

How to engage the farming community and society : the use of Living labs?

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## • Living labs at ILVO

- Enoll : Principles and building blocks
- Experiences from the LL at ILVO
- Main messages



# LIVING LABS



Agrifood Technology





AGRO ECOLOGY & ORGANIC AGRICULTURE



"The Food Pilot helps companies, labs and governments with challenges in agri-food, such as improving food products or production processes.

Through co-creation, solutions are realized through pilot tests in the pilot plant, analyses and advice."











AGRO ECOLOGY & ORGANIC AGRICULTURE

**CONNECT all actors** 

**RESEARCH in real life context** 

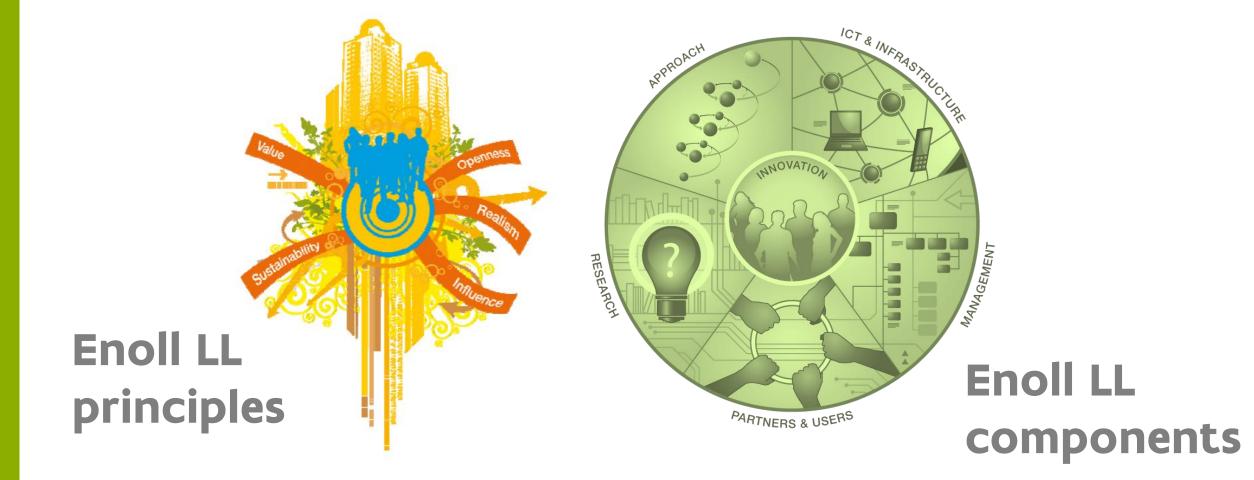
**EXCHANGE KNOWLEDGE in all directions** 

INNOVATE through co-creation

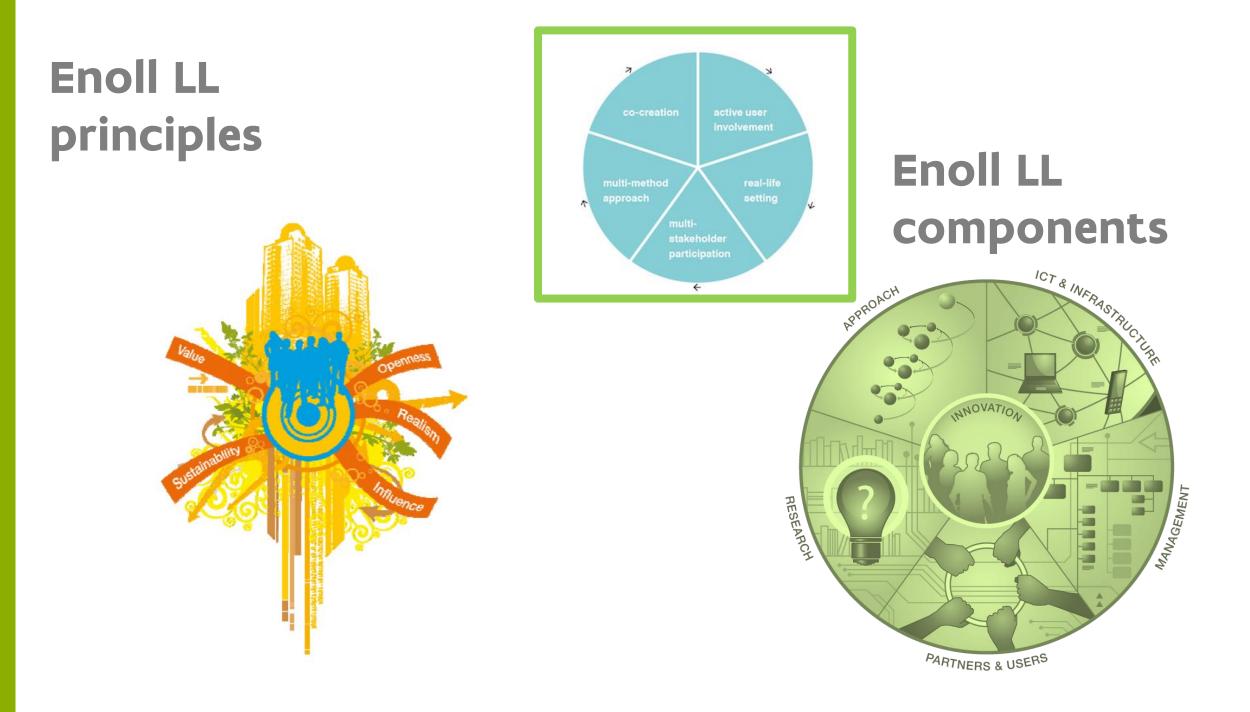




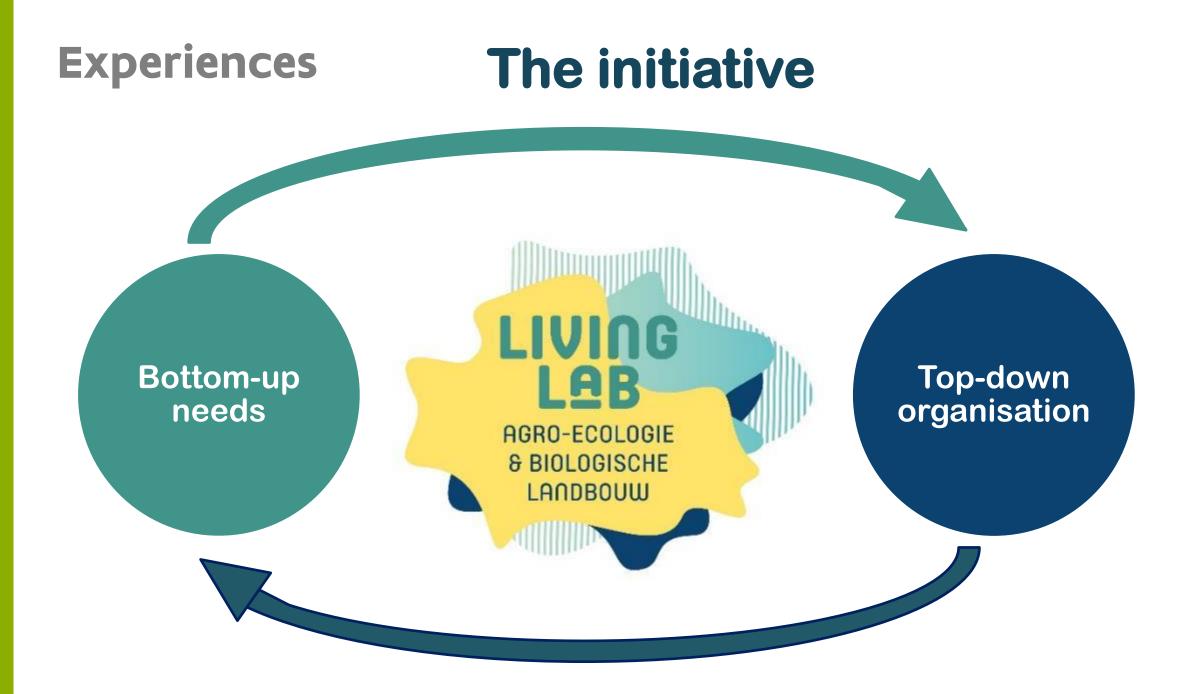


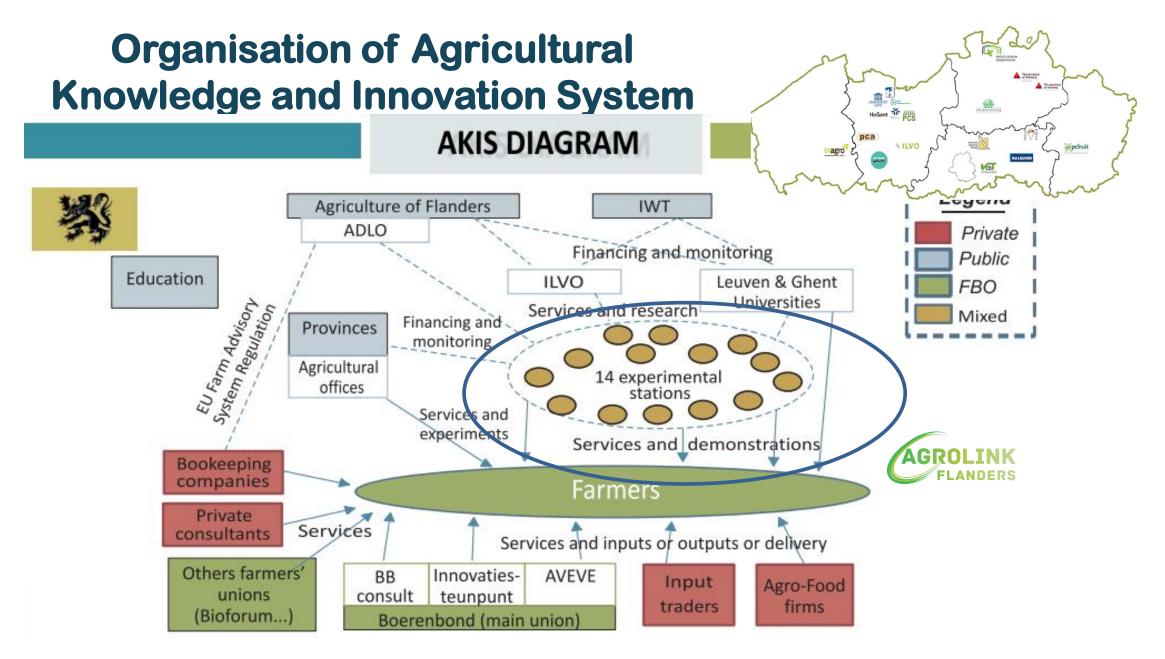


A Living Lab is a user-centric innovation milieu built on every-day practice and research, with an approach that facilitates user influence in open and distributed innovation processes engaging all relevant partners in real-life contexts, aiming to create sustainable values.



ILVO





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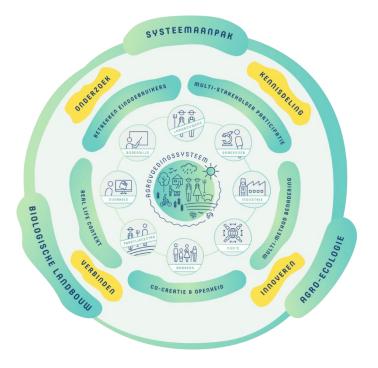


WHY? We support agro-ecological innovation as a lever in the **transition from organic and conventional agriculture** to sustainable food and agricultural ecosystems. To this end, we connect people, organisations, science and practice.

**WHAT?** The living lab brings together partners from the agrifood system and facilitates **innovative research and knowledge sharing** on agroecology and organic agriculture.

**HOW?** We work via a systems approach and apply the 5 ENoLL principles: multi-method approach, multi-stakeholder participation, real life context, active involvement of end users, co-creation and openness.







## MANAGEMENT

#### AGRO-ECOLOGIE & BIOLOGISCHE LANDBOUW

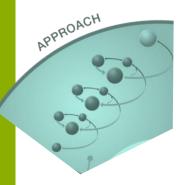
#### facilitation of the living lab by ILVO

- management: 0,5 FTE from the Social Sciences unit
- core team with researchers from all units

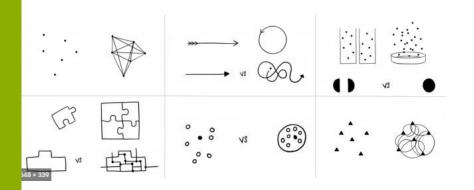
#### coordination through participation:

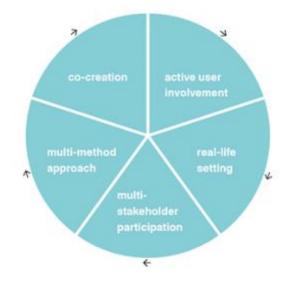
- active stakeholder participation in design and operation of the LL
- working groups: variable membership, linked to specific goal, temporary funding : chicken or the egg

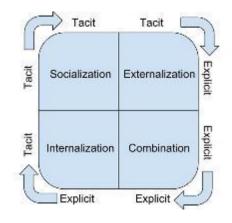


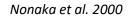


## APPROACH









system thinking tools

Enoll approach

tacit knowledge

# Farm 'De groentelaar'

farm visit: farmer tells his story, his objectives, his challenges

introduction to systems thinking for all participants

system approach with stakeholders to adress farmers' needs:

- put farmers' challenges (fair price for his products) within a system context
- explore problem definition
- identify strategies











#### farmland for future projects

#### both on research sites as on real farms





## Research



Facilitating and supporting systemic research and innovation on agro- ecological practices in food through innovation & stakeholder engagement systems

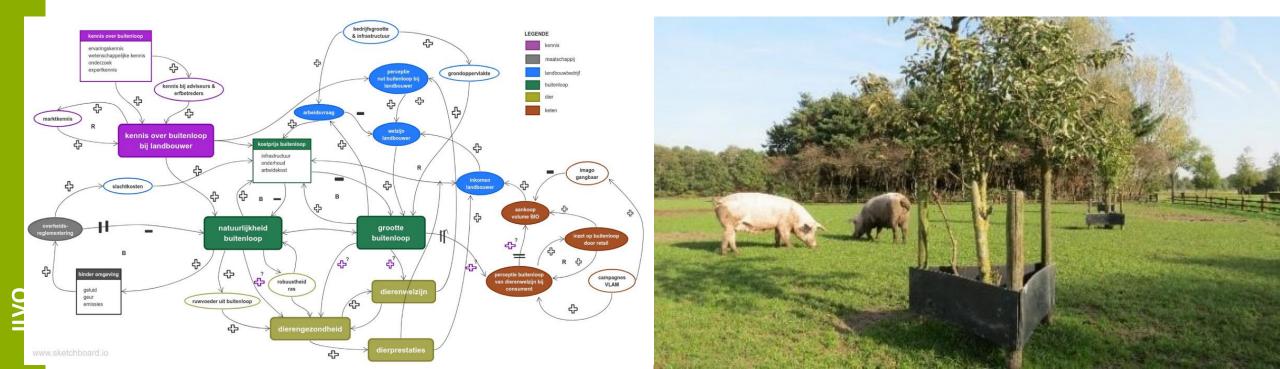
- making existing expertise visible
- interactive knowledge sharing activities
- helpdesk: refer questions to partners, identifying knowledge gaps, education, initiating research with partners
- facilitating project proposals
- facilitating real life research on farms
- building up knowledge on systemic research  $\bullet$

# **Examples of activities**

Facilitating and writing of a project proposal on outdoor pig farming

- little experience in Flanders (operational group P'orchard)
- include systemic approach in proposal





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LIVING LAB AGRO-ECOLOGIE & BIOLOGISCHE LANDBOUW

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Scientific grounding of the concept agroecology



# Living Lab Agrifood Technology

- BIOBot = Robot for mechanical weed control
- To reduce amount of manual labor needed in small-scale organic farming
- Multifunctional, affordable robotic platform capable
- width of the beds, the height of the crop, uneven terrain and other technical requirements (weight > soil compaction and allow transport by trailer)



### Levels

Level	Definition	Research paradigm
Macro	Living lab constellation consisting of organised stakeholders (PPP- partnership)	Open innovation: knowledge transfers between organisations
Meso	Living lab innovation project with living lab methodology	Open & user innovation: real-life experimentation, active user involvement, multi-method and multi- stakeholder
Micro	Individual research steps and activities, linked to the stakeholders assets and capabilities	User innovation: user involvement and contribution for innovation
A living lab focusses on a well-structured organisation on the macro level, with living lab projects in the meso level, consisting of co-created activities in the micro level.		

The three-layered approach to a living lab – Presentation by EnoLL (7 May 2020)

## Main messages



Open your doors & create trust



Participatory paradox



Tools & Facilitation



Resistance



Added value



Funding vs activities



Long process



Network & gatekeepers



Continuity

# Thank you

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