

SMART FARM SENSING



SMART RPW DETECTOR

Lower costs with increased reliability

Fully autonomous data acquisition drastically reduces the costs of RPW monitoring with increased reliability of data.

Improvement of yield and quality

Early detection enables early control measures, before RPW infestation affects date palm health, crop yield and date quality.

Statistical analysis and RPW forecasting

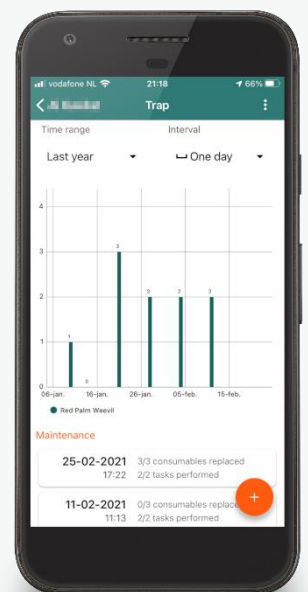
A continuously updated RPW data set of farm or region enables forecasting of RPW distribution.

Integrated Pest Monitoring

Enables the implementation of effective IPM to combat RPW at farm or regional level.

Fully wireless and remote

Pheromone traps equipped with our smart RPW detector can seamlessly integrate with AgrIoT <https://agriot.app/>, our geospatial agriculture data management platform, through wireless communication to AgrIoT wireless base station, allowing full field monitoring from iPhone, Android phone or desktop.

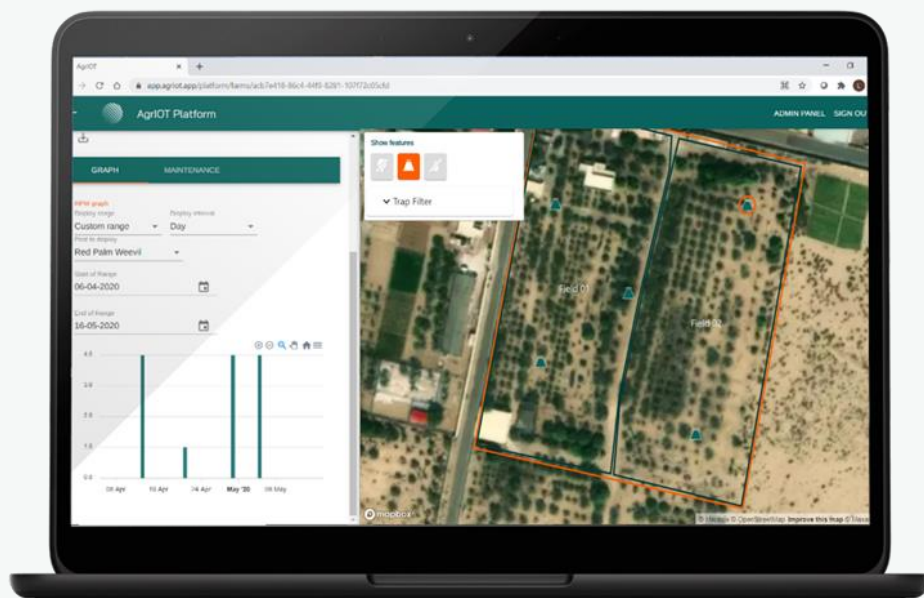


AUTOMATIC RPW DETECTION AND MONITORING

Smart Farm Sensing offers an easy and effective **smart RPW detector** as extension of traditional pheromone RPW traps. The patented smart RPW detector automatically detect a trapped RPW and transfer the detection to our cloud-based registration platform AgriIOT. The detection results are analyzed by machine learning algorithms using historic / regional detection data and auxiliary information (such as weather, environmental, climatic, etc.) to maximize the detection probability.

The smart RPW detector drastically reduces the operational cost of monitoring by automatically counting the captured RPWs in the pheromone RPW traps. No need for weekly visiting the trap locations (labor intensive) and visual trap inspection (error prone).

A continuously updated RPW data set of a farm or a region enables forecasting of RPW distribution and enables the implementation of effective IPM to combat RPW at farm and regional level.



Smart RPW detector specification

Suitable trap type	Pheromone traps with funnel extension
Power	Factory replaceable internal Lithium battery included
Operating voltage	3.0 V
Life expectancy	1 - 3 years
Operating environment	0 to +80 degrees Celsius, suitable for outdoor environments
Wireless protocol	LoRaWAN
Frequency	863-870 MHz (EU), 902-928 MHz (USA) or 920-925 MHz (AU)
Transmit power	14 dBm (EU) or 20 dBm (USA and AU)
Default transmission rate	Between 4 - 24 uploads per day

SMART FARM SENSING

Smart Farm Sensing provides products, services and solutions to the agriculture sector based on intelligent sensor data, remote sensing and geospatial information.

Our vision is to increase global agriculture productivity and sustain our future food chain with fully operational satellite, aerial and ground remote sensing data supply chains.

