TITAN

Transparency solutions for transforming the food system

Deliverable 1.6 – Revised Data Management Plan III

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Authors	Marcela Tuler de Oliveira (TU Delft)
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Executive Summary

This D1.6 provides the final update of the TITAN Data Management Plan at Month 48, following up on D1.5 and consolidating the project's data management activities over the last year of implementation. As the final data management deliverable of the project, it documents the status of datasets generated, used, or reused across the consortium and confirms the extent to which the project has met its FAIR data and Open Science commitments.

The report builds on the previous data management deliverables, particularly D1.5, which covered progress up to Month 36. D1.6 updates the dataset inventory with the latest information from all Work Packages, including final dataset status, repository links, DOIs where available, licenses, access conditions, embargo arrangements, and responsibilities for long-term preservation. It also records the remaining actions required to ensure that project outputs remain findable, accessible, interoperable, and reusable after the end of the project.

The final update confirms the project's continued use of Zenodo as the main public repository for open datasets and related research outputs, while also documenting justified restrictions for datasets that cannot be made openly available due to confidentiality, intellectual property, ethical, commercial, or data protection considerations. Where access is restricted, the report clarifies the rationale and, where relevant, the conditions under which data may be accessed or reused.

Overall, D1.6 demonstrates that TITAN has maintained a structured and consortium-wide approach to data management throughout the full project lifecycle. It provides a final overview of data outputs, responsibilities, compliance status, and preservation measures, ensuring continuity beyond project completion and supporting the long-term visibility and reuse of TITAN results.

Authors and Reviewers

Main Responsible		
Organization	**Name**	**Mail**
TUD	Marijn Janssen	M.F.W.H.A.Janssen@tudelft.nl
Author(s) / Contributor (s)		
Organization	**Name**	**Mail**
TUD	Marcela Tuler de Oliveira	m.tulerdeoliveira@tudelft.nl
TUD	Nicolas Dintzner	N.J.R.Dintzner@tudelft.nl
INRAE	Bernadette Durand	bernadette.durand@inrae.fr
Agricolus	Sofia Maria Lilli	sm.lilli@agricolus.com
TotalCtrl	Charlotte Achim	charlotte@totalctrl.no
Agri MP	Adriana Szymanska	aszymanska@agrimp.com
WU	Dengxiao Lang	dengxiao.lang@wur.nl
WU	Verena Otter	verena.otter@wur.nl
AZTI	Elena Santa Cruz	esantacruz@azti.es
AITalentum	Andrea Martinez	amartinez@aitalentum.es
CU	Christopher Bear	Bearck@cardiff.ac.uk
Reviewer(s)		
Organization	**Name**	**Mail**
ILSI EU	Isabelle Guelinckx	iguelinckx@ilsieurope.be

By including his/her name in the table, the person accepts to have his/her name available on this document

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Abbreviations

Acronym	Definition
AI	Artificial Intelligence
BC	Blockchain
BPMN	Business Process Modeling Notation
D	Deliverable
DMP	Data management plan

ERP system	Enterprise resource planning system
FSC	Food supply chain
SME	Small and medium-sized enterprises
T	Task
TITAN	Transparency solutions for transforming the food system
WP	Work package

Terminology

Acronym	Definition
Data repository	A data repository enables data archiving by providing a long term storage solution, often set up for researchers. In TITAN, data repositories are used to make data publicly available.
Data provenance	Data provenance refers to the data origin, what it will be used for and how it moves.
Metadata	Metadata is information about other data, and is thus linked to certain data. Metadata is not about the content of these data, but describe certain characteristics, such as authors, language, date of publication or how to access it.
Interoperability	The concept interoperability in the context of TITAN refers to the formatting of data in a way that it can be shared and used by diverse (dissimilar) systems.
Ontology	An ontology encompasses a description of the data structure by defining data classes, properties an relations.
Creative Common licenses	Creative Commons licenses form a coherent whole of various public licenses with which a work that falls under copyright law, such as datasets, can be distributed freely.

1. Introduction

TITAN has developed and tested digital innovations that support transparency in food systems. Across the project, partners have generated, used, and reused different types of data, including research data, pilot data, technical outputs, stakeholder input, dissemination material, and project management records. Managing these data appropriately has been necessary to ensure scientific quality, legal and ethical compliance, and the long-term value of project results.

This Deliverable 1.6 provides the final update of the TITAN Data Management Plan at Month 48. It follows up on D1.5, which reported the status of data management up to Month 36, and consolidates the final year of data-related activities. The document records the datasets generated, used, or reused during the project, with particular attention to updates from M37 to M48 and to the final status of each dataset at project closure.

In line with previous versions of the Data Management Plan, TITAN continues to apply FAIR data principles: data should be Findable, Accessible, Interoperable, and Re-usable where possible. Zenodo remains the default repository for public research outputs, while alternative repositories may be used where justified by technical, institutional, or disciplinary requirements. The project follows the principle “as open as possible, as closed as necessary”, recognizing that some datasets may require

restricted or confidential treatment due to privacy, ethics, intellectual property, commercial sensitivity, or legal constraints.

Because several TITAN activities involved human participants, stakeholder engagement, pilot implementation, and potentially sensitive organizational or technical information, data management remains closely connected to ethics, GDPR compliance, consent, anonymization, access control, and responsible data sharing. This deliverable should therefore be read together with the relevant ethics and project governance documentation.

As the final data management deliverable of the project, D1.6 provides a consolidated view of data outputs, access conditions, preservation arrangements, remaining limitations, and responsibilities for post-project stewardship.

2. Objectives of the document

The objective of this document is to provide the final Month 48 update of the TITAN Data Management Plan and to document the final status of data management across the project.

More specifically, this deliverable aims to:

- consolidate the datasets generated, used, or reused by TITAN partners across all Work Packages and Tasks;
- update the dataset inventory with the latest information from M37 to M48;
- confirm the final access status of each dataset, including whether it is open, embargoed, restricted, confidential, or not applicable for sharing;
- record repository links, DOIs, licenses, metadata, documentation, and responsible partners where available;
- identify datasets that cannot be made fully open and document the reason, expected retention period, embargo end date, or access conditions where relevant;
- verify how FAIR principles have been applied in practice throughout the full project lifecycle;
- document ethical, legal, GDPR, IPR, and confidentiality considerations related to data sharing and preservation;

This final DMP provides a retrospective and final project-level record of how data were handled during TITAN and what arrangements remain in place after project completion.

2.1 Associated Tasks

D1.6 sits within WP1 – Project Management & Coordination.

- T1.4: defines and maintains the data management lifecycle (this DMP).
- T1.6 and WP10: ensure ethical compliance for human-participant data and alignment with GDPR and institutional review processes.

Roles remain as stated in D1.4: WP Leaders ensure adherence within their WPs; the Project Coordinator maintains the data register/repository status; TUD supports infrastructure and clarifications; all partners ensure internal team compliance.

3. How to read this document

- Section 7 (by WP) is the working area for partners. For each Task in your WP, paste the completed dataset table(s) (one table per dataset). If a Task produced no datasets, add a

one-line note: “No datasets produced.” This mirrors the practical guidance given in D1.4, adapted to an M48 retrospective.

- For every dataset, include: DOI (Zenodo preferred), license, access level (Open/Embargoed/Restricted/Confidential), and, if not open, a reason and embargo end date.
- Continue to register datasets in the data register to maintain internal discoverability and stewardship.
- Read this document together with the relevant WP10 ethics deliverables for guidance on consent, safeguards, and lawful processing.

4. Summary of Data Processing After 48 Months (Retrospective)

This section summarizes the data processing activities carried out across the full TITAN project period, with emphasis on the final update from Month 37 to Month 48. It covers datasets generated, used, or reused in research, technical development, pilot implementation, stakeholder engagement, dissemination, exploitation, and project coordination.

4.1 Purpose of Data Collection (observed)

- Data supported tool development, validation, and evaluation across pilots, and underpinned scientific publications and deliverables.
- Publicly shareable datasets increase reproducibility and support policy and industry decision-making.

4.2 Provenance

Primary (pilots, instruments, apps, surveys) and secondary sources (e.g., Eurostat, LCA, nutrition databases) were used; provenance must be recorded per dataset table.

4.3 Formats and Storage

Common open formats (CSV/JSON/XML/RDF) alongside documentation (PDF/DOCX), media (JPG/PNG/MP4), and analytics files; storage on institutional/consortium services.

5. FAIR and Open Research Data

TITAN continues to implement FAIR with Zenodo as the default open repository (community collection), rich metadata (DataCite profile), and DOIs for citation and versioning.

5.1 Findable

Deposit datasets to Zenodo (or 4TU.ResearchData when size justifies), include grant number and project acronym, supply rich metadata and controlled vocabularies.

5.2 Accessible

Principle: “as open as possible, as closed as necessary,” with open formats; restrict only when justified (ethics/IPR/privacy). If restricted/embargoed, include reason and (if applicable) end date in the table.

5.3 Interoperable

Prefer open/tabular formats, schema/ontologies, READMEs, and, where applicable, RDF; provide documentation for any non-standard formats.

5.4 Re-usable

Apply appropriate licenses (e.g., CC-BY for data; CC0 when applicable) and clear provenance; include README and, when relevant, executable code/containers.

6. Reporting Instructions and Guidelines

For each WP, create a subsection for every Task. Paste the completed dataset table(s) under the relevant Task. If a Task produced no datasets, insert "No datasets produced." Keep section numbering.

WP: XX	Task: XXX	Partner name:
Field	Description / Options	Answers
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	
Data Title	Title or short description of the dataset.	
Origin of Data	☐ Primary data (collected/generated within project) ☐ Secondary data (re-used from external sources)	
Data Collection Method	Select one or more: ☐ Interviews ☐ Surveys ☐ Measurements ☐ Demonstrations ☐ Literature ☐ Sensor data ☐ Simulation / modeling ☐ Administrative / project records ☐ Other (specify)	
Content / Data Type	☐ Text (notes, reports, transcripts) ☐ Numeric (tables, counts, measurements) ☐ Audiovisual (images, sound, video, presentations) ☐ Software / code ☐ Metadata only ☐ Other (specify)	
Volume / Size	Indicate approximate size: ☐ <100 MB ☐ 100 MB–1 GB ☐ 1–10 GB ☐ 10–100 GB ☐ >100 GB (Specify if applicable)	
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	

Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: ☐ Open ☐ Restricted ☐ Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	
Documentation / Accessibility	Indicate whether supporting materials exist: ☐ README file ☐ Website / online documentation ☐ Executable code / scripts ☐ API or service endpoint ☐ None (explain why)	
Contact / Responsible Partner	Partner name, contact person, email:	

Table 1 Template Data Management Reporting Table

6.1 Step-by-step: filling each table field

1. **Data ID / Reference**

- Format: WP#-T#-ShortName-v# (e.g., WP2-T2.1-SensorTrials-v1).
- Must be unique inside your WP. If you revise a dataset, increment the version.

2. **Data Title**
   - 5–15 words; plain language (what/where/when).
   - Example: “Household energy sensor logs from LL-North, Jan–May 2024”.
3. **Origin of Data**
   - Tick **Primary** (generated/collected in the project) or **Secondary** (re-used).
   - If Secondary, you must complete the “Source of Secondary Data” field (see #10).
4. **Data Collection Method**
   - Tick all that apply: Interviews, Surveys, Measurements, Demonstrations, Literature, Sensor data, Simulation/Modeling, Admin/Project records, Other (specify).
   - Add brief specifics (e.g., “BLE wearables at 1 Hz”, “CATI survey, 30 items”).
5. **Content / Data Type**
   - Tick: Text, Numeric, Audiovisual, Instrument-specific outputs, Software/code, Metadata only, Other.
   - Add a short inventory (e.g., “CSV (measurements), MP4 (camera), JSON (metadata)”).
6. **Volume / Size**
   - Choose a range and add an estimate (e.g., “10–100 GB (approx. 28 GB uncompressed; 11 GB zipped)”).
   - Mention compression if used.
7. **File Formats**
   - List **all** formats (e.g., CSV, XLSX, JSON, XML, DOCX, PDF, JPG/PNG/SVG, MP4/WAV).
   - Prefer **open, machine-readable** formats (CSV/JSON) alongside human-readable (PDF).
8. **Software Required**

Name software **and version/edition** (e.g., “Python ≥3.11 with pandas 2.x”, “ArcGIS Pro 3.2”). Note OS constraints and any **proprietary** tools.

9. **Generation / Collection Details**

Describe **who/where/when/how**: sampling frame, instruments, protocols, calibration, units, frequency, inclusion/exclusion, QA steps, and any preprocessing (cleaning, anonymization, derived variables).

10. **Source of Secondary Data (if used)**

Give full citation, DOI/URL, license (e.g., CC-BY 4.0), date accessed, and any use restrictions. Example: “Eurostat ‘Energy balance’ (DOI: …), license CC-BY 4.0, accessed 2024-05-18.”

11. **Purpose of the Data**

Link to WP objectives, Tasks, and Deliverables (IDs). Example: “Supports WP3-T3.2 algorithm validation; reported in D3.4; reused by WP5 impact assessment.”

12. **FAIR & Sharing**

- **DOI**: Provide the dataset’s DOI (Zenodo).
- **Link**: provide the URL of the datasets (if existing), or the name of the institution hosting the data and the contact details of the contact person for access requests.
- **Access level**: Open / Embargoed / Restricted / Confidential (consortium only).
    - If "Embargoed", indicate what license you intend to release the material under later.
    - If "Restricted" or "Confidential" provide an estimate of the retention period.
- **License**: CC-BY 4.0 recommended for data; MIT/Apache-2.0 for code unless obligations differ.
- **If Embargoed or Restricted**: give a **clear reason** and **embargo end date** (see Section 4).

13. **Ethical / Legal Considerations**

- State whether the dataset contains **personal data** (GDPR), **sensitive categories**, export-controlled items, or third-party IP.
- Note approvals (ethics board/protocol IDs), consent model, anonymization/pseudonymization, DPIA status, and Data Processing Agreements if any.

14. **Documentation / Accessibility**

Tick all that apply and **provide links**:

- **README file** (required for all open or shared datasets)
- **Website / online documentation** (e.g., docs site, demo)
- **Executable code / scripts** (e.g., notebooks, CLI, container, workflow)
- **API or service endpoint**
- If none exist, write “None” and explain why.

15. **Contact / Responsible Partner**

- Partner name, contact person, role, email.
- If a maintainer differs from the contact, list both.

6.2 Making data accessible

Following the Horizon Europe principles on Open access & Data management, stated in Annex 5, Article 17, TITAN adheres to the principle “as open as possible, as closed as necessary”. Research data will be made openly accessibly where possible with an open license (for licenses see §2.2.4).

All public data shall be published in Zenodo, the data repository described in 2.2.1, which is openly available and can be accessed free of charge. Zenodo provides a citation and a DOI to each uploaded data or information item. In addition, data will be shared in an openly accessible format to stimulate data re-use.

Access to data can be restricted if it of sensitive nature and raises ethical, IPR or privacy concerns. These data will be distributed only if it is deemed necessary, and via a data sharing agreement. The Joint Controller Agreement is an example of this. Determining the terms for sharing sensitive data lays within the discretion of the partner that is in control of the data, because in the end, they know best how sensitive data are.

The management of IPR and exploitation will, besides the principles that are already defined in the CA and GA, be discussed in the exploitation plans (D8.4, D8.5, D8.6).

6.3 If your data cannot be fully open

Select "Embargoed", "Restricted", or "Confidential" and include the reason and timeline. Examples you can paste:

- *Embargoed until 2026-03-31 to align with journal publisher policy for the associated article under review.*
- *Restricted due to GDPR: contains pseudonymized data with residual re-identification risk; access via DUA upon request to the PI.*
- *Confidential: third-party proprietary components under license; redistribution not permitted by vendor.*

Where possible, provide open derivatives (e.g., aggregated statistics, synthetic data, or code/notebooks that reproduce figures using a toy dataset).

7. Work Package Reporting

7.1 WP2 — Managing stakeholder transparency interests in digitalizing food supply chain networks

7.1.1 Task 2.1 – Identifying and selection of primary and secondary stakeholder relationships and digital transparency potentials in food supply chain network structures

WP: 2	Task: 2.1	Partner name: Wageningen University
Field	**Description / Options**	**Answers**
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP2-T2.1
Data Title	Title or short description of the dataset.	• Semi-structured interviews • Focus group discussions for stakeholder identification

Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary Data
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	• Semi-structured interviews • Focus group discussions
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	• Text: transcripts • Audiovisual: video, images • Software: Atlas.ti
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	10–100 GB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	• Transcripts: DOCX • Video: MP4 • Images: JPEG, PNG • Coding results: XLSX
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	MS Office, Atlas.ti
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	• 21 semi-structured interviews were performed online • 14 focus group discussions were conducted in person • Stakeholder evaluation factors were extracted by using Atlas.ti

Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	N/A
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Project management, reporting, scientific analysis, dissemination, ethics compliance.
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	**DOI:** Not applicable; the dataset was not publicly deposited due to confidentiality and consent restrictions. **Access level:** Confidential. **Public licence:** Not applicable. Reuse is subject to the applicable informed consent, ethical approvals and institutional access conditions.
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	• Personal data aligned with GDPR compliance • No Sensitive data (health, financial, etc.) • Ethical approvals granted by the WU Research Ethics Committee
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	• Website / online documentation for the publications • Executable code from Atlas.ti
Contact / Responsible Partner	Partner name, contact person, email:	Wageningen University Dr. Verena Otter (verena.otter@wur.nl)

7.1.2 Task 2.2 – Evaluating stakeholders in the selected EU's FSC networks as a basis for developing norm strategies to deal with stakeholders' digital transparency claims

WP: 2	Task: 2.2	Partner name: Wageningen University
Field	**Description / Options**	**Answers**
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP2-T2.2
Data Title	Title or short description of the dataset.	Focus group discussion for stakeholder evaluation
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary Data
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Focus group discussion
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	• Text: transcripts; • Audiovisual: video, images; • Software: Atlas.ti
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	10–100 GB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	• Transcripts: DOCX • Video: MP4; • Images: JPEG, PNG • Coding results: XLSX

Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	MS Office, Atlas.ti
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	• 9 focus group discussions of the 14 collected in T2.1 were analysed in T2.2. • Stakeholder evaluation factors were extracted by using Atlas.ti.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	N/A
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Project management, reporting, scientific analysis, dissemination, ethics compliance.
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	**DOI:** Not applicable; the dataset was not publicly deposited due to confidentiality and consent restrictions. **Access level:** Confidential. **Public licence:** Not applicable. Reuse is subject to the applicable informed consent, ethical approvals and institutional access conditions.
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	• Personal data aligned with GDPR compliance • No Sensitive data (health, financial, etc.) • Ethical approvals granted by the WU Research Ethics Committee

Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	• Website / online documentation for the publications • Executable code from Atlas.ti
Contact / Responsible Partner	Partner name, contact person, email:	Wageningen University Dr. Verena Otter (verena.otter@wur.nl) Dr. Dengxiao Lang (dengxiao.lang@wur.nl)

7.1.3 Task 2.3 – Uncovering the optimal fit between organizational structures and different digital information systems within the selected EUs FSC networks

WP: 2	**Task: 2.3**	**Partner name:** Wageningen University
Field	**Description / Options**	**Answers**
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP2-T2.3
Data Title	Title or short description of the dataset.	• 7 Focus group discussions with SMEs, policymakers • Online survey with agri-food SMEs and digital start-ups
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary Data
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	• Focus group discussions • Survey
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements)	• Text: transcripts

	Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	• Audiovisual: video, images, photos • Software: Stata • Other platform: Qualtrics
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	10–100 GB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	• Transcripts: DOCX • Video: MP4 • Images: JPEG, PNG • Coding results: XLSX
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	• MS Office • Teams • Qualtrics
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	• 7 Focus group discussions were conducted in person • The survey was circulated online through Qualtrics platform
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	N/A
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Project management, reporting, scientific analysis, dissemination, ethics compliance, and subsequent publications.
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only)	**DOI:** Not applicable; the dataset was not publicly deposited due to confidentiality and consent restrictions. **Access level:** Confidential. **Public licence:** Not applicable. Reuse is

	• License applied (e.g., CC-BY, CC0, proprietary):	subject to the applicable informed consent, ethical approvals and institutional access conditions.
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	• Personal data aligned with GDPR compliance • No Sensitive data (health, financial, etc.) • Ethical approvals granted by the WU Research Ethics Committee
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	None (the dataset will not be shared beyond specific consortium partners)
Contact / Responsible Partner	Partner name, contact person, email:	Wageningen University Dr. Verena Otter (verena.otter@wur.nl)

7.2 WP3 — Digital Technologies

As part of TUD's research approach within WP3, there is a strong connection between the data collection and analysis activities involving T3.1 - Requirements on digital technologies and methodologies for creating transparency in the food supply chain and associated cross-cutting technological challenges and T3.3 - Develop and evaluate approaches for overcoming cross-cutting challenges. The qualitative data collected and analysed for T3.1 forms the foundation for the research outcomes of T3.3. Based on this foundation, T3.3 results presents an approach to overcome cross-cutting challenges for digital transparency creation in food supply chains, and it also includes the evaluation results of the approach based on the input from selected TITAN SMEs. Due to the large overlap in datasets, the DMP activities concerning T3.1 and T3.3 are presented under one table, where the additional data from the evaluation is specifically connected to T3.3 alone. T3.2 - Create an inventory of state-of-the-art technologies and methodologies for opening data and transparency mainly relies on the literature, and it is covered in a separate table.

7.2.1 T3.1 & T3.3

WP: 3	Task: 3.1 & 3.3	Partner name: TUD
Field	Description / Options	Answers

Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP3-T3.1&T3.3-v2
Data Title	Title or short description of the dataset.	Online interviews and focus groups with TITAN SMEs and external participants, and evaluation sessions with selected TITAN SMEs.
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary data
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Interviews, focus groups, workshop material, evaluation sessions
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Text (transcripts) and audiovisual (video) (private, not to be shared) Pictures of workshops outputs (whiteboard) Evaluation surveys
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	1-10 GB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	avi/mp4 for recordings Docx/pdf for transcripts Png/bmp for pictures
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	MS Teams, MS Office, Atlas.ti, Bizagi Modeler
Generation / Collection Details	Describe how the data was generated or collected (e.g., “Survey of 200 participants using online form,” “Sensor logs from LL trials,” “Simulation outputs from WP2 model”).	Online interviews were organized in collaboration with WP2 and WP7, and separate interviews to deepen the focus on WP3

		research questions. Focus groups were conducted online with TITAN SMEs, and in-person focus group discussions were held as part of the workshop organized in collaboration with WP7. Online interviews with selected TITAN SMEs for the evaluation sessions. Signed consent is collected before all data collection activities.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	N/A
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Project deliverables reporting (D3.1, D3.4, and D3.6) and scientific publications of the PhD candidate
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	DOI: 10.5281/zenodo.17296318 Publication under preparation, the dataset contains: - Interview guides and Informed consent form templates It is made available in Zenodo with an open access level under CC-BY-SA license. DOI: 10.5281/zenodo.22127676 The dataset contains: - The standardised SME evaluation survey It is made available in Zenodo with an open

		access level under CC-BY-SA license.
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	Ethics approval was obtained before data collection was performed. No personal data in the publicly shared dataset.
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	Supporting materials are provided through the associated Zenodo records.
Contact / Responsible Partner	Partner name, contact person, email:	Delft University of Technology, Esra Zorer, e.zorer@tudelft.nl

7.2.2 T3.2 - Create an inventory of state-of-the-art technologies and methodologies for opening data and transparency

WP: 3	**Task: 3.2**	**Partner name:** TUDelft
Field	**Description / Options**	**Answers**
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP3-T3.2-State-of-the-artTechnologies-v1
Data Title	Title or short description of the dataset.	Literature review on state-of-the-art technologies and methodologies, Nov 2024
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Secondary data — published scientific literature
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Literature
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements)	Text (literature review)

	Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	1-10 GB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	PDF
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	MS Office, Zotero, Rayyan
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	Advanced search queries were searched on Scopus and Web of Science databases. The exact queries used can be found in the scientific publication: https://doi.org/10.1007/978-3-031-72234-9_36 Additional publications were identified through references from the publications appeared in the literature search. The publications were organized and screened in Zotero, Rayyan, and MS Office programs.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	N/A
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Creating an inventory of state-of-the-art technologies and methodologies that enable transparency in food supply chains. The results are shared as part of conference proceedings, and in D3.4 and M 3.7 of TITAN.

FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	DOI of the paper: https://doi.org/10.1007/978-3-031-72234-9_36 Literature review – no public data
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	N/A
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	N/A
Contact / Responsible Partner	Partner name, contact person, email:	Delft University of Technology, Esra Zorer, e.zorer@tudelft.nl

7.2.3 T3.4 — Framework of ontologies enabling data interoperability along the supply chain

WP: 3	Task: 3.4	Partner name: INRAE
Field	Description / Options	Answers
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	T3.4 NSR-Food
Data Title	Title	Recommended Network of Semantic Resources for the Food Supply Chain
Origin of Data	Secondary data (re-used from external sources)	Secondary data: reuse from semantic resource platform like AgroPortal https://agroportal.eu/ or BioPortal https://bioportal.bioontology.org/
Data Collection Method	Select one or more: Other (search on platform)	Metadata only :

		the semantic resources were found on the semantic resource platform, or web platform
Content / Data Type	Text (notes, reports, transcripts)	a textual description of the resource
Volume / Size	Indicate approximate size:	<100 MB
File Formats	Specify all formats used	PDF
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	PDF reader, web browser, protégé tool, xml reader
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	Based on the different pilot use cases, a selection of semantic resources was made thanks to MISTEA expertise.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	Agroportal or BioPortal provide a short description, a link to the original source, the license information, and store several versions of the semantic resources.
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Reusing semantic resources should help to organize some datasets and share them with different partners. Semantic resources could be used to build a common data schema. They could be reused as a common controlled vocabulary to exchange reference data.
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	Bernadette Durand, Catherine Roussey. The Recommended Network of Semantic Resources for the Food Supply Chain. 2026, 9 p. ⟨10.5281/zenodo.17249682⟩. ⟨hal-05461334⟩ Access open License: **CC0 1.0 Universal**

Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	none
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	Agroportal has an API to access semantic resources
Contact / Responsible Partner	Partner name, contact person, email:	Catherine Roussey catherine.roussey@inrae.fr

7.3 WP4 — Pilots for food safety

7.3.1 Task 4.1a - Demonstration of traceability and authenticity in the olive supply chain

WP: 4	**Task: 4.1a**	**Partner name:** FOCOS
Field	**Description / Options**	**Answers**
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP4-T4.1a-OliveOil-v1
Data Title	Title or short description of the dataset.	Olive cultivar SNP genotyping sequences and blockchain traceability data model (Task 4.1a).
Origin of Data	Primary data (collected/generated within project)	Primary data, generated within the project. The task also builds on secondary results from the H2020 project OLEUM, which developed and validated analytical methods for olive oil (Grant Agreement Annex 1, WP4 description).
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling	Measurements: laboratory DNA sequencing and SNP genotyping (Cycloartenol synthase OEX and Lupeol synthase OEW gene fragments; custom TaqMan SNP Genotyping Assays). Demonstrations: mock blockchain demonstrator tested with synthetic inputs.

	Administrative / project records Other (specify)	
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Numeric: DNA sequence and genotyping assay data. Software / code: blockchain data schema and JSON-formatted analytical output records (fields: runId, methodVersion, timestamp, result).
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	100 MB–1 GB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	JSON, used for blockchain analytical output records. Format(s) for the GenBank sequence submissions and other outputs: FASTA
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	Geneious Prime, used for bioinformatic analysis of sequencing data. (Geneious Prime® version 2024.0.7)
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	INL and the University of Santiago de Compostela (USC) sequenced two olive gene fragments, Cycloartenol synthase (OEX) and Lupeol synthase (OEW), across five olive cultivars, and submitted twelve new sequences to GenBank. Custom TaqMan SNP Genotyping Assays were designed and optimised from the resulting single nucleotide polymorphisms. Vegetal samples were collected from Cyprus, Turkey (Turkish/Syrian border region), Spain,

		and Portugal. Open Food Chain (formerly TNF) built the blockchain data model and a mock demonstrator, tested with synthetic inputs; no live analytical data had been linked to the blockchain at the time of reporting.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	Two named secondary sources: (1) the H2020 project OLEUM, whose validated analytical methods for olive oil the task builds on (Grant Agreement Annex 1, WP4 description) (2) Comparative analysis used unnamed public genomic datasets to identify informative single nucleotide polymorphisms; Publicly available nucleotide sequences of *Olea europaea* genes, including *lupeol synthase* (OEW) and *cycloartenol synthase* (OEX), were retrieved from the NCBI GenBank database and used for comparative sequence analysis and SNP identification. Dataset: GenBank Nucleotide Database. Source: National Center for Biotechnology Information (NCBI). GenBank accession numbers: OEW: AY847066.1, MW033193.1, MW033194, MW033195, JN656238.1, JN656236.1, JN656239.1, JN656240.1, JN656241.1, JN656235.1, JN656237.1, LN879510.1, LN879509.1, OA985245.1 and MK8128(86-97); OEX: MW033196.1, MW033197.1, MW033198, XM_022995069_72, AB025344 and AY847065. DOI: not applicable (individual GenBank records do not have a DOI). License: publicly available through the International Nucleotide Sequence Database Collaboration (INSDC).
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination,	Supports Task 4.1a, demonstration of traceability and authenticity in the olive supply chain, combining DNA-based cultivar authentication with blockchain-based traceability records.

	dissemination, ethics compliance).	
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	**DOI:** Not reported. **Link/URL or location:** NCBI GenBank. Twelve project-generated sequences were deposited under accession numbers PV067672, PV067673, PV089797–PV089801 and PV176823–PV176827. **Access level:** Open. **License:** Not reported.
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	Source documents describe genetic material from olive plants and do not indicate personal or sensitive data for this task. No ethics approval is required for Task 4.1a.
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	Two related academic outputs are mentioned: a master's thesis at USC on OEX (completed February 2025), a second master's thesis on OEW (ongoing), and a scientific manuscript in preparation. Master Thesis: *Desenvolvemento dun método rápido para asegurar a identidade varietal en aceites de oliva* (USC) by Lidia Barreira (2025) https://hdl.handle.net/10347/44460 *Evaluación del gen Lupeol para el desarrollo de métodos rápidos para la identificación de variedades de aceituna para la industria oleícola (USC) by Ana Clementina FERNANDEZ FARIÑAS (2026)* *Accepted publication:* *Lidia Barreira, Carla Teixeira, Ana C Fernández, Isabel Trujillo, Pilar Calo-Mata, Marta Prado; Development of a SNP-Based Genotyping Assay for faster Olivar Varietal*

		Authentication: Towards Applications in Olive-Derived Foods and Miniaturized Platforms. Sustainable Food Technol. 2026; https://doi.org/10.1039/D6FB00020G
Contact / Responsible Partner	Partner name, contact person, email:	Marta Prado, USC/INL, marta.prado@usc.es

7.3.2 Task 4.1b - Development of a traceability system and food safety testing for the presence of undeclared food allergens

WP: 4	**Task: 4.1b**	**Partner name:** FOCOS
Field	**Description / Options**	**Answers**
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	TITAN_WP4_T4.1b_AllergenDetectionAndRiskPrediction
Data Title	Title or short description of the dataset.	DNA-based allergen (sesame and lupine) detection assay data and AI risk-prediction model training data (Task 4.1b).
Origin of Data	Primary data (collected/generated within project)	Primary data for the laboratory assay results, generated within the project. Model training data are of mixed origin. They include primary data generated during the pilot with the associated bakery company, covering production, batch, allergen-check and test-result information. Additional secondary data were used to enrich the AI risk-prediction model. These include Foodakai data, obtained through AgroKnow's food-safety intelligence platform, containing historical allergen and food-safety incident records, as well as RASFF data from the EU Rapid Alert System for Food and Feed.

Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Measurements: qPCR, RPA (Recombinase Polymerase Amplification), and LAMP (Loop-mediated Isothermal Amplification) assay testing on spiked food matrices (cookies, wheat flour). Simulation / modeling: machine-learning risk-prediction model and retraining pipeline developed by AI Talentum. Administrative / project records: ingredient lists and historical DNA test outcome records obtained from a Dutch bakery partner.
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Numeric: assay detection-limit and calibration-curve data. LAMP: 1 pg (sesame), 0.1 pg (lupine). qPCR: 0.01 pg (sesame), 0.1 pg (lupine). Risk prediction model: **tabular data, ML features/predictions, serialized model, and supporting documentation.** Software / code: AI risk-prediction model and associated workflow. Source: PR_CORE_2, section 1.2.4.2.
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	<100 MB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	Risk prediction model: CSV, XLSX,PDF, PYTHON scripts and utilities (.py, .ipynb, .pkl, .joblib)
Software Required	List software needed to access/use data	Python/Jupyter environment with the project-specified requirements, Microsoft Office.

	(e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	INL and USC optimised DNA-based detection methods for sesame and lupine (qPCR, RPA, LAMP), tested on spiked food matrices including cookies and wheat flour to simulate contamination. LAMP primers targeted the Internal Transcribed Spacer region for sesame and three lupine species. AI Talentum compiled and curated ingredient lists and historical DNA test outcomes from a Dutch bakery partner under a non-disclosure agreement, conducted exploratory data analysis, and generated synthetic records because the original data had limited positive cases and inconsistent record structure. External Foodakai and RASFF food-safety incident data were also integrated to enrich the AI risk-prediction model.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	Secondary sources included results and methodological knowledge from the EIT Food VITAL project, historical ingredient and DNA-test records provided by a Dutch bakery partner under a non-disclosure agreement, Foodakai food-safety intelligence records, and data from the EU Rapid Alert System for Food and Feed (RASFF). No public identifier or licence was reported for the bakery dataset because it was provided under confidentiality restrictions.
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Supports Task 4.1b, detection of undeclared sesame and lupine allergens through combined DNA-based testing and AI-based contamination-risk prediction .

FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	**DOI:** No task-level public dataset DOI was assigned. **Location/access:** Bakery-derived records are confidential and held under a non-disclosure agreement. Laboratory assay data and model artefacts were not reported as publicly deposited at project closure. **Access level:** Restricted/Confidential, depending on the data component. **Licence:** No public data licence was assigned to the restricted dataset components.
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	The bakery-derived records are commercially sensitive and governed by a non-disclosure agreement. No human-participant dataset was reported for the laboratory assay component, and no additional ethics approval requirement was reported for Task 4.1b.
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	Risk-prediction model: README, documented code, executable pipeline and supporting documentation are available. Related academic output: master's thesis at USC, defended February 2025, covering qPCR optimisation for sesame detection and RPA primer design, and a scientific manuscript in preparation. These are publications, not dataset documentation. Master thesis: *Desarrollo y evaluación de un método rápido para la detección de trazas de sésamo a partir de muestras de panadería (USC) by Uxía Rodríguez García* Risk prediction model: README available, documented code, documented executable pipeline, and supporting documentation.

Contact / Responsible Partner	Partner name, contact person, email:	Marta Prado, USC/INL, marta.prado@usc.es FOCOS GmbH (task lead; beneficiary P4, Germany), per Grant Agreement Annex 1 Amendment AMD-101060739-1.

7.3.3 T4.1c — Microbiology of fermented food products, safety demonstration of food cultures

No final dataset information was provided for this task for inclusion in D1.6. Consequently, no dataset record can be reported in the final DMP based on the information available to the coordination team at project closure. No public repository deposit or DOI is therefore recorded for this task.

7.3.4 Task 4.1d - Omics and molecular approaches for microbial and chemical quality of long shelf-life food products

WP: 4	Task: T4.1d	Partner name: UCSC
Field	Description / Options	Answers
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP4-T4.1d_ONT reads
Data Title	Title or short description of the dataset.	Oxford Nanopore reads obtained through *tuf*-gene amplicon sequencing of a simple *Bacillus* spp. mock community, artificially contaminated plant-based products spiked with *Bacillus* spores and from DNA of 40 commercial plant-based products.
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Other: Experimental laboratory data collection
Content / Data Type	Text (notes, reports, transcripts)	Metadata files

	Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	10-100 GB (around 40GB)
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	.FastQ
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	• MinKNOW (v23.11.5) for ONT sequencing and reads generation, • Dorado (v0.5.3) for super accurate base-calling • Nanoplot (for quality reads), • Epi2meLabs (v5.1.10) (with customized options) for microbial identification, • Notepad to access reads, • R studio (ver. 1.4.1106) for data elaboration.
Generation / Collection Details	Describe how the data was generated or collected (e.g., “Survey of 200 participants using online form,” “Sensor logs from LL trials,” “Simulation outputs from WP2 model”).	Data were generated through DNA sequencing using Oxford Nanopore Technologies (ONT) on a MinION device. Libraries were prepared following the Native Barcoding Kit 24 v14 protocol. Sequencing was carried out on MinION R10.4.1 flow cells. Signal

		acquisition and basecalling (Super Accuracy mode) were performed using ONT software (MinKNOW and Dorado), and reads were filtered based on quality and length. Taxonomic classification was performed using Minimap2 against custom-made BacTufDB database.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	None
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Scientific analysis
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	DOI: not applicable Location: deposited in the NCBI Sequence Read Archive (SRA), under the BioProject PRJNA1158730 (Biosamples: SAMN43546484 - SAMN43546573; SAMN47172496 - SAMN47172535; SAMN47177166 - SAMN47177271; SAMN47178037 - SAMN47178138). Link: ID 1158730 - BioProject - NCBI Access level: Open
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	No personal data. No sensitive data. No ethical approval is required.
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint	Supporting materials such as a README file, scripts, or APIs are not provided because all data analyses were conducted using standard and publicly

	None (explain why)	available tools (e.g., Minimap2, R packages, ONT software).
Contact / Responsible Partner	Partner name, contact person, email:	UCSC, Vania Patrone, Vania.patrone@unicatt.it

WP: 4	Task: 4.1d	Partner name: UCSC
Field	Description / Options	Answers
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP4-T4.1d_Research_paper1
Data Title	Title or short description of the dataset.	Nanopore-based amplicon sequencing for rapid detection and identification of Bacillus spp. in plant-based products
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary data
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Measurements
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Text, numeric, images
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	<100 MB

File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	DOCX, PDF, XLSX, TIFF
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	QuantaSoft™ software, version 1.7, Geneious Prime software (version 2020.1.2), Dorado (v0.5.3), EPI2ME Labs platform (v5.1.10), GraphPad Prism (version 8.00), NCBI Blast, PAST software (v4.17).
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	The paper was produced using data generated from the analysis of plant-based food products and supplements for Bacillus contamination through targeted amplification of the *Bacillus* tuf gene followed by Oxford Nanopore MinION sequencing. The resulting sequence data were compared with a custom Bacillus tuf database and validated against 16S rRNA sequencing and culture-based methods.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	NCBI RefSeq database
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Scientific analysis, dissemination
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	DOI of the paper: 10.3389/fmicb.2025.1701533. Access level: Open. License applied: Creative Commons Attribution License (CC-BY).
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance)	N/A

	• Sensitive data (health, financial, etc.) • Ethical approvals required.	
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	N/A
Contact / Responsible Partner	Partner name, contact person, email:	UCSC, Vania Patrone, Vania.patrone@unicatt.it

WP: 4	Task: 4.1d	Partner name: UCSC
Field	**Description / Options**	**Answers**
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP4-T4.1d_Research_paper2
Data Title	Title or short description of the dataset.	Development of fluorescence and colorimetric LAMP-based assays for rapid and sensitive detection of toxigenic Bacillus cereus group strains in plant-based products
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary data
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Measurements
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only	Text, tables, images

	Other (specify)	
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	<100 MB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	DOCX, PDF, XLSX, TIFF
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	NEB® Primer Design Tool (New England Biolabs, https://www.neb.com/en/neb-primer-des ign-tools), GraphPad.
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	The paper was produced using data generated from the analysis of plant-based food products and supplements for Bacillus contamination through LAMP analysis
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	NCBI Gene database
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Scientific analysis, dissemination
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	DOI: 10.1016/j.foodcont.2026.112113. Zenodo: 10.5281/zenodo.22144426. Access level: Open License applied: Creative Commons Attribution License (CC-BY).
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	N/A
Documentation / Accessibility	Indicate whether supporting materials exist:	N/A

	README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	
Contact / Responsible Partner	Partner name, contact person, email:	UCSC, Vania Patrone, Vania.patrone@unicatt.it

7.3.5 T4.1e - Real-time & intelligent data sharing for verification of honey and herbs suppliers.

No final dataset information was provided for this task for inclusion in D1.6. Consequently, no dataset record can be reported in the final DMP based on the information available to the coordination team at project closure. No public repository deposit or DOI is therefore recorded for this task.

7.4 WP5 — Pilots for sustainability

7.4.1 T5.1a Developing a new traceability tool to help farmers to grow tomato more sustainably

WP: 5	Task: 5.1a	Partner name: Agricolus
Field	**Description / Options**	Fields: crop, crop use, soil management Crop details (variety, yield, ect.), Irrigation system details, Field details (soil texture, management types, slope etc.) Data from Weather forecast. Data from Satellite index Data from Smart scouting (pest and diseases, crop damage, phenology); Data from Crop operations, machinery. Production lots information Agriplug data
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP5#T5.1a
Data Title	Title or short description of the dataset.	Agri data, 7 July 2026
Origin of Data	☐ *Primary data (collected/generated within project)*	Primary data (collected/generated within project)

	☐ *Secondary data (re-used from external sources)*	
Data Collection Method	*Select one or more:* ☐ *Interviews* ☐ *Surveys* ☐ *Measurements* ☐ *Demonstrations* ☐ *Literature* ☐ *Sensor data* ☐ *Simulation / modeling* ☐ *Administrative / project records* ☐ *Other (specify)*	Survey – Measurements – sensor data
Content / Data Type	☐ *Text (notes, reports, transcripts)* ☐ *Numeric (tables, counts, measurements)* ☐ *Audiovisual (images, sound, video, presentations)* ☐ *Software / code* ☐ *Metadata only* ☐ *Other (specify)*	Text (agricultural attributes); Numeric (specific domain values of agricultural attributes)
Volume / Size	*Indicate approximate size:* ☐ *<100 MB* ☐ *100 MB–1 GB* ☐ *1–10 GB* ☐ *10–100 GB* ☐ *>100 GB (Specify if applicable)*	<100 MB
File Formats	*Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).*	Xlsx
Software Required	*List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).*	Ms Office

Generation / Collection Details	*Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").*	4 farmer/agronomist have used Agricolus web platform to collect data and data collected through Agriplug Hardware
Source of Secondary Data (if used)	*Provide details of external data (dataset title, source, DOI, license).*	For Phytosanitary product (Fitogest) Italian recognized database https://fitogest.imagelinenetwork.com/it/banca-dati-e-portale/
Purpose of Data	*Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).*	Internal Test of lot features
FAIR & Sharing	*Indicate:* *• DOI (e.g., via Zenodo, institutional repository):* *• Link/URL or location* *• Access level:* ☐ *Open* ☐ *Restricted* ☐ *Confidential (consortium only)* *• License applied (e.g., CC-BY, CC0, proprietary):*	DOI (e.g., via Zenodo, institutional repository): N/A • Link/URL or location: Agricolus internal company repository; access may be requested through the responsible contact listed below. • Access level: Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary): proprietary
Ethical / Legal Considerations	*Note if data includes:* *• Personal data (GDPR compliance)* *• Sensitive data (health, financial, etc.)* *• Ethical approvals required.*	N/A
Documentation / Accessibility	*Indicate whether supporting materials exist:* ☐ *README file* ☐ *Website / online documentation*	README file

	☐ *Executable code / scripts* ☐ *API or service endpoint* ☐ *None (explain why)*	
Contact / Responsible Partner	*Partner name, contact person, email:*	Agricolus, Sofia Maria Lilli, sm.lilli@agricolus.com

7.4.2 T5.1b Developing a new traceability tool to help farmers to grow rice more sustainably

WP: 5	**Task: 5.1b**	**Partner name:** Agricolus
Field	**Description / Options**	Fields: crop, crop use, soil management Crop details (variety, yield, ect.), Irrigation system details, Field details (soil texture, management types, slope etc.) Data from Weather forecast. Data from Satellite index Data from Smart scouting (pest and diseases, crop damage, phenology); Data from Crop operations, machinery. Production lots information Agriplug data
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP5#T5.1b
Data Title	Title or short description of the dataset.	Agri data, 7 July 2026
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary data (collected/generated within project)
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Survey – Measurements – sensor data
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements)	Text (agricultural attributes); Numeric (specific domain values of agricultural attributes)

	Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	<100 MB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	Xlsx
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	Ms Office~~,~~
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	4 farmer/agronomist have used Agricolus web platform to collect data and data collected through Agriplug Hardware
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	For Phytosanitary product (Fitogest) Italian recognized database https://fitogest.imagelinenetwork.com/it/banca-dati-e-portale/
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Internal Test of lot features
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	DOI (e.g., via Zenodo, institutional repository): N/A • Link/URL or location : Agricolus internal company repository; access may be requested through the responsible contact listed below. • Access level: Confidential (consortium only) X • License applied (e.g., CC-BY, CC0, proprietary): proprietary
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.)	N/A

	• Ethical approvals required.	
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	README file
Contact / Responsible Partner	Partner name, contact person, email:	Agricolus, Sofia Maria Lilli, sm.lilli@agricolus.com

7.4.3 T5.1c Development of a common language for growers and purchasers of fruits and vegetables.

Data generated under T5.1c was previously reported in D1.5 by CONSENTIO and included anonymised platform activity data related to the pilot. No additional or updated dataset information was provided for D1.6. Therefore, the dataset information reported in D1.5 remains the latest available record for this task, and no additional public repository deposit or DOI is recorded in this final update.

7.4.4 T5.1d Setting up the supply chain for carbon certificates in almond production

WP: 5	Task: 5.1d	**Partner name:** AgriMarketplace
Field	Description / Options	Answers
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	TITAN_WP5_T51d_AlmondCarbon_01
Data Title	Title or short description of the dataset.	Supply Chain Carbon Footprint & Soil Carbon Tracking Dataset for Portuguese Almond Production
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary data & Secondary data
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling	Measurements, Sensor data, Simulation / modeling, Administrative / project records

	Administrative / project records Other (specify)	
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Text, Numeric, Metadata only
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	<100MB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	CSV, XLSX, PDF, JSON
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	MS Excel / Web Browser / Standard JSON viewer
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	Field logs (*caderno de campo*) collected from pilot almond farms in Portugal, near-infrared (NIR) soil scanning measurements, and automated emissions calculation outputs processed via the TITAN carbon calculator pipeline
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	IPCC Emission Factors for Agriculture / Agribalyse open environmental database
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Pilot demonstration of blockchain-backed supply chain certification and soil carbon tracking for sustainable almond production
FAIR & Sharing	Indicate:	**DOI:** N/A (Internal dataset, not assigned a public DOI)

	• DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	**Link/URL or location:** Available via internal company repository (shared upon request via email) **Access level:** Confidential (consortium only) **License applied:** Proprietary
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	Includes commercial/financial farm records and geographical location data. All datasets are anonymized to ensure GDPR compliance and protect farmers' commercial confidentiality
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	README file, Executable code / scripts (calculator methodology & API integration docs)
Contact / Responsible Partner	Partner name, contact person, email:	AgriMarketplace Tiago Pessoa tpessoa@agrimp.com

7.4.5 T5.1e "Improving the transparency in the Vietnamese shrimp supply chain by implementing digital traceability"

No digital dataset was produced or retained for this task. Stakeholder interviews and discussions were documented only in paper notebooks, which were not digitised, scanned or transcribed. Consequently, no dataset is available for repository deposit or reuse.

7.4.6 T5.1f Development of a fully automated inventory system for the hospitality sector

Dataset information for T5.1f was already reported in D1.5. No additional or updated dataset information was provided for D1.6; therefore, D1.5 remains the reference for the data generated under this task.

7.5 WP6 — Pilots for Health

7.5.1 T6.1a Pilot on simple affordable blockchain traceability systems for agrifood SMEs

No final dataset information was provided for this task for inclusion in D1.6. Consequently, no dataset record can be reported in the final DMP based on the information available to the coordination team at project closure. No public repository deposit or DOI is therefore recorded for this task.

7.5.2 T6.1b Pilot on using special anti-counterfeiting QR-codes that use steganography and cryptography

No final dataset information was provided for this task for inclusion in D1.6. Consequently, no dataset record can be reported in the final DMP based on the information available to the coordination team at project closure. No public repository deposit or DOI is therefore recorded for this task.

7.5.3 T6.1c Healthy nutritional habits for kids.

WP: 6	Task: 6.1c	Partner name: AZTI
Field	Description / Options	Answers
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP6-T6.1 +c-FactsDB
Data Title	Title or short description of the dataset.	Database of contents related with health,food, and sustainable food to feed the chatbot.
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary data
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Literature
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Text, images of food, Numeric (Excel files with survey results)
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	1–10 GB

File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	MysSQL database containing text and routes to JPEG/PNG images. XLSX
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	SQL database Client
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	Generated by partners: Data specifically designed by experts in nutrition and kids behaviour.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	None
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	It's the source of data for the chatbot developed
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	DOI: not applicable Location: in partners preliminar server. Access level: Confidential (Consortium only)
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	No personal data. Commercially sensitive.
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	Excel files generated by the partners in the process of creation of the database. Descriptions of the tables in the database.
Contact / Responsible Partner	Partner name, contact person, email:	Data owner/responsible partner: AITALENTUM, AZTI

WP: 6	Task: 6.1c	Partner name: AZTI

Field	Description / Options	Answers
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP6-T6.1+c-FoodBehaviour
Data Title	Title or short description of the dataset.	Quantitative data on children's food behaviour: adherence to healthy and sustainable eating habits in families with children
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary data
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Survey
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Numeric (tables, counts, measurements)
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	<100 MB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	XLSX
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	MS Office
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	Survey of 720 families with children in 3 countries (Finland, Poland, Spain) using online form

Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	None
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Scientific analysis
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	Location: AZTI server Access level: Confidential (consortium only)
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	Sociodemographic and personal data. GDPR compliance and ethics approval granted by AZTI
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	No additional public dataset documentation was reported. The dataset remains under the control of AZTI and is subject to the ethical and GDPR restrictions described above.
Contact / Responsible Partner	Partner name, contact person, email:	Data owner/responsible partner: AZTI

WP: 6	Task: 6.1c	Partner name: AZTI
Field	Description / Options	Answers
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP6-T6.1+c-CoDesign
Data Title	Title or short description of the dataset.	Qualitive data from different groups involved in the design and orientation of the tool to be developed in this pilot

Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary data
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Interviews with stakeholders and focus groups with children and families in 3 countries (Finland, Poland, Spain)
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Text (notes, reports, transcripts)
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	<100 MB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	DOCX
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	MS Office
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	24 online interviews with stakeholders and 8 in person focus groups, 6 with children and 2 with families
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	None
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Scientific analysis

FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	Location: AZTI server Access level: Confidential (consortium only)
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	Personal data. GDPR compliance and ethics approval granted by AZTI
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	No additional public dataset documentation was reported. The dataset remains under the control of AZTI and is subject to the ethical and GDPR restrictions described above.
Contact / Responsible Partner	Partner name, contact person, email:	Data owner/responsible partner: AZTI

WP: 6	Task: 6.1c	Partner name: AZTI
Field	Description / Options	Answers
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP6-T6.1+c-PLATFORM
Data Title	Title or short description of the dataset.	NutriTitans: Educational web platform on healthy and sustainable food habits for children
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary and secondary data
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data	Literature; Demonstration; Other: educational content creation, software development and automated platform logging

	Simulation / modeling Administrative / project records Other (specify)	
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Text, numeric data, audiovisual material, software/code and metadata
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	100 MB–1 GB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	HTML, CSS, JavaScript/TypeScript, JSON, CSV, SQL, PDF, DOCX, JPEG, PNG, SVG and ZIP
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	PDF/office-compatible reader; technical development framework, database and runtime environment
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	Educational materials were created and curated from scientific and official sources, adapted for children and integrated into a web platform.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	TITAN partner materials database (WP6-T6.1 +c-FactsDB) and licensed audiovisual resources.
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Education, awareness raising, classroom activities, chatbot operation, demonstration of project results and platform evaluation
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted	**DOI: Not assigned.** **Location: https://titandev.isotader.com/** **Access: Public platform and selected materials are openly accessible; technical code and non-public components**

	Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	remain restricted/proprietary unless otherwise agreed. Licence: No separate public licence for the technical code was reported.
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	Platform addressed to children; privacy by design and data minimisation applied. No collection of sensitive data intended.
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	Technical documentation, Source code and deployment scripts
Contact / Responsible Partner	Partner name, contact person, email:	Data owner/responsible partner: AZTI. Technical developer/data processor: AI Talentum Contact person: Amparo Roca, COO, aroca@aitalentum.com

WP: 6	Task: 6.1c	Partner name: AZTI
Field	Description / Options	Answers
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP6-T6.1+c-CHATBOT
Data Title	Title or short description of the dataset.	Guided retrieval-based educational chatbot on healthy and sustainable food habits for children
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary and secondary data. Primary data include the chatbot conversation flows, predefined answers, thematic categories, response rules, associated images, and technical configuration developed within the TITAN project. Secondary data include educational materials elaborated by project partners

		used to prepare and validate the chatbot content.
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Other: expert-based educational content creation, content curation, software development and chatbot interaction logging.
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Text; Audiovisual; Software/code; Metadata; Numeric data, where usage statistics are generated. The dataset includes predefined answers, educational messages, image references, thematic labels, navigation options, retrieval rules, configuration files and, where applicable, aggregated interaction statistics.
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	<100 MB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	JSON, CSV, TXT, Markdown, HTML, JavaScript/TypeScript, JPEG, PNG, SVG, PDF and SQL/database export formats, where applicable.
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	A standard and updated web browser is required for end-user access. Technical access and reuse may require Python, RASA, MySQL, a source-code editor and the corresponding server/runtime environment. PDF-compatible software may be required to consult supporting documentation.

Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	The chatbot content was created and curated within Task 6.1c by project partners. It was made using scientific literature, official recommendations and educational materials relating to healthy and sustainable food habits. The information was adapted to language suitable for children and structured into thematic categories, predefined questions, validated answers and associated images. The chatbot follows a guided retrieval-based approach: users select or submit permitted questions and the system retrieves the corresponding validated response from a predefined knowledge base, rather than generating unrestricted answers. The chatbot was integrated into the TITAN educational web platform and has been assessed through internal testing, demonstrations and classroom-related pilot activities.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	Secondary sources include educational resources and materials provided by TITAN partners (WP6-T6.1 +c-FactsDB).
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	To provide children with accessible and validated information about healthy and sustainable food habits through a guided interactive tool. The data are used to operate the chatbot, support educational and classroom activities, reinforce the learning content of the TITAN

		platform, demonstrate the results of Task 6.1c and improve the usability and educational effectiveness of the tool.
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	DOI: Not assigned. Location: https://titandev.isotader.com/ Access: Public platform and selected materials are openly accessible; technical code and non-public components remain restricted/proprietary unless otherwise agreed. Licence: No separate public licence for the technical code was reported.
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	The chatbot is intended for use by children and is therefore designed according to the principles of privacy by design, data minimisation and child-appropriate interaction. It does not request names, contact details, precise location, health conditions or other unnecessary personal information. The guided retrieval-based design limits unrestricted free-text input and provides predefined, validated educational responses. No special-category health data are intended to be collected. Interaction logs are retained, but they are anonymous or pseudonymised, limited to what is necessary, protected through access controls and kept only for a defined period.
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint	Executable code that creates a service and exposes a consultable and documented API. Accesible chatbot interface trough the platform. Supporting materials may

	None (explain why)	include user guidance, technical documentation, version history and deployment instructions.
Contact / Responsible Partner	Partner name, contact person, email:	Data owner/responsible partner: AZTI. Technical developer/data processor: AI Talentum Contact person: Amparo Roca, COO, aroca@aitalentum.com

WP: 6	Task: 6.1c	Partner name: AZTI
Field	Description / Options	Answers
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP6-T6.1+c-CHATBOT-LOGS
Data Title	Title or short description of the dataset.	Anonymised Chatbot Interaction and Usage Logs
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary data. The data are generated automatically through users' interactions with the guided retrieval-based chatbot developed within Task 6.1c of the TITAN project.
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Demonstrations; Administrative/project records; Other: automated collection of anonymised chatbot interaction and usage logs.
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Text; Numeric; Metadata. The dataset may include anonymised questions or selected interaction options, retrieved answer identifiers, thematic categories, interaction timestamps, session duration, number of interactions, navigation paths, response status,

		language, device type and aggregated usage statistics. No directly identifying personal data are included.
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	<100 MB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	CSV, JSON, SQL/database export formats and XLSX, where data are exported for analysis or reporting.
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	A spreadsheet application such as Microsoft Excel or equivalent may be used for CSV or XLSX files. JSON files can be accessed using a text editor or data-analysis software. Technical processing may require Python, R, SQL tools or the platform's database management system.
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	The logs are generated automatically when users interact with the chatbot through the TITAN educational web platform. Each interaction is recorded using a randomly generated or non-identifying session reference. The logs may register the selected question or interaction route, the identifier of the answer retrieved from the validated knowledge base, the date and time of the interaction, basic technical information and aggregated usage indicators. Direct identifiers such as names, email addresses, usernames, IP addresses or precise locations are not

		included in the analytical dataset.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	Not applicable. The dataset is generated directly through use of the TITAN chatbot. No external datasets are incorporated into the interaction logs.
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	The data are used to evaluate chatbot use, identify the most frequently consulted topics, assess interaction flows, detect technical errors, improve usability and educational content, support pilot evaluation and provide aggregated evidence for project reporting and dissemination. The data are not intended for profiling, automated decision-making or individual evaluation of children.
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	Not assigned and not currently foreseen. Access level: Confidential (consortium only)
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	The dataset is designed to contain no directly or indirectly identifiable personal data. Identifiers are removed or replaced before analysis, and only the information necessary to assess the operation and use of the chatbot is retained. Free-text input should be avoided or filtered to prevent users

		from entering personal information. IP addresses, account details, names and contact information are not included in the analytical logs. Access controls, secure storage, limited retention periods and deletion procedures are applied. Although the dataset is anonymised, periodic checks should be carried out to ensure that combinations of timestamps, session data or technical attributes do not create a re-identification risk, particularly because the platform is intended for children.
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	Executable code / scripts
Contact / Responsible Partner	Partner name, contact person, email:	Data owner/responsible partner: AZTI. Technical developer/data processor: AI Talentum Contact person: Amparo Roca, COO, aroca@aitalentum.com

WP: 6	**Task: 6.1c**	**Partner name:** AZTI
Field	**Description / Options**	**Answers**
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP6-T6.1+c-GAME
Data Title	Title or short description of the dataset.	Heffy ‘s Adventure interactive game
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary and secondary data. Primary data include the game narrative, missions, challenges,

		questions, answer options, scoring rules, characters, graphic assets, interface elements, game configuration and software developed within the TITAN project. Secondary data include educational materials used to define and validate the game content.
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Demonstrations; Other: educational content creation, game design, software development, classroom testing
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Text; Numeric; Audiovisual; Software/code; Metadata. The dataset includes narrative texts, instructions, questions, answer options, feedback messages, missions, challenges, scores, progress indicators, characters, illustrations, interface assets, animation resources, configuration files and source code.
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	100 MB–1 GB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	HTML, CSS, PHP, JavaScript/TypeScript, JSON, CSV, SQL/database export formats, TXT, Markdown, JPEG, PNG, SVG, WEBP, GIF, MP3, WAV, MP4 and ZIP

Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	A standard updated web browser is required to access and play the game. Technical access or reuse may require HTML, CSS, PHP, JavaScript, SQL, SO Linux.
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	The educational game was designed and developed within Task 6.1c as part of the TITAN web platform. It uses a fictional space-adventure narrative in which children help the character Heffy recover healthy and sustainable foods and acquire better eating habits to support the inhabitants of the fictional planet Jupitrón. The learning content was adapted to children and organised into missions, challenges, questions, possible answers, feedback and game progression rules. Teachers can use the game as an interactive classroom activity with their pupils. Game content and mechanics may be reviewed through internal testing, demonstrations and classroom-related pilot activities.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	Secondary sources include educational materials and content supplied or validated by TITAN partners.
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	The data are used to provide children with an engaging educational experience concerning healthy and sustainable food habits; support teacher-led classroom activities; reinforce the

		educational content of the TITAN platform; evaluate comprehension through challenges and feedback; demonstrate the results of Task 6.1c; and improve the usability and educational effectiveness of the game.
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	**DOI:** Not assigned. **Location:** TITAN educational web platform. **Access:** The game is accessible through the public platform; technical/source-code components remain restricted unless otherwise agreed. **Licence:** No separate public reuse licence was reported for the technical assets.
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	The game is intended for use by children and followS privacy-by-design, data-minimisation and child-appropriate design principles. It does not require children to provide names, email addresses, precise locations, health conditions or other unnecessary personal information. Scores and progress data are anonymous and not used to profile, rank or make decisions about individual children. If teachers create sessions or classroom groups, identifiers are generic and do not directly identify pupils.
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation	Executable code/scripts; Teacher guidance; User instructions.

	Executable code / scripts API or service endpoint None (explain why)	
Contact / Responsible Partner	Partner name, contact person, email:	Data owner/responsible partner: AZTI. Technical developer/data processor: AI Talentum Contact person: Amparo Roca, COO, aroca@aitalentum.com

WP: 6	Task: 6.1c	Partner name: AZTI
Field	Description / Options	Answers
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP6-T6.1+c-PILOT-ES
Data Title	Title or short description of the dataset.	Qualitative data collected during the pilot implementation of the TITAN platform in two Spanish school
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary data
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Intervention: pre-post questionnaires including change in knowledge and behaviour and participation evaluation
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Numeric (tables, counts, measurements)
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB	<100 MB

	1–10 GB 10–100 GB >100 GB (Specify if applicable)	
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	XLSX
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	MS Office
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	Pre-post questionaries to 204 students 10-12 years old using paper form
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Scientific analysis
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	Location: AZTI server Access level: Confidential (consortium only)
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	Sociodemographic and personal data. GDPR compliance and ethics approval granted by AZTI
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	No additional public dataset documentation was reported. The dataset remains under the control of AZTI and is subject to the ethical and GDPR restrictions described above.

Contact / Responsible Partner	Partner name, contact person, email:	Data owner/responsible partner: AZTI

WP: 6	**Task: 6.1c**	**Partner name:** AZTI
Field	**Description / Options**	**Answers**
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP6-T6.1+c-TRANSVALID
Data Title	Title or short description of the dataset.	Qualitive data from different groups involved in the validation of the tool developed in this pilot
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary data
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Interviews with stakeholders and children and families, and focus groups with children in 3 countries (Finland, Poland, Spain)
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Text (notes, reports, transcripts)
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	<100 MB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	DOCX

Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	MS Office
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	12 online interviews with stakeholders and families, and 5 in person focus groups with children
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Scientific analysis
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	Location: AZTI server Access level: Confidential (consortium only)
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	Personal data. GDPR compliance and ethics approval granted by AZTI
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	No additional public dataset documentation was reported. The dataset remains under the control of AZTI and is subject to the ethical and GDPR restrictions described above.
Contact / Responsible Partner	Partner name, contact person, email:	Data owner/responsible partner: AZTI

7.5.4 T6.1d Impact at looking at food through a single health and sustainability lens -the Sus-Health index

WP: 6	Task: 6.1d	Partner name: QUB
Field	Description / Options	Answers
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	WP6-T6.1+d-livinglab
Data Title	Title or short description of the dataset.	Data from Finland and Manchester living labs
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Surveys
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Text and numeric
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	<100MB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	CSV
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	MS Office
Generation / Collection Details	Describe how the data was generated or collected (e.g., “Survey of 200 participants using online form,” “Sensor logs from LL trials,” “Simulation outputs from WP2 model”).	Survey of eating habits and meal choices from participants of living lab experiments held in UK and Finland

Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	N/A
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Scientific analysis
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	**DOI:** Not applicable; dataset not publicly deposited. **Location:** QUB institutional server. **Access:** Confidential due to personal data and ethics requirements. **Public licence:** Not applicable.
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	Some personal data, ethics approval granted by QUB.
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	No supporting public dataset documentation or repository record was reported at project closure.
Contact / Responsible Partner	Partner name, contact person, email:	Professor Paul Brereton <paul.brereton@qub.ac.uk>

7.6 WP7 — Enabling policy solutions for transparent food supply chains

7.6.1 T7.1 Assessment of visions for transparency in the food system

WP: 7	**Task: 7.1**	**Partner name:** CU
Field	**Description / Options**	**Answers**
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	T7.1
Data Title	Title or short description of the dataset.	Review of transparency definition in EC policy
Origin of Data	Primary data (collected/generated within project)	Secondary data

	Secondary data (re-used from external sources)	
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Literature
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Text (notes)
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	<100 MB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	DOCX, XLSX
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	MS Office
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	Review of the European Commission policies website (full methodology provided in section 3 of D7.1)
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	The data is publicly available. References to all policies included in the review are provided in D7.1.
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Scientific analysis for use in D7.1, D7.3 and subsequent publications

FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	No project-generated public dataset or DOI applies to this activity. The source material consists of publicly accessible European Commission policy documents, with references documented in D7.1.
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	All data is publicly available and does not include any personal or sensitive data.
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	The data were not stored for the purposes of the project; they are accessed through the public policies website of the European Commission
Contact / Responsible Partner	Partner name, contact person, email:	Chris Bear Cardiff University Bearck@cardiff.ac.uk

7.6.2 T7.2 Identification of areas where policy requires, constrains or enables transparency

WP: 7	Task: 7.2	Partner name: CU
Field	Description / Options	Answers
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	T7.2
Data Title	Title or short description of the dataset.	Online interviews with TITAN SMEs, Nov 2022-April 2024; focus groups with TITAN SMEs June 2024; interviews with organisations aiming to influence policy, October 2023-July 2025
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary data
Data Collection Method	Select one or more: Interviews	Interviews Focus groups

	Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Text (transcripts) Audiovisual (video, audio recordings)
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	10-100 GB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	DOCX, MP4, NVP
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	MS Teams, MS Office, NVivo
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	The SME interview data was generated in collaboration with WP2 and WP3. Online interviews were conducted based on the joint consent form. The meetings were held on MS Teams, and the transcriptions were generated automatically via MS Teams. The focus group data were generated in collaboration with WP3. In-person focus groups were conducted based on the joint consent

		form and were professionally transcribed. The interviews with organisations aiming to influence policy were conducted either solely by WP7 or in collaboration with WP3. Online interviews were conducted based on the joint consent form. The meetings were held on MS Teams, and the transcriptions were generated automatically via MS Teams. The video and audio recordings, transcriptions, and signed consent forms are stored in Cardiff University OneDrive repository.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	N/A
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Scientific analysis, project deliverable reporting (D7.3) and subsequent publications
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	**DOI:** Not applicable; the dataset is not publicly deposited due to informed-consent and ethical restrictions. **Location:** Cardiff University institutional storage/OneDrive. **Access:** Confidential to authorised consortium partners. **Public licence:** Not applicable. Anonymised

		findings may be used in publications in accordance with consent and ethical approval.
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	The data includes basic personal data (e.g. age, gender) and sensitive data (e.g. commercially confidential). Ethical approval was received initially from WUR and subsequently confirmed by TUD and CU.
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	None (the dataset has not yet been shared in any way beyond specific consortium partners)
Contact / Responsible Partner	Partner name, contact person, email:	Chris Bear Cardiff University Bearck@cardiff.ac.uk

7.6.3 T7.3 Identification of challenges faced by policymakers

WP: 7	**Task: 7.3**	**Partner name:** CU
Field	**Description / Options**	**Answers**
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	T7.3
Data Title	Title or short description of the dataset.	Interviews and focus group with policymakers; online survey with policy community
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary data
Data Collection Method	Select one or more: Interviews Surveys	Interviews Focus group Survey

	Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	
Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Text (transcripts) Audiovisual (video, audio recordings) Numeric (tables)
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	10-100 GB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	DOCX, MP4, NVP, XLSX
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	MS Teams, MS Office, NVivo
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	The interview data was generated through online interviews conducted based on the joint consent form. The meetings were held on MS Teams, and the transcriptions were generated automatically via MS Teams. The focus group data were generated through an in-person focus groups, based on the joint consent form, and were professionally transcribed.

		The video and audio recordings, transcriptions, and signed consent forms are stored in Cardiff University OneDrive repository. The survey was conducted online following institutional ethical approval from Cardiff University. It was circulated to around 350 people (policymakers and related food system actors); 33 responses were received. It was circulated using Jisc Online Surveys.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	N/A
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Scientific analysis, project deliverable reporting (D7.3) and subsequent publications
FAIR & Sharing	Indicate: • DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	**DOI:** Not applicable; the dataset is not publicly deposited due to informed-consent and ethical restrictions. **Location:** Cardiff University institutional storage/OneDrive. **Access:** Confidential to authorised consortium partners. **Public licence:** Not applicable. Anonymised findings may be used in publications in accordance with

		consent and ethical approval.
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	The data includes basic personal data (e.g. age, gender) and sensitive data (e.g. commercially confidential). Ethical approval was received initially from WUR and subsequently confirmed by TUD and CU.
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	None (the dataset has not yet been shared in any way beyond specific consortium partners)
Contact / Responsible Partner	Partner name, contact person, email:	Chris Bear Cardiff University Bearck@cardiff.ac.uk

7.6.4 T7.4 Develop and validate recommendations

WP: 7	**Task: 7.4**	**Partner name:** CU
Field	**Description / Options**	**Answers**
Data ID / Reference	Unique identifier for the dataset (e.g., WP number, task, acronym).	T7.4
Data Title	Title or short description of the dataset.	Focus groups with policymakers and stakeholders
Origin of Data	Primary data (collected/generated within project) Secondary data (re-used from external sources)	Primary data
Data Collection Method	Select one or more: Interviews Surveys Measurements Demonstrations Literature Sensor data Simulation / modeling Administrative / project records Other (specify)	Focus group

Content / Data Type	Text (notes, reports, transcripts) Numeric (tables, counts, measurements) Audiovisual (images, sound, video, presentations) Software / code Metadata only Other (specify)	Text (transcripts) Audiovisual (photographs of focus group materials, audio recordings)
Volume / Size	Indicate approximate size: <100 MB 100 MB–1 GB 1–10 GB 10–100 GB >100 GB (Specify if applicable)	10-100 GB
File Formats	Specify all formats used (e.g., DOCX, PDF, PPTX, CSV, XLSX, JSON, XML, JPEG, PNG, MP4, WAV, etc.).	DOCX, MP4, NVP, JPEG
Software Required	List software needed to access/use data (e.g., MS Office, R, Python, Matlab, GIS tools, proprietary lab software).	MS Teams, MS Office, NVivo
Generation / Collection Details	Describe how the data was generated or collected (e.g., "Survey of 200 participants using online form," "Sensor logs from LL trials," "Simulation outputs from WP2 model").	The focus group data were generated through in-person focus groups, based on the joint consent form, and were professionally transcribed. The video and audio recordings, transcriptions, and signed consent forms are stored in Cardiff University OneDrive repository.
Source of Secondary Data (if used)	Provide details of external data (dataset title, source, DOI, license).	N/A
Purpose of Data	Describe intended use (e.g., project management, reporting, financial monitoring, scientific analysis, Living Lab coordination, dissemination, ethics compliance).	Scientific analysis, project deliverable reporting (D7.4) and subsequent publications
FAIR & Sharing	Indicate:	**DOI:** Not applicable; the dataset is not publicly

	• DOI (e.g., via Zenodo, institutional repository): • Link/URL or location • Access level: Open Restricted Confidential (consortium only) • License applied (e.g., CC-BY, CC0, proprietary):	deposited due to informed-consent and ethical restrictions. **Location:** Cardiff University institutional storage/OneDrive. **Access:** Confidential to authorised consortium partners. **Public licence:** Not applicable. Anonymised findings may be used in publications in accordance with consent and ethical approval.
Ethical / Legal Considerations	Note if data includes: • Personal data (GDPR compliance) • Sensitive data (health, financial, etc.) • Ethical approvals required.	The data includes basic personal data (e.g. age, gender) and sensitive data (e.g. commercially confidential). Ethical approval was received initially from WUR and subsequently confirmed by TUD and CU.
Documentation / Accessibility	Indicate whether supporting materials exist: README file Website / online documentation Executable code / scripts API or service endpoint None (explain why)	None (the dataset has not yet been shared in any way beyond specific consortium partners)
Contact / Responsible Partner	Partner name, contact person, email:	Chris Bear Cardiff University Bearck@cardiff.ac.uk

8. Allocation of Resources and Roles (Status at M48)

At project closure, roles remain as defined earlier: WP Leaders are responsible for adherence within their Work Packages; the Project Coordinator maintains the consolidated data-management and repository status; TUD provides infrastructure support and clarifications; and each partner remains responsible for the stewardship, preservation and access conditions of the datasets under its control.

9. Ethics: Human Participants & Personal Data (Status at M48)

TITAN activities involving human participants were managed in accordance with applicable ethical approvals, informed consent, data-minimisation principles and GDPR-compliant safeguards. Datasets

containing personal or potentially identifiable information are not publicly released unless sufficient anonymisation is possible and consistent with the applicable consent conditions. Where datasets remain restricted or confidential, the responsible partner retains responsibility for secure storage, controlled access, retention and deletion in accordance with institutional, contractual and legal requirements. Where appropriate and feasible, anonymised or aggregated derivatives may be made available for research dissemination and reuse.

10. Conclusion

This final Data Management Plan consolidates the data-management status of TITAN at Month 48 and documents the datasets and related outputs reported across the project. Publicly shareable outputs have been made available through Zenodo and other established repositories, including disciplinary repositories such as NCBI, while datasets containing personal data, commercially sensitive information, or third-party confidential material remain restricted in accordance with ethical, legal, contractual and data-protection requirements. Where raw data could not be openly shared, the applicable access conditions and restrictions have been documented together with available supporting materials, publications, repository records or public derivatives.

The final review shows different levels of FAIR implementation across tasks, reflecting the nature of the data and the maturity and requirements of each pilot. Several tasks provide open repository records and persistent identifiers, while others retain data in institutional or partner-controlled environments because public release is not appropriate. Where final dataset information was not available to the coordination team, this is explicitly recorded rather than inferred.

D1.6 therefore provides the final consolidated record of TITAN's data-management practices and establishes the basis for post-project stewardship. Responsibility for preservation, access control and any future release of restricted datasets remains with the respective data-owning partners and their institutions.