European Network of Living Labs

2021 Activity Report

A review of the activities of the European Network of Living Labs for the year 2021

Activity report 2021

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This report is a compilation of activities of the network for the year 2021.

Editors:
Spela Zalokar
Concetta Varia

Contributors:
Spela Zalokar
Francesca Spagnoli
Koen Vervoort
Martina De Sole
Leidy Enriquez

Design: imagearea

Foreword

Evdokimos Konstantinidis

ENoLL Chairperson (2021-current)

Foreword

Fernando Vilariño

ENoLL Chairperson (2019-2021)

It was my great honor and pleasure to have received the trust of ENoLL's Executive Board as ENoLL's Chairperson during this amazingly intense journey, and, as my 3-year commitment to the position is ending, I am so happy to offer all my support to Evdokimos Konstantinidis as the new ENoLL Chairperson. I would like to thank all the people from the ENoLL's Team for their highest quality and tireless work, as well as the ENoLL Community for their support. Along the recent years, the Living Lab Community has evolved towards a powerful actor for innovation-led growth and positive socio-economic impact. This has also been evident during the last months, with the tragic pandemic that the SARS-CoV-2 virus has brought to our cities and communities -my thoughts cannot be away from those who suffered, a number of them very close to our families and friends-. In this time of uncertainties, it is where the motto that I inherited from Tuija Hirvikosky illuminates with all its power: together, we are stronger. ENoLL has experienced a very relevant transformation in the last three years, in the light of the Manifesto for Innovation in Europe that EnoLL co-created with mind-liked institutions and individuals. I would like to mention 4 reasons that endow ENoLL with this strength: 1) Through the development of its enhanced value proposition, ENoLL has increased its support to the Community, by doubling its office staff numbers and budget, and by extending the benefits to the ENoLL members. 2) ENoLL has become an actual European and Global distributed research and innovation infrastructure, with the development of its Action-oriented Task Forces, aligned in vertical topics, coordinated by ENoLL members and open to all the stakeholders to place our citizens in the center of innovation. 3) ENoLL became the main actor in Capacity Building for Living Lab Methods and Tools, with the deployment of the ENoLL's Capacity Building program through our projects, conferences, and the online Virtual Learning Lab. 4) ENoLL has strengthened its position as a European and Global actor with the signature of the MoU agreement with the European Commission's Joint Research Center for the implementations of Joint Working Groups supporting evidence-based policies. From now on, I would like to invite all my colleagues to join me in the Unveiling of the Social Impact of AI at the core of the ENoLL's AOTF on Social Impact of Artificial Intelligence, while developing the concept of Living Labs as Regulatory Learning tools. A new amazingly interesting journey starts!

Fernando Vilariño

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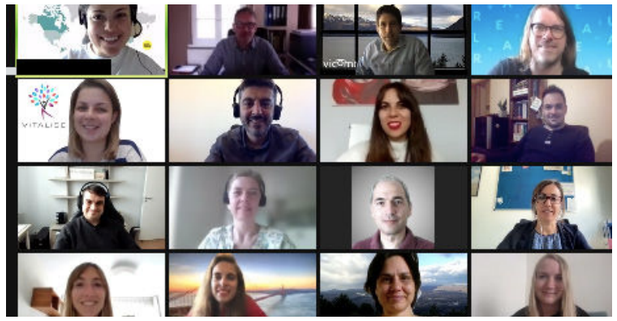
About ENoLL



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 European approach to Living Labs was created in the Unit "Collaborative working environments" of the DG INFSO (now DG CONNECT) in close collaboration with an industrial advisory group on Open Innovation (Open Innovation Strategy and Policy group – OISPG).

The original concept was updated to open innovation environments attracting inwards investment, both intellectual and financial ones. As described by the European Commission, creating of ENoLL was the first step towards a New European Innovation System, as a reaction to the urgent need to improve European-wide aspiration for innovation towards job creation and growth.

At its creation the then-Prime Minister of Finland Mr. Matti Vanhanen emphasized that "the European Network of Living Labs is a concrete action for putting Lisbon strategy in real life" .

The network and its members provide innovation services for small and medium-sized international companies, the public sector, organisations and citizens. ENoLL promotes the development of business and industry and the creation of tax revenue and jobs.

Living Labs refer to user-centred, open innovation ecosystems based on a systematic user co-creation approach integrating research and innovation processes in real life communities and settings. In practice, living labs place the citizen at the centre of innovation and have thus shown an ability to better mould the opportunities offered by new ICT concepts and solutions to specific needs and aspirations of local contexts, cultures, and creative potentials.

Since its inception in 2006, the ENoLL network has expanded and developed into a vibrant and lively community of member living lab organisations that operate by the main living lab principles such as multi-stakeholder co-creation, active user involvement and real-life intervention. By 2021 it has labelled 493 Living Labs and continues to grow.

Governing body

ENoLL Council

The association is managed by an Executive Board (the Council) consisting of at least three and maximum twenty-one members who are appointed with a simple majority by the General Assembly. The General Assembly meets every year, under the chairmanship of the Chairman of the Executive Board. Evdokimos Konstantinidis became a Chairman of the Executive Board in September 2021. The role of ENoLL Secretariat is to implement decisions passed by the General Assembly and run day-to-day operations of the network.

Leadership of the ENoLL Executive Board:

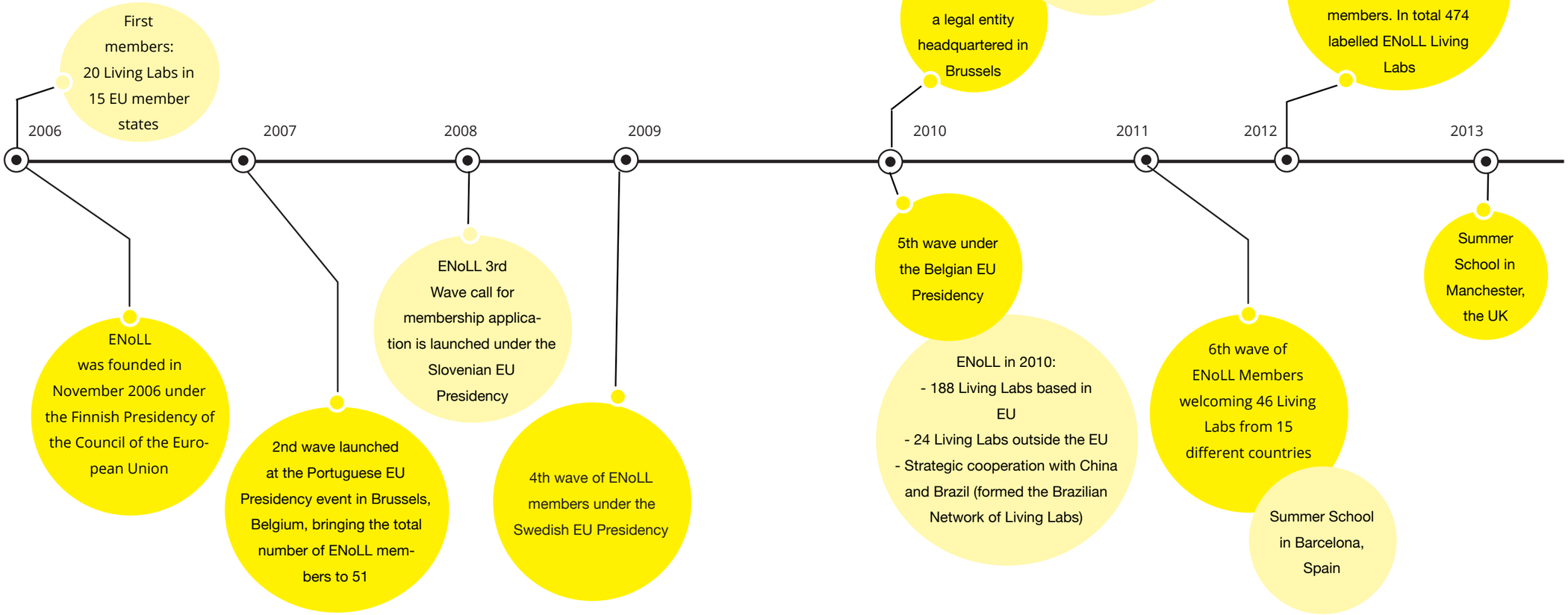
New ENoLL Secretariat body is voted, welcoming in their roles Evdokimos Konstantinidis (Thess-AHALL) as the Chairperson, Wim De Kinderen (Brainport Eindhoven) as Vice-Chairperson, Jokin Garatea (GAIA, Bird Living Lab) as the Secretary and Omer Onur (Başakşehir Living Lab) as the Treasurer.

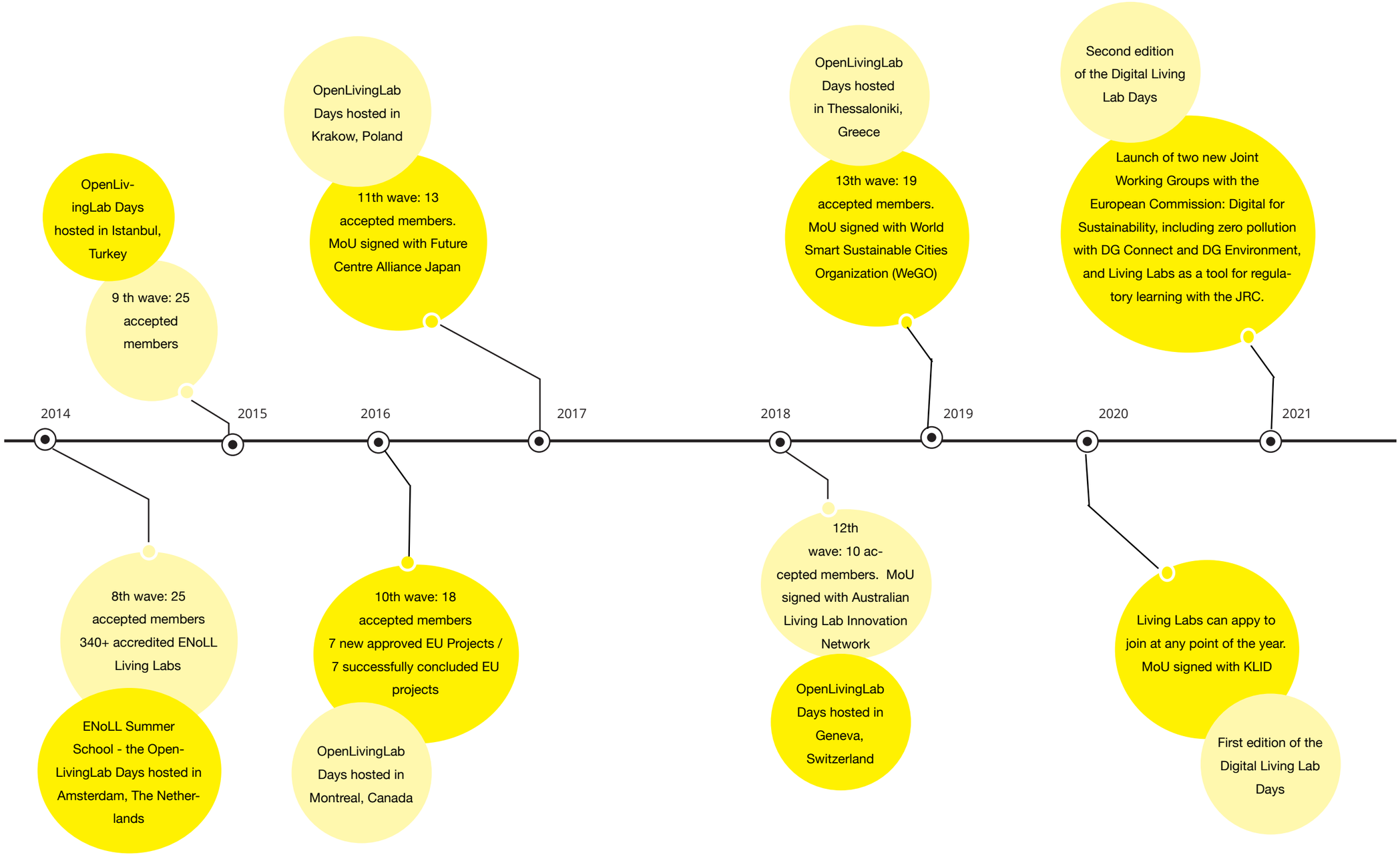
ENoLL Council Members
Evdokimos Konstantinidis, Thess-AHALL, Chairperson
Wim de Kinderen, Brainport Eindhoven, Vice-Chairperson
Jokin Garatea, GAIA, Bird Living Lab, Secretary
Omer Onur, Basaksehir Living Lab, Treasurer
Bram Lievens, imec living labs
Brigitte Trousse, France ICT Usage Lab/France Living Labs representing Francophonie LLs
Carolyn Hassan – KWMC Bristol Living Lab
Adam Olszewski, Poznan Living Lab
Joelle Mastelic, Energy Living Lab
Tuija Hirvikoski, Laurea Living Lab
Artur Serra, i2Cat
Hanna -Greeta Puurtinen, TAMK Living Lab
Luis Navarro, Guadalinfo Living Lab
Juan A. Bertolin, espaitec Living Lab
Wojciech Przybylski, Krakow Living Lab
Belinda Chen, Taiwan Living Lab
Fernando Vilariño, Library Living Lab,
Andree Woodcock, Coventry University Living Lab

ENoLl Council Members at the digital meeting (L-R Martina De Sole, Artur Serra, Tuija Hirvikoski, Omer Onur, Fernando Vilariño, Evdokimos Konstantinidis, Gerardo Romero, Koen Vervoort, Brigitte Trousse, Jokin Garatea, Josep Salanova, Joelle Mastelic).

Our milestones **2006-2021**

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.




OpenLiv-
ingLab Days
hosted in Istanbul,
Turkey
9 th wave: 25
accepted
members
OpenLivingLab
Days hosted in
Krakow, Poland
11th wave: 13
accepted members.
MoU signed with Future
Centre Alliance Japan
OpenLivingLab
Days hosted
in Thessaloniki,
Greece
13th wave: 19
accepted members.
MoU signed with World
Smart Sustainable Cities
Organization (WeGO)
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.
2014
2015
2016
2017
2018
2019
2020
2021
8th wave: 25
accepted members
340+ accredited ENoLL
Living Labs
ENoLL Summer
School - the Open-
LivingLab Days hosted in
Amsterdam, The Nether-
lands
10th wave: 18
accepted members
7 new approved EU Projects /
7 successfully concluded EU
projects
OpenLivingLab
Days hosted in
Montreal, Canada
12th
wave: 10 ac-
cepted members. MoU
signed with Australian
Living Lab Innovation
Network
OpenLivingLab
Days hosted in
Geneva,
Switzerland
Living Labs can appy to
join at any point of the year.
MoU signed with KLID
First edition of the
Digital Living Lab
Days

How we create value for members

Directly, as well as through its active members, ENoLL provides co-creation, user engagement, test and experimentation facilities targeting innovation in many different domains such as energy, environment, mobility, healthcare, agrifood, etc.

As such, ENoLL is well placed to act as a platform for best practice exchange, learning and support, and Living Lab international project development. The network seeks to create innovation-based growth for global competitiveness of Europe.

These opportunities include but are not limited to paid contributions, work on EU projects, speaking engagements at events and training sessions, and Invitations to collaborate on project proposals.

Certificate & Labelling
To join the network, Living Labs and organisations have to undergo a quality assessment process. ENoLL is the only body evaluating the maturity of Living Labs.

Action Oriented Task Forces
Living Labs can meet like-minded people, learn from their experience and use this networking opportunity to expand their business and develop new ideas. The members can join Action Oriented Task Forces, special interest groups working on different topics.

Internationalization
By joining the network, members raise their profile to the international audience. Member's profile is included in publications of ENoLL and online channels. We have also signed MoUs and increased our group profile. Some of these strategic partnerships include WeGO, KLID, ALLIN, Francophonie Liiving Labs and the Joint Research Centre.

Work on European-funded projects
ENoLL Office is actively scanning open calls for projects and tenders by the European funding agencies. ENoLL is actively involving its members in the proposals or channelling interest aimed at the network to the members when appropriate.

Global visibility
The network gives visibility to its members on a global scale, through its digital channels, annual events and representation at meetings with relevant stakeholders.

Three pillars of the network

14
LIVING LABS LABELLED

391
PARTICIPANTS AT DIGITAL LIVING LAB DAYS

6
NEW EU PROJECT STARTED

2 EDITIONS OF VIRTUAL LEARNING LAB COURSE

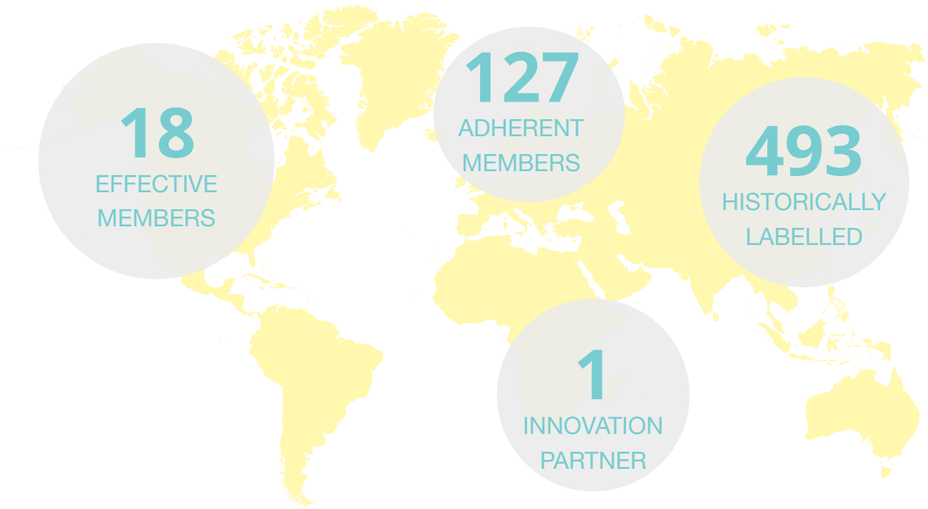
2
NEW WORKING GROUPS LAUNCHED

ENoLL members in 2021

In 2021, there were 146 active members. there were 18 Effective Members, 1 Innovation Partner, 127 Adherent Members registered. 23 Adherent memberships were closed during the period of the year 2021

To ensure high-value added exchanges within the network and quality outputs from ENoLL certified living labs, membership is limited to those organisations able to demonstrate the consistent use of a living lab approach. Complete applications are evaluated by a committee of 3 individual experts. These 3 evaluators are selected from a pool of long-standing living lab practitioners from the network. Their selection is done to ensure geographic and thematic diversity and avoid any conflict of interest. The application process for new members is open throughout the year and assessed at fixed basis.

ENoLL Living Labs are not limited to a specific region, type of organization, area of expertise, or group of people. As such, the evaluation criteria takes into account this great diversity by looking at a set of key indicators within 6 common chapters of mature ENoLL Living Labs. This assessment process helps make ENoLL a dynamic platform for quality exchange on best practices related to Living Labs.



Six common components of mature ENoLL Living Labs

- **Organization**: the organization, management and governance of a living lab
- **Users & Reality**: how a living lab is dealing with all different kinds of user engagement & how living lab processes are deployed in real life settings
- **Resources**: different available resources (infrastructures, materials…) and their potential use/service.
- **Openness**: approach in general towards open innovation and the inclusion of all the groups of the Quadruple helix.
- **Value**: outcomes of a living lab and how they create values and benefits for all the involved stakeholders
- **Business Model & plans for the future**: current business model and accessibility to funding, SWOT analysis & strategic plans.

Core Members in 2021

ENoLL Core Members are composed of Effective Members and Innovation Partners. 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 2021 there were 18 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
Guadalinfo Living Lab, Spain
Eindhoven Living Lab, The Netherlands
Energy Living Lab, Switzerland
espaitec Living Lab, Spain
i2Cat, Spain
imec living labs, Belgium
Krakow Living Lab, Poland
Laurea Living Labs Network, Finland
Library Living Lab, Spain
Living Labs Taiwan, Taiwan
Poznan Living Lab, Poland
TAMK Living Lab, Finland
Thessaloniki Active and Healthy Ageing Living Lab, Greece
Thessaloniki Smart Mobility Living Lab, Greece

Innovation Partners
Finnish Network of Universities of Applied Sciences, Finland

Labelled Living Labs in 2021

14 adherent members and 4 accepted to grow members have officially joined the network in 2021. The Living Labs which have joined the network as Adherent members are:

BELLAB (Serbia)

Located in Belgrade, Serbia, BELgrade urban living LAB (BELLAB) is a collaborative environment where citizens, the public sector, planning experts, and private companies work together to cocreate solutions in response to complex urban and climate-related challenges, e.g. climate change adaptation, disaster risk reduction and climate resilienc. BELLAB was established in 2020, as a result of inter-institutional collaboration on two Horizon 2020 projects related to climate change mapping and adaptation strategies: CLEVER Cities and TeRRIFICA.

Bodrum Living Lab (Turkey)

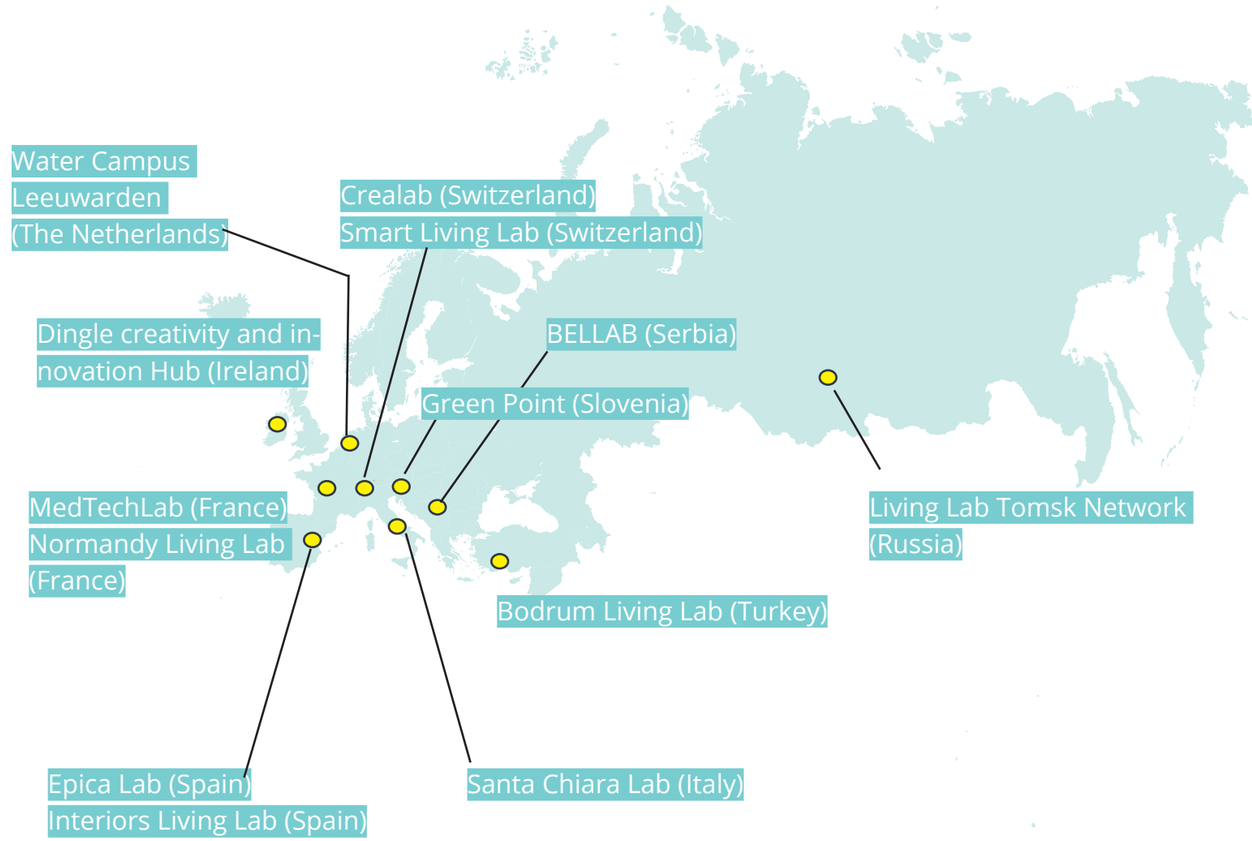
Bodrum Living Lab is an urban Living Lab located in Bodrum, Turkey. Its aim is to create economic and social value to stakeholders by enhancing the development, prototyping, user testing and implementation of innovative products and services related to agriculture, tourism, well-being, health and maritime verticals. Since 2020, Bodrum Living Lab has been cooperating with various startups, NGOs and the municipality in order to make Bodrum a more sustainable city.

Crealab (Switzerland)

Future Laboratory CreaLab at Lucerne University of Applied Sciences (LUASA), Switzrland, facilitates and promotes future-oriented and innovative, inter- and transdisciplinary research and education. CreaLab examines, showcases and promotes frameworks and methodologies that enable people to challenge the status-quo in both educational and societal contexts, through inspiring action-based formats. Founded in 2009, CreaLab grew from the interest of professors and lecturers in building a network which connects students and professionals of the university.

Dingle creativity and innovation Hub (Ireland)

The Living Lab aims to build a creative, livable and sustainable community, fostering a vibrant and diverse ecosystem of stakeholders to facilitate the creation and maintenance of well-paid, year-round jobs on the Dingle Peninsula. Engagement at all levels – community, research, industry and policymaker – is crucial for the Dingle Creativity and Innovation Hub.



Epica Lab (Spain)

Located in Barcelona, Spain, Fundación Épica La Fura dels Baus (Epica Lab) is a space for knowledge transfer and mutual learning. Based on the sum up of talents and collaborative creation. The Foundation promotes the horizontal collaboration between science, technology, and humanities, as the catalyzer for disruptive R+D+I in the new digital era and acts as a natural connector between society, academia, public administrations and companies.

Fibl On-farm Living Labs (Switzerland)

The Research Institute of Organic Agriculture FiBL is a leading research institute in the field of organic agriculture and agroecology based in Switzerland. A key characteristic of their work is their participatory research approach with an on-farm research network counting 150+ farms all over Switzerland. This participatory approach is carried out in their international projects in India,

Kenya, Bolivia, and other countries.

Green Point (Slovenia)

GREEN POINT Living Lab is located in the Pomurje region (Slovenia) and acts in the domain of Short Food Supply Chain (SFCS). Its mission is to empower cities and regions as agents of food system transformation by fostering a demo-based environment for social change. They also provide an end-to-end technological and collaborative environment where SFSC actors (SMEs, startups) can meet and use the living lab for systemic innovation in the areas of food production & processing, distribution, marketing, access and food consumption.

Interiors Living Lab (Spain)

The Living Lab by CENFIM Furnishings Cluster has a total outreach of more than 2.600 companies across Spain, involving many other entities in the EU. Its Living Lab activities cover the domain of interiors design, namely: 1) Digitization (smart spaces & Industry 4.0 technologies); 2) Circular Economy (eco-design, sustainable materials, processes and organizations); 3) Product Design (product ideation, creativity, trends analysis, user requirements definition-validation, analysis of users perception / pre-market validation); 4) Shared Value Creation (strategic Corporate Social Responsibility and 'Furnishings4Good' innovations). Interiors Living Lab has co-creation spaces in 3 cities in Spain: La Sénia (headquarters), Barcelona and Madrid.

Living Lab Tomsk Network (Russia)

The Living Lab fosters sustainability and enhances the entrepreneurial potential of young generations. It has been initiated by a team of professionals from triple helix organizations (universities of Tomsk, innovative companies and architectural bureaus, regional and city administrations), in cooperation with European partners. Its purpose is to attract and retain talents through human capital engagement in the city development.

MedTechLab (France)

The Living Lab is an interdisciplinary meeting space that incorporates new technologies in the fields of Health and Autonomy, giving the opportunity to think, cocreate, model, test, experiment and assess the use of products and/or services in a controlled environment (Living Lab/Test Bed) and in a real-life environment (medico-social and health-care Establishments).

Normandy Living Lab (France)

The core mission of Normandy Living Lab (NLL) is to put collective intelligence at the service of concrete projects beneficial for the region's influence. Thanks to its wide variety of members and its continuous work with local authorities and communities, NLL is building a life-size testing environment covering the entire Normandy, with the aim to become a vector for the cocreation of digital innovations between designers and end-users, for a wide number of economic sectors. .

Santa Chiara Lab (Italy)

Since its inauguration, the Santa Chiara Lab has been a center dedicated to the contact and hybridization of different knowledge-backgrounds, a facilitator of relations between the business world and the academic world, and a place for transversal training, hospitality and sharing. Santa Chiara Lab's strategic projects combine human, social and life sciences with new digital technologies to lead society through sustainable transformation, with a focus on the central themes of our time: sustainability, agri-food chains, digital technologies, public health, professional growth.

Smart Living Lab (Switzerland)

Based in Fribourg, Switzerland, the Smart Living Lab drives innovation through interdisciplinary research and experimentation. The pursued projects aim to provide comfort to users while developing sustainable and long-term solutions for the future of the built environment. Aligned to the Swiss innovation strategy at the heart of the Switzerland Innovation Park Network West EPFL, the Smart Living Lab contributes to developing a local innovation hub and receives the support of the Canton of Fribourg.

Water Campus Leeuwarden (The Netherlands)

At the WaterCampus Leeuwarden, innovations in the field of water technology are developed, tested, upscaled and introduced in the global market. The Water Campus employs a highly skilled staff and is equipped with high quality research and innovation facilities, including a set of real-life demo sites to test innovations in while closely cooperating with end users. Over the years, the Water Campus has become a mature Living Lab which involves roughly 300 businesses and knowledge institutions, is active in multiple European programs and has become a household name in the field of water technology.

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

Activity report 2021

Impact and Visibility

Action-Oriented Task Forces

The ENoLL Action-Oriented Task Forces are the main entry point for hot topics where the ENoLL community is having a leading role

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.

The ENoLL Action-Oriented Task Forces (AOTF) Program selects 5 topics with evidence of critical mass within the ENoLL Community, and provides support during a 2 year-term to the interest groups. In addition, working groups have been established to dive further into specific topics of the AOTFs.

Action-Oriented Task Forces:

- Social Innovation and Digital Rights
- Social Impact of Artificial Intelligence
- Rural Living Labs
- Health and Wellbeing
- Energy and Environment

AOTF Social Innovation and Digital Rights

The main challenge for this ENoLL task force is to:

- Demonstrate the social innovation impact of Living Labs
- Promote collaborative working and investment in LLs as a result of a)
- Collectively advocate for digital rights for all citizens

AOTF Social Impact of Artificial Intelligence

The AOTF on Social Impact of AI is presented as an exploratory mission: to unveil the different dimensions of the Social Impact of AI through our Living Labs. This task force is aiming at providing a practical approach to the questions related to the social transformations associated to the development of the Artificial Intelligence, in the general framework of the Digital Transformation. Living Labs appear as relevant infrastructures for the potential co-creation of products and services based on AI in Europe and the world, but fundamentally, to anticipate the societal changes needed to provide a trustful deployment of such transformations by empowering everyone to innovate without leaving anyone behind, due to the digital gap.

AOTF: Rural Living Labs

The main objective for this ENoLL Action-Oriented Task Force is to consolidate a critical mass of stakeholders –both from the ENoLL Community and externals- around strategic projects in the topic of Rural Living Labs, to jointly tackle in an efficient way the main challenges -namely: Depopulation, Sustainability, SME's digitalization, rural tourism, and Smart Agrifood- in order to facilitate a systemic transition to a sustainable innovation ecosystem.

AOTF Health and Wellbeing

This ENoLL Action-Oriented Task Force is open Community of living labs where research, innovation, methodologies and best practices on health and wellbeing are credited and shared easily, transparently and trustfully. Thus, the mission of the Task Force is to activate and boost a collaborative ecosystem among Living Labs interested in the domains of Health and Well-being, giving visibility of their added value at European and international level and attracting key actors within the public and private sector.

AOTF Energy & Environment

The AOTF tackles complex challenges related to energy and environment. This is not the first time in history that such questions arise linked to transition toward a more sustainable society. Today, scenarios of what will happen to the next generation if a collective effort is not made during the next decade are frightening.

The AOTF is generating a global movement toward a more sustainable society.

Working Groups:

- Agriculture and Agrifood
- Culture & Creativity
- Mobility
- Digital Sustainability (zero pollution)
- Regulatory learning

Working Group: Agriculture and Agrifood

This working group was born from the arising number of Living Lab methodologies which are being implemented and used within the sector of Agreocology and food value chains. In 2020, ENoLL started working together with this emerging community in- and outside our network and created the working group in 2021 with the aim to further empower deep knowledge exchange, harmonization and scalability within this area of work.

Working Group: Mobility Working Group

The working group was created in late 2020 and aims at (1) understanding the (social) impact of new mobility solutions relying on the scientific outcomes from different active Living Labs on mobility and (2) sharing experiences & lessons learnt in running a living lab on mobility (methodological & operational).

It is co-leaded by CERTH-HIT, JRC and Austriatech with the support of the ENOLL office and it is part of the ENOLL Action-oriented Task Force on "Social impact of Artificial Intelligence" led by the UAB. During the first year, 3 meetings were held with the participants, one of them during the Digital Living Lab Days of ENOLL, while internal meetings were held only with the core team. During this first year the vision of the working group was defined as follows:

"Within the EnoLL Working Group (EWG) on Mobility we transfer knowledge and create added value for mobility living labs about policy frameworks, harmonization, scalability & sustainability. A common understanding about Mobility Living Labs is the basis for organizing focused discussions & cross-living lab activities and for developing a joint position at EU-level."

Working Group: Culture & Creativity

The COVID pandemic had a huge impact on everyone in this world the complete 'creative' sector suffered heavily since almost every event in the cultural sector was cancelled.

Many of our members got together with the aim to position arts and creative industries as agents of change and places for innovation. The first step was to organize an ENoLL session around Music & Living Labs.

The working group on culture and creativity is led by GAIA in close collaboration with the AOTF on Social Innovation & Digital Rights.

Working Group: Digital Sustainability (including zero pollution)

This is a joint working group with the European Commission.
The overall objective is to mobilize Living Labs to answer a calling question: How can Living Labs support their cities/regions in becoming Green and Digital (and/or through Digitization) and how they can have a real impact in society by supporting decision / policy making?

The expected outcomes are:

- set of recommendations that can be addressed to Policy makers, the LL themselves and Cities together with a list of KPIs to assess their efficiency/effectiveness.
- Raise awareness with the Cities of the opportunity of using LL to become green and digital Cities and achieve Zero Pollution objectives.

Working Group: Regulatory Learning

This is a joint working group with the Joint Research Centre (JRC) of the European Commission.

ENoLL, together with the JRC, continues its efforts to mainstream living labs in EU policy-making. By connecting ENoLL's community of living labs and JRC's position at the research-policy interface in the European Commission, we have the opportunity to further develop and promote living labs as a participatory and responsive policy-support instrument.

The working group aims to explore how to embed regulatory learnings in a structured way in living lab projects with a view to supporting implementation of innovation projects and regulation.

Living labs are never purely technical but come with various governance and regulatory implications. In running living labs, innovators need to fit their complex innovation projects into existing regulatory frameworks. Understanding and managing multiple regulatory rules and guidelines can be demanding in terms of time and knowledge.

Strategic highlights 2021

MEMORANDUM OF UNDERSTANDING SIGNED WITH EU JOINT RESEARCH CENTRE

ENoLL has signed a Memorandum of Understanding (MoU) with the Joint Research Centre (JRC), European Commission's science and knowledge service. The MoU signed between ENoLL Chairperson Fernando Vilariño and Director General of JRC, Stephen Quest was presented at the General Assembly meeting on Friday 30th of April 2021.

Looking back at earlier cooperation with the JRC, the ENoLL Chairperson remembered different visits of the ENoLL representatives to ISPRA and co-creation of the strategy for Living Labs at the Joint Research Centre. Next to that, Artur Serra (i2Cat, AOTF lead) has been developing Policy Labs with the Sevilla branch, while Joëlle Mastelic (Energy Living Lab, AOTF lead) has cooperated on energy and sustainability sector.

Vilariño also added that this MoU is a starting point in which we are aligning our mission of empowering everyone to innovate through the Living Lab approach and co-creating a better future for Europe.

Stephen Quest the Director General of JRC echoed the sentiment and added that the MoU is going to steer the future collaboration between the JRC and ENoLL. As Quest said "*we see this partnership as indispensable*" and [we are] "*keen to foster the connection between the Living Lab community and EU policy making*". He also added that the MoU will provide a good framework to build on the existing cooperation and that this partnership will support future direction for Living Labs. Quest concluded that JRC and ENoLL can together address issues related to scalability and replicability of Living Lab solutions.

TWO NEW WORKING GROUPS LAUNCHED

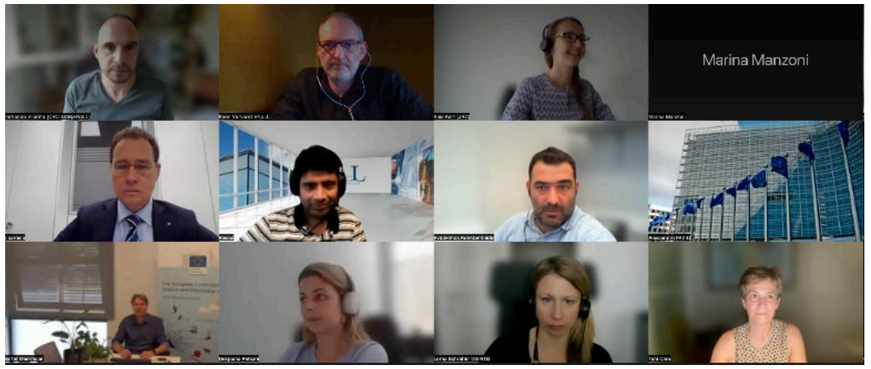
We have launched two new joint working groups, with the European Commission and the Joint Research Centre.

The two working groups are:

- Digital Sustainability (including zero pollution)
- Regulatory Learning

More information on the two working groups can be found on page 29.

Working group meeting



ENoLL's 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.

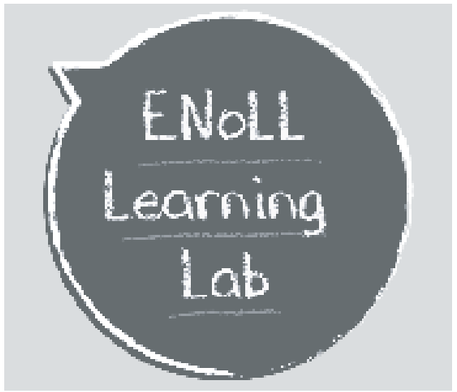
The ENoLL Capacity Building transforms your organisation through a Living Lab approach:

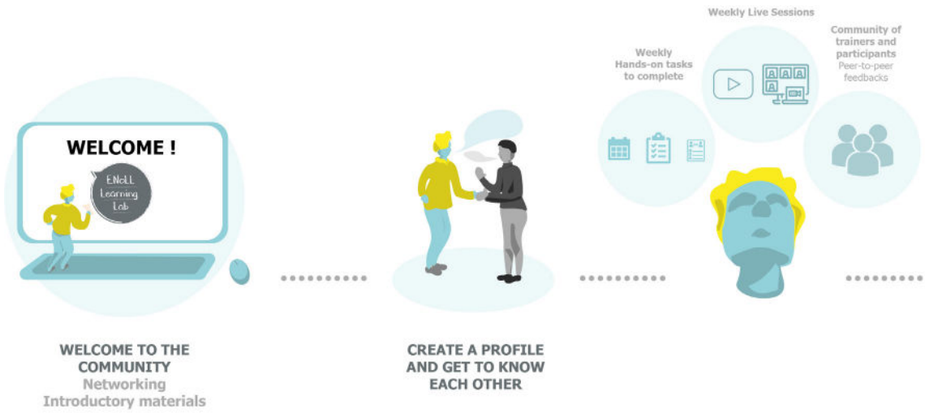
(1) **The Virtual Learning Lab, a virtual training course on Living Labs, was created in 2020 in response to the COVID-19 pandemic. The 8-week long training course continued in 2021 with a Spring and a Fall edition.**

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.





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/

ENoLL in European funded projects

ENoLL is active in many different areas of work to strengthen the impact that Living Labs can generate. As a project partner we are focusing on Living Lab development, capacity building and scaling-up of solutions and services.

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.

Website: https://social-and-creative.interreg-med.eu/

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.

In 2021, ENoLL contributed to the handbook on Barriers to adoption of Urban Living Labs, published bu the Technical University of Eindhoven.

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. The project kicked off in March 2021.

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.

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. In 2021, the CCLL framework was developed inspired in the LL integrative process, and it was approved by the project partners.

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.

Highlighted events

ENoLL joined the 5th Annual Forum of the EU Strategy for the Adriatic and Ionian Region

The virtual forum under the slogan “Strengthening the resilience of the Adriatic and Ionian Region through cooperation” took place on 28 – 29 January 2021. It was jointly organized by the Republic of Serbia, the European Commission and with the support of the EUSAIR Facility Point.
ENoLL Vice-Chair Wim de Kinderen (Brainport Eindhoven) joined the panel discussion on “Imagining post-COVID EUSAIR –How to cooperate in the new reality? The twin digital and green transition as a regional response to the Covid-19 crisis”. De Kinderen introduced the Living Lab methodology to the audience and demonstrated how Living Labs can help create better solutions to existing challenges through citizen participation.

Living Labs presented at the Urban Sustainable Mobility conference

On 16 December 2021, the Living Lab methodology was presented at the Latin American conference organised by SIMUS tackling the topic of sustainable mobility. Josep Maria Salanova Grau from Thessaloniki Smart Mobility Living Lab and Marta de los Rios, ENoLL, International Project Manager presented the network and the methodology.

Presenting Living Labs to a Mexican audience

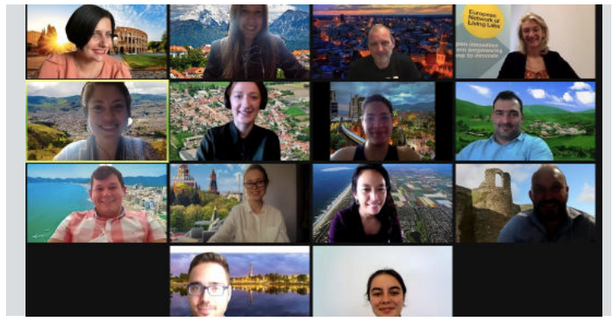
On 29 June 2021, Fernando Vilariño presented Living Labs at the web conference organised by Universidad Tecnológica de Nezahualcóyotl (Technological University of Nezahualcoyotl). The conference titled the “Division of Environmental Technology and Sustainable Lab” featured presentations from Mexican speakers on the wide array of topics – water, dual model, earth chart and the likes.

Co-creation of empowering Smart Cities through Citizen engagement webinar

Chairpoerson Evdokimos Konstantinidis gave a keynote speech at the webinar organised by an ENoLL strategic partner WeGo. The webinar reinforced the importance of building citizen-centric cities and taking into consideration the needs of local communities. The webinar was held on 09 December 2021.

Activity report 2021

Digital Living Lab Days 2021



"Change the future together: Co-creating impact for more inclusive, sustainable & healthier cities and communities"

The 2021 edition of the Digital Living Lab Days saw the community meet digitally for the second time between 6-10 September 2021. The theme of the event was "Change the future together: Co-creating impact for more inclusive, sustainable and healthier cities and communities".

391 participants attended the event which spanned over 5 days. The agenda was filled with 72 sessions, includingn 2 High Level Panels, 16 Topic Debates, 12 Interactive Workshops,m6 Inspirational talks, 24 Research Papers from 6 DifferentnTracks, 2 Proposal Matchmaking Sessions and 10 NetworkingmSessions.

Reflecting the strenghtened relationship between ENoLL and the Joint Research Centre of the European Commission through a Memorandum of Understanding, Delilah Al Khudhairy, Director of Competences, gave her keynote speech. The Highl Level Panels included representatives from the European Commission and Porto Digital, while inspirational speakers from UNESCO, Hybird City Lab, IBM, Saint Luc Arts College, JRC and Dublin City University had short interventions that reflected the theme of the conference.

Reflecting on the outcome of the event, the Chairperson of ENoLL, Evdokimos Konstantidis said that "*The Digital Living Lab Days Conference 2021 achieved its goal to bring together the Living Lab community with policymakers, in-field experts, researchers and innovators.Together, we explored untapped ways and shared experiences on the empowerment of digital & open innovation for everyone to promote & enhance the effective addressing of society's real-life challenges*."

The second digital edition was held during challenging times which have re-defined the way we work and interact with each other, as was emphasized by the ENoLL Director Martina De Sole. In addition, she stated that:

"With so many complex problems facing society and the planet our mission is more and more important and we at ENoLL are willing to facilitate and expand the impact of living labs worldwide"

24
Research Papers

12
Interactive workshops

72
Sessions on the agenda

391
Participants

Research papers

Veli-Pekka Niitamo awards

Best Research Paper

Human Factors in Living Lab Research by Nele A.J. Dewitte, Leen Broeckx, Sacha Vermeylen, Vicky Van Der Auwera & Tom Van Daele

Best Practitioners Paper

The key role of a Living Lab in creating a block-chain-based digital ecosystem to support local businesses by Elena Marchiori, Jan Trautmann & Robert Bregy

Best Public Paper Award

Agroecology living labs: defining characteristics and key components of their successful orchestration by Maria Kiseleva

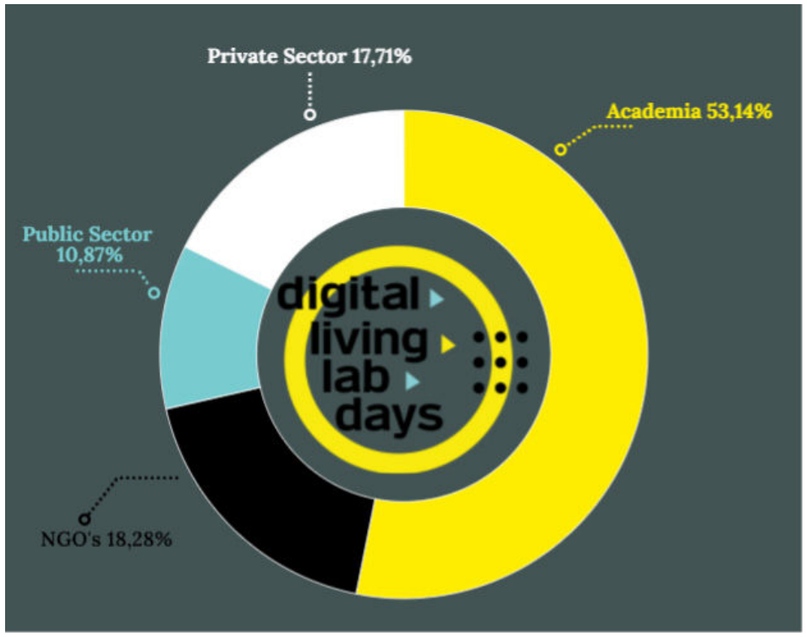
6 Conference tracks

The sessions of the conference were divided onto 6 tracks:

- Culture and Creativity in disruptive times of change
- Urban & Rural resilience
- Health & Wellebing
- Challenges & Collaborations for Living Labs
- Digital Social Innovation
- Living Labs for a Greener future

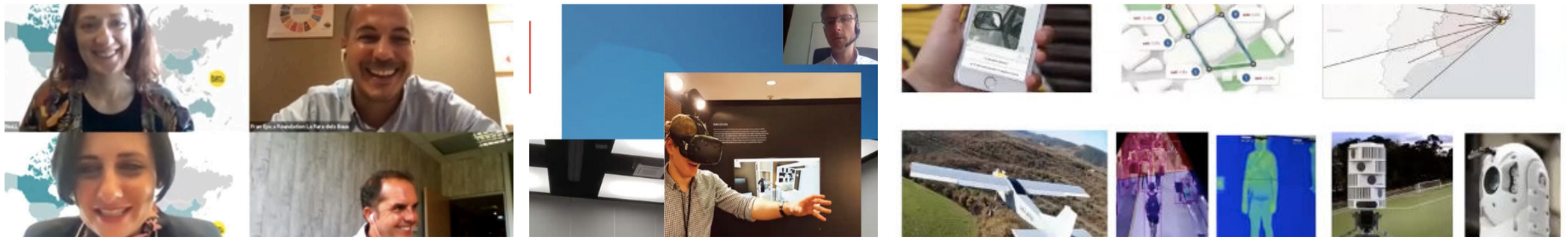
Each track featured topics debates, workshops and research papers. In addition, the track on Culture and Creativity in disruptive times of change also saw a proposal call matchmaking session, which supported all the living labs members to start drafting together a set of ideas by looking at several Horizon Europe calls for proposals related to Open Innovation.

PROCEEDINGS: https://issuu.com/enoll/docs/dlld_2021_-_proceedings



Graph showcasing the distribution of paritipants regardin their sector of work

EVENT REPORT: https://issuu.com/enoll/docs/dlld21_report_design



Online Visibility in 2021

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 2021, ENoLL's Social Media had the following number of followers/subscribers or likes:

3.100
Newsletter subscribers

3.091
Views on vimeo

8.360+
Twitter followers

4.743
ENoLL Facebook group followers

1000
OpenLivingLab Days Facebook group followers

1.788
LinkedIn page followers

4.550
Members of the Living Lab group

ENoLL Office

ENoLL Office is based in Brussels, Belgium. The Office works on daily operations of the network, advocacy at the European level, promotion of the Living Lab concept and ENoLL members at international events and conference and organisation of events for the Living Lab community among other tasks.

Martina De Sole joined the team as the Director of ENoLL, starting her new position on 23 August. With over 20 years of experience, working at organisations including APRE – Agency for the promotion of European Research, Martina becomes a pivotal member of the team focusing on strategic and operational matters. With Martina joining the team, a new exciting chapter begins for the European Network of Living Labs and she will continue building on the work of the former Director Zsuzsanna Bodi and Acting Interim Director Koen Vervoort.

Upon assuming the position Martina said: "I am very excited to start this new chapter of ENoLL and I am looking forward to work with an amazingly qualified and passionate team. I strongly believe that ENoLL's role and mission are very important especially now, in this complicated moment in time, where co-creation and open innovation need to play an increasingly bigger role from the design to the implementation of the present and future policies."

The ENoLL Office team of 2021, consisted of Koen Vervoort (Network Builder and Acting Interim Director), Leidy Enriquez Florez (Junior Project Manager and Executive Assistant), Spela Zalokar (Communications Officer and International Project Manager), Ines Vaittinen (International Project Manager and Capacity Builder), Marta de los Rios White (International Project Manager), Francesca Spagnoli (Head of Projects), Marc Bouchet (Finance Officer & Office Manager) and Maria Kiseleva (Executive assistant and Junior Finance Officer).

ENoLL staff (L-R, Leidy Enriquez, Danielle de Boer, Maria Kiseleva, Koen Vervoort, Martina De Sole, Joanna Karas, Francesca Spagnoli, Marc Bouchet and Spela Zalokar after the Digital Living Lab Days 2021 event at the premises of the ENoLL office)

The team was also supported on part-time basis by Zsuzsanna Bodi (Senior Strategic Advisor), Joanna Karas (Consultant), Danielle de Boer (Senior International Project Manager & Business modelling), Monica Nagore (External expert for Social & Creative project) and Ot Puy who is working on DT4REGIONS project.

Interns Dilara Elmas and Raul Miguel De Leon supported the team in the organisation of the Digital Living Lab Days.

Get in touch

Address: Avenue des Arts 6, 1210 Saint-Josse-ten-Noode, Brussels, Belgium
Email: info@enoll.org

Website: www.enoll.org
Facebook: ENoLL- European Network of Living Labs
Twitter: @openlivinglabs
Flickr: https://www.flickr.com/photos/enoll/
LinkedIn: https://www.linkedin.com/company/enoll-european-network-of-liv¬ing-labs-
Vimeo: https://vimeo.com/openlivinglabs
Issuu: https://issuu.com/enoll?issuu_product=header&issuu_subproduct=publisher-home&issuu_context=link&issuu_cta=profile
SlideShare: http://www.slideshare.net/openlivingla-bs/presentations