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National engagement event

9. May 2023

- The Mission explained
- Soil Health Living Labs and Lighthouses
- Thematic focus of the 2023 Living Lab calls
- Engagement session



Funded by
the European Union

Please be aware:



- We will share the **participant list** with names, institutions and e-mail addresses with participants only, for information and further networking.



- We will take **photos** during the event for communication and dissemination purposes of the NATI00NS project. If you find yourself in a picture you would like us to remove, please send an email to info@nati00ns.eu



- If you have given your **consent** during registration to receive updates from NATI00NS and/or to receive information from other initiatives related to the EU Soil Mission, you have the **right to withdraw your consent** - by email to info@nati00ns.eu



- This is a hybrid event with an online component. The **Zoom Meeting will be recorded.**



Soil Health Living Labs and Lighthouses



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.”

- **User-centred**, place-based and transdisciplinary
- **Multi-stakeholder**: Involve all relevant partners in co-design, testing, monitoring and evaluation of solutions,
- Use of **real-life** settings to accelerate adoption.
- Contain **several sites** (e.g. farms, forest exploitations, city parks) at **regional** or **sub-regional** level.

Soil Health Lighthouses

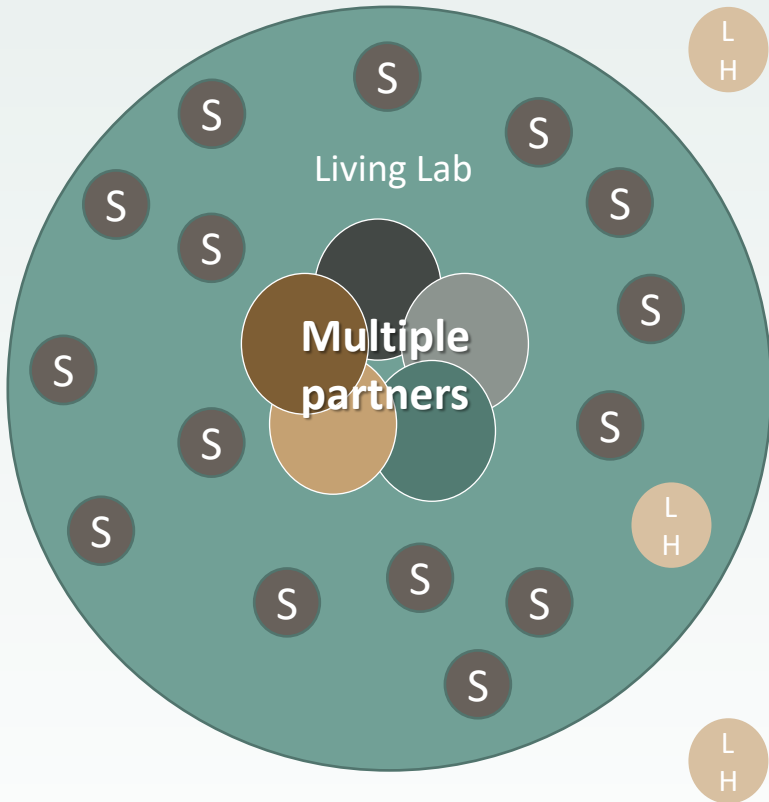


Individual sites of exemplary performance

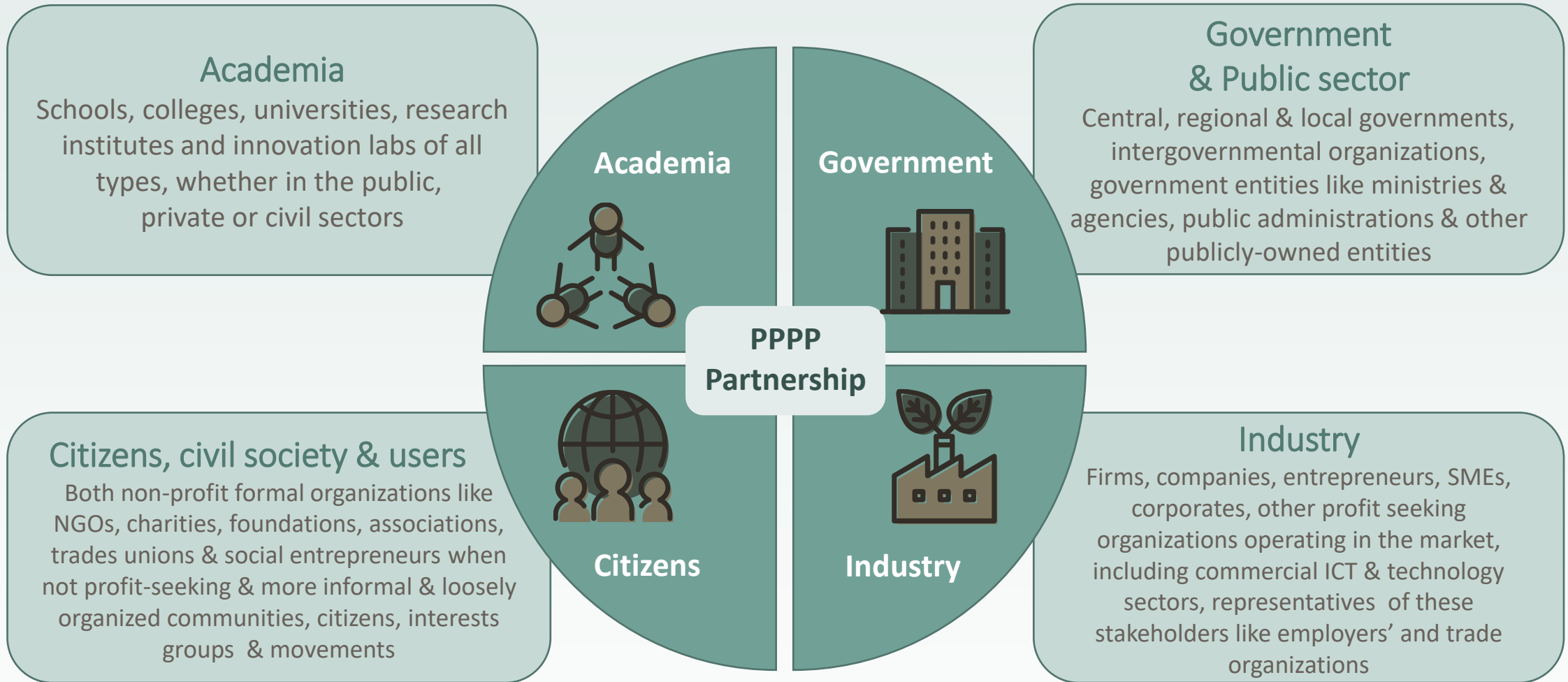
“Places for demonstration of solutions, training and communication that are exemplary in their performance in terms of soil health improvement”

- 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.

* This LL definition is customised for soil health LL and is provided within the “[A Soil Deal for Europe – Implementation Plan](#)”. It aggregates elements of **ENOLL definition** with those of a WG of the G20 agricultural chief scientists on agroecological living labs.



	Scale	Activities	Performance in soil health improvement
Living Lab	Regional/ subregional landscape	Coordinate experimentations & partners	In progress at landscape scale
Living Lab experimentation site	Local (one farm/forest, one urban site, etc)	Co-create knowledge and innovations	In progress on the site
Lighthouse	Local (one farm/forest, one urban site)	Experiment and/or demonstrate	Demonstrated high performance



Living Labs*

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

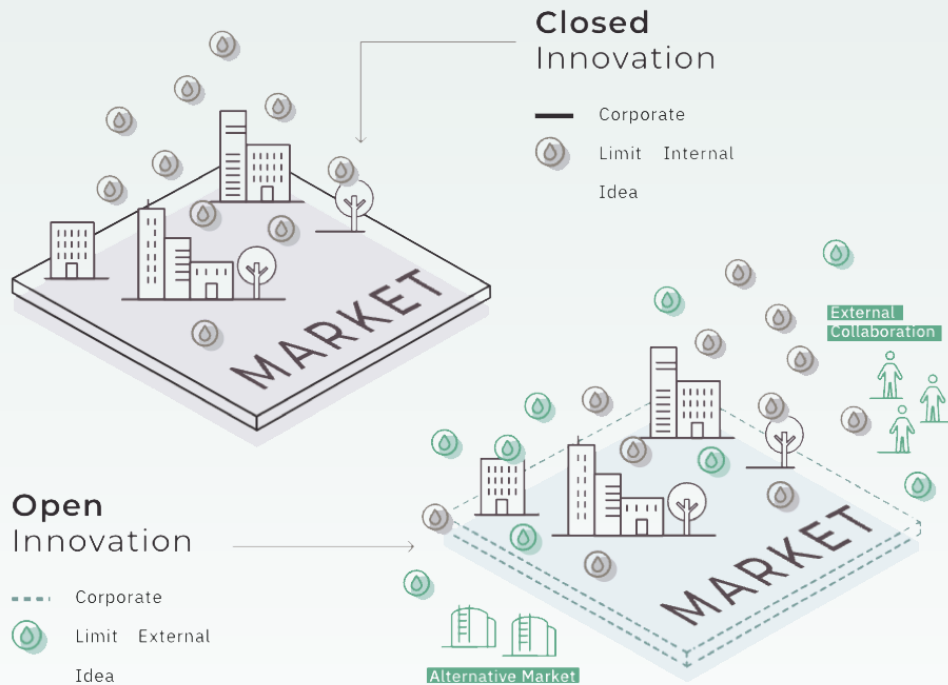
- Multiple **disciplines** (-> transdisciplinary, inc. social sciences), **methods, dimensions** (technical, economic, social)
- **Place-based** approach and **real-life context** = real farms/forest/urban sites
- **Robust scientific setup** for **ecosystem assessment**
- **Openness**, communication,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

Lighthouses

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

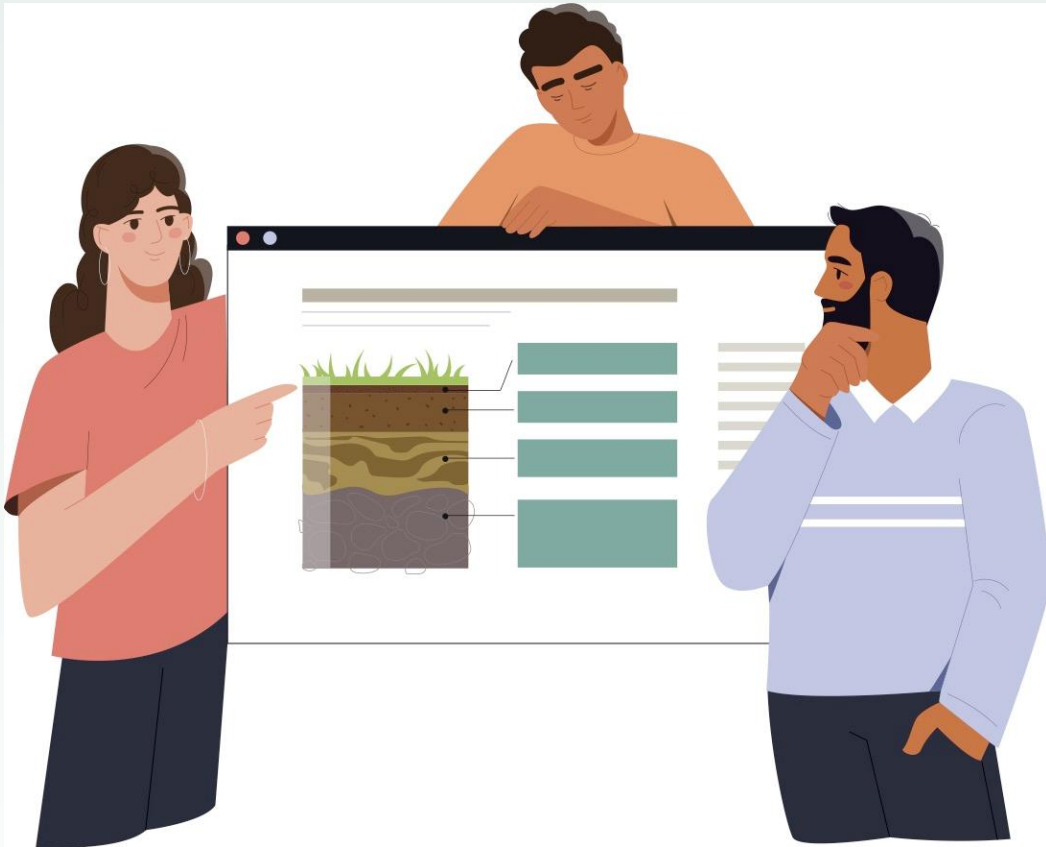


- Complex challenges cannot be solved by single stakeholders
- Lack of trust between stakeholders
- Different language
- Different approach (solution driven to problem driven)
- Different goals (solution for practice vs publishable results)
- Practical solutions from one farm are not widespread
- Practical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



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
- ... find faster, more evaluated (from different perspectives) and therefore easier scalable solutions
- ...



Operation

- Experience
- Commitment
- Openness
- Communication

Users

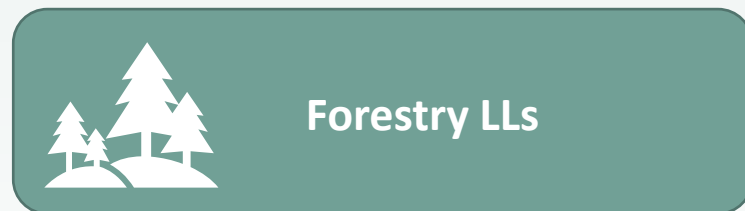
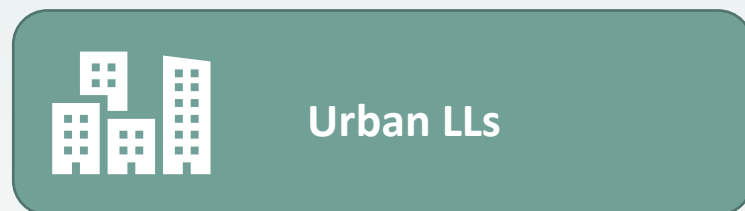
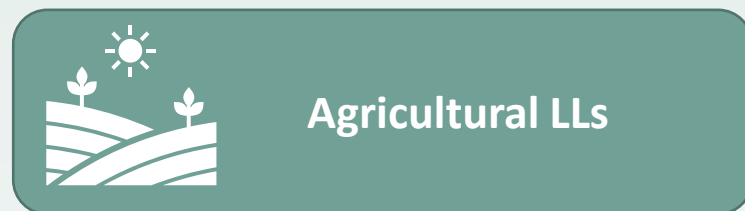
- User engagement
- User-driven
- Co-created
- Values
- Reality

Organisation

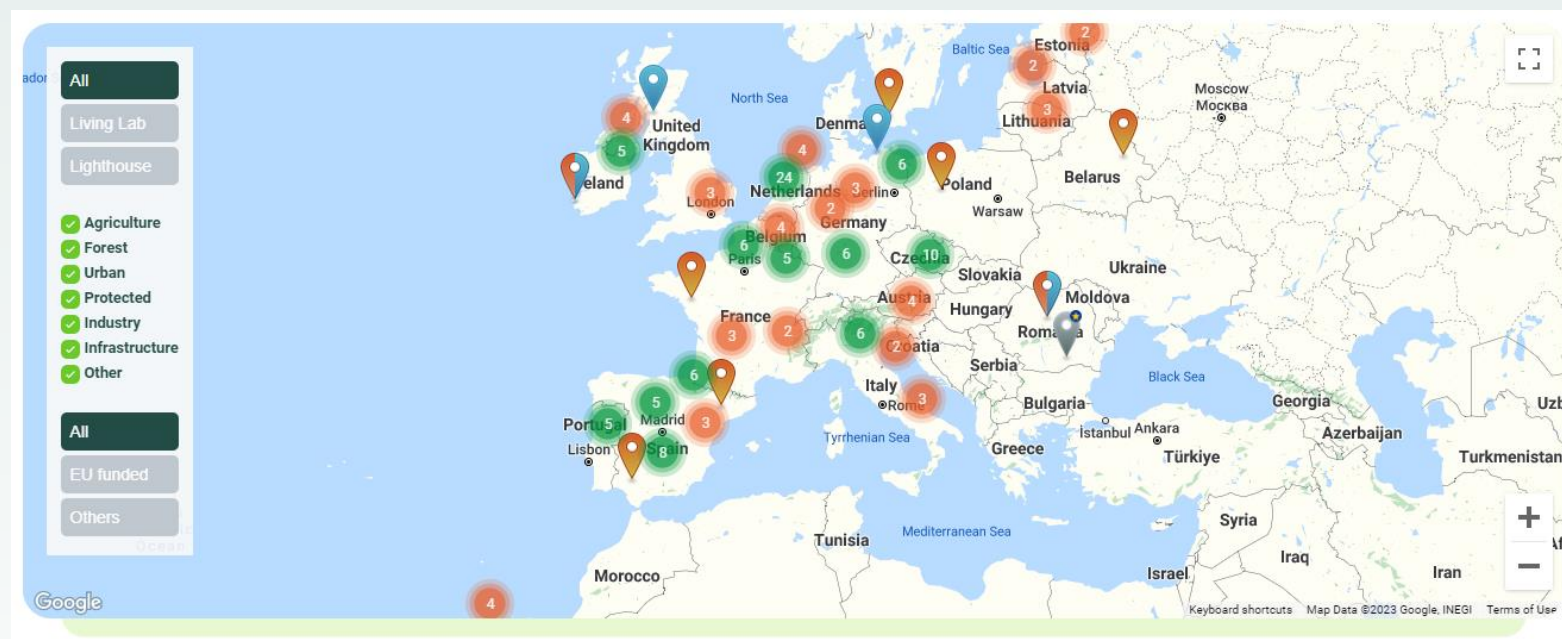
- Partnerships
- Management
- Governance
- Infrastructure

Business Model

- Innovation ecosystems
- Lifecycle approach
- Value chain coverage
- Business models



<https://prepsoil.eu/living-labs-and-lighthouses/map>



The Living Labs shown on the map do not necessarily fulfil the criteria for the selection and set-up of living labs in the context of the Soil Health Mission presented in the Mission Implementation Plan. A re-assessment of the listed living labs according to Mission criteria will be carried out by ENoLL as of mid-2023.



PA4ALL has been established as a meeting place for all the relevant stakeholders. This is the first LL in Serbia and one of the first in Europe to focus on precision agriculture. PA4ALL based its activities on educating its community on precision agriculture, motivating end-users to test and validate the IT innovations and ensuring their adoption among various stakeholders.

PA4ALL - Precision Agriculture for All

BioSense Institute

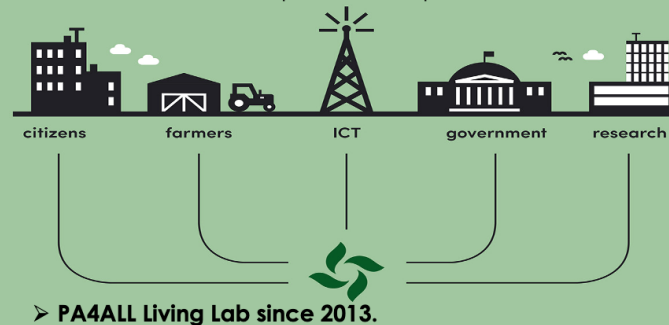
Country: Serbia

Area: Agriculture & (Agri-)Food, Circular Economy, Education/Vocational Training; Environment/Climate change

Website: <https://biosens.rs/>

BioSense

- R&D institute for Information Technology in Biosystems
- Public institute – First public start-up



Digital village

Digital transformation of agriculture & community
[YouTube video](#)

LALA robotic platform – on farm laboratory

On-farm soil sample & analysis
[YouTube video](#)





The ÖMKi On-Farm Living Lab is an agroecology-focused nationwide participatory experimentation network which includes a variety of field trials and technology tests co-designed and co-implemented with farmers in Hungary, with the aim to promote agro-ecological transition. Through the national network, ÖMKi tests how newly released sustainable and organic technologies, products and practices perform in diverse, everyday farming.

ÖMKi On-farm Living Lab

Hungarian Research Institute of Organic Agriculture

Country: Hungary

Area: Agriculture & (Agri-)Food

Website: <https://biokutatas.hu/en>

Email: info@biokutatas.hu



<https://biokutatas.hu/en/page/show/onfarm>



<https://www.youtube.com/watch?v=zn75i1luf3o&t=9s>



**KRAKOW
TECHNOLOGY
PARK**

The Kraków Technology Park (KPT) is the most complete one-stop-shop for business operating in Poland. They have a full toolbox at their disposal to let clients develop better and faster. The ecosystem they have built consists of about 350 enterprises, which they help day after day to build the best conditions for the development of their companies and increase in sales. KPT's portfolio of initiatives includes several Green Projects.

The Kraków Technology Park

Country: Poland

Areas: Green and digital transformation, Artificial Intelligence, Data Analytics and Simulation, etc.

Website: <https://www.kpt.krakow.pl>

Email: biuro@kpt.krakow.pl



Microparks



Participatory Design of Green Spaces



Torino City Lab (TCL) is an initiative aimed at creating more accessible conditions for companies and other interested parties to respond to specific open challenges in response to concrete needs of the territory, the public administration and its citizens. TCL enables the testing of innovative solutions or business ideas in real-world conditions in the territory.

Recently Torino City Lab (TCL) relaunched itself with the smart life paradigm and with the aim of contributing to the ecological and digital transition of the territory and services to citizens. This reflects the City commitment for keeping climate neutrality by 2030. TCL involves a large number of local and international partners of the public and private sector, and all stakeholders interested in supporting and making the local innovation ecosystem network grow.

Torino City Lab

Country: Italy

Area: New regenerated soil, community-based urban farms and gardens, accessible green corridors, etc (EUSO OBJ 3,6,& 8)

Website: <https://www.torinocitylab.it/en/>

Email: torinocitylab@comune.torino.it



Orti Generali urban gardens



New soil along the banks of Sangone stream

Forlì, area in front the museum complex of San Domenico



Save Our Soil for LIFE is a demonstration project funded under the LIFE programme «Environment and Resource Efficiency» which aims to contribute to the

implementation on a municipal scale of European guidelines on soil protection and urban regeneration. The activity consists in de-sealing and de-paving a green area of approx. 6,500 m² waterproofed and currently intended for public parking, through:

- the removal of flooring and existing structures up to the underlying permeable layer;
- the restoration of the area by backfilling of soil and topsoil;
- creation of itineraries cycle-pedestrian and underground utilities.

S.O.S. 4 LIFE - Save Our Soil for LIFE

Country: Italy

Type: De-sealing & de-paving soils

Area: urban regeneration, green urban areas (EUSO OBJ 3,6, &8)

Website: <https://www.sos4life.it/>

Email: stefano.bazzocchi@comune.forli.fc.it





Thematic focus of the 2023 Living Lab calls

Disclaimer

Information provided herewith are of the NATI00NS consortium.

The sole official source of reference shall remain the [2023-2024 Mission Work Programme](#), officially published by the European Commission January 2023.



Soil health (0108)

*HORIZON-MISS-2023-SOIL-01-08:
Co-creating solutions for soil health in
Living Labs*

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-miss-2023-soil-01-08>

Carbon farming (0109)

*HORIZON-MISS-2023-SOIL-01-09:
Carbon farming in living labs*

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-miss-2023-soil-01-09>

- Deadline for applications: 20 September 2023 17:00:00 Brussels time
- Single-stage submission via the Funding & Tenders Portal;
- Research and Innovation Actions: 100% funding for any actor
- **4-5 Living Labs** for each application **in at least three** different Member States and/or Associated Countries.

Soil health (0108)

HORIZON-MISS-2023-SOIL-01-08:

Co-creating solutions for soil health in Living Labs

- 36 M€ funding
- Expect 3 applications funded

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

Carbon farming (0109)

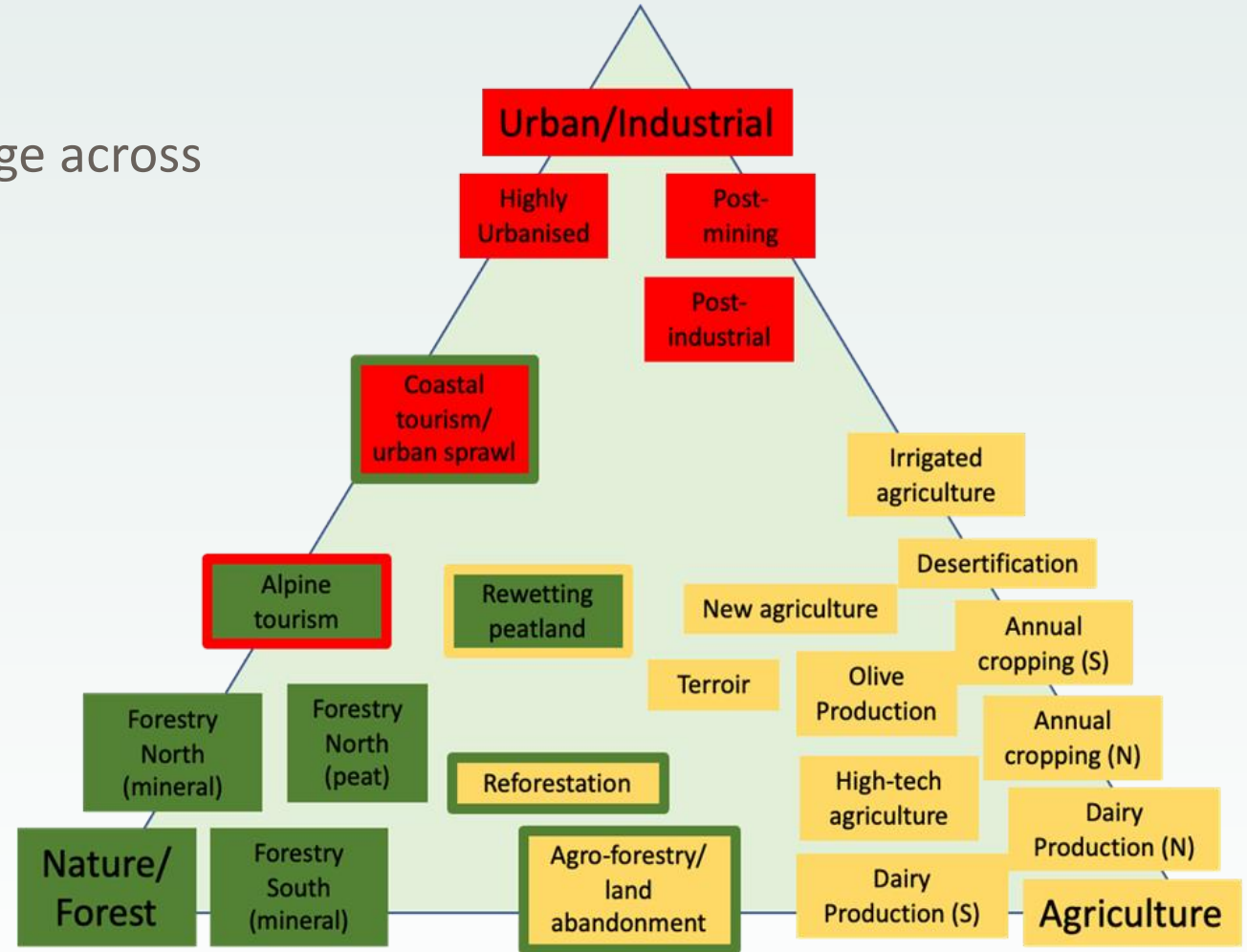
HORIZON-MISS-2023-SOIL-01-

09: Carbon farming in living labs

- 12 M€ funding
- Expect 1 application funded

Aim of PREPSOIL Project

Synthesize soil needs and drivers of change across 21 EU-representative regions



Regional soil needs

- Different regions have different soil challenges and different research needs. For example, salinisation; contamination; structure (in blue)
- Some soil challenges are relevant across regions, such as soil organic carbon (in yellow)

Soil challenge	Research need
Very important	Very important
Important	Very important
Very important	Important
Important	Important
Other	Other

		SOC	N ₂ O/CH ₄	Peat degradation	Soil erosion	Soil sealing	Salinisation	Contamination	Structure	Biodiversity	Nutrient retention	Water storage capacity
Central	AT (Continental)	Dark Brown	Dark Brown	White	White	White	White	White	White	Dark Brown	Light Blue	Dark Brown
	CZ (Alpine South)	Dark Brown	Dark Brown	White	Light Blue	Dark Brown	White	Light Brown	White	Dark Brown	Light Brown	Light Blue
	DE (Atlantic North)	Light Blue	White	White	White	Light Brown	White	White	Light Brown	Light Blue	White	Light Brown
	HU (Pannonian-Pontic)	Light Blue	Light Blue	Dark Brown	Light Brown	White	White	Dark Brown	Dark Brown	White	Light Blue	Light Blue
	PL (Continental)	Dark Brown	Light Brown	Light Brown	Light Brown	White	White	White	Light Brown	Dark Brown	Light Brown	Light Brown
	SK (Continental)	Light Blue	Light Brown	Light Brown	Light Blue	White	Light Brown	Dark Brown	Light Blue	Light Brown	Light Blue	Light Blue
	SI (Alpine South)	Light Blue	Light Brown	White	Light Blue	Light Blue	White	Light Brown	Dark Brown	Light Blue	Light Blue	Light Blue
CH (Continental)	Light Blue	Light Brown	Light Brown	Dark Brown	White	White	Light Brown	Dark Brown	Light Blue	White	Light Brown	
North	DK (Atlantic North)	Light Blue	Light Blue	Light Blue	White	White	White	White	Dark Brown	Light Blue	Dark Brown	White
	FI (Boreal)	Light Blue	Light Blue	Dark Brown	Light Brown	White	White	White	Light Brown	Light Blue	Dark Brown	Light Blue
	LV (Nemoral)	Light Blue	Light Blue	White	White	White	White	White	White	Dark Brown	Light Blue	Light Blue
	LT (Nemoral)	Light Blue	Light Brown	White	Light Brown	Light Brown	White	Light Brown	Light Blue	Light Brown	Light Blue	Light Blue
	NO (Boreal)	Light Blue	Light Brown	White	White	White	White	White	Dark Brown	Light Blue	Light Brown	Light Blue
SE (Nemoral)	Light Brown	White	White	White	White	White	White	Light Blue	Light Brown	White	White	
South	IT (Mediterranean North)	Light Blue	Light Brown	White	Light Blue	Light Blue	Light Blue	Light Blue	Dark Brown	Light Blue	Light Brown	Light Blue
	PT (Lusitanian)	Light Blue	Light Blue	Light Brown	Light Blue	Light Brown	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
	TU (Anatolian)	Light Blue	Light Brown	Light Blue	Light Blue	Light Blue	Light Blue	Dark Brown	Light Brown	Light Blue	Dark Brown	Light Blue
West	BE (F) (Atlantic Central)	Light Blue	Light Brown	White	White	White	White	White	Light Brown	Light Brown	Light Brown	Light Blue
	BE (W) (Atlantic Central)	Light Blue	Light Brown	White	Dark Brown	Light Brown	White	White	Light Brown	Light Blue	Light Brown	Light Brown
	FR (Atlantic Central)	Light Blue	Light Blue	White	Dark Brown	Dark Brown	White	Dark Brown	Light Brown	Light Blue	Light Brown	Light Blue
	IE (Atlantic Central)	Light Blue	Light Blue	Light Blue	Light Brown	Light Brown	Light Brown	White	Light Blue	Light Blue	Light Blue	Light Blue
	NL (Atlantic North)	Light Blue	White	Light Blue	White	White	White	White	Light Blue	Light Blue	Light Brown	Light Blue
	UK (Atlantic North)	Light Brown	Light Blue	Dark Brown	Light Brown	White	White	White	Light Blue	Light Blue	Light Blue	Dark Brown



The project



Funded by
the European Union

	Engagement events	Inform, engage & promote. 43 countries (EU MS + AC), national language
	Matchmaking – national	Facilitate creation of local LL. Online and along engagement events
	Factsheets & E-learning	Inform & train. LL, open call, types of LL peculiarity
	Helpdesk & FAQ	Support. Online, addressing all questions on LL creation
	Webinars LL methodology	Train. How to set up, develop and enlarge a LL.
	Coaching	Support. Available in local language, appointed mentors.
	Thematic events & webinars	Inform, train & engage. Different themes for specific land uses.
	Matchmaking – International & thematic	Facilitate creation of partnerships of LLs. Online and along thematic events



Individual Coaching Sessions

For confidential, individual coaching sessions, please contact: Dr. Karel Klem and Dr. Martin Mistr. <https://nati00ns.eu/mentors>



Matchmaking Sessions

- Matchmaking tool for applicants in the creation of transnational consortia: <https://nati00ns.eu/matchmaking-opportunities>



Capacity-Building Webinars:

- How to set-up a Living Lab, 23 February 2023 Register: <https://www.nati00ns.eu/events>, choose Webinars



Thematic Events

- Industrial soil focus in creation of LL, planned for February 2024 <https://www.nati00ns.eu/events>, choose Thematic events



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

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