AI4OptiAgri - AI and Data Science Solutions for Optimising Precision Agriculture

SISCOG - Sist. Cognitivos, SA and Inst. Nac. de Investigação Agrária e Veterinária, IP

Lisboa, Oeiras e Dois Portos (Torres Vedras), distrito de Lisboa; Alcobaça, distrito de Leiria; Elvas, distrito de Portalegre

Priority

The AI4OptiAgri project is a collaborative initiative by a consortium (SISCOG and INIAV) to optimise agricultural production sustainably and promote the efficient and balanced use of resources, delivering clear benefits for both agriculture and the environment.

The project addresses 7 key areas: phenology, crop coefficients, water stress intensity, nutritional status, disease detection, phenotyping platform, and yield estimation. These will be tested and validated across 4 agricultural sectors – vineyards, olive, fruit, and almond plantations – to develop and assess the prototype.

It aims to combine 4 innovative technologies – remote sensing with multiple types of sensors, data fusion, AI, and Data Science – to create sophisticated and powerful models. These models will extract valuable knowledge from complex and rich data to support decision-making in agriculture production.

Total investment

2.299.942,08 €

European Union financial support

1.130.146,71 €

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Cofinanced by the European Union