

Morning Health Talks 2025



Engaging the Value of Living Labs to Innovate Care and Regulatory Environments

Living Labs as Tools for Collaborative Innovation in Health

1st Morning Health Talk – Greece

“Co-Creating Health Innovation Ecosystems: Empowering Providers and Citizens Beyond Financial Incentives”

2 June 2025, Athens, Greece

Lab of Medical Physics and Digital Innovation, AUTH | European Network of Living Labs (ENoLL)

Evdokimos Konstantinidis, Postdoc researcher | Vice-chair, Health LLs WG Coordinator

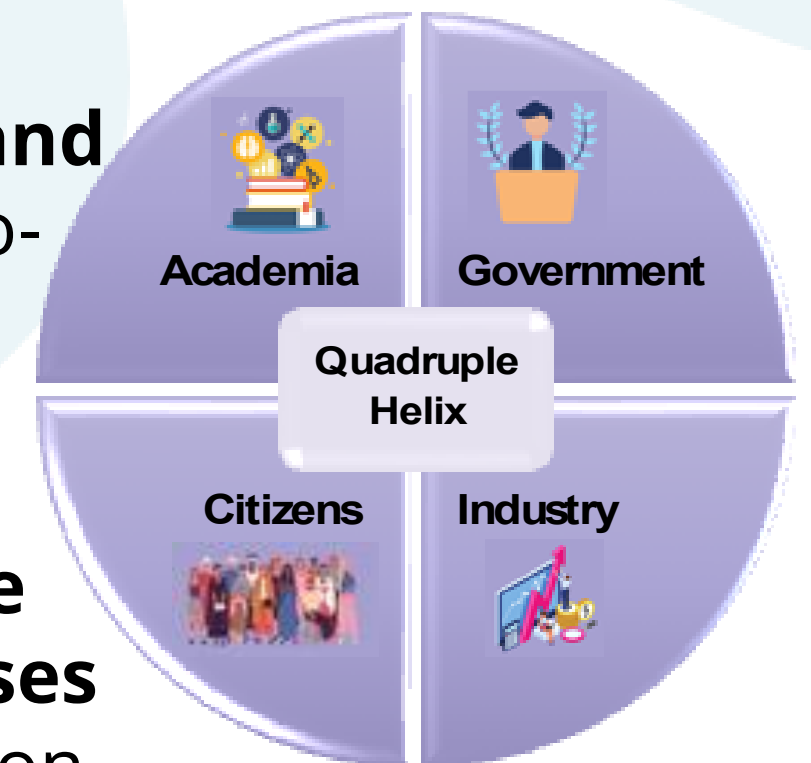
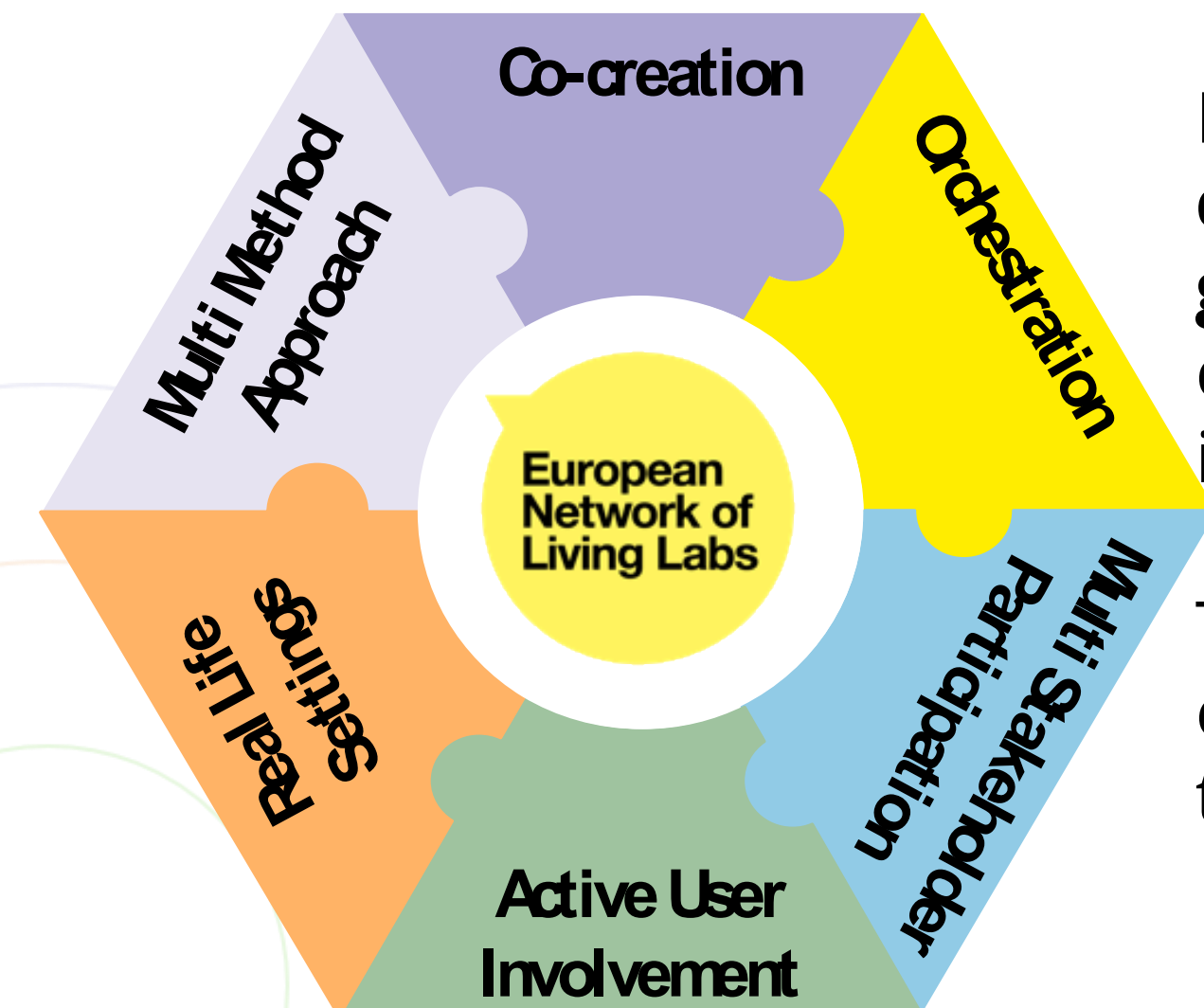
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What are Living Labs?

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

Living Labs operate as **intermediaries** among **citizens, research organisations, companies and government** agencies or levels for joint-value co-creation, rapid prototyping or to scale up innovation and businesses.

They are open innovation ecosystems in **real-life** environments using **iterative feedback processes** throughout the lifecycle approach of an innovation



LLs are open innovation ecosystems

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

OPEN INNOVATION



Nick Skillicorn

"Any variation goes, as long as it includes 'new' and it addresses customer needs and wants"

Robert Brands

@innovationrules

**anything that is
new, useful, and surprising**

Drew Boyd

@DrewBoyd

idea

**"STAYING
RELEVANT"**

Stephen Shapiro

@stephenshapiro

USER DRIVEN INNOVATION

EVOLVE2CARE



Funded by
the European Union

LLs in real-life environments

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



Ethics Manager



Doctor/nurse



Family



Patient



Psychologist



Wearable sensor



Actively involved stakeholder in a long-term plan: What's in it for them?



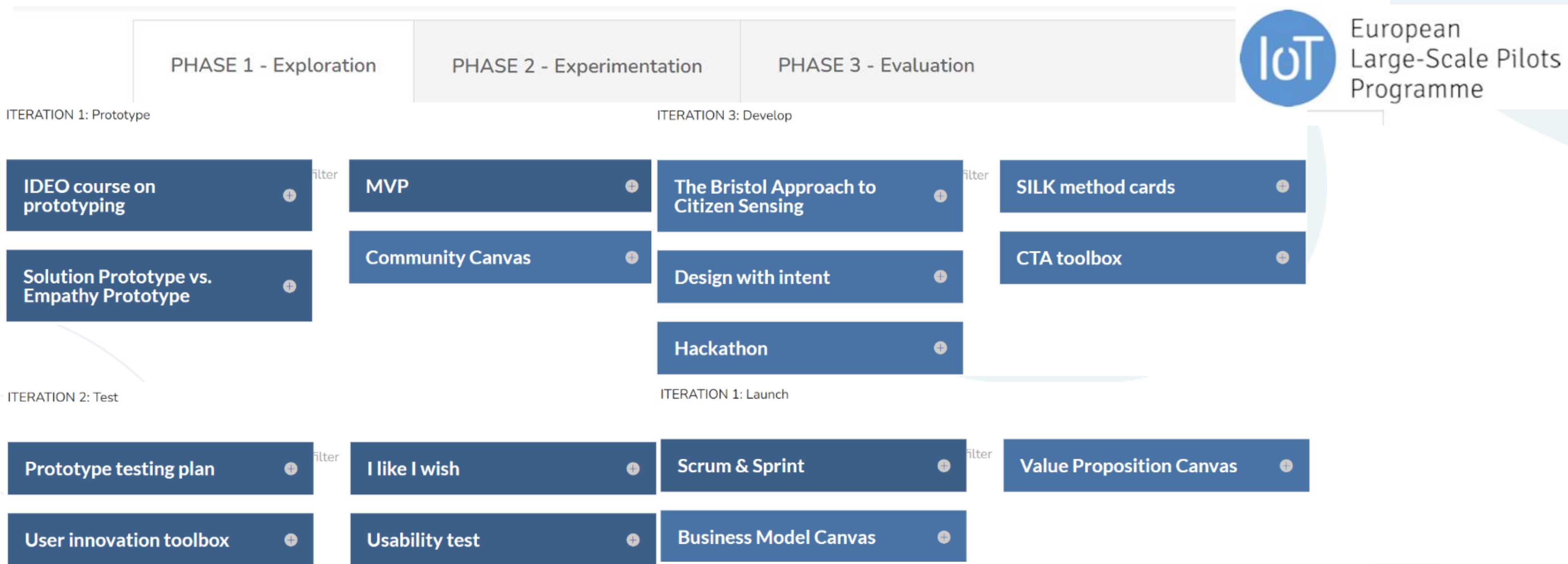
LLs are based on systematic user co-creation approach

Is quadruple helix something new?

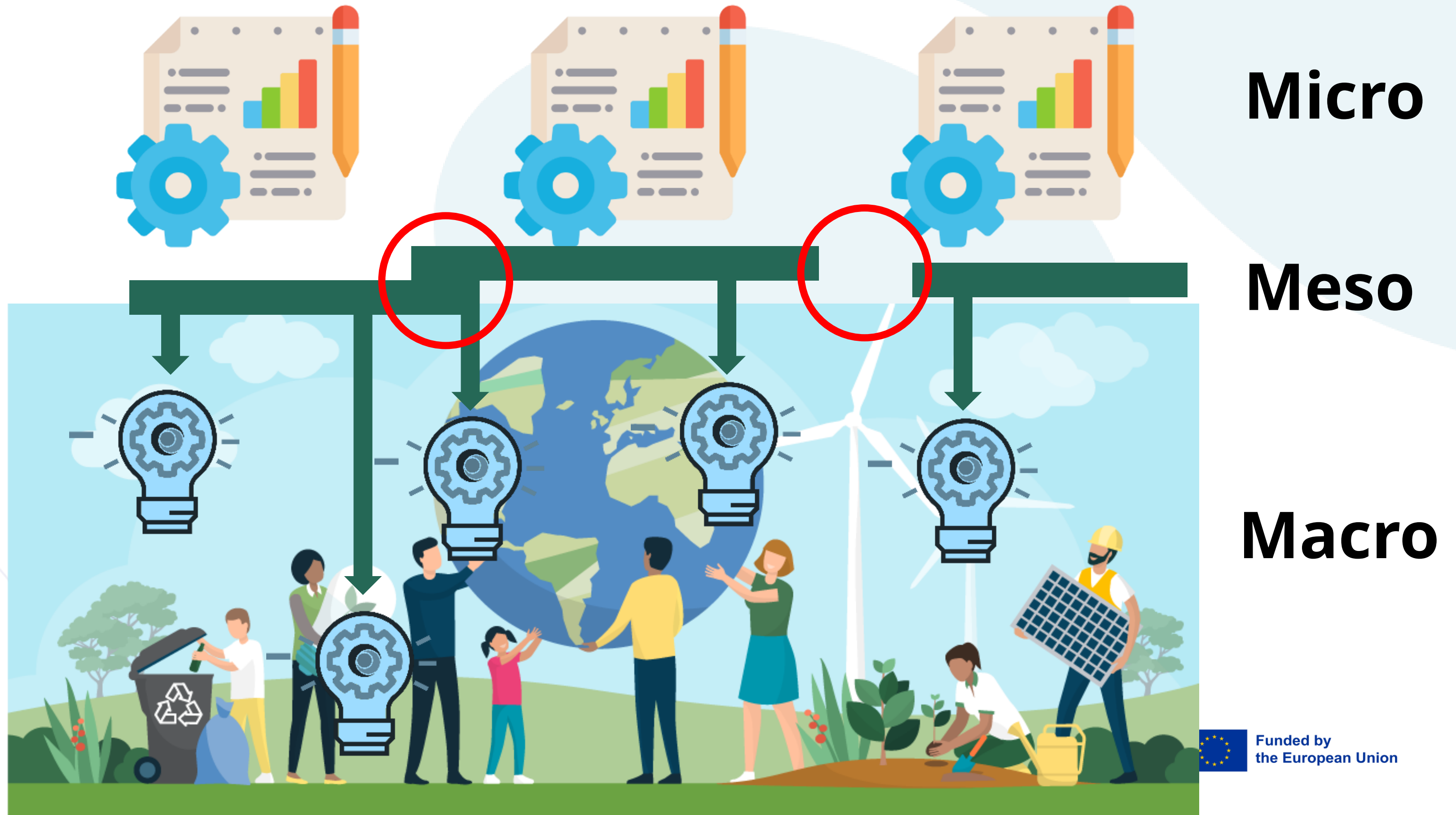
1. Carayannis, E.G.; Campbell, D.F.J. (2009). "'Mode 3' and 'Quadruple Helix': toward a 21st century fractal innovation ecosystem". *International Journal of Technology Management* 46 (3/4): 201–234.
doi:10.1504/IJTM.2009.023374. https://edisciplinas.usp.br/pluginfile.php/3572572/mod_resource/content/1/8-carayannis2009.pdf.



LLs are based on systematic user co-creation approach



Living Labs ≠ projects



Living Lab R&D services



Access to data, **C**apacity building, **C**linical trials, **C**o-creation session, **C**ompetitor and market analysis and benchmarking, **C**oncept and proof-of-concept tests – feasibility study, **E**quipment and facility rental service, **E**xpert opinion, and advisory services, **F**oresighting (trends, weak signals and wild cards), **G**rant writing / Preparation, **I**dea selection and testing, **I**mpact assessment and validation test, **I**nnovation network orchestration, **I**ntake and matching, **L**arge-scale real-life testing and piloting, **L**egal regulation and safety standard support, **L**iving lab project planning and management, **M**arketing sales, and networking support, **P**anel management, **P**ost-market surveillance and market acceptance testing, **P**rototyping test, **P**ublic procurement support services, **S**imulation test, **S**mall-scale real-life testing and experimentation, **S**takeholder analysis, **T**emporary research funding, **U**sability testing, **P**articipant recruitment, **E**thics Application Management

Living Lab as Research and Innovation Enabler

State-of-the-art technology and equipment



Providing facilities and resources on demand



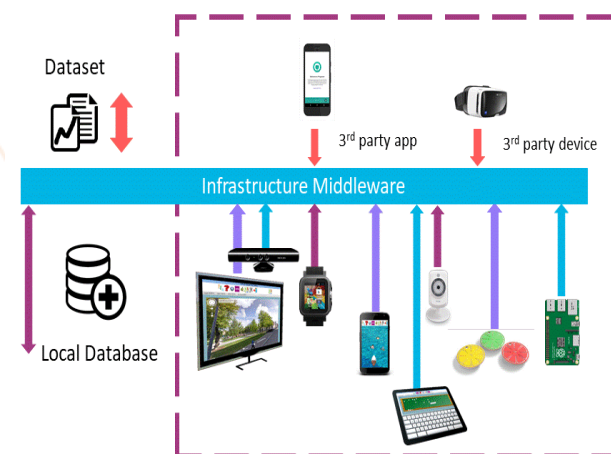
Capacity building programs



Ethical considerations and Data management



Support Interdisciplinarity and are easily accessible



Open and transparent, with clear guidelines for access



Quality control

	Green	Orange	Red
s	9	0	5
s)	7	2	1

Living Labs as Research Infrastructures

17 | Research Infrastructures

9 | Living Labs

7 | Countries



McGill
CRIR
rehabilitation
Living Lab



INTRAS
MIND lab for AHA
Rehabilitation
Living Lab
VR/AR and
Snoezelen room



POLITÉCNICA

UPM-LifeSTech
The Smart House
Living Lab



Laurea
Simulated Hospital
Activity Living Lab



GAIA
Smart
Spaces
Ocean Living
Lab for
rehabilitation



LiCalab
Experience lab
Gaitlab - Mobilab
Older adults' homes



AIT
Technology Experience Laboratory



Trebag
Nagykovácsi Wellbeing Living Lab



AUTH
Living environment simulation
Health care transition Living Lab
Centrifuge rehabilitation Living Lab

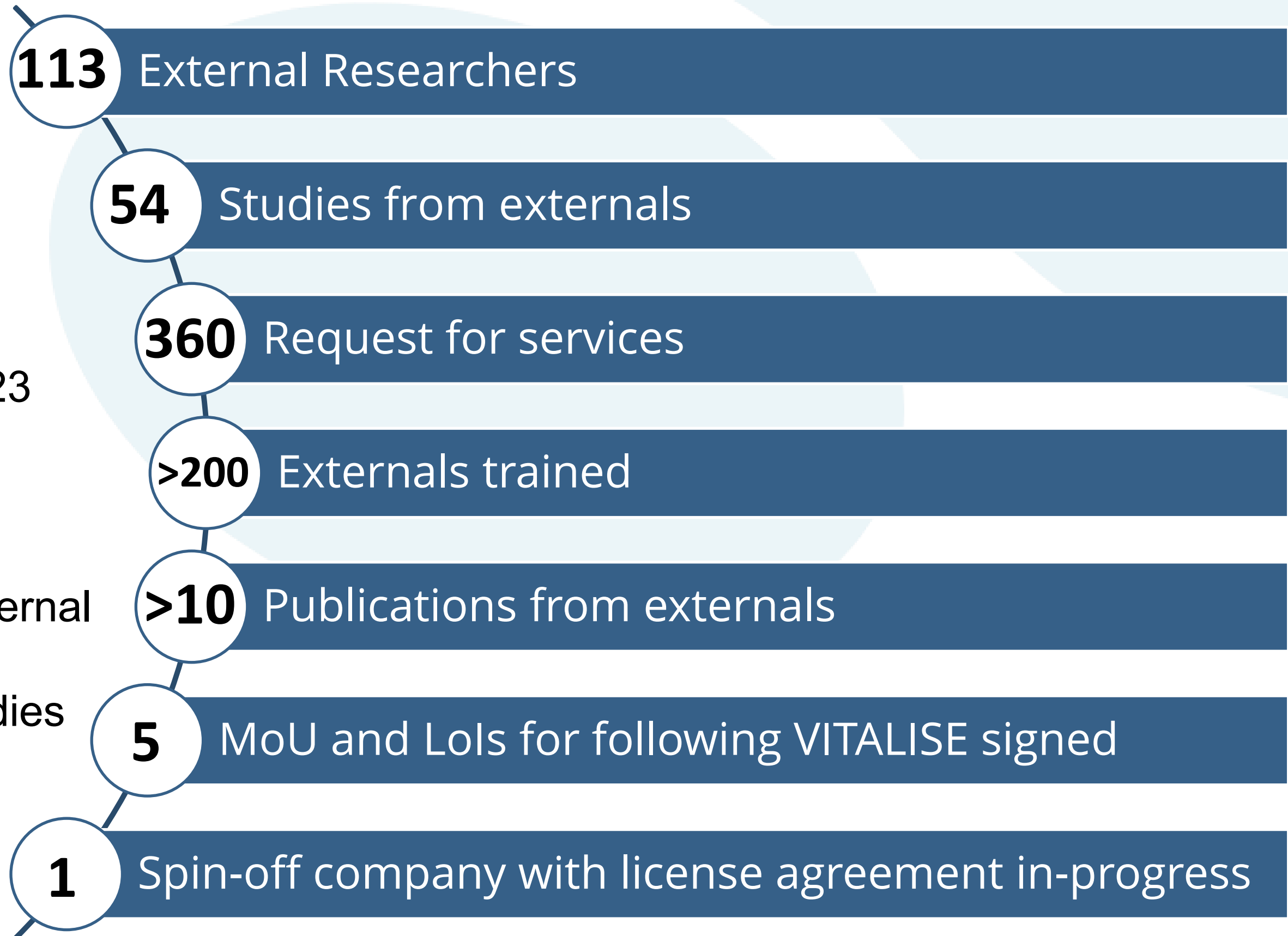
Transnational Access



3 | Open Calls March 2022,
December 2022 & May 2023

17 | Virtual & Transnational
Access Infrastructures

>€400k | Provided to external
researchers for
conducting studies



ThessAHALL – Healthcare Transitions Living Lab “Asterios Karagiannis”



"ASSURE" project (ID34)

Automatic dysphagia Screening through artificial intelligence," a revolutionary non-invasive tool designed to screen Dysphagia among older adults



“ASSURE” project (ID34)

Services used

Services Requested	Services Used
Clinical trials	Capacity building
Co-creation session	Co-creation session
Expert opinion, and advisory services	Equipment and facility rental service
Panel management	Expert opinion, and advisory services
Usability testing	Intake and matching
Participant recruitment	Legal, regulation and safety standard support
Ethics Application Management	Living lab project planning and management
	Panel management
	Simulation test
	Small-scale real-life testing and experimentation
	Stakeholder analysis
	Participant recruitment
	Ethics Application Management

"ASSURE" project (ID34)



8h/3d

Technical manager



54h/29d

LL manager



17h/12d

Ethics and Security manager



47h/18d

Supportive staff



44h/13d

Doctor / Expert



2h/1d

Admin / Financial

Total: 170h/30d



16h/9d

Principal Investigator



89h/21d

External Researcher

Total:

176h/23d



71h/17d

External Researcher



8 patients (2h/p)

Patient



18 healthy (2h/p)

Healthy control

Total: 52 hours

Living Lab services used (45 studies)



The background of the image is a dense, colorful field of various small icons. These icons include symbols for social media, technology, nature, and general communication, all rendered in a vibrant, hand-drawn style. A magnifying glass with a black handle and frame is positioned in the center-right of the image, its lens focused on a small cluster of icons. Overlaid on this scene is the text 'Looking for datasets?' in a large, bold, white font with a thick black outline, centered horizontally across the middle of the image.

Looking for datasets?

High quality datasets

Well described dataset

Rich metadata

Interoperable

Following standard formats

**Common
metadata schema**

...


 **eosc**



 Lets you offer homes
for rent

 **Guests**
Travelers book homes

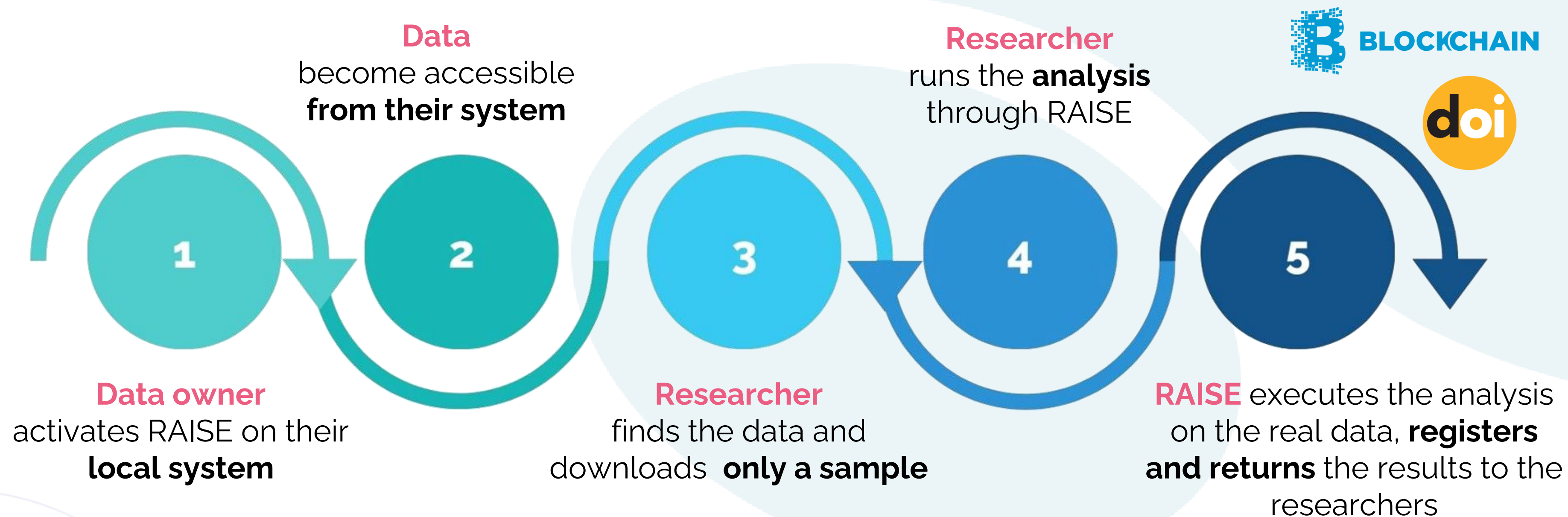
RAISE

 Lets you give access to your
datasets **stored only** on your
premises

 **Visiting Algorithms**
Algorithms visit datasets

*Like **AirBnB** lets you visit homes, **RAISE** allows your algorithm **visit**
the data you need*

DATA VISITING LIFE CYCLE



We are live at portal.raise-science.eu



<https://documentation.raise-science.eu>



info@raise-science.eu

Living Labs in the Research Infrastructures' context



VITALISE Living Labs featured as Best Practice of SSH in Research Infrastructures (RIS) at the "Integration of Social Sciences and Humanities in Horizon 2020 report" (among 51 funded projects)



Best practises example:

TOPIC INFRAIA-02-2020 Integrating Activities for Starting Communities	<p>This topic aims to address the lack of support for integrating infrastructures of starting communities in previous funding programs. The aim is to mobilize a consortium of research infrastructures, stakeholders, and public authorities from different countries and to provide trans-national and virtual access to European researchers. To achieve the goal it encourages networking, trans-national access, and joint research activities to improve services, harmonize procedures, and foster cooperation among research infrastructures, scientific communities, and industry.</p> <p>The goal is to ensure effective access to research infrastructures for European researchers, promote innovation through partnerships with industry, and facilitate the sharing of knowledge and technologies across disciplines and between academia and non-academic stakeholders. Additionally, the integration of infrastructures and harmonized access can contribute to evidence-based policy making and enhance the socio-economic impact of past investments in research infrastructures.</p>
PROJECT VITALISE - Virtual health and wellbeing living lab infrastructure Year: 2020	<p>VITALISE represents a pioneering effort to harmonize living lab services and procedures, with the potential to serve as a framework for other domains. The project aims to demonstrate the value of living labs as research and technology infrastructures, while fostering collaboration and standardization in the field. The project aims at harmonizing procedures and promoting research activities in the health and well-being domain through the integration of living labs. Living labs are real-life settings that facilitate research and innovation processes by actively involving end-users in the development of solutions. VITALISE focuses on providing convenient access to research infrastructures, engaging people in the validation of hypotheses, and incorporating expertise from various disciplines.</p> <p>One key aspect of the project is the development of ICT tools for shared access to devices and applications used across living labs. This integration allows researchers to access and utilize similar resources and datasets, enhancing collaboration and standardizing procedures. Additionally, VITALISE establishes a harmonization body to streamline the operations of health and well-being living labs, ensuring consistency and compatibility. VITALISE enables researchers to access 17 living lab research infrastructures through in-person transnational access and remote digital access to datasets. The project aims to bridge the gap between different stakeholders, such as citizens, patients, doctors, research organizations, companies, and government agencies, fostering joint-value co-creation and rapid prototyping. VITALISE invests in the development of training methods to promote a wider understanding and utilization of living lab methodologies within the research community. By harmonizing procedures, providing shared access to resources, and facilitating collaboration, the project seeks to advance research in the health and well-being domain, not only in Europe but also globally.</p>

7. Science with and for Society (Swafs)

In 2019 -2020, SWAFS funded 38 topics. The budget for these topics was € 212.3 million. **Five out of 38 topics** were flagged for SSH. These topics funded 14 projects for a budget of €22 million, of which €18 million (i.e. 81.8%) went to SSH partners.

Conducting research
in clinical
environments



Enabling
researchers to
conduct clinical
studies

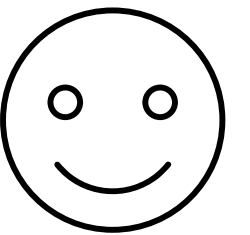


Barriers vs Value of Research

- 🕒 **Time constraints**
- 📖 **Lack of training**
- 💼 **Low incentives**
- 🏢 **Organizational barriers**
- 🧠 **Weak research culture**



- 💡 **Drives innovation**
- ❤️ **Improves patient care**
- 👩 **Empowers professionals**
- 🔄 **Supports evidence-based practice**
- 🌱 **Leads to better outcomes**



Real-world
setting

Co-creation



Research
integration

Clinical
impact

EVOLVE2CARE

Engaging the Value Of Living Labs to Innovate Care And Regulatory Environments



Homecare monitoring



Hospital Discharge management



Ageing population and care transitions

Our partners:



ΑΡΙΣΤΟΤΕΛΕΙΟ
ΠΑΝΕΠΙΣΤΗΜΙΟ
ΘΕΣΣΑΛΟΝΙΚΗΣ

European
Network of
Living Labs



Sploro
disrupting innovation



Funded by
the European Union

Specific Needs



Transitional care improvement

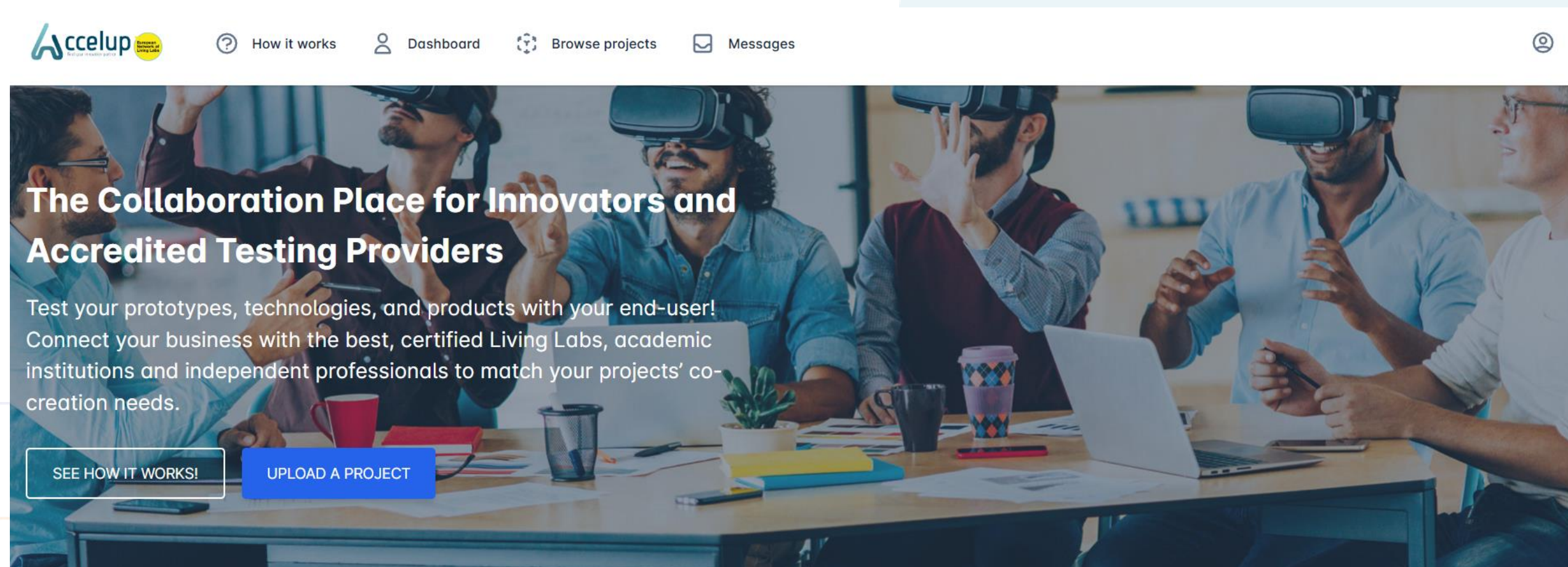
Improved patient/caregiver status, technology, education or coordination of stakeholders



Faster go2 market in Health-tech innovations

Quicker response to healthcare needs, developing fast competitive advantages and rapid regulatory compliance

Accelup – Offering LL services



<https://accelup.eu/home>

Open calls powered by the Accelup platform!

*Are you a researcher, or an entrepreneur?! Do you work at R&D for HealthTech?! **Let's connect!***

EVOLVE2CARE will open up an network of Living Labs to innovators **to experiment and validate research outcomes** for the Transitional Care sector! The hosting Living Labs will be recruited through **the Accelup Platform, an online space for wider, simplified, and more efficient** access to the best Living Lab infrastructures and **their research on demand services.**



Funded by
the European Union





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Living Labs can act as enablers of clinical research!



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 <https://evolve2care.eu/>  info@evolve2care.eu

 <https://www.facebook.com/Evolve2CareHorizonEU/>

 <https://www.linkedin.com/company/evolve2care-horizoneu>

 <https://www.youtube.com/@Evolve2CareHorizonEU>



**European
Network of
Living Labs**

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