



smart AKIS
Smart Farming Thematic Network



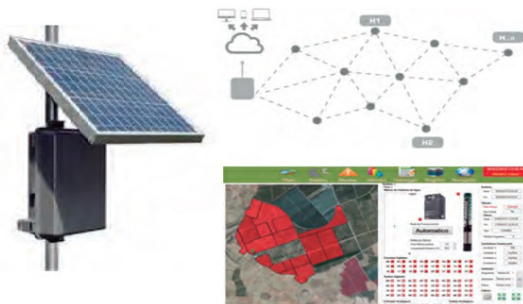
THIS PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT N. 696294

ART3 Agro



ART3 Agro

New irrigation programmer



Title	ART3 Agro
Title (native language)	
Category	<ul style="list-style-type: none"> • Farm Management Information System • Robot or smart machine
Short summary for practitioners (Practice abstract) in English)	<p>The new irrigation programmer for professionals ART3 Agro differs from all its competitors by its large color touch screen. In a world where more and more the trend is an interaction of an easy and intuitive way with electronic devices, ART3 Agro makes the difference. In addition to its large color touch screen, its use and intuitive programming makes it easy to assign outputs, create, modify programs and manage communications. ART3 Agro has irrigation programs, irrigation subprograms to manage up to 255 irrigation valves, breeding management in each irrigation subprogram, filter management, control of electricity generators, counters, pressure sensors, etc. Another advantage of the ART3 AGRO programmer is its ability to manage remote inputs and outputs via RF. You can configure one or several remote zones communicated via RF through the MESH network. The latter have 14 LATCH outputs, 4 counter inputs or digital inputs as well as analog pressure, humidity, etc. sensors. These remote inputs / outputs can be assigned to motors, irrigation valves, fertilizers, etc.</p>
Short summary for practitioners	
Website	http://www.arateck.com/servicios/agricultura.php
Audiovisual material	

Links to other websites	
Additional comments	
Keywords	Water management
Additional keywords	Smart Irrigation Controller
Geographical location (NUTS)	ES, EU
Other geographical location	
Cropping systems	Arable crops Tree crops Open field vegetables Vineyards Grassland
Field operations	Fertilization Irrigation
SFT users	Farmer
Education level of users	All
Farm size (ha)	0-2 2-10 10-50 50-100 100-200 200-500 >500

Company info

Company name	Arateck S.L
Address	Polígono Industrial PLAZA C/ Tarento, nave 20 , Zaragoza, Spain
Website	
Patent status	patent submitted

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	No effect
Post-harvest crop wastage	No effect
Energy use	Some decrease
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	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](#)

SMART AKIS PARTNERS:

 **ΠΕΔΕΚΟΝΙΟ ΕΚΠΑΙΔΕΥΤΙΚΟ ΑΡΧΙΤΕΚΤΟΝΙΚΟ**
AGRICULTURAL UNIVERSITY OF ATHENS

 **REPUBLIC OF SERBIA**
AUTONOMOUS PROVINCE OF VOJVODINA
PROVINCIAL SECRETARIAT FOR AGRICULTURAL,
WATER MANAGEMENT AND FORESTRY

 **WAGENINGEN**
UNIVERSITY & RESEARCH

in *iniciativas*
innovadoras

cuma 
Quest

Delphy

zalf

DLG


BioSense

 **INTIA**
Tecnologías e Infraestructuras Agrícolas

CEMA 
European
Agricultural
Machinery

AGTA
Les Instituts Techniques Agricoles

David Tinker &
Associates Ltd 

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