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MODABAT

A Clean Aviation Project

# D6.3 – Data Management Plan

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| **Lead Author** | Martin Wenger | FHG | |
| **Contributing Author(s)** | *Marcel Pfeiffer, Marcus Depenbusch (K&S)* | | |
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| | | |
| | | |


### Abstract

This deliverable outlines a comprehensive data management framework for the project, covering all stages from initial data identification to ethical considerations. Early identification of data types, sources, formats, and responsibilities provide a structured foundation for subsequent collection, storage, processing, and preservation activities.

A central element of the framework is adherence to the FAIR principles—Findable, Accessible, Interoperable, and Reusable—ensuring transparency, maximizing the value of generated data, and supporting future reuse by both project partners and the wider research community. The structured metadata registry, using standard schemas and controlled vocabularies, further enhances documentation, discoverability, and interoperability of datasets beyond the project's duration.

Ethical and legal requirements, including data protection and privacy, are integrated throughout all data handling activities to ensure responsible use. This framework will remain a living document, continuously refined as needed, with the final Data Management Plan scheduled for delivery in Month 24.



### Keywords

Data Management, FAIR Principles,



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## Information Table

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## Partners involved in the document

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| 1 | COO | FRAUNHOFER GESELLSCHAFT | FHG | X |
| 2 | BEN | COLLINS AEROSPACE IRELAND Ltd. | COL | X |
| 3 | BEN | SOLiTHOR BV | SOL | X |
| 4 | BEN | TECHNISCHE UNIVERSITEIT DELFT | TUD | X |
| 5 | BEN | THE UNIVERSITY OF NOTTINGHAM | UNOTT | X |
| 6 | BEN | STICHTING KONINKLIJK NEDERLANDS LUCHT | NLR | X |
| 7 | BEN | AXTER AEROSPACE SL | AXT | X |
| 8 | BEN | K & S GMBH PROJEKTMANAGEMENT | KS | X |
| 9 | BEN | UNIVERSITAT POLITECNICA DE VALENCIA | UPV | X |
| 10 | ASC | AVIONS DE TRANSPORT REGIONAL | ATR | X |

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## Table of Acronyms and Abbreviations

| Acronym/Abbreviation | Description / Meaning |
|---|---|
| **BESS** | Battery Energy Storage System |
| **CA** | Consortium Agreement |
| **DMP** | Data Management Plan |
| **DoA** | Description of Action |
| **GA** | Grant Agreement |
| **GDPR** | General Data Protection Regulation |
| **IPR** | Intellectual Property Rights |
| **WP** | Work Package |
| **WPL** | Work Package Lead |
| **WPLB** | Work Package Leader Board |
| **DOI** | Digital Object Identifier |
| | |
| | |

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# 1 INTRODUCTION

MODABAT is a technology-driven project where data will be collected, processed and generated. While data is not the central focus, it supports overall project goals and facilitates information synchronization between work packages and partners. Overall data management will be coordinated within WP6, Task 6.3 ("Data Management") led by FHG and will relate to all MODABAT objectives. All partners are experienced in applying FAIR data principles.

Due to MODABAT's commercially sensitive nature, not all generated data can be made publicly available without compromising partner interests. Nevertheless, data management remains a high priority and will be carried out rigorously. Data handling in the project is further regulated in the Consortium Agreement [1] and Grant Agreement [2], while oversight is provided by the project coordinator (FHG).

Currently it is not planned to process personal data, except for project administration (e.g., contact details). If this changes, appropriate measures will be taken promptly. This Data Management Plan (DMP) is a “living document” and will be regularly updated. Project partners will observe and comply with all applicable legal provisions regarding data protection, including the GDPR (Regulation (EU) 2016/679), within the context of data management.

During project proposal preparation, a data management process was initially defined. For D6.3, this plan will be further elaborated, following the structure of the Horizon Europe Data Management Plan Template [3]. This plan will define methods and standards, data handling procedures, data types, open access policies and adherence to the FAIR principles as well as data security.

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# 2 DATA SUMMARY

## 2.1 Initial Data Identification

A critical first step in establishing the MODABAT DMP involved the systematic identification of generated and processed data across all consortia partners. All partners were requested to provide an overview of data created within their respective work packages. This initial inventory serves as the foundational base for further elaboration and specification of the DMP. Accurate identification is essential for defining appropriate data handling procedures, ensuring data security and enabling open access in compliance with FAIR principles.

Feedback collected from each partner is recorded in a central register. This register will be further developed in a second step to function as a centralized map detailing metadata. This map will support data sharing and collaboration within the consortium.

The following information is tracked within the register:

- Responsible Partner
- Data Owner
- Work Package
- Dataset Name
- Data Description
- Primary Data Type
- Data Format
- Related BESS Component
- Access and Confidentiality Level
- Storage and Repository Information
- Link to Location

This detailed information allows for comprehensive data tracking, including partner, work package, dataset name, description, primary data type, format, relevant battery energy storage system (BESS) component, access level, storage location, and a link for direct access where appropriate. The register will serve as a dynamic resource throughout the project lifecycle to support effective data management.

## 2.2 Data Types

This chapter details the structure and characteristics of the datasets collected throughout this project. Recognizing the importance of well-defined datasets for analysis and reproducibility. This chapter provides a comprehensive overview of data types, data formats and data usage.

### 2.2.1 Deliverables

Project deliverables will be provided in PDF format and are aligned with the Description of Action outlined in the GA [2]. Public deliverables are freely available for download via the MODABAT website ("Disseminations"). Deliverables marked as “sensitive” will not be publicly shared. Upon partner agreement, executive summaries may also be published online.

All deliverables are stored in the MODABAT SharePoint, accessible to all project partners. This ensures secure access to documents. Deliverables will be clearly marked to indicate their sensitivity, enabling appropriate handling. This system ensures transparency in dissemination while protecting sensitive information.

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### 2.2.2 Promotional Material and Videos

Promotional materials – including flyers, public presentations and other dissemination materials – developed during Task 5.1 (Dissemination & Communication) will be made available for download on the MODABAT website ("Dissemination") in PDF format. All partners can further access these materials via SharePoint

Videos produced for dissemination and communication activities during Task 5.1 will be published on the MODABAT website and across social media platforms (e.g., LinkedIn) in MP4 format. These videos will also be accessible via SharePoint to all project partners.

### 2.2.3 Dissemination and Communication Activities

Data from dissemination and communication activities will be used for regular monitoring within Task 5.1. This internal monitoring and reporting includes tracking of planned and performed activities – such as publications, conference presentations and social media posts. A detailed overview is provided in D5.1 "Dissemination & Exploitation Strategy" due in M6 [3]. All partners are required to report dissemination and communication activities in the central publication register (.xlsx format)

### 2.2.4 Publications

MODABAT adheres to open access provisions outlined in the CA [1] and GA [2]. All publications must be made available via gold or green open access. These publications will also be tracked via the MODABAT central publication register.

### 2.2.5 Technical Reports

These documents will include detailed reports on experimental methodologies, system specifications, performance evaluations, and analysis results. Technical reports will be produced periodically to document the progress of the project, summarize findings, and ensure transparency in the methodologies used. These reports will also support internal and external reviews, ensuring that the project remains aligned with its objectives.

#### *2.2.5.1 TR Containment and Venting Safety Assessment*

| | |
|---|---|
| **Data Description** | TR Containment and Venting Safety Assessment |
| **Data Format** | Doc |
| **Related BESS Component** | Thermal Runaway Containment and Venting |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | project repository |
| **Link** | project repository |

#### *2.2.5.2 EMS control logic*

| | |
|---|---|
| **Data Description** | Diagrams with logic explained |
| **Data Format** | Doc |
| **Related BESS Component** | EMS |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | project repository |
| **Link** | project repository |

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#### *2.2.5.3 Thermal propagation tests*

| | |
|---|---|
| **Data Description** | test data of thermal propagation tests |
| **Data Format** | PDF |
| **Related BESS Component** | Thermal Runaway Containment and Venting |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | project repository |
| **Link** | project repository |

#### *2.2.5.4 Containment tests*

| | |
|---|---|
| **Data Description** | test data of containment tests |
| **Data Format** | PDF |
| **Related BESS Component** | Thermal Runaway Containment and Venting |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | project repository |
| **Link** | project repository |

#### *2.2.5.5 BESS experimental validation*

| | |
|---|---|
| **Data Description** | Report based on data registered from validation test of BESS |
| **Data Format** | PDF |
| **Related BESS Component** | Battery System |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | project repository |
| **Link** | project repository |

### 2.2.6 Engineering and Design Data

This data provides specifications for the project's hardware components and system integration.

#### *2.2.6.1 Requirements Breakdown*

| | |
|---|---|
| **Data Description** | Requirements Breakdown |
| **Data Format** | Xls |
| **Related BESS Component** | BESS |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | project repository |
| **Link** | project repository |

#### *2.2.6.2 Module Containment CAD model*

| | |
|---|---|
| **Data Description** | 3D model of the containment box for the modules |
| **Data Format** | STEP |
| **Related BESS Component** | Containment |
| **Access and Confidentiality Level** | Confidential - not shareable outside organization |
| **Storage and Repository Information** | institutional storage |
| **Link** | institutional storage |

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#### *2.2.6.3 FEM and FEA model for containment analysis*

| | |
|---|---|
| **Data Description** | Structural models for containment box design and analysis |
| **Data Format** | TBD |
| **Related BESS Component** | Containment |
| **Access and Confidentiality Level** | Confidential - not shareable outside organization |
| **Storage and Repository Information** | institutional storage |
| **Link** | institutional storage |

### 2.2.7 Software and Algorithms (Source Code)

The project will generate various source codes, which will be used for controlling systems, processing raw data, and performing simulations.

#### *2.2.7.1 Trained diagnostic/prognostic model*

| | |
|---|---|
| **Data Description** | File containing the parameters of the trained diagnostic/prognostic model |
| **Data Format** | npz/json |
| **Related BESS Component** | BMS Master |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | project repository |
| **Link** | project repository |

#### *2.2.7.2 Battery Cell Model*

| | |
|---|---|
| **Data Description** | Python Code for battery cell modeling |
| **Data Format** | .py |
| **Related BESS Component** | Battery Cell |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | project repository |
| **Link** | project repository |

#### *2.2.7.3 Battery System Model*

| | |
|---|---|
| **Data Description** | Python Code for battery system modeling |
| **Data Format** | .py |
| **Related BESS Component** | Battery System |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | project repository |
| **Link** | project repository |

### 2.2.8 Experimental and Simulation Data

The experimental datasets will include raw and processed data used for performance analysis and system validation.

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#### *2.2.8.1 SSCB Sim Data*

| | |
|---|---|
| **Data Description** | Simulation date for SSCB |
| **Data Format** | CSV and MAT |
| **Related BESS Component** | BECS and Module |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | institutional storage |
| **Link** | institutional storage |

#### *2.2.8.2 SSCB Exp. Data*

| | |
|---|---|
| **Data Description** | Experimental data for SSCB |
| **Data Format** | CSV and MAT |
| **Related BESS Component** | BECS and Module |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | institutional storage |
| **Link** | institutional storage |

#### *2.2.8.3 Diagnostic/prognostic model validation*

| | |
|---|---|
| **Data Description** | Dataset with predictions of diagnositc and prognostic model (for BMS) and the reference validation data (simulated and/or experimental) |
| **Data Format** | csv |
| **Related BESS Component** | BMS Master |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | project repository |
| **Link** | project repository |

#### *2.2.8.4 Battery Cell Performance data*

| | |
|---|---|
| **Data Description** | Simulation Output data for battery cell in pkl format compatible with Python |
| **Data Format** | .pkl |
| **Related BESS Component** | Battery Cell |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | project repository |
| **Link** | project repository |

#### *2.2.8.5 Battery System Performance data*

| | |
|---|---|
| **Data Description** | Simulation Output data for battery system in pkl format compatible with Python |
| **Primary Data Type** | Experimental/Simulation Data |
| **Data Format** | .pkl |
| **Related BESS Component** | Battery System |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | project repository |
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#### *2.2.8.6 Solid state cell measurement*

| | |
|---|---|
| **Data Description** | Electro-thermal characterisation raw data and safety test results of the Solid State cell |
| **Data Format** | XLS |
| **Related BESS Component** | Battery cell |
| **Access and Confidentiality Level** | Restricted - limited to specific partners |
| **Storage and Repository Information** | institutional storage |
| **Link** | institutional storage |

#### *2.2.8.7 Solid state cell model data*

| | |
|---|---|
| **Data Description** | Electro-thermal model data of the Solid State cell |
| **Data Format** | MAT |
| **Related BESS Component** | Battery cell model |
| **Access and Confidentiality Level** | Restricted - limited to specific partners |
| **Storage and Repository Information** | institutional storage |
| **Link** | institutional storage |

#### *2.2.8.8 Solid state cell model*

| | |
|---|---|
| **Data Description** | Electro-thermal model simulink of the SS cell |
| **Data Format** | SLX |
| **Related BESS Component** | Battery cell model |
| **Access and Confidentiality Level** | Restricted - limited to specific partners |
| **Storage and Repository Information** | institutional storage |
| **Link** | institutional storage |

#### *2.2.8.9 Baseline cell measurement*

| | |
|---|---|
| **Data Description** | Measurements for model parametrization |
| **Data Format** | CSV |
| **Related BESS Component** | Battery Cell |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | Project repository |
| **Link** | Project repository |

#### *2.2.8.10 Cone calorimeter test data*

| | |
|---|---|
| **Data Description** | Data from results following cone calorimeter testing of candidate materials |
| **Data Format** | TBD |
| **Related BESS Component** | Containment |
| **Access and Confidentiality Level** | Confidential - not shareable outside organization |
| **Storage and Repository Information** | institutional storage |
| **Link** | institutional storage |

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#### *2.2.8.11 Thermal runaway simulation (Baseline cell)*

| | |
|---|---|
| **Data Description** | Ansys Fluent simulations on module level |
| **Data Format** | CGNS |
| **Related BESS Component** | Thermal Runaway Containment and Venting |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | institutional storage |
| **Link** | institutional storage |

#### *2.2.8.12 Thermal runaway simulation (Solid-State cell)*

| | |
|---|---|
| **Data Description** | Ansys Fluent simulations on module level |
| **Data Format** | CGNS |
| **Related BESS Component** | Thermal Runaway Containment and Venting |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | institutional storage |
| **Link** | institutional storage |

#### *2.2.8.13 Thermal runaway characterization of baseline cell*

| | |
|---|---|
| **Data Description** | test data of ARC test |
| **Data Format** | CSV |
| **Related BESS Component** | Battery cell and containment |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | project repository |
| **Link** | project repository |

#### *2.2.8.14 Baseline cell thermal properties*

| | |
|---|---|
| **Data Description** | Set of thermal properties such as cp or conductivity |
| **Data Format** | CSV |
| **Related BESS Component** | Battery Cell and Thermal management system |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | project repository |
| **Link** | project repository |

#### *2.2.8.15 UL 2596 Fire test of containment materials*

| | |
|---|---|
| **Data Description** | Set of data gathered from the execution of UL 2596 Fire test |
| **Data Format** | CSV |
| **Related BESS Component** | Containment |
| **Access and Confidentiality Level** | Consortium - accessible to project partners |
| **Storage and Repository Information** | project repository |
| **Link** | project repository |

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# 3 DATA MANAGEMENT

All data generated within the MODABAT project will be accessible to all partners via a shared folder system for online collaboration. The project SharePoint is maintained by K&S. Highly sensitive data or large datasets are stored on local server as an alternative option.

## 3.1 Shared Folder Structure

The shared folder will consist of several main channels to streamline collaboration and ensure all relevant documents and data are easily accessible to partners. Each channel will contain specific folders to maintain an orderly structure, similar to the layout below:

01_Project Info

- Logos: Contains the project logo, partner logos, and required EU/ECSEL/KDT/Xecs logos.
- Templates: Contains templates for official MODABAT project documents and presentations.
- Project Guidelines: Contains guidelines for project operations.
- Description of Action (DoA): Stores the project's Description of Action.
- Consortium Agreement (CA): Holds the Consortium Agreement and any amendments.

02_Project Management

- Coordinator/Steering Committee/Risk Manager/K&S: Contains management documents related to project oversight, risk management, and collaboration.
- Project Plan: Stores the overall project plan and any updates.
- Risk Management: Contains risk management documents and mitigation plans.
- Project Monitoring: Holds deliverables and milestones for project tracking and assessment.

03_Meetings and Telcos

- Project/Review/Technical Meetings: Includes documents related to various meetings, such as general assembly and advisory board meetings.
- <Project Bodies 1..n>: Separate folders for additional project bodies as needed.

04_Work Packages

- WP1..n (ID + Name): Each work package will have its own folder, structured as follows:
- Meetings: Contains documents related to work package-specific meetings.
- Deliverables: Stores working versions of deliverables for the WP.
- Technical Documents: Includes all technical documentation relevant to the WP.
- Optional Further Folder (Task x.y): Created by the WP leader for specific task
- Optional Cross-Functional Folder: Created by the WP leader for tasks involving multiple WPs.

05_Clean_Aviation_JU

- Project Proposal: Contains the Project Proposal and any related documentation.
- Deliverables (Submitted): Stores copies of submitted deliverables.

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- Project Reviews: Contains project review documents.
- Reports: Stores interim, final, and other project-related reports.
- Amendments: Contains any amendments to the project documents.

06_Doc_Share

- <Topic_WPn>: Placeholder for WP-specific documents or topics shared across the consortium.
- 07_Publications & Patents
- Dissemination List/Plan: Contains a list and plan for dissemination activities.
- Acknowledgement: Documents related to acknowledgements and references.
- Website: Information and updates related to the project's website.
- Communication: Holds communication materials, including optional Twitter/YouTube/social media materials.
- Patents: Contains any patent filings or documentation.
- Events: Stores materials related to events.
- Other: Miscellaneous documents related to public engagement.

08_Contact List

- Contacts List (File): Stores the main contact list for all consortium members, stakeholders, and external parties.

## 3.2 Access and Protection

Registered partners have access to the project's shared folder system, including all Work Package folders for uploading, downloading and viewing files. Folder structure and permissions will be managed by the Project Coordinator and WPL. Specific restrictions can be made to access specific folders to a certain group of project members-

Security measures will prevent unauthorized access and ensure confidentiality. Before sharing sensitive data via the project SharePoint a thorough review by each partner is recommended before uploading to evaluate if and the date should be stored securely on internal servers. All partners must adhere to Intellectual Property Rights (IPR) and Access Rights. Non-confidential data will be publicly available for communication and dissemination purposes.

## 3.3 Responsibilities of data management

As coordinator, FHG is responsible for the project SharePoint but has transferred the operational management to K&S. Part of this management is:

- Maintenance (structure, upload, downloads etc.)
- Security assessment and respective mitigation measures
- Access management to the SharePoint.
- User Management.

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Data quality is primarily the responsibility of MODABAT partners. All partners must adhere to the FAIR principles and make data openly available whenever possible.

Long-Term Preservation: MODABAT partners will ensure long-term data preservation. The SharePoint will be available for 6 month and website will be available for 1 year after the project ends, followed by (website) archiving.

## 3.4 Central Data Register for Project Data Management

As part of the project's data management framework, a central register has been established to systematically track all data generated across the consortium.

This register functions as both a comprehensive map and a central hub for metadata, providing a structured and harmonized overview of all datasets produced throughout the project lifecycle. It captures key metadata elements to ensure consistency, traceability and usability of project data. In particular, the register includes the following information for each dataset:

- Responsible Partner
- Data Owner
- Work Package (WP)
- Dataset Name
- Data Description
- Primary Data Type
- Data Format
- Related BESS Component
- Access and Confidentiality Level
- Storage and Repository Information
- Link to Location

The implementation of this central register delivers significant benefits for project coordination and oversight. It enhances transparency across partners, supports consistent data governance practices and reduces redundancies in data generation and storage. Moreover, it facilitates timely access to relevant datasets, thereby improving collaboration efficiency and supporting informed decision-making.

Importantly, the central register is designed in alignment with the FAIR data principles, ensuring that project data is Findable, Accessible, Interoperable and Reusable. By structuring metadata in a standardized and accessible manner, the register contributes to increased data quality, long-term usability and compliance with funding requirements related to open science and data stewardship. Overall, this approach strengthens the project's capacity to maximize the value and impact of its generated data, both during the project execution and beyond its completion.

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# 4 FAIR DATA

The MODABAT project is committed to implementing the FAIR principles—Findability, Accessibility, Interoperability and Reusability in the management of both provided and project-generated data. The application of these principles ensures that data is effectively structured and maintained to support research, innovation, and technological development, while also facilitating transparent communication and broad dissemination of the project's results.

## 4.1 Making data findable

Project data will be stored in a dedicated project SharePoint environment established by K&S under oversight of FHG. Discoverability and usability are supported by standardized metadata and the central project data register, consistent organization and improved coordination across partners.

Scientific publications will be assigned a digital object identifier (DOI) and where feasible, associated datasets will be made available via open-access repositories in accordance with the Consortium Agreement [1] and Grant Agreement [2] (see Chapter 4.2).

Document naming conventions for project documentation and deliverables are defined in D6.1 "Project Management Guideline" [4].

## 4.2 Making data accessible

The MODABAT SharePoint environment was established at the beginning of the project. It serves as the central platform for storing and accessing project data. Access is restricted to project partners and is granted only upon request and after validation by K&S. Managing access rights, monitoring version history and ensuring regular data backups and recovery procedures are being carried out by K&S as well.

Publicly available outputs, including deliverables, publications and dissemination materials, are accessible via the project website [5] and other communication channels (e.g. LinkedIn). These materials are freely available without access restrictions. In addition, public research data will be made available, where appropriate, through open-access journals, academic journals or academic social networks (e.g. Research Gate) or open-access repositories such as Zenodo or OpenAIRE if this is requested by partners.

Project partners are committed to ensuring open access to scientific publications, either through green open access (self-archiving) or gold open access (publisher-based open access). In all cases, partners must ensure that an openly accessible version of the publication is made available.

In accordance with Article 17 "Communication, Dissemination, Open Science and Visibility" and Annex 5 of the Grant Agreement [2], each beneficiary is required to ensure open access to scientific publications via a recognised repository, while retaining sufficient intellectual property rights to comply with open access obligations.

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Table 1: Data types, accessibility and repository of project results

| Data Type (Interoperability) | Public/Confidential (Accessibility & Reusability) | Repository (Accessibility & Findability) | | | | | |
|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F |
| Marketing and Communication Material composed of common text, image, or video formats (.pdf, .docx, .jpeg, .mov, .avi , etc.) | Public, (Open Access by default policy) unless specified otherwise. Open Licences by default | X | X | | | | |
| Project internal communication composed of common text, image, or video formats | Confidential, unless specified otherwise. No license (no reuse) | | X | X | | | |
| MODABAT Public Deliverables e.g., Reports in PDF format | 10 out of 31 deliverables are public. All remaining deliverables are confidential, unless specified otherwise. Open Licences by default (research, non-commercial use) | X | X | | X | | |
| Peer-reviewed articles and data | Public, (Open Access by default policy) unless specified otherwise. Open Licences by default (research, non-commercial use) | | | | X | X | X |
| Data and metadata composed of materials and datasets resulting from research and experiments in forms of metadata and configuration files; databases, bug logs and feedback logs; developer internal documentation; evaluation and opinions. | Confidential, restricted access. Required authentication and authorisation mechanisms for access to the data. Once authenticated, Open Licence (research, non-commercial use) | | X | | X | | |
| Computer software including software applications, libraries in the form of SDKs, plugins and respective source code, models or digital twins | Confidential, restricted access. Required authentication mechanisms for data access. Once authenticated, Open Licence (research, non-commercial use) | | X | X | X | | |

| | | |
|---|---|---|
| ***A. Self-archive on MODABAT Website*** | ***C. Partner's Own Servers*** | ***E. Green Open Access*** |
| ***B. MODABAT Project Cloud*** | ***D. Repositories e.g. OpenAIRE/*** | ***F. Gold Open Access*** |

## 4.3 Making data interoperable

To ensure data interoperability, datasets will be provided, where possible, in standardized and widely used formats. The interoperability of data is achieved through the consistent and structured implementation of metadata information, as well as the application of harmonized metadata standards, methodologies and naming conventions across the project.

Interoperability will be further enhanced using common data formats described in Chapter 2.3. Publications will be made accessible in a manner that allows users to read, download and print them free of charge without access restrictions. In addition, the use of commonly accepted ontologies and a formal, widely understood language (e.g., English) will be applied throughout MODABAT to support and improve interdisciplinary

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interoperability of both data and metadata. Abbreviations and acronyms will be clearly defined upon first use and compiled in a dedicated section of the documentation to ensure clarity and consistency.

The central data register plays a key role in ensuring interoperability. By systematically capturing structured metadata, the register enables datasets to be clearly described, understood and integrated across different systems and partners.

## 4.4 Increase data re-use

All publicly disseminated data generated within the project are expected to have long-term value and will be prepared to support future reuse. To this end, datasets will be thoroughly documented with metadata, ensuring clarity on their origin, structure and context of use.

Regarding internal reuse of data among project partners beyond the project duration, this aspect has not yet been fully addressed. A detailed assessment of partner requirements and expectations will be conducted during the first project year to define appropriate mechanisms, conditions and governance structures to enable and regulate such internal reuse in a compliant and efficient manner.

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# 5 ETHICS AND DATA PROTECTION

All data, datasets, documents and files generated or used within the project shall be securely stored on the designated storage systems of the respective partner organizations. Each partner bears full responsibility for implementing appropriate data management practices, including regular backups, secure storage environments and access control mechanisms. Access to project data and provided data shall be strictly limited to authorized personnel directly involved in MODABAT ensuring data integrity and protection throughout the project duration. The configuration and management of access rights shall be carried out by the respective IT departments of each partner organization.

Confidential information is defined as any data or material explicitly designated as “confidential” and exchanged between partners during the project. All partners are required to handle such information in accordance with agreed confidentiality provisions, ensuring that sensitive data is adequately protected against unauthorized access, disclosure or misuse.

Furthermore, each partner is responsible for providing relevant background data necessary for the execution of MODABAT. Any limitations regarding the use, dissemination or exploitation of such background information shall be clearly specified. Appropriate procedures for the handling, storage and protection of confidential and proprietary data shall be always maintained, ensuring compliance with applicable data protection regulations as well as intellectual property and contractual obligations.

## 5.1 Data Protection

The MODABAT project is fully committed to ensuring compliance with the highest ethical standards and applicable data protection regulations. All project activities are conducted in accordance with the principles set out in the General Data Protection Regulation (GDPR) (EU) 2016/679, as well as relevant national legislation and the ethical requirements of Horizon Europe.

The project applies the principles of lawfulness, fairness, transparency, data minimization and integrity in all data processing activities. Attention is given to the protection of personal data and the safeguarding of participants’ rights throughout the project lifecycle.

MODABAT will be implemented in full compliance with the highest ethical standards, as well as with applicable EU, international, and national legislation governing ethical principles. Ethics and related legal requirements are addressed in the Consortium Agreement [1] and the Grant Agreement [2].

During the ethical review conducted by the funding authority, no ethical concerns were identified, and the project received formal clearance to proceed. The consortium continuously monitors potential ethical issues throughout the project lifecycle. As of project month 6 (M6), no ethical issues have been observed. Any future ethical considerations arising during project implementation will be documented and addressed in this section as needed.

### 5.1.1 Data Protection Measures

In line with the GDPR and Horizon Europe requirements, all personal data shall be anonymized wherever possible. Where full anonymization cannot be achieved, pseudonymization techniques shall be applied to reduce the risk of identification.

Personal and pseudonymized data shall be stored in secure environments with appropriate technical and organizational safeguards. Access shall be strictly restricted to authorized personnel involved in the project.

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Measures shall be implemented to prevent unauthorized access, disclosure, alteration, or loss of sensitive data. Confidentiality of data is ensured through the application of access control policies, secure storage systems, and partner-specific data handling procedures.

### 5.1.2 Compliance with GDPR

MODABAT ensures full compliance with the GDPR across all stages of the data lifecycle, including data collection, processing, storage, sharing and deletion.

Each project partner acts as data controller or processor, as appropriate and is responsible for ensuring compliance with GDPR requirements within their organization. This includes implementing adequate data protection measures, maintaining records of processing activities and ensuring that any data transfers are conducted in accordance with applicable legal frameworks.

A coordinated approach at consortium level ensures consistency in data protection practices, supporting accountability, traceability and compliance with Horizon Europe obligations.

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# 6 CONCLUSION

This deliverable has outlined a comprehensive framework for effective data management within the project, addressing all key stages from initial data identification to ethical considerations. At the outset, the process of initial data identification ensured that all relevant data types, sources, formats and responsibilities were clearly defined, providing a structured foundation for subsequent activities. Building on this, the data management approach established robust procedures for data collection, storage, processing and preservation.

A central component of the framework is the adoption of the FAIR data principles - ensuring that data are Findable, Accessible, Interoperable, and Reusable. By aligning these principles, the project promotes transparency, maximizes the value of generated data, and facilitates future reuse by both project stakeholders and the wider research community. The implementation of a structured metadata registry further strengthens this approach by enabling clear documentation, discoverability, and interoperability of datasets. Standardized metadata schemas and controlled vocabularies ensure that data can be effectively understood and reused beyond the project's lifetime.

Finally, ethical considerations have been embedded throughout all stages of data handling. Compliance with relevant legal and regulatory frameworks, including data protection and privacy requirements, ensures responsible data use.

This approach is not final and will be continuously refined throughout the project as needed, with the final Data Management Plan to be delivered in project month 24.

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[1] Project Consortia Agreement - n° 101251224, Version 3.0

[2] MODABAT Grant Agreement No. 101251224,
Associated with document Ref. Ares (2025)8814847 - 16/10/2025

[3] D5.1 - Dissemination and Exploitation Strategy

[4] D6.1 - Project Management Plan & Handbook - 02 | 2025-11-31

[5] MODABAT Website – www.modabat.eu

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