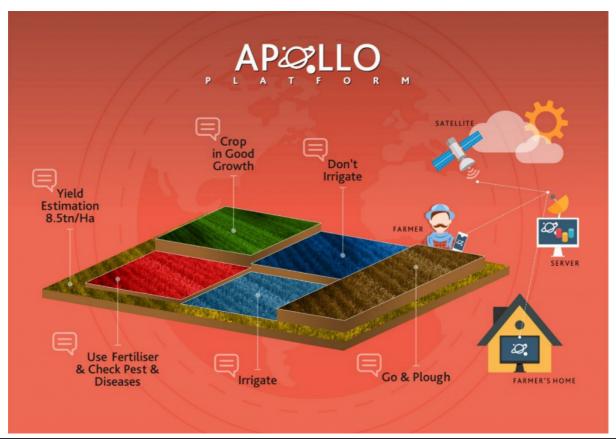




THIS PROJECT HAS RECEIVED FUNDING FROM THE **EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME** UNDER GRANT AGREEMENT N. 696294

#### Advisory platform for small farms based on earth observation



Title	Advisory platform for small farms based on earth observation	
Title (native language)		
Category	Recording or mapping technology     Farm Management Information System	
Short summary for practitioners (Practice abstract) in English)	Earth Observation (EO) refers the collection of information about our planet, using remote sensing technologies such as sensors mounted on satellites or drones. The European Union's Copernicus programme provides EO data freely and openly for use by policy-makers, citizens and businesses alike. APOLLO makes full use of this invaluable resource, as well as drawing on other sources of globally available data. Remote sensing data from sensors on Earth Observation satellites have demonstrated their potential to measure soil moisture quantitatively on bare surfaces and those covered by short vegetation. Thanks to their ability to operate in all weather conditions and to wide coverage, data from Synthetic Aperture Radar (SAR) offer the opportunity to monitor large areas with a high spatial resolution. The use of SAR images, such as those captured by the Copernicus programme's Sentinel-1, can provide a precise estimation of the surface soil moisture.	
Short summary for practitioners		
Website	http://apollo-h2020.eu/	
Audiovisual material		
Links to other websites		
Additional comments		

Keywords	Farming practice   Farming equipment and machinery   Soil management / functionality   Water management
Additional keywords	affordable information, Earth Observation System, Monitoring
Geographical location (NUTS)	ES, GR, RS
Other geographical location	
Cropping systems	Arable crops   Tree crops   Open field vegetables   Vineyards   Grassland
Field operations	Tillage   Weed control   Crop protection   Irrigation   Harvesting
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	APOLLO: Advisory platform for small farms based on earth observation
Project coordinator	DRAXIS ENMRONMENTAL S.A (EL)
Project partners	TECHNISCHE UNIVERSITAET WIEN   EVENFLOW SPRL   AGROTIKOS SYNETAIRISMOS PELLAS   FACULTY OF CIVIL ENGINEERING   UDRUZENJE POLJOPRIVREDNIKA OPSTINE RUMA   AGRICULTURAL UNIVERSITY OF ATHENS   STARLAB BARCELONA SL   AGRISAT IBERIA SL
Project period	2016 - 2019
Project status	ongoing
Objective of the project (native language)	
Objective of the project (in English)	

#### **Effects of this SFT**

Productivity (crop yield per ha)	Some increase
Quality of product	Some increase
Revenue profit farm income	Some increase
Soil biodiversity	Some increase
Biodiversity (other than soil)	No effect
Input costs	Some decrease
Variable costs	Some decrease
Post-harvest crop wastage	Large decrease
Energyuse	Some decrease
CH4 (methane) emission	Some decrease
CO2 (carbon dioxide) emission	Some decrease
N2O (nitrous oxide) emission	Some decrease
NH3 (ammonia) emission	Some decrease
NO3 (nitrate) leaching	Some decrease
Fertilizer use	Some decrease
Pesticide use	Some decrease
Irrigation water use	Some decrease
Labor time	Large 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	No effect
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	strongly 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	no opinion
The SFT has effects that can be directly observed by the farmer	stronglyagree
Using the SFT requires a large time investment by farmer	no opinion
The SFT produces information that can be interpreted directly	stronglyagree

## View this technology on the Smart-AKIS platform.



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