



RAMAS

REMOTE AGRICULTURAL MONITORING AND
ADVISORY SYSTEM

About Ag Futura Technologies

Founded in 2016. AGFT offers support to the agricultural sector with innovative solutions in digital and precision agriculture, marketing in agriculture and the food industry, and consulting services in the international development of agriculture and agribusiness.

AGFT combines modern agricultural science and practice to provide advisory services and equipment that ensure sustainable growth for farms and agribusiness operators.

A team of 22 employees and more than 40 external experts

Main Statistics



35

European and national projects



150+

European partners



20+

Commercial clients



15

Demo And Pilot Farms



3

Digital Platforms



1

Software application

The farmer and decision-making

Making decisions is essential to managing a farm. Even the choice to do nothing has consequences and is a decision.

Key aspects of decision-making

- Diagnosis
- Planning
- Implementing
- Monitoring & Evaluation

The role of agricultural advisors

Giving a recommendation or guidance in the decision-making process:

- Problem recognition at early stages
- Assistance in data analysis
- Solution alternatives for specific issue
- Educate the farmer for specific topics
- Train the farmer for successful observation

How?

- Directive Advice
- Prediction of consequence

REMOTE AGRICULTURAL MONITORING AND ADVISORY SYSTEM

RAMAS - Remote Agricultural Monitoring and Advisory System is a platform developed by AGFT to improve agricultural production.

The service integrates weather stations, soil sensors, pest traps, drones, and satellite data to provide comprehensive assessments of crop health and nutrition.



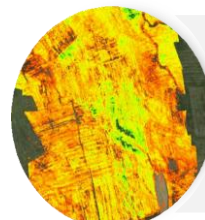
Programs within RAMAS

SOIL



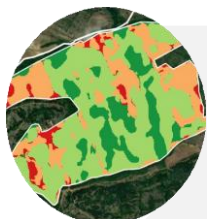
- Georeferenced extraction of soil samples
- Chemical and physical soil analysis
- Creation of georeferenced soil maps with management zones

FITO



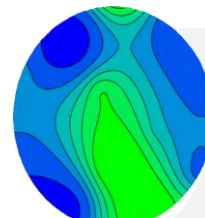
- Identification and mapping of diseases and pests
- Zone maps for implementing variable rate pesticide application

SOWING



- Seed rate recommendation by zone
- Zone Maps for Implementing Variable Rate Seeding Technology

IRI



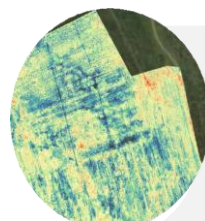
- Diagnostics of plant water status - evapotranspiration
- Irrigation maps: water needs & system efficiency

NUTRI



- Soil assessment & crop nutrient needs
- Fertilizer application zone maps

HARVEST



- Diagnostics: grain moisture & hectoliter weight
- Creation of georeferenced harvest maps

Main Benefits of RAMAS

RAMAS is designed to enhance the management of agricultural systems by improving efficiency, productivity, and sustainability of farming operations.

Benefits of implementing and using RAMAS include:

- **Cost Efficiency**
- **Decision Support**
- **Integrated Data Management**
- **Sustainability and Prevention**



Practical Example in Vineyard-7ha

Before RAMAS

Standard fertilization: 300 kg/ha
NPK

Pesticides: 8-9 treatments/year

Limited soil & weather data

After RAMAS implementation

Installed weather station

Pest & disease management
optimized using weather station
data

€1,500 saved on fertilization
(optimized type, timing, and
reduced quantity)

€1,500 saved on pest management
(by reducing 3 treatments using
weather and pest/disease models)

THANK YOU!



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