

FWO DMP Template - Flemish Standard Data Management Plan

Project supervisors (from application round 2018 onwards) and fellows (from application round 2020 onwards) will, upon being awarded their project or fellowship, be invited to develop their answers to the data management related questions into a DMP. The FWO expects a **completed DMP no later than 6 months after the official start date** of the project or fellowship. The DMP should not be submitted to FWO but to the research co-ordination office of the host institute; FWO may request the DMP in a random check.

At the end of the project, the **final version of the DMP** has to be added to the final report of the project; this should be submitted to FWO by the supervisor-spokesperson through FWO's e-portal. This DMP may of course have been updated since its first version. The DMP is an element in the final evaluation of the project by the relevant expert panel. Both the DMP submitted within the first 6 months after the start date and the final DMP may use this template.

The DMP template used by the Research Foundation Flanders (FWO) corresponds with the Flemish Standard Data Management Plan. This Flemish Standard DMP was developed by the Flemish Research Data Network (FRDN) Task Force DMP which comprises representatives of all Flemish funders and research institutions. This is a standardized DMP template based on the previous FWO template that contains the core requirements for data management planning. To increase understanding and facilitate completion of the DMP, a standardized **glossary** of definitions and abbreviations is available via the following [link](#).

1. General Project Information

Name Grant Holder & ORCID	Jentel De Vlieger 0000-0003-0439-8514
Contributor name(s) (+ ORCID) & roles	Jiabin Li (0000-0002-7333-0321) - Promotor
Project number ¹ & title	1S78923N A FEASIBILITY STUDY ON THE USE OF FINE RECYCLED AGGREGATES IN 3D PRINTING CONCRETE
Funder(s) GrantID ²	1S78923N
Affiliation(s)	<input checked="" type="checkbox"/> KU Leuven <input type="checkbox"/> Universiteit Antwerpen <input type="checkbox"/> Universiteit Gent <input type="checkbox"/> Universiteit Hasselt <input type="checkbox"/> Vrije Universiteit Brussel <input type="checkbox"/> Other: Provide ROR ³ identifier when possible: https://ror.org/05f950310

¹ "Project number" refers to the institutional project number. This question is optional since not every institution has an internal project number different from the GrantID. Applicants can only provide one project number.

² Funder(s) GrantID refers to the number of the DMP at the funder(s), here one can specify multiple GrantIDs if multiple funding sources were used.

³ Research Organization Registry Community. <https://ror.org/>

Please provide a short project description	<p>New recycling processes and quality controls in the construction industry have transformed construction and demolition waste (CDW) into recycled aggregates (RA), mainly used as foundation and sub-foundation layers in road construction. However, this application results in a decrease in the value of the secondary raw resource, which is considered downcycling. To address this issue, innovative applications are needed to produce new building elements with low ecological footprint using recycled CDW. This project aims to assess the feasibility of using fine recycled aggregates (FRA) in 3D printing concrete (3DPC), which could improve the rheological properties of the mixture and reduce the use of polluting, expensive, and/or scarce materials like cement and admixtures. By replacing natural aggregates with FRA, the ecological footprint of 3DPC can be reduced while improving its printability. This project will validate the use of several types of FRA in 3DPC and offer requirements and maximum replacement rates for specific application areas and exposure classes in the construction industry, ultimately contributing to a more circular construction industry.</p>
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2. Research Data Summary

List and describe all datasets or research materials that you plan to generate/collect or reuse during your research project. For each dataset or data type (observational, experimental etc.), provide a short name & description (sufficient for yourself to know what data it is about), indicate whether the data are newly generated/collected or reused, digital or physical, also indicate the type of the data (the kind of content), its technical format (file extension), and an estimate of the upper limit of the volume of the data⁴.

Dataset Name	Description	New or Reused	Digital or Physical	ONLY FOR DIGITAL DATA	ONLY FOR DIGITAL DATA	ONLY FOR DIGITAL DATA	ONLY FOR PHYSICAL DATA
				Digital Data Type	Digital Data Format	Digital Data Volume (MB, GB, TB)	Physical Volume
Geometrical data – Microscope images of aggregates	The dataset consists of microscope images of sand particles. The images are taken using a microscope and provide a detailed view of the shapes and sizes of the sand particles.	<input checked="" type="checkbox"/> Generate new data	<input checked="" type="checkbox"/> Digital	<input checked="" type="checkbox"/> Experimental	<input checked="" type="checkbox"/> .png	<input checked="" type="checkbox"/> < 100 GB	/
Aggregate data – physical properties	The dataset consists of physical properties of various aggregates used in construction and civil engineering.	<input checked="" type="checkbox"/> Generate new data	<input checked="" type="checkbox"/> Digital	<input checked="" type="checkbox"/> Observational	<input checked="" type="checkbox"/> .xlsx	<input checked="" type="checkbox"/> < 1 GB	/

⁴ Add rows for each dataset you want to describe.

	These properties include water absorption, fines modulus, density, and other similar parameters.						
Reference mixtures – Weber Saint Gobain	The dataset provides information on the mix proportions and mix design of the reference mixture used in this research. This mixture serves as a standard against which other mixtures can be compared. The dataset provides detailed information on the materials used in the reference mixture, such as	<input checked="" type="checkbox"/> Reuse existing data	<input checked="" type="checkbox"/> Digital	<input checked="" type="checkbox"/> NA	<input checked="" type="checkbox"/> .txt	<input checked="" type="checkbox"/> < 1 GB	/

	the type and proportions of aggregates, cement, water, and other additives. The dataset also includes information on the properties of the reference mixture, such as compressive strength, durability, and workability.						
Rheological data – RM 100 PLUS	The dataset consists of data obtained from a rheology meter RM 100 PLUS. The dataset contains measurements of the rheological properties of various materials, such as viscosity,	<input checked="" type="checkbox"/> Generate new data	<input checked="" type="checkbox"/> Digital	<input checked="" type="checkbox"/> Experimental	<input checked="" type="checkbox"/> .txt	<input checked="" type="checkbox"/> < 1 GB	/

	elasticity, and yield stress.						
Rheological data – Slump test	The dataset consists of data obtained from a slump test. The test involves filling a cone-shaped mold with freshly mixed concrete and then removing the mold to observe the slump, or deformation, of the concrete.	<input checked="" type="checkbox"/> Generate new data	<input checked="" type="checkbox"/> Digital	<input checked="" type="checkbox"/> Experimental	<input checked="" type="checkbox"/> .xlsx	<input checked="" type="checkbox"/> < 1 GB	/
Rheological data – Slump flow test	The dataset consists of data obtained from a slump flow test performed with a shock table. The dataset contains measurements of the slump flow diameter, which is the diameter of the	<input checked="" type="checkbox"/> Generate new data	<input checked="" type="checkbox"/> Digital	<input checked="" type="checkbox"/> Experimental	<input checked="" type="checkbox"/> .xlsx	<input checked="" type="checkbox"/> < 1 GB	/

	concrete spread on the horizontal surface.						
Rheological data – Penetration test	The dataset consists of data obtained from a penetration test, which is a common test used to measure the consistency and stiffness of mixtures. The dataset contains measurements of the penetration depth.	<input checked="" type="checkbox"/> Generate new data	<input checked="" type="checkbox"/> Digital	<input checked="" type="checkbox"/> Experimental	<input checked="" type="checkbox"/> .txt	<input checked="" type="checkbox"/> < 1 GB	/
Rheological data – UCT	The dataset consists of data obtained from an unconfined compression test, which is a common test used to measure the strength and	<input checked="" type="checkbox"/> Generate new data	<input checked="" type="checkbox"/> Digital	<input checked="" type="checkbox"/> Experimental	<input checked="" type="checkbox"/> .txt	<input checked="" type="checkbox"/> < 1 GB	/

	deformation properties of materials. The dataset contains measurements of the compressive strength, deformation, and stress-strain behaviour of the concrete.						
Mechanical data – Penetration test	The dataset consists of data obtained from a penetration test. The dataset contains measurements of the indentation depth.	<input checked="" type="checkbox"/> Generate new data	<input checked="" type="checkbox"/> Digital	<input checked="" type="checkbox"/> Experimental	<input checked="" type="checkbox"/> .txt	<input checked="" type="checkbox"/> < 1 GB	/
Mechanical data – Compressive and flexural strength	The dataset consists of data obtained from compressive and flexural strength tests.	<input checked="" type="checkbox"/> Generate new data	<input checked="" type="checkbox"/> Digital	<input checked="" type="checkbox"/> Experimental	<input checked="" type="checkbox"/> .txt	<input checked="" type="checkbox"/> < 1 GB	/

Mechanical data - Shrinkage	The dataset contains measurements of the shrinkage.	<input checked="" type="checkbox"/> Generate new data	<input checked="" type="checkbox"/> Digital	<input checked="" type="checkbox"/> Experimental	<input checked="" type="checkbox"/> .xlsx	<input checked="" type="checkbox"/> < 1 GB	/
Durability data – Freeze thaw resistance	The dataset contains measurements of the freeze-thaw resistance.	<input checked="" type="checkbox"/> Generate new data	<input checked="" type="checkbox"/> Digital	<input checked="" type="checkbox"/> Experimental	<input checked="" type="checkbox"/> .xlsx	<input checked="" type="checkbox"/> < 1 GB	/
Durability data – Sulphate attack	The dataset contains measurements of the resistance to sulphate attack.	<input checked="" type="checkbox"/> Generate new data	<input checked="" type="checkbox"/> Digital	<input checked="" type="checkbox"/> Experimental	<input checked="" type="checkbox"/> .xlsx	<input checked="" type="checkbox"/> < 1 GB	/
Printability data – Pumpability, extrudability, buildability	The dataset includes measurements of three key aspects of printability: pumpability, extrudability, and buildability.	<input checked="" type="checkbox"/> Generate new data	<input checked="" type="checkbox"/> Digital	<input checked="" type="checkbox"/> Experimental	<input checked="" type="checkbox"/> .xlsx	<input checked="" type="checkbox"/> < 1 GB	/
Physical data – tested samples	The dataset contains all tested samples of importance for future	<input checked="" type="checkbox"/> Generate new data	<input checked="" type="checkbox"/> Physical	/	/	/	<input checked="" type="checkbox"/> < 5 m ³

	scanning and reference.						
<p><i>GUIDANCE:</i></p> <p><i>DATA CAN BE DIGITAL OR PHYSICAL (FOR EXAMPLE BIOBANK, BIOLOGICAL SAMPLES, ...). DATA TYPE: DATA ARE OFTEN GROUPED BY TYPE (OBSERVATIONAL, EXPERIMENTAL ETC.), FORMAT AND/OR COLLECTION/GENERATION METHOD.</i></p> <p><i>EXAMPLES OF DATA TYPES: OBSERVATIONAL (E.G. SURVEY RESULTS, SENSOR READINGS, SENSORY OBSERVATIONS); EXPERIMENTAL (E.G. MICROSCOPY, SPECTROSCOPY, CHROMATOGRAMS, GENE SEQUENCES); COMPILED/AGGREGATED DATA⁵ (E.G. TEXT & DATA MINING, DERIVED VARIABLES, 3D MODELLING); SIMULATION DATA (E.G. CLIMATE MODELS); SOFTWARE, ETC.</i></p> <p><i>EXAMPLES OF DATA FORMATS: TABULAR DATA (.POR, .SPSS, STRUCTURED TEXT OR MARK-UP FILE XML, .TAB, .CSV), TEXTUAL DATA (.RTF, .XML, .TXT), GEOSPATIAL DATA (.DWG, .GML, ..), IMAGE DATA, AUDIO DATA, VIDEO DATA, DOCUMENTATION & COMPUTATIONAL SCRIPT.</i></p> <p><i>DIGITAL DATA VOLUME: PLEASE ESTIMATE THE UPPER LIMIT OF THE VOLUME OF THE DATA PER DATASET OR DATA TYPE.</i></p> <p><i>PHYSICAL VOLUME: PLEASE ESTIMATE THE PHYSICAL VOLUME OF THE RESEARCH MATERIALS (FOR EXAMPLE THE NUMBER OF RELEVANT BIOLOGICAL SAMPLES THAT NEED TO BE STORED AND PRESERVED DURING THE PROJECT AND/OR AFTER).</i></p>							
If you reuse existing data, please specify the source, preferably by using a persistent identifier (e.g. DOI, Handle, URL etc.) per dataset or data type.		The existing data is provided by the company Weber Saint Gobain.					
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, please describe these issues further and refer to specific datasets or data types when appropriate.		<input type="checkbox"/> Yes, human subject data <input type="checkbox"/> Yes, animal data <input type="checkbox"/> Yes, dual use <input checked="" type="checkbox"/> No If yes, please describe: /					

⁵ These data are generated by combining multiple existing datasets.

<p>Will you process personal data⁶? If so, briefly describe the kind of personal data you will use. Please refer to specific datasets or data types when appropriate. If available, add the reference to your file in your host institution's privacy register.</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: / - Short description of the kind of personal data that will be used: - Privacy Registry Reference:</p>
<p>Does your work have potential for commercial valorization (e.g. tech transfer, for example spin-offs, commercial exploitation, ...)? If so, please comment per dataset or data type where appropriate.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please comment: The research has the potential to contribute to commercial valorization through the development of new commercial mixtures by companies. The results obtained from the research can be utilized in various industries to enhance their product offerings. This could lead to the creation of spin-offs or the transfer of technology to companies interested in utilizing the findings. The data generated from the research may be valuable for further studies in academia or industry, and could potentially lead to new discoveries and innovations.</p>
<p>Do existing 3rd party agreements restrict exploitation or dissemination of the data you (re)use (e.g. Material/Data transfer agreements, research collaboration agreements)? If so, please explain to what data they relate and what restrictions are in place.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please explain: In this research, a commercially available reference mixture provided by the company Weber Saint Gobain is utilized. As the reference mixture contains confidential information, there will be limitations in sharing the results. The research team will ensure that the dissemination of the data and findings does not compromise the confidentiality agreement with the company.</p>

⁶ See Glossary Flemish Standard Data Management Plan

<p>Are there any other legal issues, such as intellectual property rights and ownership, to be managed related to the data you (re)use? If so, please explain to what data they relate and which restrictions will be asserted.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, please explain: In this study, a commercially available reference mixture provided by Weber Saint Gobain is utilized. Due to the presence of confidential information in the reference mixture, there will be limitations on the sharing of the research findings. To maintain confidentiality, the research team has signed a non-disclosure agreement with the company, and ensure that the dissemination of data and results does not violate the agreement.</p>
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3. Documentation and Metadata

<p>Clearly describe what approach will be followed to capture the accompanying information necessary to keep data understandable and usable, for yourself and others, now and in the future (e.g. in terms of documentation levels and types required, procedures used, Electronic Lab Notebooks, README.txt files, Codebook.tsv etc. where this information is recorded).</p>	<p>The research team will adopt a thorough approach to capture all necessary accompanying information required to maintain the data's understandability and usability, now and in the future. This approach will include documenting the data at various levels and types, such as procedures used, which will be saved in .txt, Word, and .pdf files on the OneDrive provided by KU Leuven. The documentation will be systematically recorded and stored in a structured manner, making it easy to access and retrieve the relevant information. The team will ensure that the documentation is continuously maintained and updated throughout the research project, to ensure that it remains accurate and relevant.</p>
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<p>Will a metadata standard be used to make it easier to find and reuse the data?</p> <p>If so, please specify which metadata standard will be used. If not, please specify which metadata will be created to make the data easier to find and reuse.</p> <p><i>REPOSITORIES COULD ASK TO DELIVER METADATA IN A CERTAIN FORMAT, WITH SPECIFIED ONTOLOGIES AND VOCABULARIES, I.E. STANDARD LISTS WITH UNIQUE IDENTIFIERS.</i></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, please specify (where appropriate per dataset or data type) which metadata standard will be used: In this research project, a metadata standard will be utilized to improve the discoverability and reuse of the data. The standard will involve assigning a specific code to each document, which will be based on the type of data that was collected, the method used to collect it, and other relevant information. This code will be included in the metadata for each dataset, along with other descriptive information such as the date and location of data collection, the research question being addressed, and any relevant variables or parameters. The metadata standard, will allow easy accessibility to others who may wish to reuse it. This will facilitate the validation of the results by other researchers, as well as enable the data to be integrated with other datasets for future analysis. Furthermore, the use of a standardized approach will also ensure that the data is consistent and of high quality, which is essential for enabling meaningful comparisons and analyses.</p> <p>If no, please specify (where appropriate per dataset or data type) which metadata will be created: /</p>
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4. Data Storage & Back-up during the Research Project

<p>Where will the data be stored?</p>	<p>The digital data generated from this research will be stored on a OneDrive cloud storage platform provided by KU Leuven, which offers a capacity of 1 terabyte.</p> <p>All non-digital data generated during the course of this research, including tested samples and materials, will be stored in a secure, locked location within the laboratory at KU Leuven campus Brugge. This storage location will ensure that the physical data is kept safe and secure, minimizing the risk of damage or loss due to environmental factors or unauthorized access. By implementing these storage procedures, the research team can maintain the integrity of the non-digital data and ensure that it is accessible for future analysis or reference.</p>
<p>How will the data be backed up?</p> <p><i>WHAT STORAGE AND BACKUP PROCEDURES WILL BE IN PLACE TO PREVENT DATA LOSS? DESCRIBE THE LOCATIONS, STORAGE MEDIA AND PROCEDURES THAT WILL BE USED FOR STORING AND BACKING UP DIGITAL AND NON-DIGITAL DATA DURING RESEARCH.⁷</i></p> <p><i>REFER TO INSTITUTION-SPECIFIC POLICIES REGARDING BACKUP PROCEDURES WHEN APPROPRIATE.</i></p>	<p>To ensure the safety and security of the data, it will also be automatically backed up from OneDrive to the I drive of the computer, providing an additional layer of data protection. In addition, to ensure data redundancy and prevent data loss, all data generated from the research will be transferred to an external hard drive on a monthly basis. By implementing these storage and backup procedures, the research team can ensure that the data generated during the course of the research is not lost due to equipment failure or other unforeseen events. This will enable the research team to preserve their valuable data and ensure that it can be accessed and utilized in the future, contributing to the advancement of scientific knowledge.</p>

⁷ Source: Ghent University Generic DMP Evaluation Rubric: <https://osf.io/2z5g3/>

<p>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.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, please specify concisely: Yes, there is currently sufficient storage and backup capacity for both digital and non-digital data generated during this research. The OneDrive cloud storage platform provided by KU Leuven offers a capacity of 1 terabyte for digital data storage. Additionally, there is enough space in the lab to store all tested samples and materials, which will be kept in a secure, locked location to ensure their safety and security. These storage measures will guarantee that the data and materials are well-maintained and available for future analysis or reference. To further enhance data security, the data will also be automatically backed up from OneDrive to the I drive of the computer, and all data will be transferred to an external hard drive on a monthly basis to prevent any potential data loss.</p> <p>If no, please specify:</p>
<p>How will you ensure that the data are securely stored and not accessed or modified by unauthorized persons?</p> <p><i>CLEARLY DESCRIBE THE MEASURES (IN TERMS OF PHYSICAL SECURITY, NETWORK SECURITY, AND SECURITY OF COMPUTER SYSTEMS AND FILES) THAT WILL BE TAKEN TO ENSURE THAT STORED AND TRANSFERRED DATA ARE SAFE. ⁷</i></p>	<p>To ensure that the data generated during the research is securely stored and not accessed or modified by unauthorized persons, the research team will implement several measures. The digital data will be password protected to restrict access only to authorized personnel. In addition, the access to the data will be limited to those individuals who need to use it for the research purposes. Regular backups will be made to ensure data redundancy and prevent data loss in case of equipment failure or other unforeseen events. This will include automatic backups from OneDrive to the I drive of the computer and monthly transfers to an external hard drive. Data monitoring will be conducted regularly to ensure the data remains secure and to detect any unauthorized access attempts or modifications. This will allow the research team to take action if necessary to maintain the integrity of the data.</p>

What are the expected costs for data storage and backup during the research project? How will these costs be covered?	No cost is expected for the data storage. The OneDrive cloud storage platform provided by KU Leuven is free of charge and offers a capacity of 1 terabyte for digital data storage. The storage of non-digital data, including tested samples and materials, in the secure, locked location within the laboratory at KU Leuven campus Brugge is also free of charge. Additionally, the external hard drive backup that will be used is privately owned by the researcher and does not incur any additional costs.
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5. Data Preservation after the end of the Research Project

Which data will be retained for at least five years (or longer, in agreement with other retention policies that are applicable) after the end of the project? In case some data cannot be preserved, clearly state the reasons for this (e.g. legal or contractual restrictions, storage/budget issues, institutional policies...).	All digital data generated during the research project will be retained for a minimum of five years. This includes data stored on the OneDrive cloud platform provided by KU Leuven and the external hard drive used for backup purposes. Non-digital data, such as tested samples and materials, may not be stored for at least five years due to storage capacity limitations in the KU Leuven lab. However, some important or exceptional non-digital data deemed crucial to the research may be retained in the lab for a longer period to enable future research or examination.
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Where will these data be archived (stored and curated for the long-term)?	Regarding the long-term archiving of data, the digital data generated during the research project will be stored on the OneDrive cloud platform and the external hard drive for at least five years. After this period, the research team will review the data and determine if it is necessary to keep them for a longer period or transfer them to a designated data repository for long-term storage and curation. In case of non-digital data, the important or exceptional data that can be retained in the lab for a longer period will be appropriately labeled, documented, and stored in the secure, locked location within the laboratory at KU Leuven campus Brugge.
What are the expected costs for data preservation during the expected retention period? How will these costs be covered?	No cost is expected for data preservation during the expected retention period. The OneDrive cloud platform provided by KU Leuven for digital data storage is free, and the external hard drive used for backup purposes is privately owned by the researcher. The storage of non-digital data in the lab at KU Leuven campus Brugge is also free. Therefore, the costs for data preservation during the expected retention period will be covered without any additional expenses.

6. Data Sharing and Reuse

<p>Will the data (or part of the data) be made available for reuse after/during the project? Please explain per dataset or data type which data will be made available.</p> <p><i>NOTE THAT 'AVAILABLE' DOES NOT NECESSARILY MEAN THAT THE DATA SET BECOMES OPENLY AVAILABLE, CONDITIONS FOR ACCESS AND USE MAY APPLY. AVAILABILITY IN THIS QUESTION THUS ENTAILS BOTH OPEN & RESTRICTED ACCESS. FOR MORE INFORMATION: HTTPS://WIKI.SURFNET.NL/DISPLAY/STANDARDS/INFO-EU-REPO/#INFOEUREPO-ACCESSRIGHTS</i></p>	<p><input checked="" type="checkbox"/> Yes, in an Open Access repository</p> <p><input type="checkbox"/> Yes, in a restricted access repository (after approval, institutional access only, ...)</p> <p><input type="checkbox"/> No (closed access)</p> <p><input type="checkbox"/> Other, please specify:</p>
<p>If access is restricted, please specify who will be able to access the data and under what conditions.</p>	<p>Access is only restricted for dataset: "Reference mixtures – Weber Saint Gobain"</p>
<p>Are there any factors that restrict or prevent the sharing of (some of) the data (e.g. as defined in an agreement with a 3rd party, legal restrictions)? Please explain per dataset or data type where appropriate.</p>	<p><input type="checkbox"/> Yes, privacy aspects</p> <p><input checked="" type="checkbox"/> Yes, intellectual property rights</p> <p><input type="checkbox"/> Yes, ethical aspects</p> <p><input type="checkbox"/> Yes, aspects of dual use</p> <p><input type="checkbox"/> Yes, other</p> <p><input type="checkbox"/> No</p> <p>If yes, please specify: In this study, a commercially available reference mixture provided by Weber Saint Gobain is utilized. Due to the presence of confidential information in the reference mixture, there will be limitations on the sharing of the research findings. To maintain confidentiality, the research team has signed a non-disclosure agreement with the company, and ensure that the dissemination of data and results does not violate the agreement.</p>

<p>Where will the data be made available? If already known, please provide a repository per dataset or data type.</p>	<p>Open access via publisher.</p>
<p>When will the data be made available?</p> <p><i>THIS COULD BE A SPECIFIC DATE (DD/MM/YYYY) OR AN INDICATION SUCH AS 'UPON PUBLICATION OF RESEARCH RESULTS'.</i></p>	<p>Upon publication of research results</p>
<p>Which data usage licenses are you going to provide? If none, please explain why.</p> <p><i>A DATA USAGE LICENSE INDICATES WHETHER THE DATA CAN BE REUSED OR NOT AND UNDER WHAT CONDITIONS. IF NO LICENCE IS GRANTED, THE DATA ARE IN A GREY ZONE AND CANNOT BE LEGALLY REUSED. DO NOTE THAT YOU MAY ONLY RELEASE DATA UNDER A LICENCE CHOSEN BY YOURSELF IF IT DOES NOT ALREADY FALL UNDER ANOTHER LICENCE THAT MIGHT PROHIBIT THAT.</i></p> <p><i>EXAMPLE ANSWER: E.G. "DATA FROM THE PROJECT THAT CAN BE SHARED WILL BE MADE AVAILABLE UNDER A CREATIVE COMMONS ATTRIBUTION LICENSE (CC-BY 4.0), SO THAT USERS HAVE TO GIVE CREDIT TO THE ORIGINAL DATA CREATORS."</i>⁸</p>	<p>During the research project, certain data may be made available to other researchers or the public for further research and reuse. The determination of which data will be made available and the specific terms of the license will be established in accordance with project funders, institutional policies, third-party agreements, and legal requirements. Our goal is to ensure that the data is as widely accessible as possible while appropriately crediting the original data creators and addressing any ethical, legal, or privacy concerns. Any sharable project data will be released under the Creative Commons Attribution License (CC-BY 4.0), which requires users to provide credit to the original data creators.</p>
<p>Do you intend to add a PID/DOI/accession number to your dataset(s)? If already available, please provide it here.</p> <p><i>INDICATE WHETHER YOU INTEND TO ADD A PERSISTENT AND UNIQUE IDENTIFIER IN ORDER TO IDENTIFY AND RETRIEVE THE DATA.</i></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes: The researcher intends to add persistent and unique identifiers, such as a DOI number, to the datasets that will be made available to the public. Although a DOI number is not available yet, it will be assigned to the dataset(s) in order to facilitate their identification and retrieval.</p>

⁸ Source: Ghent University Generic DMP Evaluation Rubric: <https://osf.io/2z5g3/>

What are the expected costs for data sharing? How will these costs be covered?	Data sharing costs are expected to be minimal for this project. The digital datasets will be made available through several channels, including publication in open access journals and presentations at conferences. The cost for publication in journals will be free since the papers will be published in open access journals. The only cost associated with data sharing will be for presenting the data at conferences, which will be covered by the project funding.
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7. Responsibilities

Who will manage data documentation and metadata during the research project?	All data documentation and metadata will be managed by the researcher. However, the researcher may collaborate with data specialists or librarians to ensure that the documentation and metadata are accurate, complete, and consistent with best practices.
Who will manage data storage and backup during the research project?	Data storage and backup during the research will be managed by the researcher.
Who will manage data preservation and sharing?	Data preservation and sharing will be managed by the researcher and promotor.
Who will update and implement this DMP?	The DMP will be updated and implemented by the researcher.