



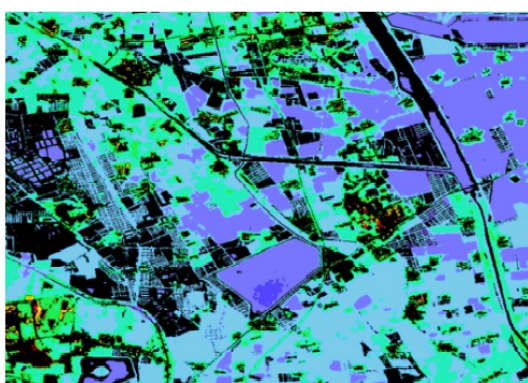
smart AKIS
Smart Farming Thematic Network



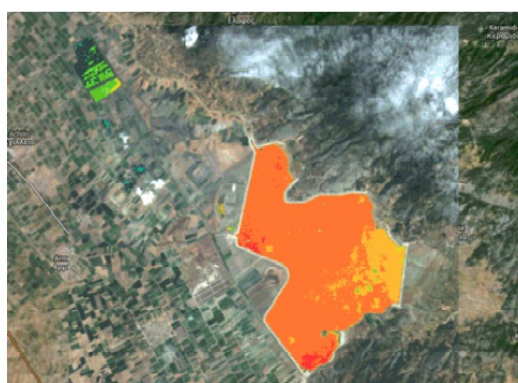
THIS PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT N. 696294

EOFARM

EOFARM



AGRICULTURE



WATER

Title	EOFARM
Title (native language)	
Category	<ul style="list-style-type: none"> • Recording or mapping technology • Controlled traffic technology • Farm Management Information System
Short summary for practitioners (Practice abstract) in English)	EOFARM project cover the topic of Precision Farming (PF), one of the main applications of Earth Observation in the agriculture industry; it makes use of satellite images to help farmers in monitoring and managing crops from planting to harvesting.
Short summary for practitioners	
Website	http://www.eofarm.com/index.html#
Audiovisual material	
Links to other websites	
Additional comments	
Keywords	Fertilisation and nutrients management Soil management / functionality Water management
Additional keywords	
Geographical location (NUTS)	EU
Other geographical location	
Cropping systems	Arable crops Tree crops Open field vegetables Vineyards
Field operations	Sowing Transplanting Fertilization Pesticide application Weed control Crop protection Irrigation Harvesting Crop and soil scouting
SFT users	Farmer
Education level of users	Secondary education Apprenticeship or technical school education University education
Farm size (ha)	0-2 2-10 10-50

Project info

Project name	EO-FARM: EARTH OBSERVATION FARMING
Project coordinator	IPTSAT SRL (IT)
Project partners	
Project period	2014 - 2015
Project status	finished
Objective of the project (native language)	EOFARM main objective is to launch in the market an innovative PF service which targets small farms (average size between 5-30ha), addressing a clear user need, and to enter in the emerging market of commercial applications of Earth Observation downstream services in agriculture, estimated to be worth approximately 43 million in 2015.
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Effects of this SFT

Productivity (crop yield per ha)	Large increase
Quality of product	Some increase
Revenue profit farm income	Large increase
Soil biodiversity	No effect
Biodiversity (other than soil)	No effect
Input costs	Some decrease
Variable costs	Some decrease
Post-harvest crop wastage	Some decrease
Energy use	Some decrease
CH4 (methane) emission	Some decrease
CO2 (carbon dioxide) emission	Some decrease
N2O (nitrous oxide) emission	No effect
NH3 (ammonia) emission	No effect
NO3 (nitrate) leaching	No effect
Fertilizer use	Large decrease
Pesticide use	Large decrease
Irrigation water use	Large decrease
Labor time	Some decrease
Stress or fatigue for farmer	Some decrease
Amount of heavy physical labour	Some decrease
Number and/or severity of personal injury accidents	No effect
Number and/or severity of accidents resulting in spills property damage incorrect application of fertiliser/pesticides etc.	No effect
Pesticide residue on product	Some decrease
Weed pressure	Some decrease
Pest pressure (insects etc.)	Some decrease
Disease pressure (bacterial fungal viral etc.)	Some decrease

Information related to how easy it is to start using the SFT

This SFT replaces a tool or technology that is currently used. The SFT is better than the current tool	agree
The SFT can be used without making major changes to the existing system	agree
The SFT does not require significant learning before the farmer can use it	disagree
The SFT can be used in other useful ways than intended by the inventor	agree
The SFT has effects that can be directly observed by the farmer	disagree
Using the SFT requires a large time investment by farmer	disagree
The SFT produces information that can be interpreted directly	no opinion

[View this technology on the Smart-AKIS platform](#)

SMART AKIS PARTNERS:



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