The European and Mediterranean Plant Protection Organization & **Xylella fastidiosa**

Event: High Level Meeting on Xylella fastidiosa

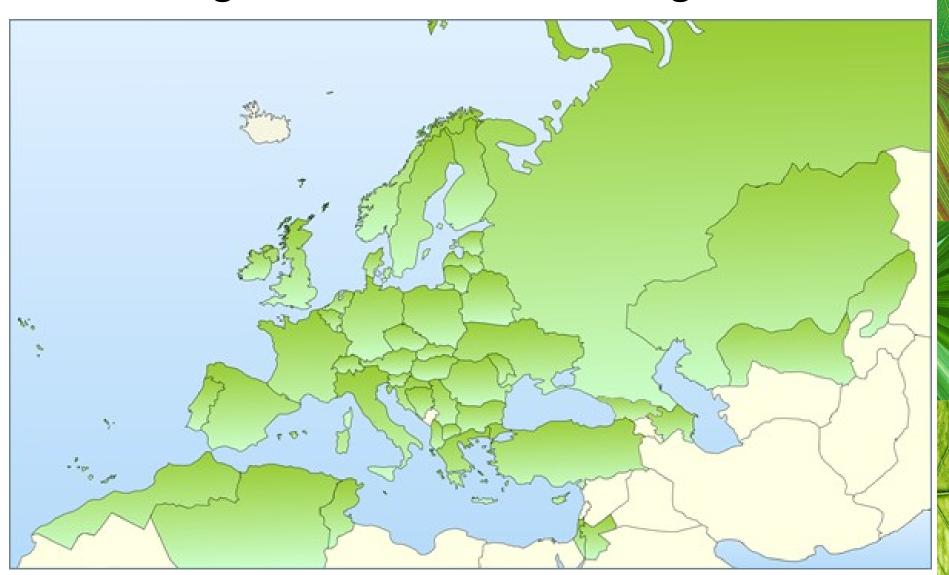
Date: 2017-12-01

Venue: Paris

Martin Ward (Director General) - hq@eppo.int



1951 Convention – 15 countries, now 51 1 of 10 Regional Plant Protection Organizations



Remit

- Quarantine Pests
- Regulated Non Quarantine Pests
- Efficacy of Plant Protection Products
- Invasive Alien Plants
- Biological Control Agents

by:

- Sharing information and expertise through networks
- Drafting and adopting regional technical standards
- Input to development of international standards

EPPO Work on Quarantine Pests

- Horizon scanning
- Sharing intelligence (monthly "reporting service")
- Public database of information on quarantine pests
 - distribution
 - host range
 - symptoms
 - assessments and reports
 - relevant standards
- Pest Risk Analysis and recommendations for regulation
- Diagnostic protocols
- Inspection standards
- Guidance on national control systems

EPPO and Xylella fastidiosa

- EPPO recommended Xf for regulation in 1981
- American vectors also recommended for regulation
- Basis was risks to vines and citrus
- Regular updates since through EPPO Reporting Service
- Wide host range but olive not at first foreseen as a potential major host

Since 2013 findings in Italy

- Rapid Pest Risk Analysis by EFSA (EPPO and EFSA coordinate on Pest Risk Analyses to avoid duplication)
- Revised EPPO Diagnostic Protocol
- New EPPO Inspection Standards

EPPO Diagnostic Protocol for *Xf - 1*

- EPPO Standard PM 7/24 first approved 2003
- Focus on citrus and vine
- Revision started December 2015
- EPPO Panel on Diagnostics in Bacteriology
- Expert Working Group
 - experts from AT, DE, FR, IT, NL, SI, ES
- Input from USA and Brazil experts
- Two Inspection Standards developed in parallel
 - inspection of consignments
 - inspection of places of production

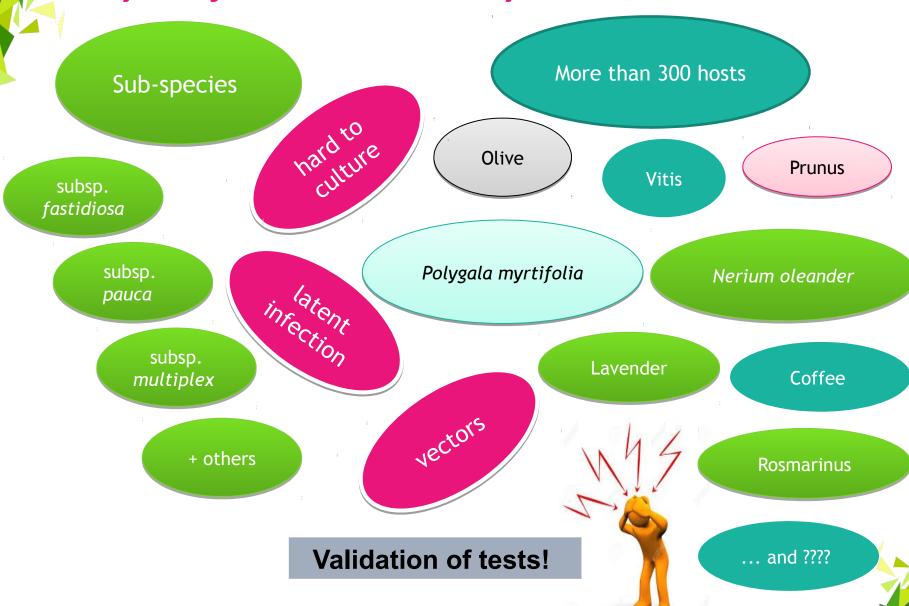
EPPO Diagnostic Protocol for *Xf - 2*

- Revised EPPO Standard PM 7/24 (2) approved July 2016
- Revision included
 - new tests for infection in plant material and vectors
 - more descriptions and pictures of symptoms
 - more details of sampling and sample preparation
 - flow diagrams to take into account situations in different areas
- Two inspection Standards PM 3/81 and PM 3/82 approved September 2016
- Sampling approach in inspection standards aligned with requirements in diagnostic protocol

EPPO Diagnostic Protocol for *Xf - 3*

- Research continues
 - Two EU research projects XF-actors, Ponte
 - Two Euphresco transnational research projects
 (23 and 10 partners respectively Europe, N Africa, N America)
 - National research projects
- New information and experience on
 - determination of subspecies
- Research continuing on
 - asymptomatic material
 - vectors
 - culturing
 - new methods
- Third revision of PM 7/24 planned for early 2018; fourth revision to be initiated before summer 2018 when further information from projects is available

Xylella fastidiosa - not easy!



Symptoms, from EPPO Standards



Fig. 3 Leaf scorch symptoms on almond. Courtesy D. Boscia, CNR-Institute for Sustainable Plant Protection (IT).



Fig. 4 Scorch symptoms with distinct leaf burn surrounded by a dark line of demarcation between green and dead tissue. Courtesy P.M. Brennan University of Georgia (US).



Fig. 20 Symptoms on Polygala myrtifolia. Courtesy B. Legendre, Anses, Plant Health Laboratory (FR).



Fig. 11 Symptoms of quick olive decline syndrome. Courtesy D. Boscia, CNR-Institute for Sustainable Plant Protection (IT).



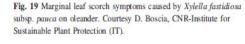
Fig. 12 Symptoms of quick olive decline syndrome. Courtesy D. Boscia, CNR-Institute for Sustainable Plant Protection (IT).



Fig. 9 Leaf scorch symptoms on Coffea sp. Courtesy M. Bergsma-Vlami, NPPO (NL).



Fig. 10 'Crespera' symptoms on Coffea sp. including curling of leaf margins, chlorosis and deformation (asymmetry). Courtesy M. Bergsma-Vlami, NPPO (NL).



EPPO Bacteriology Panel, Bari (IT), 2017-05



