

# PAVING THE WAY TOWARDS DIGITALISATION ENABELING AGROECOLOGY



## PATH2DEA Coordination and Support Action

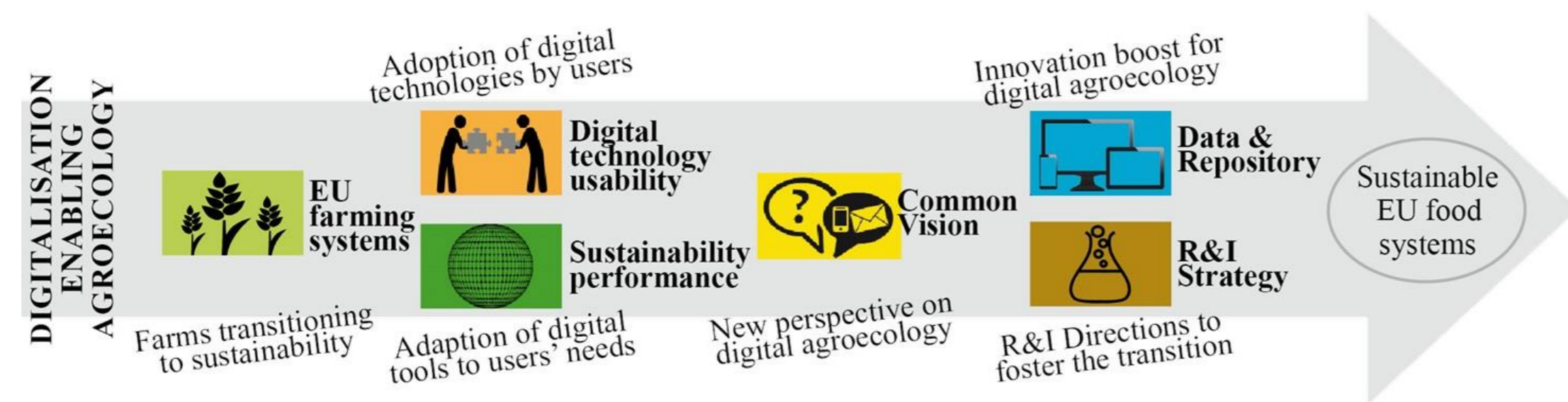
PATH2DEA unlocks the catalysing power of digitalisation and fosters the transition of the European agricultural system towards enhanced sustainability and resilience. The project builds on farmers' competences and experience and matches them with the rich repertoire of digital solutions already available in agriculture. It aims at tailoring digital technologies to users' needs and fostering wide-range adoption of digital agroecological farming in the EU and associated countries. The project prioritizes the strategic engagement of multiple actors. Early adopters of digital agroecological farming are represented by six Showcase farms in different pedo-climatic regions, which provide hands-on experience and allow solid consensus validation of the project's conclusions. PATH2DEA will deliver a robust knowledge base in the frame of an Open Source Repository of digital tools and technologies in agroecology with decision support functionalities and a well-aligned R&I Roadmap for guiding digital agroecology transition.



**Digital Agroecology Cluster**  
 PATH2DEA complements the thematic landscape with a Digital Agroecology Cluster. It seeks synergies between HE funded projects and provides for future sustainability of project results. The cluster gives particular attention to projects dealing with new and less well studied aspects of digital agroecology needing support and coordination.



**Compliance with Agroecology**  
 PATH2DEA relates to the 10 Elements of Agroecology and the 13 Principles of Agroecology for creating a set of indicators allowing to scale and measure the performance of digital tools and technologies used in agroecological practice.

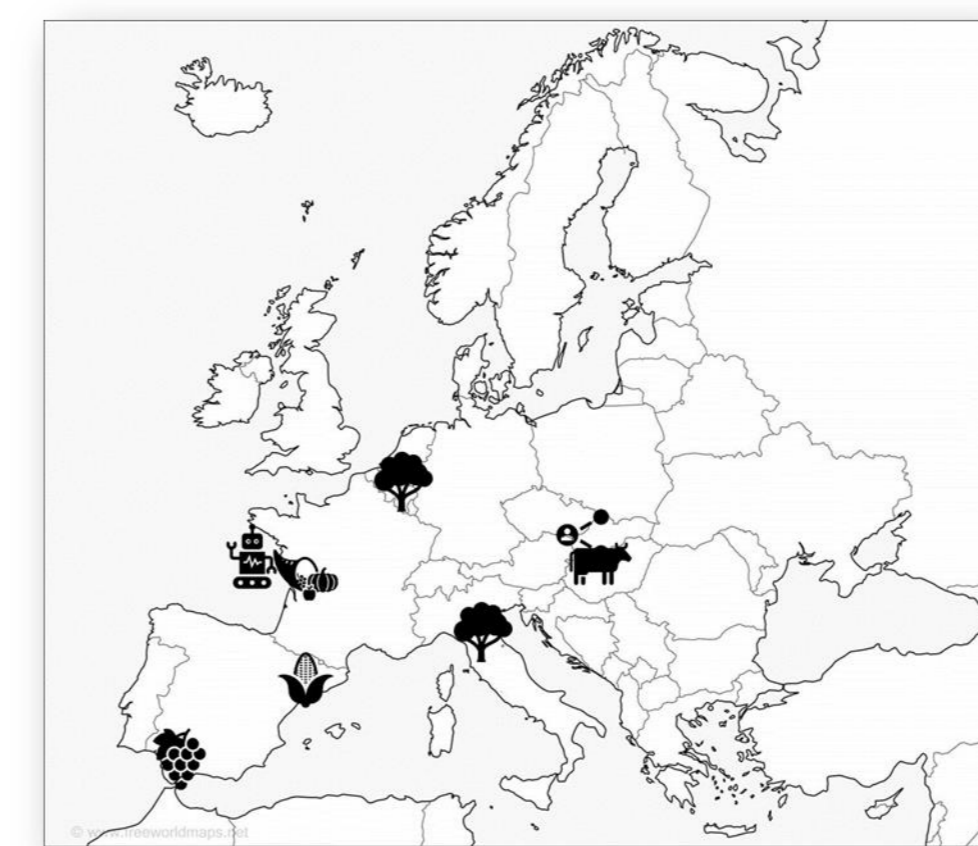


## Towards an Agroecology Partnership

In view of the upcoming European partnership on agroecology living labs and research infrastructures, PATH2DEA connects across EU initiatives and platforms in both agroecology and digital technology (such as AEEU or EDIHs).

## PATH2DEA Consortium

Universities, RTOs, Farmers Associations, SMEs, networks, and umbrella organisations



## PATH2DEA's Showcase Farms

Showcase Ambassadors act as facilitators of project communication and dissemination and organize local workshops.

## PATH2DEA Showcase Farm Characteristics – 3 Examples

### Group of smallholder farmers, Tuscany, Italy Olive farms of the IPMworks networks

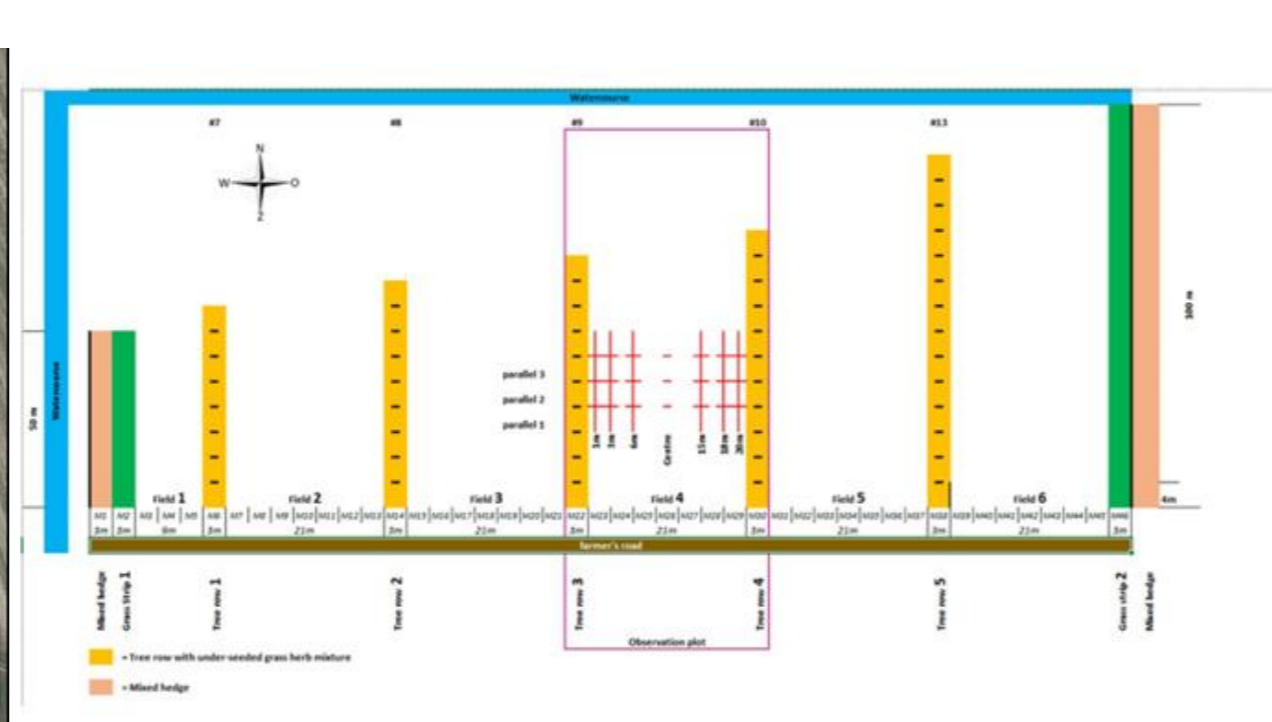
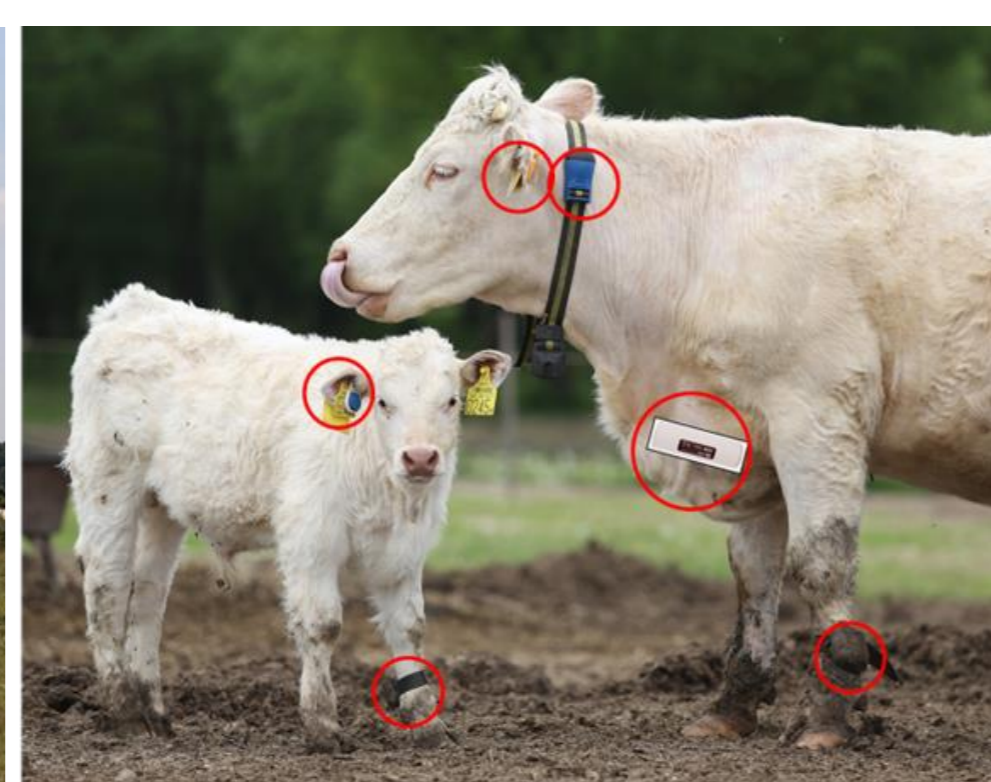
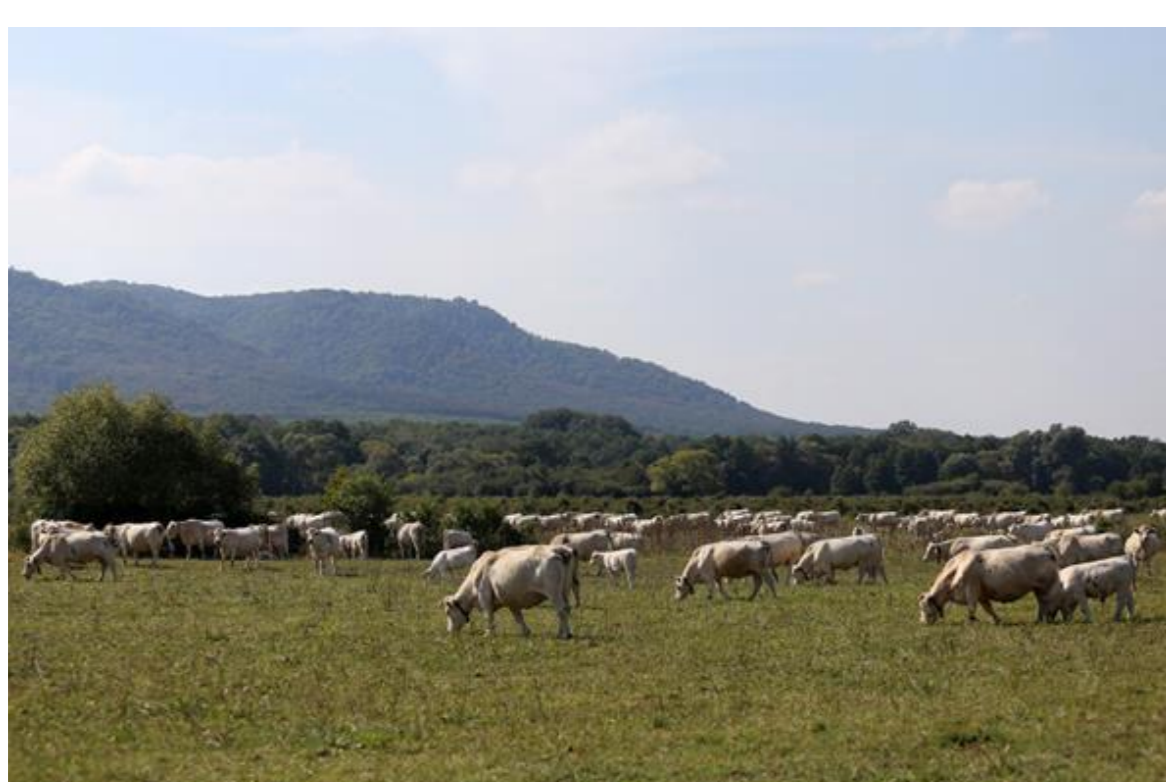
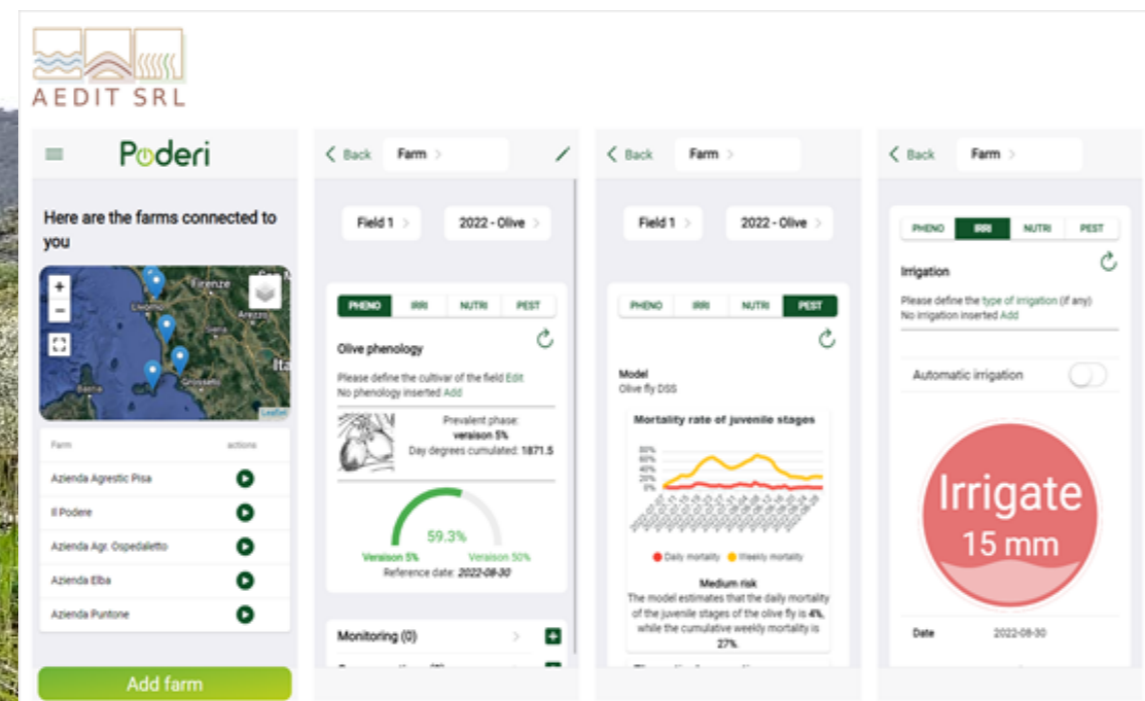
Farms: 13, average Farm size: 1 - 16 ha, direct sales  
 Period of activity: 4 -30 years  
 Olive tree, several varieties in each olive grove (i.g. moraiolo, leccino, indigenous varieties)  
 Poderi: DSS for irrigation, nutrition, pest monitoring; register operations, chat and data sharing - farmers and advisors

### Precision livestock management at Gazdatrend Ltd, Zala country, Hungary

IoF in the grazed beef cattle sector since 2019 making the invisible visible in pasture-based beef cattle farming  
 non-invasive sensors on animals and long-range transceivers in the pasture  
 120 cows and their calves, a whole market operation in research  
 living-lab, on farm solutions working closely with farmers, developing daily practical advice for farming  
 measurement - data analysis - advice - implementation - verification, back-testing

### Showcase Agroforestry in Beitem, West-Flanders, Belgium

A research field where: the interaction of trees (Juglans regia 'Broadview') is being monitored on the growth of vegetable, potato, cereals, field beans (Vicia Faba) and soil dynamics.  
 Farming system : Agroforestry (Juglans regia 'Broadview') & vegetables, potato, cereals, field beans (Vicia faba)  
 Digital technologies applied: in-field sensors, precision farming  
 Parameters monitored:  
 Available light, precipitation, windspeeds, air temperature, soil temperature, soil moisture, yield, crop health, soil carbon, biodiversity, tree growth



Funded by the European Union



Schweizerische Eidgenossenschaft  
 Confédération suisse  
 Confederazione Svizzera  
 Confederaziun svizra

Swiss Confederation

PATH2DEA is co-funded by the European Union (Grant no. 101060789) and the Swiss State Secretariat for Education, Research and Innovation (SERI) (Grant no. 22.00535). Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union, European Research Executive Agency (REA) or Swiss State Secretariat for Education, Research and Innovation (SERI). Neither the European Union nor any other granting authority can be held responsible for them.