STAGES

1st Stage
DOCUMENTARY

In-depth literature review of the topics to be developed in the innovative project.

2nd Stage
EXPERIMENTAL

1. Development and implementation of a digital platform for efficient water management and the assessment and improvement of biodiversity.

2. To implement a pilot experience located in Lora del Río, Seville.

3. Assessment of the impact of environmental improvements (water and biodiversity) introduced on organic farms and industries on the competitiveness of the final product.

3rd Stage
FINAL REPORT

Final report with the results of the innovative project.

4th Stage
DISSEMINATION

Launch of a dissemination and communication plan to publicise the progress and results of the innovative project.

PARTNERS:

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More information

Europa invierte en las zonas rurales

TIC4BIO

Digital platform for implementing environmental improvements (water use and biodiversity enhancement) in green bussines

FUNDING:

UNIÓN EUROPEA
Fondo Europeo Agrícola de Desarrollo Rural

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Europa
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TIC4BIO

The main objective of this project is to increase the competitiveness of the organic agri-food sector in Andalusia using information and communication technologies (ICTs), which optimise work, support decision making regarding the efficient water use in farms and in industries and improve biodiversity on farms given its utmost environmental relevance, in full accordance with the objectives of the European Green Pact.

PRESENTATION

The European Commission has recognised that organic production is a necessary tool for tackling climate change and has also recognised that it is the sustainable agriculture of the future. By 2030, more than 25% of the useful agricultural area in the EU should be under organic production.

On the other hand, the most demanding consumers are increasingly interested in respect for the environment and the preservation of natural resources. It is well known that nowadays, the loss of biodiversity is one of the most important environmental problems worldwide, and in climates such as the Mediterranean, water scarcity is becoming an increasingly worrying issue.

Organic production establishes in its own standard, as principles, the respect of natural systems and cycles and the maintenance and improvement of the state of soil, water and air, the health of plants and animals, and the balance between them, the responsible use of resources such as water and not only the conservation of biodiversity, but also the contribution to a high degree of biodiversity.

Leading by example, this innovative project will increase the competitiveness of organic companies (farms and agri-food industries) thanks to the creation of an ICT tool that will facilitate decision-making both for efficient use of irrigation water and water used in agro-industry,
and to calculate the degree of biodiversity on the farm and be able to improve it, responding to the environmental concerns and conservation of natural resources of the most demanding market.

The tool will be developed, implemented and tested in the pilot experience, before being opened for use by interested companies. To ensure optimal management of water resources and biodiversity, it will be used information captured by local and remote sensors, transmitted, and processed through ICTs.

The expected result of the project is the development of a versatile and intuitive IT tool to support the ecological operator in the management of water resources (irrigation and/or agro-industry), as well as in the improvement of the biodiversity of the farm.

The digital platform will be a valuable tool for green businesses to increase their competitiveness.