

Monitoring and Evaluation of Soil Health Living Labs

Online Training Session



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Housekeeping



Please keep your microphone muted when you're not speaking



We will be using Menti (menti.com) for interaction, so be ready to engage!



There will be a Q&A at the end of the training where you will be asked to raise your hand and speak up. If you have any questions in the meantime, please add them to the chat



If possible, we'd love for you to turn your cameras on and rename yourself for easy identification on Zoom during the training, but....



Please note that **this session is recorded** and will be shared with all Living Labs

- Turn off your camera if you don't want to be in the recording,
- Anonymize your Zoom name accordingly.

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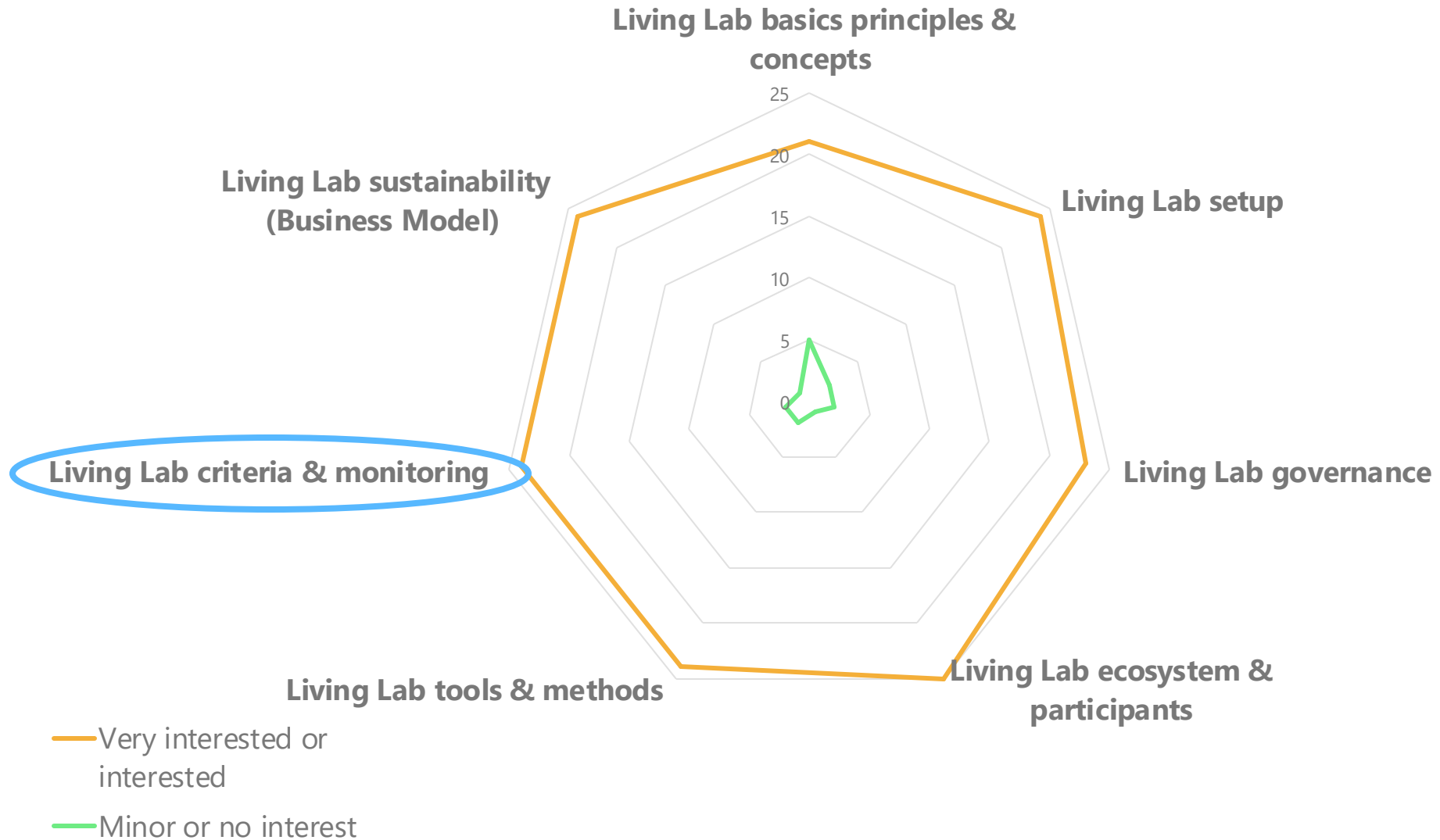
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Context: SHLL Learning Journey



Needs assessment: your feedback



Today's Trainers



Giulia Campodonico
European Network of
Living Labs (ENoLL)



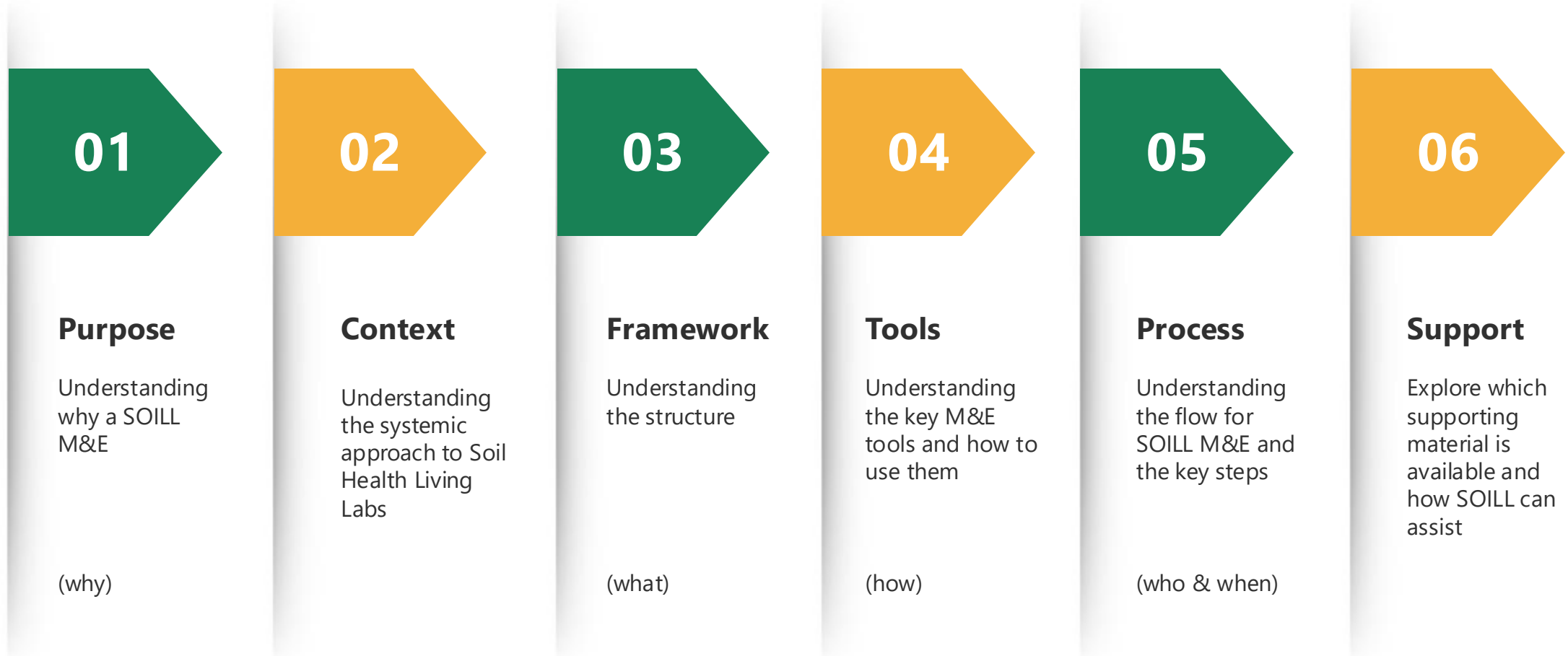
Koen Vervoort
European Network of
Living Labs (ENoLL)



Saskia Visser
EIT Climate KIC (CKIC)

What are we exploring today?

SOILL Monitoring & Evaluation



PURPOSE

Why a SOILL Monitoring
& Evaluation of Living
Labs?



What does SOILL-Startup offer?

Training & capacity building

SOILL learning journey (online, in person, mentoring)
Helpdesk

Engagement & promotion

LL Catalogue & Atlas
Presentations & tailored news
Awards
Engagement events across Europe

Coordination & support

Dedicated priority contacts for LLS
Access to information on LLS

SOILL Hub

LLS profile & Atlas
Matchmaking/marketplace
Knowledge repository
Communication & exchange
Helpdesk & support

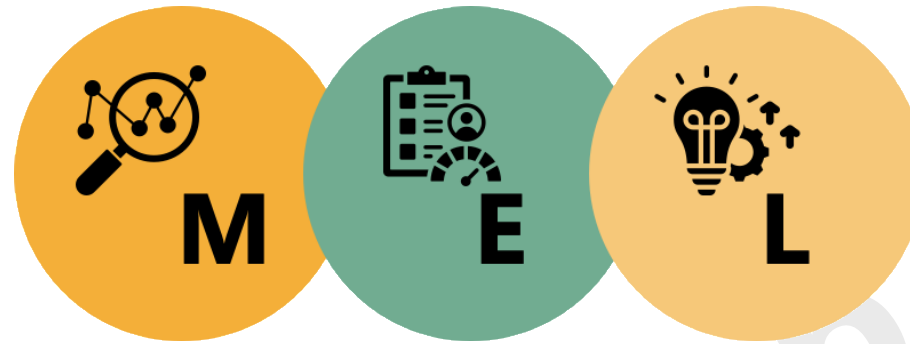
Knowledge sharing & networking

Exchange with peers
Knowledge sharing events
SOILL Working Groups

Monitoring & evaluation

Monitoring framework
Guidelines, Reporting, Recommendations

Why SOILL Monitoring & Evaluation?



MONITOR

Regular monitoring of SHLL/LH network's action, **results, data, and impacts** to track **performance** and **outcomes**

EVALUATE

Evaluate progresses against Mission Soil objectives and criteria, while analysing **trends, progress** and **challenges**

LEARN

Transform monitoring and evaluation insights into **actionable recommendations** to **improve actions**, enhancing implementation and **scaling impact**

CONTEXT

Where do we start from?



The systemic approach in the **Mission Soil**

100 living labs and lighthouses to lead the transition to healthy soils by 2030



8 specific objectives

1. Reduce desertification

2. Conserve and increase soil organic carbon stocks

3. Stop soil sealing and increase re-use of urban soils

4. Reduce soil pollution and enhance restoration

5. Prevent erosion

6. Improve soil structure to enhance soil biodiversity

7. Reduce the EU global footprint on soils

8. Improve soil literacy in society

Objectives apply to **all types of land use** and **all territories** and are relevant for **a range of sectors**



4 operational objectives

4. Soil literacy, communication, citizen engagement

1. R&I programme

3. Soil monitoring

2. Living labs and lighthouses

Main vehicle for addressing the diversity of conditions and **generating locally adapted solutions**

The systemic approach in **Soil Health Living Labs**



**Living Lab
approach**



**European
Network of
Living Labs**

- LL harmonized approach
- Long term stability of the LL



**Soil Health
impact**



- Mission Soil objectives
- Soil health monitoring

The systemic approach in the **SOILL M&E framework**



Living Lab
approach



Soil Health
impact

Living labs: definitions and focus



Living Lab
approach

Living Labs

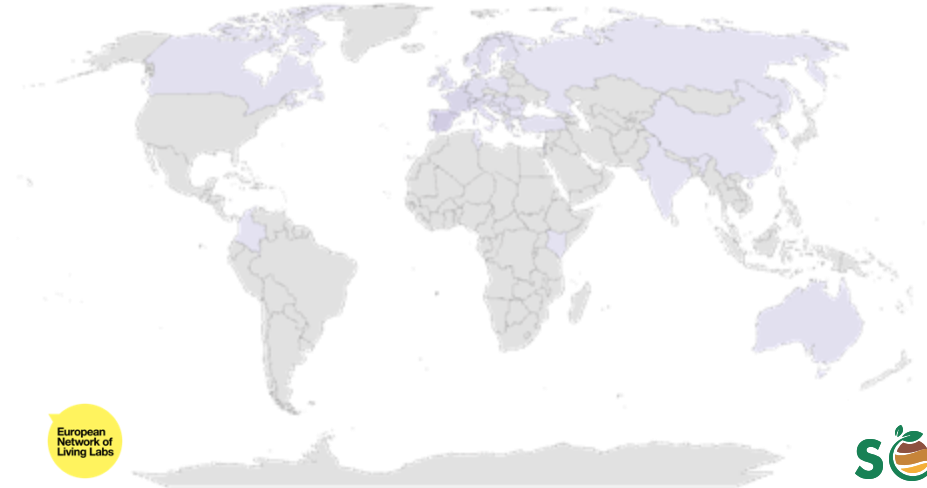
European
Network of
Living Labs

Living Labs are open innovation ecosystems in real-life environments based on a systematic user co-creation approach that integrates research and innovation activities in communities, placing citizens at the centre of innovation.

Soil Health Living Labs



User-centred, place-based and transdisciplinary research and innovation ecosystems, which involve land managers, scientists and other relevant partners in systemic research and co-design, testing, monitoring and evaluation of solutions, in real-life settings, to improve their effectiveness for soil health and accelerate adoption.



European
Network of
Living Labs



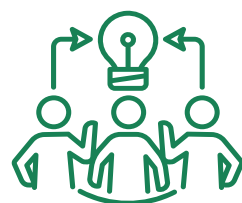
Living Lab
approach

Living labs: key common elements

COMMON CHARACTERISTICS



Active user
Involvement



Co-creation &
co-design



Real Life
context



Multi Stakeholder
Participation



Multi Methods
approach



Orchestration

MULTIPLE & DIFFERENT IMPLEMENTATIONS

combining **tools and methods**
from different fields

or

providing new ones
according to **specific contexts**,
(e.g., soil)

Living labs: harmonisation framework



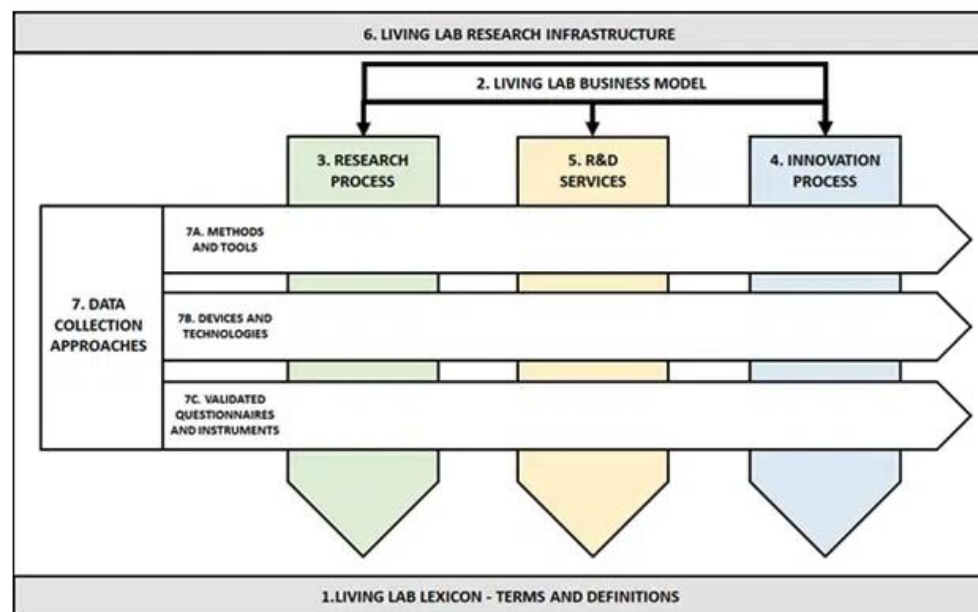
Living Lab
approach

Align processes, services, tools, and methods

while respecting the unique attributes of each Living Lab



European
Network of
Living Labs



LL wiki



LL lexicon



LL guidelines

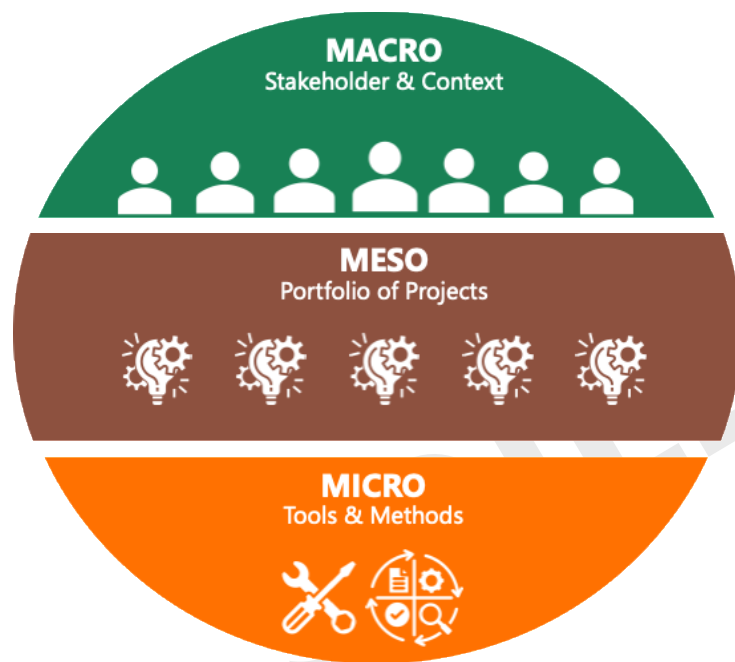


ENoLL LL harmonized
evaluation framework
for certification

Living labs: three-layered model



Living Lab
approach



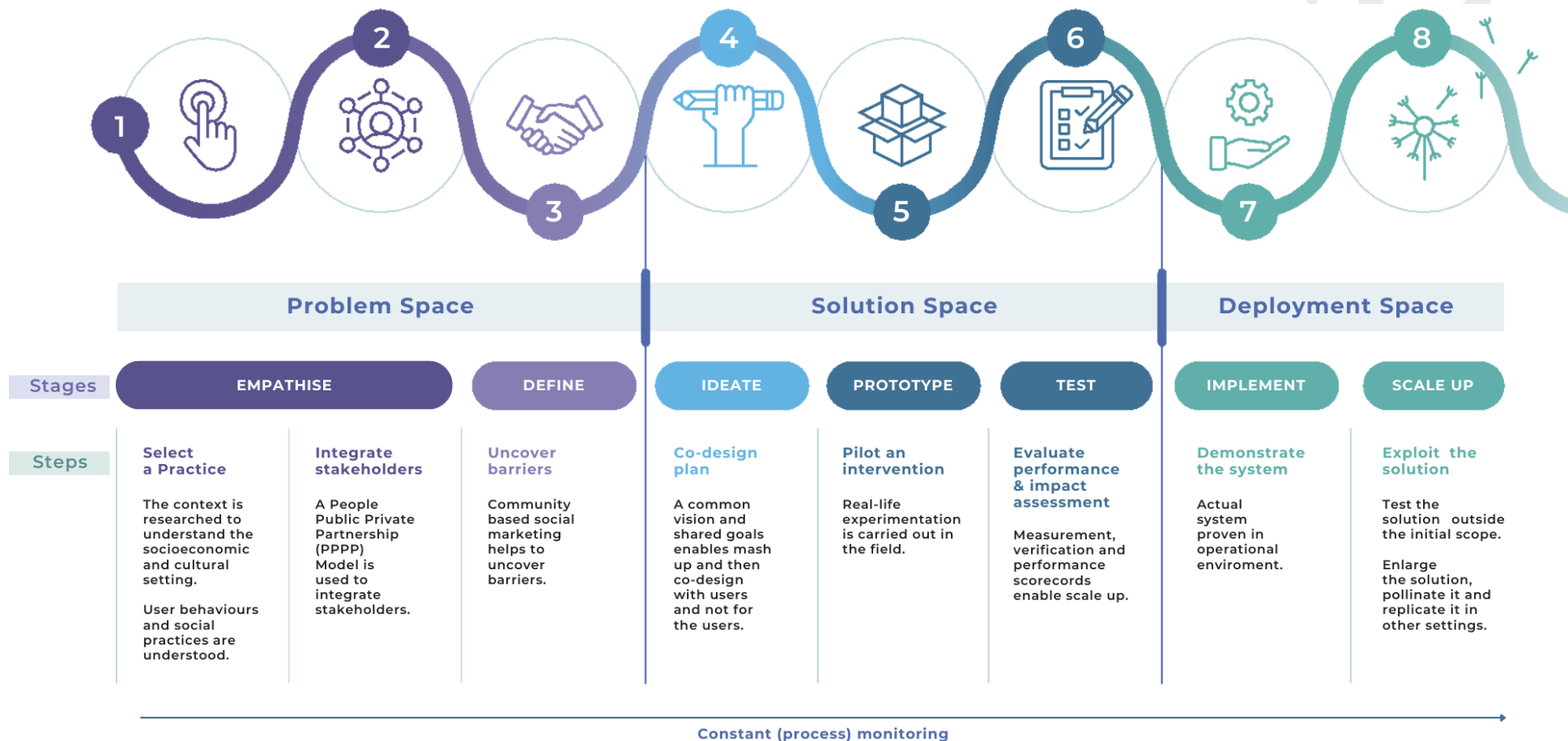
LAYER	DEFINITION	RESEARCH PARADIGM	LEVEL
MACRO	Living Lab constellation consisting of organised stakeholders	Open Innovation: Knowledge transfers between organizations	PPPP
MESO	Living Lab innovation project using Living Lab methodologies	Open & User innovation: Real life experimentation, active user involvement, multi-method and multi-stakeholder	PROJECT
MICRO	Individual Living Lab research steps and activities linked to the stakeholders' assets and capabilities	User innovation: User involvement & contribution for innovation	ACTIVITIES

© Dr. Dimitri Schuurman, imec – Ugent <https://biblio.ugent.be/publication/5931264/file/5931265.pdf>

Living Lab: Integrative process



Living Lab
approach



Based on the original work developed by Mastelic, J. (2019). Stakeholders' engagement in the co-design of energy conservation interventions: The case of the Energy Living Lab.
<https://academy.enoll.org/course/living-lab-integrative-process-training>

Why a SOILL LL monitoring?



Monitor compliance to SHLL criteria, deviations and difficulties



Informed support to sustain practices, implementation, engagement, and planning



Certify Soil Health Living Labs (both Mission & European)



Identify dos & don'ts to share with the whole LL network and future applicants for knowledge & experience sharing

Proposed Soil Monitoring Law

- Provides a legal framework to help achieve healthy soils
- Puts in place a solid and coherent monitoring framework for all soils
- Makes sustainable soil management the norm in the EU
- Asks MS to identify potentially contaminated sites



Monitoring Soil health requires understanding of:

- Soil Health, Soil Quality and Soil Functions
- Soil Monitoring
- Reference values, threshold values and target values

Soil Function

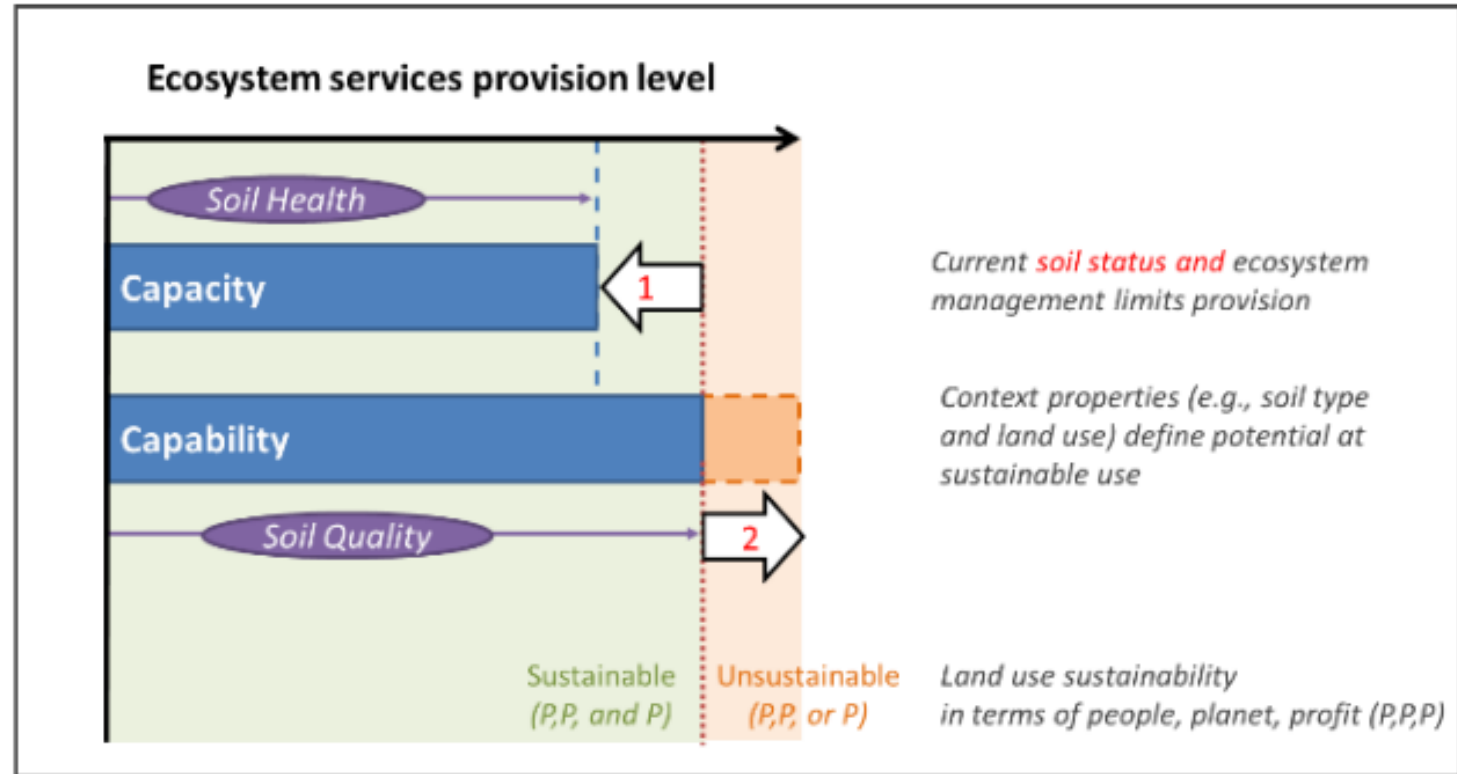
All soils / land perform all functions...

...but different parts of the land(scape) are better at delivering different functions

SCHULTE ET AL.
2014
ENVIRONMENTAL
SCIENCE AND
POLICY



SOIL HEALTH vs SOIL QUALITY

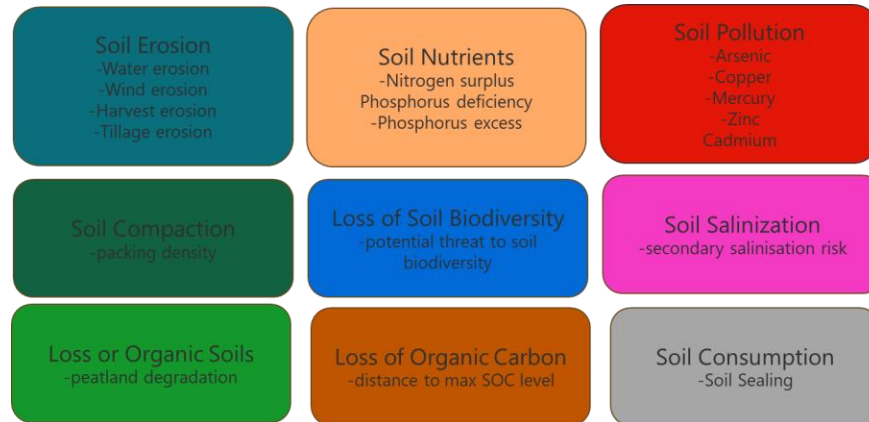


- 1 Reduction of ecosystem services provision is linked to soil degradation, management practices, climate change, etc.
- 2 Increase of ecosystem services provision is possible by using fertilizers, pesticides, intensive tillage and other management practices, but lead to increased trade-offs to other services, to other people, elsewhere or later.

SOIL Monitoring

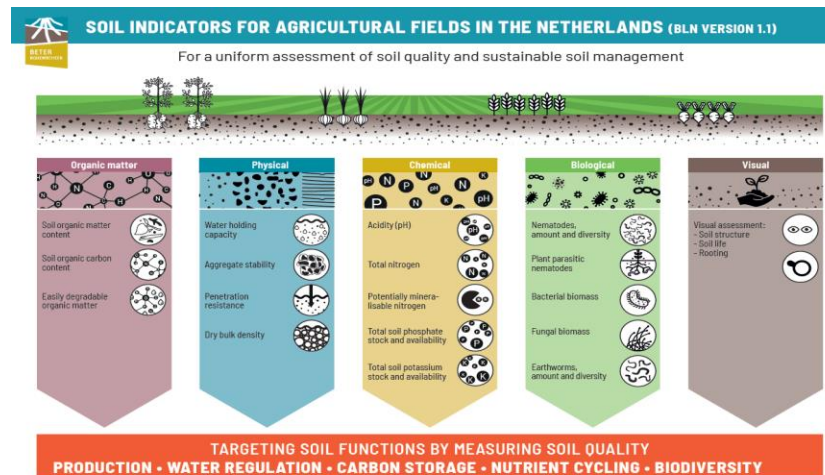


Soil Health
impact



Difference in indicator sets to monitor on 'progress to soil health' vs monitor to provide advice

- Indicators for national reporting
- Indicators to provide perspective for action



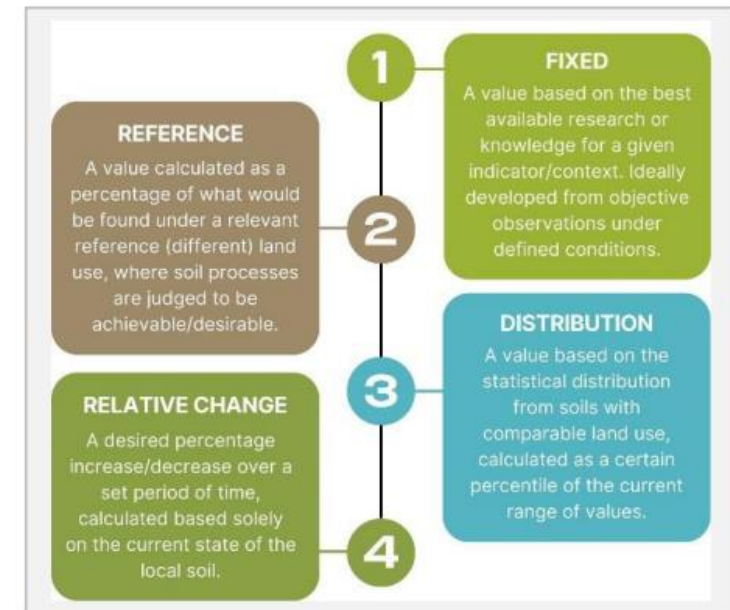
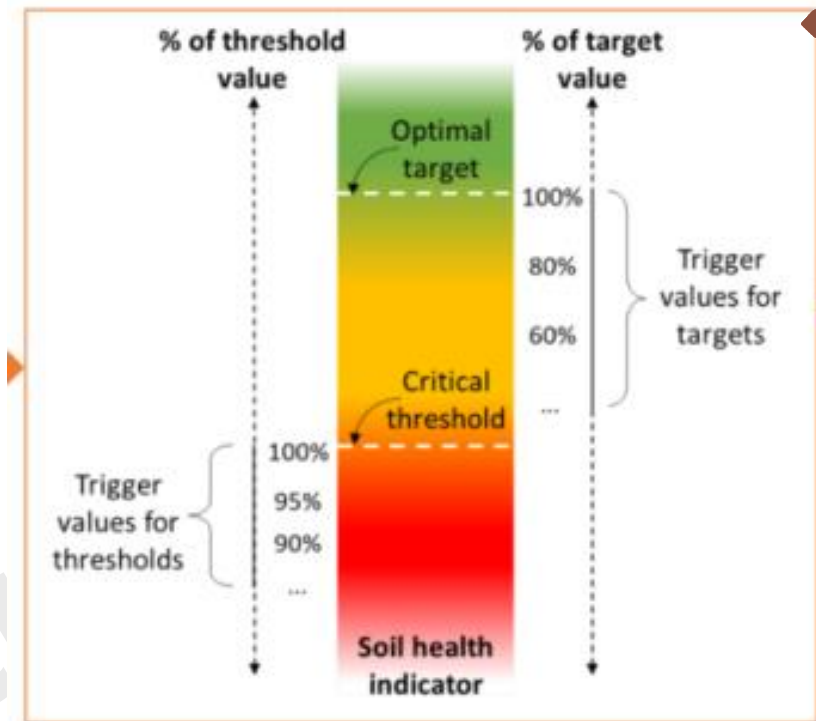
SOILL is interested in:

- Selection of parameters in relation to function
- Use of SOIL Law parameters?

Page 87 Annex [<https://data.consilium.europa.eu/doc/document/ST-11299-2024-INIT/en/pdf>]

What is a 'good' SOIL Health?

- Targets and thresholds are highly site-, management and climate-specific.
- No validated assessment system with that level of detail (EEA 2023)
- 4 approach to come to target values



WHY SOIL(L) monitoring

Soil Mission interested in:

- What are the indicators the SHLL and SHLH are using to measure their Soil health
- What is the contribution of the SHLL to healthy soils in EU
- What are developments in soil monitoring practices

SOIL-LL & LH monitor to:

- Generate insight in the (progress of the) health of soils
- Translate soil information to management advice/improved practices
- Understand the 'quality' of innovative monitoring practices

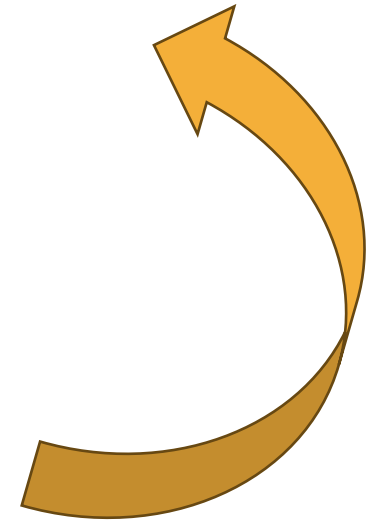
Soil Mission reporting

- Overall objective of the SHLL
- Indicators used
- Measurement techniques used yes/ no according to Soil Monitoring law
- Overall (anonym) quality of the Soil monitoring schemes

Feedback to Soil monitoring plan

Monitoring Soil health requires understanding of:

- Soil health, Soil Quality and Soil Functions
- Soil Monitoring
- Reference values, threshold values and target values



SOILL Evaluation & Monitoring **Framework**

(what)



SOILL monitoring & evaluation framework

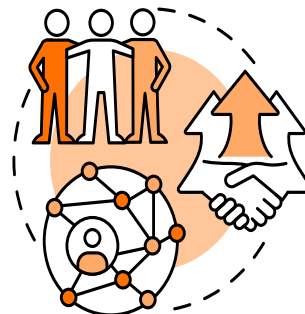
STRATEGY



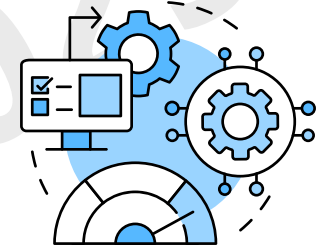
OPERATIONS



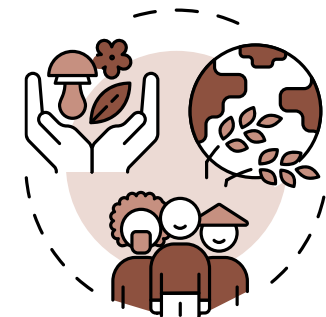
OPENNESS



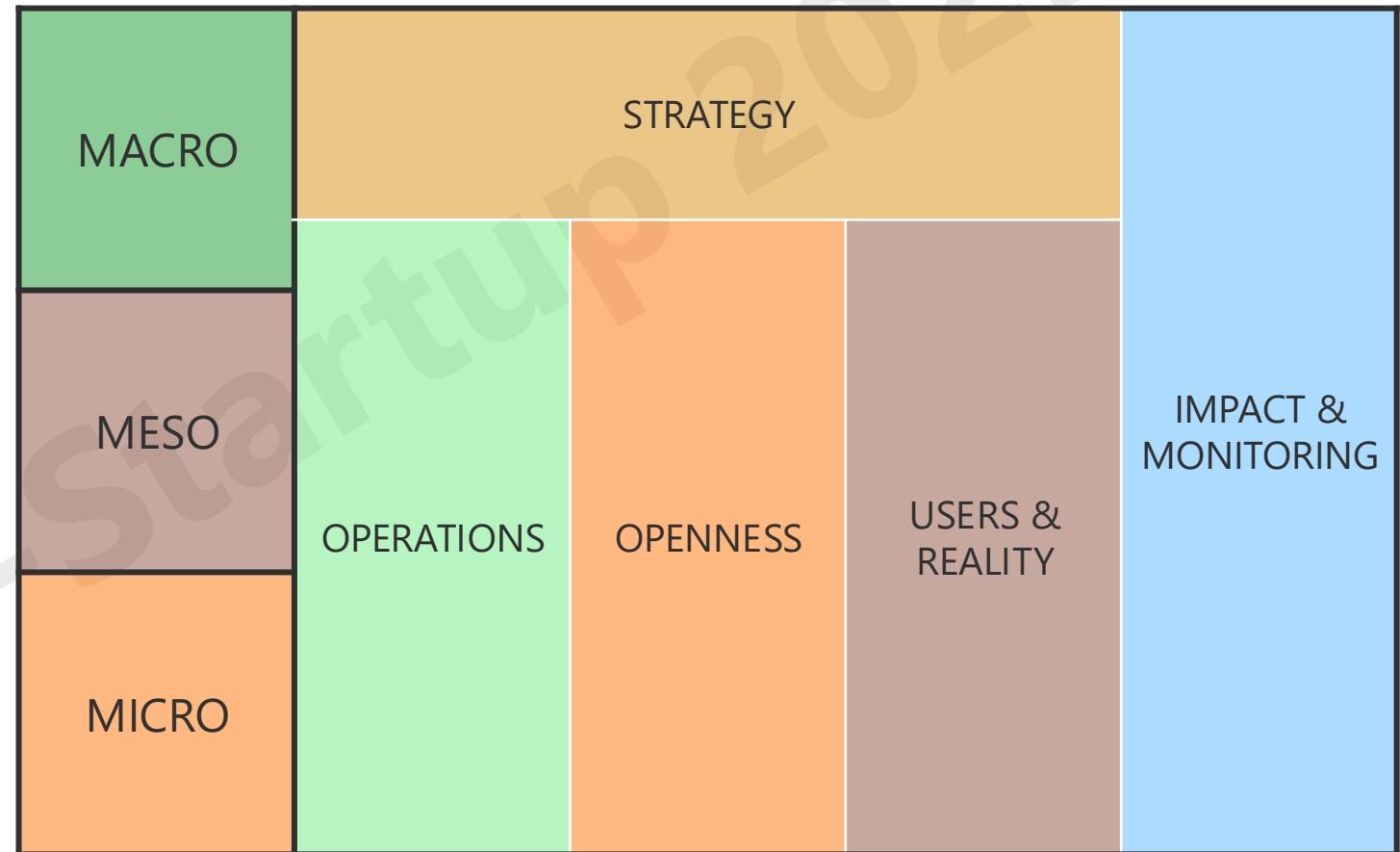
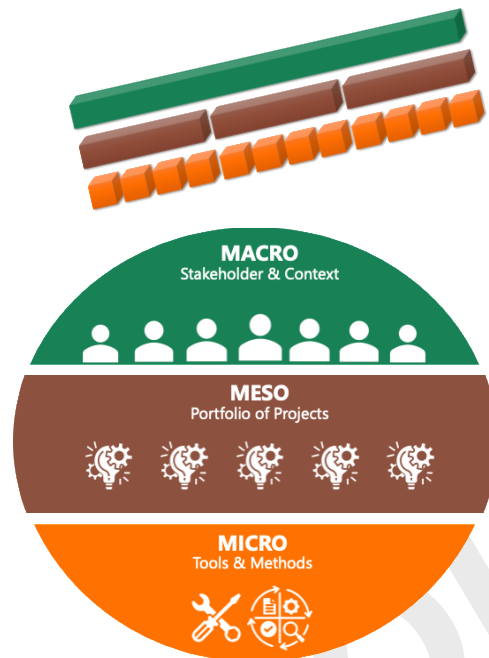
IMPACT & MONITORING



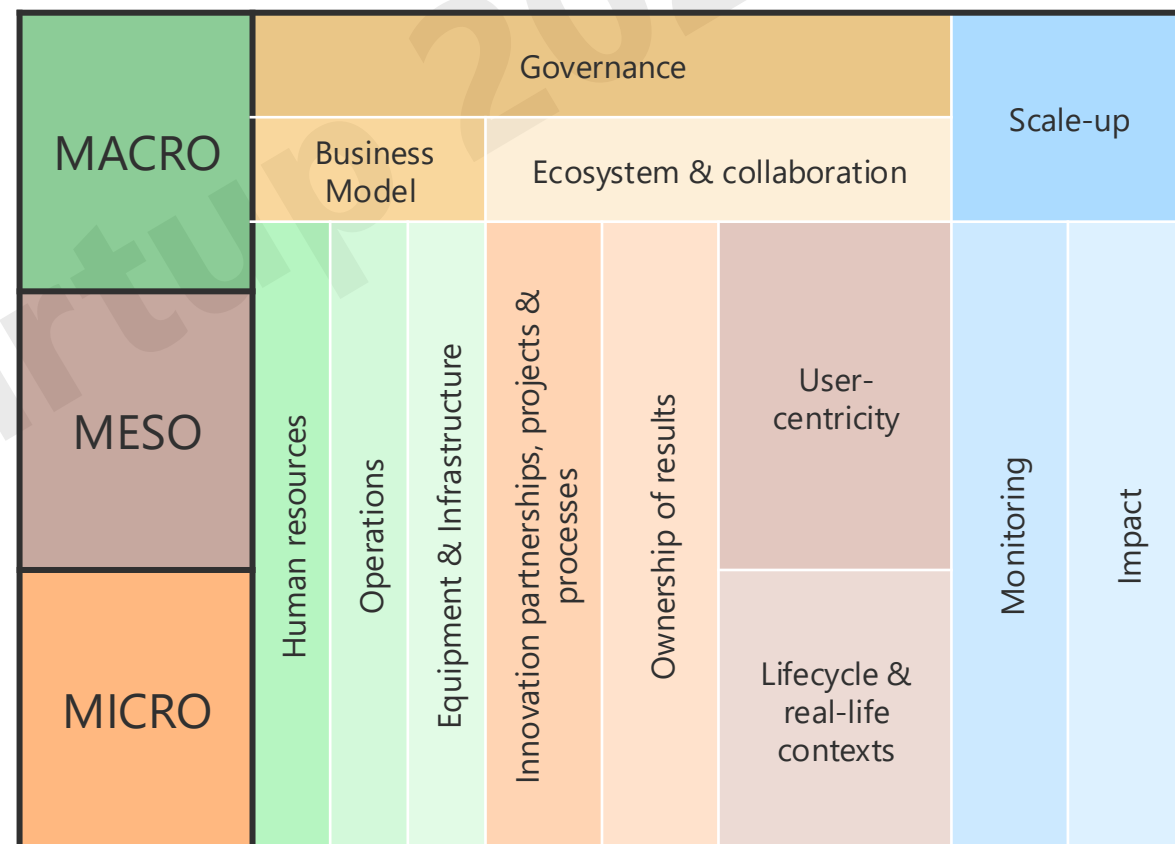
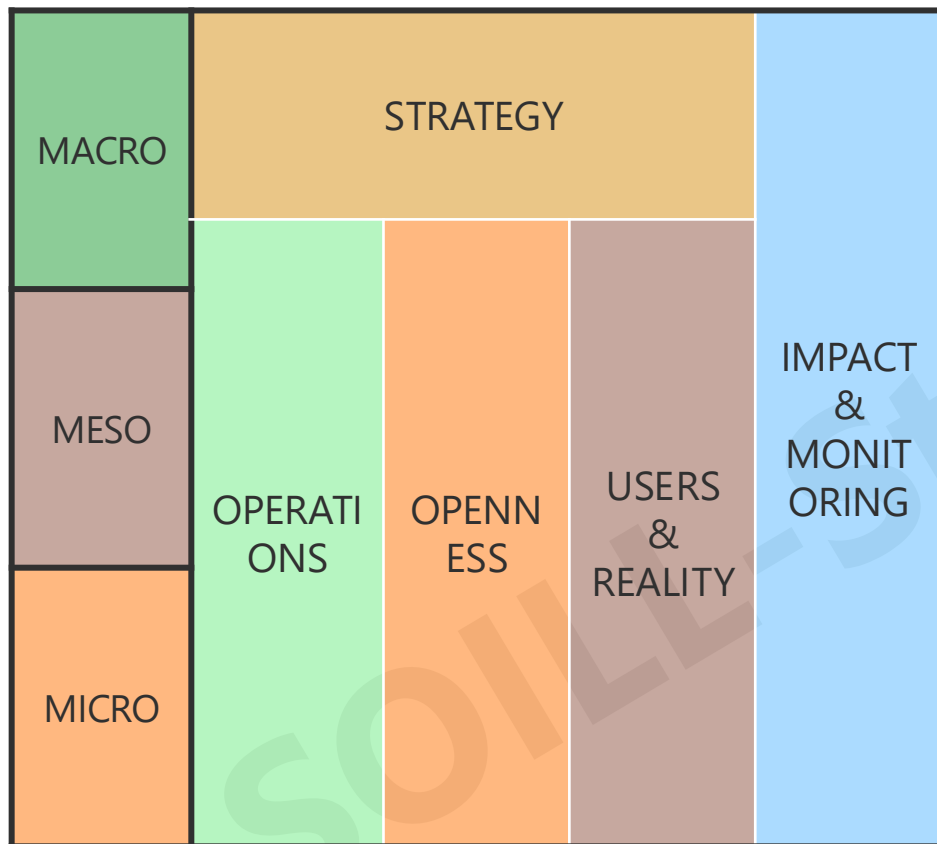
USERS & REALITY



SOILL M&E framework: 5 chapters



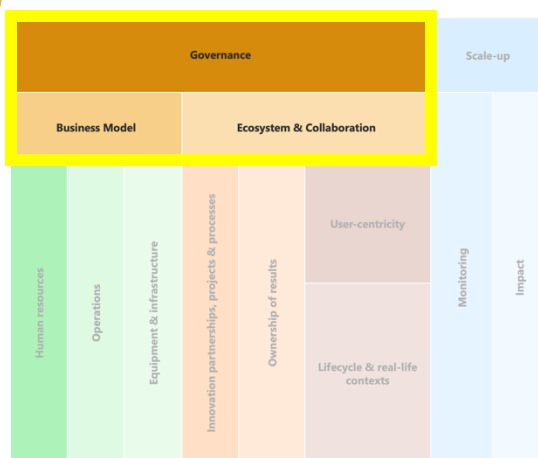
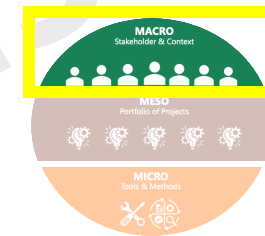
SOILL M&E framework: 13 criteria



SOILL M&E framework: **Strategy**



This chapter addresses long-term and strategic aspects of a Soil Health Living Lab, such as multi-stakeholder participation, the orchestration role of the Soil Health Living Lab, the business model approach and stability of the Soil Health Living Lab.

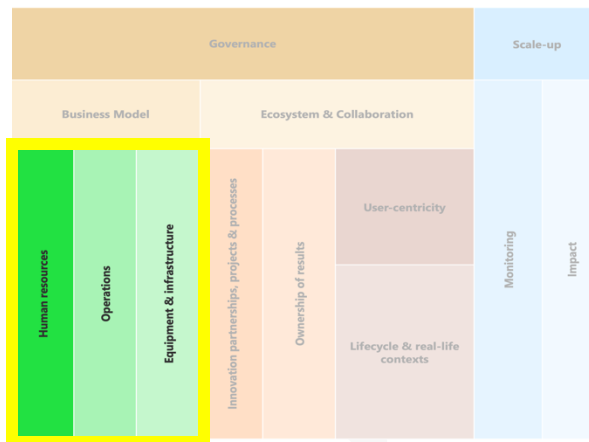
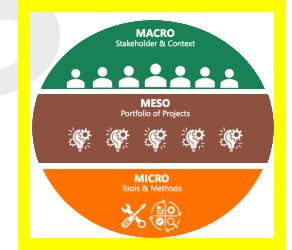


- **Governance**, including a strategic roadmap for the Soil Health Living Lab, stakeholder involvement in the vision & mission and the governance structure of the SHLL and signed collaboration agreements.
- **Business Model**, including the described business model approach, the number of services offered by the SHLL and the level of financial sustainability of the SHLL.
- **Ecosystem and collaboration**, including regional, national, and international collaborations beyond the scope of an individual Living Lab projects, communication and results sharing and the customers of the SHLL.

SOILL M&E framework: **Operations**

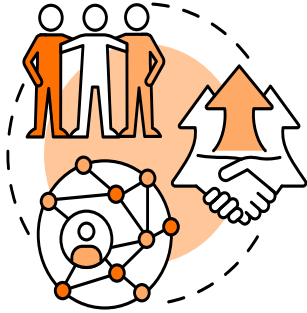


This chapter considers the way a Soil Health Living Lab manages its operations, including the experience of the SHLL in running Living Lab projects, the human resources, and the necessary equipment and infrastructure of the SHLL.

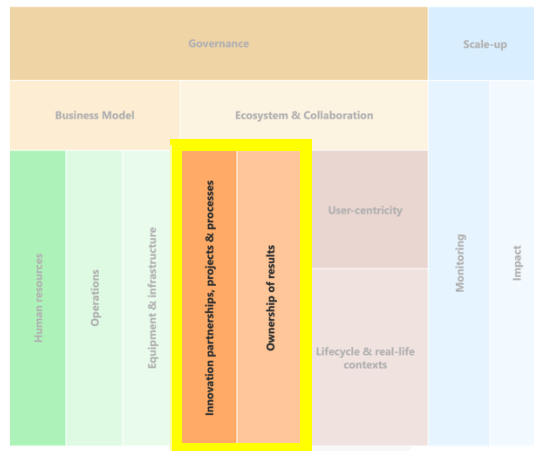
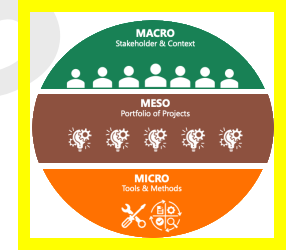


- **Human Resources**, including the implementation of needed internal roles and responsibilities within the operational Living Lab team
- **Operations**, including time spent on completed projects and/or activities and the use of participatory tools and methods
- **Equipment and infrastructure**, the availability of infrastructure and equipment to the operational Living lab team

SOILL M&E framework: **Openness**



This chapter investigates the openness of your Soil Health Living Lab by focusing on the partnerships, processes, feedback, and intellectual property (IP) protection.

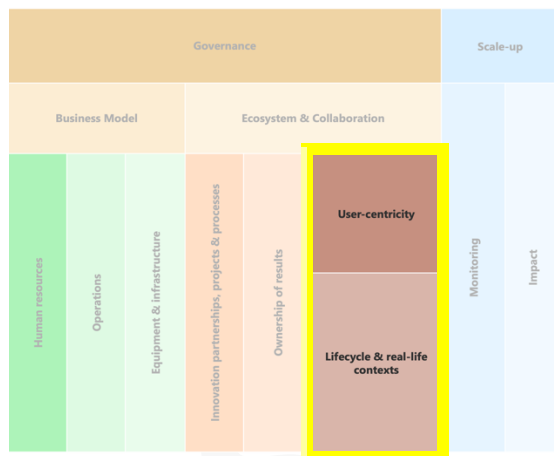
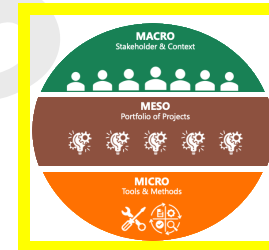


- **Innovation partnerships, projects, and processes:** implemented measures by the SHLL concerning needed processes to safeguard a reflective, iterative & ethical approach to transdisciplinary collaboration.
- **Ownership of results:** implemented measures by the SHLL concerning needed rules, processes, and user agreements related to the use, sharing and licensing of data & IP of collaborative results.

SOILL M&E framework: **Users & reality**

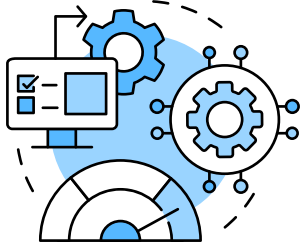


This chapter considers the ways in which collaboration with users takes place and the levels of engagement and participation, by focusing on the implementation of an iterative Living Lab process in real life contexts.

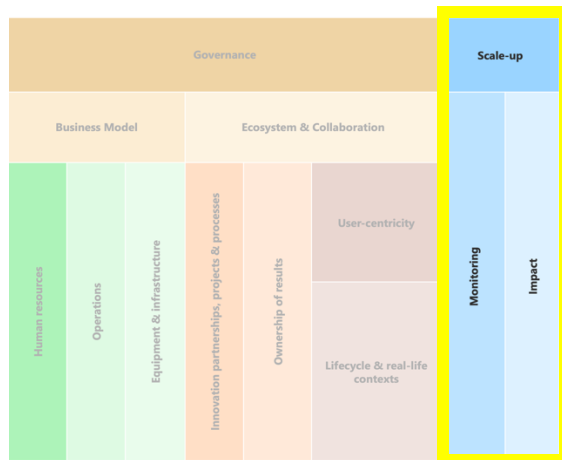
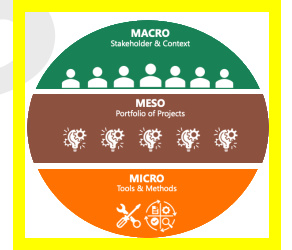


- **User-centricity**, including active involvement of a balanced and diverse group of stakeholders as end-users, and the influence and involvement of end-users in the different phases of a Living lab innovation cycle.
- **Lifecycle & real-life contexts**, the use of real-life contexts of end-users in the different phases of a Living Lab innovation cycle

SOILL M&E framework: **Impact & monitoring**



This chapter considers the ways in which collaboration with users takes place and the levels of engagement and participation, by focusing on the implementation of an iterative Living Lab process in real life contexts.



- **Impact**, including progress on soil health, relevant knowledge materials developed by the SHLL, citizen/public awareness/literacy concerning the value/importance of soil and soil protection, and co-developed economic models fit to circular and solidary economies.
- **Scale-up**, products/solutions/services developed and tested by the SHLL (and demonstrated in LHs), able to be scaled-up.
- **Monitoring**, including the soil monitoring framework that allows to monitor the impact on soil health, the completeness & frequency of internal self-monitoring processes and impact assessments, and the monitoring of users/stakeholder's satisfaction.

SOILL monitoring & evaluation tools

(how)



The M&E tools



REPORTING TOOLS

- Quantitative self-assessment questionnaire (online – SOILL Hub)
- Qualitative questionnaire (word – docx)



GUIDANCE TOOLS

- SOILL M&E guidelines (PDF)
- Guided questionnaires (PDF)
- IT guidelines (PDF/online)

The M&E reporting tools



QUANTITATIVE

Online on SOILL Hub

47 questions

Closed questions

Immediate downloadable
report

VS



QUALITATIVE

Offline on Word/PDF

14 questions

Open-ended questions
(1 page) & support evidences

Report after full SOILL
evaluation

The Self-Assessment (quantitative) tool



The Self-Assessment tool

Self assesment tool

Settings New assesment

Create a new assesment

Introduction

Welcome to the SOILL-Startup self-assessment tool, designed to help you **monitor the maturity of your Soil Health Living Lab**.

The tool includes **five chapters**, including a general information one, and **13 criteria** designed to assess the status and stability of a Soil Health Living Labs.

This is a holistic tool which needs to be used in its entirety, but the results will provide insights about these five chapters of your Soil Health living Lab. These insights support the further development of your Living Lab via the capacity building activities organized by SOILL-Startup.

Monitoring on a recurrent base in a structured way will help you to track the progress and growth of your Soil Health Living Lab.

Figure 1: Five chapters of the SOILL monitoring framework in relation to the 3-layered model of a Living Lab (Schuurman, 2015). Mandatory questions are indicated with a red asterisk (*).

Informed consent and data processing

SOILL-Startup self-assessment tool

Before proceeding, please read the following information carefully. By completing this self-assessment questionnaire, you are providing your informed consent to the collection and processing of your data as described below.

Who is Responsible for Your Data?

The European Network of Living Labs (ENoLL) is the data controller responsible for securely managing your personal data. Data will be processed in compliance with the General Data Protection Regulation (GDPR, Regulation (EU) 2016/679) and applicable national legislation on data protection. More information on the applicable privacy policy of the SOILL Hub is available at: [Privacy Policy](#).

Why and How Will Your Data Be Used?

- Purpose of data collection: Your responses will be used to assess the progress and trends of your Soil Health Living Lab.
- Anonymous and Aggregated Reporting: Data will be shared anonymously and in aggregate form in reports to the Mission Soil initiative, as well as in a public report summarizing network trends and recommendations.
- Compliance with Funding Authority Requests: If required by the funding authority, full data (including identifiable information) may be shared with the European Commission and/or Research Executive Agency, following relevant legal and privacy safeguards.
- Restricted Access to Identifiable Data within SOILL-Startup: Access to identifiable data will be strictly limited to designated SOILL-Startup partners appointed to monitor the progress of your Soil Health Living Lab. These individuals will only be granted access after undergoing a conflict-of-interest review.
- Controlled Access within Soil Health Living Lab: Identifiable data may also be accessible to specific staff and partners within your Soil Health Living Lab. Such access will be granted at the discretion of the Living Lab administrator, who will assign and monitor access permissions based on defined roles and project needs to ensure data is handled ethically and securely.

How is Your Privacy Protected?

Your data will be:

1. Processed solely for the purposes described above, based on GDPR Article 6(1)(b).
2. Handled confidentially with measures to minimize data access to only what is necessary.
3. Stored securely and deleted once it is no longer required for these purposes.

Your Rights

You have the right to:

- Access, correct, or delete your data.
- Restrict or object to the processing of your data.
- Request data portability.

To exercise these rights, or if you have any questions about this survey or how your data is managed, you can contact us at soillcoordinator@enoll.org.

☐ Do you agree with this privacy statement?

START MY ASSESMENT

The Self-Assessment tool

Introduction &
guideline to chapter

Guidance to
question(s)

General information
Your Soil Health Living Lab and yourself

Strategy
Long-term & strategic aspects of a SHLL

Operations
The way your SHLL manages its operations

Openness
Partnerships, processes, feedback, and IP

Users & Reality
Collaboration with users and engagement

Impact & monitoring
How the SHLL monitoring progress, and create impacts

Results
See the results of the SHLL

This section addresses long-term & strategic aspects of a Soil Health Living Lab, such as multi-stakeholder participation, the orchestration role of the Soil Health Living Lab, the business model approach & stability of the Soil Health Living Lab.

Three criteria are used to assess this part:

Governance, including:

- Completeness of a multi-actor strategic roadmap for the Soil Health Lab (SMART goals, partner contributions & responsibilities,

The governance and partnership structure of a Soil Health Living Lab is crucial for its long-term success. So, the governance structure relates to the macro-level of the SHLL and therefore exceeds the scope of a (funded) Living Lab project (e.g. GOV4ALL, LIVINGSOILL...).

A living lab typically involves multiple stakeholders working together in a collaborative, interdisciplinary framework. Stakeholders actively participating in the governance structure of a SHLL are called the partners of the SHLL.

A governance model defines how these partners interact, contribute and make decisions

A **strategic roadmap for a Soil Health Living Lab** serves as a guiding long-term framework document for the partners of the governance structure that outlines the

Which types of stakeholder groups are actively involved in:

- The development of the shared vision and mission of the Soil Health Living Lab? Stakeholders are actively involved in the mission/vision if they actively participated in the creation of it (e.g., co-creation workshops, community of practice meeting...)
- The governance structure of the Soil Health Living Lab? Stakeholders are actively involved in the governance structure if they are actively participating in the strategic decision-making processes (e.g., management meetings, advisory board...)
- A signed collaboration agreement? Signed collaboration agreements describe all aspects (objectives, contributions, responsibilities) of a long-term collaboration between two or more organizations part of the governance structure of the Living Lab

	Not involved	Involved in the vision/mission	Involved in the governance structure	A collaboration agreement is signed with them
Kindergartens	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Primary, secondary and other schools (e.g. agricultural, spatial planning...)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Navigation bar
(chapters)

Questions

The Self-Assessment tool – navigation bar

5 SOILL M& chapters

The screenshot shows the navigation bar of the SOILL Self-Assessment tool. The 'Strategy' chapter is highlighted with an orange box. Below the navigation bar, the content for the 'Strategy' chapter is displayed, including a description, criteria for assessment, and a table for stakeholder involvement.

General information
Your Soil Health Living Lab and yourself

Strategy
Long-term & strategic aspects of a SHLL

Operations
The way your SHLL manages its operations

Openness
Partnerships, processes, feedback, and IP

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A governance model defines how these partners interact, contribute and make decisions

A **strategic roadmap for a Soil Health Living Lab** serves as a guiding long-term framework document for the partners of the governance structure that outlines the long-term strategies of the SHLL, the envisioned

Which types of stakeholder groups are actively involved in:

- The development of the shared vision and mission of the Soil Health Living Lab? Stakeholders are actively involved in the mission/vision if they actively participated in the creation of it (e.g., co-creation workshops, community of practice meeting...)
- The governance structure of the Soil Health Living Lab? Stakeholders are actively involved in the governance structure if they are actively participating in the strategic decision-making processes (e.g., management meetings, advisory board...)
- A signed collaboration agreement? Signed collaboration agreements describe all aspects (objectives, contributions, responsibilities) of a long-term collaboration between two or more organizations part of the governance structure of the Living Lab

	Not involved	Involved in the vision/mission	Involved in the governance structure	A collaboration agreement is signed with them
Kindergartens	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Primary, secondary and other schools (e.g. agricultural, spatial planning...)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The Self-Assessment Form– navigation bar

Chapter in
compilation

Completed
chapters

The screenshot shows the navigation bar of the Self-Assessment Form. The first two chapters, 'General information' and 'Strategy', are circled in orange and marked as completed with green checkmarks. The remaining chapters are marked with empty circles. Below the navigation bar, the content for the 'Strategy' chapter is displayed. It includes a description of the section's focus on long-term and strategic aspects, a list of three criteria for assessment (with 'Governance' highlighted), and a table for stakeholder involvement.

	General information Your Soil Health Living Lab and yourself	Strategy Long-term & strategic aspects of a SHLL	Operations The way your SHLL manages its operations	Openness Partnerships, processes, feedback, and IP	Users & Reality Collaboration with users and engagement	Impact & monitoring How the SHLL monitoring progress, and create impacts	Results See the results of the SHLL															
<p>This section addresses long-term & strategic aspects of a Soil Health Living Lab, such as multi-stakeholder participation, the orchestration role of the Soil Health Living Lab, the business model approach & stability of the Soil Health Living Lab.</p> <p>Three criteria are used to assess this part:</p> <p>Governance, including:</p> <ul style="list-style-type: none">Completeness of a multi-actor strategic roadmap for the Soil Health Lab (SMART goals, partner contributions & responsibilities, <p>The governance and partnership structure of a Soil Health Living Lab is crucial for its long-term success. So, the governance structure relates to the macro-level of the SHLL and therefore exceeds the scope of a (funded) Living Lab project (e.g. GOV4ALL, LIVINGSOILL...).</p> <p>A living lab typically involves multiple stakeholders working together in a collaborative, interdisciplinary framework. Stakeholders actively participating in the governance structure of a SHLL are called the partners of the SHLL.</p> <p>A governance model defines how these partners interact, contribute and make decisions</p> <p>A strategic roadmap for a Soil Health Living Lab serves as a guiding long-term framework document for the partners of the governance structure that outlines the long-term strategies of the SHLL, the envisioned</p> <p>Which types of stakeholder groups are actively involved in:</p> <ul style="list-style-type: none">The development of the shared vision and mission of the Soil Health Living Lab? Stakeholders are actively involved in the mission/vision if they actively participated in the creation of it (e.g., co-creation workshops, community of practice meeting...)The governance structure of the Soil Health Living Lab? Stakeholders are actively involved in the governance structure if they are actively participating in the strategic decision-making processes (e.g., management meetings, advisory board...)A signed collaboration agreement? Signed collaboration agreements describe all aspects (objectives, contributions, responsibilities) of a long-term collaboration between two or more organizations part of the governance structure of the Living Lab <table border="1"><thead><tr><th></th><th>Not involved</th><th>Involved in the vision/mission</th><th>Involved in the governance structure</th><th>A collaboration agreement is signed with them</th></tr></thead><tbody><tr><td>Kindergartens</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Primary, secondary and other schools (e.g. agricultural, spatial planning...)</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></tbody></table>									Not involved	Involved in the vision/mission	Involved in the governance structure	A collaboration agreement is signed with them	Kindergartens	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Primary, secondary and other schools (e.g. agricultural, spatial planning...)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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The Self-Assessment Form– Guiding sections

Introduction & guideline to chapter

General information Your Soil Health Living Lab and yourself

Strategy Long-term & strategic aspects of a SHLL

Operations The way your SHLL manages its operations

Openness Partnerships, processes, feedback, and IP

Users & Reality Collaboration with users and engagement

Impact & monitoring How the SHLL monitoring progress, and create impacts

Results See the results of the SHLL

This section addresses long-term & strategic aspects of a Soil Health Living Lab, such as multi-stakeholder participation, the orchestration role of the Soil Health Living Lab, the business model approach & stability of the Soil Health Living Lab.

Three criteria are used to assess this part:

Governance, including:

- Completeness of a multi-actor strategic roadmap for the **Soil Health** Lab (SMART goals, partner contributions & responsibilities).

The governance and partnership structure of a Soil Health Living Lab is crucial for its long-term success. So, the governance structure relates to the macro-level of the SHLL and therefore exceeds the scope of a (funded) Living Lab project (e.g. GOV4ALL, LIVINGSOILL...).

A living lab typically involves multiple stakeholders working together in a collaborative, interdisciplinary framework. Stakeholders actively participating in the governance structure of a SHLL are called the partners of the SHLL.

A governance model defines how these partners interact, contribute and make decisions

A **strategic roadmap for a Soil Health Living Lab** serves as a guiding long-term framework document for the partners of the governance structure that outlines the long-term strategies of the SHLL, the envisioned

Which types of stakeholder groups are actively involved in:

- The development of the shared vision and mission of the Soil Health Living Lab? Stakeholders are actively involved in the mission/vision if they actively participated in the creation of it (e.g., co-creation workshops, community of practice meeting...)
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- Completeness of a multi-actor strategic roadmap for the Soil Health Living Lab (SMART goals, partner contributions & responsibilities, decision-making processes & frequency),
- Active involvement of a balanced and diverse group of stakeholders in the development of the vision & mission of the Soil Health Living Lab,
- Participation of a balanced and diverse group of stakeholders in the governance structure of the Soil Health Living Lab, and
- Signed collaboration agreements for co-innovation within the Soil Health Living Lab governance structure beyond the scope of the project(s) supporting the Living Lab set-up

Business Model, including:

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Ecosystem and collaboration including:

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- Communication & results sharing to keep internal and external stakeholders informed & aligned, and
- Customers of the Soil Health Living Lab (organizations, governments who are directly paying the Soil Health Living Lab to deliver services/activities)

©SO

General information
Your Soil Health Living Lab and yourself

Strategy
Long-term & strategic aspects of a SHLL

Operations
The way your SHLL manages its operations

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A **business model approach** of a Soil Health Living Lab describes the way and the key actors involved. A business model approach describes how the Soil Health Living Lab offers solutions to solve problems of their stakeholder groups.

	Not involved	Involved in the vision/mission	Involved in the governance structure	A collaboration agreement is signed with them
Kindergartens	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Primary, secondary and other schools (e.g. agricultural, spatial planning...)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

How frequently does the managing group/governance team of the Soil Health Living Lab organize meetings to make strategic decisions or to monitor the progress of the Soil Health Living Lab?

Please select

A **business model approach** of a Soil Health Living Lab describes the way and the key activities via which the Soil Health Living Lab offers solutions and services to solve problems of their stakeholders, customers, and users.

Which of the following elements are currently present in the business model approach of your Soil Health Living Lab?

☐ Problems & solutions (solutions and services offered by the SHLL to solve clearly defined problems of stakeholders, users & customers)
 ☐ Activities & resources (overview of activities performed by the SHLL, e.g., co-creation)

The Self-Assessment Form: questions

General information
Your Soil Health Living Lab and yourself

Strategy
Long-term & strategic aspects of a SHLL

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Kindergartens	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Primary, secondary and other schools (e.g. agricultural, spatial planning...)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The Self-Assessment Form: questions

How frequently does the managing group/governance team of the Soil Health Living Lab organizes meetings to make strategic decisions or to monitor the progress of the Soil Health Living Lab?

✓ Please select

☐ <1x/year

☒ 1x/year

☐ 2x/year

Looking at the overall finances of your Soil Health Living Lab, revenues are provided by different funding streams?

☐ Public funding (besides grants or customers)

☐ Grants (project) funding

☐ Private funding (besides grants or customers)

☐ Revenues from own Living Lab services from paying customers

☐ Our Soil Health Living Lab currently doesn't have any type of revenues

Other revenues, namely

Which different types of stakeholders from your ecosystem are involved in your Soil Health Living Lab projects and/or activities over the last 12 months?

Academia

Kindergartens Primary, secondary and other schools (e.g. agricultural, spatial planning...) Universities and/or university departments (e.g. agriculture) Research institutions Academic incubators Technology Transfer Centres Vocational training centers Science communication centers Students Other

Public sector

Local authorities District and regional councils Ministries (Environment) agencies EU institutions International networks (e.g. AKIS, EIP-AGRI) CAP Network operational groups Advisors (e.g. soil, farm...) and or advisory centres (e.g. agricultural, geotechnical...) Public research organizations Spatial planners Other

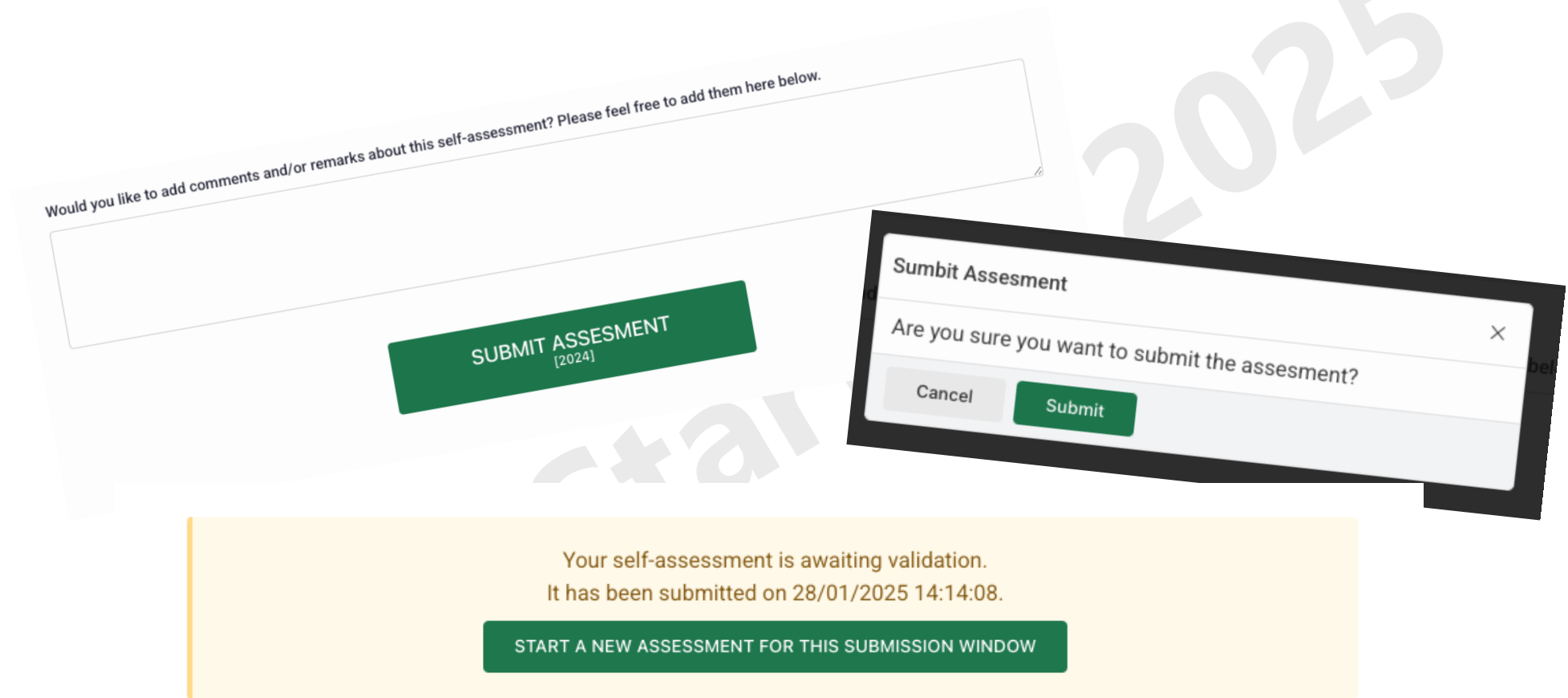
	Not involved	Involved in the vision/mission	Involved in the governance structure	A collaboration agreement is signed with them	Planned for	Currently missing
Kindergartens	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Primary, secondary and other schools (e.g. agricultural, spatial planning...)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Universities and/or university departments (e.g. agriculture)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vocational training centers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SMART goals and objectives (description of long-term strategies, envisioned projects, expected outcomes)

Partner contributions (description of how each of the actors involved in the governance of SHLL (partner) is contributing, e.g. financial, personnel, representation, in-kind)

What types of participatory tools and methods are used by your Soil Health Living Lab (e.g., focus groups, interviews, brainstorming...)?

The Self-Assessment Form: submission



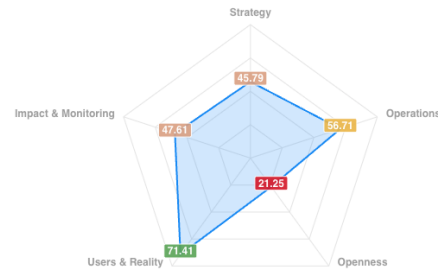
The image shows a sequence of three UI elements from the SOILL Startup self-assessment submission process:

- Form:** A light gray form with a text area containing the prompt: "Would you like to add comments and/or remarks about this self-assessment? Please feel free to add them here below." Below the text area is a green button labeled "SUBMIT ASSESMENT [2024]".
- Modal:** A black-bordered modal window titled "Sumbit Assesment" (sic) with a close button (X). It contains the question "Are you sure you want to submit the assesment?" (sic) and two buttons: "Cancel" and "Submit".
- Confirmation:** A yellow rectangular box with the text: "Your self-assessment is awaiting validation. It has been submitted on 28/01/2025 14:14:08." Below this text is a green button labeled "START A NEW ASSESSMENT FOR THIS SUBMISSION WINDOW".

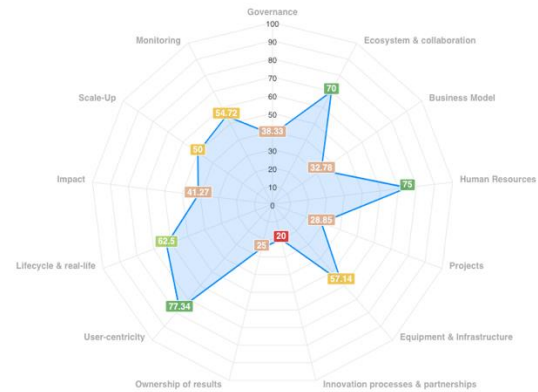
The Self-Assessment Form: results

View the results of the Soil Health Living Lab self-assessment 2024

Self-assessment Living Lab Chapters



Self-assessment Living Lab Criteria



Would you like to add comments and/or remarks about this self-assessment? Please feel free to add them here below.

Download PDF



Criteria



Which organization(s) is in the lead of your Soil Health Living Lab?
xx

Is your Living Lab funded by one of these projects?
- None of the above

Which type(s) of land use is your Soil Health Living Lab covering?
- Agriculture
- Forestry
- Industrial
- Urban
- Natural or semi-natural

Which objectives of 'A Soil deal for Europe' are addressed by your Soil Health Living Lab?
- Improve soil literacy in society

How many sites are there in your Soil Health Living Lab and how many could be potentially a lighthouse (LH)?
Indicate according to the land use type(s) within your Soil Health Living Lab.

If you don't know the number of sites and/or lighthouses yet we ask you to answer "0"

- Agriculture:
Number of sites in your Soil Health Living Lab: 0
Number of potential Lighthouses: 0

- Forestry:
Number of sites in your Soil Health Living Lab: 0
Number of potential Lighthouses: 0

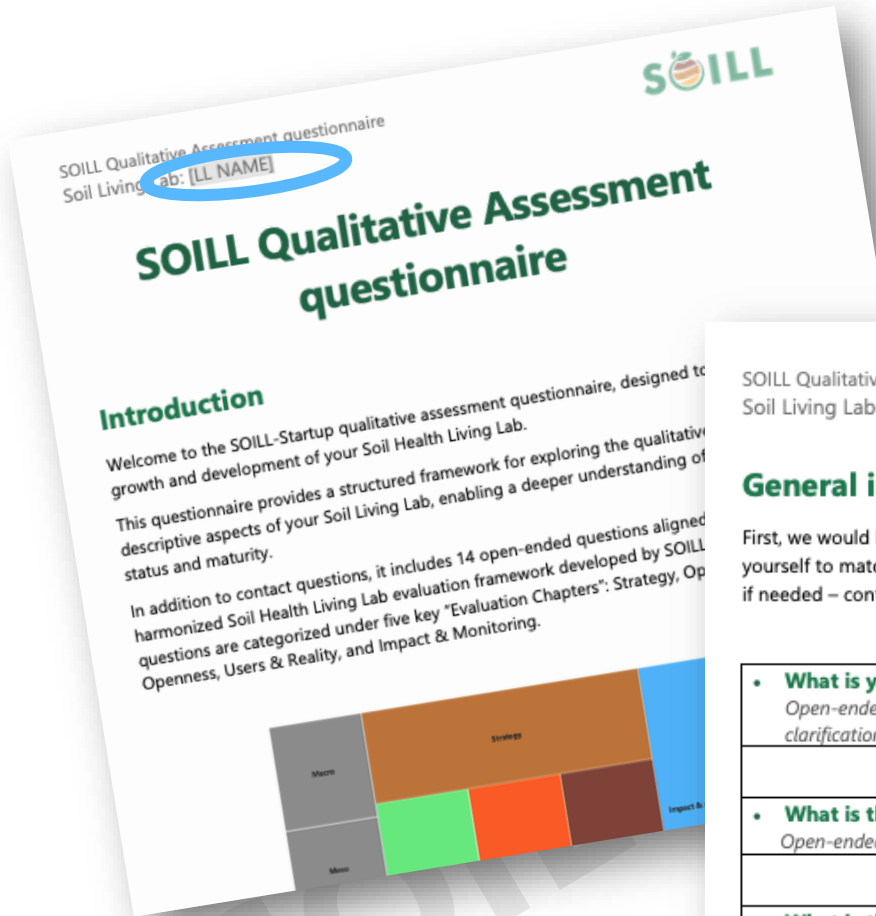
- Industrial:
Number of sites in your Soil Health Living Lab: 0
Number of potential Lighthouses: 0

- Urban:
Number of sites in your Soil Health Living Lab: 0
Number of potential Lighthouses: 0

- Natural or semi-natural:
Number of sites in your Soil Health Living Lab: 0
Number of potential Lighthouses: 0

Which of the below parameters will your Soil Health Living Lab (planning to) monitor?
- Salinization
- Phosphorus excess

The Qualitative Assessment questionnaire



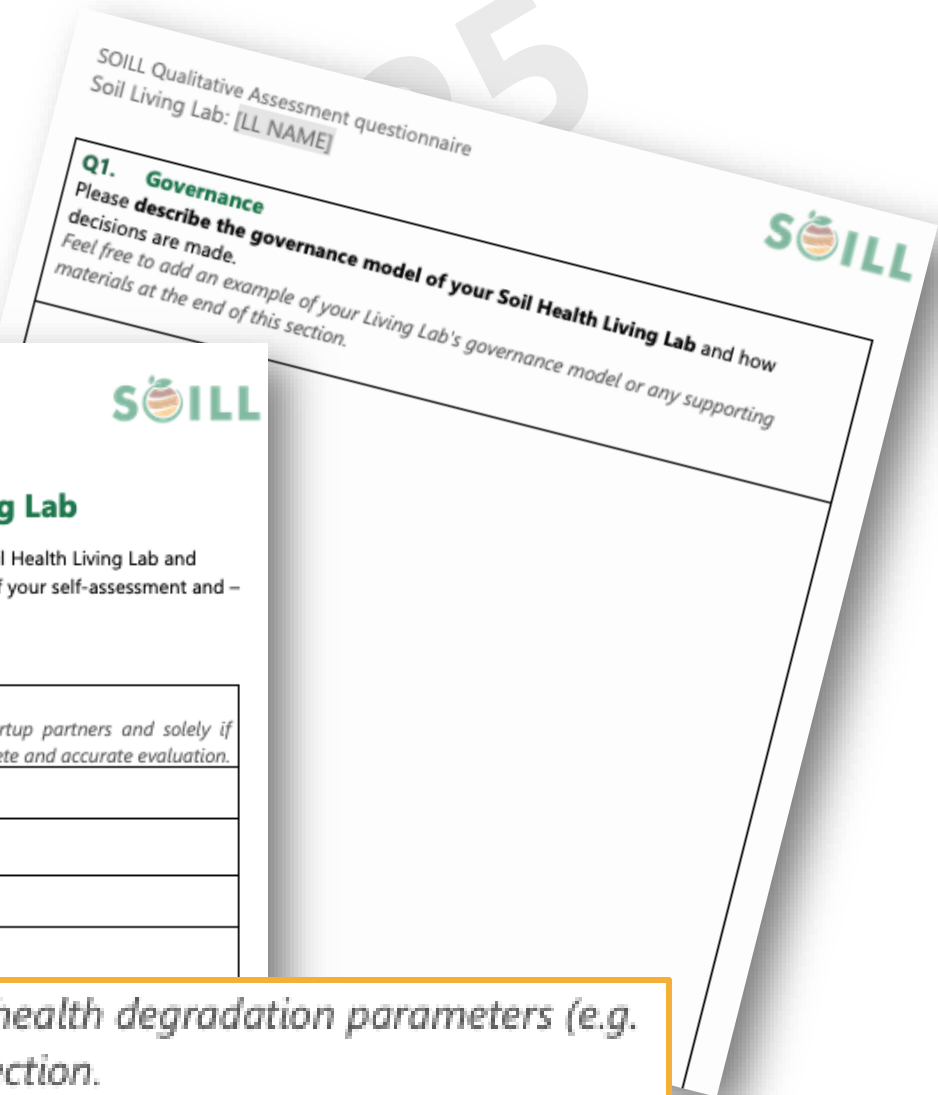
SOILL Qualitative Assessment questionnaire
Soil Living Lab: [LL NAME]

General information Soil Health Living Lab

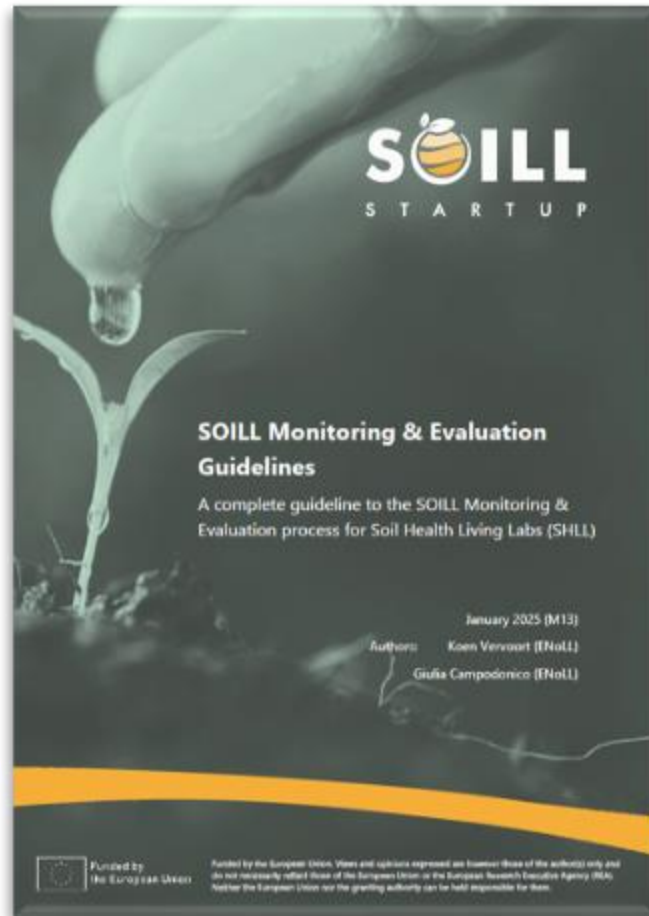
First, we would like to ask some general questions about your Soil Health Living Lab and yourself to match this qualitative questionnaire with the results of your self-assessment and – if needed – contact you for clarifications.

- **What is your email address? ***
Open-ended. This contact will be used solely by SOILL-Startup partners and solely if clarifications on the provided answers are needed for a complete and accurate evaluation.
- **What is the name of your organization? ***
Open-ended
- **What is the name of your Soil Health Living Lab? ***
Open-ended

Feel free to add supporting materials related to the soil health degradation parameters (e.g. monitoring plan/sampling schemes) at the end of this section.



The M&E guidance tools



- SOILL M&E guidelines (PDF)
- Guided questionnaires (PDF)
- IT guidelines (PDF/online)



The SOILL Monitoring & Evaluation Guidelines



- Soil Health Living Labs (soil health / LLs)
- SOILL monitoring & evaluation framework
- SOILL M&E process & timeline
- SOILL M&E reporting tools
 - Self-assessment questionnaire
 - Qualitative assessment questionnaire
- SOILL M&E how to
- SOILL M&E data management & access
- SOILL Support

The SOILL M&E guided questionnaires

Summary & guidance

This document presents all the questions of the self-assessment questionnaire developed in SOILL-Startup to monitor the progress of Soil Health Living Labs (SHLL) of the European Mission "A Soil Deal for Europe" (Mission Soil).

This self-assessment questionnaire also includes **multiple information blocks to create a better understanding** of the questionnaire chapter – highlighted in **dark green bold-lined boxes** – and of different criteria included in each chapter – highlighted in **orange lined boxes**. Alongside, question-specific subtitles are highlighted in **italics grey text**.

A separate set of questions is developed to monitor the progress of Soil Health Lighthouses (SHLH) and will be made available over 2025.

Reading this document with all the questions in advance will help SHLLs to create comprehensive understanding of the questions included in the self-assessment tool and gather all necessary information before beginning the online completion process.

To prepare for the completion of this self-assessment questionnaire, the operational team (Living Lab manager, researcher, panel manager, project manager, pilot or site manager) should **organize internal discussions to define the correct answers** to each question.

The online submission of the self-assessment questionnaire should be done by the manager to make sure the given answers are agreed upon within the Soil Health



SOILL self-assessment questionnaire

Strategy

This section addresses long-term & strategic aspects of a Soil Health Living Lab, such as multi-stakeholder participation, the orchestration role of the Soil Health Living Lab, the business model approach & stability of the Soil Health Living Lab.

Three criteria are used to assess this part:

Governance, including:

- Completeness of a multi-actor strategic roadmap for the Soil Health Living Lab (SMART goals, partner contribution & responsibilities, decision-making processes & frequency), the vision & mission of the Soil Health Living Lab, and
- Participation of a balanced and diverse group of stakeholders in the development of the Soil Health Living Lab, and
- Signed collaboration agreements for co-innovation within the Soil Health Living Lab governance structure beyond the scope of the project(s) supporting the Living Lab set-up

Business Model, including:

- Completeness of the described business model approach to make the Soil Health Living Lab sustainable,
- Number of services offered by the Soil Health Living Lab covering (all) separate phases of the Living Lab innovation cycles, and
- Level of financial sustainability of the Soil Health Living Lab based on a balanced and diversified set of findings and revenue streams.

Ecosystem and collaboration including:

- Regional, national, and international collaborations beyond the scope of an individual Living Lab project,
- Communication & results sharing to keep internal and external stakeholders informed & aligned, and
- Customers of the Soil Health Living Lab (organizations, governments who are directly paying the Soil Health Living Lab to deliver services/activities)

Governance

The governance and partnership structure of a Soil Health Living Lab is crucial for its long-term success. So, the governance structure relates to the macro-level of the SHLL and therefore exceeds the scope of a (funded) Living Lab project (e.g. GOV4ALL, LIVINGSOILL).

A living lab typically involves multiple stakeholders working together in a collaborative, interdisciplinary framework. Stakeholders actively participating in the governance structure of a SHLL are called the partners of the SHLL.

A governance model defines how these partners interact, contribute and make decisions.

17. Which types of stakeholder groups are actively involved in:

- the development of the shared vision and mission of the Soil Health Living Lab? Stakeholders are actively involved in the mission/vision if they actively participated in the creation of it (e.g., co-creation workshops, community of practice meetings.)
- the governance structure of the Soil Health Living Lab? Stakeholders are actively involved in the governance structure if they are actively participating in the strategic decision-making processes (e.g., management meetings, advisory board.)
- a signed collaboration agreement? Signed collaboration agreements describe all aspects (objectives, contributions, responsibilities) of a long-term collaboration between two or more organizations part of the governance structure of the Living Lab.

This question shows all stakeholder groups which are present in your Living Lab ecosystem based on the input you provided in the earlier stakeholder question. Probably, not all these stakeholder groups are actively involved in your Soil Health Living Lab, and/or the governance structure of your SHLL. Next to this we want to know if a long-term collaboration agreement is signed with them. Therefore, for each of the stakeholder groups below, multiple answers are possible.

Class-ended, multiple-answer grid

	Not involved	Involved in the vision/mission	Involved in the governance structure	A collaboration agreement is signed with them
Carried forward selected groups of stakeholders from question 16: Which different types of stakeholder groups are present in the ecosystem of your Soil Health Living Lab?				

SOILL self-assessment questionnaire

Strategy

This section addresses long-term & strategic aspects of a Soil Health Living Lab, such as the governance of the Living Lab, the orchestration role of the Soil Health Living Lab, and the business model approach & stability of the Soil Health Living Lab.

Governance

The governance and partnership structure of a Soil Health Living Lab is crucial for its long-term success. So, the governance structure relates to the macro-level of the SHLL and therefore exceeds the scope of a (funded) Living Lab project (e.g. GOV4ALL, LIVINGSOILL).

A living lab typically involves multiple stakeholders working together in a collaborative, interdisciplinary framework. Stakeholders actively participating in the governance structure of a SHLL are called the partners of the SHLL.

A governance model defines how these partners interact, contribute and make decisions.

Business model

A business model approach of a Soil Health Living Lab describes the way and the key activities on which the Soil Health Living Lab offers solutions and services to solve problems of their stakeholders, customers and users.

Next to this, it describes who are the main stakeholder target groups and how the Soil Health Living Lab finally, it determines the costs and revenues of the Soil Health Living Lab.

Collaboration & ecosystem

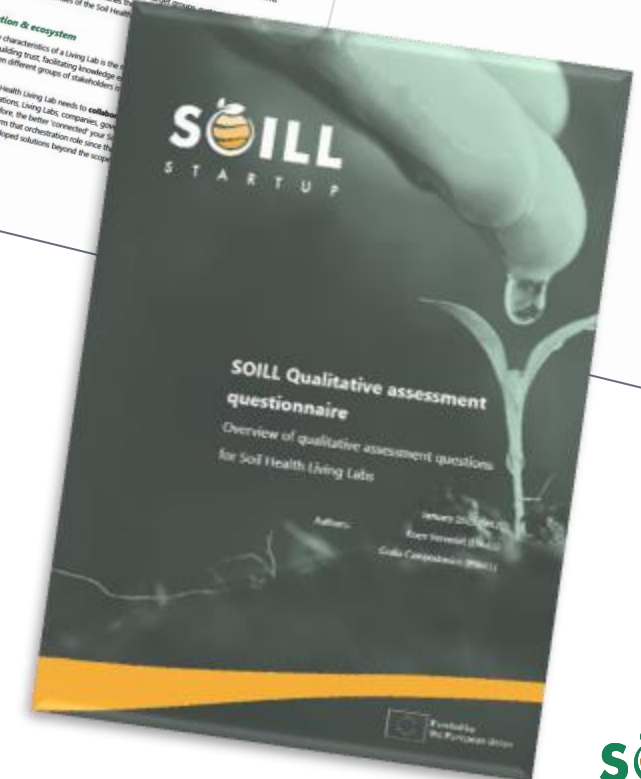
One of the key characteristics of a Living Lab is the collaboration between stakeholders. Building trust, facilitating knowledge exchange and co-creation can play a key role in the success of a Living Lab.

For this, your Soil Health Living Lab needs to collaborate with other organizations, Living Labs, companies, governments, and citizens. Stakeholders, therefore, the better connected your Soil Health Living Lab is, the better it will be able to perform that orchestration role since this enables it to scale-up developed solutions beyond the support of the funding organization.

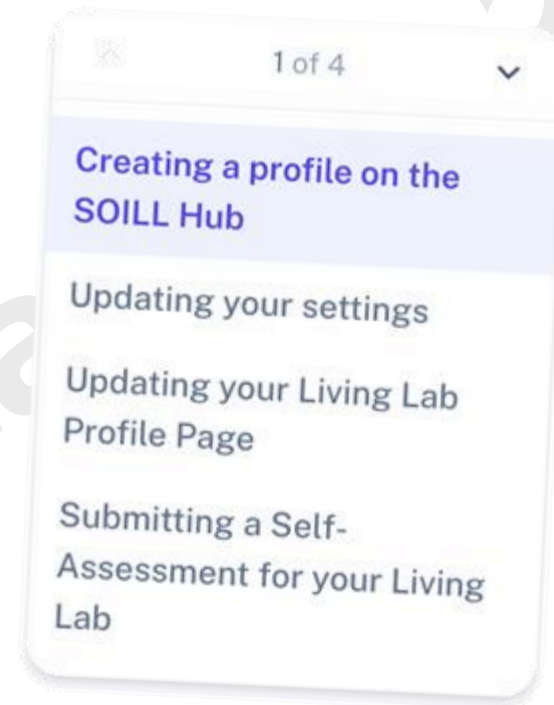
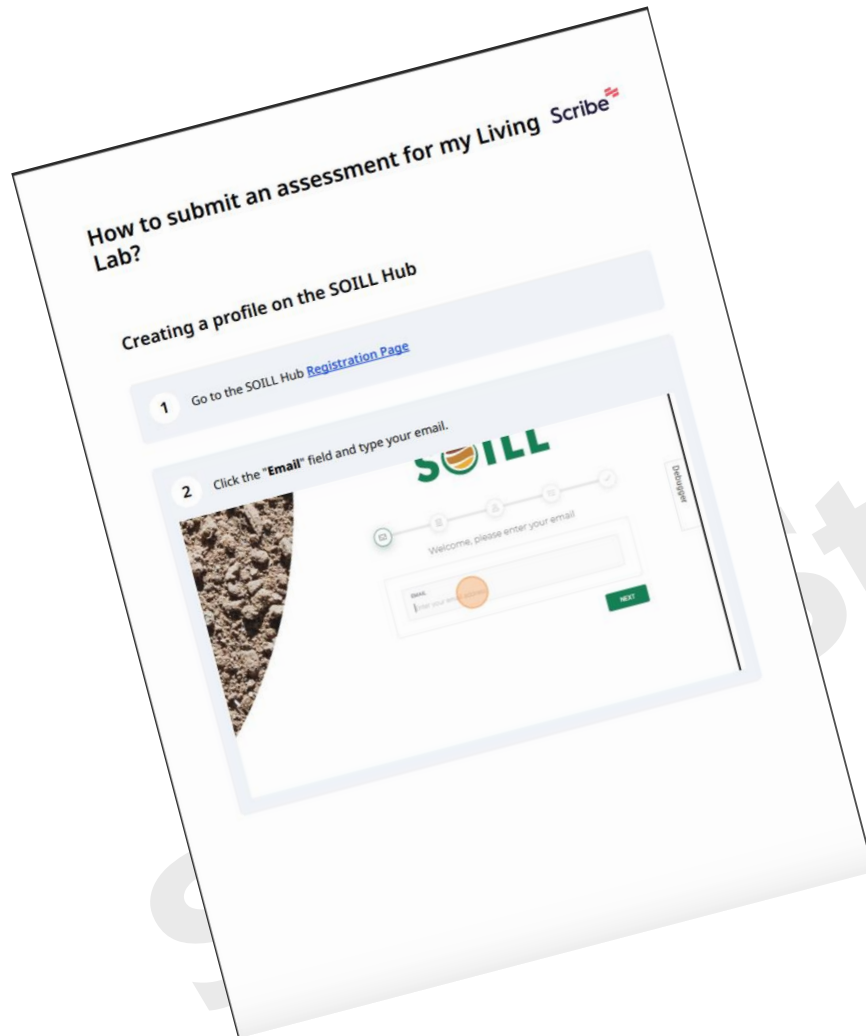
Q1. Governance

Please describe the governance model of your Soil Health Living Lab and how decisions are made.

Feel free to add an example of your Living Lab's governance model or any supporting materials at the end of this section.



The SOILL M&E IT how to



SOILL Monitoring & Evaluation process

(who & when)



Evaluation flow



LIVING LABS



1. Preparation

2. Submission



3. Evaluation

4. Report & recommendation





1. Preparation

WHAT

- Study guidelines & tools
- Get acquainted with the SOILL Hub
- Update and finalise the Mission Soil LL profile on Hub
- Assign access roles to LL on Hub
- Run internal meetings
- Prepare the answers
- Collect supporting material and visuals

WHO



LIVING LABS

- LIVING LAB
 - Manager
 - Key team & partners
 - Governance (operationally & strategically)
- PROJECT PARTNERS*
 - Coordinator / WPL
 - M&E partners
 - ...



2. Submission



DEADLINE:
MARCH 23rd

WHAT

- Complete the self assessment survey online
- Download the automated report
- Submit the qualitative assessment

WHO



LIVING LABS

- LIVING LAB
 - Manager
 - Other LL staff with LL admin roles on the Hub



3. Evaluation

WHAT

- Eligibility check
- AI-checker (qualitative assessment)
- Individual assessment (2 experts)
- If necessary: 3rd expert
- Consensus & evaluation

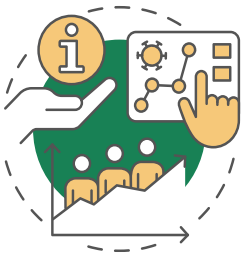
WHO



- ENOLL (Monitoring WP Lead/COI manager)
- ILVO (Monitoring Task Lead)
- Evaluating experts:
 - SOILL-Startup partners
 - No COI
 - Expertise LL/Soil
 - Extra confidentiality
 - Other countries than LL
 - English proficiency

CONFLICT OF INTEREST MANAGEMENT

- No involvement in LL projects at Organisation/Department level
- Will not apply to Mission Soil topics for LL projects
- Individual COI clear clearance of involved staff



4. Report & recommendations

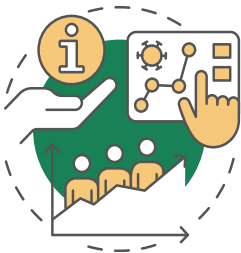
WHOM & WHAT

EC	Full report, including <ul style="list-style-type: none">• individual data (non-anonymised)• statistics• analysis & key takeaways
LL	Full individual report, including <ul style="list-style-type: none">• Self-assessment report• Customised individual feedback• Recommended actions/SOILL trainings
LLs (projects)	Aggregated anonymised report <ul style="list-style-type: none">• Statistics• Analysis & key takeaways• Recommended actions/SOILL trainings
Applicants	Recommendations: <ul style="list-style-type: none">• Trends• Dos & don'ts
Mission Soil community	Aggregated anonymised report/Recommendations <ul style="list-style-type: none">• Statistics• Analysis & key takeaways• highlights/key solutions• Recommended support

WHO

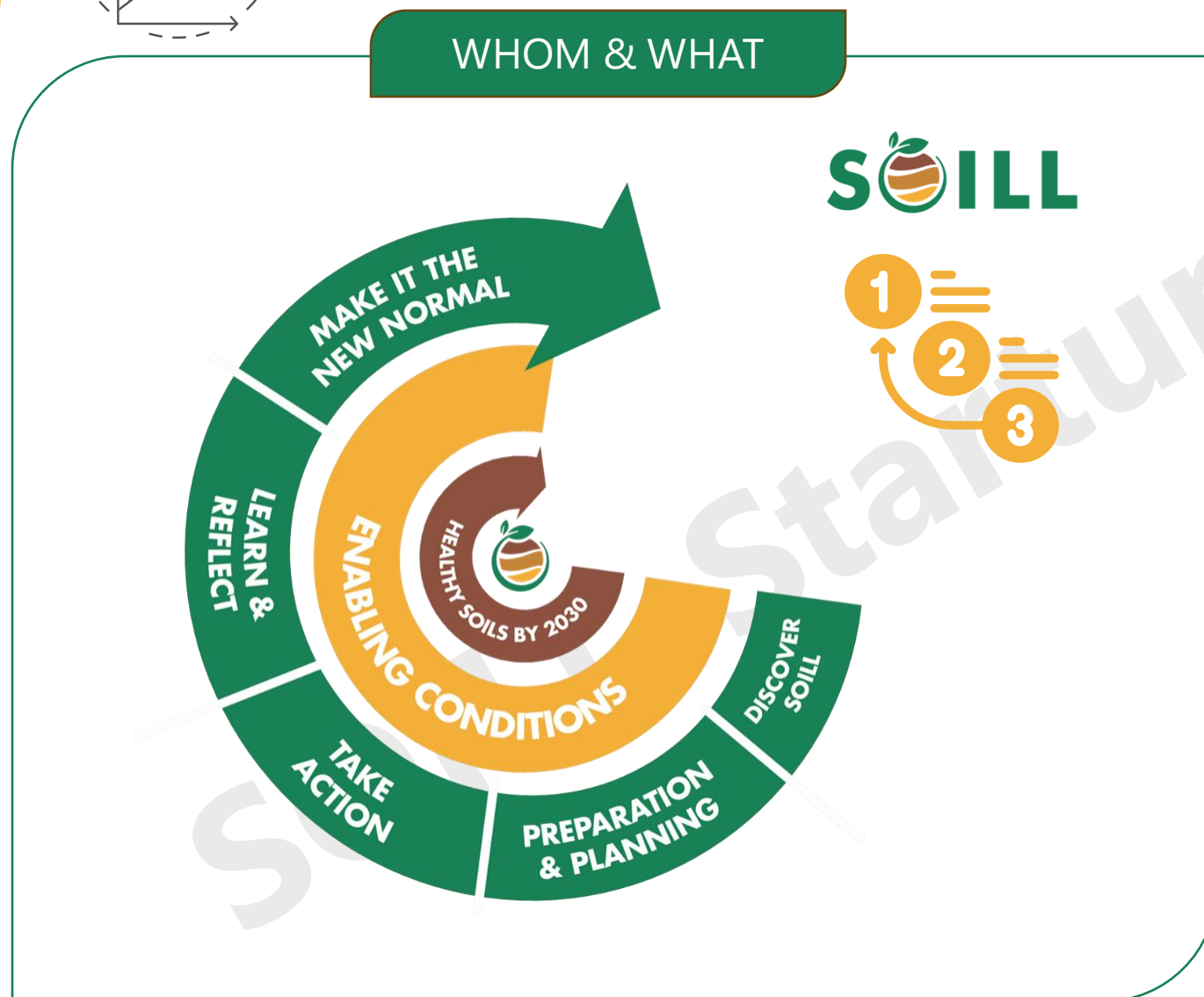


- ENoLL (Monitoring WP Lead/Recommendations Task lead)
- ILVO (Monitoring Task Lead)
- AU (Report Task Lead)
- Evaluating experts



4. Report & recommendations

WHOM & WHAT



WHO



- ENoLL (Monitoring WP Lead/Recommendations Task lead)
- ILVO (Monitoring Task Lead)
- AU (Report Task Lead)
- Evaluating experts

Evaluation timeline

2025 only!!!!



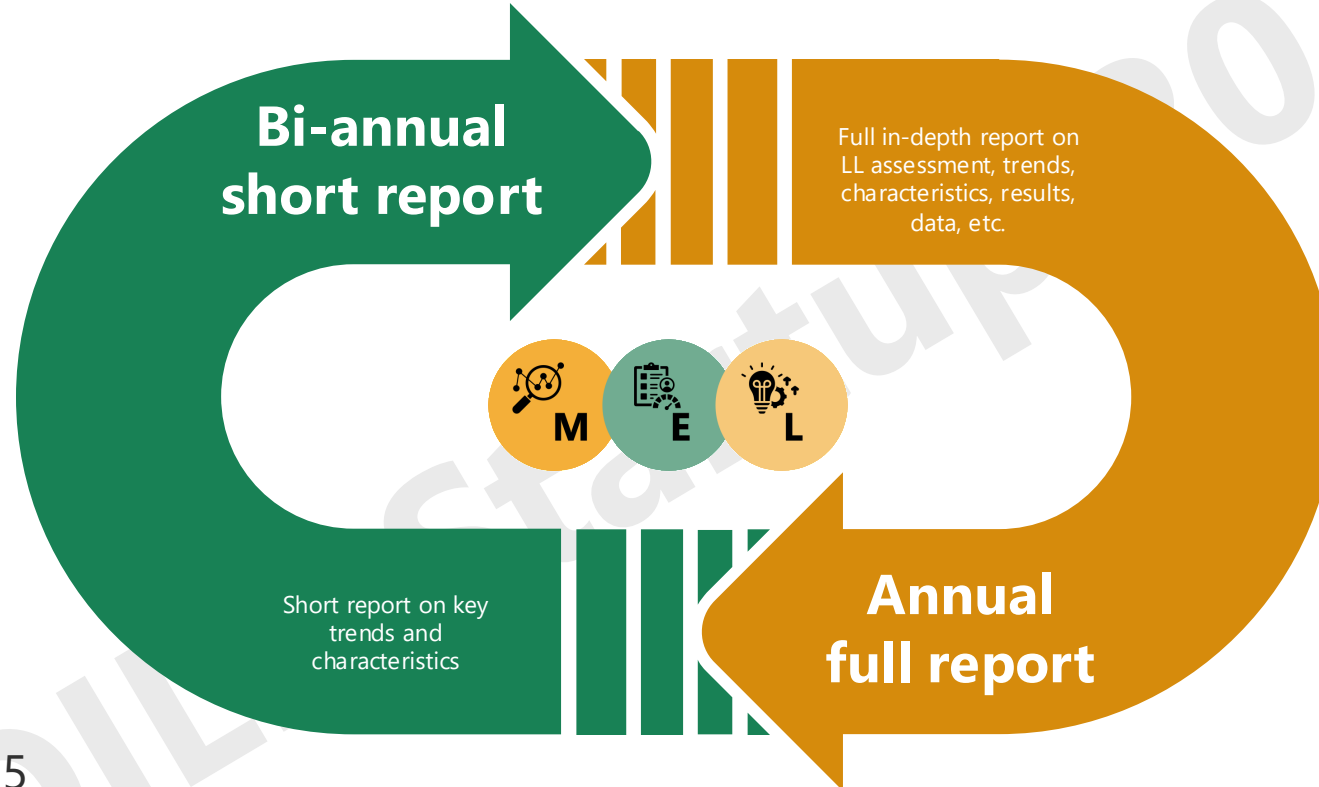
SOILL MEL rounds

LIVING LABS



Onboarding
questionnaire &
confirmation
emails

1. 31st January 2025
2. 31st December 2025
3. tbc



Full assessment
(quantitative &
qualitative)

23rd March 2025 &
May-June 2025

2026 tbc



SOILL support to monitoring & evaluation



Which other support?



SOILLmonitoring@enoll.org



SOILL M&E Q&A

24/02 – 07/03
1 session per project

Which other support?

SOILL Hub



SOILL IT Help centre



SOILL Helpdesk



IT HELP CENTER



SOILL SUPPORT
CENTER

COMING SOON

Which other support?



SOILL Training



Online training sessions for the Mission Soil Living Labs representatives

[Home](#)

Session 1: Foundations of Soil Health Living Labs

Date: 9th December 2024 | **Time:** 14:30 – 16:00 CET

Topic: Principles, Setup, and Tools

Session 2: Governance and Business Models for Soil Health Living Labs

Date: 10th December 2024 | **Time:** 10:00 – 11:30 CET

Topic: Setup Steps, Governance Structures, and Business Models

<https://www.soill2030.eu/online-training-sessions-mission-soil-living-labs-representatives>

Further reading/watching...

- **ENoLL Living Lab harmonized framework**
 - <https://enoll.org/methods/living-lab-harmonization-framework/>
 - Konstantinidis, E., Petsani, D., Santonen, T., Vervoort, K., Campodonico, G., Petronikolou, S., Desole, M., & Bamidis, P. (2024). D4.6 Living Lab Guidelines (final version). Zenodo. <https://doi.org/10.5281/zenodo.10975205>
- **ENoLL Living Lab harmonized evaluation framework**
 - Vervoort, K. ; Trousse, B. ; Desole, M. ; Bamidis, P. ; Konstantinidis, E. ; Santonen, T. ; Petsani, D. ; Servais, D. ; De Boer, D. ; Spagnoli, F. ; Onur, O. & Bertolin, J. (2022). Harmonizing the evaluation of living labs: a standardized evaluation framework. In Leandro Bitetti, Iain Bitran, Steffen Conn, Jessica Fishburn, Eelko Huizingh, Marko Torkkeli, Jialei Yang (Eds.) Proceedings of the XXXIII ISPIIM Innovation Conference. <https://doi.org/10.5281/zenodo.14626123>
 - Vervoort, K.; Konstantinidis, E.; Desole, M.; Onur, O.; Trousse, B.; Woodcock, A.; Garatea, J.; Petsani, D.; Ponomareva, A.; Roset Pérez, B.; Gamboa, G.; Bamidis, P. (2024). A harmonized assessment method and KPIs for evaluating Living Labs. Proceedings of the XXXV IISPIIM Innovation Conference.
<https://doi.org/10.5281/zenodo.11581077>
- **Living Lab integrative process:** <https://academy.enoll.org/course/living-lab-integrative-process-training>
- **3-layered model** - © Dr. Dimitri Schuurman, imec – Ugent
<https://biblio.ugent.be/publication/5931264/file/5931265.pdf>
- **PREPSOIL taxonomy:**
 - Full deliverable - <https://zenodo.org/records/13255005>
 - Guidelines - <https://zenodo.org/records/13255032>
- **PREPSOIL Business Model for Soil Living Labs:**
 - Full Deliverable - <https://zenodo.org/records/12919420>
 - Guidelines - <https://zenodo.org/records/12819107>

Further reading/watching...

- **Soil Monitoring Law**

- Press release: <https://www.consilium.europa.eu/en/press/press-releases/2024/06/17/soil-monitoring-law-eu-on-the-pathway-to-healthy-soils-by-2050/>
- Outcome of proceedings: <https://data.consilium.europa.eu/doc/document/ST-11299-2024-INIT/en/pdf>
- Directive proposal: <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex:52023PC0416>

- **Soil Function**

- Rogier P.O. Schulte, Rachel E. Creamer, Trevor Donnellan, Niall Farrelly, Reamonn Fealy, Cathal O'Donoghue, Daire O'Uallachain, Functional land management: A framework for managing soil-based ecosystem services for the sustainable intensification of agriculture, Environmental Science & Policy, Volume 38, 2014, Pages 45-58, ISSN 1462-9011, <https://doi.org/10.1016/j.envsci.2013.10.002>

- **EJP Soil Policy Papers**

- "Soil health and ecosystem services: monitoring and evaluation"
https://ejpsoil.eu/fileadmin/projects/ejpsoil/Policy_briefs/SIREN/SIREN_Policy_brief.pdf
- "A framework for setting soil health targets and thresholds in agricultural soils"
https://ejpsoil.eu/fileadmin/projects/ejpsoil/WP8/Policy_briefs/EJPSOIL_Policy_Brief_Targets_and_Thresholds.pdf

Any final question?





Help us help you!!

Share your views
& feedback





Thank you

Connect with us for more information

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contacts@soill2030.eu



soill2030.eu



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[company/soill2030](https://www.linkedin.com/company/soill2030)



[@soill2030](https://www.youtube.com/@soill2030)