

Anonymisiertes Beispiel eines Datenmanagementplan aus einem naturwissenschaftlichen Projekt an der MLU

1.4.3 Management of research data and knowledge

Management and planning

The overall management (coordination) of the project is overseen by [PERSON(S), e.g. PI]. Principal investigators are responsible for the management of research data in their research groups, according to their specific disciplinary standards and inform group members accordingly. Up to now, bound lab books are in use in most groups. Furthermore, [OTHER PARTICIPATING STAFF] are informed on the treatment of lab books and electronic storage of research data in good scientific practice seminars.

Data development methods

Different kinds of data will result from the research conducted by [RESEARCH GROUP NAME OR COMMUNITY]. Typically, we run [EXPERIMENTS DESCRIPTION] with open individual data formats such as [DETAILED MENTIONED OF DATA FORMATS/TYPES] and specific procedures for data analysis. In the [COLLABORATION GROUP A] data sets will be produced which, given their moderate size and complexity, could be made publicly available to a wider audience via either institutional or community-specific repositories. In the [COLLABORATION GROUP B] large data sets resulting from computer simulations will be produced. There are current efforts to develop methodologies to make such kind of data useful for a broader group of users and publicly available (following the FAIR initiative), but these are in an initial stage.

Plans for dissemination of scientific results

Generally, we make the results of our [TOPIC] research publicly accessible by publication in international journals and in some cases at preprint servers such as [MENTION OF SPECIFIC REPOSITORIES and or PREPRINT SERVICES].

[STATEMENT FOR USAGE OF Share_it]

For dissemination of some of the data sets derived from the project, a data deposit in the Open Access publications and research data repository of the Martin Luther University Share_it is planned. Share_it enables the storage of the data and resource discovery through adequate metadata (e.g. DOI). This increases the searchability and simplifies the citation and referencing of our research outputs. The repository uses metadata standards like MODS and METS to foster the accessibility (both by human as well as machines) and interoperability of publications and datasets. It makes use of diverse interface technologies which ease the communication and metadata transfer to other data repositories and online resources to maximize data reuse. In addition, several license models are offered in this institutional repository which will allow us to easily define the terms and conditions of any data or publications deposits.

For research data sets that cannot be easily deposited in repositories because of their size or complexity, the option of describing the data set with adequate metadata to make it visible to others and providing a link to the data resources is being considered.

In some of our communities the use of public repositories is uncommon. Accordingly, the [RESEARCH GROUP] does not intend to create its own research data platform or repository but asks his members to publish their research data in disciplinary repositories for best visibility and re-use, where appropriate repositories are available. With [GROUP A], [DATA TYPE DESCRIPTION] are stored in the [NAME OF REPOSITORY /DATABASE] and [OTHER DATA TYPES] in the [NAME OF REPOSITORY /DATABASE]. Simulation codes are stored in [CODE ARCHIVE or REPOSITORY e.g. GITHUB / GITLAB] by [GROUP B].

Archiving and long-term preservation

We strive at storing and preserving the research/primary data of experiments and [LIST OF ANY OTHER RELEVANT DATA TYPES] derived from of all projects according to the rules of good scientific practice [DFG,H2020 OR OTHER GUIDELINES OR SPECIFIC COMMUNITY STANDARDS], at least for 10 years.

Backup copies are stored at local computers and later on transferred on a regular basis to backup archives of the computing centers of the [PARTICIPATING INSTITUTIONS]. Computer centers of the universities provide the infrastructure for backup, and long-time storage/ archiving (at least 10 years) of data. Also [MENTION OF CLOUD SERVICES IF RELEVANT] is provided. For storage and exchange of larger data sets, mainly simulation data, [MENTION OF SERVICES OR RELEVANT DEVICES BEING USED] are used.

[DATA WAIVERS / OR DATA AVAILABILITY RESTRICTION STATEMENTS]

The heterogeneity of the created data from measurements, lab work and simulations, as well as various standards of the different communities for research data management in the [RELEVANT SCIENTIFIC COMMUNITY] reduces re-use of research data to an individual level. Nonetheless, efforts are made to, whenever it is possible, keep all project data stored in open data formats and for free use within the [RESEARCH GROUP] and by other scientific groups.

Copyright, intellectual property rights

Research data contains no personal information and there are no special legal restrictions. [IF PATENTS ARE PLANNED, THESE SHOULD BE MENTIONED HERE]