



2nd FF-IPM STAKEHOLDERS WORKSHOP
Methods and strategies for prevention of fruit fly invasion and expansion
August 22, 2023
Venue: The Capital Mbombela, 4 Penny Gum St, West Acres, Mbombela

Trade of fresh commodities, movement of people between continents and regions, and changes in landscapes and global climate, all are contributing to the risk of expansion and introduction of invasive pests including fruit flies into new areas. This situation is having important socio-economic consequences for agriculture. FF-IPM (“*in-silico* boosted, pest prevention and off-season focused IPM against new and emerging fruit flies”), supported by an EU Horizon 2020 RIA action, approaches the risk of fruit fly emergence and invasion by developing and incorporating new tools and concepts into a novel decision support system (DSS). The novel DSS is aimed to assist National Plant Protection Organizations (NPPO’s) and other stakeholders to survey for fruit flies more efficiently, and in the event of an incursion, to predict the population dynamics of fruit flies under different incursion management scenarios. In addition, the project aims to develop and validate novel spatio-temporal optimization strategies for early detection system of invasive fruit flies in order to prevent their invasion and expansion.

We conducted a first workshop at the beginning of the project in December 2019 to understand the challenges that NPPO’s, growers and other stakeholders are facing in managing plant health threats from invasive fruit flies. In this second workshop, we aim to present the FF-IPM tools following that initial meeting and discuss the next steps in their application.

We welcome you to the workshop and look forward to your participation.

Aruna Manrakhan

Local organizer under FF-IPM project

Research Entomologist & Fruit fly Programme Co-ordinator

Citrus Research International



FF-IPM Fruit Flies In-silico
Prevention & Management



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Agenda

8:30-9:00: Gathering

Section I: Introduction to the Workshop

9:00-9:30: Welcome and Presentations (attendants)

9:30-10:00: Introduction to the Workshop (*FF-IPM* Developments & Applications)
(**D. Nestel**)

Section II: *FF-IPM* Invasive fruit flies DSS-Alert and Early-Warning Strategy

10:00-10:30: Overview of DSS-Alert and Early-Warning Strategy (**D. Nestel** & D.
Kriticos*)

10:30-11:00: Coffee Break



11:00-12:30: DSS-Alert: Tools and Demonstration (D. Kriticos* and A. Szyniszewska*)

12:30-13:30: Lunch

13:30-15:30: Early-Warning Strategy: Tools and Demonstrations (**D. Nestel**, A. Szyniszewska* & **B. Shaked**)

Section III: The case of South Africa (*Bactrocera dorsalis*)

15:30-16:30: Tests of FF-IPM tools on *B. dorsalis* in South Africa and potential application for pest free areas (**A. Manrakhan**)

Section IV: Closure

16:30-17:00: Next Steps & Feedback (all)

* Remote attendance