

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

**PROJECT DELIVERABLE REPORT**

**Deliverable D5.2: Prototype of the DS-Alert System developed**



**Fruit Flies In-silico  
Prevention & Management**

**FF•IPM**

**Project Title:**

In-silico boosted, pest prevention and off-season focused IPM against new and emerging fruit flies ('OFF-Season' FF-IPM)

SFS-2018-2

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## 1 Summary

The aim of the task is to develop a prototype of a Decision-Support-Alert system for stakeholders. In this case, the primary stakeholders are the NPPOs, and we are aiming to develop a system to alert them to invasion risks from the fruit fly (Tephritidae) species of concern. The alert system is complex. At this stage we have developed prototypes for each of the sub-systems, that together constitute the overall system prototype. The tightly integrated system that brings all components together is currently under compilation and development. While some interconnexions between sub-components still need to be automated, the system functions can all be demonstrated. These sub-systems are sufficiently developed for us to confirm with the relevant stakeholder groups that the sub-systems are useful based on the prototype outputs. From M25 to M46 we will engage with stakeholders in an interactive series of consultations to refine and integrate the sub-systems into a highly automated modular alert system and to define desirable system enhancements.

In this Deliverable we describe in detail the state of each of the component sub-systems and its functionalities, and where relevant, how they interact.