



EXPLOITABLE RESULTS

- Validated and operationalised framework adapted from the concept of socio-ecological systems (SES) theory to analyse the drivers and barriers towards agroecological farming systems
- Development of a typology of AEFS in the EU handling different agroecological intensification paths
- Story maps of the SES of the Case studies
- Contribution to the process of addressing sustainability related issues in the UNISECO case studies
- Database of Decision Support Tools data
- Current and future development of the Decision Support Tools
- Co-constructed transition strategies to overcome barriers of implementation of agro-ecological practices in EU farming systems
- Trade-offs and Synergies deriving from the implementation of agro-ecological practices
- Trade-offs and synergies between agricultural production and environmental impacts resulting from large-scale diffusion of agro-ecological farming practices in the EU in 2030 and 2050
- Scenarios for agro-ecological developments in the EU until 2050
- The use of Social Network Analysis method for the analysis of the governance structures supporting agro-ecological farming systems
- The use of the multi-criteria analysis to understand and assess (ex-ante) Market and Policy Instruments to support agroecological transition strategies
- SESSIT: Socio-ecological system interaction tool
- Methodological handbook for transdisciplinary sustainability assessment
- Multi-actor engagement in a transdisciplinary framework

POLICY BRIEFS

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PUBLICATIONS

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SOCIO-ECOLOGICAL SYSTEM TOOL

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CASE STUDIES



- **Austria:** Mitigation of climate change by humus formation in arable farming (Ökoregion Kaindorf)
- **Czech Republic:** Improvement of the soil properties on the arable land by crops rotation change and other soil protection measures carried out under conversion to organic dairy farms
- **Finland:** Reducing environmental impact of milk Making Finnish dairy production more sustainable in Nivala
- **France:** Cooperation between farmers to foster agroecological practices in viticulture
- **Germany:** Improving biodiversity and water quality without generating significant negative impacts on the economic viability of farms - The Nienburg County in Lower Saxony
- **Greece:** The transition of peach growers to sustainability - Producing and distributing high quality fruit products in a very competitive global market
- **Hungary:** Sustainable natural resource management to increase economic viability in mid-sized arable grain-protein-oil cropping farms
- **Italy:** Diversifying specialised winegrowing areas - Improving the sustainability of land use for transitioning towards agroecology
- **Latvia:** Improving the sustainability of grassland-based organic dairy farming in Latvia - Increasing the production and consumption of organic dairy products
- **Lithuania:** Keeping it small and extensive: the way to a sustainable future in Lithuanian dairy sector - Finding a way how to sustain small dairy farms, while producing quality products and public goods for the society
- **Romania:** Small-scale farming in Transylvania - Preserving the high farmland biodiversity while improving economic viability
- **Spain:** Agro-ecological farming systems in northern Spain - Empowering small-sized, local and organic farmers
- **Sweden:** More food from ruminant farms - Diversifying Swedish milk and meat farms by incorporating more crops for direct human consumption
- **Switzerland:** Strategies for reducing stocking densities - In the context of structural path dependencies, important economic pressure, and highly sensitive ecosystems in the Lucerne Central Lakes Region
- **United Kingdom:** Delivering Public Goods Transitions to Agro-Ecological Farming Systems in North-East Scotland

IMPACTS

- improved methodological capacity to assess the sustainability of agro-ecological approaches
- enhanced integrated capacity and knowledge sharing to develop viable long-term strategies for sustainable European farming systems
- co-constructed novel and effective market mechanisms and policy instruments for delivering public goods through economically viable agro-ecological farming systems
- improved knowledge base of agro-ecological farming in the EU for use by policy-makers at EU, national and regional levels, advisors, farmers, value chain actors and consumers
- contribution to the implementation of the EU Green Deal, Farm to Fork Strategy, post-covid informed reform process of the CAP after 2020 regarding environmental policies and policy efforts to support rural job creation

ABOUT UNISECO

UNISECO is a European research project aiming to develop innovative approaches to enhance the understanding of socio-economic and policy drivers and barriers for further development and implementation of agro-ecological practices in EU farming systems.

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<https://cordis.europa.eu/project/id/773901>

<https://zenodo.org/communities/uniseco-h2020/>

UNISECO in the EIP-Agri projects database:

<https://ec.europa.eu/eip/agriculture/en/find-connect/projects/understanding-and-improving-sustainability-agro>

VISIT THE UNISECO AGRO-ECOLOGICAL KNOWLEDGE HUB: <https://uniseco-project.eu>



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