



smart AKIS
Smart Farming Thematic Network



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AND INNOVATION PROGRAMME UNDER GRANT
AGREEMENT N. 696294

CoolFarm



Title	CoolFarm
Title (native language)	
Category	<ul style="list-style-type: none"> • Recording or mapping technology • Reacting or variable rate technology • Farm Management Information System • Robot or smart machine
Short summary for practitioners (Practice abstract) in English)	CoolFarm is a disruptive solution based on Artificial Intelligence (AI) and Machine Learning, connected to the cloud and with an intuitive interface, adaptable to web, mobile and tablet supports, supported on an unique concept of controlling, in a precise way, the environmental variables that contribute to plants growth, which allows them to develop in the most healthy, efficient and effective way.
Short summary for practitioners	
Website	
Audiovisual material	
Links to other websites	
Additional comments	
Keywords	Plant production and horticulture Fertilisation and nutrients management Soil management / functionality Water management Biodiversity and nature management
Additional keywords	
Geographical location (NUTS)	EU
Other geographical location	
Cropping systems	
Field operations	Transplanting Fertilization Irrigation Harvesting
SFT users	Farmer
Education level of users	All
Farm size (ha)	0-2 2-10 10-50 50-100

Project info

Project name	CoolFarm: CoolFarm – The intelligent and flexible system that provides to plants what they need, when they need it!
Project coordinator	COOLFARMSA (PT)
Project partners	
Project period	2016 - 2016
Project status	ongoing
Objective of the project (native language)	CoolFarm brings disruptive technology that helps on the control and optimization of crop production in greenhouses or warehouses. Coolfarm provides to the plants what they need, when they need it! The objective of this project was to demonstrate the breakthrough system - SaaS based B2B Greenhouse Artificial Intelligence Control System, a high-tech product to solve real world problems in agriculture. This resulted in a go-to-market strategy with a well-validated product worldwide.
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Effects of this SFT

Productivity (crop yield per ha)	Large increase
Quality of product	No effect
Revenue profit farm income	Some increase
Soil biodiversity	No effect
Biodiversity (other than soil)	Some increase
Input costs	Some decrease
Variable costs	Some decrease
Post-harvest crop wastage	No effect
Energy use	Some decrease
CH4 (methane) emission	No effect
CO2 (carbon dioxide) emission	Some decrease
N2O (nitrous oxide) emission	No effect
NH3 (ammonia) emission	No effect
NO3 (nitrate) leaching	No effect
Fertilizer use	Some decrease
Pesticide use	Some decrease
Irrigation water use	Some decrease
Labor time	Some decrease
Stress or fatigue for farmer	Some decrease
Amount of heavy physical labour	No effect
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	No effect
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	no opinion
The SFT can be used in other useful ways than intended by the inventor	no opinion
The SFT has effects that can be directly observed by the farmer	no opinion
Using the SFT requires a large time investment by farmer	disagree
The SFT produces information that can be interpreted directly	agree

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

SMART AKIS PARTNERS:

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