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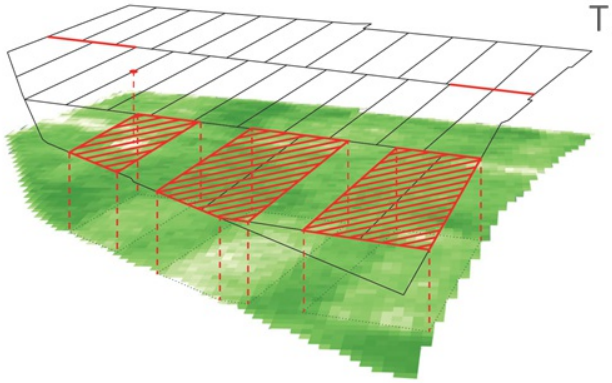
Agrodetec



TELEDETECCIÓN PARA LA MONITORIZACIÓN DE LOS CULTIVOS

Title	Agrodetec
Title (native language)	
Category	• Recording or mapping technology • Farm Management Information System
Short summary for practitioners (Practice abstract) in English)	AGRODETEC is a line of services based on remote sensing designed to improve the management of crop farms in both rainfed and irrigated areas, by monitoring them over the cycle or campaign length. The AGRODETEC services are based on periodic multispectral images that come from both satellites and UAVs. These images are corrected radiometrically and atmospherically, eliminating clouds, mists and shadows, and delivered to the user accompanied by a personalized report. Farmers, agricultural advisors or agricultural entities, which can be incorporated into the services of their own geo-referenced data, receive objective and real-time information that also allows them to be geolocated in the field with the mobile phone, facilitating fieldwork and making decisions. The different services that make up AGRODETEC son: Zoning of soil; Detection of conditions or failures in rainfed / irrigated areas; Harvest strategy; Studies of crops in previous campaigns; Weeds for large areas and herbicide efficiency; Weed mapping; Birth control. The delivery format and the distribution channel are adapted to each user according to their needs. Users also have their own space in the cloud to access all the information from the computer or from the mobile through an APP.
Short summary for practitioners	

Website	http://soneaingenieria.com/servicios/agricultura/agrodetec/
Audiovisual material	
Links to other websites	
Additional comments	
Keywords	Farming practice | Plant production and horticulture | Water management
Additional keywords	Multispectral images from both satellites and UAVs
Geographical location (NUTS)	ES, EU
Other geographical location	
Cropping systems	Arable crops | Tree crops | Open field vegetables | Vineyards
Field operations	Fertilization | Weed control | Irrigation
SFT users	Farmer | Buyer
Education level of users	All
Farm size (ha)	10-50 | 50-100 | 100-200 | 200-500 | >500

Company info

Company name	SONEA Ingeniería y Medio Ambiente S.L.
Address	Parque Técnologico WALQA, Huesca, Spain
Website	http://soneaingenieria.com/
Patent status	patent submitted

Effects of this SFT

Productivity (crop yield per ha)	Some increase
Quality of product	Some increase
Revenue profit farm income	No effect
Soil biodiversity	Some increase
Biodiversity (other than soil)	No effect
Input costs	Some increase
Variable costs	No effect
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	No effect
Irrigation water use	Some decrease
Labor time	No effect
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	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	agree

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	agree
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

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