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## Plan Overview

*A Data Management Plan created using DMPonline*

**Title:** Design of a low-cost laparoscope

**Creator:** Tijn Jeletich

**Affiliation:** Delft University of Technology

**Template:** TU Delft Data Management Plan template (2025)

**Project abstract:**

Design of a low-cost laparoscope to be used in low- and middle income countries. A context-driven approach is used. Therefore, input of local experts is needed to provide the context and ensure an effective and implementable design.

**ID:** 189406

**Start date:** 03-11-2025

**End date:** 27-06-2026

**Last modified:** 30-10-2025

# Design of a low-cost laparoscope

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## 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.**

Björn Peare Bartholdy, Data Steward at the Faculty of ME, has reviewed this DMP on 27-10-2025.  
I did not consult any other staff.

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

- Yes, the only institution involved

## 1. 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?<br><i>For re-used data/code: what are the sources and terms of use?</i> | Purpose of processing                                                                                       | Storage location     | Who will have access to the data/code?                                                |
|----------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------|
| Information on local healthcare system | .docx          | Semi-structured interview, transcribed with Microsoft Teams                                                        | Gain insight in local healthcare system to derive functional requirements for design of lowcost laparoscope | Project data storage | TUD Project team<br>me: Tijn Jeletich<br>Supervisors: Jenny Dankelman<br>Roos Oosting |
| Informed consent forms                 | PDF            | Informed consent forms signed digitally.                                                                           | To obtain and document informed consent.                                                                    | Project Data Storage | 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

## **III. Data/code documentation**

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

- Data – Methodology of data collection

Online semi-structured interviews will be held with local professionals. These will be transcribed and anonymized.

## **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

I intend to apply for ethical approval from the Human Research Ethics Committee, but have not yet done so.

**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

**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 MSc thesis project.

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

- Free text fields (for instance, in questionnaires) in which participants could unintentionally share personal data
- Proof of consent (such as signed consent materials which contain name and signature)
- 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

For the names and/or geolocation option:

Participants will be referred to as Healthcare Professional from LMIC. So no names or specific geolocation will be mentioned.

The interviews will be transcribed using Microsoft Teams, but not audio or video recorded.

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

The participants are professionals working in healthcare in low- and middle income countries. the participants are located in Africa and India.

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

- No

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

- Informed consent

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

The researcher will inform the potential participants about the goals and procedures of the research project. The researcher 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 a digital copy before the interview will take place. 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)?**

Project Data Storage

**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](mailto: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

Anonymized data will be shared with others. Personal information will be deleted after completion of the project.

**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 produced in the project

**29. How will you share research data/code, including those mentioned in question 23?**

***Select all that apply and provide additional details below.***

- I am a Bachelor's/Master's student at TU Delft and I will share the data/code in the body and/or appendices of my thesis/report in the TU Delft Repository

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

- Not applicable - No data/code will be shared in a repository

**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?**

- Other – please explain below

Masters Thesis

**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 Roos Oosting, with email address [R.M.Oosting@tudelft.nl](mailto:R.M.Oosting@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)?**

Not applicable

**35. Which faculty do you belong to?**

- Faculty of Mechanical Engineering (ME)