**SUDOE Priority Axis:** Environment and resource efficiency.

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# Transnational cooperation for the design of more sustainable agricultural production strategies in the SUDOE territory

Photo by Markus Winkler on Unsplash
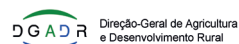
Environment and resource efficiency

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# Identification of sustainable agricultural practices

# Working method in the project

# Objectives of the project

# Final product

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## Identification of sustainable agricultural practices

The purpose of the AgroGreen-SUDOE project is to develop proposals for the management of cultivation systems, with regional and actor sensitivity, that lead to a minimum environmental impact of agricultural activity in the SUDOE territory, made up of Spain, Portugal and the south of France.

Within the framework of the project, management practices with less environmental impact, based on fertilization and irrigation, will be agreed upon and co-designed with the end users. This activity will complement those focused on the synthesis of existing information, the generation of new data in real conditions and the estimation of agri-environmental impacts through modelling tools.

AgroGreen-SUDOE has the vocation of incorporating the vision and sensitivities of the main actors involved in the processes of agricultural production and the development of public policies in the agricultural and environmental fields. For this, the AgroGreen-SUDOE Multi-Actor Platform is created, one of the project's axes.

## Working method in the project

The project is structured in six Task Groups, each of which is coordinated by one of the six beneficiary partners of AgroGreen-SUDOE. These task groups seek, from the diagnosis of the starting situation, in terms of crop management practices in the SUDOE territory, the quantification of environmental impacts in real conditions, with the direct participation of the end users (farmers) and the estimation of impacts in Spanish, French and Portuguese river basins through the use of modelling tools previously adapted to the realities of each place. Finally, as the main product and with all the information and knowledge generated, a web tool will be developed, allowing interested actors to evaluate the environmental impact of agricultural practices on water and atmosphere.

## Objectives of the project

- To involve end users (farmers, water management agencies, consumers and agri-environmental policy makers) in the joint design of sustainable management options for agricultural systems to reduce water and atmospheric pollution.
- To evaluate the environmental sustainability of co-designed resource management practices regarding water and air quality within the river-sea continuum. Environmental sustainability will implicitly include socioeconomic sustainability through the co-design of management scenarios with direct participation of end users.
- To develop and implement a virtual and dynamic tool to share the knowledge generated and support the decision-making processes related to the management of resources and the landscape within the natural protected areas in SUDOE territory.

## Final product

The final product of the project will be a visualization tool of the agri-environmental impacts associated with the production of crops in the SUDOE territory through different crop management practices, with a special focus on fertilization and irrigation. This tool, particularly relevant in a context marked by the implementation of the European Green Agreement and the "From Farm to Fork" initiative, will be the result of the conjunction of scientific rigor (data, modeling tools and the capitalization of experience and previous results of verified research groups), transnational cooperation and the co-creation process within the AgroGreen-SUDOE multi-actor Platform, all in order to face a common problem and provide sensitive solutions to each region. The results and products of AgroGreen-SUDOE will be especially relevant within the framework of the new Common Agricultural Policy, with a special focus on the environmental sustainability of agricultural systems, and will contribute to equip the agricultural sector with the tools to achieve this end.