CropRotaM

Agroecology, upscaled across the Mediterranean.

Living soils. Resilient farms. Shared knowledge.



11	Partners	6	Countries	5	Living Labs	36	Months

Co-Creating Sustainable Agriculture: Upscaling Crop Rotation and Biodiversity at the Farm Level through Living Labs and Digital Technologies

THE CHALLENGE

Degraded soils. Less water. Biodiversity under pressure.

Monocropping and agrochemical overuse erode soils and organic matter. High input costs and low margins squeeze smallholders, threatening long-term food security.

250 million+ people face a projected risk of water poverty within two decades.



OUR APPROACH

Co-create. Test. Replicate.

Farmers, scientists, advisors and SMEs co-create site-specific Agroecological Innovation Packages. Multi-season trials compare them with conventional practices, tracking carbon, biodiversity and profitability.

DIVERSIFY
Cereal–legume–oilseed rotations, intercropping & conservation tillage

REBUILD SOILS
Compost, biochar & microbial inoculants

CONNECT
Soil sensors, variable-rate fertilization & an open knowledge portal

Five objectives. One transition.

01 — Co-design
Climate-resilient cropping systems, co-created with farmers in five Living Labs.

02 — Share data
An open, FAIR portal: collect once, curate once and share evidence widely.

03 — Restore soils
Validate rotations, compost, biochar and microbial inoculants to cut chemical use.

04 — Prove the gains
Measure carbon, biodiversity and profitability against conventional baselines.

05 — Enable uptake
Turn evidence into policy, new value chains and viable smallholder business models.

7 work packages connect Living Labs, fieldwork, data, carbon accounting and policy.

Five Living Labs. Real farms. Shared evidence.

3 BIOGEOGRAPHIC REGIONS · CO-DESIGNED AND TESTED UNDER REAL FARM CONDITIONS

ITALY
Basilicata
Cereal–legume–oilseed rotations

TÜRKIYE
Aegean
Wheat & barley with quinoa & camelina

SPAIN
Murcia
Citrus, covers & deficit irrigation

GERMANY
Baden-Württemberg
Cover crops & smart nitrogen

TUNISIA
Douz oasis
Date palms & salt-tolerant strips

Eleven partners. Six countries. One shared ambition.

AR&TeCS · Universität Hohenheim · Università degli Studi della Basilicata · CEBAS-CSIC · Technical University of Crete · CREA · Agreenment · e.ratio soluzioni software · ReFarm

PROJECT NEWS · First consortium meeting: Ankara, 22–23 July 2026 · Hosted by AR&TeCS;

FUNDING & ACKNOWLEDGEMENT

Part of the PRIMA Programme, supported by the European Union.

Co-funded by the European Union

PRIMA IN THE MEDITERRANEAN AREA

croprotam.eu

Coordinator: AR&TeCS; · Dr. T. Ya ar Katırcıo lu
+90 312 484 55 15 · ar-tecs.com

This project is part of the PRIMA Programme supported by the European Union. Grant agreement No 20260212.

This project is part of the PRIMA Programme supported by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the PRIMA Foundation. Neither the European Union nor the granting authority can be held responsible for them.