

[Home](#) → [Members details](#) → SEAMK Food Living Lab of Agroecology

MEMBER

SEAMK Food Living Lab of Agroecology

Living Lab SEAMK | Finland

SeAMK FOOD LABS

The SeAMK Food Living Lab of Agroecology (LL) mainly operates within the agricultural primary production sector. The LL's efforts encompass a range of sustainable practices designed to enhance soil health, increase biodiversity, and integrate renewable energy sources into farming operations. Additionally, there is a strong emphasis on close collaboration with other parts of the food system to ensure that improvements in primary production positively impact the broader agricultural and food industries.

Aim

By being part of the European Network of Agroecology Living Labs and Research Infrastructures, the LL aims to further enrich its contributions to agroecological research and practice, leveraging the network's resources to foster innovation and sustainable practices across our activities and beyond. This ultimately benefits our stakeholders and the global community in the realm of sustainable agriculture.

Background information

The LL implements around twenty sustainable agriculture projects, leading to significant improvements in soil health and biodiversity. These projects employ practices such as crop rotation, cover cropping, and the establishment of pollinator habitats, enhancing soil fertility and promoting diverse ecosystems. Additionally, integrating renewable energy solutions – such as solar panels and biogas systems - into farming practices helps reduce carbon footprints and ensures energy self-sufficiency.

The initiative has developed a series of educational modules and workshops that focus on sustainable farming techniques and agroecological principles, designed to educate both current farmers and the next generation of agricultural professionals. It has further potential to develop new products and services related, for example, to farm data management practices and sustainable food products.

Funding structure

Financial resources include funding from various existing RDI projects, including government research grants and European Union funding programs. It is further supported by private sector partnerships and contributions from the government.

Activities

Sustainable agricultural practices and agroecology, providing solutions that enhance local food systems, improve soil health, and increase biodiversity, directly addressing environmental, economic, and social issues within the local community. These activities tackle immediate local challenges and contribute to broader efforts to enhance sustainability and resilience in agriculture.

Methods, stakeholder engagements and tools

The LL actively contributes to the development of cutting-edge technologies and methods to drive the agroecology transition. By leveraging interdisciplinary research and integrating the latest advancements in science and technology, LL fosters the creation of innovative solutions that are essential for transforming agricultural practices. These innovations include precision agriculture technologies, that optimize resource use, sustainable soil management techniques which, enhance biodiversity and soil health, and advanced data analytics tools that improve decision-making processes in agroecological practices.

The LL addresses the broader local food system by actively engaging with various stakeholders involved in the food supply chain, from farm to table. The initiative focuses on sustainable practices that benefit primary production, and influence downstream activities such as processing, distribution, and consumption. By integrating the LL into the broader concept of SeAMK Food Labs, SeAMK ensures that its sustainable practices and innovations resonate throughout the local food system.

The LL utilizes co-creation as a key tool. This involves the collaborative development of new value—such as concepts, methods and tools, solutions, products, and services—together with experts and stakeholders. In this process, user input plays a central role, ensuring that the outcomes are relevant, practical, and impactful.

Achievements

The initiative is expected to lead to significant improvements in soil health, increased biodiversity, and the development of sustainable agricultural practices that are economically viable and environmentally friendly. It will also support the integration of renewable energy solutions into farming practices.

Further information

The SEAMK research team on Future-proof agricultural and energy solutions studies sustainability and responsibility, especially from the perspective of agricultural production. We also study the role of peatlands in the food chain and develop sustainable forms of land use. Our research group offers companies a

reliable partner to develop smart and cost-effective food chain operating models. In our operations, we seek solutions from circular economy business models, for example [Future proof agricultural and energy solutions](#) | [SEAMK.fi](#)

Contact



Website: [SEAMK Food Labs](#) | [SEAMK Food Labs -sivusto](#).

Social media: @seamk



agroecology.ps@ilvo.vlaanderen.be

Useful links

[Disclaimer and Privacy Policy](#)

[Credits](#)

[Contact](#)

[Subscribe to our newsletter](#)

Follow us



[Manage cookies](#)

Coordinator: Projektträger Jülich (Germany) | Co-coordinator: Agence nationale de la recherche, ANR (France)
