



How can global plant health arrangements be improved to protect trees more effectively?

Event Institute of Chartered Foresters Conference

Date 22-23rd April 2015

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European and Mediterranean Plant Protection Organization



Content

- What are global plant health arrangements?
- What is EPPO?
- What is the problem (and solution)?



What are the arrangements?

- World Trade Organization Agreement 1994
- Sanitary and Phytosanitary Agreement 1994
- International Plant Protection Convention 1951 / 1997
 - International Standards for Phytosanitary Measures (ISPMs)
- European and Mediterranean Plant Protection Org'n 1951
 - EPPO Regional Standards
- European Union
 - EU Plant Health Regulations
- National Plant Protection Organizations
 - Negotiation of International Standards and Regulations
- Official plant health services, growers and traders
 - Implementation of International Standards and Regulations

International Standards (ISPMs)

- 36 ISPMs adopted since 1995
- Conceptual
 - ISPM 4: Requirements for Establishment of Pest Free Areas
 - ISPM 5: Glossary
 - ISPM 11: Pest Risk Analysis for Quarantine Pests
- Practical
 - ISPM 27: Diagnostic protocols
 - ISPM 28: Treatment protocols
- Commodity based
 - ISPM 15: Regulation of wood packaging material in intn'l trade
 - ISPM 33: Pest free potato microprop and minitubers
- All at www.ippc.int/static/media/files/publications/en/2014/12/16/ispm_list_2014-09-10_en-banner.pdf

Summary

- Application to trade of measures to exclude quarantine pests is permitted, with technical justification
- A quarantine pest is “a pest of potential economic [including environmental] importance to the area endangered thereby and
 - not yet present there,
or
 - present but not widely distributed and being officially controlled”

What is EPPO?

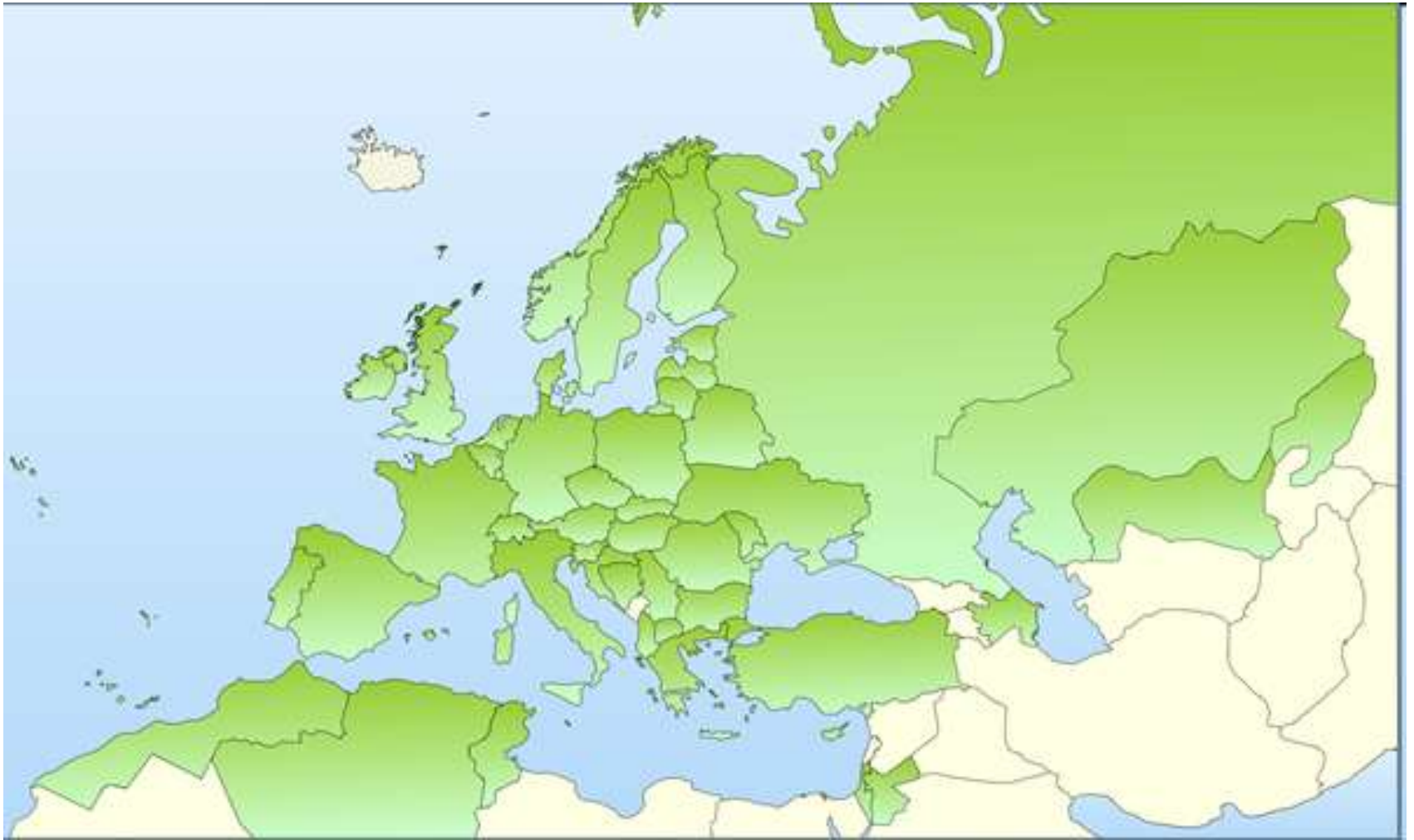


A Regional Plant Protection Organisation recognised by FAO under the International Plant Protection Convention (IPPC)



1951 EPPPO Convention – 15 countries

Now 50 member countries



Remit

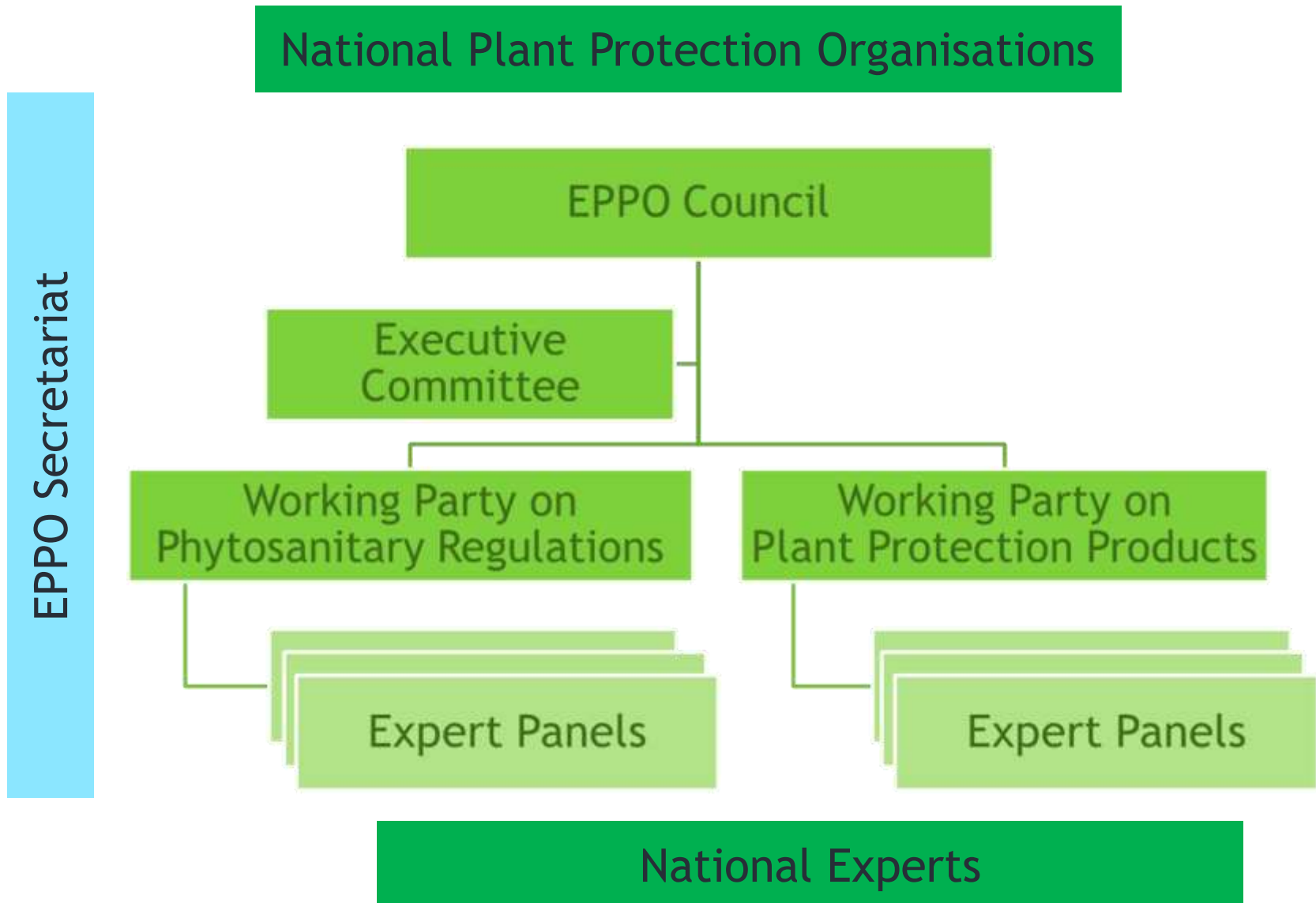
- Plant quarantine
- Plant certification schemes
- Efficacy of plant protection products
- Invasive alien plants
- Biological control agents

by:

- Development of technical standards
- Sharing intelligence and expertise through networks



Organisation



Phytosanitary Regulations Panels

- IPPC Affairs
- Risks and Measures
- Inspection Procedures
- Diagnostics
 - Entomology
 - Nematodes
 - Bacteria
 - Fungi
 - Virology
- **Forestry**
- Potatoes
- Invasive Alien Plants
- Biocontrol Agents

Plant Protection Products Panels

- General Standards
- Herbicides
- Insecticides and Fungicides
- Resistance
- Harmonisation of Data Requirements



Expert Working Groups

- Mainly for Pest Risk Analyses - PRA (five per year)
- Experts nominated by countries, selected by EPPO
- Expenses paid from EPPO budget
- 2014 three EWGs related to tree pests:
 - PRA on Thousand Cankers Disease (walnut)
 - PRA on *Heterobasidion irregulare* (pines)
 - study on non-manufactured wood commodities (chips etc.)



Information Services

- EPPO Bulletin
- New “EPPO Global Database” combining
 - data sheets
 - risk assessments
 - maps
 - pictures
 - all at www.eppo.int





Acidovorax citrulli (PSDMAC)

Overview

Distribution

Distribution map

Hosts

Pathways Hosts

Categorization

Reporting

Photos

Documents



Symptoms of *Acidovorax citrulli* on melon leaves.
Courtesy: Dr Andrea Minuto, Centro di Saggio, CERSAA, Albenga (IT)


[see all photos](#)

Basic information

EPPO Code: PSDMAC

Preferred name: *Acidovorax citrulli*

Author(s): (Schaad et al.) Schaad, Postnikova, Sechler, Clafin, Vidaver, Jones, Agarkova, Ignatov, Dickstein & Ramundo

Taxonomy

- | Bacteria (1BACTK)
- | --- Proteobacteria (1PROBP)
- | ----- Betaproteobacteria (1BETBC)
- | ----- Burkholderiales (1BURKO)
- | ----- Comamonadaceae (1COMAF)
- | ----- Acidovorax (1ACVRG)
- | ----- *Acidovorax citrulli* (PSDMAC)

Other scientific names

Name	Author(s)
<i>Acidovorax avenae</i> subsp. <i>citrulli</i>	(Schaad, Sowell, Goth, Colwell & Webb) Willems, Goor, Thielemans, Gillis, Kersters & De Ley
<i>Pseudomonas avenae</i> subsp. <i>citrulli</i>	(Schaad, Sowell, Goth, Colwell & Webb) Hu, Young & Triggs.

Common names

no data



Contingency Planning

- Standard on “Generic Elements for Contingency Plans”
- EPPO Inspectors Workshop - Kew, November 2014
- Encourage learning from others’ experience
- Potential database of eradication expertise



What are the problems?
What are the solutions?



Problems

- Resources - very small teams at most levels
- Free trade vs biosecurity balance - particularly Europe
 - new trades develop without risk assessment
 - certificates from exporting countries are assumed valid
- Reluctance to report pest problems
- Hard technical challenges
 - predicting how pests will behave in new areas
 - detecting pests while eradication is still possible
- Failure is more visible than success
- Barriers to collaboration between countries, disciplines



Solutions

- Globally
 - increase focus on implementation
 - scan horizon better (both ways) e.g. sentinel trees
- Regionally
 - take a more precautionary approach to new trades (EU)
 - assess and target risks more rapidly
 - test policies against surveillance and contingency plans
 - notice and quantify successes
- Collaborate more!
 - e.g. Euphresco



Euphresco Network at 4:9:2014



Thank you!

Thanks to:

EPPO Secretariat and Networks

More information from:

www.ippc.int

www.eppo.int

www.euphresco.net

www.bgci.org/ourwork/ipsn

http://ec.europa.eu/food/plant/standing_committees/sc_plant_health

http://ec.europa.eu/food/plant/plant_health_biosecurity/legislation/new_eu_rules

