
Plan Overview

A Data Management Plan created using DMPonline

Title: Management of integrated safety and security barriers in the process industries

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Template: TU Delft Data Management Plan template (2021)

Project abstract:

Safety and security barriers are vital to accident prevention and consequence mitigation. This research will investigate how to assess the performance of safety and security barriers, and to manage them to assure the safety of chemical plants under economic constraints. A set of models, methods, and tools will be developed to support the implementation of the integrated framework.

ID: 87280

Start date: 01-11-2020

End date: 31-10-2024

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Copyright information:

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Management of integrated safety and security barriers in the process industries

0. Administrative questions

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

My faculty data steward, Nicolas Dintzner, has reviewed this DMP on 17/11/2021.

2. Date of consultation with support staff.

2021-11-17

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 |
|------------------------------|---|---|---|---|----------------------------------|
| Numerical simulation results | .png/.jpg/.TIFF/.md/.xlsx/.csv/.txt/ascii | from OpenFoam simulation and MATLAB simulation | simulation results and raw data for scientific papers | Local desktop and portable hard drive | The research group |
| codes | ascii/.m | from OpenFoam simulation and MATLAB simulation | CFD simulations and other numerical simulations | local hard disk and portable hard drive | The research group |
| | | | | | |
| | | | | | |

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

- < 250 GB

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?

- Project Storage at TU Delft
- OneDrive

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, ask your [Faculty Data Steward](#) for advice. You can also check with the [privacy website](#) or contact the privacy team: privacy-tud@tudelft.nl

- No

8B. Will you work with any 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.

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. They will be released publicly no later than at the time of publication of corresponding research papers.

V. Data sharing and long-term preservation

26. What data will be publicly shared?

- All validated non-positive results

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

- All data will be uploaded to 4TU.ResearchData

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

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

- CC0

VI. Data management responsibilities and resources

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

- Yes, the only institution involved

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

My promotor and daily supervisor

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)?

The dedicated data manager hired in the project (see the project proposal and staff allocation) will be responsible for data management in the project.