European Network of Living Labs

2022 Activity Report

A review of the activities of the European Network of Living Labs for the year 2022

Activity report 2022

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This report is a compilation of activities of the network for the year 2022.

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Foreword

Dear Members and Friends,

We are delighted to present to you the Annual Report of 2022, which marks a significant milestone for our association. We celebrated 15 years of successful operations, during which we have grown tremendously and have labelled more than 480 Living Labs from across the globe. Our network now expands over the 5 continents, and our 160 active members represent 35 countries.

Within the 15+ years, ENoLL has built tremendous expertise in the area of co-creation and action-research methods for multi-stake holder user-centric innovation, and thus is placed in an excellent position to explore emerging approaches in Special Interest Groups. We have created Action-Oriented Task Forces (AOTFs) and Working Groups, aligning members along their lines of interest and work, which have already produced various successful results of collaboration.

Our capacity building program is also an essential element of our work, which we have celebrated 5 years of. We provide publicly accessible materials for the wider Living Lab community, in addition to trainings to the aspiring Living Labs. In 2022, we have run trainings with 10 coastal cities Living Labs, 3 Living Labs working on Positive Energy Neighborhoods, 4 regions which are implementing Transition Super Labs, and working with 10 European cities aiming to increase the health and well-being of citizens through the Living Lab approach. On top of that we organized two very successful editions of the Virtual Learning Lab, with the participation of more than 60 participants.

Lastly, ENoLL has been actively participating in high-level events to highlight the role and importance of Living Labs in society. Some of the events include the High-Level Conference on Civic Engagement in EU Missions organized by the Ministry of Higher Education, Research, and Innovation within the scope of the French Presidency and a series of events organized at the Science Forum at the 77th Session of the United Nations General Assembly, the EXPO in Dubai, and several sessions of the Zero Pollution Stakeholders Platform.

We would like to thank all our members, partners, and friends for their support and commitment to advancing the Living Lab approach. With your continued engagement, we can further strengthen our network and drive innovation for a better future.

Best regards,

Evdokimos Kostantinidis, Chairman
&
Martina Desole, Director

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15 years of ENoLL

The European Network of Living Labs (ENoLL) is the international federation of benchmarked Living Labs in Europe and worldwide. Founded in November 2006 under the auspices of the Finnish European Presidency, the network has grown in 'waves' up to this day.

The year 2022 was a significant milestone for our association which celebrated 15 years of successful operations. Since the establishment, the network has grown tremendously and has labelled more than 460 Living Labs from across the globe. Currently our network expands over the 5 continents and our 151 active members represent 35 countries. Within the 15+ years ENoLL has built tremendous expertise in the area of co-creation and action-research methods for multi-stake holder user centric innovation, and thus is placed in an excellent position to explore emerging approaches in Special Interest Groups. For this reason, Action-Oriented Task Forces (AOTFs) and Working Groups were created, aligning members along their lines of interest and work.

These include:
- AOTF Social Innovation and Digital Rights
- AOTF Social Impact of Artificial Intelligence
- AOTF Rural Living Labs
- AOTF Health and Wellbeing
- AOTF Energy and Environment
- Joint Working Group with Joint Research Centre on Living Labs as Regulatory Learning Tools
- Working Group Agriculture and Agrifood
- Working Group Culture & Creativity
- Working Group Mobility
- Working Group Digital Sustainability (for zero pollution).

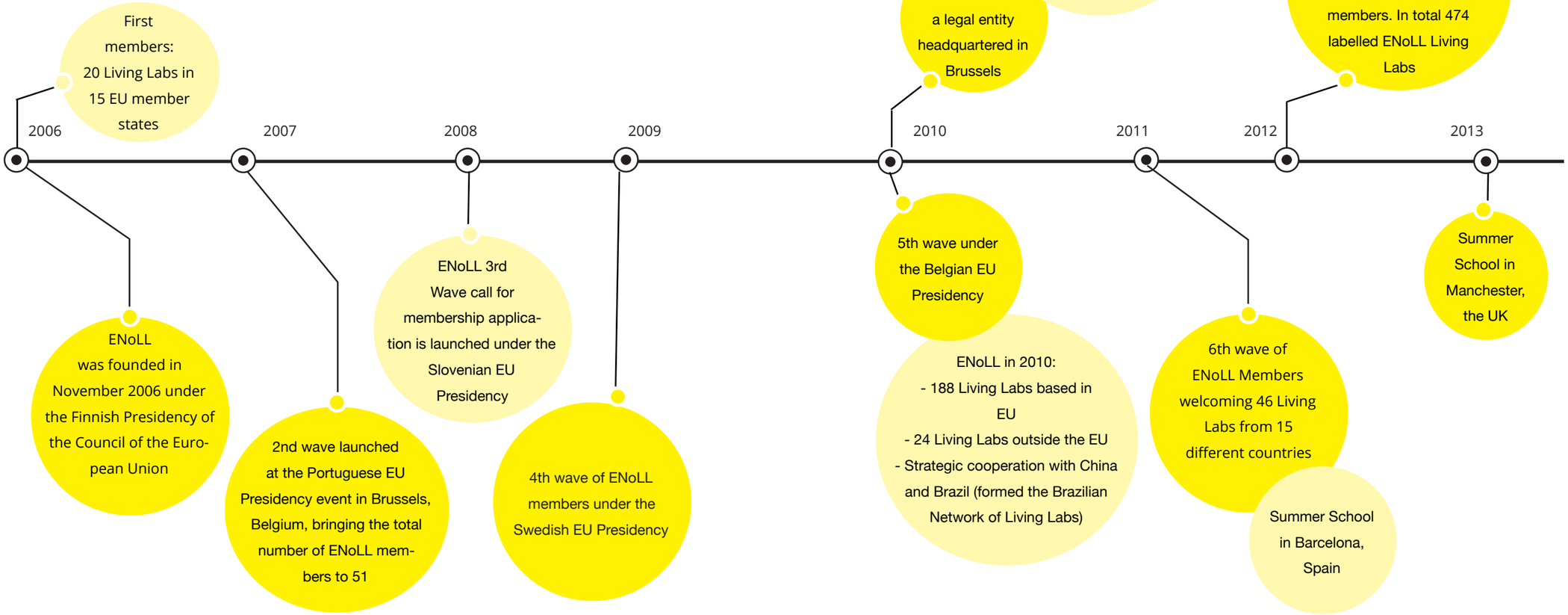
The AOTFs and Working Groups have already produced various successful results of collaboration, which is seen through the harmonizing initiatives taken by the Health and Wellbeing AOTF, the Policy Brief on "Regulatory learning in experimentation spaces" by the regulatory learning working group, successful initiation of collaborative projects such as VITALISE, OpenLab, DT4REGIONS and others. The AOTF leads have also been active in expanding the Living Lab concept, which is exemplified in the development of a Living Lab Network in Senegal.

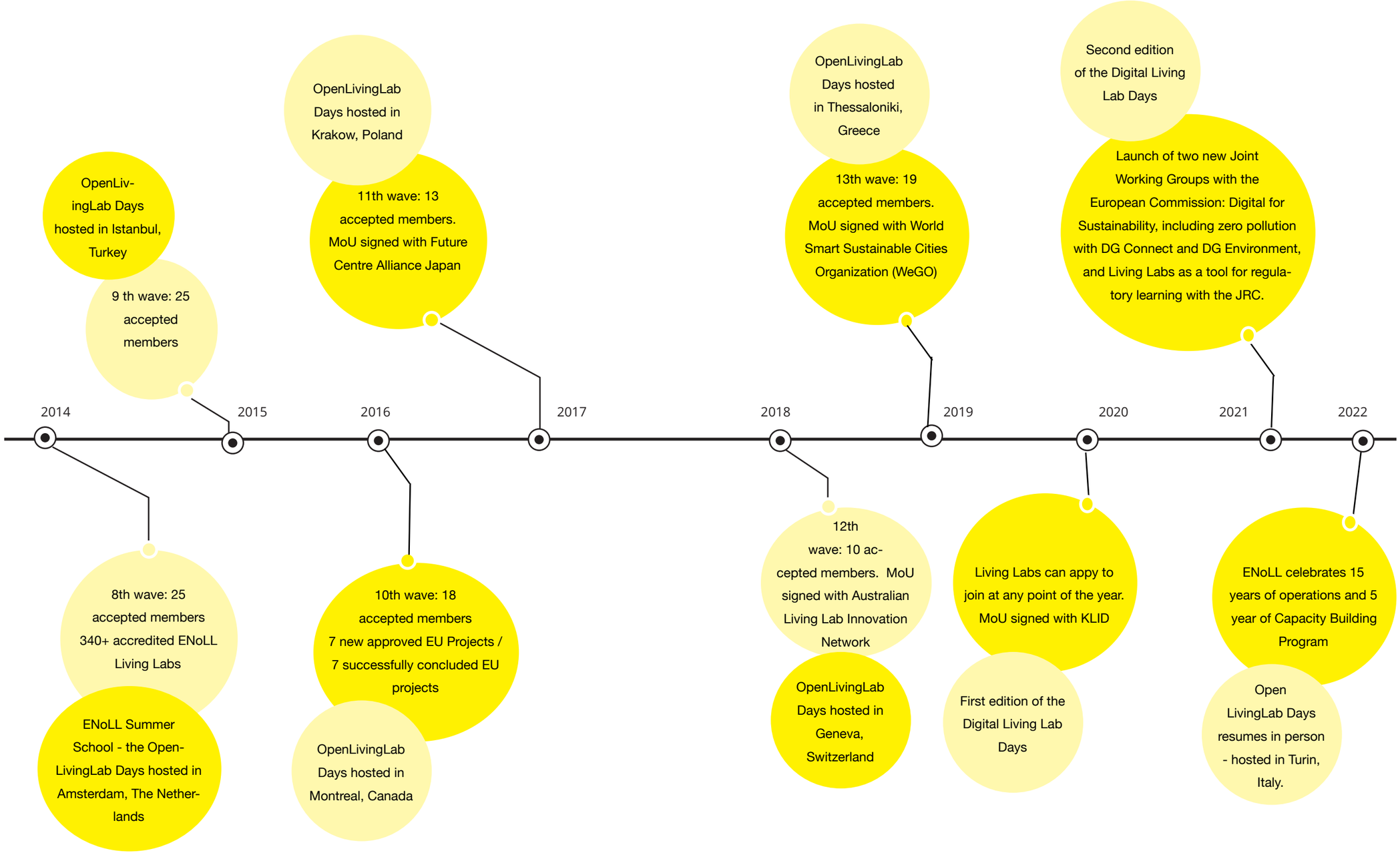
We have celebrated 5 years of the Capacity Building Program, which now incorporates the Virtual Learning Lab (and 8-week long training course online), Learning Lab – Day 0, an in-person training held one day before the OpenLivingLab Days and tailor-made trainings which are prepared for the organisations that have more targeted needs.

Photos, top to botoom: ENoLL creation in 2016, 10 years of ENoLL celebration in 2016 and 15 years of ENoLL celebration in 2022.

Our milestones **2006-2022**

Since the formation of the association, ENoLL has grown in waves every year. This timeline showcases only some of the many accomplishments celebrated by the people who have grown the Living Lab movement at a global stage. With the continuous growth in the membership it is evident that the Living Lab movement is strong not only in Europe, but also on other continents.




2014
2015
2016
2017
2018
2019
2020
2021
2022
OpenLiv-ingLab Days hosted in Istanbul, Turkey
9 th wave: 25 accepted members
8th wave: 25 accepted members 340+ accredited ENoLL Living Labs
ENoLL Summer School - the Open-LivingLab Days hosted in Amsterdam, The Nether-lands
OpenLivingLab Days hosted in Krakow, Poland
11th wave: 13 accepted members. MoU signed with Future Centre Alliance Japan
10th wave: 18 accepted members 7 new approved EU Projects / 7 successfully concluded EU projects
OpenLivingLab Days hosted in Montreal, Canada
OpenLivingLab Days hosted in Thessaloniki, Greece
13th wave: 19 accepted members. MoU signed with World Smart Sustainable Cities Organization (WeGO)
12th wave: 10 ac-cepted members. MoU signed with Australian Living Lab Innovation Network
OpenLivingLab Days hosted in Geneva, Switzerland
Second edition of the Digital Living Lab Days
Launch of two new Joint Working Groups with the European Commission: Digital for Sustainability, including zero pollution with DG Connect and DG Environment, and Living Labs as a tool for regula-tory learning with the JRC.
Living Labs can appy to join at any point of the year. MoU signed with KLID
First edition of the Digital Living Lab Days
ENoLL celebrates 15 years of operations and 5 year of Capacity Building Program
Open LivingLab Days resumes in person - hosted in Turin, Italy.

ENoLL Strategic Objectives

With the mission to be an Ambassador of European values of co-creation and open innovation, to provide value to its members and external stakeholders by offering them opportunities to develop their capacities & knowledge in order to strengthen them in developing and scaling-up impactful innovative products & services and expanding their own value to their own stakeholders", the ENoLL strategic plan will serve as the basis to operationalize the vision for the upcoming 4 years.

The ambition of ENoLL is to be the leading organization empowering the global development of living labs as enablers of impactful open innovation ecosystems where everyone can co-create and innovate via cross border & cross sectoral collaboration in an inclusive way.

As an organization we aim to focus on serving different stakeholders, such as the living labs community and open innovation labs, public institutions, private sector, EU and Global policy makers, research community, NGO's, citizen associations & communities and education ecosystem.

The strategic plan is based on 7 strategic objectives:
SO1: Create new value, visibility and opportunities for our network
SO2: Positioning of living labs in the EU agenda,
SO3: Foster International Collaborations
SO4: ENoLL as the main Global actor in capacity building for Living Labs
SO5: Expand ENoLL as the main actor for Living Labs worldwide
SO6: ENoLL the actor of reference for research on living labs
SO7: Develop the concept of living lab beyond test) - and it proposes to strengthen existing services, while setting up new service packages.

Beside the transversal services, that can be customized for all the different stakeholders, the other services identified are as follows:

- Drafting of policy support documents and recommendations for EU and Global policy makers,
- Giving visibility to our network and our members through advocacy actions
- Co-create content with and for the society by designing and facilitating workshops
- Empowering the research & education cluster by creating a research agenda and providing opportunities for interns.

ENoLL transversal services

- Delivering different capacity building activities tailor-made for different types of stakeholders.
- Enlarging the knowledge library/catalogue in which stakeholders can find knowledge materials to flatten their learning curve, hence improving the acknowledgement of living labs as good mechanisms for open innovation in a co-creative way (researchpapers, methods, tools, best practices, webinars, e-courses, publications, etc.)
- Offering partnering opportunities to all our members, effective and adherent
- Creating networking opportunities among the Members and between the Members and other relevant stakeholders.
- Offering a test environment to externals to experiment and validate their solutions, services and products.

SO1: Create new value, visibility and opportunities for our network

In 2022, we made significant progress towards achieving this strategic objective by actively participating in key events alongside our members. Our primary goal was to ensure that Living Labs are represented at a global scale, enabling us to leverage the power of collaboration, innovation, and knowledge sharing. Below you can find key events from 2022:

JANUARY
Dubai Expo2020 conference, Dubai, UAE

MARCH
French Presidency Event, High-level Conference on Citizen Engagement in EU Missions, Paris, France

MAY
Nordic Edge Expo, Stavanger, Norway
Urban Futures, Helsingborg, Sweden
ISPIM, Copengahen, Denmark

JUNE
New European Bauhaus Festival,Brussels,Belgium
UNHabitat, Katowice, Poland

Pictured (L-R): Spela Zalokar (ENoLL), Helena Fitzgerald (Limerick LL), Kaisa Spiling (Forum Virisum Helsinki), Evdokimos Konstantinidis (Thess-AHALL) at the French Presidency event in Paris, France

SEPTEMBER
Science Summit United Nations General Assembly,New York City,USA

NOVEMBER
Global Conference on Living Labs for Smart Cities, South Korea
Regional Living Lab Summit,Istanbul, Turkey

DECEMBER
Gerontology Platform Summit Hong Kong
eAGE, Cairo,Egypt
EuroPhilantopics, Brussels, Belgium

Pictured: ENoLL delegation in New York City, USA

OpenLivingLab Days 2022

"The city as a Lab, but now for real!" Re-working open innovation environments for inclusive, green and digital transition through emerging technologies

OpenLivingLab Days 2022 (OLLD22) was carried out in Turin, Italy at the OGR - Officine Grandi Riparazioni between 19-23 September 2022. The global community of Living Labs will meet again in person, after two year of digital editions. As the main business and cultural centre of Piedmont, this thriving city was the perfect place to talk about open innovation, emerging technologies and green transition.

The conference focused on five tracks:

• **Society**: exploring all 'human' aspects of innovation in cities via Living Labs.
• **Governance**: exploring analysis and practices for governing cities and living labs.
• **Green & sustainable**: analysing how Living Labs contribute to address climate change and new models for sustainable products & services.
• **Transformation**: addressing digital and green transformation, urban planning & development, zero pollution, also through smart & emerging technologies
• **Beyond the city:** innovation beyond city borders, focusing on rural living labs, on scaling-up and cross-sectoral and cross-border collaboration to support (global) challenges at regional level

350 participants attended the event which spanned over 3 days. The opening of the first two days of the conference were live streamed on Facebook with a reach of 281 people during Day 1 and 116 on Day 2.

The conference saw numerous **high level inspirational speakers**. These were:

o Stefano Lo Russo – Mayor of Turin
o Antonio Sgroi – Torino Chapter President of UNICEF

Photo: OpenLivingLab Days

o Gianluca Galletto – Inspirational speaker - Urban Innovation Expert & former Chairs Office at NYC Housings Authority
o Carlos Moreno - Scientific Director of the ETI Chair - Entrepreneurship – Territory – Innovation (IAE Paris-Sorbonne University)
o Patrick Child - Deputy Director General, Environment, European Commission
o Eddy Hartog - Head of Unit Technologies for Smart Communities at European Commission
o Jeff Cherry - UCEO & Founder, Conscious Venture Lab & Managing Partner Conscious Venture Partners
o Jarmo Eskelinen - Executive Director, Data-Driven Innovation Initiative, University of Edinburgh | Smart London Board | OKF Board
o Tuija Hirvikoski - Emerita president of ENoLL holding a PhD in Industrial Management
o Fernando Vilariño - Associate Director at Computer Vision Centre and ssociate Professor at UAB. Co-Founder of the Library Living Lab
o Evdokimos Konstantinidis - President, European Network of Living Labs, Thess-AHALL Researcher
and we at ENoLL are willing to facilitate and expand the impact of living labs worldwide"

Online Visibility

ENoLL has two websites which generate a substantial number of views. The main website of the association is https://enoll.org/. Website of the annual event OpenLivingLab Days which receives a peak number of visitors in the months leading to the event https://openlivinglabdays.com/

Next to that, ENoLL is active on various social media channels as well as content sharing sites.

By 31 December of 2022, ENoLL's Social Media had the following number of followers/subscribers or likes:

3.103
Newsletter subscribers

215
Instagram followers

4.309
LinkedIn page followers

4.630
Members of the Living Lab group

8.611+
Twitter followers

5.200
ENoLL Facebook group followers

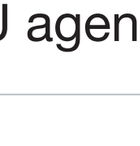
SO2: Positioning of Living Labs in the EU agenda

Coordination of the Soil Mission FPA

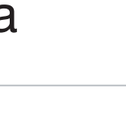
Data sharing cooperation with the JRC

Cedefop's skill foresight exercise on circular economy: ENoLL represented by Silja Kostia (TAMK)

Cedefop's skills foresight exercise on Smart and Green Cities: ENoLL represented by Jokin Garatea (GAIA)



Zero Pollution Stakeholder Platform: Georgia Ayfantopoulou (CERTH) and Valentino Piana HES-SO represent ENoLL



European Commission DG Energy PANEL I The digitalisation of energy: Opportunities, challenges and needed actions for an EU-Local Innovation ecosystem: HES-SO (Joelle Mastelic) represented ENoLL

Joint Working Groups with DG CNCT, DG ENV and JRC on Digital sustainability, including zero pollution Working Group on LL as a regulatory learning tool

Wim Dekinderen (Brainport Eidhoven) at EuroPhilantopics on "Co-creating the Future of Europe"

POLICY STATEMENTS AND RECOMMENDATIONS

ERA POLICY AGENDA

ENoLL comments on the ERA policy agenda 2022-2024 in the ERA Forum for Transition (Tuija Hirvikoski, Laurea Evdokimos Konstantinidis, Thess-AHALL)

NEW EUROPEAN INNOVATION AGENDA

ENoLL communication from the European Commission to the European parliament, the Council, the European Economic and Social Committee and the Committee of the Regions

ZERO POLLUTION

'Living Labs for green digital solutions and smart zero pollution' are key to achieving the EU's zero pollution ambition. The Commission launched *Flagship 7* to help develop local actions for green and digital transformation which contribute to the European Digital Green Coalition and the European Climate Pact

SO3 highlights: Foster International Collaborations through MoUs and Agreements

This report highlights ENoLL's role as the leading global certification body for Living Labs and its dedication to fostering partnerships through the signing of Memorandums of Understanding (MoUs). ENoLL's efforts in promoting collaboration and driving innovation in the Living Lab community have been instrumental in advancing sustainable development and urban transformation worldwide.

Strengthening Collaborations

ENoLL has played a pivotal role in establishing partnerships and alliances with prominent organizations, governments, and networks in various regions. These collaborations have fostered knowledge exchange, innovation, and shared best practices in the field of Living Labs.

Signed MoU with SIMUS -
Latin American Network of Mobility Living Labs:
ENoLL successfully entered into a strategic partnership with the Latin American Network of Mobility Living Labs, SIMUS. This MoU signifies a commitment to collaboration and mutual support in advancing mobility solutions and sustainable urban development in Latin America.

Exploration of a MoU with AgriFood Canada, Government of Canada:
ENoLL is actively exploring a potential MoU with AgriFood Canada, a governmental organization responsible for agriculture and food-related matters in Canada. This potential collaboration aims to leverage Living Labs to drive innovation and sustainability in the agri-food sector.

Renewed MoU with WeGo:
ENoLL has renewed its MoU with WeGo, an organization dedicated to sustainable urban development. This ongoing partnership strengthens ENoLL's commitment to promoting Living Labs as a means to achieve innovative and sustainable solutions for cities.

Under renovation MoU with Future Alliances Japan:
ENoLL is currently renovating its MoU with Future Alliances Japan, indicating the organization's dedication to enhancing collaboration and knowledge sharing in the realm of Living Labs in Japan. This partnership aims to drive forward urban development initiatives and create a lasting impact on society.

Global Outreach and Impact

ENoLL as the global Living Lab certification body has significantly contributed to its worldwide reach and impact. The organization's dedication to promoting Living Labs as catalysts for innovation and sustainable development has been recognized internationally.

Arthur Serra (i2Cat) in Senegal invited by the FDSUT

ENoLL's representative, Arthur Serra, was invited by the Fonds pour le Developpement du Service Universel de Telecom (FDSUT) in Senegal. This invitation signifies the recognition of ENoLL's expertise and experience in developing Living Lab networks. Arthur Serra's visit aimed to establish a network of Living Labs in five cities, furthering ENoLL's commitment to fostering innovation and inclusive development in Senegal.

Key Memberships and Collaborative Initiatives

ENoLL actively engages in strategic memberships and collaborative initiatives to strengthen its position as a global certification body and contribute to the advancement of Living Lab practices.

ENoLL Support Member of the Urban Transition Mission

ENoLL proudly serves as a support member of the Urban Transition Mission, a collective effort focused on promoting sustainable urban development. This membership demonstrates ENoLL's commitment to integrating Living Labs into urban transformation initiatives, fostering inclusive innovation, and addressing complex urban challenges.

Urban Transition Mission Centre Project

ENoLL's involvement in the Urban Transition Mission Centre Project showcases its commitment to shaping the future of sustainable urban development. This project aims to establish a dedicated center to drive innovation, knowledge sharing, and collaboration among stakeholders in the urban transition domain. ENoLL's participation further strengthens its global presence and leadership in the Living Lab community.

SO4: ENoLL the main Global actor in capacity building in Living Labs

The ENoLL Capacity Building consists of multiple possibilities for support organisations in developing Living Lab maturity level:

(1) The **Virtual Learning Lab** brings together a virtual classroom of curious Living Lab learners together with Living Lab expert speakers in hands-on knowledge exchange over the course of 8 weekly sessions. The Virtual Learning Lab runs twice each year with a spring- and autumn-edition. This option is suited for novice-beginner-intermediate level learners. In 2022, the Virtual Learning Lab was completely re-designed and the courses were co-created with the trainers and inspirational speakers. The course is also aligned with the labelling and certification process.

(2) **Learning Lab training** held one day before the annual conference, the OpenLivingLab Days. The 2022 edition which was held again in a physical form saw 40 participants.

Photo: Learning Lab Day in September 2022

(3) The **ENoLL Capacity Building Programme** consists of a tailor-made offers constructed in collaboration with organisations, individuals and companies aspiring to develop a successful Living Lab. The programme is built on elements of Living Lab trainings, mentoring and additional targeted learning materials. In the Capacity Building Programme the learning is customised to your case, thematics and domains specifically.

In 2022, ad hoc coaching and mentoring service was launched.

Photo: Training within OpenLab project in Genk, Belgium

Capacity Building Programme

The Capacity Building Programme is a learning programme aimed at professionals interested in advancing their knowledge on Living Labs and Living Lab operations. The programme offers a tailored training and mentoring plan specific to an organisation's needs and aspirations as well as a virtual classroom for learning all you need to know about Living Labs.

The ENoLL Capacity Building transforms your organisation through a Living Lab approach:

(1) **The Virtual Learning Lab, a virtual training course on Living Labs, was created in 2020 in response to the COVID-19 pandemic. The 8-week long training course continues each year with a Spring and a Fall edition.**

The Virtual Learning Lab brings together a virtual classroom of curious Living Lab learners with Living Lab expert speakers in hands-on knowledge exchange over the course of 8 live sessions, hands-on assignments and additional learning materials. The Virtual Learning Lab is suited for novice-beginner-intermediate level learners.

(2) **The ENoLL Capacity Building Programme** consists of tailor-made offers constructed in collaboration with organisations, individuals and companies aspiring to develop a successful Living Lab. The programme is built on elements of Living Lab training, mentoring and additional targeted learning materials. In the Capacity Building Programme the learning is customised to your case, thematics and domains specifically.

ENoLL members are able to join the Capacity Building Program either as trainers or to upscale their knowledge and operations.

Photo: Learning Lab Day in September 2022

Photo: Training at CIHEAM Bari

Learning Lab

The Virtual Learning Lab brings together a community of participants and experts in exchanging knowledge on the key elements of Living Labs. A course that will fast-track your learning through lectures and interactive sessions, a case study approach connecting theory to practice, as well as hands-on assignments to apply the learnings in your own context.

Why join the Learning Lab course?

- to learn about key components and the essence of Living Labs
- to hear from the excepts, who are connecting theory to practice
- for the hands-on application to your own case
- for fast-track learning and a holistic overview through a learning journey approach including peer-to-peer learning and support

https://openlivinglabdays.com/virtual-learning-lab/

SO5: Expand ENoLL as the main actor for Living Labs

Developing a national network of Living Labs in Senegal

From 9 to 17 May 2022, ENoLL Council Member and the lead of the AOTF on Social Innovation and Digital Rights, Artur Serra Hurtado (i2cat) was in Senegal at the invitation of the Fonds pour le Développement du Service Universel des Télécommunications.

During his 10-day journey, he visited 5 Senegalese cities: Dakar, Ndangalma, Kaolack, Ziguinchor and Saint Louis. The goal is to develop a national network of Living Labs starting with the involvement of these local partners who have already shown a strong commitment to the project. This initiative also sees the involvement of Brigitte Trousse from ICT Usage Lab, coordinator of Francophone Living Labs, and Samia Chelbi from DigiArtLivingLab

Photo: Artur Serra in Senegal

ENoLL Support Member of the Urban Transition Mission

The goal of the Urban Transition Mission is to work with a cohort of 50 ambitious cities worldwide to demonstrate integrated pathways towards holistic, people-centred urban transitions built around clean energy and innovative net-zero carbon solutions. By 2030, these pathways will be validated by an additional group of 250 cities and inspire cities across world regions on their journey towards decarbonisation.

ENoLL recognizes the urgent need to mobilize decision makers across all levels of government to prioritise climate-neutral and net-zero pathways enabled by clean energy and systemic innovation across all sectors and in urban governance. ENoLL joined the mission as a Support Group member, committed to assist in three pillars:

- Innovative urban net-zero transitions
- Capacity building and funding for the net-zero urban transition
- Research and innovation needs for the global net-zero transition.

Urban Transition Mission Centre Project

In December 2022, the Urban Transitions Mission Centre project kicked off, setting up urban experts from ENoLL, JPI Urban Europe, Eurocities, the Global Covenant of Mayors, ICLEI and LGI Sustainable Innovation. The project will make available evidence and good practice for urban climate-neutral transitions globally and facilitate capacity building, knowledge exchange and moderated learning for cities and key stakeholders.

The Urban Transitions Mission Centre will link cities with policy, implementation and funding solutions via exchanges that transcend national and world region borders. It recognized that the cities are hotspots for climate mitigation and have ambitious visions to reap the multiple co-benefits of climate action, yet gaps still persist between local action plans and the pace of current transformations.

SO6: ENoLL the actor of reference for research on living labs

We have made noteworthy achievements in the field of Living Lab research. We appointed a Head of Research to enhance our efforts and published a work in progress paper on harmonizing evaluation criteria and KPIs for living labs in ISPIMjournal. We also contibuted to the special issue of Frontiers journal on Living Labs and Open Innovation, and made a statement on the ERA policy agenda 2022-2024 in the ERA Forum for Transition (by Tuija Hirvikoski, Evdokimos Konstantinidis). In addition, we hosted two sessions at the Science Summit @UNGA77.

Key take outs: "Harmonizing the evaluation of living labs: towards a standardized structure and assessment of living labs"

This paper contributes to:
1) the theoretical underpinning of LL evaluation frameworks in the macro-meso-micro level approach and the existing literature,
2) the practical multilayered (marco-meso-micro) and multidimensional LL evaluation framework and
3) the refined evaluation structure that supports future research by providing a harmonized approach to compare, benchmark and detect strengths, weaknesses and maturity of LL related to each criterion.

The more in-depth understanding of the strengths and weakness of the LL will also help developing ad hoc LL training and capacity building programs by identifying barriers and development needs (Forsström, Lilja and Ala-Mantila, 2020). Equally important, the framework presented in this paper, will be set the ground for the development of a self-assessment tool for living lab organisations, together with further focused capacity building activities in the wider ENoLL-network and beyond. According to ENoLL long experience, self-assessment remains a challenge for the living labs and would be a key to corrective actions and improvement.

More information at: https://www.academia.edu/81060356/Harmonizing_the_evaluation_of_living_labs_a_standardized_evaluation_framework?f_ri=2807

Key take-outs: "Living Labs and Open Innovation approaches to scale impact for human wellbeing"

The ENoLL-affiliated editors (namely Francesca Spagnoli, Evdokimos Konstantinidis Sonja Pedell, Dimitri Schuurman and Ann Borda) contributed to the special issue of the high impact factor journal Frontierts and the research topic "Living Labs and Open Innovation approaches to scale impact for human wellbeing".

The aim of this Research Topic is to raise the awareness and opportunities of current international research and practice in the intersection of living lab models and digital public health and well-being across communities, cities and regions.

Research articles that explore the following sub-themes are welcoed:

- Case studies of the real-world application of living lab approaches to human' aspects of innovation with multiple stakeholder groups (e.g. services, information products, education, policy, methods); '
- Digital innovations co-designed, co-produced, or co-created with users and stakeholders sustainable products and services (e.g. public health and aged care, connecting regions, green transformation, and teaching tools or platforms);
- Challenges and barriers to adoption of living lab approaches in society (e.g. lack of methods, workforce skills, resourcing, governance structures and borders).

More information at: https://www.frontiersin.org/research-topics/20968/living-labs-and-open-innovation-approaches-to-scale-impact-for-human-wellbeing.

SO7: Develop the concept of living lab beyond testing site

In 2022, ENoLL was participating in ongoing discussions with European Association of Research and Technology (EARTO) on establishing Living Labs as Research and Technology Organisations (RTOs). In addition, the Working Group on Living Labs as a Regulatory Learning Tool published the first report with the Join tResearch Centre of the European Commission.

The Working Group explores the utilization of living labs for regulatory learning. The objective is to encourage co-creation and mutual learning among the stakeholders of the multiple helix model. The aim is to address regulatory challenges, leverage opportunities and respond to the changing innovation landscape. The group is focused on developing and promoting living labs as an evidence-based approach to support co-creation, better regulatory governance of innovation, and foster socio-technical and socio-economic transformation in societies.

The key questions the group committed to answer are:

- Question 1: What is regulatory learning, what are its desired outcomes, and which methods and tools can support it?
- Question 2: Why is regulatory learning relevant and important for a single living lab and for networks thereof, and what can both, regulators and living labs, learn from ach other?
- Question 3: How can regulatory learning be applied to one or more living labs? How is this already being done, and how could/should it be done more systematically in the future?

The Policy Brief highlights the following points:

- Test beds, living labs, and regulatory sandboxes are experimentation spaces that can generate evidence and learning useful to support innovation and regulatory governance.
- Each type of experimentation space has its set of distinctive features that call far different forms of stakeholder engagement and can support different types of regulatory learning.
- Experimentation spaces need to strike a balance between supporting the development of innovations and mitigating any related risks on the market, the public, and the environment
- More evidence of experimentation practices and their impact is needed to foster their development, scale-up and replication by stakeholders in innovation ecosystems.

The report can be accessed at: https://publications.jrc.ec.europa.eu/repository/handle/JRC130458

ENoLL members in 2022

Photo: Gala Dinner at OLLD23

In 2022, there were 159 active members representing 35 countries from 5 continents. 22 were Effective Members, 135 Adherent Members, 1 Innovation Partners and 2 Accepted to Grow. In 2022, 8 Adherent Members and 1 Accepted to Grow member were welcomed.

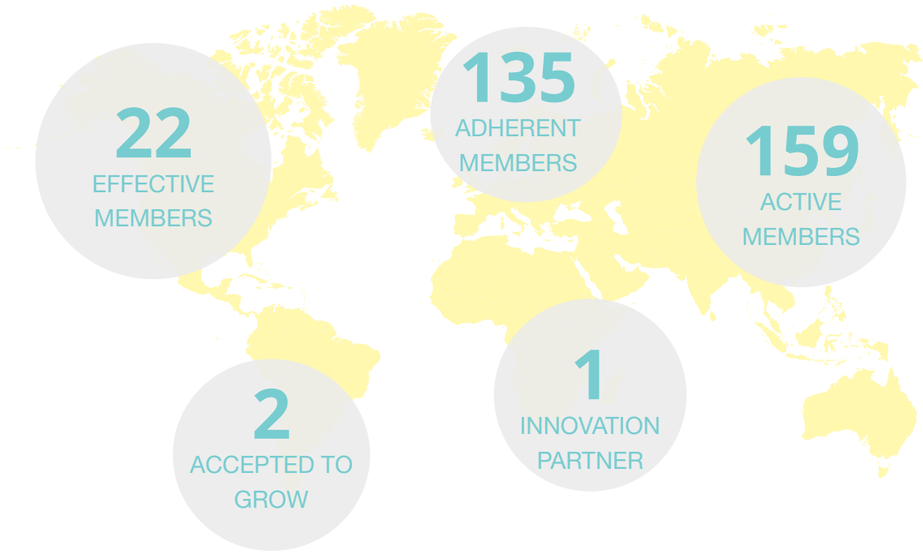
The newly joined Adherent Members are:

- ADP Zid Living Lab
- Atlantic Innovation Region
- Living Lab Circulair
- Living Lab in Gerontechnology for Age-Friendly Home
- Living Labs Incubator
- Mediterranean Innovation Rural Living Lab
- Pismo Hub
- Prijedor Circle Hub

Accepted to grow member:

- Andorra Living Lab

Effective Member: UVT Digital & Green Living Lab



ENOLL ACTIVE MEMBERS

2022 SMARTCITY living lab
ADP Zid Living Lab
Agrotopia
Aktan
Andorra Living Lab
Apulian ICT Living Lab
Apulian Living Lab on “Healthy, Active & Assisted Living”
ARCA LIVING LAB (previously SoLL Solar Living Lab)
Atlantic Innovation Region
BAŞAKŞEHİR LIVING LAB
BELLAB
BIRD Living Lab
Blue Hotspot Dordrecht (before it was: PPS Waterroute)
Bodrum Living Lab
Botnia Living Lab
Brie’Nov
Care Innovation Center West-Brabant
Citilab Cornellà
Citizen Innovation Lab
City Lab Coventry
City of the future living lab
CODER Living Lab
Colaboratoris Catalunya
Creative Living Laboratory
Daegu Creative Living Lab

Design Creative City Living Lab
DigiArtLivingLab (Tunis-Nabeul)
Dingle Peninsula (prev. Dingle creativity and innovation Hub)
E-zavod living lab
E2L Earth observation Living Labs
Ecopol living lab & ecovillages Romandie
Eindhoven Living Lab
ENERGY & WATER - Greater Copehagen LL
Energy Living Lab
Epica lab
Fablab Treviso (UNIS&F Lab)
Fibl On-farm living labs
Fibl On-farm living labs (Tracing the use of antibiotics in organic pig farming)
Finnish Network of Living Labs
Food & Health Living Lab
Forum Virium Helsinki
Fundación Épica La Fura dels Baus
Galician Network of Health Living Labs
Genève Lab
Gérontopôle Nouvelle-Aquitaine
Ghent Living Lab
Green point – DIH AGRIFOOD based Living lab
Green Schools Living Lab
Happy Aging
Healthcare Living Lab Catalonia
HSB Living Lab
ICM cLLAPS LivinLab@ PitiéSalpétrière
ICT Usage Lab
iHomeLab
imec.livinglabs
InnovAALab - Apulian Living Lab on “Healthy, Active & Assisted Living”
Innovative Learning & Teacher Education Living Lab (IL.TE.LL)
Intergener8 Living Lab
INTERIORS LIVING LAB
IoT SmartSantander Living Lab
JF OCEANS
K8 Institut fuer strategische Aesthetik gGmbH
Kiraki Living Lab
KLIO Lab
Bristol Living Lab
Krakow Living Lab
La Fabrique du Futur
La Marina Living Lab
Lab4Living
LABe Digital Gastronomy Lab
Lahti Living Lab
Laurea Living Labs Network
Lecco Innovation Living Lab
Library Living Lab
Licalab - Living and Care Lab
LifeLab
Living Lab Agrifood Technology
Living Lab Animal Husbandry
Living Lab at Mälardalen University
Living Lab Circulair
Living Lab for Special Needs
Living Lab in Gerontechnology for Age-Friendly Home
living Lab Saint Victor
Living Lab Social in real environment
Living Lab Tomsk Network
Living Labs Incubator
LivingLab SHANGHAI
LLio
Lorraine Smart Cities Living Lab
Lugano Living Lab
Lunigiana Amica
Manchester Digital Innovation
Mandalab
Medialab UGR: Research Laboratory for Digital Culture and Society
Mediterranean Innovation Rural Living Lab
MedTechLab®
Mezopotamya Living Lab
MINDLab
Mobile Communications and Computing for Life Quality
Mobility Lab CH
Neàpolis
NEST - Explore the future of buildings (prev. Next Evolution in Sustainable Building Technologies)
NetwellCASALA
NEUROLAB, ADACEN Living Lab
Newcastle Living Lab (prev. Social Informatics Lab)
Normandy Living Lab
ÖMKi On-farm Living Lab
Openlab
PA4ALL - Precision Agriculture for All
OZEAN LIVING LAB
PAsteur Innovative Living Lab Of Nice 2020
Pismo Hub
PRAXLABS
Prijedor Circle Hub
PSNC Future Labs
prolida - Professional Living, Innovation and Development Lab for an Ageing Society
Puglia Smart Lab
Rehabilitation Living Lab in the mall
Rijeka iLivingLab
Santa Chiara Lab
senior-lab
SENSO2ME
Småland Regional Living Lab
Smart Living Lab
Smart Retail City Lab
Smart Rural Living Lab
Smart Safety Living Lab
SMARTCITY LIVING LAB
Smartcity Málaga Living Lab
SmartFactoryOWL
SofiaLab
SSI Living Lab
StadtLABOR
Taiwan Living Lab
TAMK Living Lab
Swinburne Living Lab (prev. Future Self and Design Living Lab)
The Innovate Dementia Transnational Living Lab
Thessaloniki Action for HeAlth & Wellbeing Living Lab (previously: Thessaloniki Active & Healthy Ageing Living Lab)
Thessaloniki Smart Mobility Living Lab
The Swedish Living Lab on Vehicle and Transport ICT
Thriving Entrepreneurial and Creative Lab (prev. Textile & Clothing Living Lab)
TIE-LL Technology Innovation Ecosystem
Torino City Lab
Transilvania Living lab
UAB Smart Campus Living Lab
UJI.>LAB (Prev. espaitec Living Lab)
UDD - Universite du Domicile
UNIS&F Lab
Universcience Living Lab
UVT Digital & Green Living Lab
Vuela Guadalinfo
Urban Management - Fieldlabs
WaterCampus Leeuwarden
Well Living Lab
Well-being Living Lab Nagykovacsi
Wireless Trondheim Living Lab
ZorgLab Aalst

Effective Members and Innovation Partners in 2022

Innovation Partners are organizations which are involved in the object and activities of the association, but who are not selected according to the ENoLL selections process. Adherent members can choose to become Effective Members and have a vote in the organization and strategic directions of the ENoLL association. In 2022 there were 22 Effective Members and 1 Innovation Partner.

Effective members
Basaksehir Living Lab, Turkey
Bird Living Lab, Spain
Bristol Living Lab, United Kingdom
City Lab Coventry, United Kingdom
Colaboratoris Catalunya (formerly i2Cat), Spain
Eindhoven Living Lab, The Netherlands
Energy Living Lab, Switzerland
imec living labs, Belgium
Krakow Living Lab, Poland
Laurea Living Labs Network, Finland
Library Living Lab, Computer Vision Center, Spain
LiCaLab - Living and Care Lab, Belgium
Mind Lab, Spain
ÖMKi On-farm Living Lab, Hungary
P4ALL - Precision Agriculture for All, Serbia
Poznan Living Lab, Poland
Taiwan Living Labs, Taiwan
TAMK Living Lab, Finland
Thessaloniki Active and Healthy Ageing Living Lab, Greece
Thessaloniki Smart Mobility Living Lab, Greece
UJI.>LAB (formerly espaitec), Spain
UVT Digital & Green Living Lab, Romania
Vuela Guadalinfo, Spain

Innovation Partners
Finnish Network of Living Labs, Finland

SEE THEIR FULL PROFILE AT
https://enoll.org/network/living-labs/

ENoLL in European funded projects

ENoLL is active in many different areas of work to strengthen the impact that Living Labs can generate. In 2022, 10 new projects were approved – these either started in 2022 or plan to start in 2023. Out of these, ENoLL is a coordinator of one project on Gendered Innovation Living Labs.

SOCIAL & CREATIVE

The Social & Creative project aims to promote trans-local innovation clusters for creative and social innovation by providing instruments that allow trans-national MED modular projects to connect with local innovation communities.

ENoLL has been developing Policy Briefs and has organised working and focus groups know knowledge transferring. The project concluded in 2022.

UNaLab

UNaLab is developing inclusive, more resilient to climate change and increasingly sustainable cities through innovative nature-based solutions (NBS).

ENoLL is working, in collaboration with other partners, on a common Living Lab Framework and tools for co-creation. With the help of the Living Lab experts, ENoLL was in charge of training European cities in Urban Living Lab development. The project concluded in 2022.

OpenLab

oPEN Lab: aims at designing and implementing replicable and commercially viable services of Positive Energy Neighbourhoods in a set of three European urban contexts, and finally integrating these technologies and packages in different Living Labs. In oPEN Lab, the cities of Genk (in Belgium), Tartu (in Estonia) and Pamplona (in Spain) will contribute to make interventions and test combinations of different close-to-market ready technologies and services and study their performance as a unique operating system.

URBANOME

The project's overall objective is to promote urban health, well-being and liveability by integrating health concerns in urban policies and the activities of urban citizens, on the basis of detailed and comprehensive evidence on environmental health determinants, their spatial distribution in the city and the social distribution of their impact among different population groups, accounting for different lifestyles and behaviours.

Metabuilding Labs

Metabuilding Labs intends to unlock the innovation potential, improve competitiveness and boost market impact of the small and medium-sized enterprises (SMEs) in the European construction sector. For this, an Open Innovation Digital Plataform is being developed, giving access to a powerful innovation ecosystem, including over 100 testing facilities across 12 European countries. The role of ENoLL in the project is to bring the knowledge of Living Labs in testing and scaling up technologies and develop a framework for test beds within the MBLabs environment to do the testing process in a user-centered way and using a Living Lab oriented approach.

Mobius

Mobius aims to modernize the European book publishing industry by remodelling the traditional value chains and business models uncovering the prosumers potential and delivering new enriched media experiences. Through the Living Lab piloting and testing with end-users Mobious will develop an application for an immersive book consumption experience. In 2022, ENoLL and Living Labs KTP and Laurea were involved in the piloting activites.

ALL-READY

A sustainable, ecological approach in farming is today a solution in front of the growing challenges of climate change, depleted natural resources, shrinking biodiversity and reduced soil quality. Agroecology can address these challenges, reinforcing the resilience of farming systems. Existing instruments offered by open innovation arrangements can serve this goal, particularly living labs (LL) and research infrastructures (RIs). For this reason, the EU-funded ALL-Ready project will develop AgroEcoLLNet, a new framework for the future European network of LLs and RIs.

WATER-MINING

Water security is among the most crucial challenges for water management today. As a consequence, innovative water management solutions and alternative water resources are required. The EU-funded WATER-MINING project will exhibit and validate innovative next-generation water resource solutions at the pre-commercial demonstration-scale in accordance with relevant legislation, such as the Water Framework Directive, Circular Economy and EU Green Deal packages. It will combine water management services with the improvement of renewable resources such as mining water. It is envisaged that the value-added end products will offer supplies of regional resources to increase economic growth. The project will examine different designs proposed for urban wastewater treatment and seawater desalination and innovative service-based business models aiming to improve the engagement of private and public stakeholders.

VITALISE

By bringing together three major living lab networks in Europe, VITALISE interconnects the majority of Living Labs across Europe, to cover all European geographical areas and all the spectrum of the Health and Wellbeing domain. The aim is to open up living lab infrastructures as a means to facilitate and promote research activities in the health and wellbeing domain in Europe and beyond by enabling in-person Transnational Access to seventeen living lab research infrastructures and supporting remote digital access to datasets (Virtual Access) of rehabilitation, transitional care and everyday life activities through harmonized processes and common tools. The project will also develop training methods towards the wider understanding and valorisation of Living Lab methodologies in the research community.

SCORE

SCORE is aiming to increase climate resilience in European coastal cities. The project will tackle specific challenges related to sea levels, coastal erosion and extreme weather events using an integrated solution of smart technologies and ecosystem-based approaches. One of the key activities under SCORE, and the main activity in which ENoLL is involved, is to design, implement, and evaluate a novel framework of Coastal City Living Labs (CCLL) that will enable citizens and stakeholders to co-create and co-design the solutions.

DT4REGIONS

The aim of the project Digital Transformation for Regions - DT4REGIONS project is to launch a European Platform for Regions to enable AI and Big Data collective solutions, namely a unique challenge-based innovation platform for the development of tools and services of public interest and to enhance public administration efficiency and effectiveness in user-centric services. Led by Emilia-Romagna Region, the DT4REGIONS platform project will be based on the real needs of a network of regions supported by technical partners to make the platform a sound and effective environment for the development of the next era of AI and Big Data for the digital transformation of the public administration.

PREPSOIL

PREPSOIL will adopt a proactive approach to co-create with stakeholders, leveraging on both offline and online facilities, with the ultimate purpose of generating long-lasting interaction spaces. Furthermore, PREPSOIL will provide the first assessments and efforts towards an improved knowledge base and awareness level on soil health for multiple stakeholders. Project's web portal is envisaged as the European "one-stop-shop" for all information, resources and digital engagement tools for the Mission stakeholders. It will offer an open-source workspace, including collaboration instruments, ready to be expanded to meet requirements from the Mission.

CommuniCity

The project will conduct numerous innovation pilots in local communities (urban, peri-urban and rural) with the aim of empowering the hard-to-reach and marginalised communities. The project will build on recently awarded European as well as national place-based and locally-driven innovation programmes, methods, living labs and platforms.

TRANSFORMER

The TRANSFORMER project considers entire regions as living laboratories, Transition Super-Labs, in which new ways of transformation towards a climate-neutral future can be developed, tested and implemented. These Labs will be implemented in four regions, the Ruhr Area, DE, Emilia Romagna, IT, Lower Silesia, PL and Western Macedonia, GR. ENoLL plays a key role in the Capacity Building development.

Data Space for Smart and Sustainable Cities and Communities

DS4SSCC is a preparatory action for the creation of a data space for smart communities as an enabler of the EU Green Deal goals and Sustainable Development Goals.

Go Li.EU

Go Li.EU will support and accelerate the European way of digital transformation by coordinating and further enhancing strong multi-level governance cooperation in the EU to develop, (re-)use and share trustworthy solutions, technology and standards. The project is ensuring effective governance of Living-in.EU community.

LIFE-BECKON

Boosting Energy Communities massive deployment by equipping local authorities with comprehensive technical assistance cooKboOk, integrated services and capacity buildiNg) stimulates and boosts the deployment of energy communities across Europe by developing and delivering comprehensive support mechanisms for public authorities, promoters and Local Action Groups to better equip them to facilitate the creation of energy communities, therefore answering to clear needs and known barriers.

NATI00NS

The main objective of NATI00NS is to facilitate the deployment of the EU Soil Mission across European regions during most of its first 'induction and pilot' phase (2021-2025). NATI00NS acts as a messenger of the Mission, raising awareness among national and regional stakeholders, providing access to quality-checked capacity-building materials and information, spurring the discussions on the best LL setups to address regional soil needs, and fostering early matchmaking for cross-regional LL clusters.

ENoLL Council

The association is managed by an Executive Board (the Council) consisting of members who are appointed by the General Assembly. The General Assembly meets every year, under the chairmanship of the Chairman of the Executive Board. The role of ENoLL Secretariat is to implement decisions passed by the General Assembly and run day-to-day operations of the network.

The Council is composed of Omer Onur, Jokin Garatea, Carolyn Hassan, Andree Woodcock, Artur Serra, Wim De Kinderen, Joelle Mastelic, Brigitte Trousse, Bram Lievens, Monika Machowska, Teemu Santonen, Fernando Vilariño, Adam Olszewski, Belinda Chen, Hanna-Greta Puurtinen, Evdokimos Konstantinidis, Josep Maria Salanova Grau, Juan Antonio Bertolin and Navarra Cruz Juan Luis.

Leadership of the ENoLL Executive Board (the Council):
ENoLL Secretariat consists of ENoLL Chair Evdokimos Konstantinidis (Thess-AHALL), Treasurer Omer Onur (Basaksehir Living Lab) and Secretary Juan Bertolin (espaitec). ENoLL Chair invited Wim De Kinderen (Brainport Eindhoven Living Lab) to continue in the function of ENoLL Vice Chairperson.

Photo: ENoLL Council members at the OpenLivingLab Days 2023

ENoLL Office

ENoLL Office is based in Brussels, Belgium. The Office works on daily operations of the network and on reaching the strategic objectives of the network.

The ENoLL Office team of 2022, consisted of Martina Desole (Director), Giulia Campodonico (Head of Projects), Francesca Spagnoli (Head of Capacity Building), Koen Vervoort (Network Builder), Spela Zalokar (Senior Project Manager and Communications Manager), Marta de los Rios White (Senior Project Manager), Isabelle Couture (International Project Manager), Mariem Chakroun (Senior Project Manager), Leidy Enriquez Florez (International Project Manager and Data Protection Officer), Frederic Goffard (Senior Finance), Marijke Van Den Bossche (Senior HR Manager), Marc Bouchet (Finance Officer & Office Manager), Maria Kiseleva (Executive assistant and Junior Finance Officer), Aurora Agostinis (Junior Project Manager), Alessandra Tricarico (Executive Assistant and Junior Project Manager), Michelle Gonzalez Torres (Junior Communication Consultant).

The team was also supported on part-time basis by Zsuzsanna Bodi (Senior Strategic Advisor), Joanna Karas (Consultant), Kirsty MacDonald (Communications) as well as Monica Nagore (External expert for Social & Creative project), Ot Puy (DT4REGIONS project), Evdokimos Konstantinidis (VITALISE project) and Jonas Onland (Go Li.EU project).

Activity report 2022

Photo: ENoLL staff at the premises of the ENoLL office

Get in touch

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