

Consortium

Coordinator:



It is a spin-off of the Università Cattolica del Sacro Cuore born in 2008 with the mission to increase the value of research by transferring the technological innovation to practical agriculture at national and international level.
www.horta-srl.com

Partner:



It is the largest Italian academic Institution, counting 5 campuses, 12 faculties and more than 40 thousand students. Faculty of Agriculture, food and environmental sciences has its campus in Piacenza and was established in the academic year 1952-53.
www.unicatt.it



It is a public University specialized in applied sciences which aims to pave innovative pathways in education and research, responding to the modernization and innovation of society itself.
www.santannapisa.it



It is the Emilia-Romagna Joint Stock Consortium that was born from the merger of ASTER and ERVET, with the purpose of fostering the region's sustainable growth by developing innovation and knowledge, attractiveness and internationalisation of the region system.
www.art-er.it



It is one of the leading plant breeding company (mainly bread and durum wheat, barley, oat, pea, sunflower, alfalfa, chickpea and faba bean) in Italy and in other European countries.
www.agroservicespa.it



It is a new company of the Tecniche Nuove Group, which includes some of the leading technical headlines in the specialized publishing market, and it works in the agrofood sector under the Edagricole brand.
www.edagricole.it

www.agrestic.eu

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The LIFE AGRESTIC project has received funding from the European Union LIFE Program

LIFE AGRESTIC

Reduction of
Agricultural
Greenhouse gases
Emissions
Through Innovative
Cropping systems

The **LIFE AGRESTIC** project is part of the Priority Area **Climate Change Mitigation - LIFE Climate Action 2014-2020**.

It promotes the adoption of **innovative and efficient cropping systems**, with a high potential for climate change mitigation. It contributes to the dissemination of **innovative visions and tools** for a more efficient and climate-friendly agriculture.

The main activities



Design of efficient cropping systems (ECS) from the point of view of the management of carbon, nitrogen and greenhouse gas emissions, based on the introduction of legumes and catch crops in a four-year rotation cycle.



Test of innovative cropping systems (ECS) in 3 demonstration sites, representative of different climatic and agricultural areas (Tuscany, Emilia - Romagna and Puglia), and comparison with traditional rotations (CCS).



Recovery, characterization and multiplication of local and rare varieties / lines of legumes and catch crop in order to identify the most promising ones in terms of agronomic and environmental performance.



Integration of new functionalities on greenhouse gas emissions in DSS (Decision Support Systems) for the specific crops taken into account and development of a new DSS for catch crops.



Development, testing and implementation of an innovative DSS for the efficient management of crop systems as a whole (multi-year rotations), completed with a model for estimating greenhouse gas emissions.



Design, development and testing of a prototype for the detection in real time of greenhouse gas emissions from soil.



Valorisation of climatic and environmental performances achieved thanks to the development of a product label, which certifies the adoption of ECS systems, and the creation of schemes for the payment of Ecosystem Services, to be introduced in new support policies.



Analysis of different scenarios for mitigation of greenhouse gas emissions and socio-economic effects. Evaluation of the project's replicability in other European countries.



Involvement in the co-development of the project activities of key players in the value chains of the crops introduced in the ECS.