
Plan Overview

A Data Management Plan created using DMPonline

Title: Formalization of behavioural theory

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Template: TU Delft Data Management Plan template (2021)

Project abstract:

This dissertation had four research lines:

- 1) review of status quo
- 2) survey research
- 3) behavioural experiments
- 4) tool design

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Formalization of behavioural theory

0. Administrative questions

1. Name of data management support staff consulted during the preparation of this plan.

Nicolas Dintzner

2. Date of consultation with support staff.

2023-05-02

I. Data description and collection or re-use of existing data

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

| Type of data | File format(s) | How will data be collected (for re-used data: source and terms of use)? | Purpose of processing | Storage location | Who will have access to the data |
|-------------------------------|----------------|---|--|------------------|----------------------------------|
| review data | .xls | by me, analyzing factors that are gathered from around 30 papers | to understand the status quo (how formalizations of load shifting is done currently) | U/Surf | me and supervisors |
| survey data (own) | .xls | by me in small test surveys (e.g. The green Village) | to assess habit strength and perceived hassle for load shifting practices | U/Surf | me and supervisors |
| survey data (external) | .xls | by an external bureau like Motivaction or I&O research | to assess habit strength and perceived hassle for load shifting practices | U/Surf | me and supervisors |
| experiment (smart meter) data | .xls | by collaboration partner (probably receive directly from energy supplier, but possibly by project leader of the bigger project) | to assess the success of interventions on hassle reduction | U/Surf | me and supervisors |

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

- 250 GB - 5 TB

not sure yet, but will probably on the low side in this category

II. Documentation and data quality

5. What documentation will accompany data?

- Methodology of data collection
- README file or other documentation explaining how data is organised
- Data dictionary explaining the variables used
- Data will be deposited in a data repository at the end of the project (see section V) and data discoverability and re-usability will be ensured by adhering to the repository's metadata standards

III. Storage and backup during research process

6. Where will the data (and code, if applicable) be stored and backed-up during the project lifetime?

- Project Storage at TU Delft
- SURFdrive

and personal H drive

IV. Legal and ethical requirements, codes of conduct

7. Does your research involve human subjects or 3rd party datasets collected from human participants?

- Yes

8A. Will you work with personal data? (information about an identified or identifiable natural person)

If you are not sure which option to select, first ask your [Faculty Data Steward](#) for advice. You can also check with the [privacy website](#) . If you would like to contact the privacy team: privacy-tud@tudelft.nl, please bring your DMP.

- Yes

Survey data will be personal (demographics but also preferences and opinions from households on their perceived psychological barriers to load shifting). The data for the test-surveys are collected by me, the actual survey is performed by a bureau that provides a panel. Those data will be anonymized before I get them.

Field experiments (smart meter) data are coming from an energy supplier. They cannot share personal info with researchers according to law and their code-of-conduct, so data will be anonymized also and maybe even aggregated.

8B. Will you work with any other types of confidential or classified data or code as listed below? (tick all that apply)

If you are not sure which option to select, ask your [Faculty Data Steward](#) for advice.

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

9. 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. If this is not the case, you can use the example below.

Intellectual property of results is owned by TU Delft.

10. Which personal data will you process? Tick all that apply

- Gender, date of birth and/or age
- Data collected in Informed Consent form (names and email addresses)
- Email addresses and/or other addresses for digital communication

Not set in stone yet, but demographics (gender, age, household types, size of household, household habits etc) are gathered, and will be identifiable through an email-address if respondents like to be updated on the results of the project

11. Please list the categories of data subjects

clients of energy supplier, households in field pilots (like green village), respondents in data base of a survey company (like motivation)

12. Will you be sharing personal data with individuals/organisations outside of the EEA (European Economic Area)?

- No

15. What is the legal ground for personal data processing?

- Informed consent

16. Please describe the informed consent procedure you will follow:

For the test-survey, all respondents will be asked for their (digital) consent for taking part in the study and for data processing before the start of the surveys.

For the survey itself, the survey company that provides the panel deals with this.

For the field experiments, consent for using the data is given to the energy supplier.

17. Where will you store the signed consent forms?

- Same storage solutions as explained in question 6

18. Does the processing of the personal data result in a high risk to the data subjects?

If the processing of the personal data results in a high risk to the data subjects, it is required to perform [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 during your research (check all that apply).

If two or more of the options listed below apply, you will have to [complete the DPIA](#). Please get in touch with the privacy team: privacy-tud@tudelft.nl to receive support with DPIA.

If only one of the options listed below applies, 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.

If you have any additional comments, please add them in the box below.

- Evaluation or scoring

in the field experiments, hypothesis are tested if people change the timing of their households practices (e.g. doing the laundry or charging the car) based on hassle reduction (e.g. less effort to plan the practice). So that's predicting I guess.

19. Did the privacy team advise you to perform a DPIA?

- No

not yet, I will contact them

22. What will happen with personal research data after the end of the research project?

- Anonymised or aggregated data will be shared with others

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

- Yes, in consent form - please explain below what you will do with data from participants who did not consent to data sharing

V. Data sharing and long-term preservation

27. Apart from personal data mentioned in question 22, will any other data be publicly shared?

- All other non-personal data (and code) produced in the project
- All other non-personal data (and code) underlying published articles / reports / theses
- All validated non-positive results which do not contain personal data

29. How will you share research data (and code), including the one mentioned in question 22?

- All anonymised or aggregated data, and/or all other non-personal data will be uploaded to 4TU.ResearchData with public access
- I will upload the data to another data repository (please provide details below)

when published under DOI

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

- < 100 GB

31. When will the data (or code) be shared?

- At the end of the research project
- As soon as corresponding results (papers, theses, reports) are published

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

- CC0

not sure, have to check with data steward

VI. Data management responsibilities and resources

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

- Yes, leading the collaboration - please provide details of the type of collaboration and the involved parties below

data of surveys: TUD lead institution

data of field experiments: either direct collaboration with Dutch energy supplier, or (European funded) collaboration with project everybody is part of (then collaboration with project leader providing the Dutch data is most important)

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

My supervisor, promoters, or head of department of MAS within TPM when they leave TUD.

35. 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)?

Should the time of the TPM data steward be included here?

No extra other costs on storage or software or publication are foreseen yet