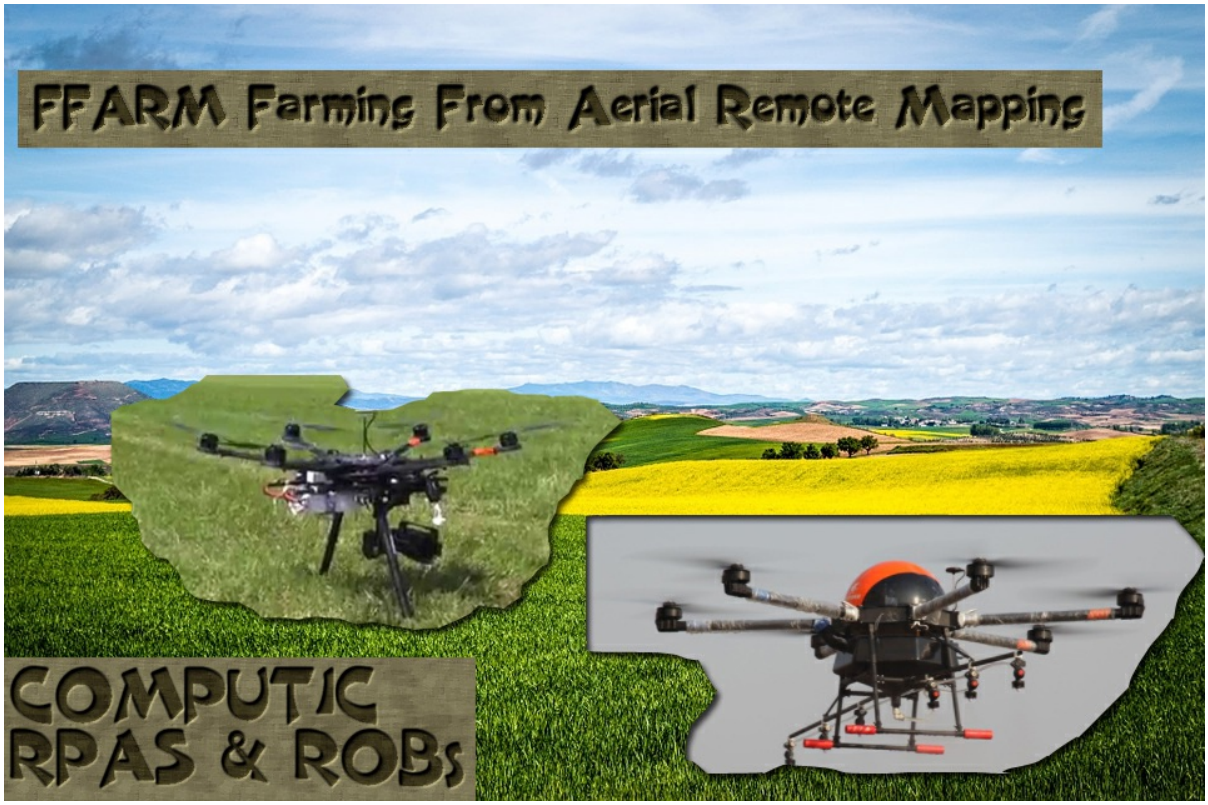
THIS PROJECT HAS RECEIVED FUNDING FROM THE **EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME** UNDER GRANT AGREEMENT N. 696294

FFARM Farming From Aerial Remote Mapping



Title	FFARM Farming From Aerial Remote Mapping
Title (native language)	
Category	• Recording or mapping technology • Reacting or variable rate technology • Controlled traffic technology • Farm Management Information System • Robot or smart machine
Short summary for practitioners (Practice abstract) in English)	Drones are a part of new precision agriculture revolution. Many farming tasks could be worked by Drones by precision navigate in work mission plan and perform actions at set locations, for example, gathering crop data, spraying a pesticide, planting Monitor via last technologies on image processing and multispectral sensors. FFARM is an autonomous aerial system based on Open Source platform. Several image processing methods and mission plan produce information that is translated into navigation decisions and actions for drone. The potential of SAFFARM is a modular Aerial platform with several skills on Precision Agriculture as Aerial Monitoring and Sprayer Drone. RTK Positioning and image processing are the main features of this powerful farming tool. Fly and capture images using FFARM drone. Designed for use on the farm, by anyone. Pre-plan missions for offline flight Easily repeat flights for regular crop monitoring Capture imagery with sensors from RGB Camera, Thermal and Multispectral NDVI Sensor. Detect Crop Variability Quick and easily Maps using NDVI and other plant health algorithms, so you can: Save time with more efficient crop scouting Monitor impact of treatments and test over time Develop variable rate prescriptions Failures Irrigation System Detection Smart Aerial Sprayer
Short summary for	

practitioners	
Website	www.computic.es
Audiovisual material	
Links to other websites	
Additional comments	
Keywords	Agricultural production systems | Farming equipment and machinery | Fertilisation and nutrients management | Water management
Additional keywords	Drones for Precision Agriculture
Geographical location (NUTS)	ES, EU
Other geographical location	
Cropping systems	Tree crops | Open field vegetables | Vineyards
Field operations	Fertilization | Pesticide application | Weed control | Crop protection | Irrigation
SFT users	Farmer
Education level of users	All | Apprenticeship or technical school education
Farm size (ha)	0-2 | 2-10 | 10-50 | 50-100 | 100-200 | 200-500 | >500

Company info

Company name	Computic Rpas & Robs
Address	, ,
Website	www.computic.es
Patent status	no patent

Effects of this SFT

Productivity (crop yield per ha)	No effect
Quality of product	No effect
Revenue profit farm income	No effect
Soil biodiversity	No effect
Biodiversity (other than soil)	No effect
Input costs	No effect
Variable costs	Some decrease
Post-harvest crop wastage	No effect
Energy use	No effect
CH4 (methane) emission	No effect
CO2 (carbon dioxide) emission	No effect
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	No effect
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	No effect
Weed pressure	No effect
Pest pressure (insects etc.)	No effect
Disease pressure (bacterial fungal viral etc.)	No effect

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	no opinion
The SFT can be used without making major changes to the existing system	no opinion

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	no opinion
The SFT produces information that can be interpreted directly	no opinion

View this technology on the Smart-AKIS platform.

This factsheet was generated on 2018-Apr-03 11:57:20.