

Foundations of Soil Health Living Labs: principles, setup and tools

Online Training Session, Day 1



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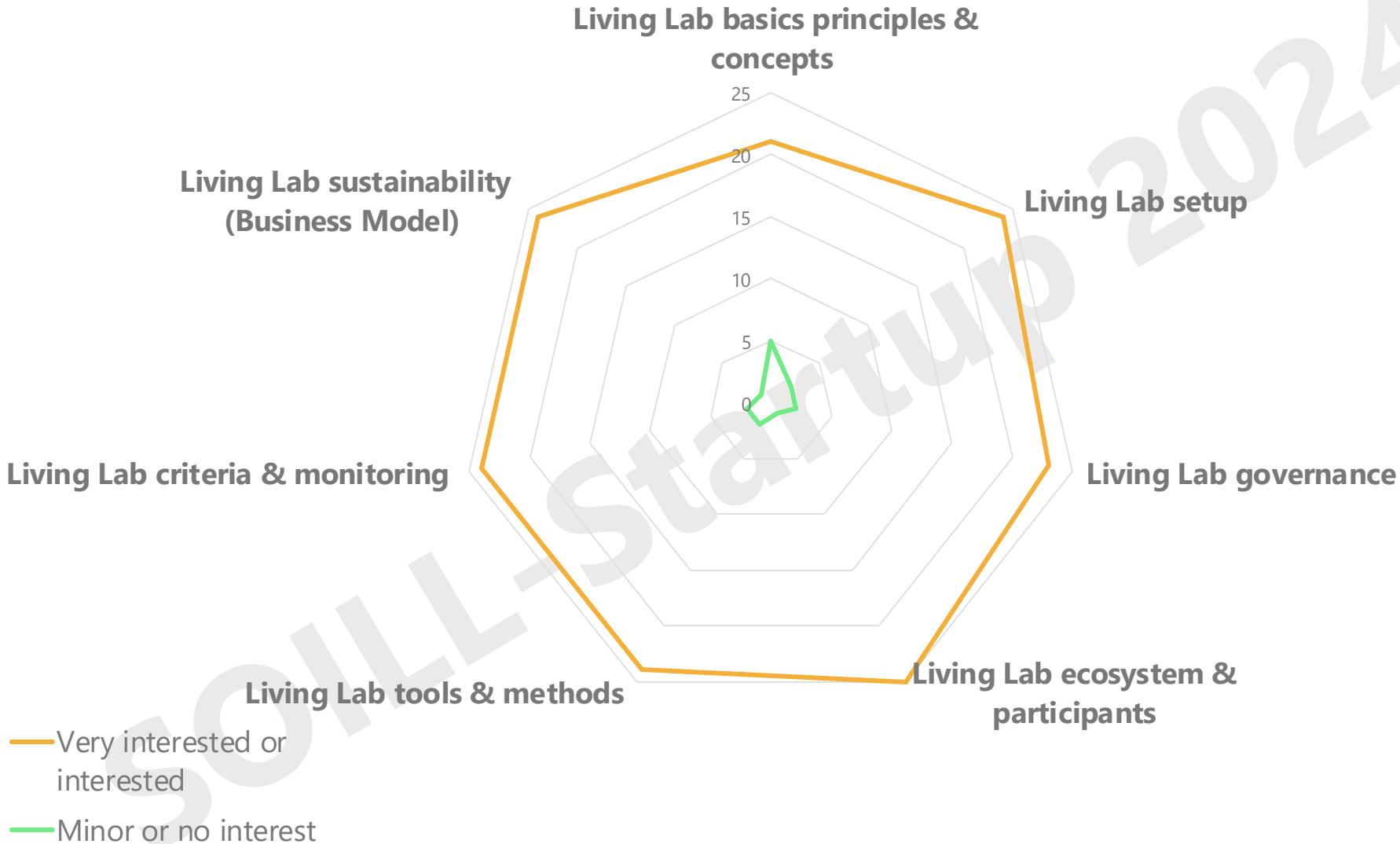


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Context: SHLL Learning Journey



Needs assessment: your feedback



Today's Trainers



Giulia Campodonico
European Network of
Living Labs (ENoLL)



Dolinda Cavallo
European Network of
Living Labs (ENoLL)



Aurora Agostinis
European Network of
Living Labs (ENoLL)



Jo Bijttebier
ILVO | Living Lab



The steps for setting up a Living Lab

Define Vision,
Mission, and
purpose

Define the
Value
Proposition

Stakeholders'
identification

Develop a
Governance
model

Design a
Business
model

Create a
Strategic
Development
Plan

**Successful
Living Labs**

1

2

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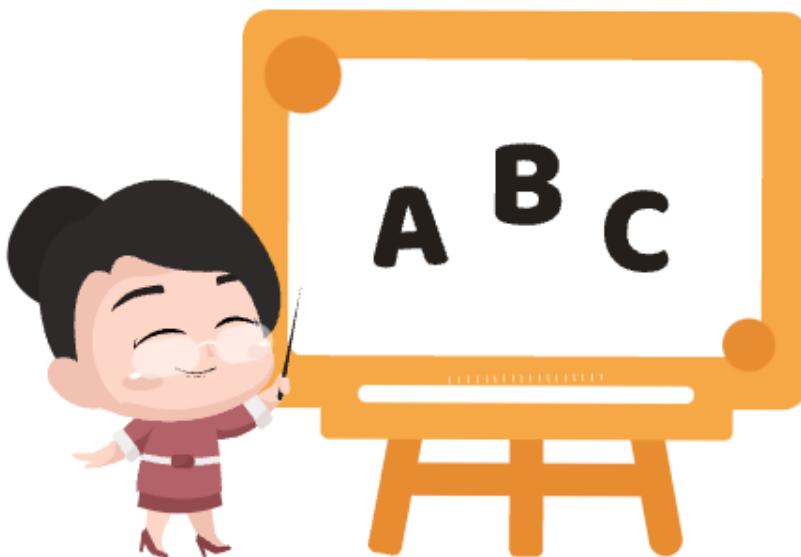
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Writing up your LL...

...starting from ABC





What to expect from this training?



BASICS

Principles & definitions of
Soil Health Living Labs

BLOCKS

Building blocks of Living Labs

CHAMPION

Champion example of
a successful Living Lab

ACTORS

Key actors and stakeholders
of Living Labs

STEPS & TOOLS

Key steps & tools to set up a
successful Soil Health Living Lab

PLANS

Designing a Living Lab Governance
Model & Business Model

What are the key sources





Agenda Day 1



Key components: SHLLs, SHLHs and ES



Why Living Labs?



3-layer model & real-life example



Building blocks of Living Labs



Participants in Living Labs along the 4-helix



Q&A

What are the principles and definitions of a Living Lab?

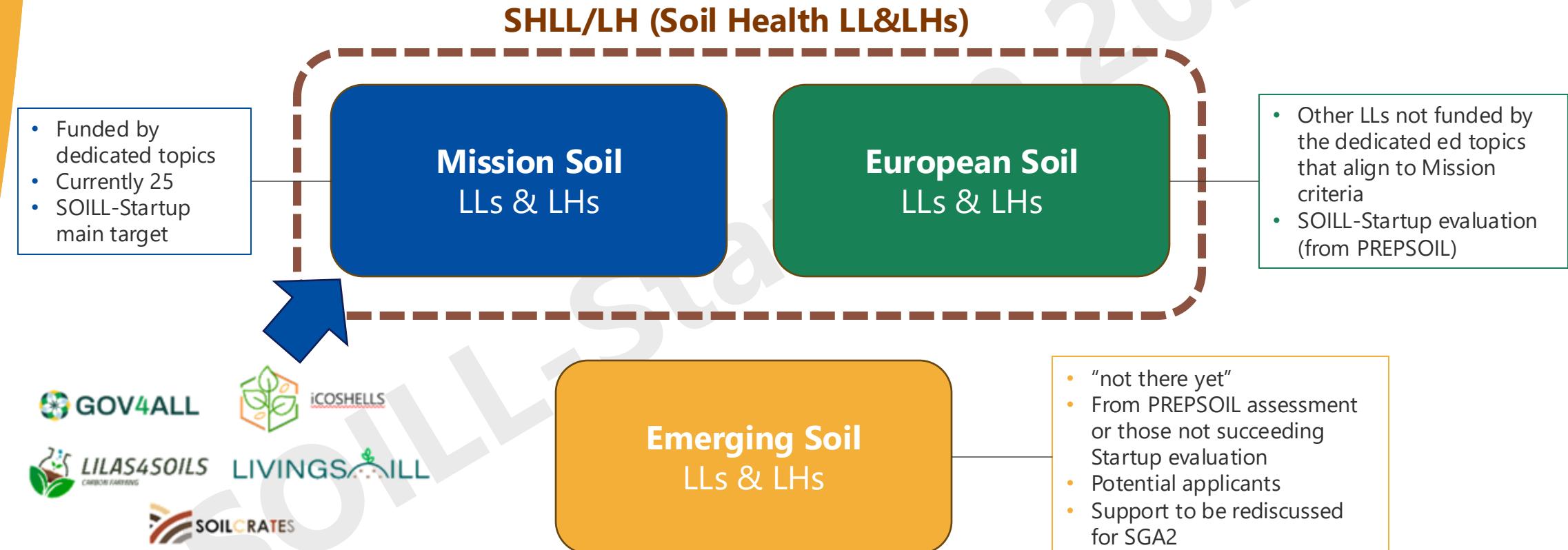




Soil Health LL naming (harmonization)

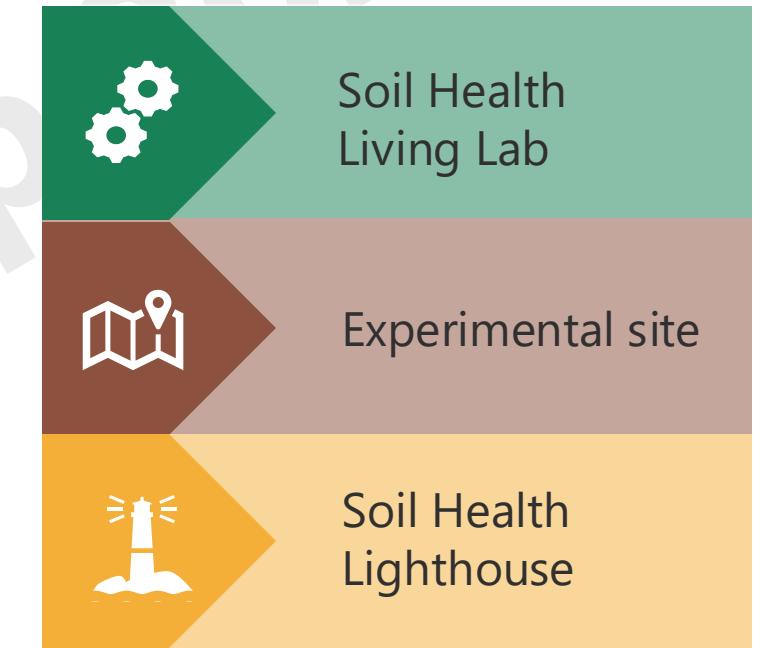
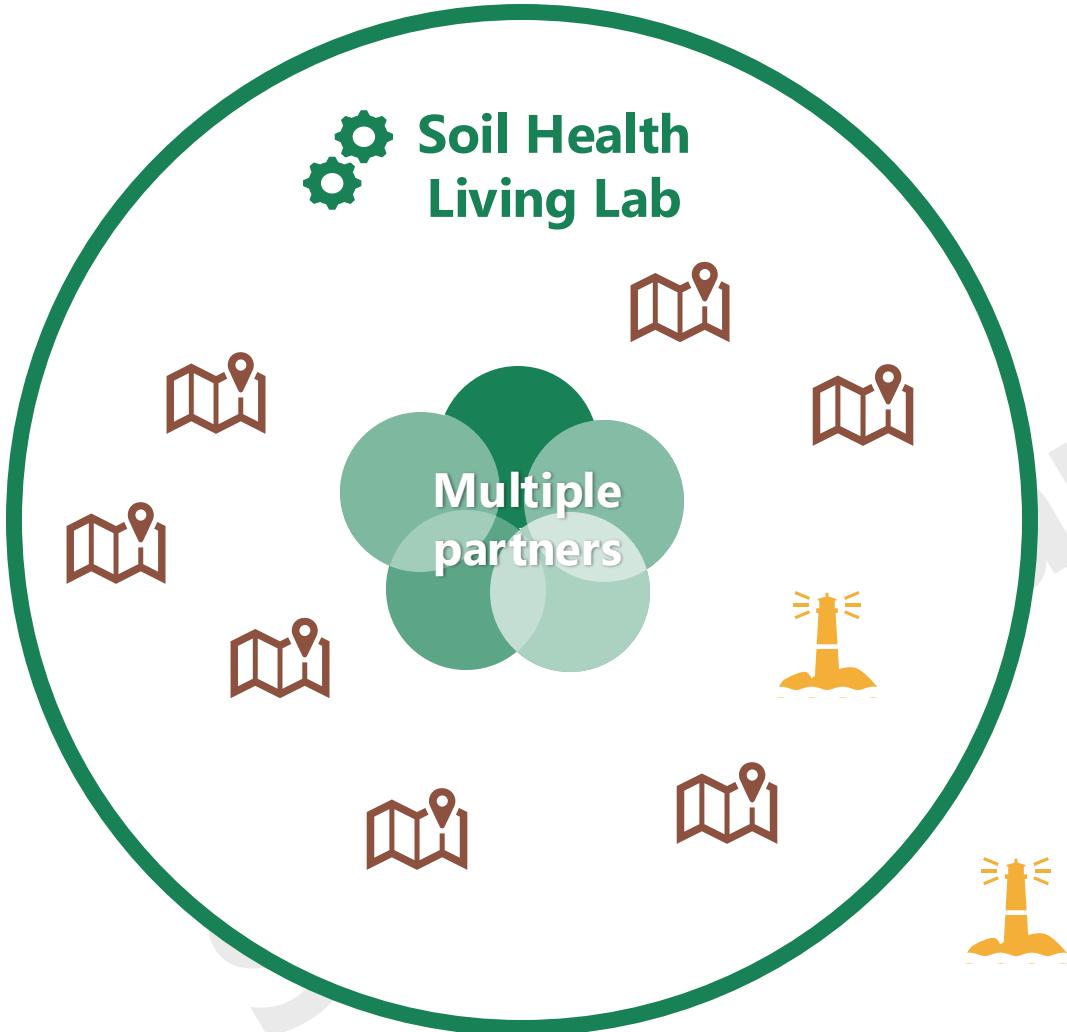


PREPSOIL
European Network of Living Labs (ENLL)
Soil Compendium
The Platform



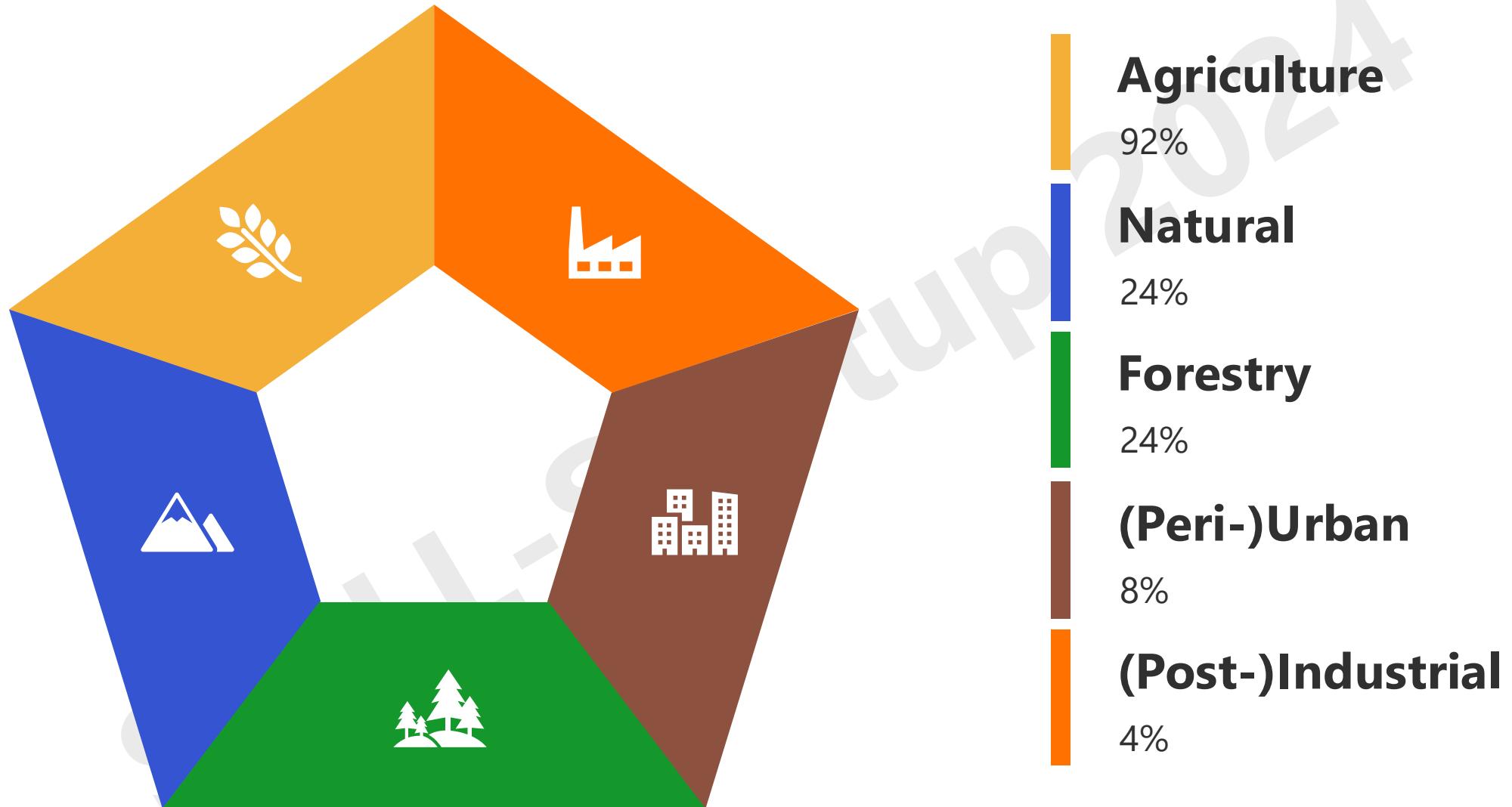


Soil Health Living Labs key components





Mission Soil Living Labs per land-use type



AGRICULTURE LIVING LAB

Suppliers

Retailers

Customers

Landowners



Farmers



Researchers



Advisors

Existing and new technology



Cultivation experts



URBAN LIVING LAB



FORESTRY LIVING LAB





Soil Health Living Labs across land-use types



PLAYERS



Agricultural LLs

Organic and mineral soils, specific farming systems approaches (organic, regenerative, conservation, precision), agroecology

Farmers and land users, agricultural advisors, agribusiness companies...



(Peri)Urban LLs

Multi-use soils, soil threats, sustainable urban planning, etc.

Citizens, public administrations, inhabitants, civic groups...



Forestry LLs

Forest related measures (Forest Strategy 2030), land fragmentation, abandonment, landscape planning.

Landowners, forest managers, forest companies, forest owner associations...



Industrial LLs

Multi-use soils, soil restoration, soil threats, soil sealing and pollution

SMEs, large industries, associations, consumers



Natural LLs

Natural soils, specific conservation and restoration approaches (forest management, wetland restoration, erosion control, biodiversity conservation).

Land managers and custodians, environmental advisors, conservation businesses, researchers, policy makers, NGOs.



Definition: Soil Health Living Labs

Soil Health Living Labs *



Collaborative initiatives to co-create knowledge and innovations

"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."

Multi-stakeholders

- Quadruple helix model

User-centred

- Involve all relevant partners in co-design, testing, monitoring and evaluation of solutions

Real-life environment

- Real life setting

Several sites

- e.g. farms, forest exploitations, city parks at **regional or sub-regional** level.

SOIL

- Alignment to Mission goals and strategies



SOIL

- alignment to Mission Goals and strategies

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





Mission implementation plan criteria for LLs

AIMS

- **Innovation, co-creation**, formal learning
- Contribution to **societal challenges**
- **Improving soil health and related ecosystem services** (→ mission objectives)

ACTIVITIES

- **Co-creation, co-development & experimentation** of innovations improving soil health and related ESS
- **Research on impact of these innovative practices on ecosystems**
- **Networking and knowledge exchange**
- **Demonstration** (in particular Lighthouses)

PARTICIPANTS

- **Public-private people partnership**
- **Real users (soil managers connected with broad array of stakeholders & decision-makers)**
- **Demonstration:** wider public, policy arena, EIP and relevant networks

CONTEXT

- Multiple **disciplines** (-> transdisciplinary, inc. social sciences), **methods**, **dimensions** (technical, economic, social)
- **Place-based** approach and **real-life context** = real farms/forest/urban sites
- **Robust scientific setup for ecosystem assessment**
- **Openness**, communication, dissemination



What is not a Living Lab?

A Living Lab is NOT...



TEST BED

"Pre-Living Lab" setting enabling rigorous, transparent, and replicable testing of scientific theories, computational tools and new technologies in a controlled environment with users (often mainly researchers).



"Fabrication Laboratory" or Fab Lab is a small-scale workshop offering digital fabrication.



FABLAB



HOMELAB

Focus on testing and adapting new technologies based on their fit with the daily home environment.





Why LLs: LLs for complex & wicked problems

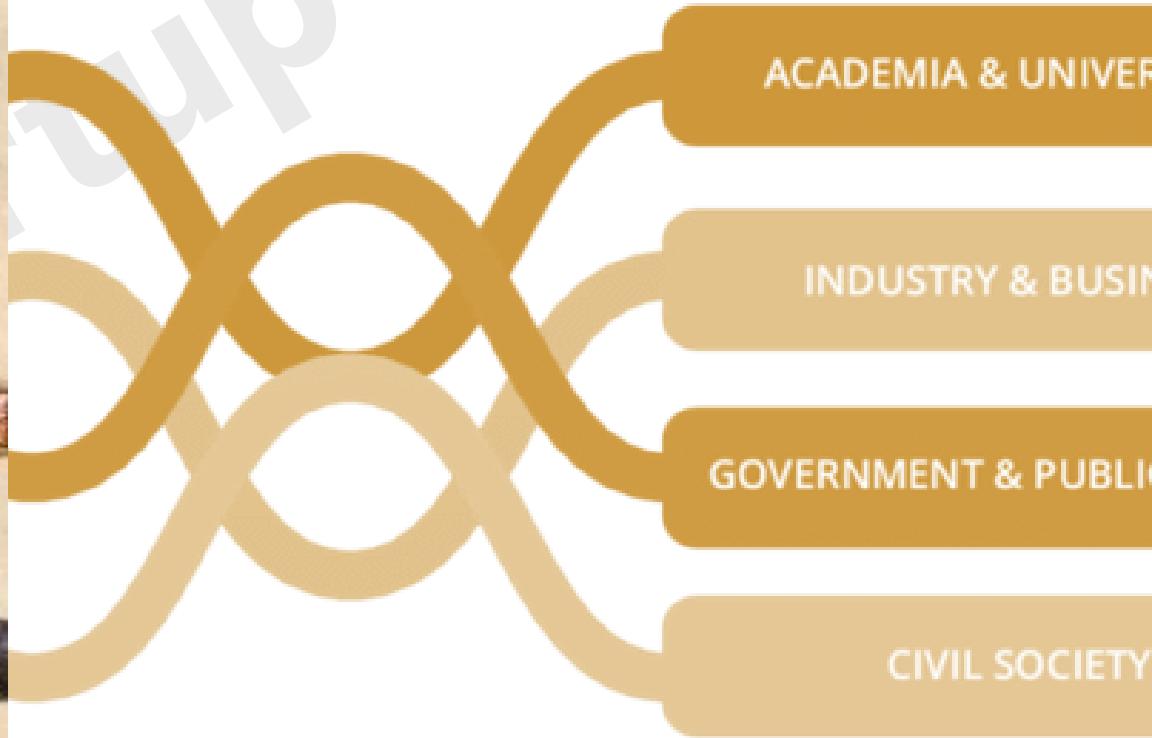


- Complex challenges cannot be solved by single stakeholders
- Different language
- Different approach (solution driven to problem driven)
- Different goals (solution for practice vs publishable results)
- Practical solutions from one site are not widespread
- Practical solutions are not evaluated
- Lots of motivated key stakeholders, still difficult for them to get heard
- Lack of trust between stakeholders
- ...



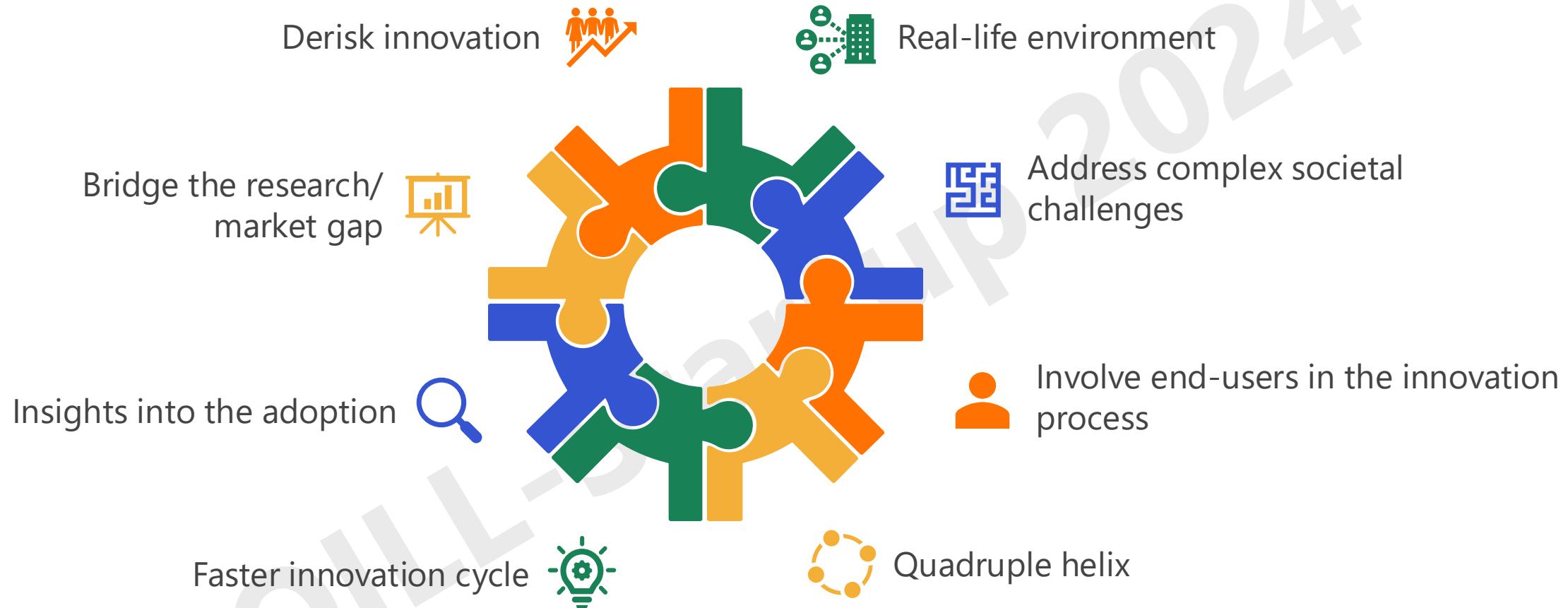
Living Lab are trustful regional ecosystems

Living Labs create a **trustful environment** that all stakeholders perceive as safe and neutral to open and contribute, understanding the value for them but also the value for the whole ecosystem





Why Living Labs: Benefits



Living Labs provide a flexible and adaptable innovation approach that can help create positive societal change by addressing wicked problems through collaborative and participatory processes.

Definition: Soil Health Experimental Sites & Lighthouses

Experimental Sites



Experimental sites are characterized by being **individual**, real-life physical places where co-creation processes take place to improve soil health.

- The sites and their characteristics can vary according to the land type.
- The sites should focus on specific themes of shared interest for the LL, allowing for replication, validation, and knowledge exchange at regional level, extendable to similar settings beyond the project scope.
- The **sites** can e.g. farms, forest plots, city parks, at **regional** or **sub-regional** level.

Soil Health Lighthouses



Individual sites of exemplary performance

"Places for demonstration of solutions, training and communication that are **exemplary in their performance** in terms of soil health improvement"

- They **showcase** good practices and upscale solutions.
- They are places for demonstrations, training, networking and communication towards future users, policy-makers or the broader society.
- Help adoption of sustainable practices by **inspiring land users** through practical tools.





Mission implementation plan criteria for LHS

Lighthouses: good example for others to learn from



Criteria based on **exemplary performances** in terms of soil health and related ecosystems services

ACTIVITIES

- **Demonstration, dissemination and promotion** to soil managers, the public and the policy arena, at landscape scale and beyond, of land-use systems that satisfy criteria for sustainable development, science-based terms of soil health and related ecosystem services.
- **Reaching out to the policy arena** linking results of the LHS to environmental rules and regulations. This in line with science-based policy support and governance.



Mission implementation plan criteria for LHS

Lighthouses: good example for others to learn from

A short-term project, well defined, measurable that serves as a model for other similar projects

Key features

- Progressive nature
- Fast delivery
- Adaption to new ideas, as specific problem to address and a clear and easily understood metrics





Soil Health key concepts

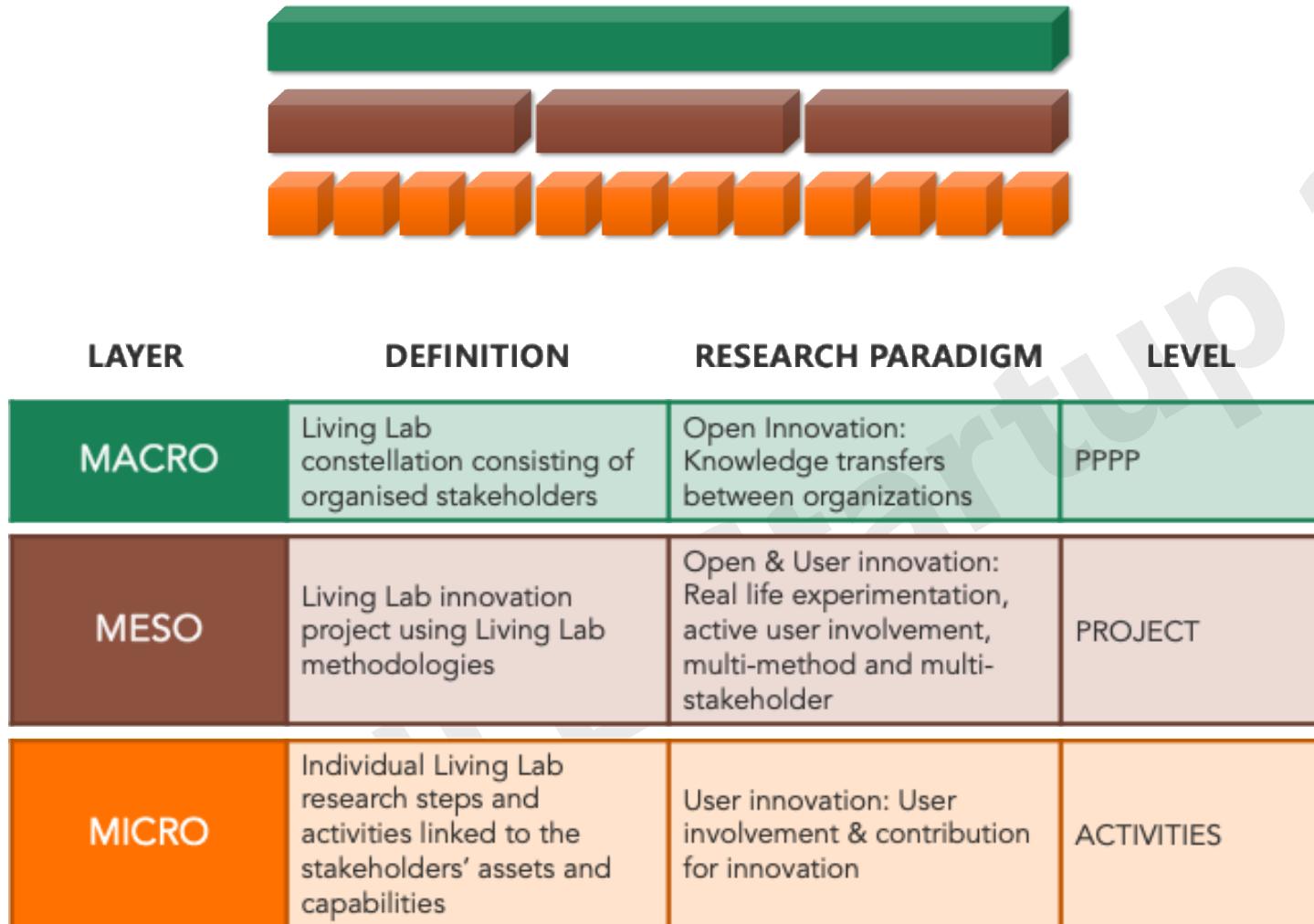
SCALE	ACTIVITIES	PERFORMANCE IN SOIL HEALTH IMPROVEMENT
 Living Lab	Regional/ subregional landscape	Coordinate experimentations & partners
 Living Lab experimentation site	Local (one farm/forest, one urban site, etc)	Co-create knowledge and innovations
 Lighthouse	Local (one farm/forest, one urban site)	Experiment and/or demonstrate

The three-layered model





Three-layered model: Overview

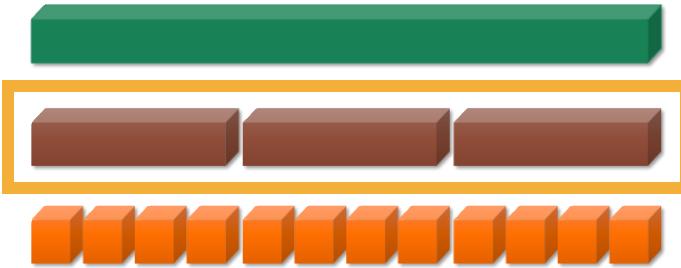


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Living Labs focus on:

- A well structured **organisation** on the **macro** level
- With living lab **projects** in the **meso** level
- Consisting of **co-created activities** in the **micro** level

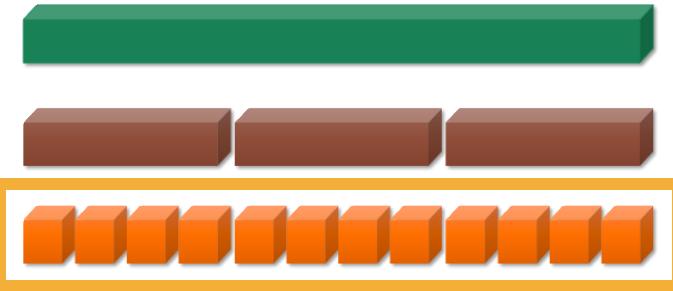
Three-layered model: Meso level



LAYER	DEFINITION	RESEARCH PARADIGM	LEVEL
MESO	Living Lab innovation project using Living Lab methodologies	Open & User innovation: Real life experimentation, active user involvement, multi-method and multi-stakeholder	PROJECT



Three-layered model: Micro level



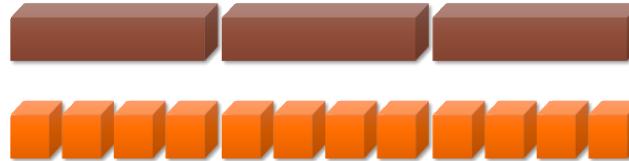
LAYER	DEFINITION	RESEARCH PARADIGM	LEVEL
MICRO	Individual Living Lab research steps and activities linked to the stakeholders' assets and capabilities	User innovation: User involvement & contribution for innovation	ACTIVITIES



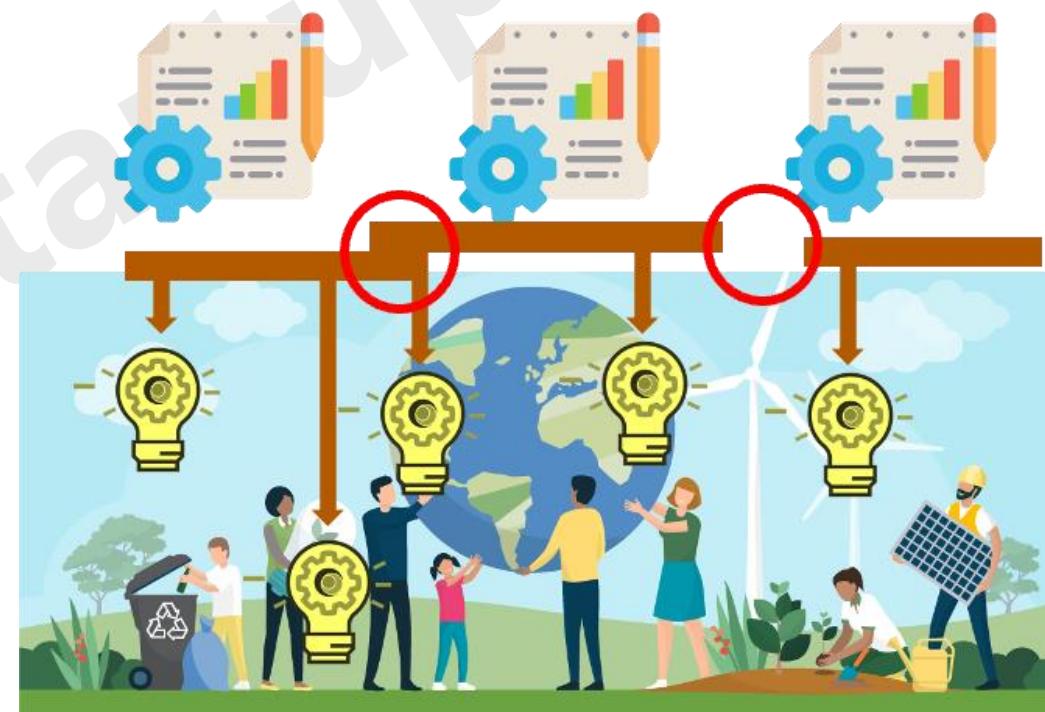
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- **Co-creation, co-development & experimentation** of innovations improving soil health and related ESS
- **Research on impact of these innovative practices on ecosystems**
- **Networking and knowledge exchange**
- **Demonstration** (in particular lighthouses)

Three-layered model: Macro level

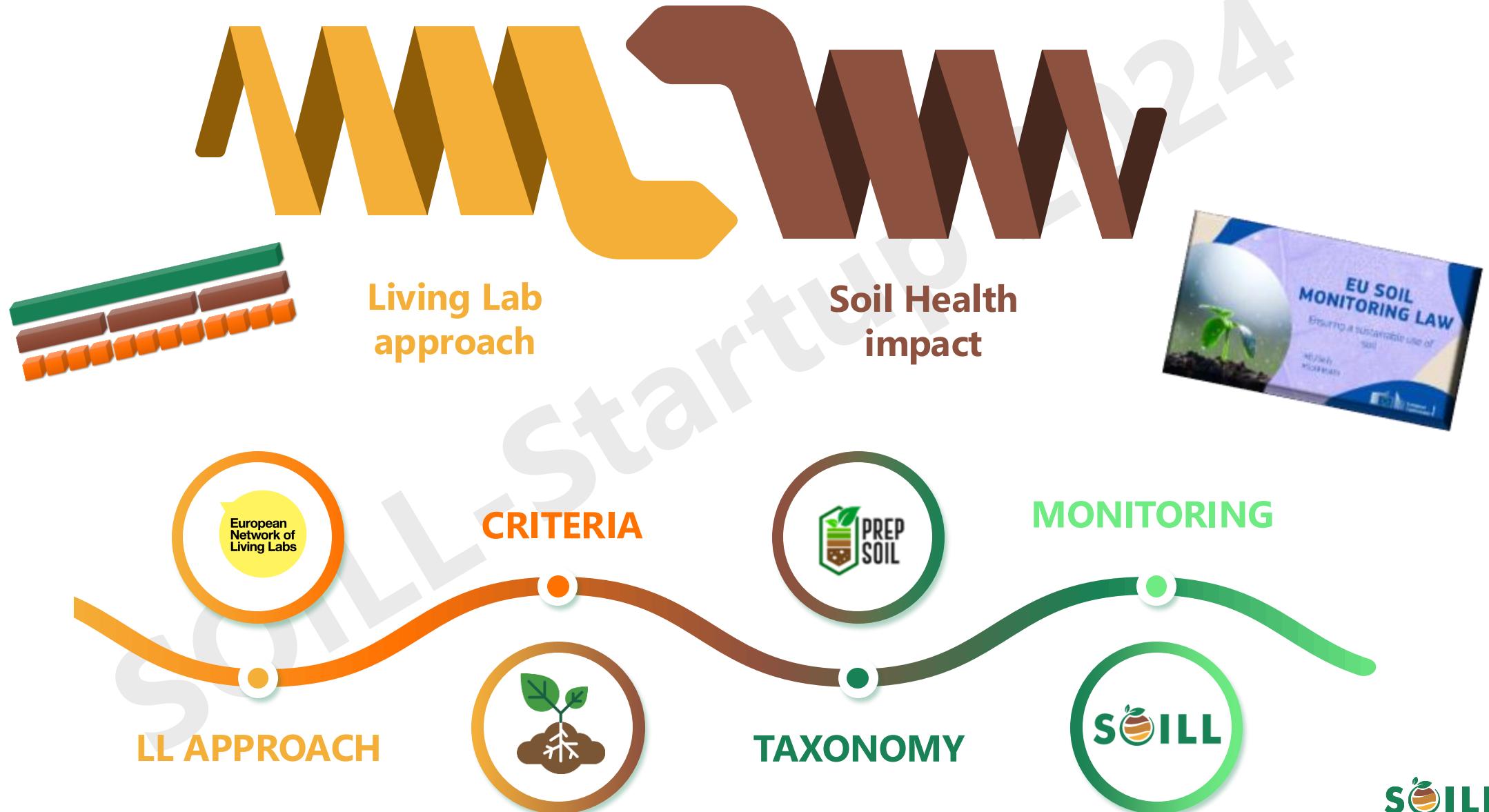


LAYER	DEFINITION	RESEARCH PARADIGM	LEVEL
MACRO	Living Lab constellation consisting of organised stakeholders	Open Innovation: Knowledge transfers between organizations	PPPP

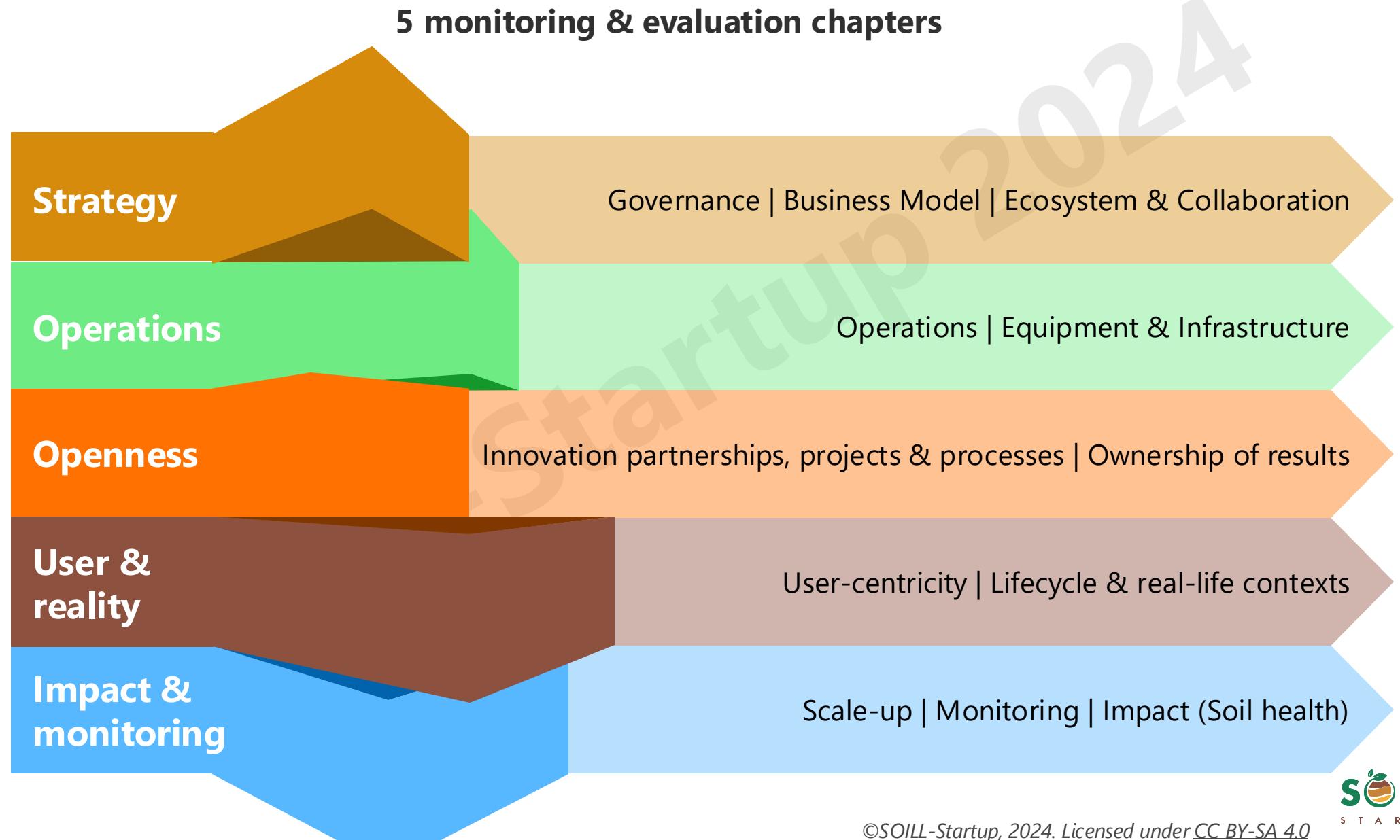


Strategy beyond the project(s)!

SOILL systemic approach to LL evaluation

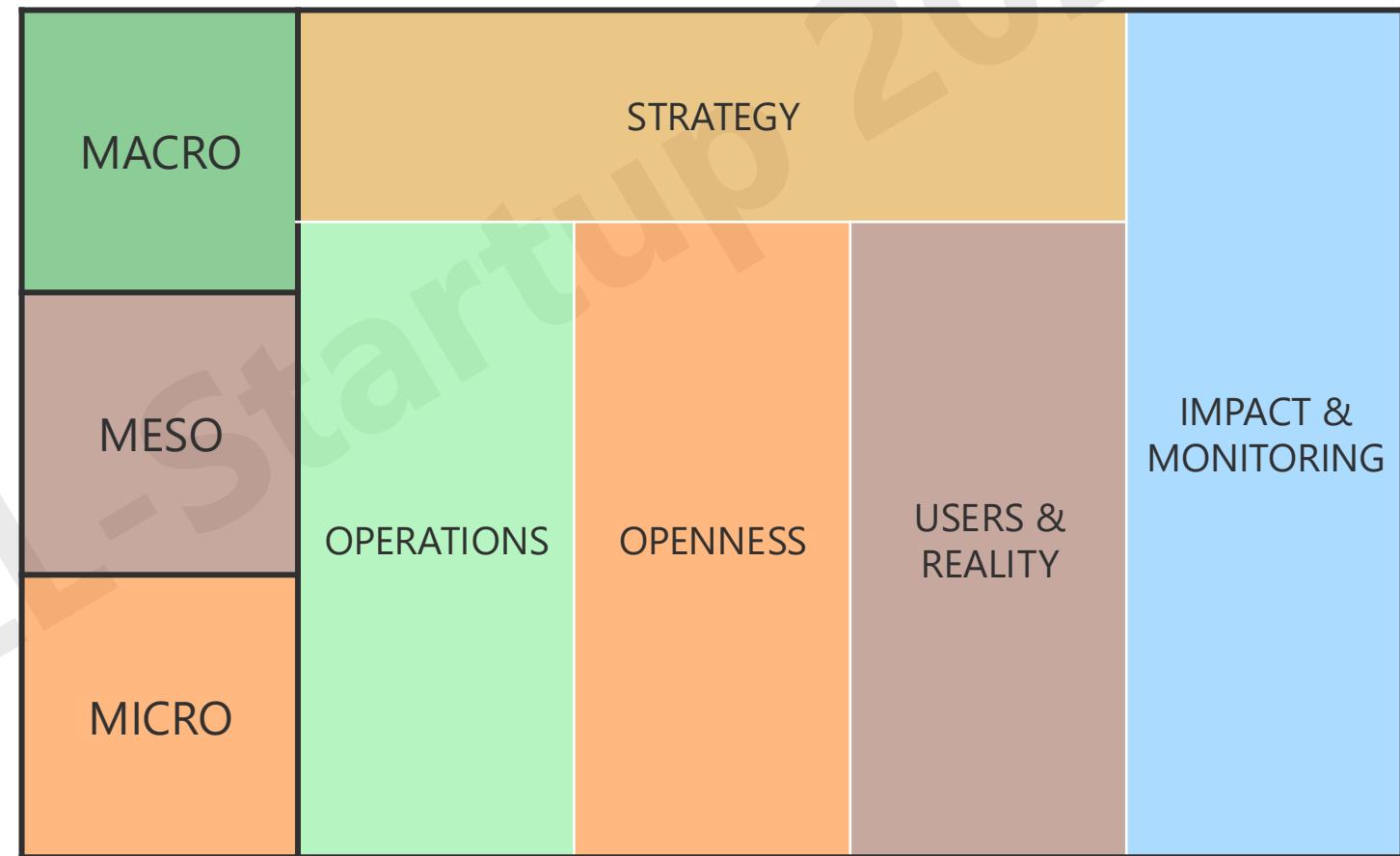
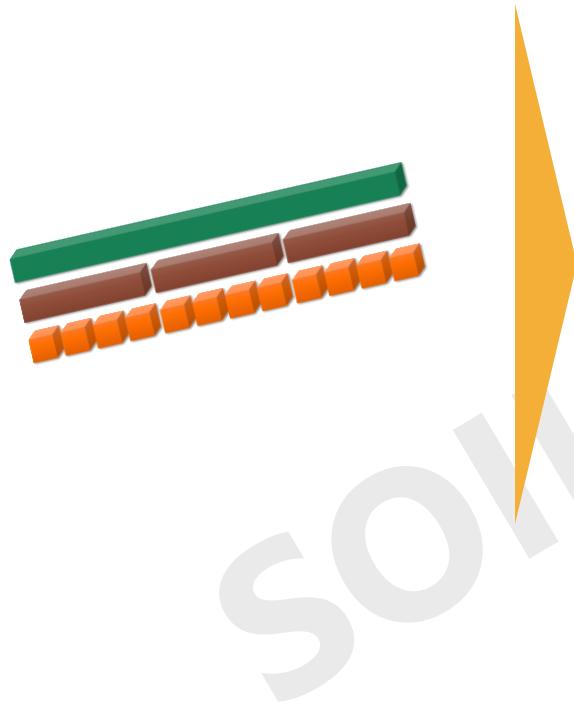


SOILL harmonized LL monitoring & evaluation framework

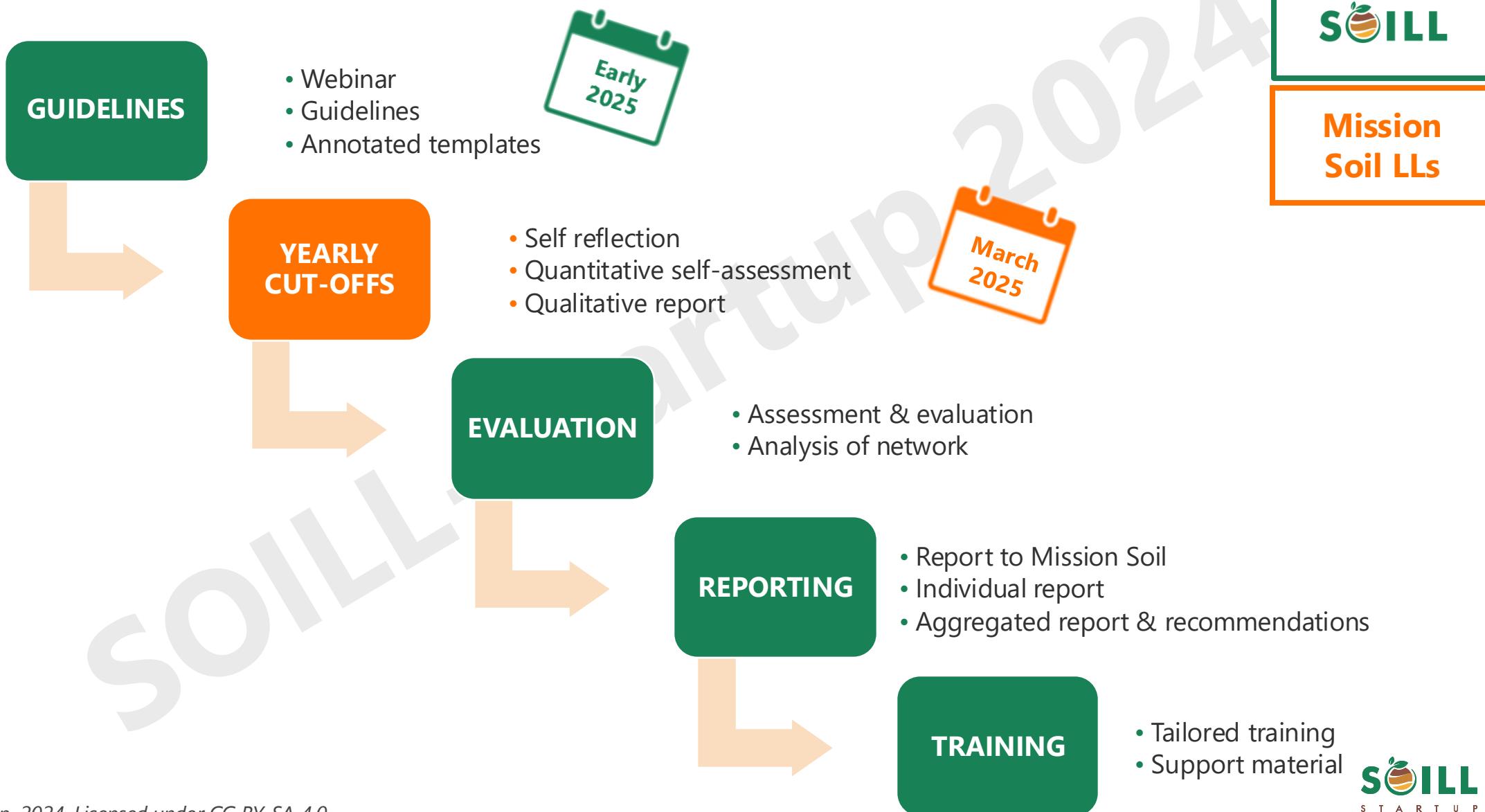


SOILL harmonized LL monitoring & evaluation framework

5 monitoring & evaluation chapters



SOILL harmonized LL monitoring & evaluation framework



Real-life example: ILVO Living Lab





SOILL-9
Startup 2024

llaebio@ilvo.vlaanderen.be

www.llaebio.be

Jo Blijtebier (ILVO) -9th of December 2024

ILVO

Flanders Research Institute for
Agriculture, Fisheries and Food
Burg. Van Gansberghelaan 92
9820 Merelbeke – België

www.ilvo.vlaanderen.be

Farming in Flanders

declining **SOIL** quality

WATER availability and water quality

decline in **(AGRO)BIODIVERSITY** and related ecosystem services

acces to **LAND**

POSITION of the farmer in food chain

Reconnect with consumer

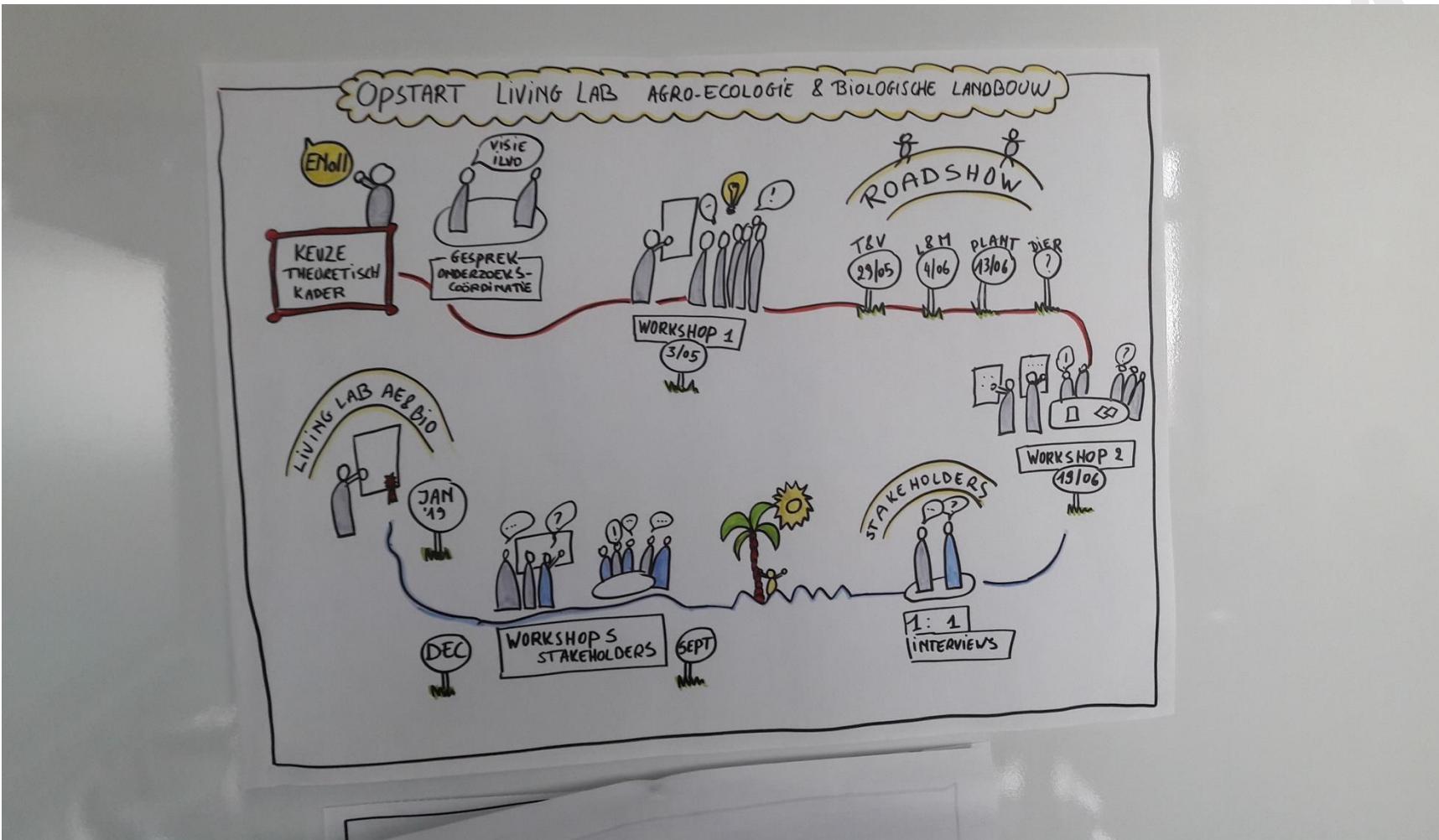
Agroecology as lever in transition to more sustainability ?



The initiative



The initiative



The initiative

The name of the living lab: agroecology; organic farming; agroecology and organic farming, etc

What is the added value, interest for each stakeholder?

How do we differentiate from already existing initiatives?

...



Official launch in 2020



**A platform for collaboration in Flanders
Where different stakeholders are connected
To share knowledge and conduct research to support
agroecology transition
By applying LL principles**

Facilitation and coordination by ILVO: 2 FTE from ILVO (4 persons)



LIVING LAB

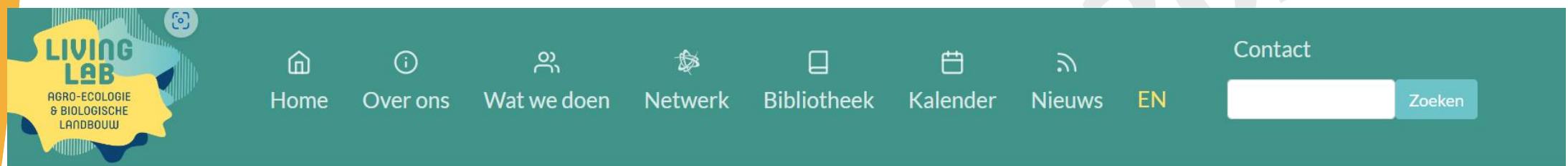
AGRO-ECOLOGIE
& BIOLOGISCHE
LANDBOUW

Living lab@the macro level

A platform for collaboration in Flanders
Where different stakeholders are connected
To share knowledge and conduct research to support
agroecology transition
By applying LL principles

A platform for collaboration

Website www.llaebio.be



A meeting place

The Agroecology and Organic Agriculture Living Lab (LLAEBIO) is a network open to all individuals and organizations who wish to support the development of [agroecology and organic farming](#) in Flanders.

[Read more about our mission.](#)

LLAEBIO supports research, innovation and knowledge sharing around agroecology and organic agriculture. By bringing together science, policy and practice, LLAEBIO addresses your questions or ideas within this field of practice.

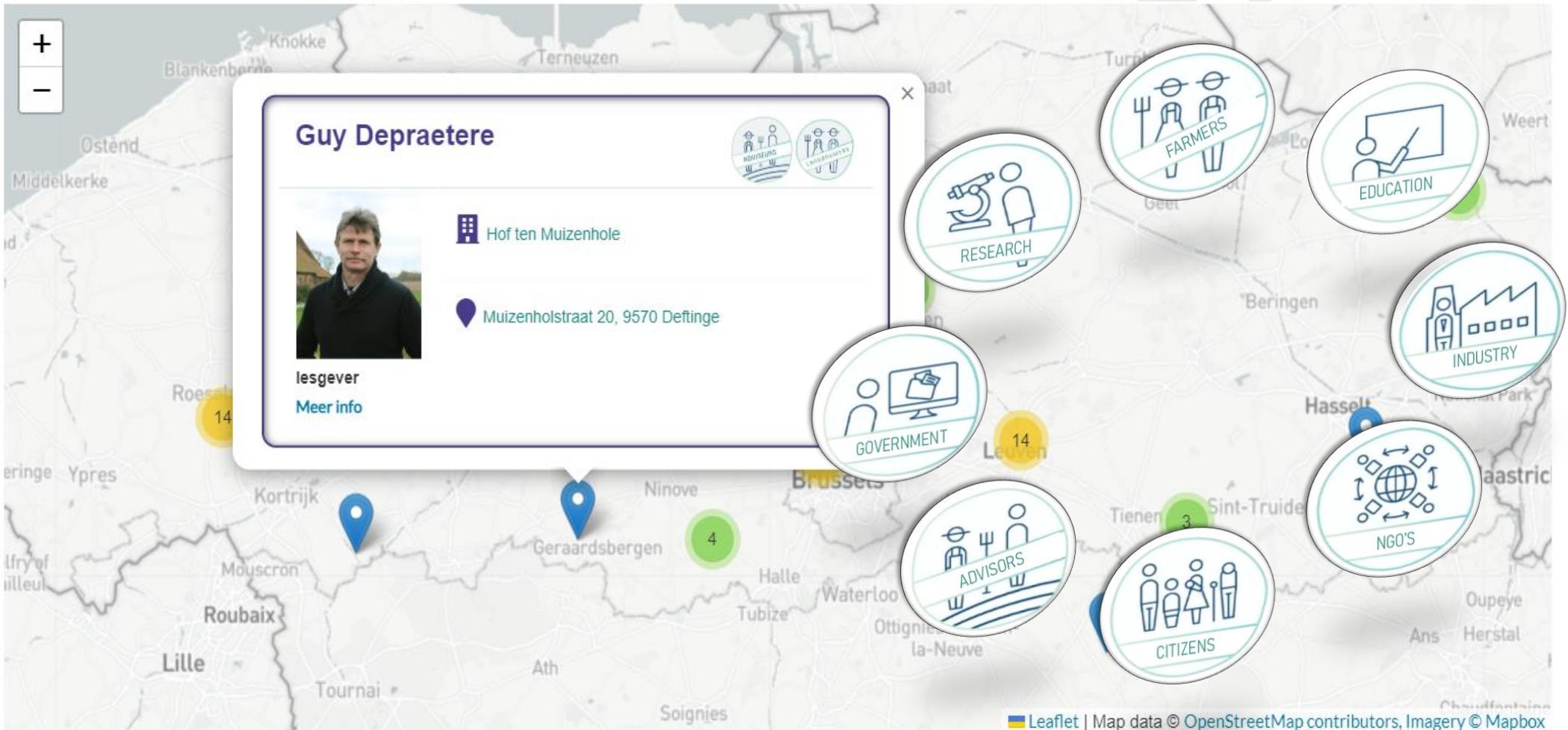
[Read more about what we do.](#)



For you too!

A platform for collaboration

Network databank (expertise, stakeholder group, location, etc)



Leaflet | Map data © OpenStreetMap contributors, Imagery © Mapbox

A platform for knowledge exchange

'LLAEBIO draait door' (4 times/year): presentation of events, research results, new initiatives, legislation, etc

Farm visits (eg connecting farmers and policy makers):

Formal and informal moments





Living lab@the meso level

**A platform for collaboration in Flanders
Where different stakeholders are connected
To share knowledge and conduct research to support
agroecology transition
By applying LL principles**



Research and innovation projects

- No structural funding for long term experiments
- Applying for funding (local, regional and european funding) on a project related basis
- Consolidated network contributes to
 - Lobby for funding as a collective (living lab platform)
 - Have impact on the research agenda of local and national funding bodies
 - Share potential opportunities for funding among each other
 - Develop consortia



A platform for collaboration in Flanders
Where different stakeholders are connected
To share knowledge and conduct research to support
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By applying LL principles

Living lab@the meso level

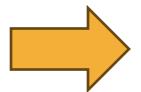
Co-creation with end users

Pioneer farmers are involved in many projects- pressure, fatigue among farmers

- No clear agreements on collaboration (expectations, roles, etc)
- Results are not clearly communicated to farmers
- Added value for farmers is lacking

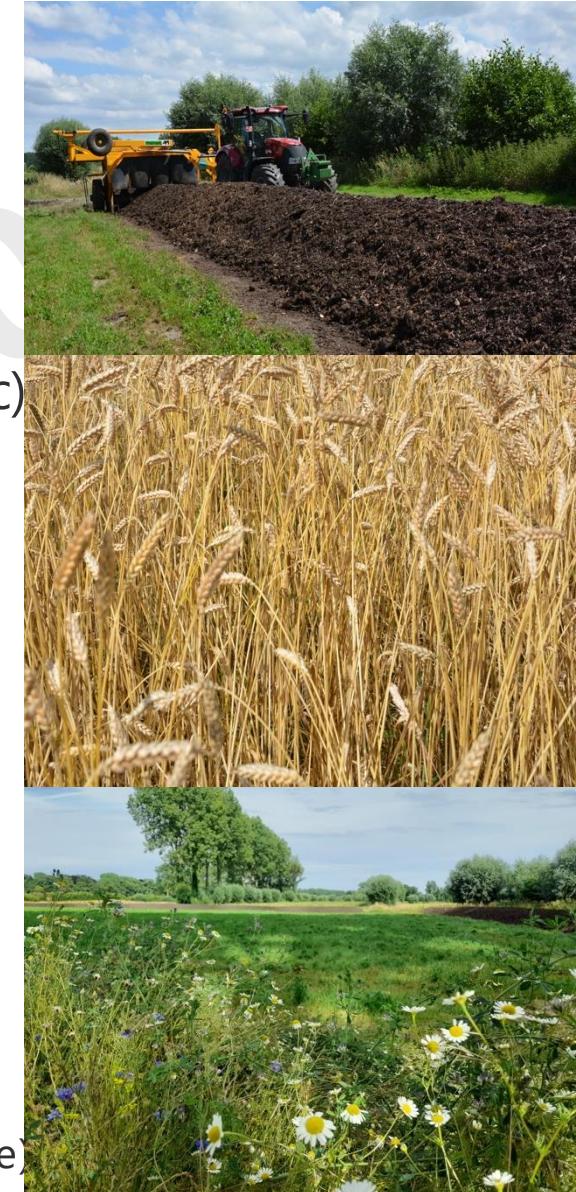


Investing in developing a network of farmers for long term commitment and structural collaboration with researchers



Develop code of conduct

- Guidelines on norms, values and responsibilities
- Good practices and conditions for successful collaboration
- List of aspects that need to be included in 'collaboration agreement' (template)

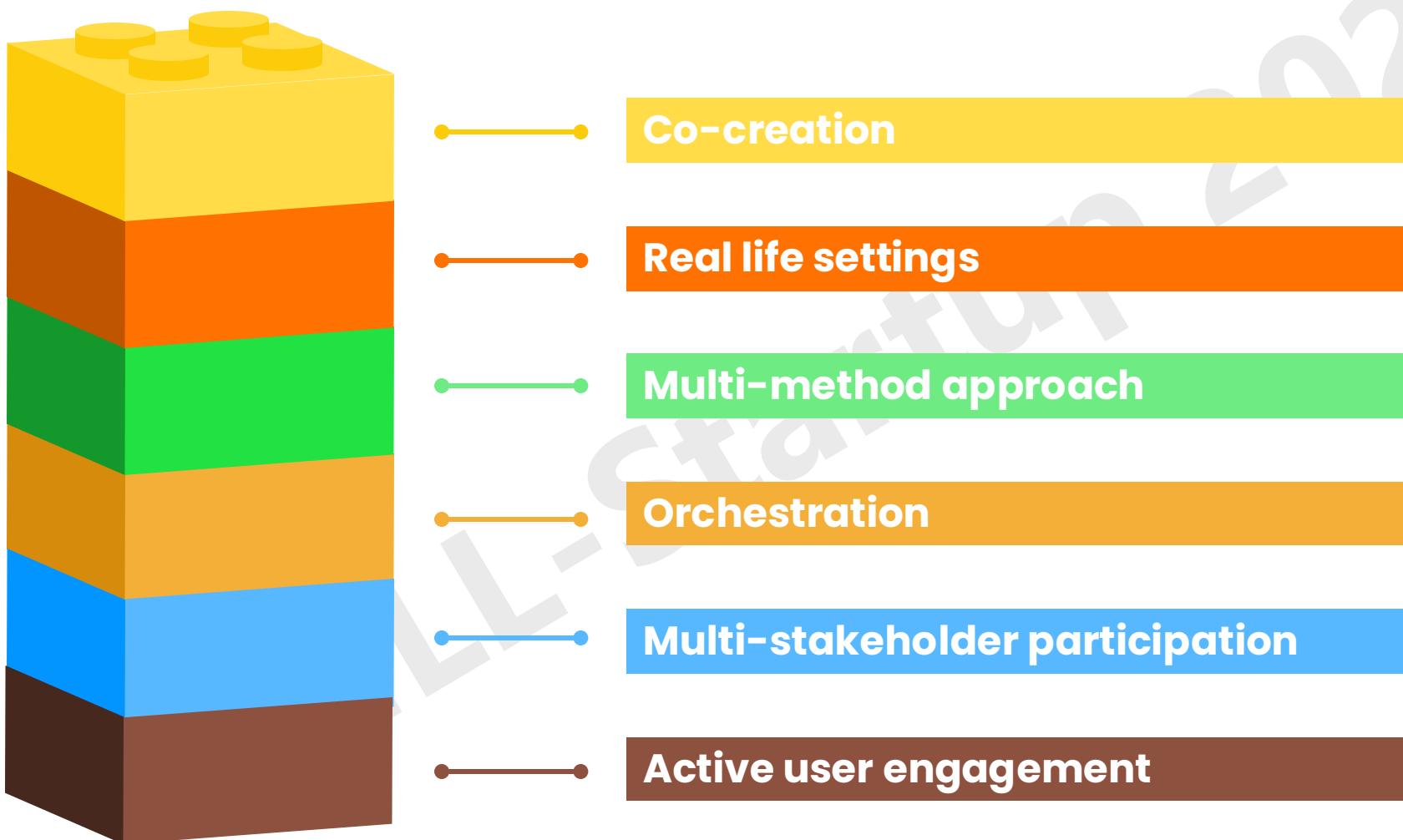


What are the building blocks of a Living Lab?

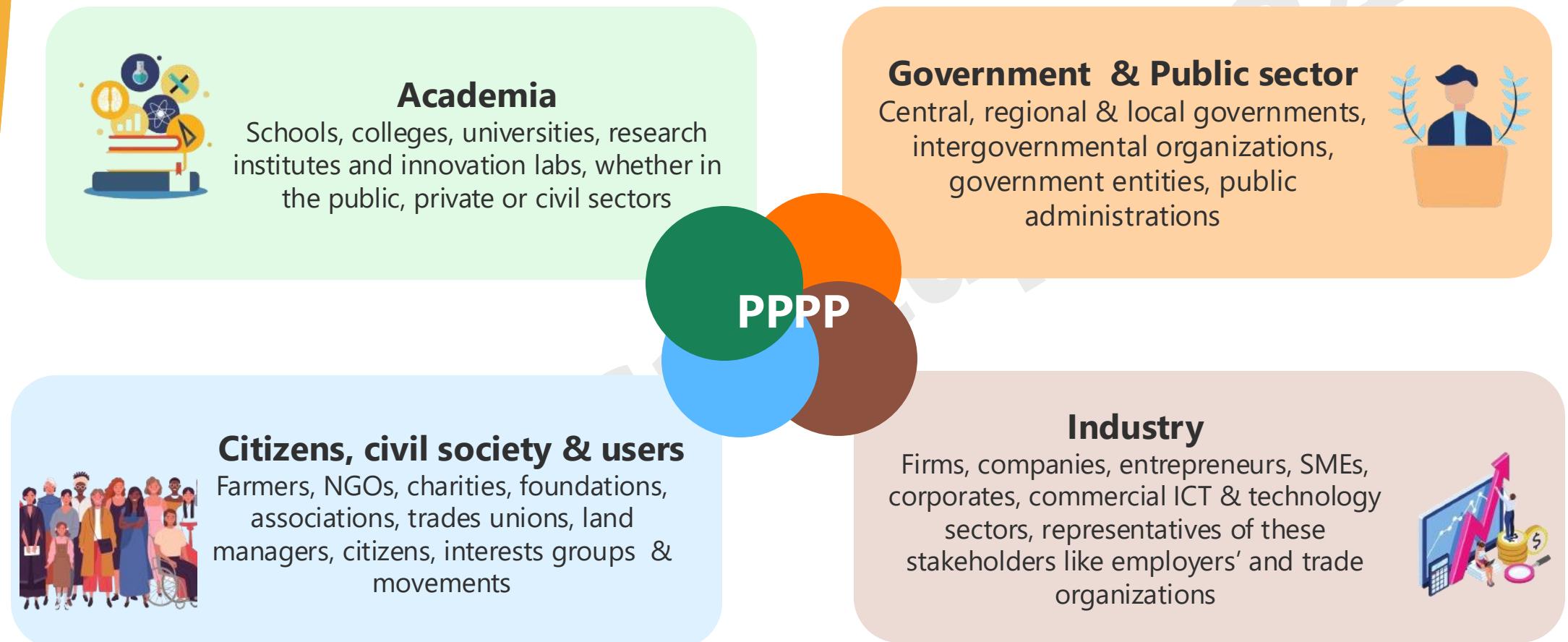




Essential Building Blocks of Living Labs



Participants in the Living Labs: Quadruple Helix



Source: Carayannis, Elias & Campbell, David. (2009). 'Mode 3' and 'Quadruple Helix': Toward a 21st century fractal innovation ecosystem. *International Journal of Technology Management - INT J TECHNOL MANAGE.* 46. <https://doi.org/10.1504/IJTM.2009.023374>.

Carayannis, E.G., Barth, T.D. & Campbell, D.F. The **Quintuple Helix innovation model**: global warming as a challenge and driver for innovation. *J Innov Entrep* 1, 2 (2012). <https://doi.org/10.1186/2192-5372-1-2>



Key benefits of Living Labs

For cities and public bodies



Increased customer knowledge



Better business model design



More desired products/services



Increased customer satisfaction



Knowledge generation



Business realism



Key benefits of Living Labs

For companies



Increased impact of products/services

Better business model design

Increased knowledge of customers

Increased customer satisfaction

Increased customer understanding

Business realism



Key benefits of Living Labs

For academia & research



- Enhanced research opportunities
- Interdisciplinary collaboration
- Access to real-world data
- Increased publication potential
- Knowledge exchange
- Technology transfer



Key benefits of Living Labs

For citizens and users



Empowered decision-making



Increased civic engagement



Enhanced knowledge & skills



User-centred public services



Be part of the innovation



Stronger community bond



What to gain from a multi-stakeholder collaboration?



Cooperating in a multi-stakeholder team makes you ...

- ... become inspired
- ... learn to think out of the box
- ... better understand each other
- ... accept different perspectives from different stakeholders
- ... aim for the same goals
- ... work together instead of side by side
- ... quickly find solutions that have been thoroughly evaluated from different perspectives and that can be scaled more easily.
- ...



The steps for setting up a Living Lab

Define Vision,
Mission, and
purpose

Define the
Value
Proposition

Stakeholders'
identification

Develop a
Governance
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**Successful
Living Labs**

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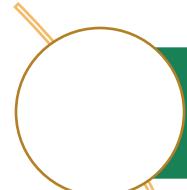
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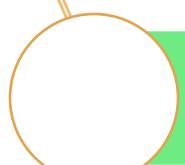
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What to expect from the Part 2 of this training?



Key actors of & within the LL



Governance model



Business models

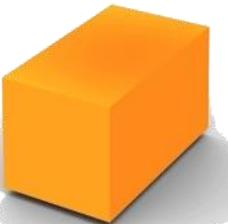


Final considerations and tools



Q&A

Q&A





Thank you

Connect with us for more information

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soill2030.eu



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



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Foundation of Soil Health Living Labs: principles, setup and tools

Online Training Session, Day 2



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Today's Speakers



Giulia Campodonico
European Network of Living
Labs (ENoLL)

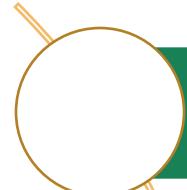


Dolinda Cavallo
European Network of Living
Labs (ENoLL)

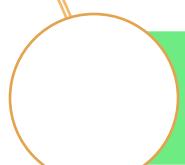


Aurora Agostinis
European Network of Living
Labs (ENoLL)

What to expect from the Part 2 of this training?



Key actors of & within the LL



Governance model



Business models



Final considerations and tools



Q&A



The steps for setting up a Living Lab

Define Vision,
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Define the
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Stakeholders'
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Develop a
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**Successful
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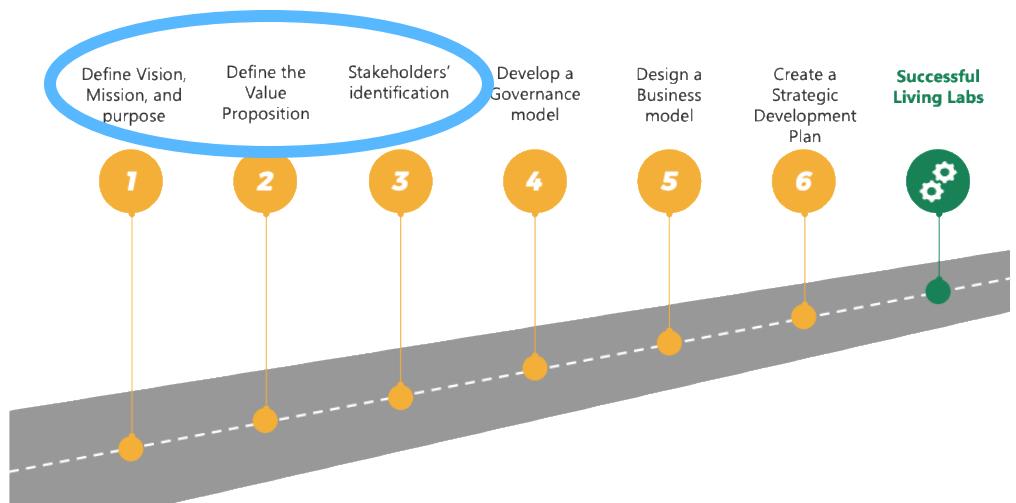
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Who benefits from the LL activities?



Activities vs Services

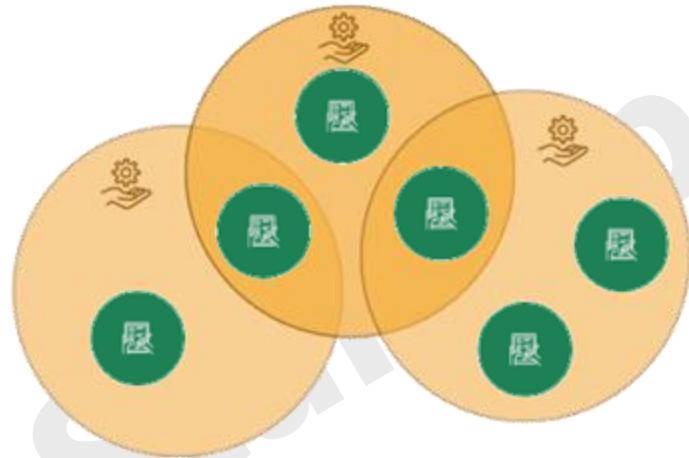
SHLL activities

Specific, task-oriented processes which operationalize the broader services provided by the Living Lab to foster innovation and collaboration.



EU MISSIONS SOIL DEAL FOR EUROPE

- **Co-creation, co-development & experimentation** of innovations improving soil health and related ESS
- **Research on impact of these innovative practices** on ecosystems
- **Networking and knowledge exchange**
- **Demonstration** (in particular lighthouses)



SHLL services

A structured set of offerings by Living Labs tailored to support innovation across its lifecycle, while leveraging real-world environments and collaborative methodologies.



Key principles



Who benefits from the Living Lab activities?



Individuals



Groups



Organizations



STAKEHOLDERS

- Involved in the Soil Health Living Lab
- OR
- Impacted by the outcomes of the SHLL but not actively involved in the SHLL organization, project, or activities



USERS

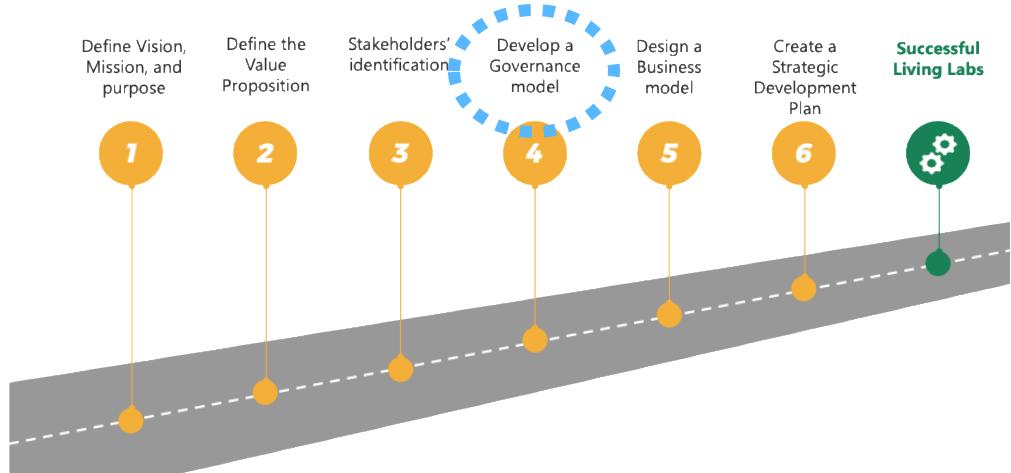
- Active participants who contribute to the innovation process through real-life engagement and feedback in LL projects and activities.
- They collaborate with researchers and developers, providing valuable insights and data that drive the development and refinement of user-centred solutions
- They are the end-users of your innovations



CUSTOMERS

- Directly paying the SHLLs to deliver services (paying the SHLL outside the scope of funded projects)
- Their willingness to invest in or purchase the SHLLs solutions can drive sustainability and scalability of its initiatives.

Who are the key actors within the LL?





Internal roles in Living Labs



Living Lab Manager

- Most apparent internal role
- Initiator & keeper of LL strategy
- Everyday activities
- Maintaining LL effectively & sustainably



Project Manager

- Responsible for management of a particular Living Lab project



Pilot Manager

- Setup, run & scale up technologies during pilot project(s)
- Facilitate implementation and test of the innovation



Internal Roles in Living Labs



Communicator

- Creates and implements the communication strategy



Human Interaction Specialist

- Performs user-centred interactions
- Analyses the results from different human interaction methods
- Responsible for testing solutions before their implementation in the real-life context
- In some research papers it is called a "researcher"

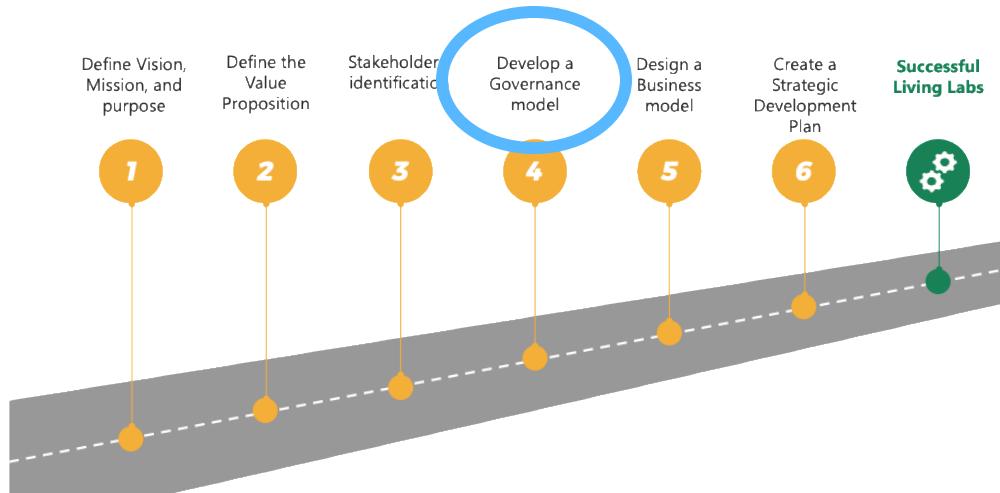


Panel Manager

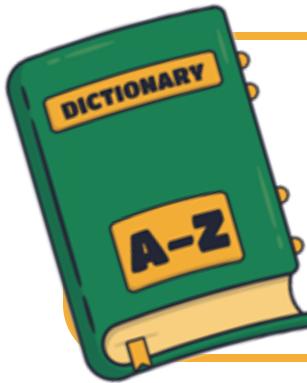
- Recruiting & interacting with stakeholders' panel
- Selects stakeholders & communications

How can a Living Lab operate effectively?

Governance in Living Labs



Governance Model - Definition



Within a Living Lab approach,
the Governance describes the way that a Living Lab
research or activity at the strategic or operational level
is managed and organized *

Direct contribution of the Quadruple Helix stakeholders



Financial



In-kind



Organisational



Decision-making process

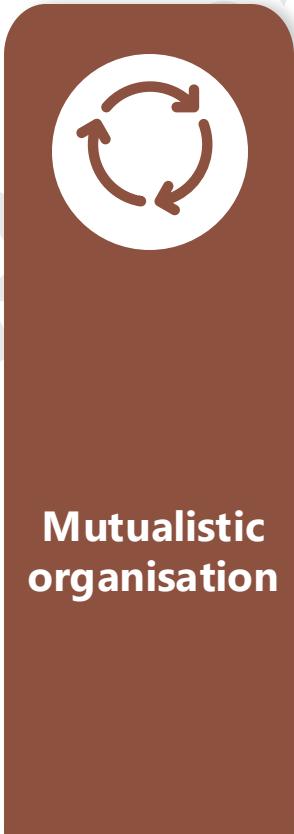
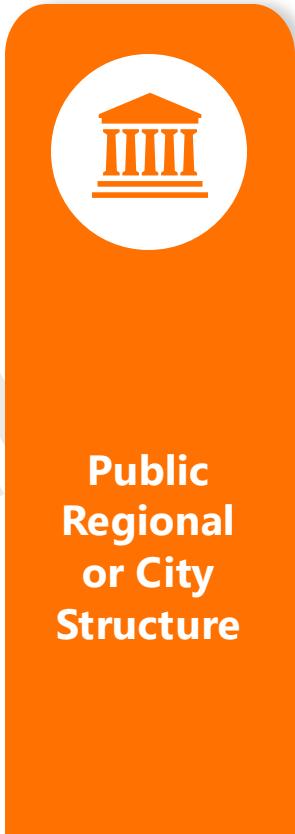
*Source: UNaLAB Handbook

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Why LLs need a Governance Model



Different Types of Host Organization



Importance of a Host Organisation in a Living Lab

ROLE OF THE HOST ORGANISATION

Central coordinating entity, orchestrating activities.

Provides necessary infrastructure, resources, and leadership.

Ensures efficient operation and attainment of objectives.

Acts as a neutral party fostering collaboration among stakeholders.

IMPORTANCE OF SELECTING THE RIGHT HOST ORGANISATION

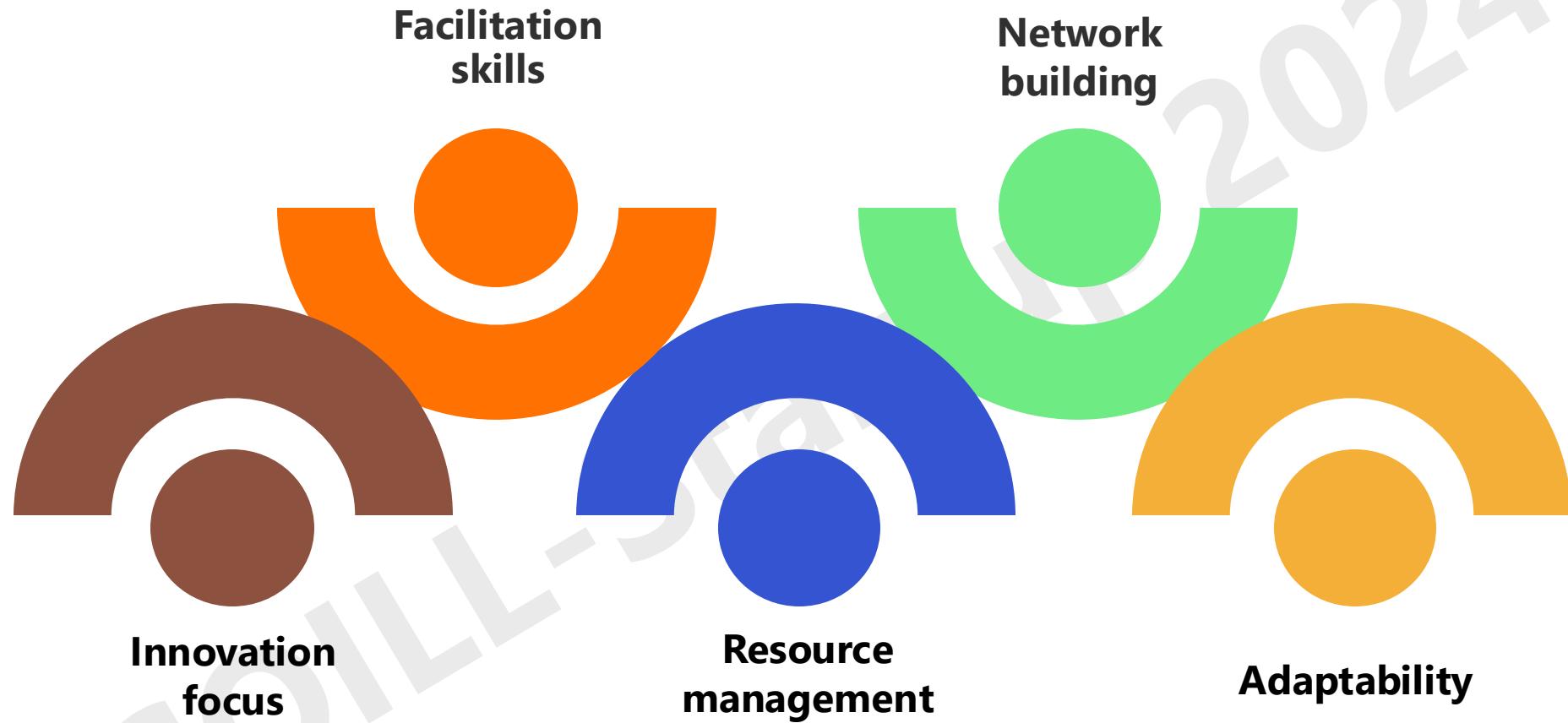
Crucial for success and sustainability of the Living Lab.

Must effectively coordinate activities, foster collaboration, and support innovation.

Provides infrastructure, resources, and leadership to drive initiatives forward.

The LL branch should be contributing to its vision and mission.

Key Traits and Skills for a Host Organisation



Questions to Ask When Identifying a Host Organisation

- How has the organisation demonstrated its commitment to Open Innovation?
- What experience does the organisation have in facilitating multi-stakeholder projects?
- How effectively does the organisation manage resources like space, equipment, and funding?
- How robust is the organisation's network with relevant stakeholders?
- How has the organisation adapted to changes and managed feedback in previous projects?

Different types of governance models

Aspect	Hierarchical Governance	Collaborative Governance	Networked Governance	Decentralized Governance	Market-Based Governance
Decision-making Authority	Centralized at the top	Shared among stakeholders	Distributed across network	Decentralized to units/entities	Driven by market forces
Stakeholder Collaboration	Limited, top-down	Extensive collaboration	Collaboration across organizations	Participatory, local involvement	Limited, based on market interactions
Communication Flow	Top-down	Multi-directional	Multi-directional	Multi-directional	Market-driven
Governance Structures	Formal hierarchy	Steering committees, advisory boards	Partnerships, alliances	Tailored structures for local contexts	N/A
Coordination Mechanisms	Hierarchical structures	Regular meetings, digital platforms	Joint planning sessions, regular meetings	Coordination at regional/international levels	N/A
Autonomy and Flexibility	Limited autonomy	Shared decision-making, flexibility	Distributed autonomy, flexibility	High autonomy, flexibility	N/A
Decision-making Processes	Centralized, formal processes	Consensus-building, transparent processes	Collaborative decision-making	Participatory processes at local level	N/A
Focus on Efficiency	Yes	Yes	Yes	Yes	Yes

Developing a LL governance model

01

Participants

Who are the participants?

- Identifying central stakeholders contributing to the Living Lab activities and their specific roles

02

Payments

Who is paying or contributing?

- What is the budget?
- How will the experiments be financed?
- In-kind contributions?

03

Decisions

How are decisions taken?

- Define how the supporting structures should be designed (e.g. who handles it, who has responsibility to engage with stakeholders, who can write and sign contracts, etc...)
- Day-by-day activities
- Project implementation

04

Communication

What is the communications strategy?

- Define Internal & external communication

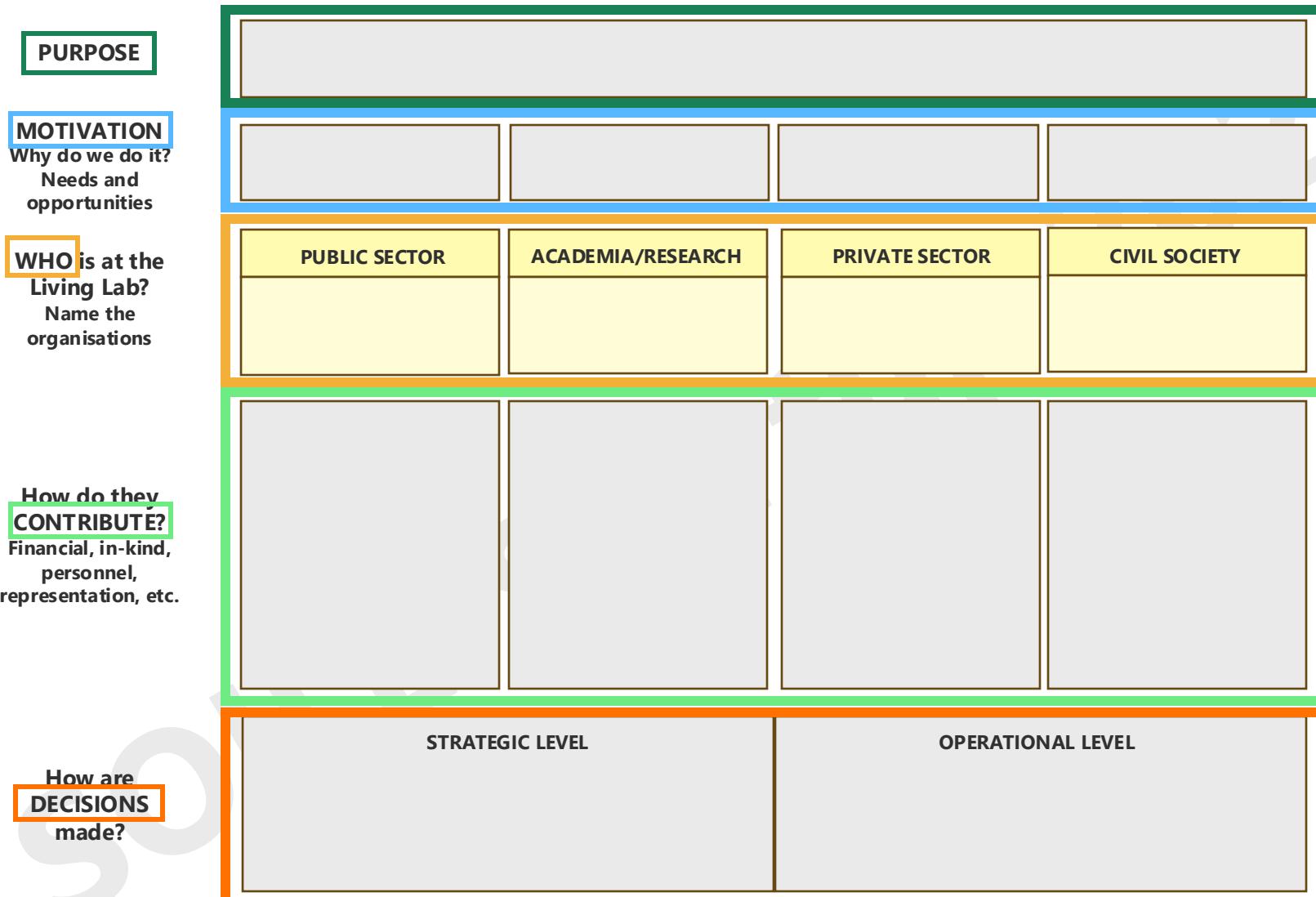
05

Benefit

What does each participant get?

- Money
- Social impact
- Prototypes, products services, intellectual property

Governance models Canvas



Adapted from Virtual Learning Lab, ©Fernando Villariño, Library Living Lab – CVC-ENoLL

Business Models in Living Labs



What is a business model?

It is a set of decisions that define...

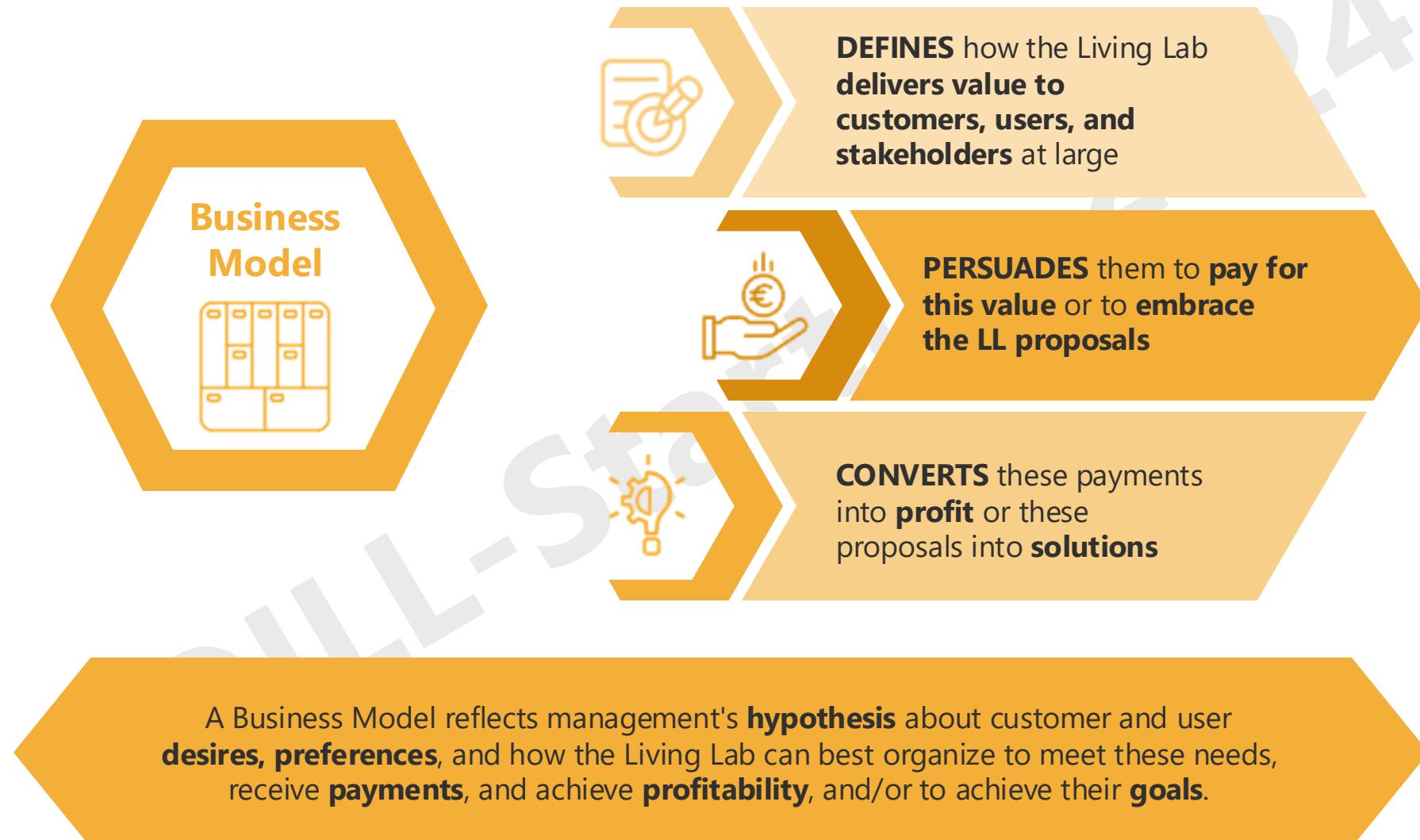


What you will **offer**, to
whom, and **why**



How you will **organise**
yourself to do this in a
financially viable manner

Business models of Living Labs



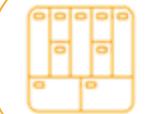
Business Plan and Business Model

Rigid and detail-specific strategies and tactics

Useful for outlining detailed operational and financial strategies

Less adaptable to changing circumstances and unique environments of LLs and LHs.

BUSINESS PLAN



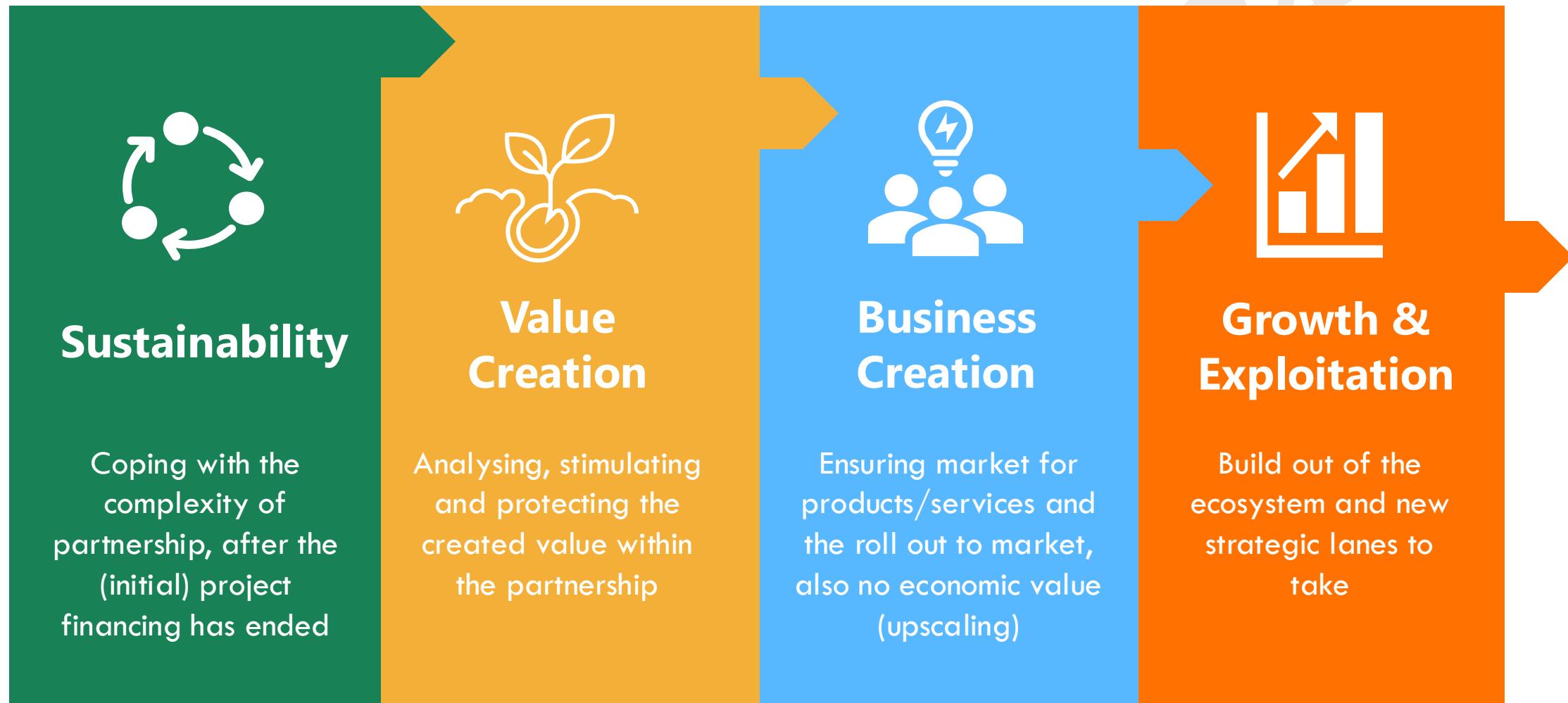
BUSINESS MODEL

Flexible conceptual frameworks that evolve with changing conditions

Allow LLs and LHs to respond to new opportunities and challenges, fostering innovation, strategic agility, and long-term sustainability.



Why business modelling?



What does a BM capture?

Assumptions about user behaviour and priorities

A Living Labs setting widens the scope to include the full set of stakeholders from the Quadruple Helix.

Configuration

Partner resources, and responsibilities allocation among partners in the system.



Selection of target groups and value proposition

Definition, scoping and differentiation of products and services.

Value capture model

In a Living Lab setting, the collaboration of stakeholders in the value network is a necessity to capture value.

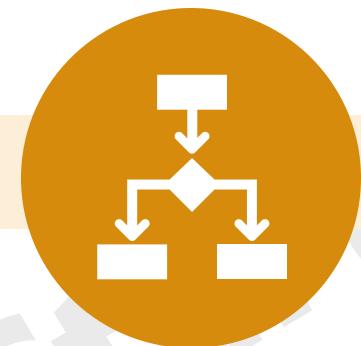
Phases of business modelling

Initialisation and preparation



In this phase, establishing partnerships to expand the regional network and develop a business plan is essential for ensuring the long-term viability of the Living Lab. These initial steps lay the groundwork for future business development.

Living Lab operation



This phase focuses on providing user-centric innovation services to facilitate new business development. Establishing relationships among Living Labs in a network can leverage economies of scale and scope, tapping into larger user communities and complementary innovation services.

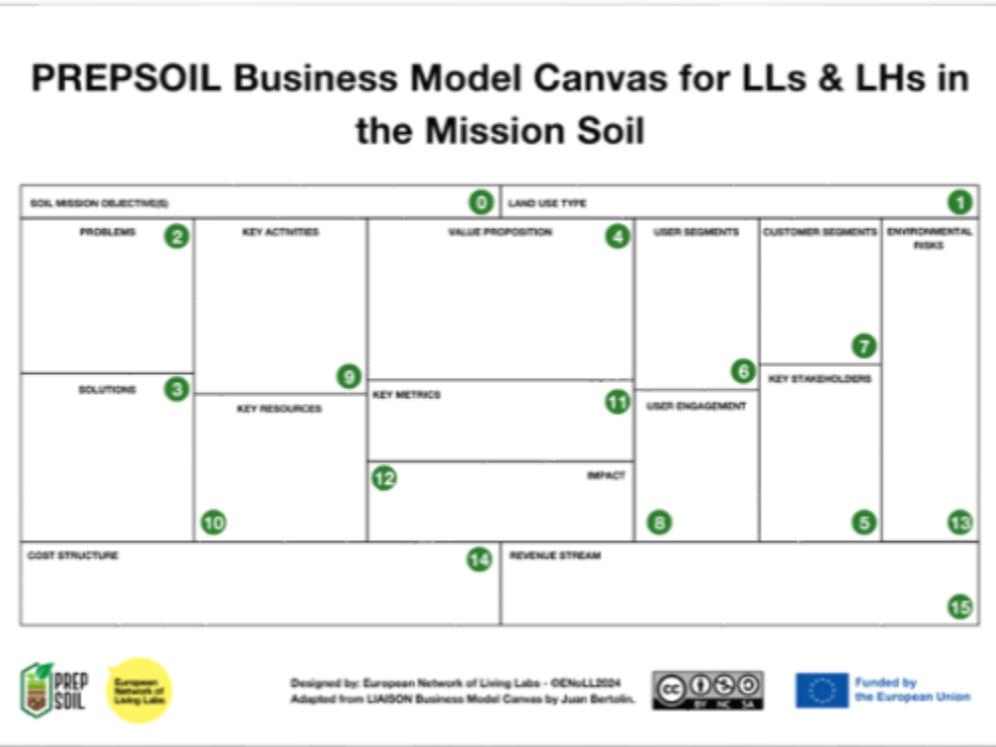
Upscaling and commercialisation



This phase embeds the Living Lab into the international innovation system. Strategies to capitalize on network effects will become more mature.

Business Model Canvas & SOILL Training

PREPSOIL Business Model Canvas for LLs and LHs in the Mission Soil



PREPSOIL - Business Model Canvas for Soil Living Labs and Lighthouses: <https://zenodo.org/records/12819107>



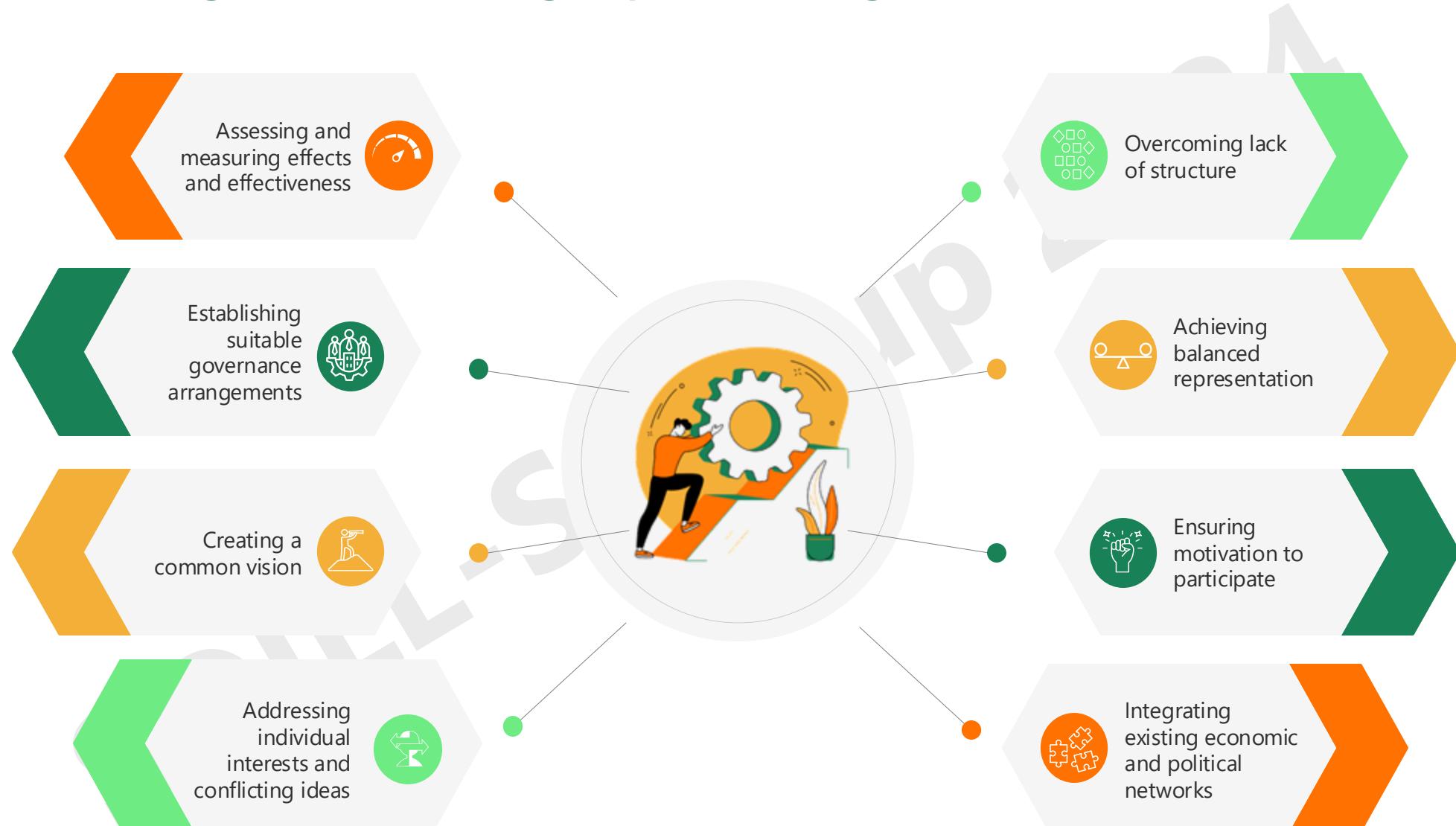
Joint upcoming training



Final considerations



Challenges in setting up a Living Lab



Living Labs pitfalls and challenges

Theoretical & methodological challenges

for Living Labs working in academia

- Lack of comparative/cross-cultural & quantitative studies
- New data collection and analysis methods in real-life setting
- Integrating social & technical aspects of LL activities
- Scalability of the results

Governance & Process-related challenges

- Multi-business collaboration and the issue of openness
- Visibility and dissemination of the LL activities
- Flexibility and fast changing requirements
- Financial & technical challenges

Actors Motivations, Needs and Expectations

- Building commitment with stakeholders
- Identifying relevant parties and contacts
- Ensuring continuous and active participation

Ethical Challenges

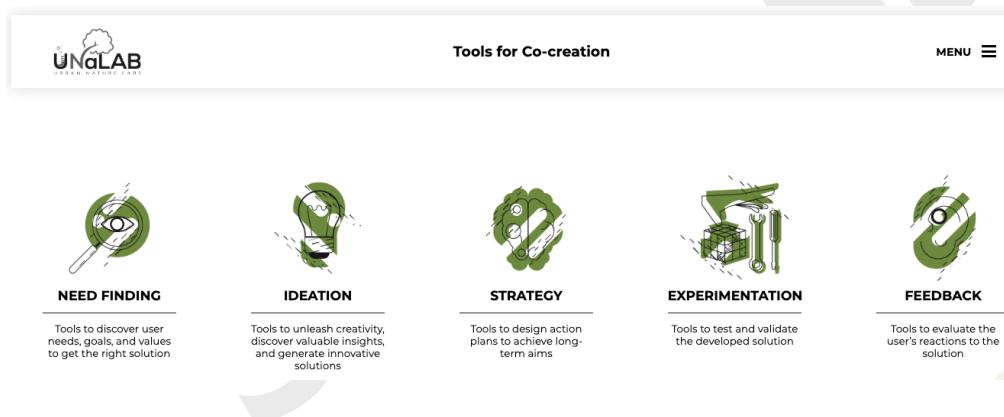
- Informed Consent
- Unwitting participation
- Privacy and use of participants data

How to avoid pitfalls?

Do not reinvent the wheel!



- Living Lab methodology handbooks
- Co-creation toolkits
- Start from existing communities
- Build on project results
- Attend dedicated trainings
- Learn from existing successful living labs!



**SISCODE TOOLBOX
FOR CO-CREATION
JOURNEYS**





Some tools to help you along the way...

Define Vision,
Mission, and
purpose



Define the Value
Proposition



Stakeholders'
identification



Develop a
Governance
model



Design a Business
model



SWOT
analysis

Solutions
(products/services)
identification

Stakeholder
mapping into the
quadruple helix

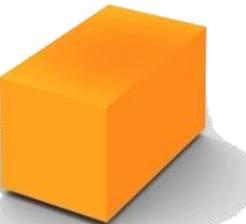
Customers, users,
stakeholders'
mapping &
identification

Governance
Model Canvas

Business Model
Canvas

Business Plans

Q&A



Now it's time for you... ...to write up your LL!



Further readings & references (i)



- Mission Soil - https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/eu-missions-horizon-europe/soil-deal-europe_en
- Mission Soil Implementation Plan - https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/eu-missions-horizon-europe/soil-deal-europe_en#:~:text=Mission%20implementation%20plan
- Foresight report Mission Soil - https://research-and-innovation.ec.europa.eu/document/download/06a2fe99-402a-43d0-ac23-d11134578147_en
- Mission Soil Platform - <https://mission-soil-platform.ec.europa.eu/>
- 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>
- ILVO collaboration platform - www.llaebio.be
- UNaLAB Handbook - <https://unalab.eu/en/documents/urban-living-lab-handbook>
- UNaLAB – Tools for co-creation - <https://unalab.enoll.org>
- SISCODE Toolbox for co-creation Journeys - <https://siscodeproject.eu/wp-content/uploads/2019/09/toolkit-27092019-1.pdf>
- SCORE webinars: Living Lab Integrative Process -
<https://www.youtube.com/watch?v=dhNPNVSbacA&list=PLUoJeHsSUIVHIOFwTpEymBD1X4mSB-0kL>

Further readings & references (ii)



- **3-layered model** - © Dr. Dimitri Schuurman, imec – Ugent
<https://biblio.ugent.be/publication/5931264/file/5931265.pdf>
- **Quadruple Helix** - Carayannis, Elias & Campbell, David. (2009). 'Mode 3' and 'Quadruple Helix': Toward a 21st century fractal innovation ecosystem. International Journal of Technology Management - INT J TECHNOL MANAGE. 46. <https://doi.org/10.1504/IJTM.2009.023374> .
- **Quintuple Helix** - Carayannis, E.G., Barth, T.D. & Campbell, D.F. The Quintuple Helix innovation model: global warming as a challenge and driver for innovation. J Innov Entrep 1, 2 (2012). <https://doi.org/10.1186/2192-5372-1-2>
- **Harmonized evaluation framework (ENoLL)** - 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 IISPIM Innovation Conference. <https://doi.org/10.5281/zenodo.11581077>

PROJECTS



<https://www.soill2030.eu> <https://nati00ns.eu>



<http://prepsoil.eu>

What's next?



Please help us improve & share your honest feedback with us!!



Slides will be shared with all registrants & SHLLs contacts after the training



Recordings will be available on a private YouTube link



1h Q&A session (Jan 2025) for those watching the training through recordings
Q&A document will be shared with you all



Save the dates shared soon for the upcoming trainings.....

What other trainings are available?



SHLL Principles, Setup, and Tools



SHLL Monitoring & Evaluation



Stakeholder engagement & co-creation



Soil Literacy & Knowledge



SHLL Stability & Business Models





Thank you

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