



Fruit Flies In-silico
Prevention & Management

FF-IPM

In-silico boosted pest prevention
off-season focused IPM

against new + emerging fruit flies

TRAINING MATERIAL



Horizon 2020
European Union Funding
for Research & Innovation





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ENTITY

Detection





FF•IPM Fruit Flies In-silico
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DETECTION

Fruit-fly detection - concepts and approaches



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AUTHOR(S)

**Nikolaos
Papadopoulos
& David Nestel**

PARTNER(S)

**University of Thessaly
Agricultural Research
Organization**

MODULE 6



Key Aspects

FRUIT FLY DETECTION CONCEPTS
AND APPROACHES

Unit 1: Concepts of detection / Key Aspect 1 (early incursion of established or transient populations)

Discussion Question #1 How biological invasion are defined?

Discussion Question #2 Which are the stages of biological invasions?

Discussion Question #3 What is detection? Why is detection different from interception?

Discussion Question #4 Why detection is important?

Unit 2: Approaches and methodologies of detection/KEY ASPECTS 2 (concepts, current approaches and methodologies)

Discussion Question #5 What is the minimum detectable population?

Discussion Question #6 What is the allee effect and how is related with fruit fly detection?

Discussion Question #7 How is an incursion interpreted?

Discussion Question #8 How are fruit flies detected?

Unit 3: Novel tools and approaches /KEY ASPECTS 3 (Adult trapping, Fruit Sampling)

Discussion Question #9 What tools for fruit fly detection have been developed by the FF-IPM program?

Discussion Question #10 What are the approaches and concepts of the FF-IPM program to support detection of invasive fruit flies?



Learning outcomes

FRUIT FLY DETECTION CONCEPTS
AND APPROACHES

Objectives of the module

The ambition of the current module is to provide an in-depth account on concepts, approaches, strategies and methods used for detecting invasive fruit flies, and to serve as standard training material for training and educating phytosanitary inspectors, importing companies, NPPOs.

Despite the long experience of officials at different levels as far as fruit fly detection is regarded there is a loose connection to between actions and scientific advances both in practice and theory.

Module #6 of the FF-IPM project is coming to bridge the gap and serve as a first step towards establishing a continuous education to those involved in detection actions.