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Executive summary

Deliverable 5.2 reports on the identification, selection and initial structuring of a European network of Agro Living Labs and showcase farms within the framework of the I3-4-BIOFERTILIZERS project. The deliverable corresponds to Task 5.2 (M16–M32) and is coordinated by FEMAC, with the active involvement of all project partners. It represents the first implementation step towards the establishment of a Living Lab network that will support future piloting and demonstration activities for innovative biofertilizer solutions.

The primary objective of Deliverable 5.2 is to prepare and operationalise the foundations of a Living Lab network by identifying real-life agricultural environments with the technical capacity, agronomic relevance and engagement readiness to host future demonstration activities. These environments are intended to serve as testing and showcasing sites for innovative biofertilizer solutions, particularly those developed by SMEs supported under Strand 2 of the project's Financial Support to Third Parties (FSTP), whose implementation projects have a duration of up to 12 months from contract signature.

The identification of Agro Living Labs and showcase farms has been carried out through a structured and transparent process combining targeted outreach through partner networks with an open European Expression of Interest (EOI). This multi-channel approach enabled both in-depth screening of known candidate sites and the inclusion of new living labs interested in joining the network. Candidate sites were assessed against a set of predefined criteria covering crop relevance, geographic and agro-climatic diversity, infrastructure and technical capacity, innovation readiness, monitoring potential and willingness to engage in collaboration and dissemination activities.

As a result of this process, a first cohort of Agro Living Labs and showcase farms has been identified and characterised. The selected sites cover a wide range of agricultural systems, including vineyards, fruit orchards and horticultural crops, and are located in diverse regional and agro-climatic contexts. At this stage, the living labs are described in terms of location, cropping systems, production models and operational profiles, with a focus on their readiness to host future demonstration activities rather than on implemented field results.

In addition to documenting the identified network, Deliverable 5.2 defines the preparatory frameworks required for the subsequent activation of the Living Lab. This includes a conceptual framework for the design of biofertilizer demonstration activities aligned with Strand 2 FSTP projects, as well as a methodological framework for monitoring, feedback and impact assessment to be applied during future implementation phases.

A governance and collaboration framework is also outlined, clarifying the roles of FEMAC, project partners, farmers and other actors during the identification and preparation phase.

Deliverable 5.2 constitutes a foundational milestone for the project. While it does not report on implemented demonstrations or measured impacts, it ensures that the necessary infrastructure, methodologies and collaboration mechanisms are in place to support effective piloting and

demonstration activities in subsequent phases. The Living Lab network presented in this deliverable provides a scalable and expandable basis for interregional cooperation, facilitating the future validation, replication and uptake of innovative biofertilizer solutions.

The next iteration of this deliverable, Deliverable 5.3, will build upon this foundation by expanding the Living Lab network and reporting on the implementation of demonstration cases, monitoring activities and impact assessment results as Strand 2 FSTP projects progress.

1.1 Context and rationale

The transition towards more sustainable, circular and resilient agricultural systems is a strategic priority for the European Union, as reflected in key policy frameworks such as the European Green Deal, the Farm to Fork Strategy and the EU Soil Strategy for 2030. Within this context, biofertilizers represent a critical enabling solution to reduce dependency on conventional chemical fertilizers, improve soil health and nutrient efficiency, and support climate and environmental objectives.

Despite their growing technological maturity, the large-scale adoption of biofertilizers across European agriculture remains limited. Barriers to uptake include variability of performance across crops and regions, limited availability of field-based evidence under real farming conditions, and insufficient interaction between technology developers and end users during the validation phase. Addressing these barriers requires not only innovation at product level, but also structured mechanisms for real-life testing, demonstration and user engagement.

The I3-4-BIOFERTILIZERS project addresses these challenges through an interregional innovation investment approach aimed at accelerating the validation, demonstration and market uptake of innovative biofertilizer solutions and circular bioeconomy-based fertilization practices. A core element of this approach is the establishment of a network of Agro Living Labs and showcase farms that can function as real-life environments bridging innovation development and practical application.

Within this framework, the rationale for the Living Lab approach is to ensure that innovative biofertilizer solutions are tested and demonstrated in operational agricultural contexts that reflect the diversity of European farming systems. By identifying and preparing a network of suitable living labs, the project creates the conditions for meaningful validation activities that are technically robust, regionally relevant and transferable across value chains. Deliverable 5.2 responds to this need by focusing on the identification and structuring of these real-life testing environments as a prerequisite for subsequent demonstration and impact assessment activities.

1.2 Role of the Living Labs within WP5

The Living Lab and showcase farm network described in this deliverable is implemented under Work Package 5, which focuses on the testing and demonstration of innovative tools and approaches for optimized fertilization and sustainable agricultural practices. Within WP5, Task 5.2 specifically addresses the establishment of a collaborative network and Living Lab for piloting and showcasing innovative production and use of biofertilizers during the period M16–M32.

The role of the Living Labs within WP5 is to act as an enabling infrastructure for future piloting and demonstration activities, rather than as a stand-alone implementation action. By identifying, selecting and preparing suitable agro living labs and showcase farms, Task 5.2 ensures that the project has access to real-life agricultural environments capable of hosting field-based validation activities in subsequent phases.

In this sense, the Living Labs serve several complementary functions within WP5:

- providing access to operational farming environments representative of different crops, regions and agro-climatic conditions;
- enabling interaction between farmers, SMEs, technology providers, research organisations and clusters at an early stage;
- supporting the alignment of field activities with the innovation projects developed under Strand 2 of the Financial Support to Third Parties (FSTP);
- laying the methodological and organisational groundwork for future demonstration, monitoring and impact assessment activities.

The Living Lab network established under Task 5.2 therefore functions as a cross-cutting preparatory mechanism within WP5, reinforcing the coherence between innovation development, field validation and future dissemination actions. Its activation and operational use will be progressively expanded in subsequent project phases and reported in Deliverable 5.3.

1.3 Objectives of Deliverable 5.2

The overall objective of Deliverable 5.2 is to document the identification, selection and initial structuring of a European network of Agro Living Labs and showcase farms to support the future piloting and demonstration of innovative biofertilizer solutions within the I3-4-BIOFERTILIZERS project.

More specifically, Deliverable 5.2 aims to:

- **Define and document the methodological approach** used to establish the Living Lab network, including the Living Lab concept applied, the selection criteria for showcase farms and the identification and engagement process, combining targeted outreach and an open Expression of Interest.
- **Identify and characterise a first cohort of Agro Living Labs and showcase farms**, describing their geographic distribution, agro-climatic contexts, cropping systems and operational profiles, with a focus on their readiness to host future demonstration activities.
- **Establish the structural framework** required to support piloting and demonstration activities in subsequent project phases, including the definition of standardised templates, fiches and preparatory elements for demonstration design and monitoring.
- **Ensure alignment with Strand 2 of the Financial Support to Third Parties (FSTP)** by preparing a network of real-life testing environments capable of hosting field activities linked to the 12-month SME innovation projects once these are operational.
- **Lay the groundwork for progressive expansion and activation of the Living Lab network**, enabling future updates, inclusion of additional living labs and detailed reporting of demonstration cases, monitoring frameworks and impact assessment methodologies in Deliverable 5.3.

Through these objectives, Deliverable 5.2 positions the Living Lab network as a foundational infrastructure for the project, ensuring that subsequent piloting, demonstration and validation activities are implemented in a coherent, scalable and interregionally relevant manner.

1.4 Structure of the Deliverable

This deliverable is structured to reflect the progressive establishment of the Living Lab and showcase farm network under Task 5.2, with a primary focus on the identification, selection and preparation of real-life testing environments for future demonstration activities.

- **Section 1** introduces the policy and project context motivating the Living Lab approach, clarifies the role of Living Labs within Work Package 5, defines the specific objectives of Deliverable 5.2 and outlines the structure of the report.
- **Section 2** describes the methodology applied to establish the Living Lab and showcase farm network. It presents the Living Lab approach adopted in the project, the scope and timeframe of Task 5.2, the criteria for selecting showcase farms and the identification and engagement process, including the use of an open Expression of Interest. The section also defines the preparatory frameworks for demonstration activities and for monitoring and feedback, without reporting implementation results.
- **Section 3** presents the network of showcase farms identified under Deliverable 5.2. It provides an overview of the Living Lab network, including the geographic distribution, agro-climatic contexts, cropping systems and production models of the selected farms, highlighting their readiness to host future piloting and demonstration activities.
- **Section 4** introduces the preparatory framework for biofertilizer demonstration activities. It outlines how future demonstrations will be conceptually aligned with Strand 2 of the Financial Support to Third Parties (FSTP) and describes indicative demonstration typologies and field application contexts, without detailing implemented cases.
- **Section 5** presents the conceptual monitoring and impact assessment framework that will guide future demonstration activities. The section defines monitoring objectives, indicative data categories and data collection principles, serving as a methodological reference for subsequent implementation phases.
- **Section 6** describes the governance and collaboration framework supporting the Living Lab network during its identification and preparation phase. It outlines the multi-actor collaboration model, the role of FEMAC, the contribution of project partners and mechanisms for knowledge exchange and capacity building.
- **Section 7** discusses the expected impact, replicability and scalability of the Living Lab network, focusing on its potential contribution to innovation uptake, interregional cooperation and long-term deployment of biofertilizer solutions.
- **Section 8** concludes the deliverable by summarising the main outcomes of the identification

and preparation phase and outlining the next steps foreseen for the activation, expansion and update of the Living Lab network in Deliverable 5.3.

2. Methodology for Establishing the LivingLab and Showcase Farm Network

2.1 Living lab Approach

The Living Lab network established under Task 5.2 is based on a real-life, user-centred and collaborative innovation approach, designed to prepare the ground for future piloting and demonstration of innovative biofertilizer solutions under operational farming conditions. Rather than functioning as a controlled experimental setting, the Living Lab is conceived as a distributed network of real agricultural environments where innovation can be tested, demonstrated and refined in close interaction with end users.

Within the scope of Deliverable 5.2, the Living Lab approach is applied primarily as a structuring and engagement mechanism. The focus at this stage is on identifying suitable agro living labs and showcase farms, aligning expectations among actors and establishing the organisational and methodological foundations required for future field activities. The approach emphasises readiness, diversity and engagement capacity over immediate implementation.

A core principle of the Living Lab approach in I3-4-BIOFERTILIZERS is multi-actor co-creation. Farmers, SMEs, technology providers, research organisations, clusters and regional stakeholders are involved from the early stages to ensure that future demonstration activities are technically relevant, operationally feasible and aligned with real farming needs. Farmers are considered active contributors rather than passive recipients, providing contextual knowledge and feedback that will inform the design of future demonstrations.

The Living Lab is designed as a flexible and scalable framework, allowing the progressive inclusion of additional living labs, crops and regions over time. This flexibility is essential to accommodate the diversity of innovation cases supported under Strand 2 of the Financial Support to Third Parties (FSTP) and to adapt field activities to different agronomic and climatic contexts. Deliverable 5.2 therefore focuses on establishing the enabling conditions for this Living Lab approach, while its full operational deployment will be addressed in subsequent project phases.

2.2 Scope and Timeframe

The establishment of the Living Lab and showcase farm network is implemented under Task 5.2 of Work Package 5 during the period Months 16 to 32 of the project. Within this timeframe, Deliverable 5.2 focuses on the identification, selection and initial engagement of Agro Living Labs and showcase farms, as well as on the definition of preparatory frameworks for future demonstration and monitoring activities.

The scope of the Living Lab network covers a range of agricultural production systems relevant to the objectives of the I3-4-BIOFERTILIZERS project, including vineyards, fruit orchards and horticultural crops. These systems are characterised by different fertilization needs, crop cycles and sustainability challenges, making them suitable contexts for the future validation of biofertilizer solutions.

From a geographic perspective, the Living Lab network is conceived as an interregional and potentially expandable European infrastructure. Deliverable 5.2 documents a first cohort of living labs identified across

different regions and agro-climatic zones, contributing to diversity in terms of climate, soil conditions and farming practices. This interregional scope supports comparative learning and future transferability of results.

In terms of implementation timing, the Living Lab network established under Deliverable 5.2 is designed to align with the implementation schedule of Strand 2 FSTP projects, which have a maximum duration of 12 months from contract signature. The identification and preparation of living labs during Task 5.2 ensures that suitable real-life testing environments are available when SMEs begin their field activities. The activation of demonstration cases, monitoring activities and impact assessment will be progressively implemented and reported in Deliverable 5.3.

2.3 Criteria for Selection of Showcase Farms

The selection of showcase farms and Agro Living Labs for inclusion in the Living Lab network is based on a set of transparent, objective and operational criteria designed to ensure the suitability of the selected sites for future piloting and demonstration activities. The criteria aim to balance agronomic relevance, technical readiness and engagement capacity, while ensuring diversity across crops, regions and agro-climatic contexts.

Selection criteria have been defined to ensure that participating living labs are capable of acting as real-life testing environments for innovative biofertilizer solutions, particularly those developed by SMEs supported under Strand 2 of the Financial Support to Third Parties (FSTP). At this stage, the criteria focus on readiness and potential, rather than on demonstrated performance outcomes.

The main selection criteria include:

- Agronomic relevance and crop coverage

Showcase farms must represent one or more of the key cropping systems addressed by the project, including horticultural crops, fruit orchards, vineyards, olive groves or arable crops. This ensures alignment with the biofertilizer use cases targeted by the project and relevance for future demonstration activities.

- Geographic and agro-climatic diversity

Farms are selected to contribute to a geographically diverse network covering different regions, countries and agro-climatic zones. This diversity is essential to support interregional learning and to enable future testing of biofertilizer solutions under varied climatic and soil conditions.

- Infrastructure and technical capacity

Candidate living labs must demonstrate the availability of basic infrastructure and equipment required to host field trials or demonstration activities, such as agricultural fields, greenhouses, machinery, irrigation systems or monitoring tools, as reported through the Expression of Interest questionnaire.

- Innovation readiness and engagement willingness

A key criterion is the willingness of the farm or living lab to engage in innovation activities, including pilot trials, demonstration actions, data collection and co-creation with SMEs and project

partners. This includes openness to applying new biofertilizer solutions following agreed protocols.

- Data availability and monitoring potential

Showcase farms should be able to provide baseline information on crops, fertilization practices and farm management, and demonstrate willingness to support future monitoring and data collection activities, in line with the project's monitoring framework to be developed in subsequent phases.

- Visibility and collaboration potential

Preference is given to living labs that are open to participating in dissemination, knowledge exchange and visibility actions, such as hosting study visits or allowing publication of basic information on the project website, subject to consent.

These criteria are applied in a flexible but structured manner to ensure that the resulting network is both representative of real farming conditions and operationally ready to support future piloting and demonstration activities.

2.4 Identification and Engagement Process

The identification and engagement of showcase farms and Agro Living Labs follow a structured, multi-step process combining targeted outreach with an open and transparent selection mechanism. This process has been designed to ensure both depth of engagement and openness to new candidate sites across Europe.

Step 1: Targeted identification through partner networks

An initial pool of potential showcase farms was identified through the existing networks of FEMAC and the project partners. This included direct contacts with farms, cooperatives, experimental facilities and regional living labs with prior experience in innovation, sustainability initiatives or bio-based solutions. These candidate sites were preliminarily screened against the selection criteria outlined in Section 2.3.

Step 2: Open Expression of Interest (EOI)

To complement targeted identification and broaden the reach of the Living Lab network, an open Expression of Interest (EOI) was launched at European level. The EOI was disseminated through project communication channels, partner networks and relevant stakeholder platforms, inviting interested Agro Living Labs, farms and testing facilities to apply for inclusion in the network.

Interested entities were required to complete a structured online questionnaire, designed to collect harmonised information on key aspects such as:

- general identification and contact details,
- crop systems and main activities,
- available infrastructure and technical capabilities,
- previous experience with biofertilizers or related projects,
- willingness to engage in collaboration, testing and dissemination activities,
- consent for visibility and future contact by SMEs and project partners

Step 3: Screening and validation

EOI responses were reviewed by FEMAC, in coordination with project partners, to assess alignment with the defined selection criteria. This screening focused on agronomic relevance, infrastructure readiness, engagement capacity and geographic balance. Where necessary, follow-up exchanges were conducted with candidate sites to clarify information or confirm interest.

Step 4: Initial engagement and onboarding

Selected showcase farms and living labs were formally engaged into the network through initial alignment exchanges. At this stage, engagement focuses on confirming interest, clarifying the role of the living lab within the network and collecting structured information for inclusion in the Living Lab fiches presented in Section 3. No binding commitments regarding specific demonstration activities are required at this stage, as these will be defined in the subsequent implementation phase.

This identification and engagement process ensures that the Living Lab network established under Deliverable 5.2 is based on transparent criteria, open participation and a solid assessment of readiness. It also creates a scalable pipeline of candidate living labs that can be expanded and further activated in Deliverable 5.3 as demonstration activities and monitoring frameworks are progressively implemented.

2.5 Design of Demonstration Activities

The demonstration activities foreseen within the Living Lab network are designed to support the piloting, validation and showcasing of innovative biofertilizer solutions under real farming conditions. Within the scope of Deliverable 5.2, this section focuses on defining the conceptual and operational framework for these activities, rather than on their full implementation.

Demonstration activities will be partially aligned with the projects supported under Strand 2 of the Financial Support to Third Parties (FSTP). SMEs selected under Strand 2 will develop and validate their biofertilizer solutions over a maximum duration of 12 months from contract signature, with an expected latest start date of March 2026. The Living Lab network established under Task 5.2 provides the field-level infrastructure required to host these demonstration activities during their implementation phase.

At this stage, Deliverable 5.2 defines the guiding principles for the design of demonstration activities,

which include:

- **Context-specific adaptation**

Demonstration activities will be adapted to the specific agronomic context of each showcase farm, taking into account crop type, soil characteristics, climatic conditions and existing fertilization practices.

- **Alignment with SME innovation cases**

Demonstrations will be designed in close coordination with SMEs supported under Strand 2, ensuring that field activities are relevant to the technical objectives, maturity level and validation needs of each biofertilizer solution.

- **Comparative and illustrative approaches**

Where appropriate, demonstrations may include comparative setups (e.g. conventional fertilization practices versus biofertilizer-enhanced strategies) to facilitate understanding of added value and practical implications for farmers.

- **Operational feasibility**

Demonstration designs will prioritise simplicity, feasibility and compatibility with normal farm operations, ensuring that activities can be realistically implemented within the time constraints of the FSTP projects.

Within Deliverable 5.2, demonstration activities are therefore described at a conceptual and preparatory level, including the definition of standardised fiches and templates to be used in subsequent phases. The detailed description of individual demonstration cases, including biofertilizer solutions, application protocols, timelines and expected outputs, will be provided in Deliverable 5.3 once the Strand 2 projects are fully operational and field activities are underway.

2.6 Monitoring and Feedback Mechanisms

Monitoring and feedback mechanisms are an integral component of the Living Lab approach, supporting learning, adaptation and future impact assessment. Within the scope of Deliverable 5.2, this section outlines the monitoring framework concept that will guide data collection and feedback processes during the implementation of demonstration activities, without yet reporting results or performance indicators.

The monitoring approach is designed to be proportionate, flexible and aligned with the implementation timeline of the Strand 2 FSTP projects. Given the 12-month duration of these projects, monitoring activities will focus on capturing relevant agronomic, environmental and operational data within realistic seasonal and crop-cycle constraints.

The monitoring framework is based on the following principles:

- Combination of quantitative and qualitative data

Monitoring will integrate quantitative indicators (e.g. yield-related parameters, soil fertility indicators, input use efficiency) with qualitative feedback from farmers regarding usability, practicality and perceived benefits of biofertilizer solutions.

- Baseline and follow-up logic

Where feasible, baseline information on existing fertilization practices and soil or crop conditions will be collected to support comparative analysis during and after demonstration activities.

- Farmer-centred data collection

Data collection will be carried out in close collaboration with farmers and technical partners, ensuring feasibility and minimizing additional administrative burden.

- Iterative feedback and learning

Regular exchanges between farmers, SMEs and project partners will allow early identification of operational challenges, adaptation of application protocols and refinement of demonstration setups.

Within Deliverable 5.2, monitoring and feedback mechanisms are defined at a methodological level, including indicative data categories and roles. The detailed monitoring plan, key performance indicators (KPIs), data collection schedules and impact assessment methodology will be further developed and reported in Deliverable 5.3, once demonstration activities linked to Strand 2 projects are actively implemented.

This phased approach ensures coherence between the Living Lab methodology, the FSTP implementation timeline and the progressive development of evidence on biofertilizer performance and impact.

3. Description of the network of showcase farms

3.1 Overview of the Living Lab network

The Living Lab network established under Task 5.2 consists of a structured set of Agro Living Labs and showcase farms identified as suitable real-life environments for future piloting and demonstration of innovative biofertilizer solutions. Coordinated by FEMAC, the network brings together farms, experimental facilities and applied innovation environments that are representative of key agricultural systems targeted by the I3-4-BIOFERTILIZERS project.

Within the scope of Deliverable 5.2, the Living Lab network is presented as a **prepared and engagement-ready infrastructure**, rather than as an operational demonstration platform. The

identified living labs and showcase farms have been selected based on their agronomic relevance, technical capacity, geographic diversity and willingness to engage in future collaboration activities with SMEs, project partners and other stakeholders.

The network includes a diversity of agricultural production systems, notably vineyards, fruit orchards and horticultural crops. These systems were prioritised due to their relevance for biofertilizer application, their contribution to high-value agri-food value chains and their potential to demonstrate different fertilization strategies under real farming conditions. The diversity of cropping systems ensures that future demonstration activities can be adapted to different agronomic needs and innovation cases.

Each **initially identified** showcase farm or Agro Living Lab has been characterised using a harmonised fiche, capturing key information such as location, cropping system, production model, fertilization practices and operational profile. This structured characterisation supports comparability across sites and provides a solid basis for the future matching of SMEs' biofertilizer solutions with appropriate field contexts.

The identification process remains **open and iterative**, allowing additional living labs to be incorporated into the network as the project progresses. New candidate sites will be assessed using the same selection criteria and characterisation approach, ensuring consistency and scalability of the Living Lab network over time.

Overall, the Living Lab network identified under Deliverable 5.2 constitutes a first, coherent and expandable backbone for future piloting and demonstration activities. Additional living labs may be incorporated as the project progresses, with updates and operational deployment to be reported in Deliverable 5.3.

3.2 Geographic Distribution and Agro-Climatic Contexts

The Agro Living Labs and showcase farms identified under Task 5.2 are distributed across different regions, reflecting the interregional scope of the I3-4-BIOFERTILIZERS project. This initial geographic distribution is designed to ensure diversity in agro-climatic conditions, soil types and farming practices, which is essential for the future validation and transferability of biofertilizer solutions.

At the time of submission of Deliverable 5.2, the network covers a range of agro-climatic zones, including Mediterranean, continental and transitional environments.

These zones are characterised by different temperature regimes, rainfall patterns and seasonal constraints, all of which influence soil fertility dynamics and fertilization strategies. By identifying living labs across these contexts, the project establishes a first representative basis for future piloting activities, enabling both cross-context comparison and context-specific learning.

In addition to climatic diversity, the initially identified regions exhibit variability in soil characteristics, production models and farm management practices. Showcase farms operate under

conventional, integrated and organic systems, providing a representative cross-section of real market conditions. This diversity is particularly relevant for assessing the potential role of biofertilizers as complementary or alternative inputs within different regulatory and agronomic frameworks.

The identification process for Agro Living Labs remains open and progressive, allowing additional living labs from other participating regions of the project to be incorporated into the network as Task 5.2 advances. This open approach is expected to further strengthen the interregional dimension of the Living Lab, expanding geographic coverage and enhancing the diversity of agro-climatic and production contexts represented.

At this stage, Deliverable 5.2 documents the geographic and agro-climatic characteristics of the initial cohort of the Living Lab network, without reporting comparative results or performance outcomes. The purpose of this section is to demonstrate the breadth, representativeness and readiness of the network established so far, while clearly positioning it as a scalable and expandable infrastructure for future field-based validation, comparative analysis and interregional learning.

The geographic distribution and agro-climatic diversity of the Living Lab network therefore constitute a key and evolving asset for the project, supporting scalability, replication and alignment with the interregional innovation objectives of the I3 instrument.

3.2.1. List of Show Farm cases

The list of Agro Living Labs and showcase farms presented in this section reflects the initial cohort of sites identified and engaged under Task 5.2 at the time of submission of Deliverable 5.2. These sites have been selected through the structured identification and screening process described in Section 2, based on predefined criteria related to agronomic relevance, geographic diversity, technical capacity and engagement readiness.

The identification process for Agro Living Labs remains open and progressive. Additional living labs and showcase farms from other participating regions of the project may be incorporated into the network as Task 5.2 advances and as new candidate sites are identified through partner networks or the open Expression of Interest. All new sites will be assessed using the same selection criteria and characterisation methodology to ensure consistency and comparability across the network.

The list presented in this section therefore represents a snapshot of the Living Lab network at an intermediate stage of its establishment, rather than a final or exhaustive inventory. The expansion of the network and the inclusion of additional regions, crops and agro-climatic contexts will be documented in the updated version of this deliverable (Deliverable 5.3), together with the activation of demonstration activities linked to Strand 2 FSTP projects.

The table below presents the initial showcase farms and Agro Living Labs identified before and through the open Expression of Interest at the time of submission of Deliverable 5.2. The list is not exhaustive and will be progressively expanded as the identification process remains open throughout Task 5.2.

Agro Living Lab / Showcase Farm	Legal Entity / Organisation	Country / Region	Main Crops	Main Activities & Capabilities	Available Infrastructure (indicative)	Relevance for Biofertilizer Demonstration
Monte Silveira	Valecereal S.A.	Portugal – Castelo Branco	Olive crops, cereals	Testing and validation of agricultural technologies; pilot trials; applied research activities	Direct seed driller; soil moisture probes; field monitoring equipment	Participation in research projects related to sustainable fertilization and biofertilizers; suitable for field validation under real farming conditions
Agropolis Parc UPC Living Lab	Escola d'Enginyeria Agroalimentària i de Biosistemes de Barcelona (EEABB), Universitat Politècnica de Catalunya (UPC)	Spain – Catalonia (Viladecans, Barcelona)	Horticultural crops	Demonstration and transfer of technologies for sustainable horticulture; co-design of Living Lab activities; participatory processes; technology dissemination	Sensorics; agricultural mechanisation; plant varieties; agrivoltaics; cultivation techniques; plant protection technologies	Suitable environment for demonstrating biofertilizer solutions in sustainable horticulture under real field conditions, with strong focus on knowledge transfer and farmer engagement
IRTA – CEREALIA Living Lab	Institut de Recerca i Tecnologia Agroalimentàries (IRTA)	Spain – Catalonia (Baix Empordà, Segrià, Montsià)	Extensive crops: cereals (winter and summer), legumes, oilseeds, forages, rice	Experimentation and validation of agronomic practices; demonstration platforms; co-innovation with producers and companies; technology transfer	Crop and soil sensors; precision agriculture machinery; drones; data platforms; variable-rate application technologies	Highly relevant for testing biofertilizers in extensive cropping systems, nutrient management strategies and sustainability-oriented fertilization practices
IRTA – FRUITS Living Lab	Institut de Recerca i Tecnologia Agroalimentàries (IRTA)	Spain – Catalonia (Baix Empordà, Segrià, Tarragona, Vallès Oriental)	Fruit crops (pome fruits, stone fruits, citrus), nuts, olive, vineyard	Evaluation of varieties and rootstocks; agronomic experimentation; joint experimentation with sector actors; field-based technology transfer	Multispectral sensors; precision agriculture equipment; data management software; molecular tools; variable application systems	Suitable for future demonstration of biofertilizers in perennial and woody crops, addressing soil health, nutrient efficiency and climate resilience
Agro Living Lab / Showcase Farm	Legal Entity / Organisation	Country / Region	Main Crops	Main Activities & Capabilities	Available Infrastructure (indicative)	Relevance for Biofertilizer Demonstration
Terinnov	Oxyane	France, Auvergne Rhône Alpes	Fruit crops, Viticulture, Cereals	Testing and validation of technologies,	Sprayer, Combine harvester	They test different biocontrol and

				Pilot trials, Demonstration activities		biofertilizers. The main goal is to reduce consumption of fertilizer and reduce water stress
AUXO AGRO	AUXO AGRO	France, CENTRE VAL DE LOIRE	Cereals	Testing and validation of technologies, Pilot trials, Demonstration activities	provision of plots to farmers, fertilizer market expertise before marketing, constrained knowledge of farmers and distributors, privileged access to my shareholders' market	Marketing of soil biostimulant products to my shareholder distributors

Table 1. Agro living labs identified

3.2 Geographic Distribution and Agro-Climatic Contexts

The Agro Living Labs and showcase farms identified under Task 5.2 are geographically distributed across different regions, reflecting the interregional scope and ambition of the I3-4-BIOFERTILIZERS project. At the time of submission of Deliverable 5.2, a first set of showcase farms has already been identified and characterised, providing an initial geographic and agro-climatic coverage for the Living Lab network.

This initial distribution has been designed to ensure diversity in agro-climatic conditions, soil characteristics and farming practices, which is essential to support the future validation, demonstration and transferability of innovative biofertilizer solutions. The currently identified sites cover regions representing Mediterranean, continental and transitional agro-climatic zones, characterised by different temperature regimes, rainfall patterns and seasonal constraints that influence nutrient dynamics, soil fertility and fertilization strategies.

Beyond climatic conditions, the identified showcase farms display diversity in soil types, production models and farm management practices. Farms operate under conventional, integrated and organic systems, reflecting real market conditions and regulatory frameworks across European agriculture. This diversity strengthens the relevance of the Living Lab network for future demonstration activities across different agronomic and sustainability-oriented contexts.

Importantly, the identification process for showcase farms and Agro Living Labs remains open and ongoing throughout the duration of Task 5.2. Additional showcase farms and living labs are expected to be progressively incorporated into the network as new candidate sites are identified through partner networks and the open Expression of Interest. This ongoing process is expected to lead to the inclusion of additional regions participating in the project, further reinforcing the interregional dimension of the Living Lab network.

At this stage, Deliverable 5.2 therefore provides a snapshot of the Living Lab network as it stands at an intermediate point in the identification process, without implying that the network is complete or closed. The expansion of the network, together with the activation of demonstration activities and monitoring frameworks, will be documented in Deliverable 5.3.

The geographic and agro-climatic diversity of the Living Lab network thus represents a dynamic and evolving asset for the project, supporting scalability, replication and alignment with the interregional innovation objectives of the I3 instrument.

4. Preparatory framework for biofertilizer demonstration activities

This section outlines the preparatory framework for future biofertilizer demonstration activities within the Living Lab network established under Task 5.2. At this stage of the project, demonstration activities are not yet implemented; instead, this section defines the conceptual alignment, design principles and structural elements that will guide the deployment of demonstration cases in subsequent phases.

The preparatory framework has been developed to ensure coherence between the Living Lab network and the innovation projects supported under Strand 2 of the Financial Support to Third Parties (FSTP). SMEs selected under Strand 2 will implement their biofertilizer solutions over a maximum duration of 12 months from contract signature. The Living Lab network provides the real-life agricultural environments required to host these field-based activities once they become operational.

The framework defined in this section focuses on three core dimensions: alignment with Strand 2 FSTP projects, Indicative demonstration typologies and field contexts.

4.1. Alignment with Strand 2 FSTP projects

The future biofertilizer demonstration activities foreseen within the Living Lab network will be closely aligned with the innovation projects supported under Strand 2 of the Financial Support to Third Parties (FSTP). Strand 2 provides support to SMEs for the development, validation and scaling of innovative biofertilizer solutions through implementation projects with a maximum duration of 12 months from contract signature.

Within this context, the Living Lab network established under Task 5.2 is designed to function as an enabling infrastructure that provides access to real-life agricultural environments suitable for field-based validation. The identification and characterisation of showcase farms carried out under Deliverable 5.2 ensure that a pool of ready and diverse testing environments is available when Strand 2 projects become operational.

Alignment between Strand 2 projects and the Living Lab network will be ensured through a structured matching process based on:

- the type and maturity level of the biofertilizer solution developed by the SME;
- the target crop(s) and intended application method;
- the agro-climatic and soil context of the showcase farm;
- the operational feasibility within the timeframe of the FSTP project.

This alignment process will enable demonstration activities to be designed in a way that is technically relevant for SMEs, meaningful for farmers and feasible within normal farm

operations. Early interaction between SMEs, farmers and project partners is expected to support co-creation, adaptation of application protocols and refinement of biofertilizer solutions under realistic conditions.

At the stage of Deliverable 5.2, alignment is defined at a conceptual and organisational level. The concrete allocation of Strand 2 projects to specific showcase farms, together with the detailed definition of demonstration activities, will be finalised during the implementation phase and documented in Deliverable 5.3.

4.2. Indicative demonstration typologies and field contexts

At this preparatory stage, biofertilizer demonstration activities are defined through indicative typologies, rather than through fixed or implemented demonstration cases. These typologies reflect the expected range of biofertilizer solutions, application strategies and agronomic contexts addressed by the I3-4-BIOFERTILIZERS project and provide a flexible framework for future field deployment.

Indicative demonstration typologies include, but are not limited to:

- Soil-applied biofertilizers, targeting improvements in soil fertility, nutrient availability and biological activity;
- Foliar and fertigation-based applications, aimed at enhancing nutrient uptake efficiency, crop performance and stress resilience;
- Biofertilizers derived from circular bioeconomy processes, including products based on organic residues or bio-based inputs;
- Integrated fertilization strategies, combining biofertilizers with reduced or optimised use of conventional mineral fertilizers.

These typologies are not prescriptive and may evolve as additional Living Labs are incorporated and as the portfolio of Strand 2 SME projects is finalised.

Field contexts for future demonstrations will be selected based on the characteristics of the showcase farms identified under Deliverable 5.2, including crop type (e.g. vineyards, fruit orchards, horticultural crops), soil conditions, climatic factors and existing management practices. Particular attention will be given to ensuring that field contexts are representative of real farming conditions and relevant for the validation objectives of the SMEs involved.

The final definition of demonstration cases—including application protocols, timing, monitoring parameters and duration—will be developed during the operational phase of the project and reported in Deliverable 5.3, together with the results generated through field implementation.

5. Conceptual monitoring and impact assessment framework

This section presents the conceptual monitoring and impact assessment framework that will guide future demonstration activities within the Living Lab network. At the stage of Deliverable 5.2, no monitoring results or impact data are reported. Instead, this section defines the methodological principles, data categories and organisational approach that will be applied once demonstration activities linked to Strand 2 FSTP projects are implemented.

The framework has been designed to be proportionate, flexible and compatible with real farming conditions, taking into account the diversity of crops, regions and innovation cases, as well as the 12-month duration of the FSTP implementation projects. Its primary objective is to ensure that future monitoring activities generate relevant, comparable and decision-oriented evidence, without imposing excessive burden on farmers or SMEs.

5.1 Objectives of the monitoring framework

The monitoring framework aims to support learning, validation and future impact assessment of biofertilizer solutions demonstrated within the Living Lab network. At a conceptual level, its objectives are to:

- support the technical validation of biofertilizer solutions under real farming conditions;
- enable comparative assessment of different fertilization strategies, where relevant;
- capture environmental and sustainability-related effects, particularly in relation to soil health and input efficiency;
- collect qualitative feedback from farmers regarding usability, feasibility and perceived benefits;
- generate structured evidence to support replication, scalability and market uptake of innovative solutions.

These objectives guide the design of future monitoring activities but do not imply that all indicators will be applied uniformly across all demonstration cases. Monitoring intensity and scope will be adapted to the specific objectives and constraints of each Strand 2 project.

5.2. Indicative data categories and KPIs

At this stage, monitoring indicators are defined at the level of indicative data categories, rather than fixed or mandatory KPIs. This approach ensures flexibility and relevance across different crops, biofertilizer types and demonstration contexts.

Indicative data categories include:

- Agronomic parameters, such as crop performance indicators relevant to the specific crop and context (e.g. yield-related metrics, crop quality attributes);
- Soil-related indicators, focusing on aspects of soil fertility, nutrient availability or biological activity, where feasible;
- Input use and efficiency, including qualitative or quantitative information on changes in fertilization practices;
- Environmental aspects, such as potential reductions in conventional inputs or improved nutrient management;
- User feedback and acceptance, capturing farmers' perceptions, operational constraints and willingness to continue using biofertilizer solutions.

The selection of specific indicators will be defined during the implementation phase in alignment with the objectives of each demonstration case and the feasibility of data collection within the FSTP project timeframe. Detailed KPIs and measurement protocols will be reported in Deliverable 5.3.

5.3. Data collection principles

Data collection within the Living Lab network will be guided by a set of common principles designed to ensure consistency, feasibility and usefulness of the information collected.

Key principles include:

- Baseline-oriented logic, where feasible, to allow comparison with existing fertilization practices;
- Farmer-centred implementation, prioritising data that can be realistically collected within normal farm operations;
- Shared responsibility, with data collection involving farmers, SMEs and project partners according to their roles and capacities;
- Iterative feedback, enabling early learning and adaptation of demonstration setups;
- Proportionality, ensuring that monitoring requirements remain compatible with the scale and duration of the demonstration activities.

At the stage of Deliverable 5.2, the monitoring and impact assessment framework is intentionally defined at a conceptual level. Detailed monitoring plans, indicators and data collection tools will be developed and implemented in subsequent project phases and documented in Deliverable 5.3.

6. Governance and collaboration framework for the Living Lab Network

This section describes the governance and collaboration framework supporting the Living Lab and showcase farm network established under Task 5.2. At this stage of the project, the framework focuses on defining roles, coordination mechanisms and interaction principles among actors involved in the identification and preparation phase, rather than on reporting implemented activities.

The governance model is designed to support a multi-actor, interregional and scalable Living Lab network, ensuring coherence across regions while allowing flexibility to adapt to local contexts. It provides the organisational backbone required for the future activation of demonstration activities linked to Strand 2 FSTP projects.

6.1 Multi-Actor Collaboration Model

The Living Lab network operates under a multi-actor collaboration model that brings together farmers, SMEs, technology providers, research organisations, clusters and regional stakeholders. This model reflects the core principles of the Living Lab approach and the interregional innovation investment logic of the I3-4-BIOFERTILIZERS project.

At the stage of Deliverable 5.2, the multi-actor model is applied primarily to support the identification, engagement and alignment of actors, creating the conditions for effective interaction during future implementation phases. Farmers are engaged as active partners, contributing practical knowledge and contextual insights that will inform the design of future demonstration activities.

The collaboration model emphasises early interaction, transparency and mutual learning. It facilitates dialogue between innovation developers and end users, enabling SMEs to better understand operational constraints and farmers to gain early visibility on emerging biofertilizer solutions.

6.2. Role of FEMAC

FEMAC acts as the coordinating entity of the Living Lab network under Task 5.2, leveraging its role as a cluster organisation to connect industrial partners, farmers, research organisations and regional stakeholders.

Within the scope of Deliverable 5.2, FEMAC's responsibilities include:

- coordinating the identification and engagement of Agro Living Labs and showcase farms;
- ensuring alignment of the Living Lab network with WP5 objectives and the overall project strategy;
- facilitating interaction and information exchange among project partners and regions;
- supporting the definition of preparatory frameworks for demonstration, monitoring and collaboration;
- ensuring coherence and consistency in the characterisation of living labs and showcase farms.

Through this coordination role, FEMAC provides governance continuity and acts as a central interface between the Living Lab network and other project components, including the Strand 2 FSTP implementation.

6.3. Contribution of project partners

All project partners contribute to the Living Lab network according to their expertise, regional presence and role within the project. At the stage of Deliverable 5.2, partner contributions focus primarily on identification, engagement and preparatory activities, ensuring that the network is robust, representative and ready for future activation.

Key partner contributions include:

- identification of potential showcase farms and Agro Living Labs within their regions;
- support to the dissemination of the open Expression of Interest (EOI) and engagement of candidate sites;
- contribution to the screening and characterisation of living labs and showcase farms;
- provision of technical and contextual input to support the preparatory design of future demonstration activities;
- support to interregional coordination and knowledge exchange.

In addition to this distributed contribution model, close coordination with specific work packages plays a critical role in the effective preparation and future activation of the Living Lab network.

In particular, the collaboration with the coordinators of Work Package 3 (WP3) is essential, as WP3 is responsible for the implementation of the Financial Support to Third Parties

(FSTP). Within WP3, the involvement of the designated internal referents for each Strand 2 project ensures effective alignment between SME innovation projects and the Living Lab network. These internal referents act as operational interfaces, facilitating the matching of SME solutions with suitable showcase farms and supporting coordination during the preparation and implementation of future demonstration activities.

Similarly, the collaboration with the coordinators of Work Package 7 (WP7) plays a key role in supporting visibility, communication and continuous engagement of the Living Lab network. WP7 is responsible for the dissemination of information related to the open Expression of Interest and for the ongoing communication activities that promote the Living Lab network. Through WP7, updates on newly identified Agro Living Labs are communicated and the evolving list of participating sites is maintained and made publicly available on the project website.

This close interaction between WP5, WP3 and WP7 ensures coherence between innovation implementation, field readiness and communication activities, reinforcing the Living Lab network as a dynamic, visible and scalable infrastructure throughout the project lifecycle.

Actor / Role	Work Package	Main Responsibilities within the Living Lab Network (D5.2)
FEMAC (Living Lab Coordinator)	WP5	Overall coordination of the Living Lab network; definition of governance and collaboration framework; alignment with WP5 objectives; coordination of identification and engagement of Agro Living Labs and showcase farms; interface with WP3 and WP7.
Project Partners (regional level)	WP5	Identification of potential showcase farms and Agro Living Labs within their regions; support to dissemination of the Expression of Interest (EOI); screening and characterisation of candidate sites; contribution to preparatory design of future demonstration activities.
WP3 Coordinators (FSTP management)	WP3	Coordination of Financial Support to Third Parties (FSTP); alignment of Living Lab network with Strand 2 implementation projects; coordination with WP5 to ensure availability of suitable field environments for SMEs.
WP3 Internal Referents (per Strand 2 project)	WP3	Operational interface between SMEs and the Living Lab network; support to matching SME biofertilizer solutions with appropriate showcase farms; facilitation of coordination during preparation and future implementation of demonstration activities.
SMEs supported under Strand 2 (future role)	WP3	Development and validation of innovative biofertilizer solutions; preparation for future field-based demonstration activities within the Living Lab network once projects are operational.
WP7 Coordinators (Communication and Dissemination)	WP7	Dissemination of the Expression of Interest (EOI); communication and visibility of the Living Lab network; continuous update of the list of Agro Living Labs joining the network; maintenance of public information on the project website.

Showcase Farms / Agro Living Labs	WP5	Provision of real-life agricultural environments; engagement in preparatory alignment activities; readiness to host future demonstration and monitoring activities linked to Strand 2 projects.
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Table 2. Roles and responsibilities

The roles described in this table reflect the preparatory phase of the Living Lab network as documented in Deliverable 5.2. Responsibilities related to the implementation of demonstration activities and monitoring will be further detailed in Deliverable 5.3

6.4. Knowledge exchange and capacity building

The Living Lab network is conceived not only as a structural and operational framework for future demonstration activities, but also as a platform to facilitate knowledge exchange and capacity building among the actors involved. Within the scope of Deliverable 5.2, knowledge exchange activities are addressed at a preparatory and organisational level, focusing on alignment, awareness and readiness rather than on the delivery of formal training or dissemination events.

At this stage, knowledge exchange primarily takes place through coordination meetings, bilateral exchanges and preparatory interactions among project partners, farmers, SMEs and work package coordinators. These interactions support the alignment of expectations, the clarification of roles and the identification of potential synergies between innovation projects and suitable Living Lab contexts.

Capacity building under Task 5.2 focuses on enhancing the readiness of actors to engage in future demonstration and monitoring activities. This includes familiarisation with the Living Lab approach, preliminary discussions on field requirements, and early exchanges on data needs and operational constraints. Farmers and living lab managers are engaged to ensure that future activities can be integrated into normal farm operations.

More structured knowledge exchange and capacity-building activities—such as demonstration events, study visits, peer-to-peer learning actions or targeted training sessions—will be progressively implemented once field demonstrations linked to Strand 2 FSTP projects are underway. These activities, together with their outcomes, will be documented in Deliverable 5.3 and related dissemination deliverables under WP7.

7. Expected impact, replicability and scalability

This section outlines the expected impact and long-term potential of the Living Lab and showcase farm network established under Task 5.2. At the stage of Deliverable 5.2, impacts are described in prospective terms and reflect the anticipated contribution of the Living Lab once fully activated through future demonstration activities linked to Strand 2 FSTP projects.

The impacts described below do not represent measured results or achieved outcomes, but rather the pathways through which the Living Lab network is expected to contribute to innovation uptake, sustainability and interregional cooperation over the course of the project and beyond.

7.1. Expected impact

The Living Lab network established under Task 5.2 is expected to generate positive impacts across agronomic, environmental, socio-economic and innovation dimensions once demonstration activities are implemented.

From an agronomic perspective, the Living Lab is expected to support the validation of innovative biofertilizer solutions under real farming conditions, contributing to improved nutrient management strategies and supporting stable crop performance across different cropping systems.

From an environmental perspective, future demonstration activities are expected to contribute to improved soil health, enhanced nutrient use efficiency and reduced reliance on conventional mineral fertilizers. These outcomes align with EU priorities related to sustainable soil management, climate resilience and biodiversity protection.

From a socio-economic and innovation uptake perspective, the Living Lab network is expected to reduce adoption barriers for farmers by providing credible, field-based evidence and facilitating direct interaction with SMEs and technology providers. This is anticipated to strengthen trust in biofertilizer solutions and support informed decision-making at farm level.

At a systemic level, the Living Lab is expected to strengthen interregional biofertilizer value chains by connecting SMEs, farmers, clusters and research organisations, contributing to regional competitiveness and innovation-driven growth.

7.2. Replicability across regions and value chains

A core objective of the Living Lab network is to ensure that future demonstration approaches and validated solutions are replicable across regions and agricultural value chains. Replicability is supported by the diversity of agro-climatic contexts, cropping systems and production models represented in the Living Lab network.

The use of harmonised methodologies, common selection criteria and standardised characterisation templates facilitates the transfer of demonstration approaches to additional farms and regions. Lessons learned through future demonstration activities will be documented in a structured manner, enabling other regions to adapt biofertilizer solutions to their specific agronomic and regulatory contexts.

The open and expandable nature of the Living Lab network further enhances replicability, allowing new living labs and regions to join the network using the same methodological framework

7.3. Scalability and long-term deployment

Beyond replication at farm level, the Living Lab network is designed to support the scalability of biofertilizer solutions and sustainable fertilization practices at regional, national and interregional levels.

By preparing a network of real-life testing environments and a clear governance and monitoring framework, Task 5.2 reduces technical, organisational and adoption-related risks associated with scaling-up innovative solutions. The evidence generated through future demonstration activities is expected to support go-to-market strategies, investment readiness and policy alignment.

The Living Lab model itself represents a scalable approach that can be extended beyond the project duration, serving as a blueprint for future interregional collaboration initiatives in sustainable agriculture and the circular bioeconomy.

8. Conclusions and Next Steps

8.1 Conclusions

Deliverable 5.2 reports on the identification, selection and initial structuring of a European network of Agro Living Labs and showcase farms within the I3-4-BIOFERTILIZERS project. Coordinated by FEMAC under Task 5.2 of Work Package 5, this deliverable represents a foundational milestone in the progressive establishment of a Living Lab infrastructure designed to support future piloting, validation and demonstration of innovative biofertilizer solutions under real farming conditions.

The deliverable documents a structured and transparent methodology combining targeted partner outreach and an open European Expression of Interest to identify suitable real-life agricultural environments. As a result, a first cohort of Agro Living Labs and showcase farms has been identified and characterised across different regions, cropping systems and agro-climatic contexts. The selected sites are described in terms of their agronomic relevance, technical capacity and engagement readiness, providing a representative and expandable basis for future field-based activities.

Beyond the identification of physical testing environments, Deliverable 5.2 establishes the methodological, organisational and governance frameworks required to support the Living Lab approach. This includes common selection criteria, preparatory principles for demonstration design, a conceptual monitoring and feedback framework, and a multi-actor collaboration model ensuring alignment between farmers, SMEs, project partners and relevant work packages.

Importantly, Deliverable 5.2 does not report implemented demonstration activities or measured impacts. Instead, it focuses on preparing the enabling conditions for effective future activation of the Living Lab network, particularly in alignment with the

implementation of Strand 2 Financial Support to Third Parties (FSTP) projects.

Overall, the Living Lab network established through this deliverable constitutes a strategic asset for interregional cooperation, supporting innovation uptake, knowledge exchange and the long-term deployment of biofertilizer solutions in line with EU sustainability, circular bioeconomy and soil health objectives

8.2 Next Steps

Building on the outcomes of Deliverable 5.2, the next phase of activities will focus on the activation, consolidation and expansion of the Living Lab network in close coordination with other project components.

Key next steps include:

- the continued identification and onboarding of additional Agro Living Labs and showcase farms, ensuring further geographic, agro-climatic and crop diversity as the identification process remains open throughout Task 5.2;
- the operational alignment of Strand 2 FSTP projects with suitable Living Lab environments, in close coordination with WP3 coordinators and internal project referents;
- the progressive design and implementation of biofertilizer demonstration activities under real farming conditions once SME projects become operational;
- the deployment of monitoring and feedback activities based on the conceptual framework defined in this deliverable, enabling the collection of agronomic, environmental and user-related data;
- the ongoing communication and visibility of the Living Lab network, including regular updates of participating sites through WP7 communication channels and the project website.

These next steps, together with the expansion of the Living Lab network and the reporting of implemented demonstration cases, monitoring activities and impact assessment results, will be documented in Deliverable 5.3, ensuring continuity and transparency in the progressive deployment of the Living Lab approach.