DMP title

Project Name My plan (FWO DMP) - DMP title
Principal Investigator / Researcher Christian Clasen
Institution KU Leuven

1. General Information
Name applicant
Christian Clasen

FWO Project Number & Title
G088922N - OrthoChirp

Affiliation

- KU Leuven

2. Data description
Will you generate/collect new data and/or make use of existing data?

- Generate new data

Describe in detail the origin, type and format of the data (per dataset) and its (estimated) volume. This may be easiest in a table (see example) or as a data flow and per WP or objective of the project. If you reuse existing data, specify the source of these data. Distinguish data types (the kind of content) from data formats (the technical format).

Type of data	Format	Volume	How created
rheometer output data	.xls	20 GB	Exported data from the commercial rheometers, exported to Excel.
Scanned images of archival documents	.jpeg	2 GB	Digitalization of lab-books which contain information on the experimental setup, conduction, and results as sample compositions, exp. settings, data visualisation , etc.
mechano-spectroscopical raw data, parameter logs of instrument calibration and transfer function	.txt	500 GB	Output raw data, recorded directly from the spectralanalyser using a DAQ card
computercode and chirp functions	.m	5 GB	Matlab files to analyse the raw data and to generate wave functions to feed into spectralanalyzer
python codes	.py	2 GB	Python codes, programmed to implement new chirp algorithms as open source
general text data (draft manuscripts and accepted manuscripts (with figures and tables); Presentations ; Minutes of consortium meetings	.docx, .tex, .pdf	2 GB	text processing software (Word, Latek, pdf converter

3. Legal and ethical issues
Will you use personal data? If so, shortly describe the kind of personal data you will use. Add the reference to your file in KU Leuven's Register of Data Processing for Research and Public Service Purposes (PRET application). Be aware that registering the fact that you process personal data is a legal obligation.

- No

Are there any ethical issues concerning the creation and/or use of the data (e.g. experiments on humans or animals, dual use)? If so, add the reference to the formal approval by the relevant ethical review committee(s)

- No

Does your work possibly result in research data with potential for tech transfer and valorisation? Will IP restrictions be claimed for the data you created? If so, for what data and which restrictions will be asserted?

- No

Do existing 3rd party agreements restrict dissemination or exploitation of the data you (re)use? If so, to what data do they relate and what restrictions are in place?

- No

4. Documentation and metadata
What documentation will be provided to enable reuse of the data collected/generated in this project?
The experimental designs, instrument settings, general and specific observations will be noted in a (digital) lab journal.
For the generated codes, specific readme files will be generated in text form, specifiying the usuage and detail of the codes.
Similarly, for the single simulations, readme files with the specific input parameters will be generated.

Will a metadata standard be used? If so, describe in detail which standard will be used. If no, state in detail which metadata will be created to make the data easy/easier to find and reuse.

- No

5. Data storage and backup during the FWO project

Where will the data be stored?
Data will be stored during 10 years on an external drive, dedicated to this project, as well as on a drive (server) provided by ICT department of KU Leuven

How is backup of the data provided?
In addition to the automatic daily back-up procedures for the data stored on the ICT server, a second back-up will be done on a NAS located at the physics department KU Leuven.

Is there currently sufficient storage & backup capacity during the project? If yes, specify concisely. If no or insufficient storage or backup capacities are available then explain how this will be taken care of.

- Yes

2 TB storage foreseen in external storage media and for the NAS backup.

What are the expected costs for data storage and back up during the project? How will these costs be covered?
external harddrives eventually to be purchased, NAS maintanance is caried via general expenses of the SMaRT research group.

Data security: how will you ensure that the data are securely stored and not accessed or modified by unauthorized persons?
external data storage as well as NAS data will be encrypted. Data that will be stored at ICT will be stored in the university's secure environment for private data.

6. Data preservation after the FWO project
Which data will be retained for the expected 5 year period after the end of the project? In case only a selection of the data can/will be preserved, clearly state the reasons for this (legal or contractual restrictions, physical preservation issues, ...).
All data will be retained for the expected 5 year period after the end of the project. The data will be stored on the university's central servers (with automatic back-up procedures).

Where will the data be archived (= stored for the longer term)?
The data will be stored on the university's central servers (with automatic back-up procedures) for at least 10 years, conform the KU Leuven RDM policy.

What are the expected costs for data preservation during the retention period of 5 years? How will the costs be covered?
Expected costs are 1000 EUR, which will be covered from reserve funds.

7. Data sharing and reuse
Are there any factors restricting or preventing the sharing of (some of) the data (e.g. as defined in an agreement with a 3rd party, legal restrictions)?

- No

Which data will be made available after the end of the project?
Upon publication of the research results, the full datasets will be made available upon request.

Where/how will the data be made available for reuse?

- Other (specify):

Data will be available on request by mail.

When will the data be made available?

- Upon publication of the research results

Who will be able to access the data and under what conditions?
Only uses for research purposes will be allowed and commercial reuse will be excluded.

What are the expected costs for data sharing? How will the costs be covered?
No costs are expected as the data can be shared via online platforms (e.g. WeTransfer). If costs would occur they will be covered from resevere funds.

8. Responsibilities
Who will be responsible for data documentation & metadata?
Researchers working on the project.

Who will be responsible for data storage & back up during the project?
Researchers working on the project and the PIs.

Who will be responsible for ensuring data preservation and reuse ?
The PIs.

Who bears the end responsibility for updating & implementing this DMP?
The PIs bear the end responsibility of updating & implementing this DMP.