



Pest insects play a major role

October 2026

The need to produce more with less

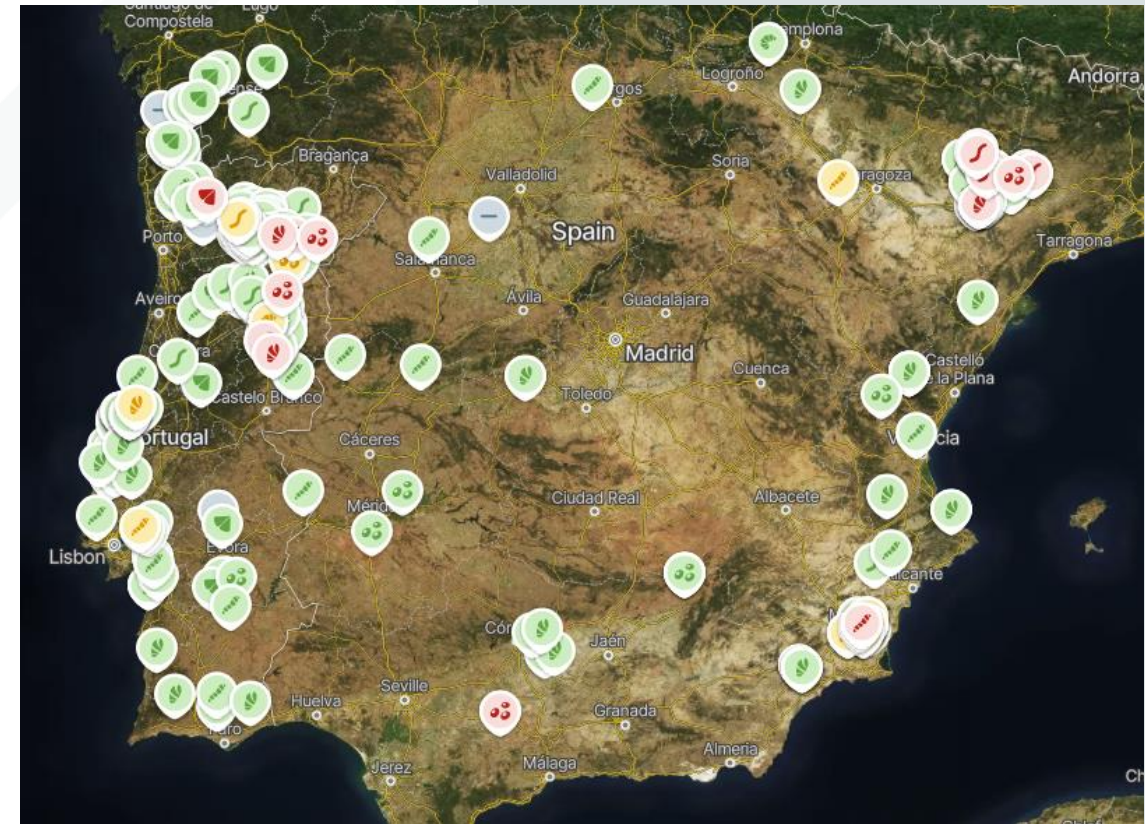
- sustainably
 - more self-sufficient
 - more yield
 - better quality
-
- less impact on environment
 - less residues
 - less crop protection products
 - less resources/people

...in changing climate

Trapview at a glance



Will pest insects be my problem in next 7 days?



Data management



Collect



Purify



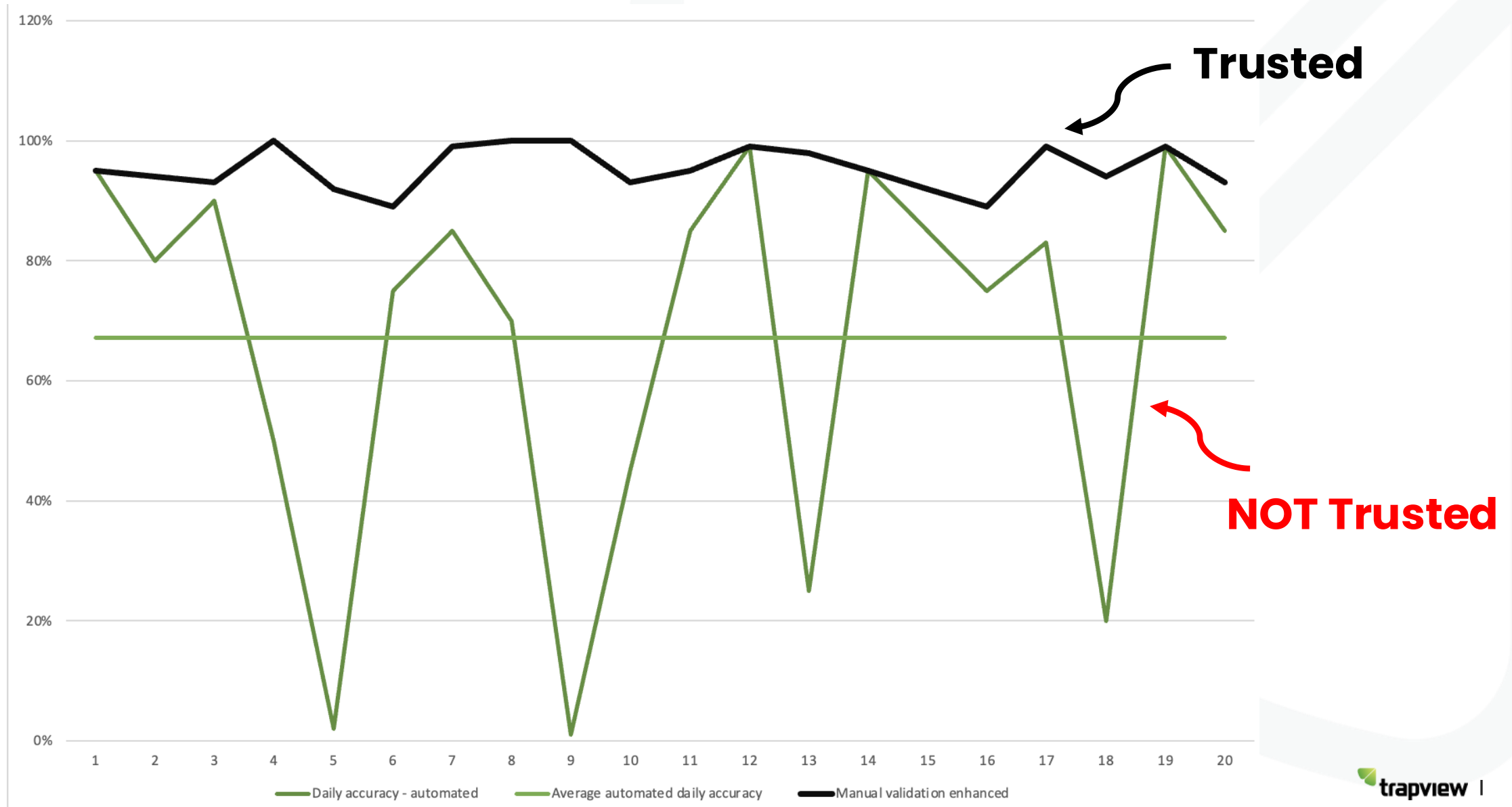
Enhance

Data collection



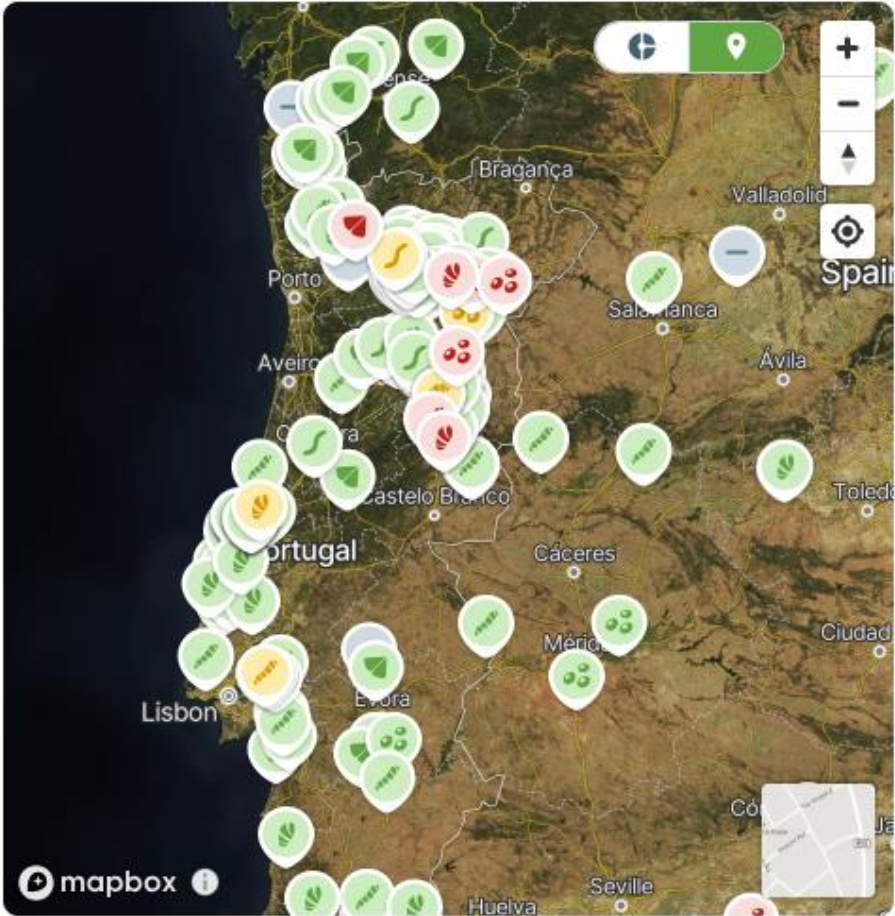
 **trapview**

Purification - Usability of (non)validated data



Data enhancement

Pest development in 7-10 days



Trap ID	Trap name	Pest	05/10	06/10	07/10	08/10	09/10	10/10	<	>
		Olive fruit fly (B...								
		Tomato leafmin...								
		Olive fruit fly (B...								
		Peach twig bor...								
		Oriental fruit m...								
		Diamond back ...								
		Codling moth (...)								
		Tomato leafmin...								

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➤ **70**

countries

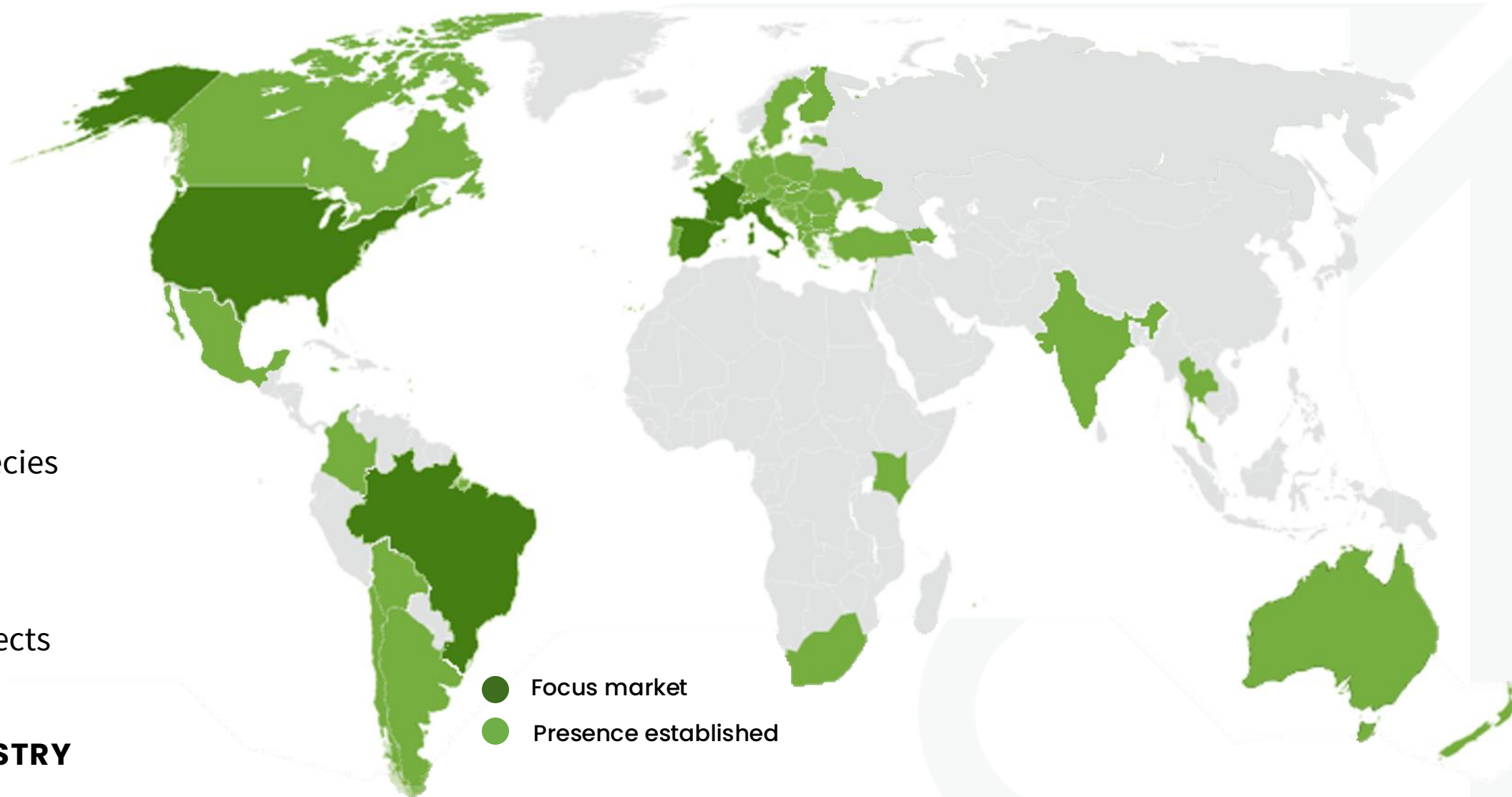
➤ **60**

pest insect species

➤ **50M**

Pictures of insects

**MAJOR INDUSTRY
PARTNERS**



- Focus market
- Presence established

"By using Trapview it was demonstrated a 40% of spraying applications can be saved with the same produce quality."

– Part of Eurofins 2021 trial report for CEPP certification in apples in France

Goals/Issues

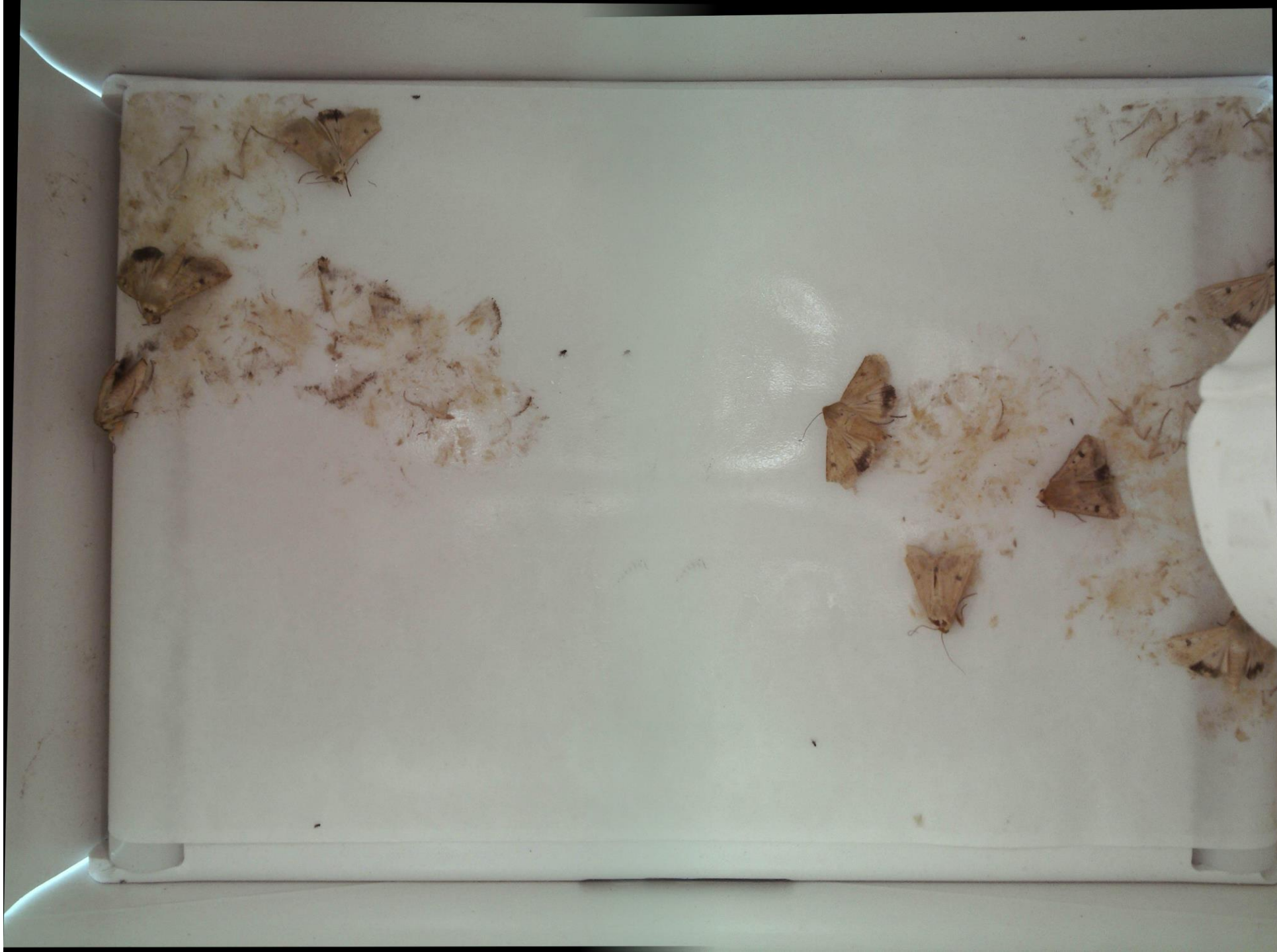
- 
- cheap and good data/images: automatic
 - good annotations: manual labour
 - good detection function: neural networks, deep learning, ViT

Example – *Helicoverpa armigera*

Cotton bollworm, južna plodovrtka

- Tomato, eggplant, capsicum
 - Body length 12 – 20 mm,
 - wingspan of 30 – 40 mm
 - 500x500 pixels
-
- Examples of Trapview images are on the next slide.



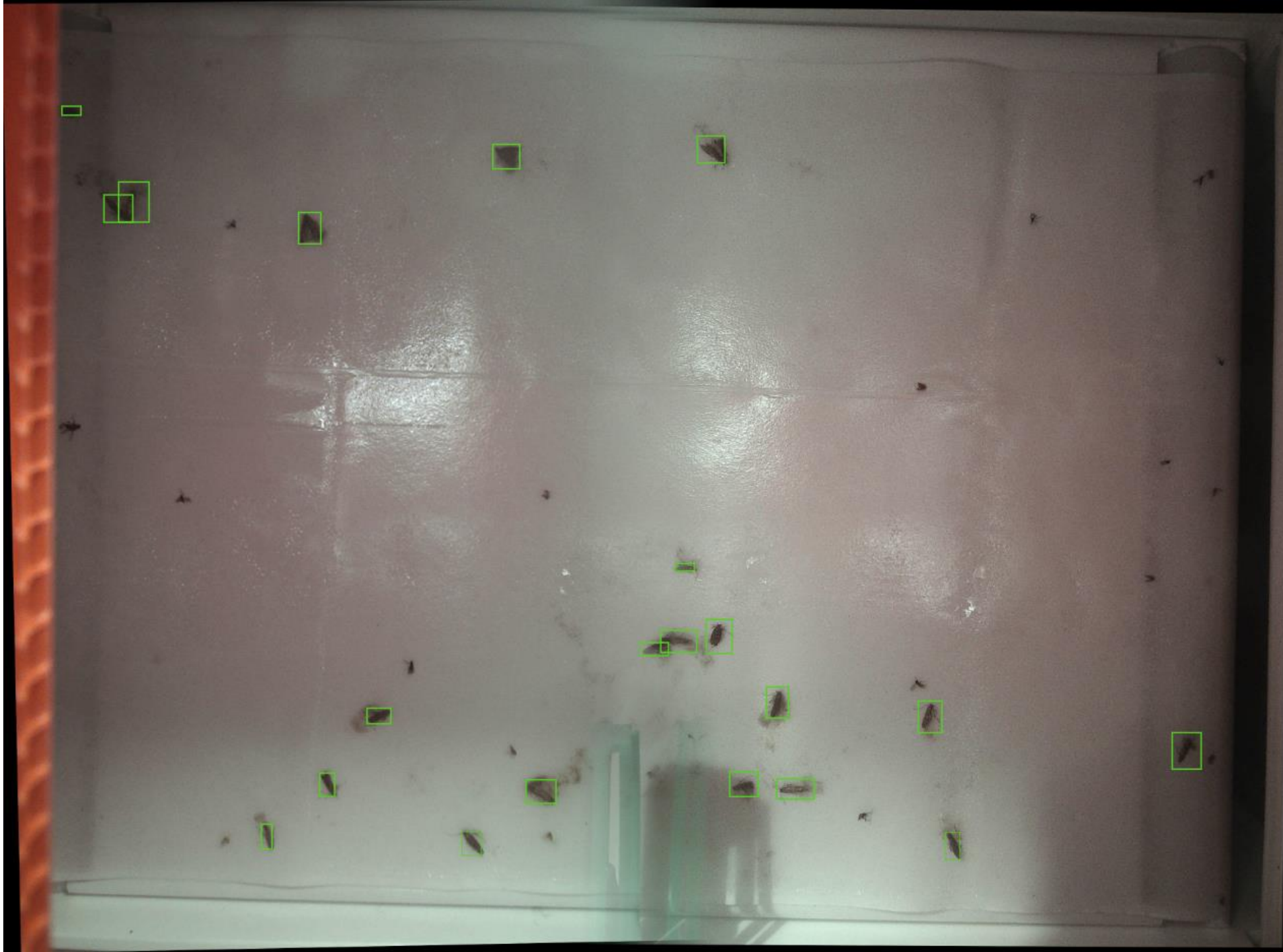


Different pest sizes

Tuta absoluta

- Tomato, eggplant.....
 - 6-7 mm in size
 - 100 x 100 pixels
-
- Examples of Trapview images are on the next slide.

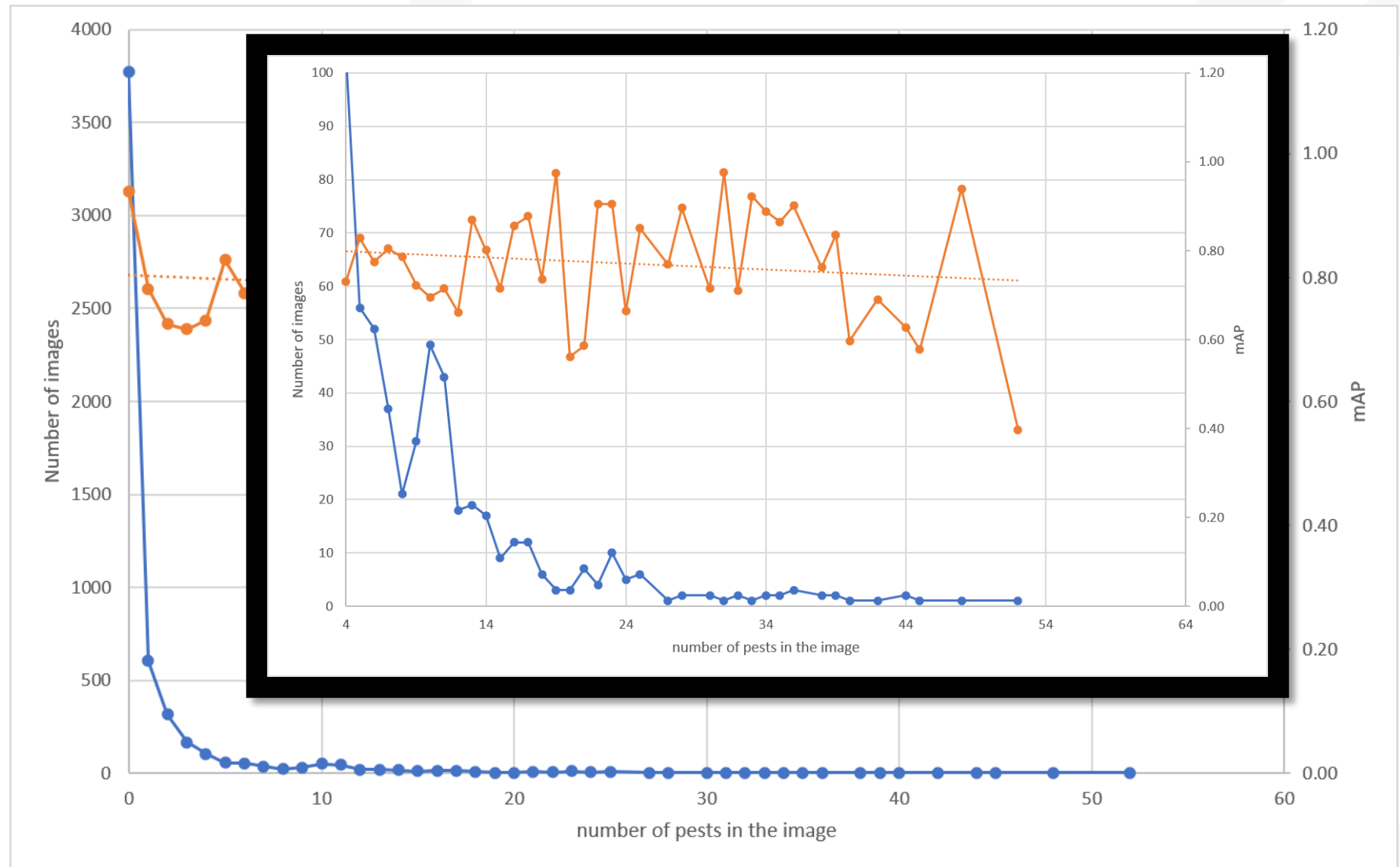




Ostrinia nubilalis – light trap (not pheromone)



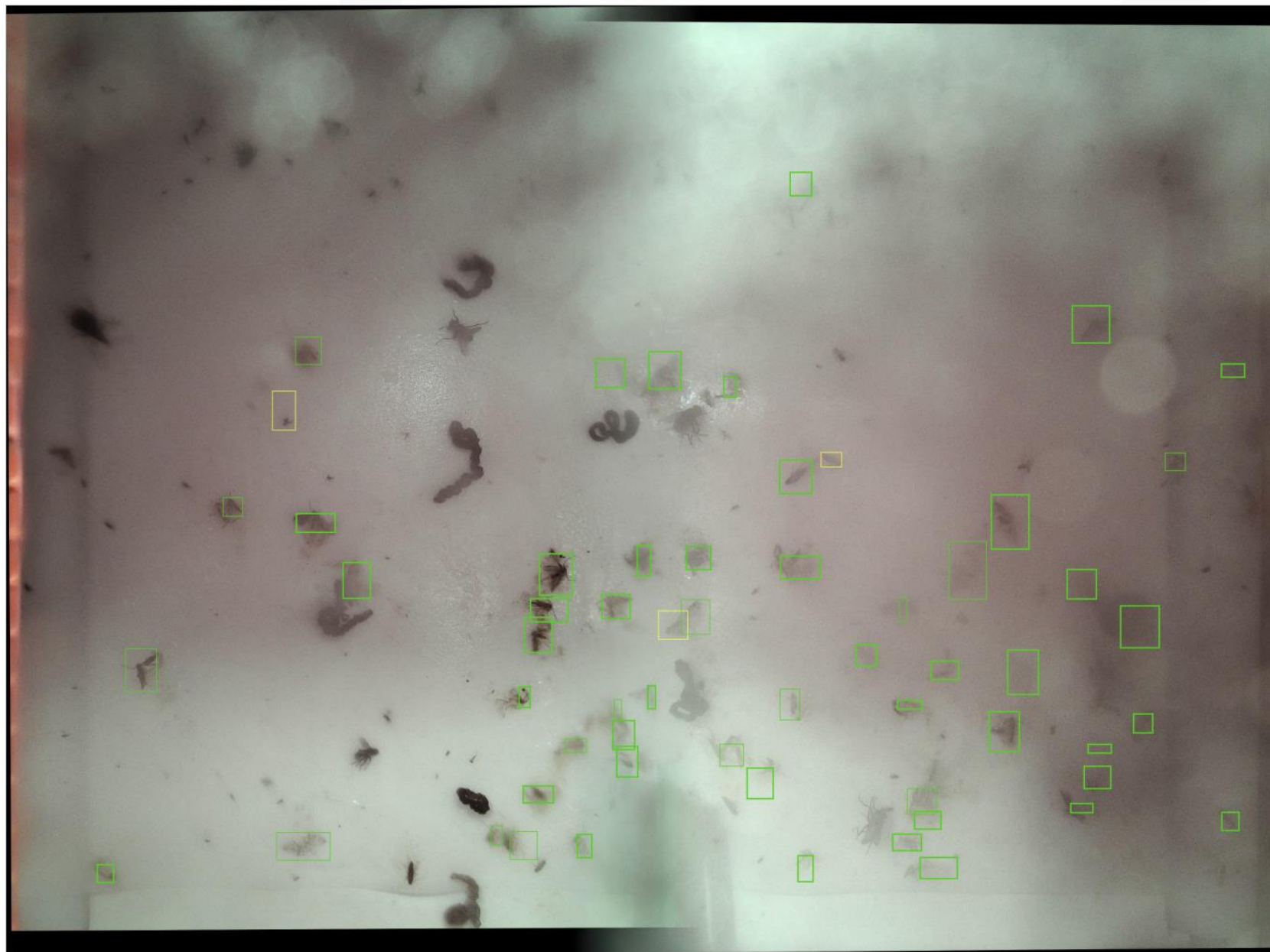
Statistics – mAP: *Ostrinia nubilalis*



Marking is important

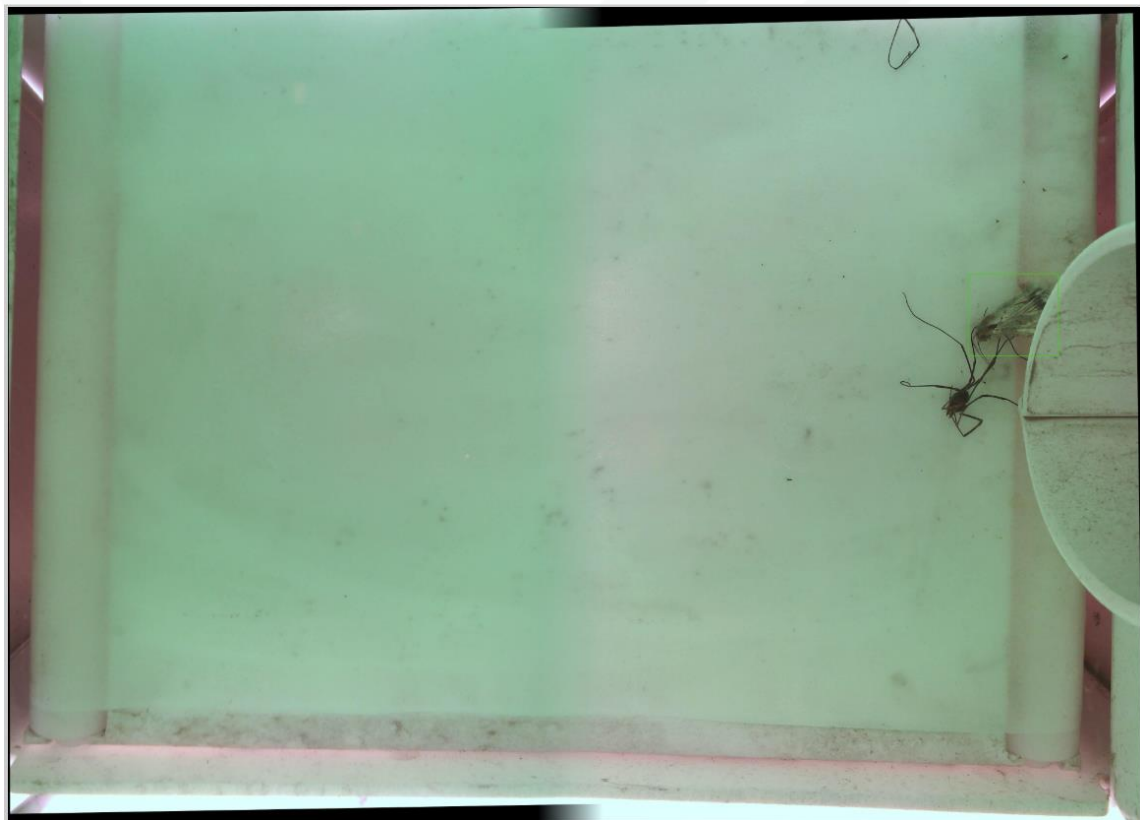


- How to help manual marking:
 - History
 - Copy marking
 - Delete all
- TODO:
 - Skip some images
 - Rectangle on click
 - Show also less probable objects (?)





Skip some of images during annotation Day 1



Day 2





Thank you

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