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## Plan Overview

*A Data Management Plan created using DMPonline*

**Title:** DMP\_example\_FictitiousProject\_v01

**Creator:** WUR RDM support

**Affiliation:** Wageningen University and Research (Netherlands)

**Template:** Data Management Plan | Wageningen University and Research

### Project abstract:

This entire study description is fake and made up within 5 minutes, take the study aims with a grain of salt. Health and welfare in pigs is an increasingly important subject within Dutch society. Although the subject of health and welfare in commercial pig husbandry has been researched on various occasions, results of these studies are not widely applied. We aim to study the effects of several housing (barren housing vs various types of enriched housing) and dietary conditions (feeding levels, and dietary protein and sugar contents) on the health and welfare of growing pigs (assessed by behaviour, lesions, antibody titers, hormones, body weight). Additionally we aim to assess the perception of farmers on pig health and welfare, what they consider poor health and welfare, and what they would take away from the results of these studies (through recorded interviews and online surveys).

**ID:** 105553

**Start date:** 07-07-2022

**End date:** 07-07-2026

**Last modified:** 17-08-2022

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# DMP\_example\_FictitiousProject\_v01

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## A. Describe the research project

### 1. Describe the organisational context of your research project.

Name researcher	Danny de Koning-van Nieuwamerongen
DMP version (or date last modified)	20220816
Chair group/Business unit	WUR Library
Graduate school (WU only)	RDMsupport_is_awesome
Supervisor/(co-)promotor(s) (WU only)	Important Person
Start date of project	20220707
End date of project	20260707
Project number	123456789
Funding body	WUR Library

### 2. Give a short description of your research project.

Title	Effects of housing and dietary conditions on health and welfare in growing pigs and the perception of farmers.
Summary	This entire study description is fake and made up within 5 minutes, take the study aims with a grain of salt. Health and welfare in pigs is an increasingly important subject within Dutch society. Although the subject of health and welfare in commercial pig husbandry has been researched on various occasions, results of these studies are not widely applied. We aim to study the effects of several housing (barren housing vs various types of enriched housing) and dietary conditions (feeding levels, and dietary protein and sugar contents) on the health and welfare of growing pigs (assessed by behaviour, lesions, antibody titers, hormones, body weight). Additionally we aim to assess the perception of farmers on pig health and welfare, what they consider poor health and welfare, and what they would take away from the results of these studies (through recorded interviews and online surveys).

### 3. List the individual(s) responsible for the following data management tasks.

Data collection	Aulus Agerius (Postdoc) John Doe (research assistant) Jane Doe (research assistant) Jaynie Everywoman (lab assistant) Ray Public (PhD candidate)
Data quality	Aulus Agerius (Postdoc) Ray Public (PhD candidate)
Storage and backup	Aulus Agerius (Postdoc) Ray Public (PhD candidate)
Data archiving/publishing	Aulus Agerius (Postdoc) Ray Public (PhD candidate)
Data stewardship/support	Petey Awesomedatasteward (chair-group datasteward). Linda Awesomecoordinatingdatasteward (department datasteward coordinator). WUR Library RDM support (data@wur.nl (WUR data support)).

### 4. Name of data management support staff consulted during the preparation of this plan and date of consultation.

Dr ir Danny de Koning-van Nieuwamerongen  
WUR Library - Data Management Support  
data@wur.nl  
Date: 20220630

## **B. Describe the data to be collected, software used, file formats and data size**

### **5. Will you re-use existing data for this project?**

- Yes. Please specify below which data (e.g. DOI/url) and the terms of use (e.g. licence).

We will be using pre-existing unpublished data from our previous study focusing on health and welfare in commercial pig husbandry entitled Assessing Commercial Pig Husbandry Health and Helfare (adding DOI + licence when published). The data from that study consist of:

- Lesion scores in pigs related to housing conditions.
- Video recording of pigs related to housing conditions.

Additionally, we will be using data published openly with 4TU.ResearchData from researchers at Utrecht University Faculty of Veterinary medicine (<https://www.doi.org/12fakedoi3456/notreal> ; CC-BY license) on behaviour in relation to dietary conditions.

### **6. Will new data be produced?**

- Yes

Because not all required data is readily at hand, we will be producing new data.

- 12 hour video recordings of pigs twice a week for 20 weeks.
- Behavioural observations (scan sampling) scored from the video recordings.
- Behavioural observation scored live with scan sampling 2 days a week for 20 weeks.
- Body lesion scoring once a week for 20 weeks.
- Blood samples collected at 10, 15, and 20 wk of age, and analysed for antibody titers and serotonin.
- Body weight of the animals every 2 weeks.
- Interview recordings with farmers on perception of results in relation to pig health and welfare (will be transcribed).
- Surveys send to farmers with questions on societal, government, and industry perceptions on health and welfare.
- Processing and analysis scripts.
- Figures to visualize results.
- Processed datasets (we will keep raw and processed data separated to ensure that the data can always be traced back to its original form).

### **7. When producing new data, describe the data you expect in terms of type, software and format.**

Please scroll to the right in [dmp.wur.nl](https://dmp.wur.nl) to view the entire table.  
(Text continues below the table.)

Subject	Type	Software	Format	Nr files	Size of each file	Max size
Existing data lesion scores	Tabular	Excel	.csv	1	50 MB	50 MB
Existing data behavioural video recordings	Video	N/A	.avi	20	5-10 GB	200 GB
Video recordings	Video	N/A	.avi	50-100	5-10 GB	1 TB
Scan sampling video	Tabular	Noldus	.txt	1-10	1-10 MB	100 MB
Scan Sampling live	Tabular	N/A	paper	40-80	N/A	N/A
Scan Sampling transcribed	Tabular	Excel	.xlsx, .csv	2	1-10 MB	20 MB
Body Lesions	Tabular	N/A	paper	4-80	N/A	N/A
Body Lesions transcribed	Tabular	Excel	.xlsx, .csv	2	1-10 MB	20 MB
Antibody titers	Tabular	ELISA reader	.csv	3	1-10 MB	30 MB
Antibody titers	Image (optical density)	ELISA reader	.tiff	20	5-15 MB	300 MB
Serotonin levels	Tabular	Fluorescence reader	.txt	1-10	1-5 MB	50 MB
Body weight	Tabular	N/A	paper	1-10	N/A	N/A
Body weight transcribed	Tabular	Excel	.xlsx, .csv	2	1-5 MB	10 MB
Interview recordings	Audio	N/A	.mp4	20	100-200 MB	4 GB
Interview transcriptions	Text	Word	.docx, .txt	40	1 - 5 MB	200 MB
Survey	Tabular	LimeSurvey	.csv	1	1-5 MB	5 MB
Processed data	Tabular	Excel	.xlsx, .csv	5-10	1-5 MB	50 MB
Processing and analysis scripts	Textual	R	.R	5-10	0-1 MB	10 MB
Figures	Images	R (exports)	.jpg	5-10	1-10 MB	100 MB

During working with the data we will make use of non-preferred formats and software required to facilitate working on the data (e.g., Excel to work with tabular data in .xlsx format). When archiving the data and / or publishing the data, all file formats will be converted to their preferred format equivalent to meet the FAIR principles requirements. We will consult <https://dans.knaw.nl/en/file-formats/> for the equivalent preferred formats. When conversion is not feasible (even with a simple copy paste), we will make sure that the contents of the files are thoroughly described.

## 8. Estimate how much data storage you require in total.

- >1000 GB

1000 - 1500 GB storage is required at max (summation of the max column of question 7).

## C. Storage of data and data documentation during research

### 9. Where will the data and accompanying documentation/metadata (see section E.) be stored and backed up during the research project?

- W:drive (WUR network drive)
- Other. Please specify location and back-up frequency below.

We will store all data on the W-drive (Massive File Storage Disaster Recovery; see description at <https://library.wur.nl/storagefinder/>). This storage media is managed by WUR (datacenters at WUR) in which data is automatically backed-up, has secure access management (only accessible to specific added WUR credentials), folder access can be set per folder, integrity checks are performed, has disaster recovery (when one datacenter fails), and is encrypted at rest.

When data needs to be shared with project members at UU, the to be shared data will be placed within Yoda (see Yoda description at <https://library.wur.nl/storagefinder/>). We will be using the Yoda data management platform hosted by SURF which is in accordance with the WUR policies and ensures that data is automatically backed-up, has secure access management (only accessible to people specifically added to a folder), integrity checks are performed, has disaster recovery (when one datacenter fails), and is encrypted at

rest. In addition, the data will be placed in the Yoda Vault at key moments within the research (at least when RAW data is collected, data is fully analyzed, and at the end of the project). Data in the vault will permanently be available and represents a secure copy of the data at that point in time.

We will be using Git@WUR (see description of Git@WUR at <https://library.wur.nl/storagefinder/>) to share our processing and analysis scripts with project members to work together on these scripts. This storage media is managed by WUR (datacenters at WUR) in which data is automatically backed-up, has secure access management (only accessible to WUR credentials or those given specific access), and has disaster recovery (when one datacenter fails).

## D. Structuring your data and information

### 10. Give a representation of the folder structure you intend to use, or the link.

(Text continues below the representation)

HeWa = health and welfare

- HeWa\_prj123456
  - HeWa\_raw\_data
    - HeWa\_video\_observations
    - HeWa\_scansampling
    - HeWa\_interview\_recordings
    - HeWA\_interview\_transcriptions
    - HeWa\_bodyweight
    - HeWa\_surveys
    - HeWa\_antibodies
    - HeWa\_serotonin
    - HeWA\_lesions
  - HeWA\_reused\_data
    - HeWa\_UU\_videorecordings
    - HeWa\_UU\_lesions
  - HeWa\_scripts
    - HeWa\_processing\_scripts
    - HeWa\_analysis\_scripts
  - HeWa\_processed\_data
    - HeWa\_behavioural
    - HeWa\_laboratory
    - HeWa\_interviews
    - HeWA\_surveys
    - HeWa\_bodyweight
    - HeWa\_lesions
  - HeWa\_results
    - HeWa\_stat\_output
    - HeWa\_figures
    - HeWa\_tables

Further sub-folders may be created when desirable to retain a structural overview. Folder names or the structure may be slightly modified if the project requires this for better practicality. The project abbreviation is mentioned within the folder name so that the folder can immediately be identified when the folder is misplaced.

### 11. Describe the file naming conventions you intend to use.

We will use a pre-defined structure where feasible:

[projectname]\_[subject\_specifics]\_[date]\_[version].[extension]

The date will be supplied in the format `yyyymmdd` to ensure proper sorting on date (i.e., 20220707) and conform the international standard for using dates.

The version numbering will be supplied in a 'v' followed by 2 numbers (even below version 10), the first a so-called 'leading zero', to

ensure proper sorting on version (i.e. v01, v02, v09, v10, v11).

Example:

HeWa\_ELISA\_15wk\_pig\_20220707\_v01.csv

When more elements are required in file names, abbreviations will be used to keep the file name at a suggested length of 30-35 characters to limit the length. When abbreviations are applied, these will be explained in the readme file (see question 13).

For files that are generated automatically by machines, such as for video recordings, the filenames will be renamed using batch renaming software or cmd prompt (Windows) script where possible. When not possible, filenames are appropriately documented (as done with all filenames).

Within file naming we take into account that the filename needs an indication of where it is stored so that no question remains where the file should be located once it is accidentally misplaced. For example, when multiple projects exist all using some form of behavioural video recordings and a file is accidentally misplaced, it should be immediately visible that the file is at a wrong location. Example: pig\_behaviour\_day1.avi and pig\_behaviour\_day2.avi versus projectA\_pig\_behaviour\_day1.avi and projectB\_pig\_behaviour\_day1.avi (in the latter part it is immediately visible to which project one of the files belongs to).

## **12. Describe the file versioning system you intend to use.**

Raw files are designated with the word RAW at the end of the filename. Any other files that result from modifications, merging, processing of the raw files, will be designated with the letter v followed by 2 numbers which increase every time a new version of the data results from the modifications. Additionally, the date will be added for minor modifications which will be useful for modifications that do not elicit a new major version. Example:

HeWa\_ELISA\_wk15\_20220707\_RAW  
HeWa\_ELISA\_allweeks\_20221212\_v01  
HeWa\_ELISA\_allweeks\_20221220\_v01  
HeWa\_ELISA\_allweeks\_20230115\_v02

For scripts and code within Git@WUR, versioning is an integral part of the system. Files with the exact same name can be compared between different branches and commits (updates to files made). It is therefore essential in Git to not change filenames between modifications as you will lose the inherent compare and version check. When files will be published, the files will be exported and added to the data to be published, appended with the version v01 if it is the first publication, and with reference to the specific master branch commit id.

## **E. Data documentation and metadata**

### **13. Describe what data documentation and metadata will accompany the data.**

In order to produce FAIR data (data that can be re-used by others and be fully understood), plenty of documentation needs to be provided for all files collected, stored, archived, and published.

The metadata (at least data set title, creator(s) + affiliation (s), contributor(s) + affiliation(s), short description of the data set, keywords, licence etc.) will be documented through the use of either the datacite metadata scheme <https://schema.datacite.org/meta/kernel-4.4/> or Dublin Core <https://www.dublincore.org/specifications/dublin-core/dces/> (see question 26).

As recommended by <https://www.wur.eu/rdm>, a readme.txt file will be supplemented to the archived and / or published data files which will include information on the:

- folder structure.
- files present and their relations.
- purpose of each files.
- file formats present.
- purpose of the research.
- explanation of all used abbreviations within file and folder names as well as within files.
- an explanation of all columns used (if any).
- description/explanation of measurement units.
- category descriptions when results are categorized.
- software requirements (including name, version, company).
- machine requirements (including name, version, company).

- steps undertaken in processing data (going beyond just what is present in materials and methods of a journal article which often does not go into detail of what was done).
- and any other information required to understand and reproduce the data within the supplied folders.

In addition, a license will be provided indicating the term of use / license on the data (if any is required / available / possible). Finally, where required, ample description will be given within processing files (for example within Excel files) or scripts to indicate to the reader what steps have been undertaken (or the same description will be given in other accompanying files).

We intend to use a CC-BY license as described at <https://creativecommons.org/licenses/> .

When practically more desired or feasible, csv files that explain column names or the use of various other files as codebooks or descriptions will be supplied within used files.

#### **14. Describe what data quality controls will be used.**

We will ensure that the same type of data is referred to similarly between files (we will, for example, not allow column heading 'subjectnr' in one file and 'animalnr' in another file when they describe the same data; the same goes for coding observations). This ensures uniformity across data files within our research. If possible, we will use the same vocabulary from discipline specific metadata standards (to be decided).

In accordance with standard research practices, we will collect data according to pre-described validated protocols. Where such protocols do not exist, we will perform pilots to validate the collection methods.

In accordance with standard statistical analysis practices, we will check the distribution of data (raw and especially the residuals after statistical analyses) to determine validity of statistical models, outliers, or any other inconsistencies within the data (for example the wrong coding or missing values).

Laboratory analysts and research assistants will assist in checking the validity and quality of collected data where appropriate. This may include re-doing a random sample of observations to determine agreement with the original observations, or perform exploratory (descriptive) statistics. For laboratory assessments, there always is a reference control present on each assay, which helps determine quality of the data.

## **F. Working with sensitive data (personal data, ethics), ownership, sharing and access**

### **15. Are there reasons (privacy, ethics, contractual agreement, commercial interests, public security, IP rights) to restrict access to the data or limit which data will be made publicly available?**

- Yes, please describe the reasons below.

We will be performing interviews with farmers. Initially these will be recorded on audio in which the voice and name of the farmers are present in addition to any other information they share on their farm, views, and living situations. Hence, personal data is directly collected.

We will be performing online surveys using Qualtrics which are performed by sending surveys to the farmer's email address. Options to log any IP address will be turned off for these surveys. The surveys will include questions on the farm they work in and any other living conditions. Hence, personal data is directly collected.

We will be recording video within the stables of our experimental housing unit. Although the subject of the recordings are the animals, humans will also be visible in these recordings (animal caretakers, PhD candidates, MSc and BSc students, research assistants, other staff). Hence, personal data is indirectly collected. Even though we do not intend to cause severe harm to animal subjects in the experiments and keep them according to commercial pig husbandry standards, doing research with animals and commercial husbandry can be sensitive to parts of society. It is therefore important to treat these video recordings accordingly.

### **16. Will you process and/or store personal data during your research project?**

- Yes. Please, specify below which measures you will take to ensure data protection and safeguard the privacy of the participants in your project.

By default, all projects at WUR that collect personal data will be screened on potential risks (by checking a checkbox on personal data

usage when registering a project in MyProjects at WUR). The screening process is performed by the application SmartPIA and consists of a questionnaire that will be filled in by the project leader. Based on the outcome of this screening, a Data Protection Impact Assessment (DPIA) may be carried out along with the privacy officer of our department as mentioned on <https://intranet.wur.nl/umbraco/en/about-wur/policy-regulations/privacy-personal-data/> at 'who can I approach if I have questions about privacy?'. This impact assessment describes the type of data collected, the storage media and its characteristics, the risks and impact of data loss / breach / theft, and the measures undertaken to mitigate the risks.

In compliance with the General Data Protection Regulation (GDPR), participants will sign an informed consent form checked by the privacy officer of the science group before data collection commences, which states amongst others that we:

- provide information on what data is exactly collected.
- provide information on the intent to share and / or publish the data and the conditions for sharing.
- provide transparency about which information we will make available.
- provide information on the storage and archival period.
- provide transparency in the methods applied to reduce the risks of identification.
- the right to withdraw consent and collected data.

Where possible, we will delete any personal data that is not further required for the research. In addition, where possible, we will pseudonymize the data (currently under investigation if possible). Anonymization will be investigated, but as this is often difficult to attain, we doubt that this will yield non-identifying data for individual files. Only aggregated personal data will be made publicly available in which single point data is not available and individuals cannot be identified. If required, single-point data (for example a single transcribed interview) will be made openly available only when the privacy officer is satisfied about anonymity. Access to these data is carefully monitored by the project leader, Postdoc, and the PhD candidate. Only the project leader (primary contact), Postdoc (secondary contact when primary is unavailable), and chair-group holder (when others are not available) will be allowed to grant access when requested. Access will be removed when not required anymore. These types of data will not be made openly available in its raw form (pseudonymization and anonymization processes will be investigated).

Video recordings will only be made available for the parts in which humans are not visible. When humans are visible at a specific time section in which data happens to be collected, they will be blurred from the videos. As common in animal commercial husbandry measurements, sounds (incl. voices) are not recorded (there is no microphone alongside the camera's).

#### **17. Is this project registered in SmartPIA?**

- Yes.

As all projects at WUR need to be registered in MyProjects to release the funds of the project, we will check the checkbox on whether personal data is involved in the project. This will then send a notification to the SmartPIA application, which in turn sends a questionnaire to the project leader with some more in depth questions on the type of data. This questionnaire will then calculate a data classification score and when sufficiently high, the privacy officer of the science group will be notified and create a DPIA along with the project leader and project members.

#### **18. Are there other ethical issues that need to be taken into account?**

- Yes. Please, explain.

The current societal impact and views of commercial husbandry of livestock can reach some tense levels within The Netherlands. The current research project collects data on the views of farmers on various aspects (society, husbandry, government). These types of data may create a larger polarity between different parties. Hence, our handling, sharing, and publishing of data may contain ethical properties. These will be taken into account with the steps previously described. Any publication of results will thoroughly be discussed within our project on proper handling and ethics of the publication.

However, as we are not performing research on, for example, endangered species and their last final location for poachers to find them, we do not expect limitation in publishing results.

The current research does not need to pass a social ethical board. Any experiments on animals have passed the animal experimentation ethics committee.

#### **19. Who has ownership and controls access over the data?**

All research data collected at WUR and all data files produced are under WUR ownership (the employer has ownership of the data unless otherwise stipulated). The reused data published from UU colleagues remain under UU ownership but are freely usable and openly accessible.



Any other regulations made are stipulated within the consortium agreement and signed between UU and WUR project members respecting UU and WUR policies.

The responsibility of granting access to all data (including sensitive / personal data) remains at WUR for the data collected within this project and of which ownership lies with WUR (specifically with the chair group/business unit involved) as previously specified (see question 16).

## **20. Will there be any intellectual property (IP) rights associated with the data?**

- No

It is not expected that there will be any IP rights resulting from this study. If there are any rights that may result from this study, they are stipulated within the consortium agreement.

## **G. Data archiving and publishing**

### **21. Do you have selection criteria, which allow you to determine which part of the data should be preserved once the project has ended?**

- Yes. Please, elaborate below.

Only the data that underlies the journal publications, reports, and the dissertation of the PhD candidate will be preserved. At the end of the project we will discuss with our department whether the data collected but not underlying a publication needs to be archived as well (for possible future publications). In any case, we will preserve all raw files, processed files, transcripts, scripts, and analysis output belonging to the aforementioned publication types (see the folder structure previously described). Along with the archived data, plenty of documentation will be provided as described before. Personal data from participants will be destroyed after the retention period mentioned in the informed consent form.

Any code or data within Git@Wur will be exported and archived along with the data files.

Any other publicly available data (such as in reference articles or in journal articles) and the reused data (the data publication of UU as described in point 5) within our project will not be stored again as these are openly available. We will only store the references (persistent identifiers) to these materials and will clearly be stated in the accompanied documentation (readme files).

### **22. What data will be archived internally (e.g. WUR network drive) for a minimum of 10 years?**

- All (raw) data produced during the project will be archived internally.
- Other. Please specify below.

Data that cannot be made public, such as sensitive and personal data, will be archived in the W-drive of WUR. Along with that archived data, a reference to the data publication (the data that can be made public, see next question) will be present (to avoid duplicate storage).

### **23. What data will be published and made available for re-use via a data repository?**

- Other. Please, specify below.

All non-sensitive and non-personal data belonging to a journal publication will be made publicly available using the below specified repository (this includes the raw data including video observations when non-personal data is present). Data present on Git@Wur will be exported and added to the data publication (as it contains processing and analysis scripts).

### **24. When will the data be available for re-use, and for how long will the data be available?**

- Data available as soon as the article is published.
- Data available after completion of the project (with embargo).

Data underlying a journal publication will be made available as soon as the journal publication is published and the data does not underlie another publication still needing to be published.

Any data that does not fall under the aforementioned category, but underlies the PhD thesis and will not be used for journal publications, will be published after the promotion of the PhD candidate.

## **25. Which data repository do you intend to use to make the data findable and accessible?**

We will either use 4TU.ResearchData, Zenodo, or Yoda@WUR. The final solution will be discussed within the project (and depends on whether the publishing function of Yoda is available).

## **26. Which metadata standard will be used to describe the data during archiving / depositing in a data repository?**

The minimum metadata standard used will be the DataCite metadata scheme 4.x as described at <https://schema.datacite.org/meta/kernel-4.4/>, which in turn is used by Yoda@WUR. The exact metadata terms used of the metadata schema is visible within Yoda or an example can be seen at <https://www.uu.nl/en/research/yoda/guide-to-yoda/i-am-using-yoda/documenting-your-data>.

## **27. Which licence/terms of use will be applied to the data?**

We will apply the CC-BY license (<https://creativecommons.org/licenses/>) to the data that can be published.

Sensitive and personal data will not be shared (closed access), or will be available for restricted access under a custom license (as specified to participants in the informed consent). The custom license will consist of a legal Data Transfer Agreement (DTA) that stipulates what can and cannot be done by the requesting party with the data. We have not decided yet to make use of a DTA as arranging long term access to restricted data relies on long-term involvement and availability of project members long after the project is finished (we may not be able to guarantee continued actively controlled and managed access to requested data as people may leave WUR and not have access to WUR storage anymore).

## **28. If analysis software is generated in this project, describe your publishing strategy, below.**

We are not producing any analysis software. Any processing and analysis scripts on Git@Wur will be exported and included in the data publication through the aforementioned repositories.

## **H. Data management costs**

### **29. What resources (in time and/or money) will be dedicated to data management and ensuring that data is reusable?**

The creation of FAIR data requires quite some extensive time. The PhD candidate will spend 10 - 20% of the time correctly handling and managing the data. The Postdoc will spend approximately 10% on data management.

Currently, no financial costs are required to store the data during the project as that is covered by the chair-group. Publication of data may need extra funding as over 1 TB of data is available (for a large part the video recordings) needing 10 year storage. Yoda costs 270 euro / TB / Year which is not covered by WUR by default. We will discuss financial contribution within the project for publication of the data.

Any costs for archival on W drive of WUR may be minimal as long term storage can possibly be transferred to tape costing 12 euro / TB / year and will be covered by our chair-group (once tape storage becomes available within WUR). If tape storage is not available, the W-drive Massive File Storage Disaster Recovery will be used for 10 years and is also covered by our chair group.

### **30. If there are additional costs related to preparing the data for reuse, how will these costs be covered?**

We will request extra funding from our funder to cover the data publication costs. In addition, our chair-group will cover costs that are not fully met by the funders.

