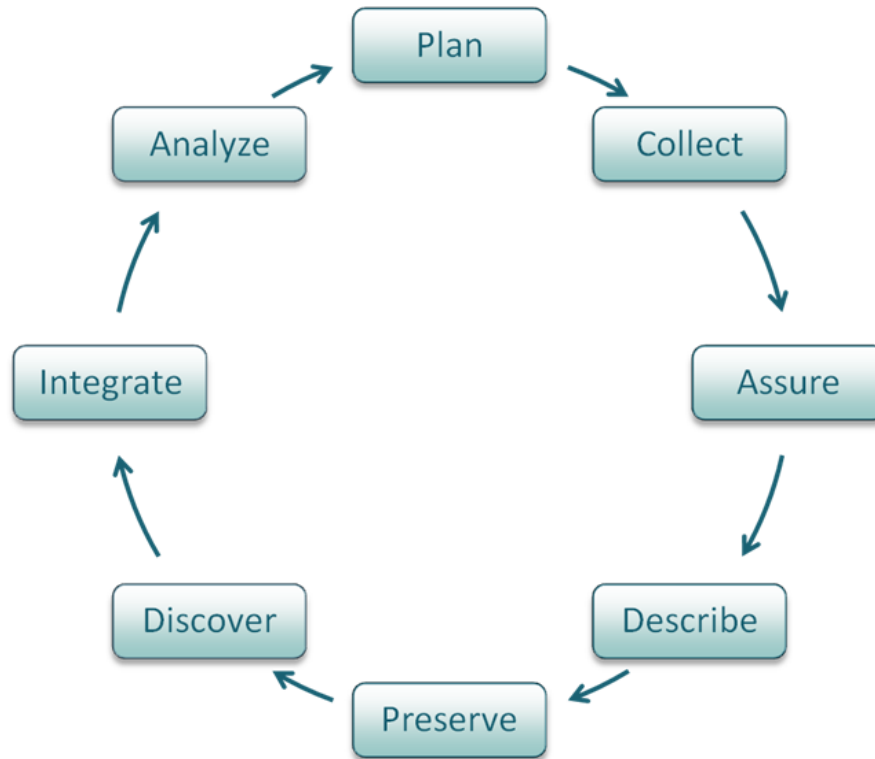
Workshops

1. Build an overview
2. Collect and document data
3. Store digital data
4. Work with data
5. Share and preserve data
- 6. Plan ahead**

Introduction

Focus on planning for effective data management in advance of research projects.

The goal is to have an overview of information to include in a plan.



Data management plans (DMPs)

Describe the data management activities for a research group, researcher, or research project.

- Structured documents created in advance of collecting data.
- Explain practices that will be followed over the course of the data lifecycle.

Two approaches

- **For funders:** Document written as part of a grant proposal.
- **For researchers:** Living documents describing overall data management practices.

For funders

- Limited in scope.
- Describe the expected practices for a particular research project.
- Approximately two pages of text written within a funder's template.

For researchers

A tool, allowing researchers to:

- Identify practices that improve research efficacy.
- Plan in advance, reducing later costs in time and effort.
- Easily share an overview with collaborators and stakeholders.
- Make incremental changes to meet the new needs.
- Speed up the grant application process over multiple cycles.

The audience

Developing a data management plan is a useful practice.

- Forces you to think through choices that will affect you, and others, in the future.
- Writing with the data lifecycle in mind, you'll respond to what a funder cares about and more.

What's in a plan?

- Data description.
- Standards used.
- Policies for access, sharing and re-use.
- Long-term storage and management.

Read a DMP

- Briefly read over the DMPs in the packet.
- Choose one to focus on for the next exercise.
- What strikes you about the plans you read?

Questions to answer in a DMP

- What data will you collect or create, and how?
- What types of documentation and metadata will you produce to support the data?
- How will ethical and legal issues be handled?
- How and where will you store data files?
- Which data will be retained and shared?
- How do you intend to archive and share your data and why that option?
- Who will act as the responsible steward for the data?
- What resources, including monetary, will be required?

Review a DMP

- Use the checklist to review how well your chosen example answers relevant questions?
- Is it thorough?
- What does it omit?

DMPTool

An online tool that walks you through writing a DMP for specific funding agencies.

It will ask you to answer the questions that a particular funder cares about.

<https://dmptool.org>

Conclusion

- Reviewed the purpose of data management plans.
- Identified questions to think about and answer in a data management plan.

References and resources

- DataONE. "Data management planning" [Website](<https://www.dataone.org/data-management-planning>)
- DCC. "Checklist for a data management plan" [PDF](http://www.dcc.ac.uk/sites/default/files/documents/resource/DMP/DMP_Checklist_2013.pdf)
- ICPSR. "Framework for creating a data management plan" [Website](<http://www.icpsr.umich.edu/icpsrweb/content/datamanagement/dmp/framework.html>)