



**trapview**

Monitor. Forecast. Decide better.

**ABIM 2018**

by **EFOS**

# Timing problem

..."a type of parasitic wasp, targets all larval stages of leaf miners, **specifically the second and third one.** Host feeding takes place when adult female wasp kills the larva inside the leaf mine",...

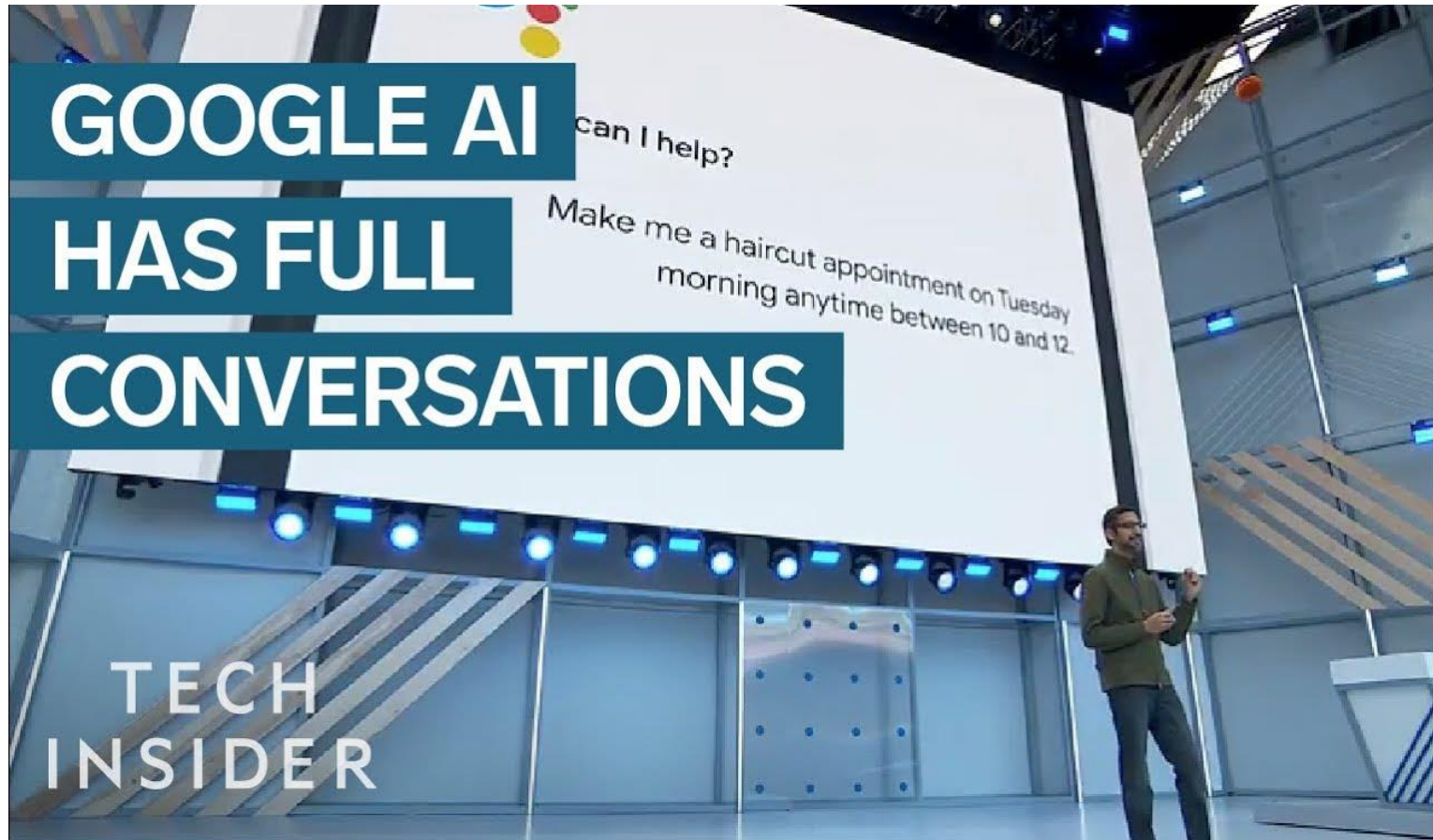
..."apply at **first egg hatch** based on pheromone trap catches and degree days after biofix dates. These pests must be controlled **before the larvae penetrate the fruit so early timing is critical**"....

# Reality check

**<30 readings throughout the season**

**Labor intensive**

# Popularity of AI



Not almighty...



**Data, Data, Data...**

**Quantity**

**Quality**

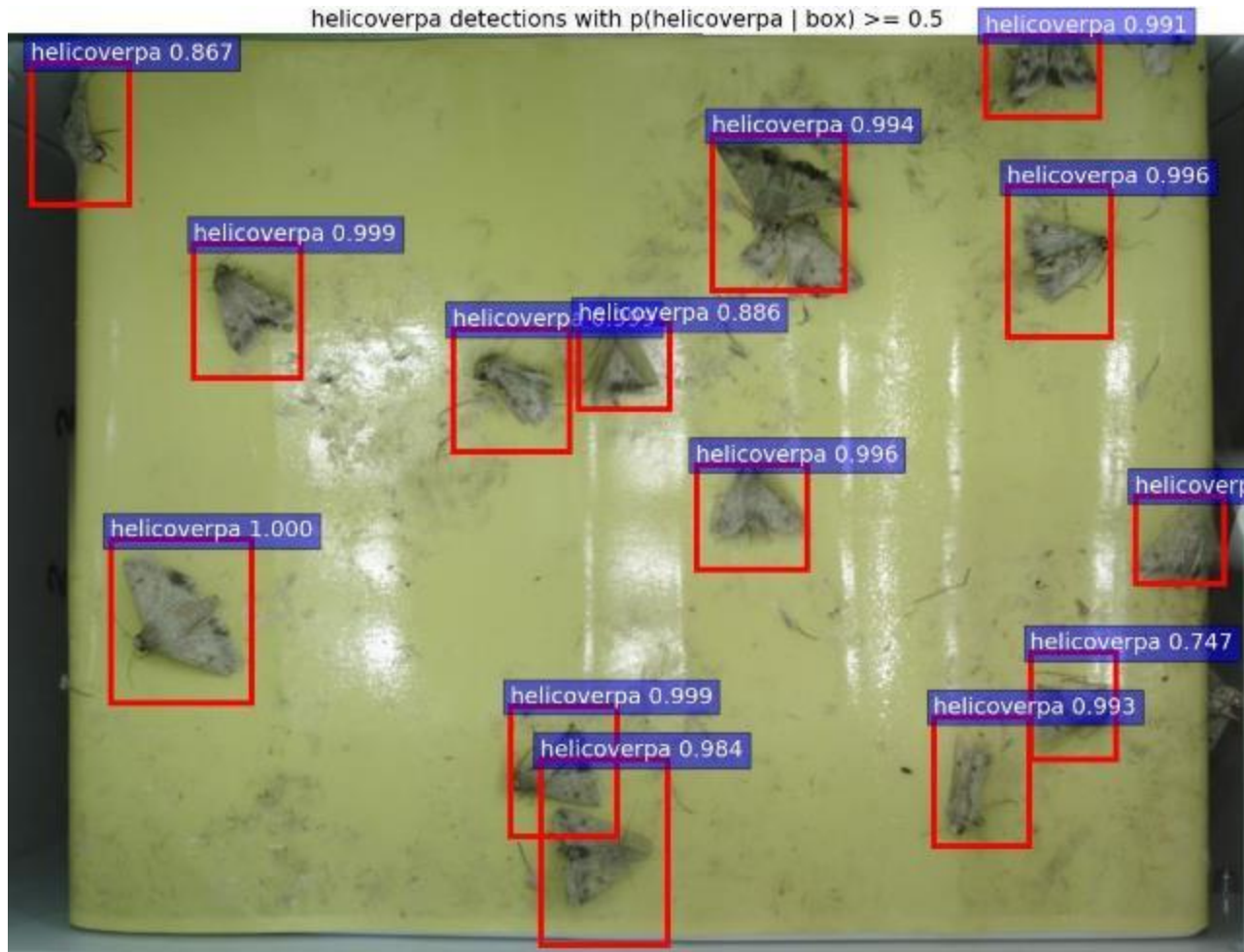
**Understanding**



# Automated, frequent, reliable and accurate pest data collection



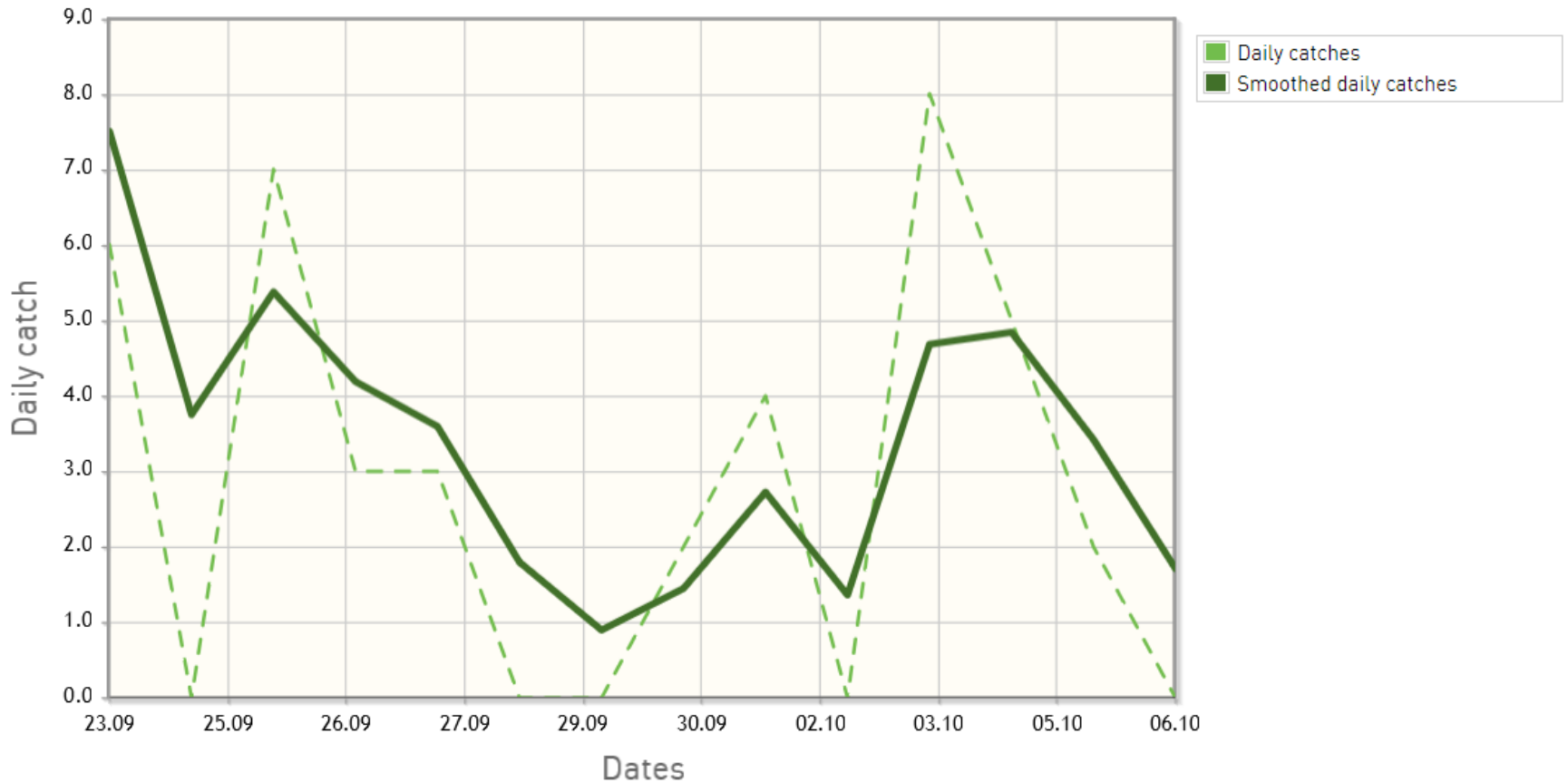
# Deep learning used for automated pest marking and counting insects



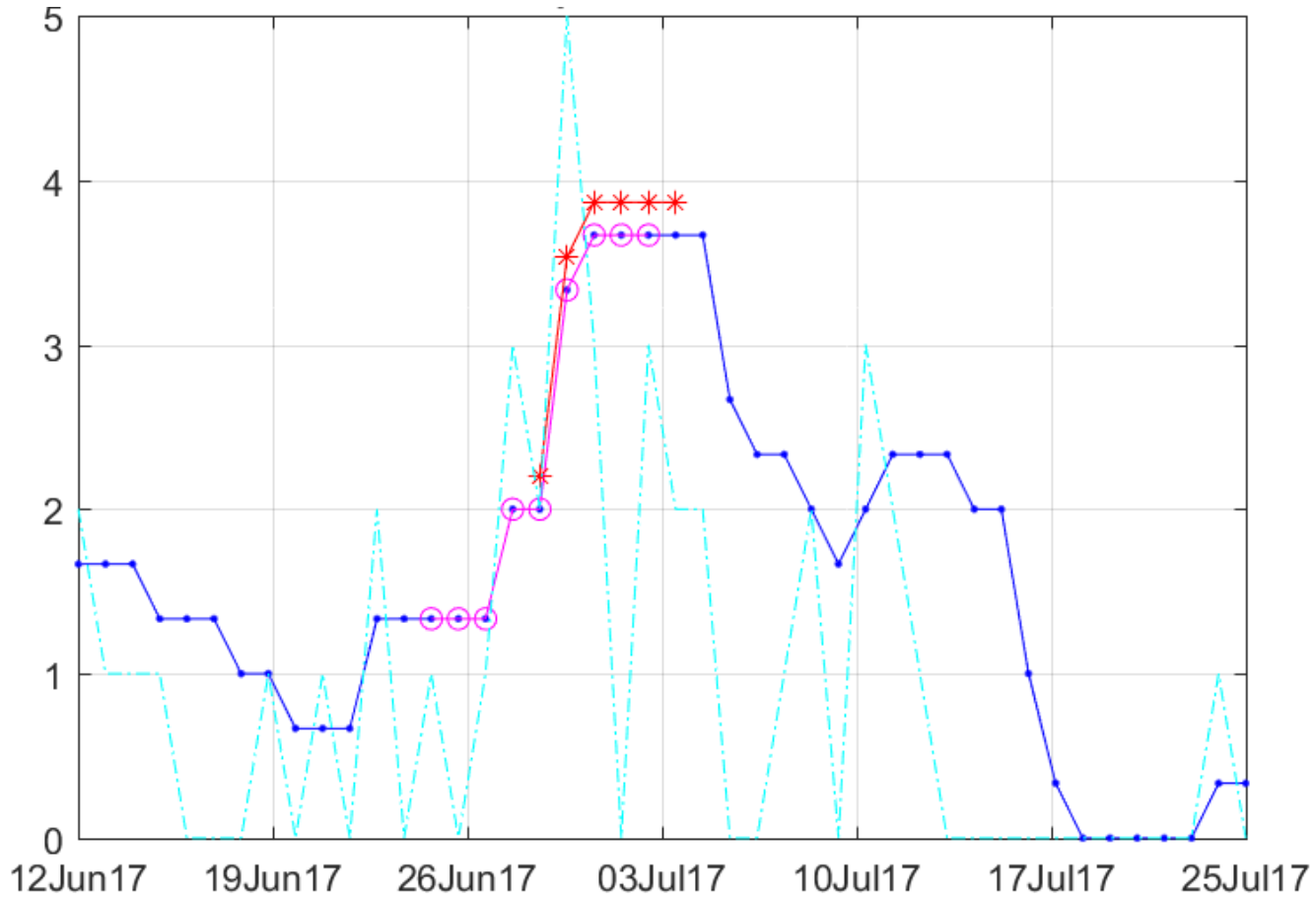


# Identifying peaks

Daily catches chart



# Trapview predictive service



Red Asterisk – forecast of pest population growth



# Timing problem

..."a type of parasitic wasp, targets all larval stages of leaf miners, **specifically the second and third one.** Host feeding takes place when adult female wasp kills the larva inside the leaf mine",...

..."apply at **first egg hatch** based on pheromone trap catches and degree days after biofix dates. These pests must be controlled **before the larvae penetrate the fruit so early timing is critical**"....

## Device monitoring info

**Pest \***

Native budworm (*Helicoverpa punctigera*)

**Valid from \***

26.07.2017 00:00:00

**Crop \***

Peas (*Pisum sativum*)

**Valid from \***

05.09.2018 07:19:20

**Protection measure \***

Spraying

**Valid from \***

05.09.2018 07:19:20

**Location name \***

Hornsdale - Field Peas

**Location details**

Hornsdale Props, Don's 92 Hornsdale

**Valid from \***

06.09.2018 04:32:00

**Area radius (KM)**


1

SAVE

CLOSE



TODAY  
Plot #12 SW



EGGS

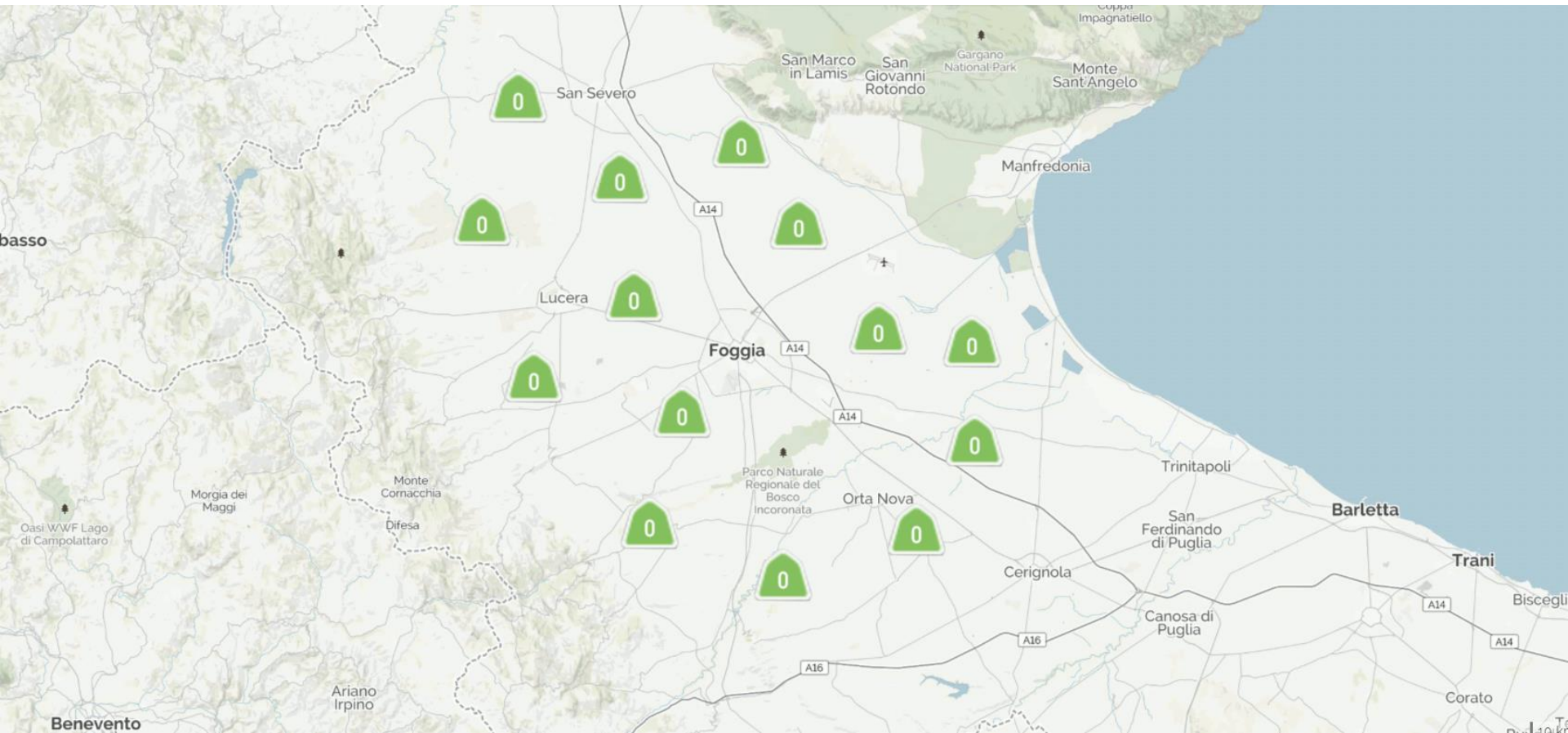
CALENDAR	PEST FORECAST	PEST PRESSURE
Sunday	Eggs	••
Monday	Eggs/Larvae	••🐛
Tuesday	Eggs/Larvae	••🐛
Wednesday	Eggs/Larvae	••🐛

⏴ ⏵

⏴ ⏵

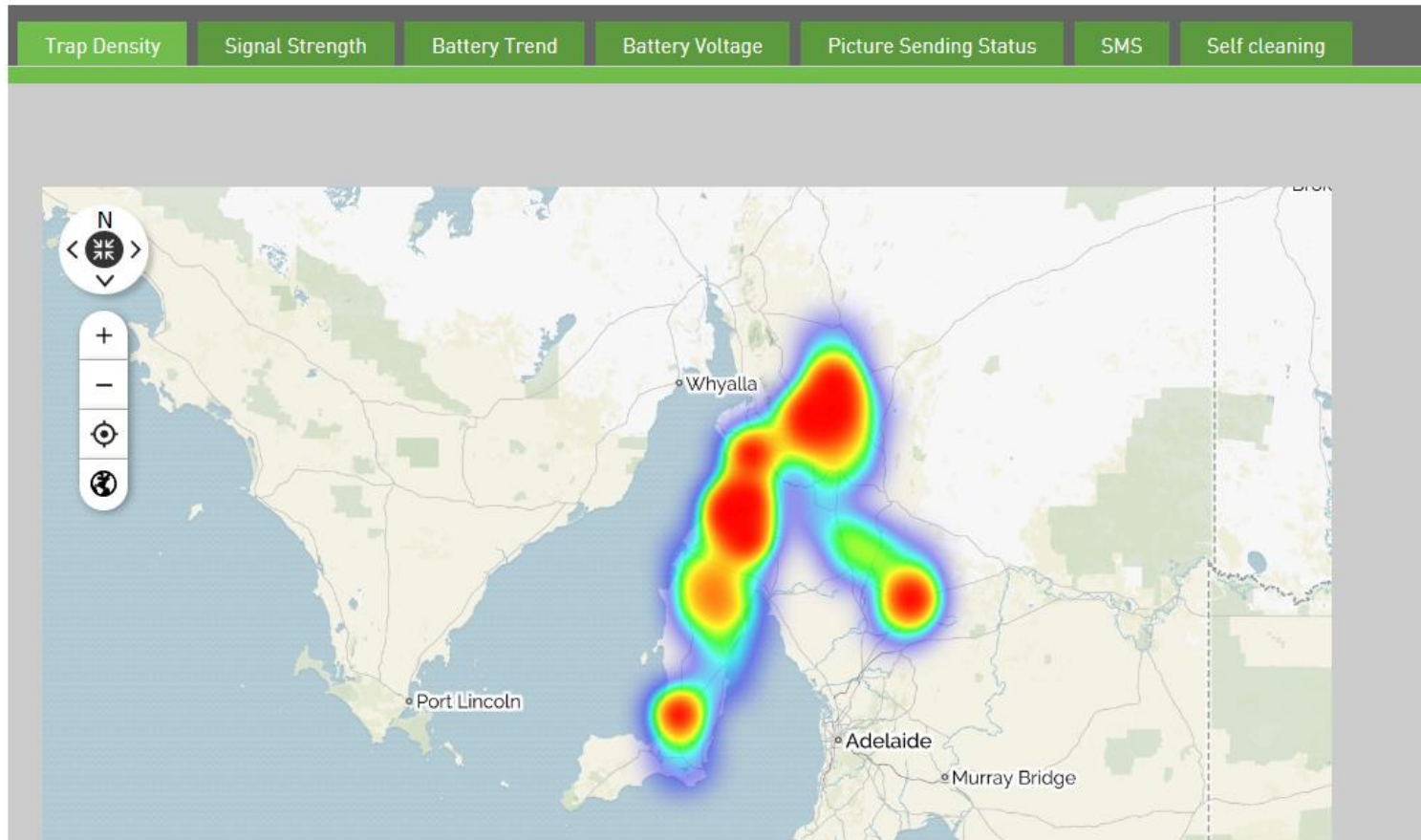


# Area-wide overview

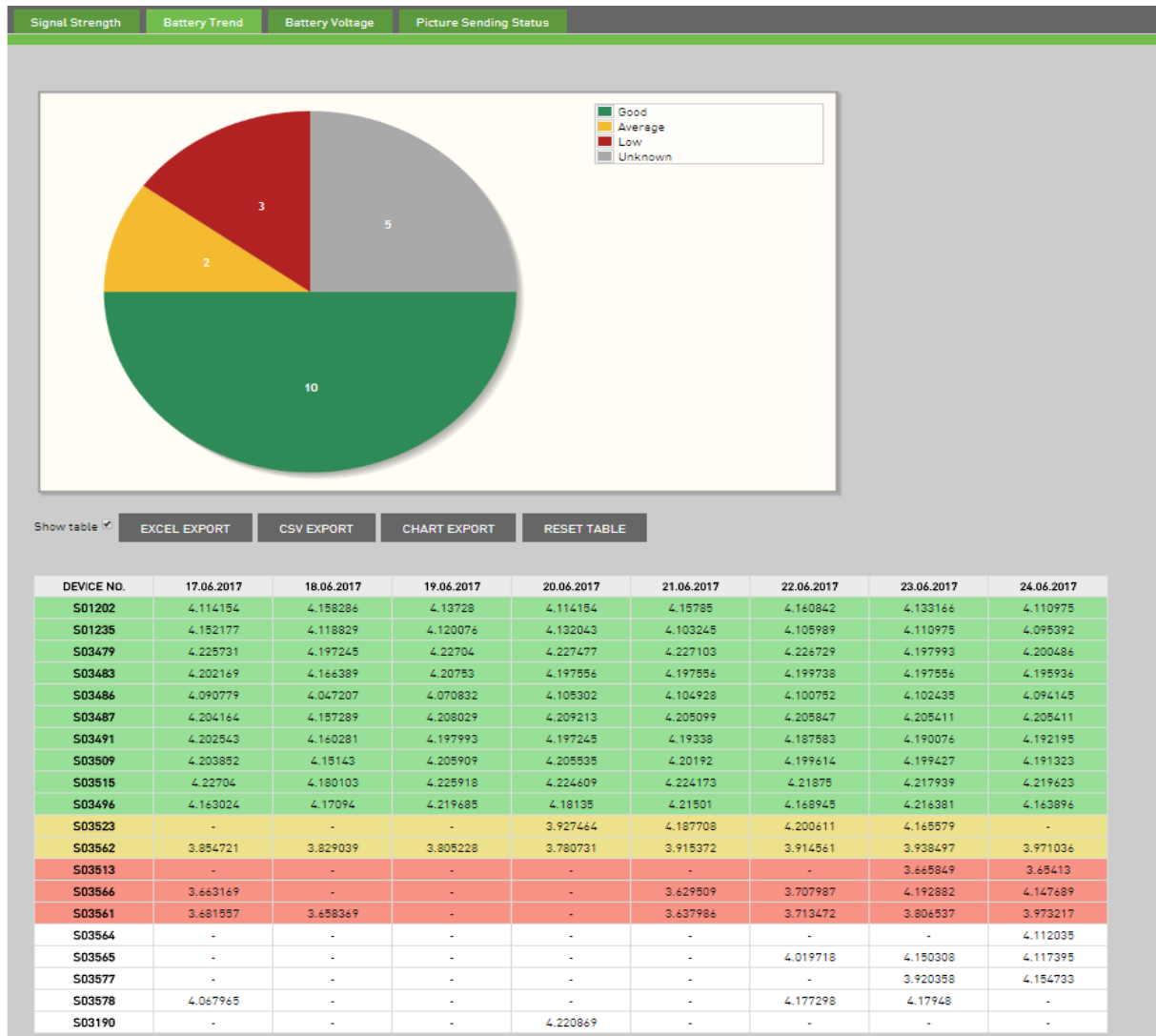


Population overview, accumulated pest pressure, trends,...

# Area-wide overview – network density map

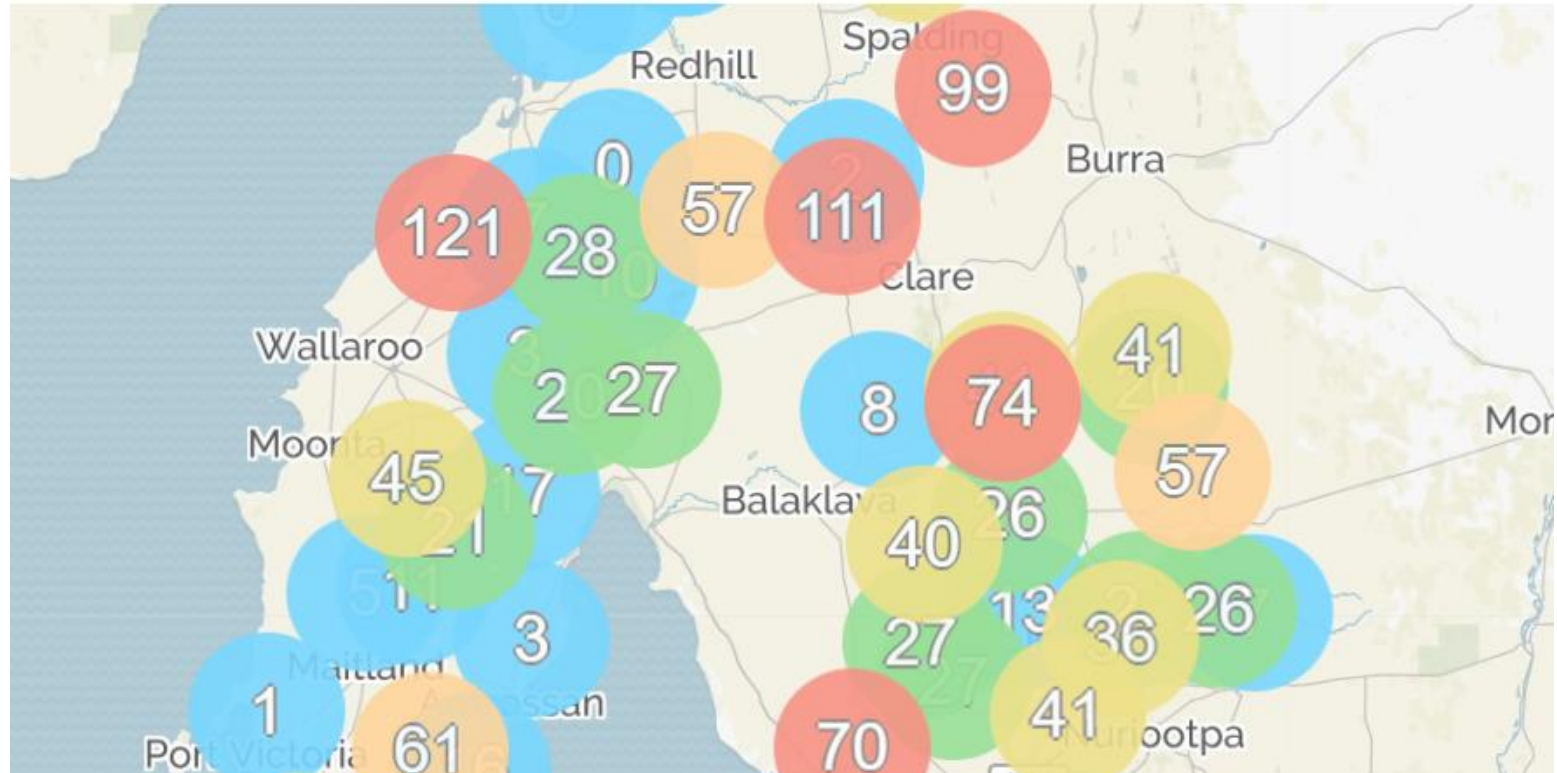


# Area-wide network health



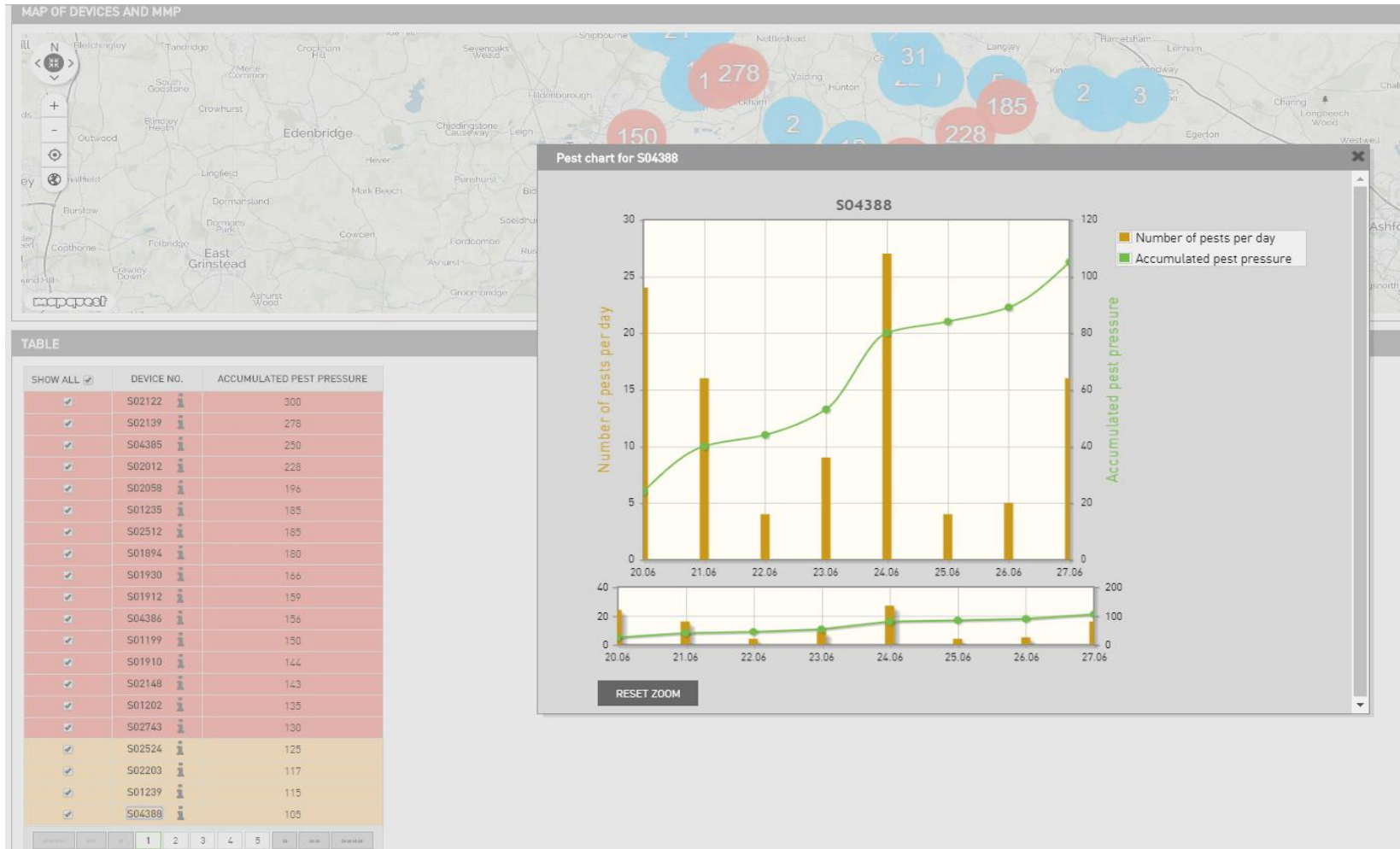
Signal strength, battery status, battery trends, picture sending status,...

# Area-wide overview



Population overview, accumulated pest pressure, trends,...

# Area-wide overview



Population overview, accumulated pest pressure, trends,...



Better,

more sustainably grown

food for everyone.