



Agronomical Decision Support Systems



Title	Agronomical Decision Support Systems
Title (native language)	Outils d'aide à la décision agronomique
Category	<ul style="list-style-type: none"> Farm Management Information System
Short summary for practitioners (Practice abstract) in English)	ITK developed two software services platforms for agricultural practices management (irrigation, fertilization and crop protection) : - cropwin for arable crops (corn, wheat, soybean) - vintel (grapes and fruit trees) These model-based services are available for farmers in SaaS mode (Software as a Service). iTK's distributors are major agribusiness companies such as Bayer CropScience and Winfield LLC), or service suppliers such as Verizon).
Short summary for practitioners	ITK a développé deux plate-formes de services agronomiques basés sur la modélisation des cultures, pour la gestion de l'irrigation, la fertilisation, et la protection phytosanitaire : - cropwin, pour les grandes cultures (maïs, blé, soja) - vintel (vigne et arboriculture fruitière) Ces services sont disponibles pour les agriculteurs en mode Saas (Software as a Service), et distribués par les grandes compagnies d'agrofourmiture (Bayer CropScience, Winfield LLC) ou de services pour les agriculteurs (Verizon aux USA)
Website	
Audiovisual material	
Links to other websites	
Additional comments	
Keywords	Agricultural production systems Farming practice Plant production and horticulture Fertilisation and nutrients management Water management Climate and climate change
Additional keywords	

Geographical location (NUTS)	FR
Other geographical location	North America
Cropping systems	Arable crops Tree crops Vineyards
Field operations	Sowing Fertilization Pesticide application Crop protection Irrigation Harvesting
SFT users	Farmer Contractor Supplier
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	iTK
Address	Cap Alpha, avenue de l'Europe, Clapiers, France
Website	www.itk.fr
Patent status	In-force patent

Effects of this SFT

Productivity (crop yield per ha)	Some increase
Quality of product	Large increase
Revenue profit farm income	Large increase
Soil biodiversity	No effect
Biodiversity (other than soil)	No effect
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	Some decrease
NH3 (ammonia) emission	Some decrease
NO3 (nitrate) leaching	Some decrease
Fertilizer use	Some decrease
Pesticide use	Some decrease
Irrigation water use	Large 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	disagree
The SFT can be used in other useful ways than intended by the inventor	disagree
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	strongly disagree

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