Work Package 8 – Management

D8.4 – Data Management Plan: final version

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This document is the ALIGNED project (grant no. 101059430) Data Management Plan final version. It details how the project data generated in WPs 2- 6 and 9, (Bio-based sectors and exemplary case studies) and WP 7 (Dissemination, communication and exploitation) will be made accessible for verification and re-use and how the data will be curated and preserved. The design of the core part of this document is different from ALIGNED project's other deliverables as it was prepared in ARGOS, an online tool.

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 DOI: - 17/09/2025

PROJECTS DETAILS			
Project title		Aligning Life Cycle Assessment methods and bio-based sectors for improved environmental performance.	
Project acronym	ALIGNED	**Start / Duration**	01/10/2022 – 36 months
Type of Action	RIA	**Website**	www.alignedproject.eu

DELIVERABLE DETAILS			
Dissemination level	Public	Nature	DMP
Due date (M)	M36 (September/2025)	Submission date	30/09/2025

DELIVERABLE CONTRIBUTORS			
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DOCUMENT HISTORY			
Date	**Version**	**Name**	**Changes**
18/09/2025	0.1	Agneta Ghose	First version ready
22/09/2025	0.2	Jurjen Spekreijse	Revision and input from partners (BTG)
30/09/2025	1.0	Dalia Stakenaite	Final version and submission to EC

Executive summary

The ALIGNED project delivers a modelling framework to assess and optimize the environmental and socio-economic performance of bio-based industries. The project will collaborate with industries and representatives from five bio-based sectors: construction, woodworking, textile, pulp and paper, and bio-chemicals. This document provides the **final** version of data management plan (DMP) for the ALIGNED project. This version of the ALIGNED project elaborates the data management of deliverables from work packages 2, 3, 4, 5, 6, 7 and 9. In these work packages we have used the models and tools to perform LCA in the specific bio-based sectors and related case studies.

The structure of this document is based on the guidelines and template provided for data management in Horizon Europe. This document was generated by ARGOS which is an online tool, supported by OpenAire and EUDAT that address and recommend the use of FAIR and Open best practices. The DMP is a living document and updated during the project

License

1. Deliverables X.1 (linked to WPs 2,3,4,5,6 and 9 - Task X.4) LCA of sector case study

LCA of sector case study Linked to TX.4. to work packages 2,3,4,5,6, and 9 - Task X.4

Template: Horizon Europe

Type: Dataset

1 Summary

1.1 Brief description of the described research output

1.1.1 What kind of research output are you describing?

Research Data

1.1.2 Is it physical or digital?

Digital

1.1.3 Are you generating or re-using it?

New inventory data on the production system was collected for each of the case studies

1.1.4 What is the type of the described dataset?

The inventory data was compiled with secondary commercial databases (ecoinvent v3.10 or v3.11) using the ALIGNED tools and framework.

1.1.6 What is its expected size?

Up to 14 MB

1.1.7 Why are you collecting/generating or re-using it?

• To make informed decisions

• To improve a product

• To combine with other data

The data from the case studies was collected to develop LCA models using ALIGNED tools and frameworks. This was done to assess the environmental performance of the case studies.

1.1.8 What is its origin / provenance?

Inventory data was collected on site from the industrial partners from work packages 2, 3, 4,5,6, and 9

1.1.9 To whom might it be useful ('data utility')?

• Researchers

• Research communities

• Industry

2 Links Between Outputs

2.1 Publications

2.1.1 Does the described output support any scientific publication?

No

2.1.2 Is there a data availability statement provided along with the publication?

No

2.3 Software

2.3.1 Does the described output use or support any software?

No

3 FAIR Practices

3.1 Making data and other outputs findable, including provisions for metadata

3.1.1 Making data findable, including provisions for metadata

3.1.1.1 What type(s) of persistent identifier(s) are used for the described dataset / output?

DOI Projects identifiers – Cordis ID

Datasets linked to the case studies is confidential. The access to the data is limited to the industry and scientific partners of the ALIGNED project. However, all the metadata related to the datasets will be linked to Zenodo and will also be linked to the ALIGNED community in Zenodo to ensure easy findability.

Researchers associated with developing a dataset will need to link their ORCID ID with datasets stored on Zenodo to ensure accessibility in relation to the dataset.

The Cordis ID (Grant number 101059430) for the project will be referred to in the metadata of each output.

3.1.1.2 Will you provide metadata for the described dataset / output?

Yes

3.1.1.3 What type(s) of metadata?

Descriptive

3.1.1.4 Do the metadata use standardised vocabularies?

Yes

3.1.1.6 Are the metadata searchable?

Yes

3.1.1.7 How are searchable metadata provided?

The metadata on the case study datasets are searchable using Zenodo's metadata description, which allows the registration of keywords. In addition, all deposits on Zenodo are linked to the ALIGNED community built on Zenodo (https://zenodo.org/communities/aligned-he/)

3.1.1.8 Are keywords provided in the metadata?

Yes

bio-based, LCA, stakeholder engagement, sustainability assessment, ALIGNED, bioeconomy, wood working, construction, textile, pulp and paper, biochemicals, blue biobased

3.1.1.9 Are metadata harvestable?

Yes

As the datasets are deposited in Zenodo, "the metadata for individual records as well as record collections are harvestable using the OAI-PMH protocol by the record identifier and the collection name."

3.2 Making data and other outputs openly accessible

3.2.1 Repository

3.2.1.1 In which repository will the dataset / output be deposited?

OpenAIRE Research Graph

Zenodo

All uploads can be found on https://zenodo.org/communities/aligned-he/ . The dataset is also indexed on openAIRE website as it is linked with the CORDIS ID of the project.

3.2.1.2 Is the selected repository a trusted source?

Yes. The features of Zenodo include:

• Following repository standards

• Detailing terms of use

• Has an open access content policy

• Supports back up

• Open Access content (free at the point of use)

• Assigning PIDs

• Adopting metadata standards

• Supporting mid- and long-term preservation

3.2.1.5 Does the repository(ies) assign datasets / outputs with persistent identifiers?

Yes

3.2.1.6 Does the repository(ies) resolve the identifiers to a digital object?

Yes, all metadata are retrievable by the globally unique persistent identifier.

3.2.1.7 Does the repository support versioning?

Yes

3.2.2 Data

3.2.2.1 What is the described dataset / output title?

Task x.4 LCA of the bio based sector case study (linked to T X.4 in work packages 2,3,4,5,6 and 9)

3.2.2.2 How is the dataset / output shared?

Closed

3.2.2.3 What is the reason of limiting access to the dataset / output?

The data from the case studies includes sensitive commercial information from the industry partners. The agreement to keep it confidential was planned in the initial stages of the project (See v1 of ALIGNED DMP)

3.2.2.5 Are there any methods or tools required to access the dataset / output?

No

3.2.2.8 Is the described dataset / output supported by a data access committee?

No

3.2.2.9 Please specify how the dataset / output will be accessed during and after the project ends

After the project ends the research output and accessible links to data will still be available on the Zenodo repository. The consortium has also agreed to link future research outputs developed from the ALIGNED outputs to the ALIGNED community on Zenodo.

3.2.2.10 Please specify how long after the project has ended the dataset / output will be made accessible for

Zenodo supports long-term preservation, as the repository is projected to be maintained for the lifetime of the host laboratory CERN, defined as at least the next twenty years.

3.2.3 Metadata

3.2.3.1 Will you provide metadata even if the described dataset / output cannot be openly shared?

Yes

3.2.3.2 Under which license will metadata be provided?

Creative Commons Zero (CC0)

3.2.3.3 Do metadata provide information about how to access the described dataset / output?

The name and contact details of data depositor and curator are provided in the metadata. In addition, the metadata includes LCI specific metadata that will enable reusability specifically for future LCA research related to these sectors.

3.2.3.4 Will metadata remain available after the dataset / output is no longer available?

Yes

Meta data is mandatory for all dataset(s) uploaded on Zenodo. All datasets (and metadata) published on Zenodo will be maintained for the lifetime of the repository (approximately 20 years).

3.3 Making data and other outputs interoperable

3.3.1 Does your (meta)data use a controlled vocabulary?

No

3.3.3 Have you applied a standard schema for your (meta)data?

Yes

3.3.5 What is the methodology followed?

Datacite schema

3.3.6 What community-endorsed interoperability best practices are followed?

The data was collected and compiled in foreground data template provided in ALIGNED WP1 . This template can be uploaded on brightway2 an open source python based software. This makes the data interoperable in the LCA community.

3.3.7 Does the described dataset / output provide qualified references with other outputs?

Yes

All research outputs are cross referenced. There is a provision to specify identifiers of related publications and datasets on the DataCite metadata schema provided by Zenodo.

3.4 Increasing data and other outputs reuse

3.4.1 What internationally recognised licence will you use for your dataset / output?

Closed Access

- Metadata is open, but the data itself is not publicly accessible.
- Access may require permission or request approval of project partners

3.4.2 What reusability and / or reproducibility methods are followed?

• Readme files

3.4.3 Will you provide the described dataset / output in the public domain?

No

3.4.4 Do you intend to ensure (re)use by third parties after your project finishes?

Yes

All confidential data remains only with the project partners.

3.4.5 Is provenance well documented?

Yes

3.4.6 What documented procedures for quality assurance do you have in place?

• Set up of scientific and technical committee

• Use of tools for automatic checks

• Data conform to format specification

• Consistency verified with data models and standards

4 Allocation of Resources

4.1 Allocation of resources

4.1.1 What will be the cost of making the described output FAIR?

No significant costs are anticipated for storing, archiving or securing the data related to the case studies.

4.1.2 How will this cost be covered?

Data will be maintained on individual partners' institutional servers, which are already part of their internal infrastructure and do not generate additional project-specific expenses.

4.1.3 Identify the people who will be responsible and their role(s) in the management of the described output

Agneta Ghose (orcid: 0000-0003-1972-1433)

Massimo Pizzol (0000-0002-7462-2668; massimo@plan.aau.dk)

Dalia Stakenaite (0009-0004-1294-4524; dst@adm.aau.dk)

5 Security

5.1 Data Security

5.1.1 What security measures are followed?

Passwords

Datasets related to the case studies are stored in password protected institutional servers of individual project partners.

5.1.2 What conditions do the security measures meet?

• Data access

• Data storage

- Data sharing

6 Ethical Aspects

6.1 Ethical aspects

6.1.1 Are there any ethical or legal issues that can have an impact on sharing the described dataset / output?

No

6.1.2 Does the described dataset / output contain sensitive information?

Yes

6.1.3 Does the described dataset / output contain personal data?

No

6.1.4 What are the methods used for processing and accessing sensitive/personal information?

Not available

7 Other Issues

7.1 Other

7.1.1 Do you make use of other procedures for data management?

No

2. Deliverable X.2 (linked to WPs 2,3,4,5,6, and 9 - Task X.5) Sector-wide recommendations to stakeholders

Sector-wide recommendations, these reports are developed using feedback from the ALIGNED project and its application on case studies. The recommendations are aimed at sector-wide companies and consultants working with sustainability data and performance assessment.

Target audience: stakeholders in the sector. Those deliverables are linked to TX.5.

Template: Horizon Europe

Type: Dataset

1 Summary

1.1 Brief description of the described research output

1.1.1 What kind of research output are you describing?

Other

1.1.2 Is it physical or digital?

Digital

1.1.3 Are you generating or re-using it?

Re-used

The recommendation reports are developed from stakeholder feedback and the application of LCA tools and framework developed in the ALIGNED project.

1.1.4 What is the type of the described dataset?

Other

1.1.5 What is its format?

PDF documents

1.1.6 What is its expected size?

4 MB

1.1.7 Why are you collecting/generating or re-using it?

- To make informed decisions
- To improve a product

1.1.9 To whom might it be useful ('data utility')?

• Decision makers

• Industry

2 Links Between Outputs

2.1 Publications

2.1.1 Does the described output support any scientific publication?

No

2.1.2 Is there a data availability statement provided along with the publication?

No

2.2 Datasets

2.2.1 Does the described output use or support any published dataset?

No

2.3 Software

2.3.1 Does the described output use or support any software?

No

3 FAIR Practices

3.1 Making data and other outputs findable, including provisions for metadata

3.1.1 Making data findable, including provisions for metadata

3.1.1.1 What type(s) of persistent identifier(s) are used for the described dataset / output?

• Data identifiers -DOI

• Projects identifiers – Cordis ID

3.1.1.2 Will you provide metadata for the described dataset / output?

Yes

All deliverables are registered on Zenodo which generates DOI. In addition, research outputs linked to Zenodo will also be linked to the ALIGNED community to ensure easy findability.

Researchers associated with developing a dataset will need to link their ORCID ID with datasets stored on Zenodo.

The Cordis ID (Grant number 101059430) for the project will be referred to in the metadata of each output.

3.1.1.3 What type(s) of metadata?

Descriptive

3.1.1.4 Do the metadata use standardized vocabularies?

Yes

3.1.1.6 Are the metadata searchable?

Yes

3.1.1.7 How are searchable metadata provided?

Metadata repository

The reports will be searchable using Zenodo's metadata description, which allows the registration of keywords. In addition, all deposits on Zenodo are linked to the ALIGNED community built on Zenodo (https://zenodo.org/communities/aligned-he/)

3.1.1.8 Are keywords provided in the metadata?

Yes

bio-based, LCA, stakeholder engagement, sustainability assessment, ALIGNED, bioeconomy, wood working, construction, textile, pulp and paper, biochemicals, blue biobased

3.1.1.9 Are metadata harvestable?

Yes

As the datasets will be deposited in Zenodo, "the metadata for individual records as well as record collections are harvestable using the OAI-PMH protocol by the record identifier and the collection name."

3.2 Making data and other outputs openly accessible

3.2.1 Repository

3.2.1.1 In which repository will the dataset / output be deposited?

OpenAIRE Research Graph

Zenodo

The report is also indexed on openAIRE website as it is linked with the CORDIS ID of the project.

3.2.1.2 Is the selected repository a trusted source?

Yes

• Follows repository standards

• Details terms of use

• Has an open access content policy

• Supports back up

• Provides Open Access content (free at the point of use)

• Assigns PIDs

• Follows metadata standards

• Supports mid- and long-term preservation

3.2.1.5 Does the repository(ies) assign datasets / outputs with persistent identifiers?

Yes

3.2.1.6 Does the repository(ies) resolve the identifiers to a digital object?

Yes, all data and metadata are retrievable by the globally unique persistent identifier.

3.2.1.7 Does the repository support versioning?

Yes

3.2.2 Data

3.2.2.1 What is the described dataset / output title?

Task X.2 Sector wide recommendations

3.2.2.2 How is the dataset / output shared?

Open

3.2.2.5 Are there any methods or tools required to access the dataset / output?

No

3.2.2.8 Is the described dataset / output supported by a data access committee?

No

3.2.2.9 Please specify how the dataset / output will be accessed during and after the project ends

After the project ends the research output will still be available on the Zenodo repository.

3.2.2.10 Please specify how long after the project has ended the dataset / output will be made accessible for

Zenodo supports long-term preservation, as the repository is projected to be maintained for the lifetime of the host laboratory CERN, defined as at least the next twenty years

3.2.3 Metadata

3.2.3.1 Will you provide metadata even if the described dataset / output can not be openly shared?

Yes

3.2.3.2 Under which license will metadata be provided?

Creative Commons Zero (CC0)

3.2.3.3 Do metadata provide information about how to access the described dataset / output?

Yes

The name and contact details of data depositor and curator are provided in the metadata.

3.2.3.4 Will metadata remain available after the dataset / output is no longer available?

Yes

Meta data is mandatory for all dataset(s) uploaded on Zenodo. All datasets (and metadata) published on Zenodo will be maintained for the lifetime of the repository (approximately 20 years).

3.3 Making data and other outputs interoperable

3.3.1 Does your (meta)data use a controlled vocabulary?

No

3.3.3 Have you applied a standard schema for your (meta)data?

Yes

3.3.5 What is the methodology followed?

Datacite metadata schema

3.3.6 What community-endorsed interoperability best practices are followed?

Not applicable

3.3.7 Does the described dataset / output provide qualified references with other outputs?

Yes

All research outputs are cross referenced. There is a provision to specify identifiers of related publications and datasets on the DataCite metadata schema provided by Zenodo.

3.4 Increasing data and other outputs reuse

3.4.1 What internationally recognised licence will you use for your dataset / output?

Attribution-NonCommercial-ShareAlike 4.0

3.4.2 What reusability and / or reproducibility methods are followed?

Not applicable

3.4.3 Will you provide the described dataset / output in the public domain?

Yes

3.4.4 Do you intend to ensure (re)use by third parties after your project finishes?

Yes

3.4.5 Is provenance well documented?

Yes

3.4.6 What documented procedures for quality assurance do you have in place?

• Set up of scientific and technical committee

• Use of tools for automatic checks

• Data conform to format specification

4 Allocation of Resources

4.1 Allocation of resources

4.1.1 What will be the cost of making the described output FAIR?

No significant costs are anticipated for making data or other research outputs FAIR (Findable, Accessible, Interoperable, Reusable). Data will either be:

☐ Stored on the freely accessible Zenodo repository, which does not charge for standard dataset uploads (within its quota limits), or

☐ Maintained on individual partners' institutional servers, which are already part of their internal infrastructure and do not generate additional project-specific expenses.

4.1.2 How will this cost be covered?

☐ If Open Access publishing costs arise (e.g. article processing charges for scientific journals), these will be covered directly by the individual partners responsible for the respective publications, using their assigned project funds.

☐ Long-term preservation will be primarily supported through Zenodo, which guarantees long-term archiving and persistent identifiers (DOIs) for all deposited outputs.

4.1.3 Identify the people who will be responsible and their role(s) in the management of the described output

Agneta Ghose (orcid: 0000-0003-1972-1433)

Massimo Pizzol (0000-0002-7462-2668; massimo@plan.aau.dk)

Dalia Stakenaite (0009-0004-1294-4524; dst@adm.aau.dk)

5 Security

5.1 Data Security

5.1.1 What security measures are followed?

Data security related to access and storage not required as the data will be available in the public domain and disclosure is not harmful to involved project partners.

5.1.2 What conditions do the security measures meet?

- Data access
- Data storage
- Data sharing

5.1.3 How will you preserve the described dataset / output in the long term?

The project outputs will be stored on Zenodo which provides long-term storage.

6 Ethical Aspects

6.1 Ethical aspects

6.1.1 Are there any ethical or legal issues that can have an impact on sharing the described dataset / output?

no

6.1.2 Does the described dataset / output contain sensitive information?

No

6.1.3 Does the described dataset / output contain personal data?

No

7 Other Issues

7.1 Other

7.1.1 Do you make use of other procedures for data management?

No

3. Deliverable 7.8 (Linked to Task 7.4) Recommendations from stakeholder engagement

Recommendations to WP1 through WP6 and WP9 from stakeholder engagement activities (13 workshops and 10 consultations). This deliverable is linked to T7.4.

Template: Horizon Europe

Type: Dataset

1 Summary

1.1 Brief description of the described research output

1.1.1 What kind of research output are you describing?

Other

1.1.2 Is it physical or digital?

Digital

1.1.3 Are you generating or re-using it?

Re-used

The recommendation reports are developed from stakeholder feedback and the application of LCA tools and framework developed in the ALIGNED project.

1.1.4 What is the type of the described dataset?

Other

1.1.5 What is its format?

PDF documents

1.1.6 What is its expected size?

4 MB

1.1.7 Why are you collecting/generating or re-using it?

- To make informed decisions
- To improve a product

1.1.9 To whom might it be useful ('data utility')?

- Decision makers

• Industry

2 Links Between Outputs

2.1 Publications

2.1.1 Does the described output support any scientific publication?

No

2.1.2 Is there a data availability statement provided along with the publication?

No

2.2 Datasets

2.2.1 Does the described output use or support any published dataset?

No

2.3 Software

2.3.1 Does the described output use or support any software?

No

3 FAIR Practices

3.1 Making data and other outputs findable, including provisions for metadata

3.1.1 Making data findable, including provisions for metadata

3.1.1.1 What type(s) of persistent identifier(s) are used for the described dataset / output?

• Data identifiers - DOI

• Projects identifiers - Cordis

3.1.1.2 Will you provide metadata for the described dataset / output?

Yes

All deliverables are registered on Zenodo which generate DOI. In addition, research outputs linked to Zenodo will also be linked to the ALIGNED community to ensure easy findability.

Researchers associated with developing a dataset will need to link their ORCID ID with datasets stored on Zenodo.

The Cordis ID (Grant number 101059430) for the project will be referred to in the metadata of each output.

3.1.1.3 What type(s) of metadata?

Descriptive

3.1.1.4 Do the metadata use standardised vocabularies?

Yes

3.1.1.6 Are the metadata searchable?

Yes

3.1.1.7 How are searchable metadata provided?

Metadata repository

The reports will be searchable using Zenodo's metadata description, which allows the registration of keywords. In addition, all deposits on Zenodo are linked to the ALIGNED community built on Zenodo (https://zenodo.org/communities/aligned-he/)

3.1.1.8 Are keywords provided in the metadata?

Yes

bio-based, LCA, stakeholder engagement, sustainability assessment, ALIGNED, bioeconomy, wood working, construction, textile, pulp and paper, biochemicals, blue biobased

3.1.1.9 Are metadata harvestable?

Yes

As the datasets will be deposited in Zenodo, "the metadata for individual records as well as record collections are harvestable using the OAI-PMH protocol by the record identifier and the collection name."

3.2 Making data and other outputs openly accessible

3.2.1 Repository

3.2.1.1 In which repository will the dataset / output be deposited?

OpenAIRE Research Graph

Zenodo

The report is also indexed on openAIRE website as it is linked with the CORDIS ID of the project.

3.2.1.2 Is the selected repository a trusted source?

Yes

• Follows repository standards

• Details terms of use

• Has an open access content policy

• Supports back up

• Provides Open Access content (free at the point of use)

• Assigns PIDs

• Follows metadata standards

• Supports mid- and long-term preservation

3.2.1.5 Does the repository(ies) assign datasets / outputs with persistent identifiers?

Yes

3.2.1.6 Does the repository(ies) resolve the identifiers to a digital object?

Yes, all data and metadata are retrievable by the globally unique persistent identifier.

3.2.1.7 Does the repository support versioning?

Yes

3.2.2 Data

3.2.2.1 What is the described dataset / output title?

Deliverable 7.8 Recommendations from Stakeholder engagement

3.2.2.2 How is the dataset / output shared?

Open

3.2.2.5 Are there any methods or tools required to access the dataset / output?

No

3.2.2.8 Is the described dataset / output supported by a data access committee?

No

3.2.2.9 Please specify how the dataset / output will be accessed during and after the project ends

After the project ends the research output will still be available on the Zenodo repository.

3.2.2.10 Please specify how long after the project has ended the dataset / output will be made accessible for

Zenodo supports long-term preservation, as the repository is projected to be maintained for the lifetime of the host laboratory CERN, defined as at least the next twenty years

3.2.3 Metadata

3.2.3.1 Will you provide metadata even if the described dataset / output can not be openly shared?

Yes

3.2.3.2 Under which license will metadata be provided?

Creative Commons Zero (CC0)

3.2.3.3 Do metadata provide information about how to access the described dataset / output?

Yes

3.2.3.4 Will metadata remain available after the dataset / output is no longer available?

Yes

3.3 Making data and other outputs interoperable

3.3.1 Does your (meta)data use a controlled vocabulary?

No

3.3.3 Have you applied a standard schema for your (meta)data?

Yes

3.3.5 What is the methodology followed?

Datacite metadata schema

3.3.6 What community-endorsed interoperability best practices are followed?

Not applicable

3.3.7 Does the described dataset / output provide qualified references with other outputs?

Yes

All research outputs are cross referenced. There is a provision to specify identifiers of related publications and datasets on the DataCite metadata schema provided by Zenodo.

3.4 Increasing data and other outputs reuse

3.4.1 What internationally recognised licence will you use for your dataset / output?

Attribution-NonCommercial-ShareAlike 4.0

3.4.2 What reusability and / or reproducibility methods are followed?

Other

Not applicable

3.4.3 Will you provide the described dataset / output in the public domain?

Yes

3.4.4 Do you intend to ensure (re)use by third parties after your project finishes?

Yes

3.4.5 Is provenance well documented?

Yes

3.4.6 What documented procedures for quality assurance do you have in place?

• Set up of scientific and technical committee

• Use of tools for automatic checks

• Data conform to format specification

4 Allocation of Resources

4.1 Allocation of resources

4.1.1 What will be the cost of making the described output FAIR?

No significant costs are anticipated for making data or other research outputs FAIR (Findable, Accessible, Interoperable, Reusable). Data will either be:

 Stored on the freely accessible Zenodo repository, which does not charge for standard dataset uploads (within its quota limits), or

 Maintained on individual partners' institutional servers, which are already part of their internal infrastructure and do not generate additional project-specific expenses.

4.1.2 How will this cost be covered?

 If Open Access publishing costs arise (e.g. article processing charges for scientific journals), these will be covered directly by the individual partners responsible for the respective publications, using their assigned project funds.

 Long-term preservation will be primarily supported through Zenodo, which guarantees long-term archiving and persistent identifiers (DOIs) for all deposited outputs.

4.1.3 Identify the people who will be responsible and their role(s) in the management of the described output

Agneta Ghose (orcid: 0000-0003-1972-1433)

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5 Security

5.1 Data Security

5.1.1 What security measures are followed?

Data security related to access and storage not required as the data will be available in the public domain and disclosure is not harmful to involved project partners.

5.1.2 What conditions do the security measures meet?

- Data access
- Data storage
- Data sharing

5.1.3 How will you preserve the described dataset / output in the long term?

The workflows will be stored on Zenodo which provides long-term storage.

6 Ethical Aspects

6.1 Ethical aspects

6.1.1 Are there any ethical or legal issues that can have an impact on sharing the described dataset / output?

No

6.1.2 Does the described dataset / output contain sensitive information?

No

6.1.3 Does the described dataset / output contain personal data?

Yes – email addresses of respective industry stakeholders.

Project partners will retain access to stakeholders' email addresses from six bio-based sectors for the duration of the project, strictly based on informed and explicit consent. In accordance with GDPR, personal data will be processed lawfully, transparently, and solely for the purpose of sharing research updates where requested. All contact details will be securely deleted two years after project completion, and data subjects will retain the right to withdraw consent at any time.

7 Other Issues

7.1 Other

7.1.1 Do you make use of other procedures for data management?

No

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