Plan Overview

A Data Management Plan created using DMPonline

Title: A European Framework for Transdisciplinary Education

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Affiliation: Delft University of Technology

Funder: European Commission

Template: TU Delft Data Management Plan template (2025)

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Project abstract:

PhD research, in which I will develop a framework for implementing transdisciplinary (TD) education within a European university context. Research will begin with interviews and prototyping at TU Delft. Thereafter, I will collaborate with NTNU to interrogate the framework further.

The aim of the framework is to provide a model and discussion tool towards TD implementation across all aspects of a university.

A Research through Design (RtD) methodology will be used as an overall farming of the project.

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Copyright information:

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A European Framework for Transdisciplinary Education

0. Administrative questions

1. Provide the name of the data management support staff consulted during the preparation of this plan and the date of consultation. Please also mention if you consulted any other support staff.

Jeff Love, Data Steward at IDE. Discussion through email on 12-13 May 2025.
Completed the Research Data Management 101 course through the Graduate School on 6 November, taught by Narmin Rzayeva and Halford Dace from the TU Delft Library.

2. Is TU Delft the lead institution for this project?

- Yes, the only institution involved

I. Data/code description and collection or re-use

3. Provide a general description of the types of data/code you will be working with, including any re-used data/code.

Type of data/code	**File format(s)**	**How will data/code be collected/generated?** *For re-used data/code: what are the sources and terms of use?*	**Purpose of processing**	**Storage location**	**Who will have access to the data/code?**
Interview videos	.mp4	Online interviews.	Core research material.	U Drive (Project Data Storage)* *Temporarily on OneDrive and/or Creative Cloud. Data pushed to U Drive routinely and removed off other cloud services.	Myself, co-authors, supervisor.

Interview transcripts	.docx	MS Teams automatic transcription, or an offline instance of OpenAI Whisper.	Required for coding analysis.	As above.	As above.
Drawings of model design	.ai / .pdf	Analysis from interviews.	Output of research.	As above.	As above.
Prototypes of model	.ai / .pdf	Analysis from interviews.	Output of research.	As above.	As above.
Python script	.py	Retrieved from online sources.	Whisper code. For offline transcription (privacy reasons).	As above.	As above.
Demographic information	.docx	Online interviews.	To correlate to interview results.	As above.	As above.
Qualitative codebook(s)	.docx	Analysis from interviews.	Displaying results of qualitative research.	As above.	As above.
Consent forms	.pdf	Signed digitally.	To obtain and document informed consent.	To obtain and document informed consent.	
Data management plan	.pdf	Digitally created.	Backup of this document. Used for Go/No Go and HREC.	As above.	As above.
HREC Approval documents	.pdf	Digitally created.	Backup of this document.	As above.	As above.
Photos of workshops and workshop materials.	.heic	Taken with consent.	To aid analysis, specifically for offline materials.	As above.	As above.
Journal Research papers	.pdf	Research output.	Research output.	As above.	As above.
Conference papers	.pdf	Research output.	Research output.	As above.	As above.
Conference materials	.pdf	Research output.	Research output.	As above.	As above.

II. Storage and backup during the research process

4. How much data/code storage will you require during the project lifetime?

- < 250 GB

5. Where will the data/code be stored and backed-up during the project lifetime? (Select all that apply.)

- Project Data Storage (U:) drive at TU Delft

U drive location created at /TD PhD Penny.

III. Data/code documentation

6. What documentation will accompany data/code? (Select all that apply.)

- Metadata – I will adhere to disciplinary metadata standards - please explain below which standards are used
- Data – README file or other documentation explaining how data are organised

A README file will be created where needed, such as to provide explanatory information about various framework prototypes, and/or codebooks.
Metadata will be created following the standard XMP standards.

IV. Legal and ethical requirements, code of conducts

7. Does your research involve human subjects or third-party datasets collected from human participants?

If you are working with a human subject(s), you will need to obtain the HREC approval for your research project.

- Yes – please provide details in the additional information box below

Interviews will be conducted with TU Delft staff, NTNU staff, and possibly additional staff at other ENHANCE universities (ETH, UPV, Politecnico di Milano, TU Berlin, RWTH, Gdansk Tech, Warsaw Tech, Chalmers).

No third-party data sets will be used.
I intend to apply for ethical approval from the Human Research Ethics Committee, but have not yet done so for this DMP. A prior DMP was approved covering a similar purpose.

8. Will you work with personal data? (This is information about an identified or identifiable natural person, either for research or project administration purposes.)

- Yes

Demographic information, including location (place of work) and contact info will be gathered. Information will be pseudonymised.

9. Will you work with any other types of confidential or classified data or code as listed below? (Select all that apply and provide additional details below.)

If you are not sure which option to select, ask your Faculty Data Steward for advice.

- No, I will not work with any other types of confidential or classified data/code

10. How will ownership of the data and intellectual property rights to the data be managed?

For projects involving commercially-sensitive research or research involving third parties, seek advice of your Faculty Contract Manager when answering this question.

This is an internal TUD research project.

11. Which personal data or data from human participants do you work with? (Select all that apply.)

- Proof of consent (such as signed consent materials which contain name and signature)
- Audio recordings
- Video materials
- Photographs
- Job title and/or employer
- Telephone number, email addresses and/or other addresses as contact details for administrative purposes
- Names and/or geolocation information as part of research data
- Names as contact details for administrative purposes

12. Please list the categories of data subjects and their geographical location.

University staff within the European Union (NL, NO, and possibly more as the research unfolds) holding a variety of roles in their respective institutions

Members of industry/society in the same countries as the universities. Likely Delft, NL and Trondheim, NO.

13. Will you be receiving personal data from or transferring personal data to third parties (groups of individuals or organisations)?

- No

From NTNU. Personal data will be stored on the U Drive.

16. What are the legal grounds for personal data processing?

- Informed consent

17. Please describe the informed consent procedure you will follow below.

I will inform the potential participants about the goals and procedures of the research project. I will also inform them about the personal data that are being processed and for what purpose. This information will be provided to the potential participants as follows as a digital copy of their response. All participants will be asked for their consent for taking part in the study and for data processing by signing a digital informed consent form before the start of the interview.

18. Where will you store the physical/digital signed consent forms or other types of proof of consent (such as recording of verbal consent)?

On the U Drive. Under /TD PhD Penny.

19. Does the processing of the personal data result in a high risk to the data subjects? (Select all that apply.)

If the processing of the personal data results in a high risk to the data subjects, it is required to perform a Data Protection Impact Assessment (DPIA). In order to determine if there is a high risk for the data subjects, please check if any of the options below that are applicable to the processing of the personal data in your research project.

If any category applies, please provide additional information in the box below. Likewise, if you collect other type of potentially sensitive data, or if you have any additional comments, include these in the box below.

If one or more options listed below apply, your project might need a DPIA. Please get in touch with the Privacy team (privacy-tud@tudelft.nl) to get advice as to whether DPIA is necessary.

- None of the above apply

23. What will happen with the personal data used in the research after the end of the research project?

- Anonymised or aggregated data will be shared with others

24. For how long will personal research data (including pseudonymised data) be stored?

- 10 years, in accordance with the TU Delft Research Data Framework Policy

25. How will your study participants be asked for their consent for data sharing?

- In the informed consent form: participants are informed that their personal data will be anonymised and that the anonymised dataset is shared publicly

V. Data sharing and long term preservation

27. Apart from personal data mentioned in question 23, will any other data be publicly shared?

Please provide a list of data/code you are going to share under 'Additional Information'.

- All other non-personal data/code underlying published articles/reports/theses

29. How will you share research data/code, including those mentioned in question 23?
Select all that apply and provide additional details below.

- All pseudonymised data will be uploaded to 4TU.ResearchData with restricted access

30. How much of your data/code will be shared in a research data repository?

- < 100 GB

31. When will the data/code be shared?

- As soon as corresponding results (papers, theses, reports) are published

32. Under what licence(s) will the data/code be released?

- CC BY-SA

Ideally under CC BY-SA. This will depend on the publisher.

VI. Data management responsibilities and resources

33. If you leave TU Delft (or are unavailable), who is going to be responsible for the data/code resulting from this project?

My supervisor: Steven Flipse (s.m.Flipse@tudelft.nl).

34. What resources (for example financial and time) will be dedicated to data management and ensuring that data will be FAIR (Findable, Accessible, Interoperable, Re-usable)?

One hour per week will be spent reviewing and organising data to adhere to FAIR principles. This includes creating metadata, README files, and pushing files to the U drive.
All materials I produce will be interoperable and reusable due to common file-types.

35. Which faculty do you belong to?

- Faculty of Industrial Design Engineering (IDE)