



Food and Agriculture
Organization of the
United Nations



International
Plant Protection
Convention



INTERNATIONAL YEAR OF
PLANT HEALTH

2020

PROTECTING PLANTS,
PROTECTING LIFE

**INTERACTIONS WITH
COUNTRIES AND
PARTNERS**

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Italian NPPO activities on FAW

European Union  legislation on FAW includes:

- phytosanitary certificates for specific commodities
point 25 of Annex VII of Implementing Regulation 2019/2072
- specific import requirement and duty of detection
survey
Commission Implementing Decision 2018/638
amended by Commission Implementing Decision 2019/1598
- Contingency plan by 2023
“priority quarantine pest” as per the Commission Delegated Regulation
2019/1702

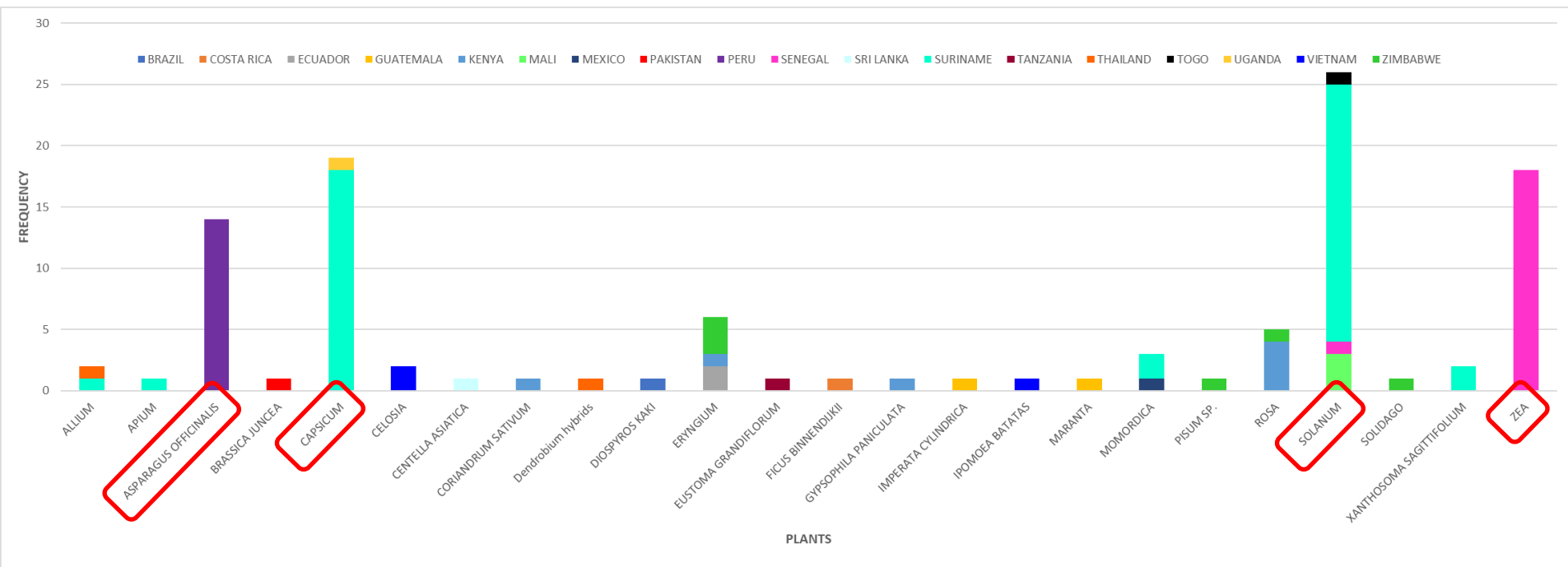
Chrysanthemum sp.
Dianthus sp.
Pelargonium sp.

Fruits of *Capsicum*
Momordica
Solanum (3 species)
Plants of *Zea mays*



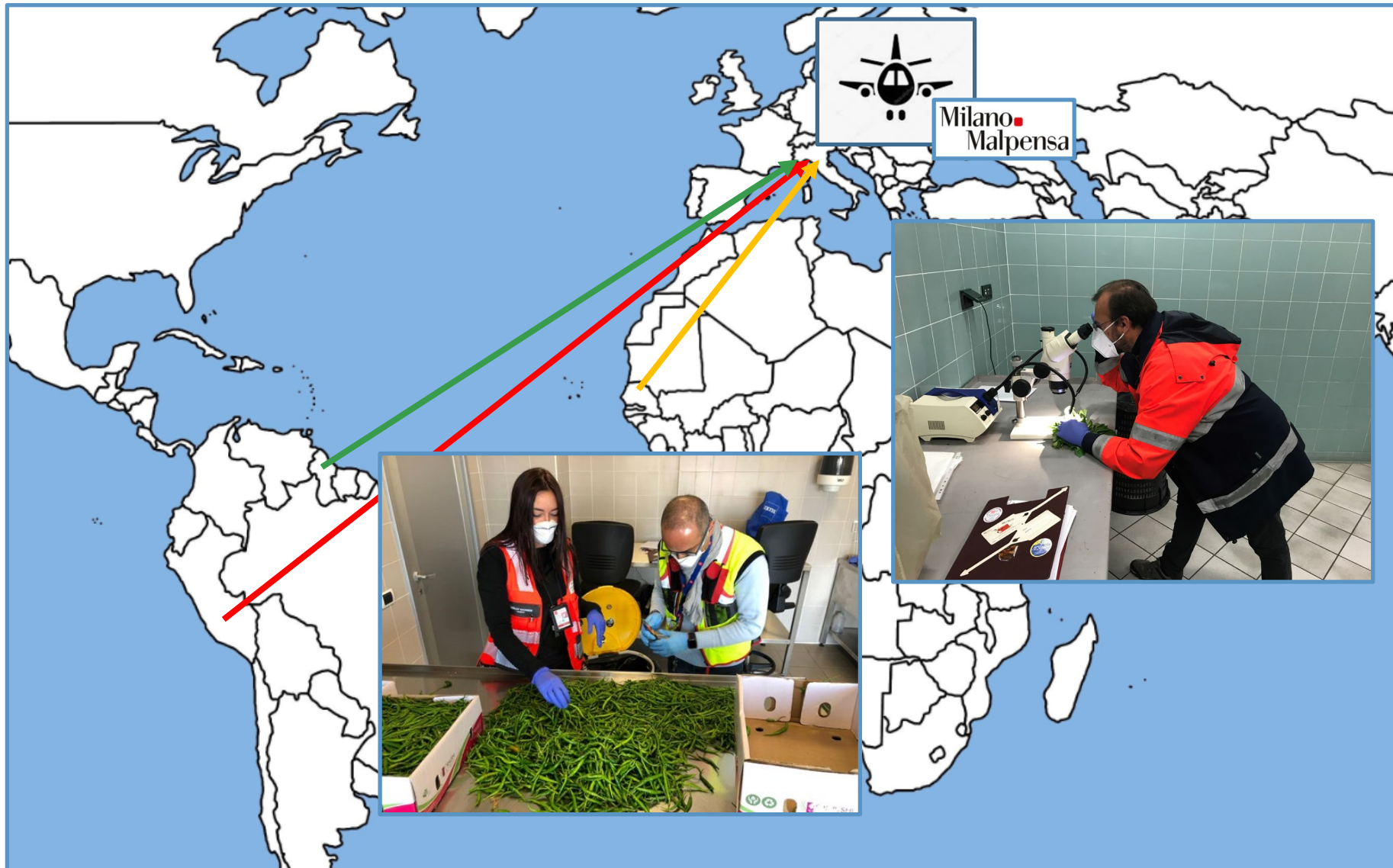


Risk assessment of FAW accidental introduction by imported commodities



EUROPHYT data (2018- till October 2020) processed by the Lombardy Plant Protection Service







Detection survey

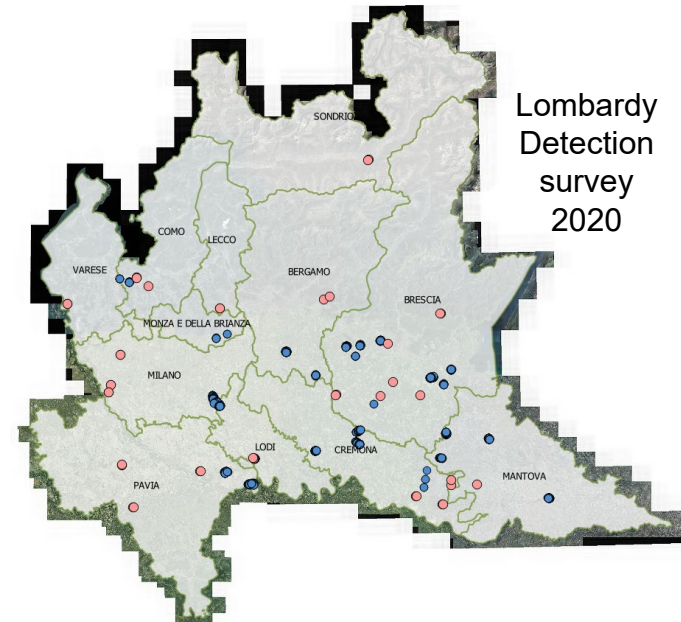
Trapping



Visual examination



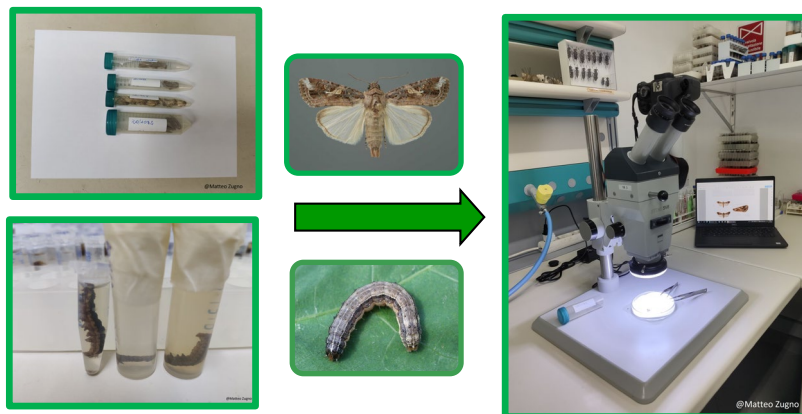
Sampling



Laboratory analysis on samples for identification

Laboratory of Lombardy Plant Protection Service

Morphological identification



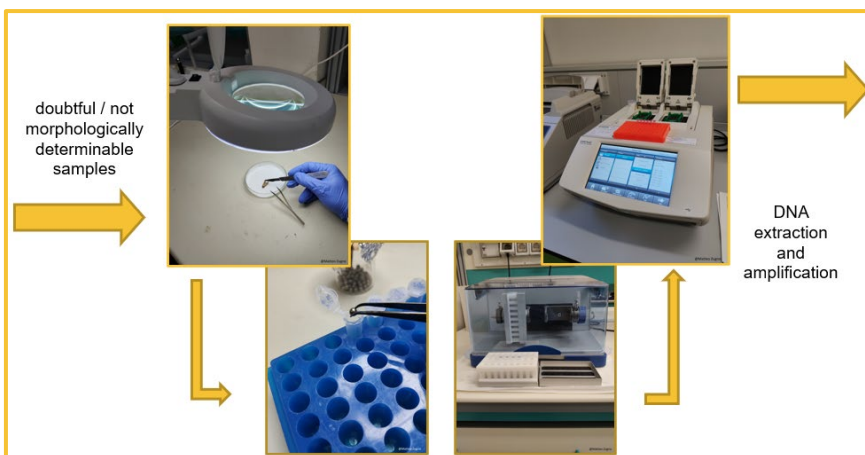
• Morphological characteristics
• Identification keys

• Morphological characteristics
• Identification keys

• Male genitalia structure
• Identification keys

PM, EPPO (2015): 7/124 (1) *Spodoptera littoralis*, *Spodoptera litura*, *Spodoptera frugiperda*, *Spodoptera eridania*, EPPO Bul. 45, 410-444.

Molecular analysis



CURRENTLY

Generic primers
LCO1490/HCO2198 (Folmer *et al.*, 1994)

DNA extracted from adults and larvae

sequencing of LCO1490/HCO2198 amplified

PURPOSES FOR 2021

PM 7/124 (1) *Spodoptera littoralis*, *Spodoptera litura*, *Spodoptera frugiperda*, *Spodoptera eridania*

Appendix 4 – Identification of *Spodoptera eridania* and *S. frugiperda* using real-time PCR

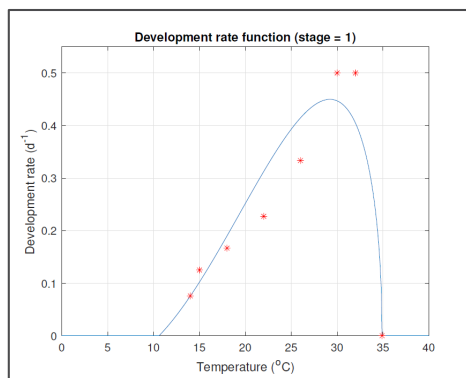
Identification of adults, larvae and eggs of *Spodoptera eridania* and *S. frugiperda* using realtime PCR based on TaqMan chemistry

Contingency plan

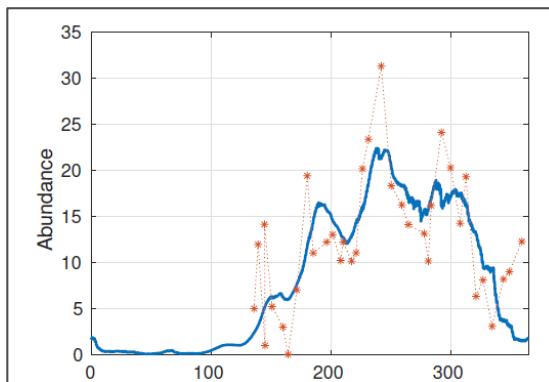
The plan shall contain information concerning the decision-making processes, procedures and protocols to be followed and the minimum resources to be made in the event of an officially confirmed or suspected presence of FAW

An Italian research group is working on the application of a physiologically-based demographic model to forecast the potential distribution and abundance of FAW in Europe

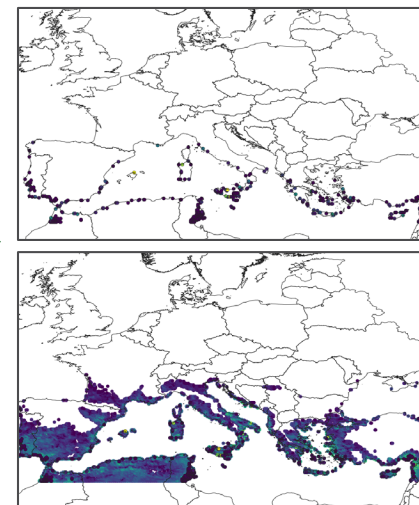
Individual level



Population level



Risk scenario comparison





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Contact us

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www.fao.org/plant-health-2020



mipaaf

Ministero delle
politiche agricole
alimentari e forestali



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Lombardia**
Plant Protection Service

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@pestsurvey



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