

# **Adapt your Data Management Plan**

A list of Data Management Questions based on the Expert Tour Guide on Data Management



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## **Overview**

## Title of the project/study

## Date of this plan

#### Description of the project

- What is the nature of the project?
- What is the research question?
- What is the project time line?

#### Origin of Data

- What kind of data will be used during the project?
- If you are reusing existing data: What is the scope, volume and format? How are different data sources integrated?
- If you are collecting new data can you clarify why this is necessary?

## Principal researchers

- Who are the main researchers involved?
- What are their contact details?

#### Collaborating researchers (if applicable)

• What are their contact details and their roles in the project?

#### Funder (if applicable)

- If funding is granted, what is the reference number of the funding granted?
- What is the project's title in the funding contract?

#### Data producer

• Which organisation has the administrative responsibility for the data?

## Project data contact

• Who can be contacted about the project during and after it has finished?

#### Data owner(s)

- Which organisation(s) own(s) the data?
- If several organisations are involved, which organisation owns what data?

#### Roles

- Who is responsible for updating the DMP and making sure that it's followed?
- Do project participants have any specific roles?
- What is the project time line?

#### Costs and Resources

- Are there costs you need to consider to buy specific software or hardware?
- Are there costs you need to consider for storage and backup?
- Are potential expenses and resources for (preparing the data for) archiving covered?
- What resources will be dedicated to data management ensuring that data will be FAIR?





# Organising and documenting your data

#### Data collection

- How will the data be collected?
- Is specific software or hardware or staff required?
- Who will be responsible for the data collection?
- During which period will the data be collected?
- Where will the data be collected?

## Data organisation

- How will you organise your data?
- Will the data be organised in simple files or more complex databases?
- How will the data quality during the project be ensured?
- If data consists of many different file types (e.g. videos, text, photos), is it possible to structure the data in a logical way?

## Data type and size

- What type(s) of data will be collected?
- What is the scope, quantity and format of the material?
- After the project: What is the total amount of data collected (in MB/GB)?

#### File format

- In what format will your data be?
- Does the format change from the original to the processed/final data?
- Will your (final) data be available in an open format?

#### Folder structure and names

• How will you structure and name your folders?

#### File structure and names

How will you structure and name your files?

#### Documentation

- What documentation will be created during the different phases of the project?
- How will the documentation be structured?

## Metadata

- What metadata will be provided with the collected/ generated/ reused data?
- How will metadata for each object be created?
- Is there any program that can be used to document the data?
- Can metadata be added directly into the files or will the metadata be produced in another program or document?

#### Metadata standard (if applicable)

What metadata standard(s) will you use?





## **Processing your data**

## Versioning

- What is your strategy concerning versioning your data files (and scripts) during the project?
- Will you create and/or follow a convention for versioning your data?
- Who will be responsible for securing that a "Masterfile" will be maintained, documented and versioned according to the project guidelines?
- How can different versions of a data file be distinguished?

## Interoperability

• Will you make use of established software and hardware? If not, how does the software and hardware you use relate to other research?

#### If applicable:

- Will you make use of established terminologies/ontologies (i.e. structured controlled vocabularies) in the project? If not, how do your terminologies relate to established ones?
- Which coding is used (if any)? Will you build on established coding schemes? If not, how does your coding relate to other research?

## **Data Quality**

- How will data quality be evaluated?
- What data quality control measures will be used?



# Storing your data and metadata

#### Storage

- How and where will the (meta)data be stored during the project?
- For how long will the (meta)data be stored?

## Backup

- How, where and at what intervals will the (meta)data be backed-up?
- How will data be recovered in the case of a (meta)data loss incident?

#### Security

- How will sensitive (meta)data be protected? (if applicable)
- How will (meta)data access be managed?





# **Protecting your data**

## Ethical review (if applicable)

- Does your project require approval by a local ethics committee?
- How will possible ethical issues be taken into account, and codes of conduct followed?

## Informed consent (if applicable)

- Do you require informed consent for your project?
- If so, how will permission be obtained?
- How are consent files organised and stored?

## (sensitive) Personal data /confidential information (if applicable)

- How will access to (sensitive) personal data during the project be controlled?
- How will collaborators be granted access to the data in a secure way?
- If the research project is going to have data that includes confidential information or information that requires informed consent, is there a requirement to notify a privacy officer?
- Is there any confidential information within the material that requires special treatment and/or limits the access to it during/after the project?
- How will the material be protected during/after the project?
- How will permissions and restrictions be enforced?

## Intellectual property rights (IPR)/Copyrights

- Are there IPR or copyright issues to consider?
- Will permission be needed to collect/reuse the data?
- Will these rights be transferred to another organisation for data distribution and archiving?

#### Agreements (if applicable)

• What are the agreements with other stakeholders?

#### Restrictions (if applicable)

• Are there any other restrictions that need to be considered?





# Archiving and publishing your data

## Archiving

- How and where will the data be stored after the project's completion?
- Will you archive your data in a trusted data repository?
- Will the application of a persistent identifier to your data be ensured?

#### Data formats

- What formats will you provide your data in for archiving (and sharing)?
- Will specific software be required to process your data? Can this software be deposited with the data?

## Access (if applicable)

- Will your data be available (Open Access)?
- Will all data or only parts of it be published?
- What licenses do you need for your data?
- How should your data be cited when reused?
- Will there be an embargo period for (all or some of) the data?
- Are there other agreements or restrictions (see above) that need to be considered?
- Are there any legal/ethical restrictions that prevents the publication of all the material?
- Will these restrictions mean that action must be taken before the material can be made available?
- Is there a risk of delayed publication/making data available (all or parts of)? If so what might be needed to do to avoid this?



# **Discovering data**

### Identification of needs

- Do you plan to use existing data for your research?
- What is the purpose for which you need the data?
- What do you want to learn from the data?
- What type of data do you need?

#### Search for data

- Do you know where the data may be located?
- How do you plan to search for the data?

## Evaluation of data quality

- What is the minimal required quality of the data (in terms of origin, contents, scope, size, methods, etc.)?
- How do you plan to evaluate data quality (evaluation of metadata, tests, analysis, comparisons)?

#### Gaining access to data

- What are the (expected) terms and conditions for data access and use?
- What is the (expected) process for gaining access to the data?
- What is the (expected) time-span of the process for gaining access to the data?
- What are the (expected) costs for data access and use?