
Plan Overview

A Data Management Plan created using DeIC DMP

Title: Compositional Analysis of Footwear

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Template: DTU DMP Template

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Project abstract:

The footwear industry has experienced increased sales since 1950, with 23.9 billion pairs manufactured in 2022. However, the EU generates over 1 million tonnes of shoe waste annually. End-of-life management is critical due to rising material costs and environmental regulations, yet recycling rates for footwear remain below 5 % due to limited separate collections, complex designs both at chemical and product level, and limited recycling technologies. With the support of the Marie Skłodowska-Curie Actions programme, the SCARPA project will train a new generation of experts in designing circular footwear. Participants will learn about the footwear value chain including the consumer role, recycling technologies for high-value recyclates, and how decisions in one part of the value chain affect overall sustainability, including life cycle assessment (LCA).

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Copyright information:

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Compositional Analysis of Footwear

Planning checklist

Policies, guidelines, procedures and best practices that are followed

- Local Guidelines and Procedures
- DTU Research Data Management Policy
- DTU Danish Code of Conduct for Research Integrity
- Funder requirements
- Agreement with project partners
- DTU Information Security Policy

Other

If there are collaborations with other PhDs and/or researchers at other institutions, we will discuss their guidelines.

Data collection

Information about the datasets you will create in the project

Dataset (name, ID)	Data type and format	Data collection method/data origin	Equipment/software/instruments involved in data collection (e.g. instrument ID for instrument listed in EIS)	File naming convention and versioning	Folder structure	Expected/estimated volume (MB, GB, TB)	Objective
Shoe Type	Description	Observation of the Footwear	Photos .png, CN code	Sample X.CN code.png	Sample Source > Sample Photos > Sample X	GB of photo storage	Visual Log of samples
Component	Description	Observation	Hand tools for dismantling	Sample X.CN Code.Component	Sample Source > Sample X > Component	MB	Component Index
Component Material	Qualitative, from FTIR	FTIR, Instrument specific file format and .csv for data sharing	ATR-FTIR	Sample X.CN Code.Component.FTIR.(XX) or .csv	Sample Source > FTIR > Sample X > Sample > Component > FTIR File	MB	The most important analysis of the project, material of the individual components
Trace Substances	Qualitative	Various Instruments	analytical testing instruments	Sample X.CN Code.component.material.test.file	Sample Source > Trace Testing	MB	Auxiliary and trace testing to understand material environment
Mechanical Testing of materials	Quantitative	Various Instruments	mechanical testing instruments	Sample X.CN Code.Component.material.test.file	Sample Source > Sample X > Mechanical Testing	MB	How can the materials be separated for EoL

Will you reuse any existing data (including personal data)?

- No

Legal aspects

Use and reuse of all or parts the data are limited by:

- Contracts, collaboration agreement and consortium agreements

We are working with the EU on an MSCA grant. We also work with up to 10 other universities across the EU and we have a large group of consortium members.

Describe in the text field any agreements with collaborators and restrictions that can limit the use, reuse, sharing and publication of data.

Data sharing regulations up to European Commission and MSCA

Ethics checklist

- The project require human ethical review.

We might use surveys and might do testing using humans

Will you use personal data in the project?

- I am not sure

Not sure right now.

Will you use special categories of personal data?

- No

We might use personal data, which might include special categories.

Is personal data collected by you or by others?

- Me
- Third party

Are you receiving personal data from others?

- I do not know yet

Are you transferring personal data to others?

- No
- I do not know yet

not sure yet.

Data storage

Description of storage solutions.

Dataset and datatype	Data storage service	Back – up procedure (to ensure no data is lost)	Folder and file path
Pilot Sample Photos	M drive	DTU IT	"M:\Pilot Project and Analysis\Sample Photos"
Pilot Sample Data	M drive	DTU IT	"M:\Pilot Project and Analysis\Sample Data"
Pilot FTIR	M drive	DTU IT	"M:\Pilot Project and Analysis\Sample Data\FTIR"
(Source) Sample Photos	M drive	DTU IT	"M:\(Source) Project and Analysis\Sample Photos"
(Source) Sample Data	M drive	DTU IT	"M:\(Source) Project and Analysis\Sample Data"
(Source) FTIR	M drive	DTU IT	"M:\(Source) Project and Analysis\Sample Data\FTIR"

Description of the solutions used for data sharing with colleagues and collaborators

Zip files and access to Q drive

Procedure for granting access to collaborative data in a secure way

Read the data sharing guidelines provided by project funder.

Documentation

Indicate the documentation/information necessary to read, interpret and/or reproduce the data:

Type of documentation	Title	Storage location	Version control	Format
Protocol	Footwear Labeling	Lab Notebook, word document		
Protocol	Footwear Disassembly	Lab Notebook, word document		
SOP	Footwear Data Collection Process	Lab Notebook, word document		
LAB Notebook/ELN	Entries	Separated by Date and experiment		
Report		Word Document		
Instruments and devices (calibration, ID, etc)	FTIR	Lab Notebook		
Papers	Article and project	Word document		

Metadata

Which metadata will be provided to enrich the data?

Dataset	List data and metadata standards that you will use (e.g. DataCite metadata, discipline specific controlled vocabulary etc.)	Will metadata be generated automatically or entered manually?

Data publication

List of datasets/outputs of the project, how they will be published and follow the FAIR principles.

Dataset (title/name)	Will data be published open access (yes/no)	When will data be openly available	Embargo period/access level (specify if data will be open access after an embargo period)	Are the dataset supporting data for a publication (yes/no)	In which repository do you intend to publish data	Accompanying documentation, tools or software needed to create, process or visualize the data	How will potential users find the data	DOI (Insert DOIs for published datasets)
(Source) Project and Analysis	yes	after publication	no embargo	yes	Zenodo	Origin	Supporting information and link in open access publication	

Are there any legal or ethical protection that limits the access of data or subsets of data? (e.g. IPR, Copyright, dual use, GDPR)

- No

Are the datasets connected to other research outputs and/or resources? (e.g. research papers, reports, posters, instruments, High performance computing)

yes

Costs and resources

What resources will be dedicated to data management?

- Preparing data publication (conversion of formats etc.)
- People
- Preparing data for archiving (conversion of formats etc.)
- Hours

Long-term preservation

Specify how data will be preserved beyond the scope of the projects and how the value will be secured:

What is the total amount of data collected (in MB/GB/TB)?	10GB
What procedure will be used to handle requests for data? (in case data access are restricted)	data access won't be restricted
Which data will be preserved? (specify criteria for long term preservation (>5-10 years))	Analytical data
Where is data archived?	Zenodo
Which documentation created during the project is necessary to interpret the data? (NB: Some types of State research data must be reported to The Danish National Archives).	SOPs
Where is documentation stored?	Windows drive
How will readability of the data be guaranteed?	Readability is guaranteed by notation and by file and software
Which data will be deleted and when?	Photos will be deleted due to their storage. After the project is completed

Data contact persons

Specify names, roles and responsibility for data in the project

People involved in data management (name)	Specify role (e.g. data collector, data analyst)	Contact info (mail and/or ORCID)	Who is responsible for archiving or deleting data?	Where is the final DMP stored and who has access to it?
Chelan West	Collector, analyst	cmawe@dtu.dk	Chelan West	

Change history

Indicate version and changes to the DMP

Version and date	Changed by	Changes