

Arbo-Innova - ToC

Current Issues Driving This Approach

Environmental and Agricultural Challenges

The Mediterranean landscape has been transformed by the rise of intensive farming systems, leading to soil degradation, biodiversity loss, and unsustainable resource use.

Lack of Research & Data

Insufficient demonstration sites and limited agronomic and economic data on how regenerative methods impact soil health, crop production, nutrient density, and farm profitability in Mediterranean tree crops.

Limited Knowledge & Experience in the Industry

Farmers, agronomists and industry players lack the knowledge and experience to implement regenerative agriculture on intensive tree systems at scale.

Key Audience

Farm operators, farm managers, farmers and agricultural funds struggling with the ecological damages and seeking for farm resilience.

Food supply chains seeking production that is resilient to climatic extremes and compliant with EU environmental regulations.

Tree crop industry and political parties interested in climate & economic resilience, water efficiency and soil health.

Entry Points to Reach Our Key Audience

Research performed on commercial farms demonstrating scalability and relevance to the industry

Scientific vigour provided by 3 PT universities, generating science-based data

High internal expertise and collaboration across a wide network of local and international partners.

Open source knowledge through publications, open days, workshops, etc

Steps to Drive Change (Practical Interventions)

Implement on-farm trials to test and refine regenerative methodologies for almonds and olives.

Develop scientifically backed regenerative methodologies that can be scaled across Mediterranean tree crops.

Publish scientific papers and reports, providing measurable evidence of impact.

Scale implementation through the dissemination of results with relevant industry players

Measurable Outcomes

Scientific reports and peer-reviewed papers quantifying improvements in soil health, plant resilience, crop quality, biodiversity, and nutrient density.

Communication and dissemination efforts across Portugal and Spain, ensuring widespread industry awareness and adoption of regenerative practices

Reduced chemical pollution and food contamination, optimising agricultural inputs while improving food quality.

Improved environmental outcomes in soil health, biodiversity and crop quality in intensive tree systems

Wider Benefits and Impact (Social, Political, Environmental)

Mediterranean-wide scalability, potentially influencing soil regeneration at scale in key almond- and olive-producing regions.

Social benefits, including investment in rural areas, and **economic resilience** for farmers.

Healthier food systems with **reduced chemical contamination**, potential improved **nutrient density** and **food security** brought by more resilient agricultural systems.

Political impact, as these industries hold significant economic and policy influence in **Portugal and Spain**.

Long Term Goals

Develop scientifically proven and innovative agronomic solutions

Empower farmers and accelerate the industry's transition

Scale regenerative agriculture across the Mediterranean region