

Data management plans

Data steward network meeting

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DMP requirements at WUR

https://www.wur.nl/en/Value-Creation_Cooperation/WDCC/Data-Management-WDCC/Planning/Institutional-requirements.htm



Home > > WDCC > Data Management > Planning

Not only PhD students need a DMP, also chair groups need one!

Institutional requirements

Wageningen Graduate Schools (WGS) requires that PhD candidates create a Data Management Plan for their research. Each graduate school has slightly different requirements on how to submit the DMP with other documents.

Once PhD candidates have created their DMP, it becomes an appendix to their research proposal and may be reviewed by Wageningen Graduate Schools.



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- > Back to Data Management
- > Planning your research
- > Doing your research
- > Finishing your research

Data management plan

Not only WUR requires a data management plan, also funders.

- NWO
- ZonMw
- Horizon2020
- ERC
- ...

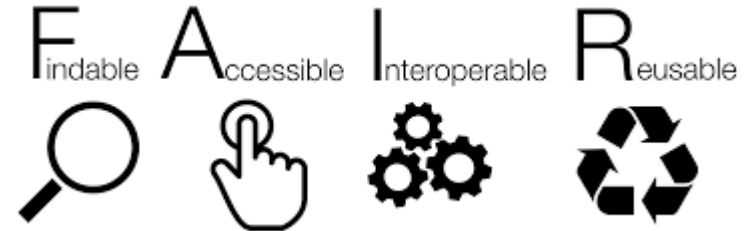


Although they cover essentially the same subjects, they may vary in detail.

FAIR data

What do all funders require?

→ Data is as **FAIR** as possible



F = **findable** (e.g., archived, has a unique identifier)

A = **accessible** (e.g., Open Access or via authentication)

I = **interoperable** (e.g., can easily be combined with other datasets by computers or humans)

R = **reusable** (e.g., ready to be used for future research)

WUR template

https://www.wur.nl/en/Value-Creation-Cooperation/WDCC/Data-Management-WDCC/Planning/DMP-formats.htm

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Research & Results

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Home Value Creation & Cooperation WDCC Data Management Planning your research DMP formats

Data Management Plan formats

Data management planning is a matter of good research practice. At Wageningen University & Research PhD candidates and Chair Groups are required to have a Data Management Plan.

A Data Management Plan (DMP) is a tool that makes you carefully think about your data collection process. Investing time in thinking about managing your research data at the start of your project helps to you to

- keep track of your research progress more efficiently;
- easily find and understand the data you created earlier;
- prepare your research data for future use (e.g., data publication, verification purposes or reuse of your data by others);
- comply with ethical guidelines, and institutional, funder and journal requirements

Wageningen University & Research has developed a format for an individual plan.

[Download it here](#)

To give you an impression of a completed DMP go to the example DMPs



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- > Back to Data management
- > Planning your research
- > Doing your research
- > Finishing your research
- > Data policy at WUR
- > Back to Wageningen Data Competence Center

Information sheet:

- [Tips for writing a Data Management Plan \(DMP\)](#)

Section 1: context

1. Describe the organizational context [\(info\)](#)

Name	
Date	
Chair group	
Graduate school	
Supervisor/ (co-)promotors	
Start date of project	
File name of this DMP	

Section 2: description

2. Give a short description of your research project [\(info\)](#)

Title	
Abstract	

Section 3: data management roles

3. Define data management roles [\(info\)](#)

Change/add roles
over time

Roles	
Who is collecting the data?	
Who is analysing the data?	List this as specific as possible
<u>Other</u> (Is there a person in the research group with a specific responsibility for data management? Do other persons contribute, for example by writing code?)	It is important to keep track of who worked on the data at what time; for example by keeping an Electronic Lab Notebook
What is the role of your supervisor ?	

Section 4: type and size of data, software

4. Give an overview of expected types of research data [\(info\)](#), software choices [\(info\)](#), and data size & growth [\(info\)](#)

Data stage	Specification of type of research data	Software choice	Data size/ growth
Raw data			
Processed data			
Models/code			
Other?			

Section 4: example

These are closed formats.
Preferred software/output is
open format

Data stage	Specification of type of research data	Software choice	Data size/growth
Raw data	Video files (.mp4), interviews .txt files	Media recorder, MS Word	Few GBs 20-40 GB
Processed data	Numerical files, statistical analyses .csv files	Excel, SPSS R	Few GBs 10-15 GB
Models/code	-		
Other?	-		

Give an estimate of the size

Section 5: short-term storage

5. Short-term storage solutions* [\(info\)](#)

Describe where the data will be stored physically and how the back-up is organised.

Data stage	Storage location	Backup procedures (<u>storage</u> medium and location/ how often?)
Raw data		
Processed data		
Models/code		
Other?		

Section 5: example

Vulnerable to theft, loss, breaking

Not the same location!

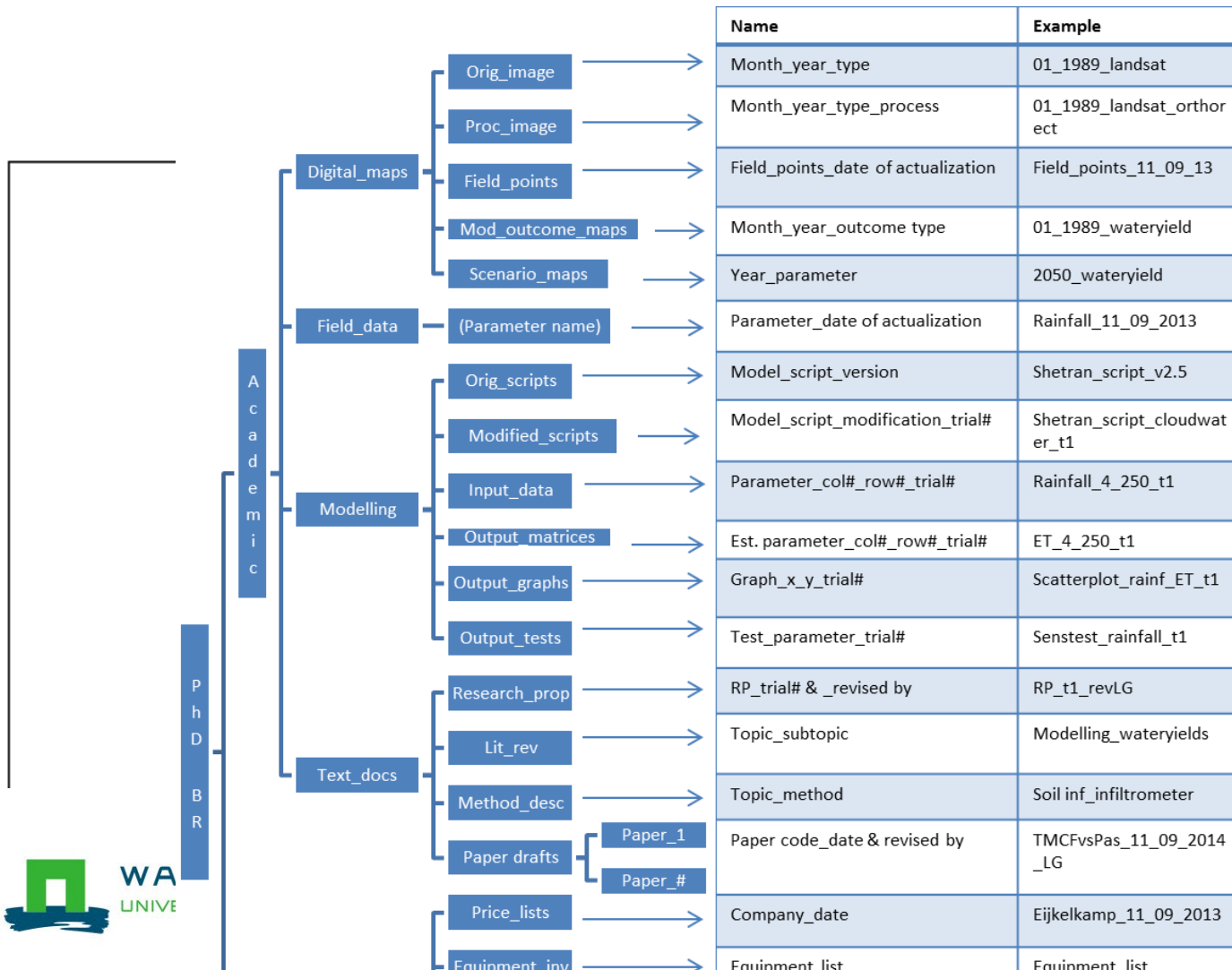
Data stage	Storage location	Backup procedures (<u>storage medium and location</u> / how often?)
Raw data	Laptop	Laptop & external hard drive / asap
Processed data	Network drive W-drive	Weekly
Models/code		
Other?		

e.g. raw on lab computer,
processed on W-drive

W-drive is backed up

Section 6: structure of data

6. Structuring your data and information (info)



Section 7: documentation and metadata

7. Documentation and metadata* (info)

Describe how you are going to document your data collection process, what the resulting data files comprise and how they will be processed further. Think about documenting the:

1. content (*what does your dataset contain?*)
2. context (*who, what, why, where and how will the data be collected and analysed?*)
3. process (*are there specific processes and does it make sense to organise your notes according to these processes?*)

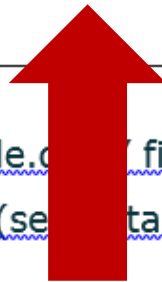
Section 7: example

Think of:

- README.txt (NOT .docx!);
- data dictionaries to explain variables;
- adding metadata;
- (electronic) notebooks for research notes as well as roles

There will be a 'Readme directory file.docx' file in which all the specifications of the project/course (etc.) will be stored (see data structure above).

This file will contain the location of all relevant files, their specifications and their relations.



Section 8: sharing, ownership, privacy

8. Sharing, ownership and privacy* [\(info\)](#)

Sharing, ownership and privacy	(With) <u>who(m)</u> , what and how?
Data sharing <ul style="list-style-type: none">- Do you expect that others may be interested in re-using your data? Do you have plans to share your data with these parties?- How are you going to make sure your datafiles will be accessible once you leave the department? Who will take care of your data?	
Data ownership <ul style="list-style-type: none">- Any <u>fundere</u> requirements to share your data, or to impose an embargo?- Are there agreements on how the data <u>will be used and shared within your group or with other parties involved in this research?</u> (outside your group or outside Wageningen University & Research)	
Privacy <ul style="list-style-type: none">- Are there privacy or security issues, and if there are, how are you dealing with them?	

= sharing during research and afterwards within WUR; not through a repository (9)

avoid conflicts with e.g. third parties

encryption, access, anonymisation...

Section 9: long term storage

9. Long-term storage* [\(info\)](#)

Which part of your research data has value for long-term storage? Do you intend to preserve these data for the long term?

Yes or no ?	Argumentation
	<ul style="list-style-type: none">- 10 years retention obliged- Most data (/parts) are of value to others

Which data archive do you intend to use?

<p>I intend to archive ... data in ...</p> <ul style="list-style-type: none">- Browse re3data.org- Repositories in your discipline?- WUR archiving support: DANS / 4TU

Section 9: example

9. Long-term storage* [\(info\)](#)

Which part of your research data has value for long-term storage? Do you intend to preserve these data for the long term?

ALL data, or part of the data, and which part then?

Yes or no ?	Argumentation
Yes	Basic requirement of 10 years storage <u>of all data and documentation.</u>

Not a data archive!

Which data archive do you intend to use?

I intend to archive all data on external hard drives.

Data Management Support at WUR

To get answers/support:

- data@wur.nl (Data Management Support and [WDCC](#))
- servicedesk.it@wur.nl (storage and security)

To stay up to date:

Intranet group
[Data@WUR](#)

For information:
The [Data Management](#)
website

