

Meet the consortium

9 PARTNERS

5 Universities
2 Research Centers
2 SMEs

6 COUNTRIES

Spain, France,
Greece, Morocco,
Cyprus and Egypt

Living Labs

Ostara brings innovation into practice through four demonstration sites in arid and semi-arid Mediterranean agroecosystems. These real-world environments enable the co-creation, implementation, and monitoring of agroecological practices supported by low-cost soil monitoring kits, harmonized indicators, and Trustworthy AI tools.

SPAIN Spanish State Research Agency (AEI)



GREECE General Secretariat for Research and Innovation (GSRI)



CYPRUS
Research and Innovation
Foundation (RIF)

MOROCCO
Ministry of Higher Education, Scientific
Research and Innovation (MESRSI)



FRANCE
French National Research Agency (ANR)



EGYPT



Accelerating the transition
toward sustainable,
climate-resilient
Mediterranean agriculture
through innovative
agroecological practices
co-created, validated,
and scaled together with
farmers and stakeholders.

Ostara

Operationalizing Agroecology for Resilient
Mediterranean Agriculture

Ostara

University of Salamanca, BISITE Research Group
Edificio Multiusos I+D+i: Calle Espejo s/n, 37007,
Salamanca, Spain

ostara-admin@usal.es
ostara-med.eu



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ostara-med.eu
ostara-admin@usal.es

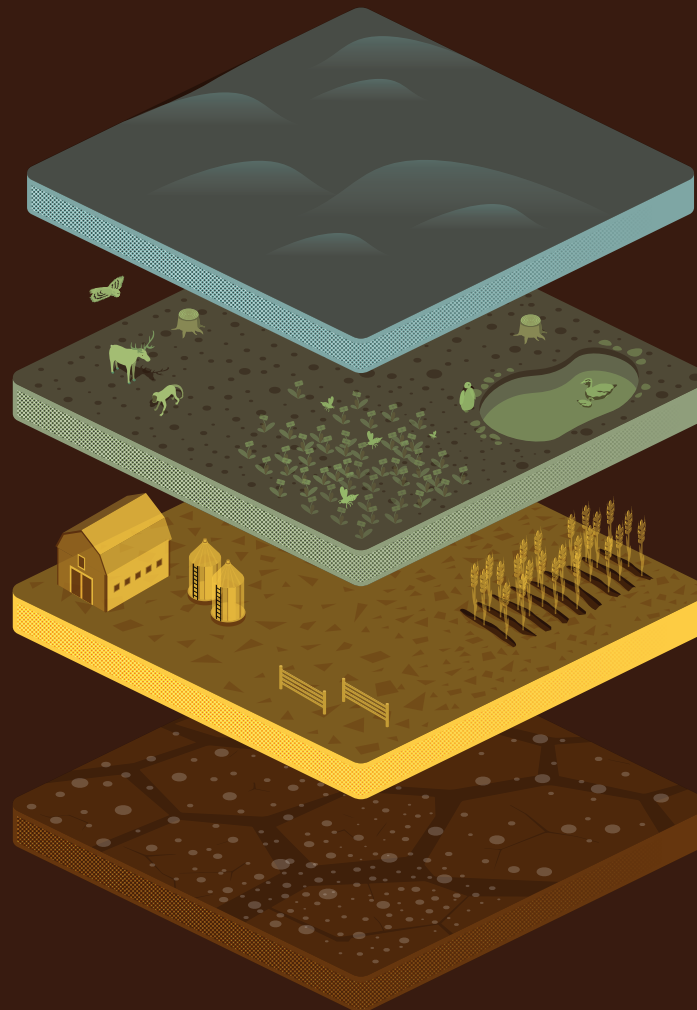
About OSTARA

Ostara envisions a Mediterranean region where agroecological practices are effectively operationalized at farm level, supported by harmonized soil indicators, digital tools and participatory innovation. The project promotes sustainable soil management, climate resilience and long-term agricultural viability across diverse Mediterranean agroecosystems.

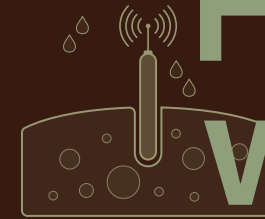
The challenge

Healthy soils are the foundation of food security, climate resilience, biodiversity, and thriving rural communities across the Mediterranean.

However, Mediterranean agricultural landscapes are increasingly threatened by:



How it works



Monitor

Low-cost Edge-IoT devices and biosensors collect real-time physical, chemical, and biological soil data directly in the field.

Harmonize

A common agroecology ontology integrates heterogeneous soil data from sensors and existing repositories across Mediterranean regions.

Predict

Trustworthy, explainable, and federated AI models analyze distributed data to predict soil health, crop yields, and carbon sequestration.

Transform

Integrated monitoring and AI-driven insights support informed farm-level decisions for sustainable soil management and climate resilience.

Innovation beyond the State of the Art

Digital Twins

Federated Learning for Farming Systems

Trustworthy AI

Green Distributed Ledger Technologies

Explainable AI

Internet of Things and Edge Computing

Soil Prediction