

In-silico boosted pest prevention

off-season focused IPM

against new + emerging fruit flies

TRAINING MATERIAL













### **ENTITY**

## **Detection**

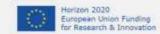




**DETECTION** 

# **Electronic Trapping**





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**MODULE 8** 





The module present the concept and components of electronic traps (smart-traps) for insect and principles of image analysis with emphasis to smart-traps developed for adult fruit flies



## Key Aspects TITLE OF MODULE

#### Unit 1 (TITLE) / KEY ASPECT 1 What is an electronic trap ("smart-Trap")

Discussion Question #1: What is the aim and use of electronic traps in applied entomology?

Discussion Question #2: What are the main components of the insect electronic-traps and their function?

Discussion Question #3: Which sensors are commonly used to detect and classify insects?

#### Unit 2 (TITLE) / KEY ASPECT 2 Image Analysis of Fruit Flies

Discussion Question #1: What is image analysis and machine learning and how can be used in surveillance and monitoring of insects and fruit flies

Discussion Question #2: Application of machine learning to the identification of fruit flies