

# D1.4 Interim Data Management Plan

WP1 COORDINATE – PROJECT MANAGEMENT AND COORDINATION



## Document Information

<b>Grant Agreement Number</b>	101082068	<b>Acronym</b>	CIRC-BOOST
<b>Full Title</b>	Boosting the uptake of circular integrated solutions in construction value chains		
<b>Start Date</b>	1 <sup>st</sup> June 2023	<b>Duration</b>	48 months
<b>Project URL</b>	www.circboostproject.eu		
<b>Milestone</b>	N/A		
<b>Work Package</b>	WP1 – COORDINATE: project management and coordination		
<b>Date of Delivery</b>	<b>Contractual</b>	May 31 <sup>st</sup> 2025	<b>Actual</b> <b>Month Date 2025</b>
<b>Nature</b>	DMP – Data Management Plan	<b>Dissemination Level</b>	PU – Public
<b>Lead Beneficiary</b>	UPC		
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## Document History

Version	Issue Date	Stage	Description	Contributor
1.0	30.04.2025	First draft	1. First draft version	Albert de la Fuente Nikola Tošić
1.1	12.05.2025	First complete draft	1. First complete draft	UPC, CAP, FCE, UIT, SKA DRX, OFI, ACC, ABE
1.2	20.05.2025	First edit	1. Editorial changes	UPC, ABE

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## List of abbreviations

DMP – Data Management Plan

DPO – Data Protection Officer

GA – Grant Agreement

PSB – Project Supervisory Board

RCA – Recycled Concrete Aggregate

WP – Work Package

# 1 Executive summary

This document concerns deliverable D1.4 and the Interim Data Management Plan. The document describes the data management life cycle for all data sets that have been or will be collected, processed or generated by the action.

Based on the inputs received by month 24 of the project (May 2025) by all Work Package leaders, the deliverable summarizes specific aspects regarding management of data, such as the nature, traceability, accessibility and the reuse of data. It expands on how the data handling practices pursued within each Work Package support the achievement of the overall project objectives.

# 2 Introduction

## 2.1 Circ-Boost at a glance

Circ-Boost aims to become a focal point and interaction node for different emerging technologies to foster circularity in buildings and the construction sector. The overall objective of the project is to enable and demonstrate an increase in the large-scale uptake of integrated circular solutions (ICS) in the European construction value chains demonstrated through five large scale pilots. The project's core consists of five pilot projects, deployed in different European regions, highlighting and demonstrating at large scale novel and integrated solutions for demolition, construction waste processing, management, and valorisation in new products. Transversal activities of digitalization will allow collaboration between the pilot projects and more efficient use of digital tools and platforms.

Targeted activities are envisioned for boosting and maximising the pilot projects' commercial and business potential through effective exploitation measures. Furthermore, in order to ensure that the solutions demonstrated will actually be adopted by the industry, the project will support construction and design companies in educating and training their workforce to optimally use the new technologies as part of training activities. The Circ-Boost project will also leverage the partners' existing regional and international networks and connect with new networks, initiatives, and projects to disseminate and compare project results with a wide audience of construction stakeholders increasing the overall uptake potential of circular solutions. Finally, tailor-made communication and dissemination measures will further support the dissemination of project results with policy makers, and European-wide construction industry, as well as the promotion of the project's success.

## 2.2 Purpose of this document

Deliverable D1.4 represents the Interim Data Management Plan (DMP) that aims to describe the data management life cycle for all data sets that have been or will be collected, processed or generated by the action. It is a document describing what data have been or will be collected, processed or generated and following what methodology and standards, whether and how this data will be shared and/or made open, and how it will be curated and preserved.

Based on the inputs received by month 24 of the project (May 2025) by all Work Package (WP) leaders, the deliverable summarizes specific aspects regarding management of data, such as the nature, traceability, accessibility and the reuse of data. It, expands on how the data handling practices pursued within each Work Package support the achievement of the overall project objectives.

This document is based on the Guidelines on FAIR Data Management in Horizon 2020 and the Open Research Europe Data Guidelines. During the lifetime of the project, the deliverable must be revised once more at the end of the project to reflect changes occurring during the remaining project execution period.

## 2.3 Data management within project management

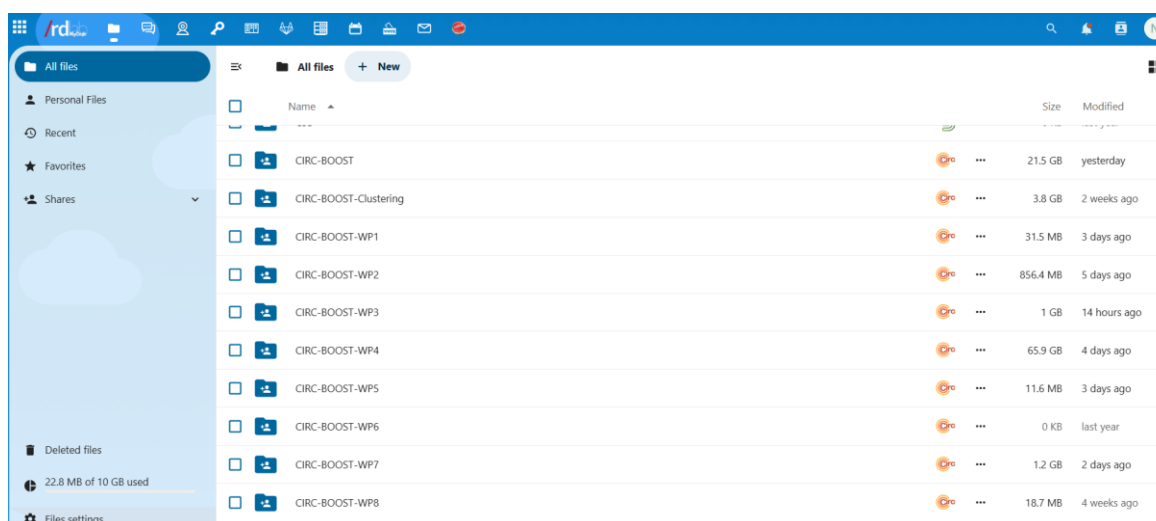
The General Assembly of the Circ-Boost consortium appointed in M5 (October 2024) a Data Protection Officer (DPO) for the project, Table 1. The DPO was tasked with preparing the initial DMP (deliverable D1.2, M6), setting out all the rules regarding data management, monitoring the implementation of the DMP and coordinating with WP leaders and the Project Supervisory Board (PSB).

**Table 1 – Data management roles in Circ-Boost**

Role	Name	Beneficiary	Email
<b>Data Protection Officer</b>	Nikola Tošić	UPC (Coordinating institution)	<a href="mailto:nikola.tosic@upc.edu">nikola.tosic@upc.edu</a>

In Circ-Boost, MyDisk, a proprietary solution developed by UPC for the coordination and management of large-consortium projects, has been selected as the internal project communication tool and collaborative

platform. All Circ-Boost partners have been granted access to the chosen communication tool (MyDisk). The collaborative platform is composed of groups for each WP within which there are private and public folders, Figure 1. Members are selected based on their participation in WPs.



**Figure 1 – MyDisk platform for data sharing and collaborative work**

## 3 FAIR Data

### 3.1 Making data findable, including provisions for metadata

Before any publication, data will first be stored in the offices and computers of the partner generating the data. All hardcopies will be stored in the corresponding partners' offices. Electronic data will be stored on the partners' computers, as well as the collaborative platform [MyDisk](#) enabling daily backup. Data security and confidentiality will be ensured through private authentication.

As the second step, all data produced within the Circ-Boost project will be deposited in the UPC institutional repository UPCommons (<https://upcommons.upc.edu/>), which complies with OpenAIRE for both publications and datasets. UPC's institutional repository collects, manages, disseminates and preserves the UPC's teaching and research outputs, mainly in open access, but also in closed form for confidentiality or other justified reasons.

Within the Circ-Boost project, generated data will be divided into “public” and “confidential”. The former will comprise information that can be published after an informed decision regarding disclosure is made. The final decision on the public data to be published from the first reporting period is pending its approval. The latter data type (“confidential”) will contain information whose dissemination shall be restricted, such as license rights, confidentiality reasons, or because it is sensitive or personal.

Within UPCommons, “Research Data UPC” (<https://upcommons.upc.edu/dades>) hosts research data related to publications (journal articles, etc.) or to a research project (e.g., Horizon Europe). In Research Data UPC, files will be stored in locked and unlocked forms for public and confidential data, respectively. To ensure direct access to the data, a DOI will be provided for each dataset hosted in UPCommons.

The metadata standard used to describe the dataset will be the Dublin Core Schema (<https://dublincore.org/schemas/>), as it is a flexible and commonly used standard which is also adopted by the European OpenAIRE repository. When deposited, each entry will be accompanied by adequate keywords.

## 3.2 Making data openly accessible

The UPCommons institutional repository of the UPC also allows the data to be openly accessible. UPCommons provides the possibility of linking data to associated scientific publications and it guarantees interoperability with OpenAIRE projects, and offers a DOI as a persistent and unique identifier for each set of data.

Within UPCommons, it is possible to choose between different licenses and restrictions of access to data (closed, restricted, or with an established embargo period). Using UPCommons, and when no embargo period applies, if data is marked as public, it will be made openly available.

If data is generated by partners outside of the project work plan, or if its use and access is to be restricted by intellectual property rights, or if it contains confidential information, the data will be kept closed.

As mentioned above, public access to data will be made available by means of one or more UPCommons OpenAIRE datasets, as UPCommons will automatically be harvested by OpenAIRE. All data will be fully accessible thanks to the included metadata and the search facility available in UPCommons. Interested users will find out about the data through project publications, project dissemination channels such as the project website and UPCommons. Wherever necessary, adequate instructions, explanations and manuals will be included to make the data more easily understood and reusable.

## 3.3 Making data interoperable

In order to enable and facilitate the interoperability of the data generated within the project, the Dublin Core standard will be adopted.

The data will be properly structured using the concepts and terms inherent to the methodology involved in the project. To this end, standard metadata vocabularies from the ISO 15836-1:2017 Information and documentation - The Dublin Core metadata element set will be used to deploy an internal metadata system, the implementation of which will be updated with any custom entry required by the project ([https://wiki.icaci.org/index.php?title=ISO\\_15836:2009\\_Information\\_and\\_documentation\\_-\\_The\\_Dublin\\_Core\\_metadata\\_element\\_set](https://wiki.icaci.org/index.php?title=ISO_15836:2009_Information_and_documentation_-_The_Dublin_Core_metadata_element_set)).

## 3.4 Increase data re-use (through clarifying licenses)

All the data generated and published within the Circ-Boost project is expected to provide long-term value and this DMP aims at enabling and facilitating its proper sharing and preservation. In particular, the data will be available to for reuse by all researchers related to areas covered by the project: civil engineering, environmental engineering, construction, computational mechanics, etc. At the same time, before publication, data stored at the partners' offices, computers and MyDisk collaborative platform will be reusable only by project partners.

# 4 Data security

In order to guarantee the proper storage of the generated data, the collaborative platform MyDisk, developed by UPC will be used. All files containing confidential data will be protected by the owners using local encryption tools, such as password protected archives, before being uploaded to shared repositories. In addition, a local backup mechanism will be implemented during the project to preserve the data covered by this DMP. The server hosting the tools will be accessible only to authorized system administrators. The storage of the dataset within the UPCommons repository will provide support for its correct duplication and preservation.

Therefore, both the UPCommons and the local storage system will ensure full compliance to with the general obligation of confidentiality, during the implementation of the action and for four years after the period set out in the GA.

National and EU legislation will be respected for all aspects of data collection, storage, protection, retention and destruction. In particular, the ethical aspects related to data collected in this dataset are addressed in the Ethics and Research Integrity requirements stipulated by the GA.

The beneficiary commits to respect the highest standards of research integrity as set out, for instance, in the European Code of Conduct for Research Integrity ([https://ec.europa.eu/research/participants/data/ref/h2020/other/hi/h2020-ethics\\_code-of-conduct\\_en.pdf](https://ec.europa.eu/research/participants/data/ref/h2020/other/hi/h2020-ethics_code-of-conduct_en.pdf)). This implies compliance with the following essential principles: honesty; reliability; objectivity; impartiality; open communication; duty of care; fairness and responsibility for future science generations.

## 5 Data Summary

### 5.1 Identification of types of data

Under the GA, “*Results*” refers to “any (tangible or intangible) output of the action such as data, knowledge or information - whatever its form or nature, whether it can be protected or not - that is generated in the action, as well as any rights attached to it, including intellectual property rights.”

Within the scope of the Circ-Boost project, data includes theoretical and experimental results (in the form of short reports, raw measurement data, laboratory and field reports, scientific publications, presentations and books), as well as software codes and simulation results.

In more detail, two types of data will be involved in the Circ-Boost project:

1. **Data that is already available that is or will be reused.** This type of data includes:
  - a. Scientific publications, books and reports indexed in scientific databases (such as Scopus and Web of Science)
  - b. Experimental data from other researchers (available through open access, and reusable under an appropriate copyleft license)
  - c. Open-source and commercial software (available through repositories such as [www.GitHub.com](http://www.GitHub.com) or through commercial licenses)

In all these cases, reuse of data will always be done acknowledging and respecting the conditions of authors, publishers and right holders in general, following the conditions included in their licenses, or under express authorization of the right holders.

2. **Data that has been or will be generated within the project.** This type of data includes:
  - a. Theoretical findings/analytical calculations which are stored in .pdf, .docx, .xlsx, .pptx formats (reports, publications, calculation sheets, presentations). The size of these data types is in the order of megabytes (MBs).
  - b. Experimental laboratory/field measurements which are stored in .xlsx, .txt, .jpeg, .pdf, .ppt formats (raw measurement data, photos, reports, presentations). The size of these data types is in the order of MBs or gigabytes (GBs).

Software code and simulation files/scripts which are expected to be stored in .txt, .cpp, .py and .m formats (C++, Python and MATLAB files). The size of these data types is in the order of kilobytes (KBs).

## 5.2 Overview of datasets in Circ-Boost

This section summarizes the inputs delivered by the Circ-Boost WP leaders, considering the datasets used. It presents the type, origin, format and size of data, as well as the purposes of data collection, accessibility and privacy measures to the extent relevant. Furthermore, it sets out how the data management is related to the objectives.

WP	WP1	WP2	WP3	WP4	WP5	WP6	WP7	WP8
Partner	UPC	CAP	FCE	FCE	DRX	OFI	ACC	ABE

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Datasets</p>	<ol style="list-style-type: none"> <li>1. Circ-Boost Contact List</li> <li>2. Partner banking information</li> </ol>	<ol style="list-style-type: none"> <li>1. Stakeholder contact lists maintained by each project partner</li> <li>2. Stakeholder lists excluding sensitive personal data (e.g., emails, phone numbers)</li> <li>3. Lists of events WP2/WP8</li> </ol>	<ol style="list-style-type: none"> <li>1. Pilot 1 soil decontamination trials</li> <li>2. Pilot 1 prototype design</li> <li>3. Pilot 2: PEMD audits data</li> <li>4. Pilot 3 house prototype design</li> <li>5. Pilot 3 house precast concrete connections experimental testing</li> <li>6. Recycled concrete aggregate mix design, testing and industrial production methodology</li> <li>7. Pilot 3 house steel elements and connections experimental results</li> <li>8. Pilot 4 assessment of concrete of demolition site</li> <li>9. Pilot 4 Museum design and material quantities</li> <li>10. RCA properties</li> <li>11. Concrete with RCA mix design and properties</li> <li>12. Pilot 5 material design tables</li> </ol>	<ol style="list-style-type: none"> <li>1. Point Cloud (PC) Dataset (LiDAR scanning)</li> <li>2. Orthophoto Dataset (Aerial photogrammetry)</li> <li>3. CityGML LoD3 building models</li> <li>4. BIM models</li> <li>5. Building Material and Component Catalog</li> <li>6. Circularity Potential of Building Materials Dataset</li> </ol>	<ol style="list-style-type: none"> <li>1. Pilot-specific data for e-LCA from pilots</li> <li>2. Secondary data for e-LCA: EPDs, ecoinvent, literature</li> <li>3. e-LCA inventory: Integrated data from pilots, ecoinvent and publications</li> <li>4. Results e-LCA: Lifecycle Impact Assessment of Circ-Boost solutions and baselines</li> <li>5. Pilot-specific cost data for LCC from pilots</li> <li>6. Average country/sector cost data for LCC</li> <li>7. LCC inventory: Integrated cost data from pilots, economic databases, market research and publications</li> <li>8. LCC Costing Assessment of Circ-Boost solutions and baselines</li> <li>9. Social data for s-LCA from pilots</li> <li>10. Secondary data from SHDB</li> </ol>	<ol style="list-style-type: none"> <li>1. Information on pilots' value chain activities</li> </ol>	<ol style="list-style-type: none"> <li>1. Training actions monitoring</li> <li>2. D 7.1 Training guidance for pilots training development</li> <li>3. Pilots' trainings</li> </ol>	<ol style="list-style-type: none"> <li>1. Circ-Boost Contact List</li> <li>2. Google Analytics report</li> </ol>
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			13. Pilot 5 laboratory test results		database and publications  11. Social Life Cycle Assessment of Circ-Boost solutions			
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Data types	<ol style="list-style-type: none"> <li>1. Email addresses and names of project partners</li> <li>2. Aggregated data of banking information (partner's account holder's name, IBAN/Account number, BIC/SWIFT code, name of the bank, branch address, name and address of the account holder).</li> </ol>	<ol style="list-style-type: none"> <li>1. Organisation names</li> <li>2. Event names and dates</li> <li>3.   <span style="margin-left: 100px;">Gene</span> ral stakeholder categories (e.g., academia, industry, public sector)</li> </ol>	<ol style="list-style-type: none"> <li>1. Soil analyses of hydrocarbons, heavy metals and pesticides</li> <li>2. Dimensions and material quantities</li> <li>3. PEMD audits data &gt; Data from submitted regulatory audits listing available reusable materials (+ recoverable waste) and their quantities, for buildings demolition and renovation operations + the project outcome.</li> <li>4. House design, dimensions and material quantities for pilot house elements made with concrete, steel, brick and rubber.</li> <li>5. Demountable connector testing in-air for force-displacement behaviour and in push-out test for shear strength.</li> <li>6. Testing physical and mechanical properties of recycled concrete aggregate, natural aggregate and concretes made</li> </ol>	<ol style="list-style-type: none"> <li>1. Spatial data (X, Y, Z coordinates), Object classification (ground, buildings, trees, etc.)</li> <li>2. Aerial Images</li> <li>3. Geometric data (3D building geometry), Semantic data (building typology, material types and quantities, CE indicators)</li> <li>4. Parametric data (dimensions, materials, components), Building elements (walls, floors, systems)</li> <li>5. Catalogue of building elements and material types with corresponding material intensity coefficients</li> <li>6. Structured, qualitative, and categorical recommendation data about building material reuse and recycling potential.</li> </ol>	<ol style="list-style-type: none"> <li>1. Research data (material &amp; energy inputs/outputs, transport)</li> <li>2. Research and calculated data (environmental data from publications, EPDs, ecoinvent database)</li> <li>3. Research data (integration of data to inventory)</li> <li>4. Generated data (e-LCA results)</li> <li>5. Research data (lifecycle costs of inputs &amp; outputs)</li> <li>6. Research data (aggregated data of country/sector costs e.g. statistics, databases)</li> <li>7. Research data (integration of data to LCC inventory)</li> <li>8. Generated data (LCC results)</li> <li>9. Research data (data on stakeholders mapping per pilot)</li> <li>10. Research and calculated data (social data, and indicators from SHDB)</li> </ol>	<ol style="list-style-type: none"> <li>1. A document that contains information for each of the 9 activities (i.e., Inbound Logistics, Operations, Outbound Logistics, Marketing &amp; Sales, After-Sales Services, Firm infrastructure, HR Management, Technology Development, Procurement) of the Value chain of each pilot</li> </ol>	<ol style="list-style-type: none"> <li>1. Carried training descriptions</li> <li>2. A document that provides a step by step, experience-based guideline that describes how to address trainings and workshop for industry workforce and other key stakeholders.</li> <li>3. Specialized training sessions from some of the pilots that already started with training actions</li> </ol>	<ol style="list-style-type: none"> <li>1. Email addresses of project partners, organisation name and location, job title, gender and photo.</li> <li>2. Basic pageviews, visit data such as device type, operating system, location and browser type.</li> </ol>
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		<p>with those aggregates.</p> <p>7. Results of real-scale testing of demountable steel-column frame connection.</p> <p>8. Quality and quantity of concrete in demolition object</p> <p>9. design of the object with reused and recycled material</p> <p>10. Properties of RCA</p> <p>11. Design and testing of concrete with RCA</p> <p>12. Input material inputs, prices, dosages, processing parameters (mixing times, temperature, curing); Construction designs of structures, statical assessments, recommendations</p> <p>13. Durability and mechanical results from own laboratories and from UCEEB laboratories</p>		<p>11. Generated data (sLCA results)</p>			
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<b>Data formats</b>	.xlsx	1. xlsx 2. .docx	1. xlsx 2. .docx 3. csv 4–7. xlsx 8. xlsx, docx 9. ifc 10. xlsx, docx 11. xlsx 12–13. xlsx, docx	1. laz 2. tif 3. gml 4. ifc 5. xlsx 6. xlsx	1. xlsx 2. pdf, zolca, docx 3. xlsx 4. xlsx 5. xlsx 6. xlsx, pdf 7. xlsx 8. xlsx 9. xlsx 10. xlsx 11. xlsx, zolca	1. docx, pptx	1 xlsx 2 docx 3 pptx, pdf, mp4	1. xlsx 2. Google collects data through short lines of JavaScript or HTML code called tags.
<b>Expected size</b>	A few KB	A few KB	1–4. A few MB 5–7. A few GB 8–11. A few MB 12–13. A few GB	1. >50GB 2. 4GB 3. >1 GB 4. >200 MB 5. A few MB 6. A few MB	1. A few MB (pilot data) 2. GB (databases) 3. A few MB 4. A few MB 5. A few MB 6. A few MB 7. A few MB 8. A few MB 9. A few MB 10. A few MB 11. A few MB, GB (databases)	1. A few MB	1–3. A few MB	1. Under 1 MB 2. Under 100 MB

Standards	Not applicable/relevant	Not applicable/relevant	Not applicable/relevant	<ol style="list-style-type: none"> <li>1. ASPRS</li> <li>2. Not applicable/relevant</li> <li>3. CityGML LOD3 standard</li> <li>4. IFC standard</li> <li>5. Not applicable/relevant</li> <li>6. Not applicable/relevant</li> </ol>	Not applicable/relevant	Not applicable/relevant	Not applicable/relevant	Not applicable/relevant
Data origin	Collected from project partners	Collected from project partners	<ol style="list-style-type: none"> <li>1. Field trials and analytics</li> <li>2. Internal project design</li> <li>3. Platform PEMD : regulatory platform developed and managed by CSTB (internal analysis)</li> <li>4. Internal project design</li> <li>5–7. Laboratory testing</li> <li>8. Field analysis</li> <li>9. Internal project design</li> <li>10. Laboratory testing</li> <li>11. Design by UiT</li> <li>12–13. Own data</li> </ol>	<ol style="list-style-type: none"> <li>1. In-situ collected</li> <li>2. In-situ collected</li> <li>3. Internal project design</li> <li>4. Internal project design</li> <li>5. Internal project developed based on the national typology data</li> <li>6. Internal Project developed Based on Local and Global Best Practices</li> </ol>	<ol style="list-style-type: none"> <li>1. Collected from project partners</li> <li>2. Re-used from databases and literature</li> <li>3. Combination of 1&amp;2</li> <li>4. Generated</li> <li>5. Collected from project partners</li> <li>6. Re-used from databases and literature</li> <li>7. Combination of 5&amp;6</li> <li>8. Generated</li> <li>9. Collected from project partners</li> <li>10. Re-used from databases and literature</li> <li>11. Generated</li> </ol>	1. Collected from project partners	1. Collected from project partners	<ol style="list-style-type: none"> <li>1. Data collected from the partners, with their consent on appropriate usage.</li> <li>2. Google Analytics acquires user data from each website visitor through page tags. A JavaScript page tag, inserted into the code of each page, helps generate data such as the number of users, bounce rates, average session duration, sessions by channel, page views, etc.</li> </ol>

Data reuse	No reuse	No reuse from external sources	No reuse	<p>Reuse Possibilities:</p> <p>1-3. Urban planning and analysis, line-of-sight mapping, land use analysis, energy modeling</p> <p>4. As training datasets for Machine Learning models</p> <p>5-6. Future research, policymaking, and educational activities related to circular economy in the built environment</p>	No reuse	No reuse	No reuse	No reuse
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Data uses	<p>1. For the purposes of project management</p> <p>2. For the financial management of the project</p>	<p>1. To support the organisation of project-related events and workshops</p> <p>2. For stakeholder engagement and communication</p> <p>3. To identify potential collaborators within and beyond the project</p>	<p>1. For the purposes of soil decontamination technique validation</p> <p>2. For the purposes of modular building prototype development</p> <p>3. Statistics about materials reuse and recovery according to building type, projects type, region</p> <p>4. For the purposes of modular house prototype development</p> <p>5. For the purposes of demountable connection design</p> <p>6. For the purposes of recycled aggregate concrete design for Pilot 3 house concrete elements</p> <p>7. For the purposes of reused steel moment-resistant frame for Pilot 3 house prototype validation</p> <p>8. For demolition activity and production of RCA</p> <p>9. Connecting construction to</p>	<p>1-3. For the purposes of the CE map development</p> <p>4. For the purposes of the CE map validation</p> <p>5-6. For the purposes of the CE map development</p>	<p>1–4: For the purposes of eLCA study</p> <p>5–8: For the purposes of LCC study and CBA</p> <p>9–11: For the purposes of sLCA study</p>	<p>1. For the purposes of value chain analysis (project task)</p>	<p>1. For the purposes of project training monitoring</p> <p>2. To be a guideline for project partners</p> <p>3. For training in the new techniques and methodologies used within the project</p>	<p>1. For the WP &amp; Communication coordination purposes</p> <p>2. For Communication &amp; Dissemination impact reporting</p>
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			<p>demolition by reuse and recycling</p> <p>10. Industry</p> <p>11. Industry</p> <p>12. Development of new mixtures and elements.</p> <p>13. To verify long-term and durability properties of mixtures, which are developed in pilot</p>					
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<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Accessibility</p>	<p>1. Sensitive – the data is only accessible to the project members through the MyDisk Plafrom.</p> <p>2. Confidential – the data is only accessible by the Coordinator’s Project Management Team</p>	<p>1. Access to stakeholder lists is restricted to relevant project partners and adheres to GDPR regulations</p> <p>2. Sensitive data (e.g., personal contact information) is stored and managed separately, with appropriate data protection measures in place</p>	<p>1. Sensitive – the data is only accessible by directly involved Pilot 1 partners</p> <p>2. Sensitive – the data is only accessible by directly involved Pilot 1 partners</p> <p>3. PEMD audits data &gt; might be accessible on demand (clustering and anonymization necessary)</p> <p>4–7. Sensitive – the data is only accessible by directly involved Pilot 3 partners</p> <p>8–9. Sensitive – the data is only accessible by directly involved Pilot 4 partners</p> <p>10–11 Freely accessible data</p> <p>12–13. Sensitive – the data is only accessible by directly involved Pilot 5 partners</p>	<p>1-4. Available upon request.</p> <p>5. Embedded in the web-based CE map solution and public available</p> <p>6. Embedded in the web-based CE map solution and public available</p>	<p>1. Confidential data (provided by pilot and only accessible by DRAXIS)</p> <p>2. Open data (EPD, literature) &amp; Confidential (ecoinvent)</p> <p>3. Confidential data (only accessible by DRAXIS)</p> <p>4. Open data (publishable results)</p> <p>5. Confidential data (provided by pilot and only accessible by DRAXIS)</p> <p>6. Open data (e/g statistics, open databases)</p> <p>7. Confidential data (only accessible by DRAXIS)</p> <p>8. Open data (publishable results)</p> <p>9. Confidential or open data</p> <p>10. Confidential data (only accessible by DRAXIS)</p> <p>11. Open data (publishable results)</p>	<p>1. Sensitive – the data is only accessible by directly involved WP6 partners</p>	<p>1. Sensitive - the data is only accessible to the project members through the MyDisk Plafrom</p> <p>2. Public</p> <p>3. Sensitive - the data is only accessible to the project members through the MyDisk Plafrom</p>	<p>1. Sensitive – data is only accessible to project partners in a members-only repository</p> <p>2. Confidential – data is only accessible to the project’s Communication &amp; Dissemination leader</p>
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<b>Data protection</b>	<p>Restricted access to nominated individuals.</p> <p>The data will be kept only for the project purpose and deleted after the distribution of the very last payment.</p>	<p>Restricted access to nominated individuals.</p>	<p>Restricted access to nominated individuals.</p>	<p>Since no personal or sensitive data is included, standard secure storage protocols will be applied to protect the integrity and intellectual property of the datasets. Row data access will be limited to authorized users.</p>	<p>Restricted access to nominated individuals for the confidential data as indicated above</p> <p>Publicly available for open data</p>	<p>Restricted access to nominated individuals.</p> <p>The data will be kept only for the project purpose and deleted after the distribution of the very last payment.</p>	<p>Data will be available at least 1 year after the project finishes</p>	<p>1. Data is securely stored in the repository set up by UPC, available upon log in process that verifies the user's identity.</p> <p>2. Google deploys its own data security protocols in order to ensure data protection and storage.</p>
<b>Remarks</b>	<p>1. N/A</p> <p>2. This data will be used to distributing funds received by the Commission.</p>	<p>List of stakeholders (names of organisation) will be used for reports</p>	N/A	N/A	N/A	N/A	N/A	N/A

## 6 Allocation of resources

The DMP described in this document is based on open-source and free resources. Hence, the only costs foreseen for making the generated data FAIR and for its long-term preservation are related to the hardware required to store it and the working time needed to setup, maintain and develop the different tools required.

As UPCommons is the institutional repository of UPC, it will be used for long-term preservation, and no related costs will be reflected on the project budget, but eventual subsequent resources required to make the generated data publicly available have been included within the project budget, as well as the MyDisk collaborative platform.

The Circ-Boost DPO and Coordinator will monitor the proper execution of the plan and will be responsible for the operationalization of the DMP.

## 7 Ethical aspects

Compliance with ethical principles and applicable international, EU and national law in the implementation of research activities not originally envisaged (or not described in detail) in the DoA will be ensured. The Consortium also confirms that any ethical concerns raised by those activities will be handled following rigorously the recommendations provided in the European Commission Ethics Self-Assessment Guidelines.

## 8 Other issues

Data Management will comply with the institutional open access policy (see [https://biblioteca.upc.edu/sites/default/files/pagines\\_generals/coneix/mandat-eng.pdf](https://biblioteca.upc.edu/sites/default/files/pagines_generals/coneix/mandat-eng.pdf)), as well as with Spanish (<http://www.ucm.es/BUCM/boletin/bibliotecario/01/acceso.pdf>) and European OpenAIRE (<https://guidelines.openaire.eu/en/latest>) standards and recommendations.

## 9 Further support in developing the DMP

All project partners will follow their institutional and national procedures for data management, in addition to this DMP.

**End of Document**