Plan Overview

A Data Management Plan created using DMPonline

Title: LR PhD Thesis Project - Oriol Cayon

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LR PhD Thesis Project - Oriol Cayon

0. Administrative questions

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

Heather Adrews, the Data Steward of the Faculty of Aerospace Engineering of the TU Delft.

2. Date of consultation with support staff.

2024-01-25

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
Experimental flight data	.csv	Collected by industrial partners in the PhD consortium.	Improve the quality of data and estimate more states based on the available data	C: drive, Github	People in the consortium. Some datasets will be public
Sensor fusion code	.py	It is a python tool that uses flight datasets	Kaman filter to estimate wind conditions and aerodynamic characteristics of AWES	Github	Public
Aerodynamic model code	.py		Aerodynamic model	Github, C: drive	Public
Flight simulation data	.csv	Obtained from dynamic simulations of AWES	Validation, critical load identification.	C:drive	Public
LES datasets		Publicly available LES wind fields	LES data fields to be used in dynamic simulations.	Zenodo	Public

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

- 250 GB - 5 TB

II. Documentation and data quality

5. What documentation will accompany data?

- README file or other documentation explaining how data is organised

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?

- Git(lab)/subversion repository at TU Delft
- SURFdrive
- Another storage system - please explain below, including provided security measures
- Project Storage at TU Delft

IV. Legal and ethical requirements, codes of conduct

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

- No

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.

- No

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.

- Yes, confidential data received from commercial, or other external partners

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.

The datasets underlying the published papers will be publicly released following the TU Delft Research Data Framework Policy. During the active phase of research, the project leader from TU Delft will oversee the access rights to data (and other outputs), as well as any requests for access from external parties.

V. Data sharing and long-term preservation

26. What data will be publicly shared?

- Not all data can be publicly shared - please explain below which data and why cannot be publicly shared

28. How will you share your research data (and code)?

- I will share my data and code via git(lab)/subversion and also create a snapshot in a repository
- I will upload the data to another data repository (please provide details below)

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?

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

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

- Apache
- CC BY

VI. Data management responsibilities and resources

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

- No - please provide details of the lead institution below and TU Delft's role in the project

This PhD is part of a European Consortium named Meridional, funded by the European Union.
https://meridional.eu/

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

Associate Professor Roland Schmehl (r.schmehl@tudelft.nl)

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)?

4TU.ResearchData is able to archive 1TB of data per researcher per year free of charge for all TU Delft researchers. We do not expect to exceed this and therefore there are no additional costs of long term preservation.
The dedicated data manager hired in the project (see the project proposal and staff allocation) will be responsible for data management in the project.