



Food and Agriculture
Organization of the
United Nations



ورشة عمل خطط الطوارئ كتمرين محاكاة عملي
Contingency Exercise Workshop
Xylella fastidiosa

Hammamet, Tunisia, 26 – 28 May 2025

The approaches of NEPPO for the emerging pests in the NENA Region

Mohamed Habib Ben Jamâa
(NEPPO)



Regional Plant Protection Organizations RPPOs

APPPC, CA, COSAVE, IAPSC, EPPO
NEPPO, NAPPO, OIRSA, PPPO, and
AHFSA





The Organization for Plant Protection in the Middle East (NEPPO), a Regional Intergovernmental Organization encourages cooperation, within the framework of the International Convention on Plant Protection Convention (IPPC), in particular its article IX establishing regional organizations in the protection of plants. It is a platform for member countries to develop and implement a regional strategy and standards for the protection of plants.

March, 23th 2012

منظمة وقاية النباتات في للشرق الأدنى (NEPPO)، وهي منظمة حكومية دولية إقليمية تشجع التعاون، في إطار الاتفاقية الدولية لحماية النباتات (IPPC)، ولا سيما المادة التاسعة منها التي تنص على إنشاء منظمات إقليمية في مجال حماية النباتات. وهي بمثابة منصة للدول الأعضاء لتطوير وتنفيذ استراتيجية ومعايير إقليمية لحماية النباتات.

تاريخ الإنشاء: 23 مارس (آذار) 2012

Member countries البلدان الأعضاء



دول في طور الانضمام

1. موريتانيا: طلب الانضمام منذ أوت 2022.
2. اليمن: بدأ الاتصالات منذ شهر سبتمبر 2023 لعملية الانضمام.
3. قطر: بدأ الاتصالات منذ شهر جوان 2024 لعملية الانضمام.

4. لبنان: فيفري 2025

5. فلسطين: 2025

الهيكل التنظيمي Structure of NEPPO

President

Mr. Abdallah Mohamed Al KHURIFI
(Kingdom of Saudi Arabia)

Vice President

Mr. Dris BARIK (Kingdom of Morocco).

Governing Council

Consists of all Member States, acts as the supreme body of the Organization. Meet once every two years

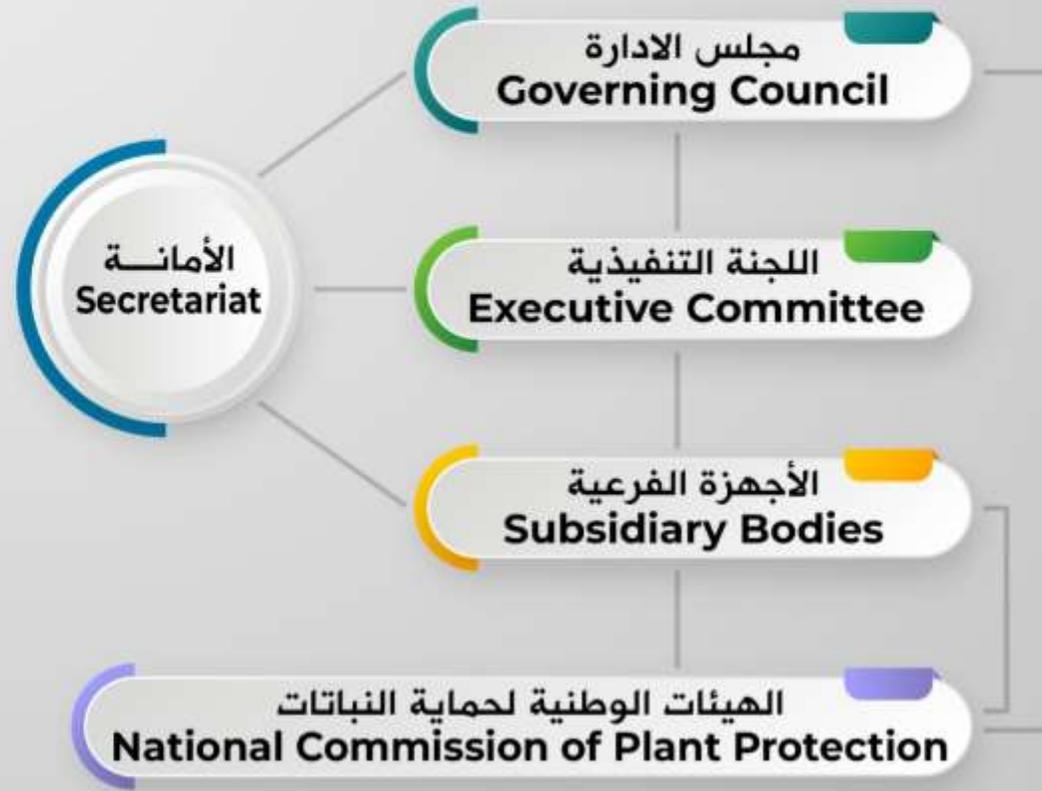
Executive Committee

Six countries elected in principle rotation. Meets at least once a year.

- ▶ Egypt ▶ Oman
- ▶ Iraq ▶ KSA
- ▶ Morocco ▶ Soudan

Executive Director

Mr. Mohamed Habib BEN JAMAA



رئيس مجلس الإدارة
السيد عبد الله محمد الخريجي
(المملكة العربية السعودية)

مساعد رئيس مجلس الإدارة
السيد ادريس باريك (المملكة المغربية)

مجلس الإدارة
يتألف من جميع الدول الأعضاء ويكون هو أعلى هيئة في المنظمة.

اللجنة التنفيذية
تتكون من الرئيس ومن 6 دول يتم انتخابها من طرف مجلس الإدارة. تجتمع اللجنة التنفيذية على الأقل مرة كل سنة.

◀ مصر ▶ عمان
◀ العراق ▶ السعودية
◀ المغرب ▶ السودان

المدير التنفيذي
السيد محمد الحبيب بن جامع

Encourage international & regional cooperation to support plant protection and enhance capabilities



- » The Near East and North Africa Plant Protection Organization (NEPPO) is an intergovernmental organization responsible for international cooperation in plant protection in the Near East and North Africa region,
- » The NEPPO is a platform for **member countries** to develop and implement a **regional strategy** and **standards of plant protection**.

» Pest control



» Prevent the entry & spread of pests



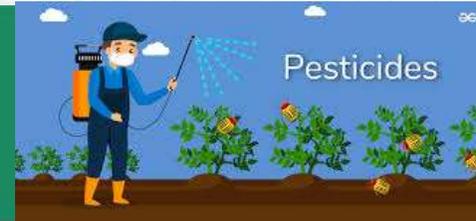
» Facilitate & encourage regional & international trade exchange



Working Groups of NEPPO

01

Management of Pesticides and their alternatives



02

Management of Quarantine and Transboundary Pest



03

Standards development



Raising awareness and coordinating capabilities are key success of NEPPO. In this context these working groups are preparing:

- the work program for the years 2025-2026
- the initial and strategic activities for the period 2025-2035 of the organization.

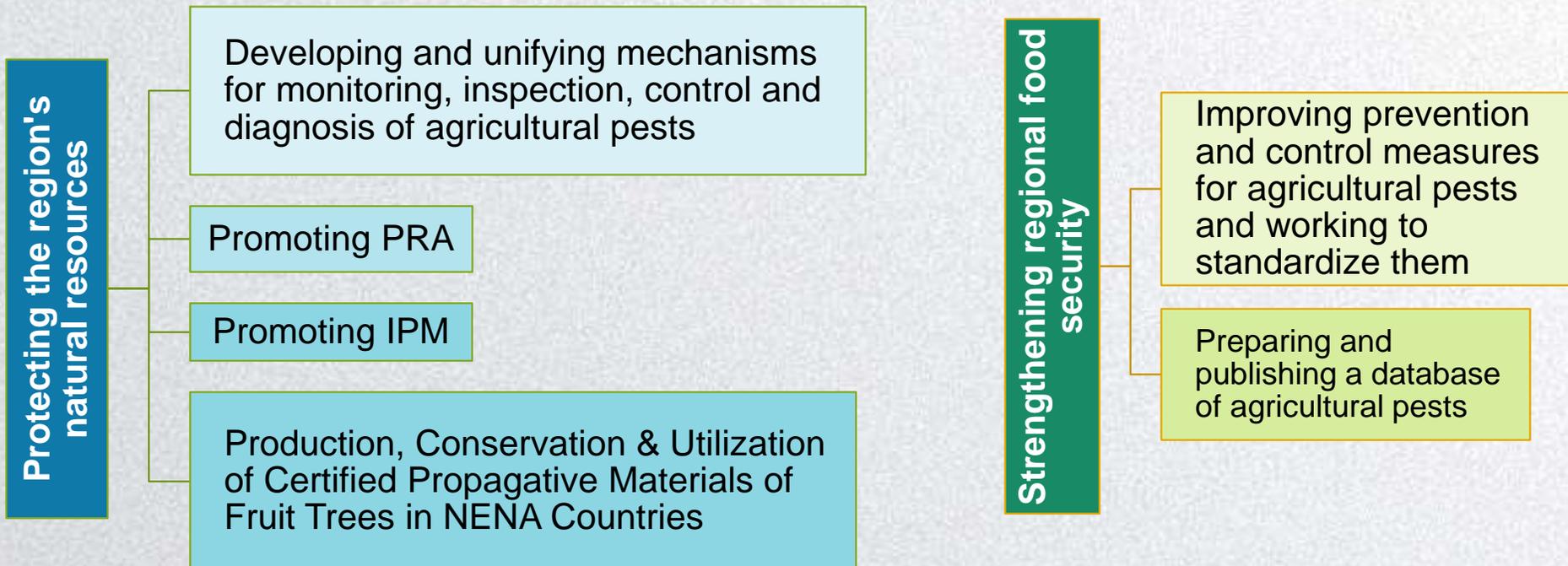
Strategic Plan of NEPPO 2025-2035

Protecting human and animal health and the environment

Protecting the region's natural resources

Capacity Development of the Region in Phytosanitary Measures

Strengthening regional food security



The approaches of NEPPO for the emerging pests in the NENA Region

The introduction and spread of pests, including the expansion in cross-border pest invasions, has become an increasingly concerning threat to the Near East and North Africa (NENA) Region.

This situation is particularly alarming due to the intensification of international trade in agricultural and ornamental plants as well as plant products.

Furthermore, climate change is altering the distribution, incidence and intensity of pests, and can allow the development of new ecological niches which allow the establishment and spread of pests into new geographical areas and from one region to another.



In response to this growing threat, a timely, coordinated, and harmonized approaches among countries in the NENA region is crucial.

The approaches of NEPPPO for the emerging pests in the NENA Region

The European Union (EU) is the largest trading partner in the NENA region, mainly the trade in plant-based products.

Furthermore, the EU and NENA region exhibit a similarity in cropping systems and plant health systems to monitor emerging pests.

- Most countries of the NENA have strong economic ties with EU,
- since this latter absorbs 70% of total agricultural exports from the NENA countries,
- and export to these countries about 30% of its total agricultural products.



- ❖ One priority of NEPPO is to improve capacity building of member countries to minimize the negative economic impacts of insect pests and enhance the resilience of food systems.
- ❖ NEPPO is working together with **NPPOs** :
 - ✓ to be more involved in plant health activities,
 - ✓ to strength collaboration,
 - ✓ to draw their attention to certain pests presenting a direct risk to their agriculture and indirectly to their economy.
- ❖ Collaboration between NEPPO and NPPOs on Pest Risk Analysis, contingency planning and Standards, provide countries of the NENA region with advanced tools to prevent, detect, and manage significant plant pests.



أهم الآفات في منطقة الشرق الأدنى وشمال أفريقيا

أفريقيا

Cochineal of Cactus
القرمزية الصبار



Xylella fastidiosa
مرض التدهور السريع للزياتين



Tephritidae
ذباب الفاكهة



Fall Army Worm
دودة الحشد الخريفية



Red Palm Weevil
سوسة النخيل الحمراء

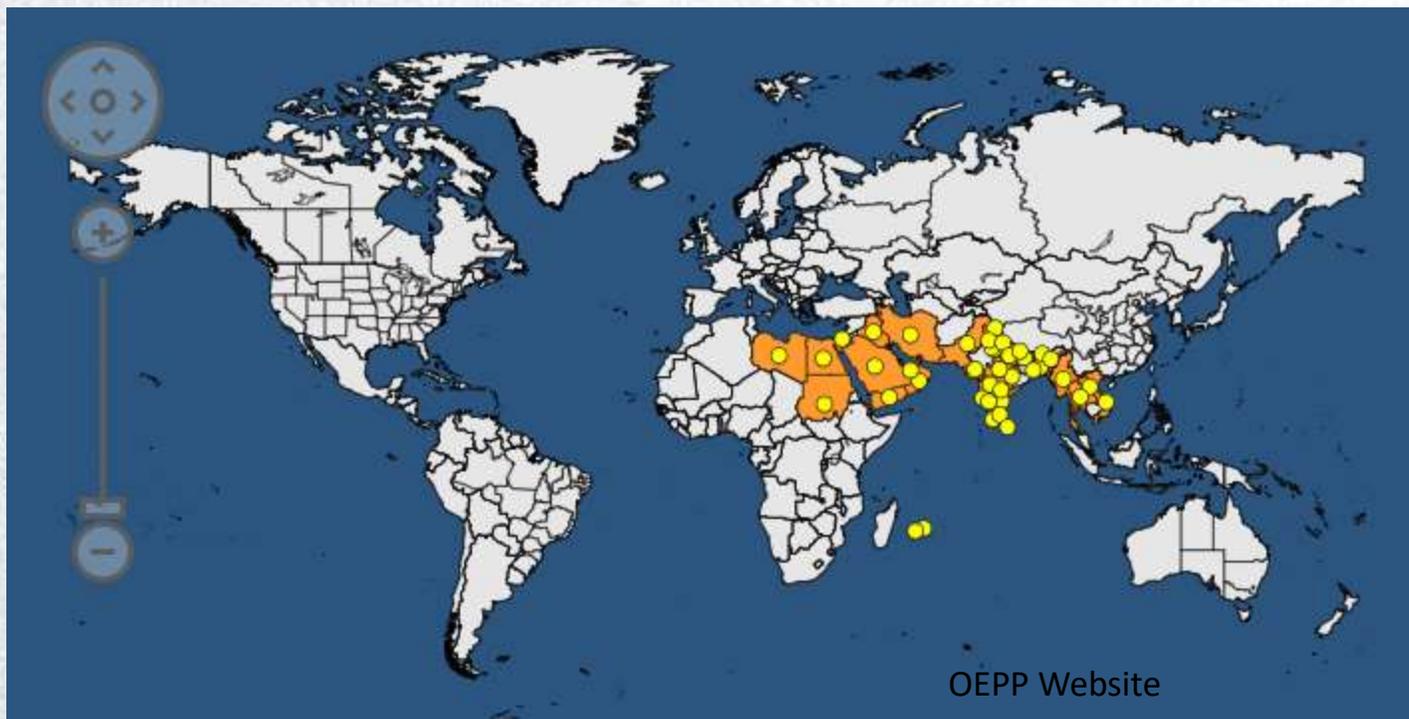


Bactrocera zonata (Diptera: Tephritidae)

Reports from North Africa (Egypt, Libya)



OEPP Website



- ✓ Originates in South and South-East Asia
- ✓ It attacks more than 50 fruit species including guavas, mangoes, peach, apricots, figs and citrus

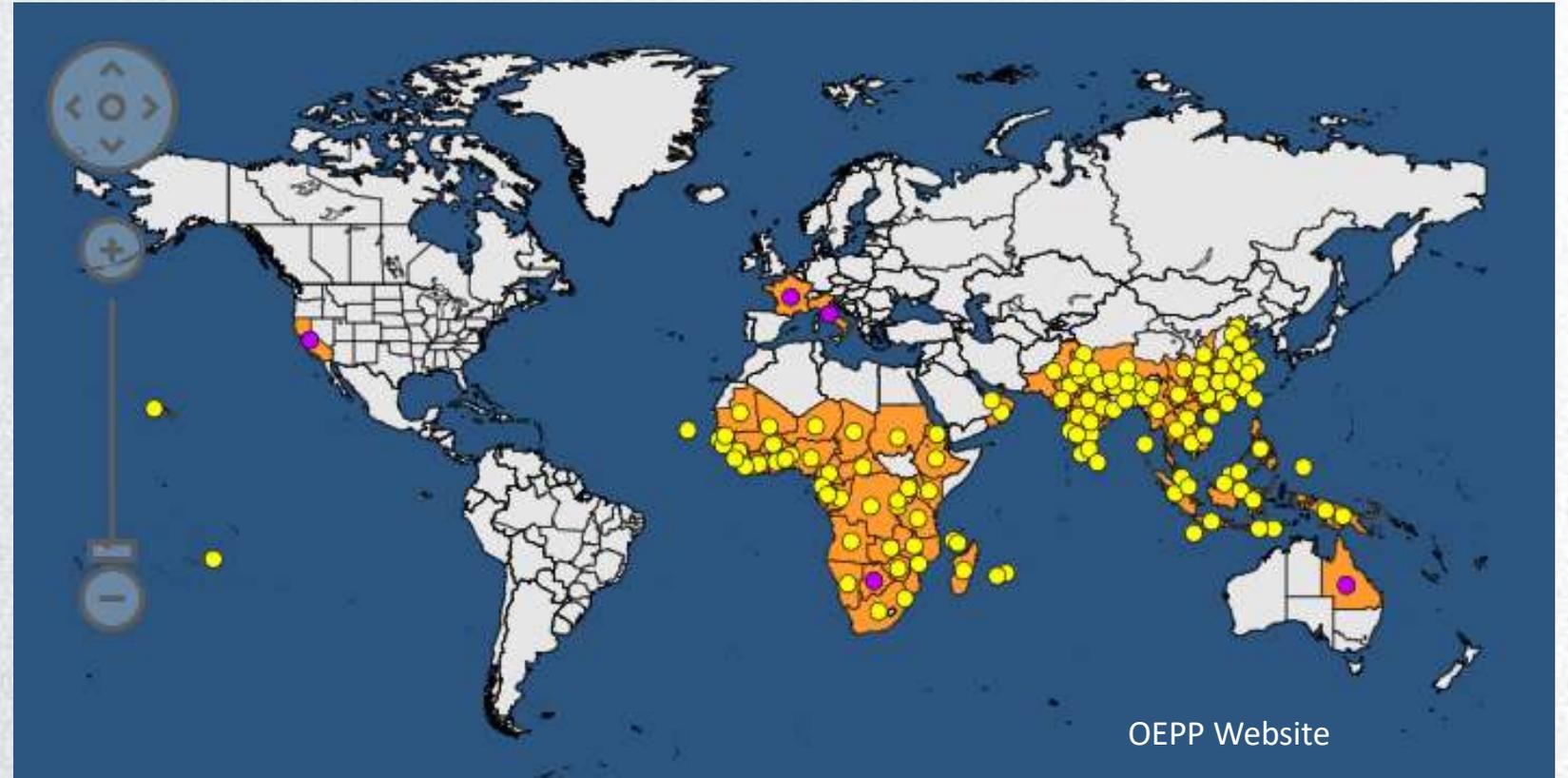
Bactrocera dorsalis (Diptera: Tephritidae)

No reports from North Africa

No reports from NENA
except Oman & AUE



OEPP Website



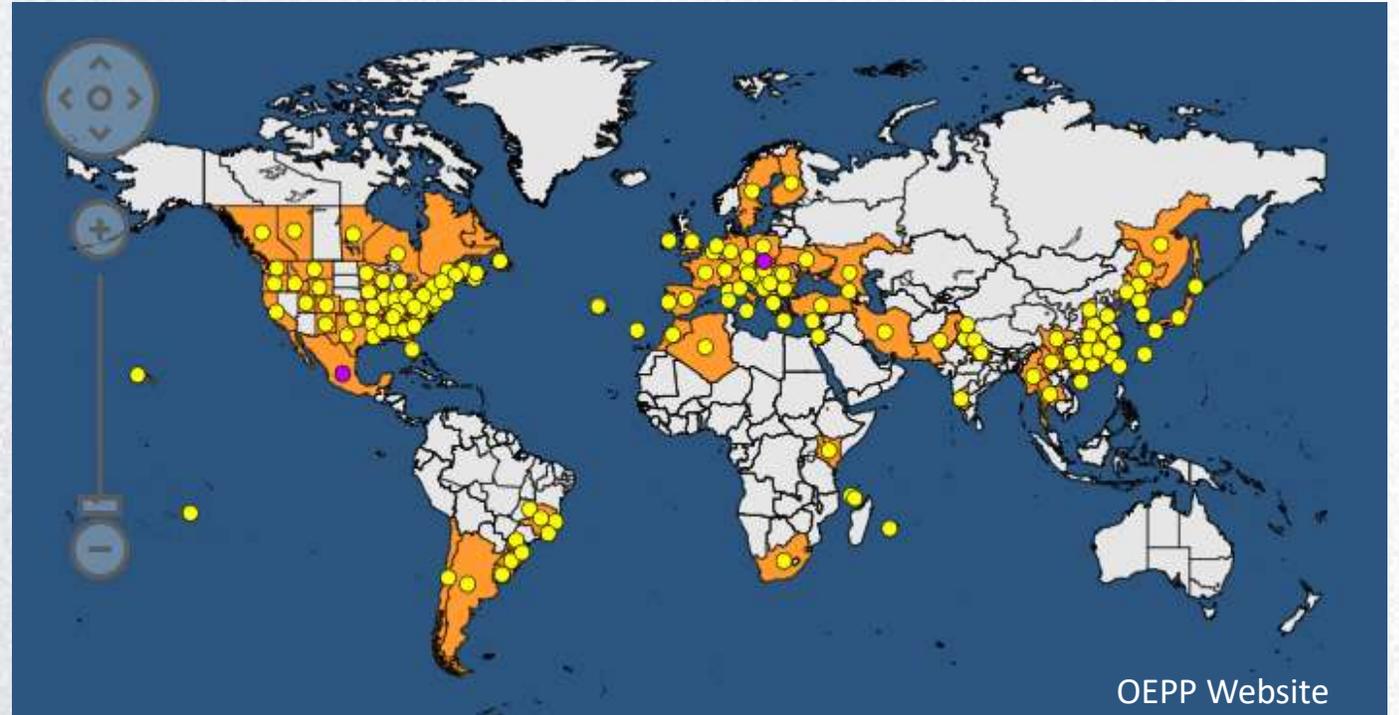
The oriental fruit fly attacks over 300 cultivated and wild fruits including Annona (cherimoya, atemoya, sugar apple), avocado, banana, bittermelon, citrus,

Drosophila suzukii (Diptera: Tephritidae)

Reports from North Africa
(Morocco, Algeria)



OEPP Website

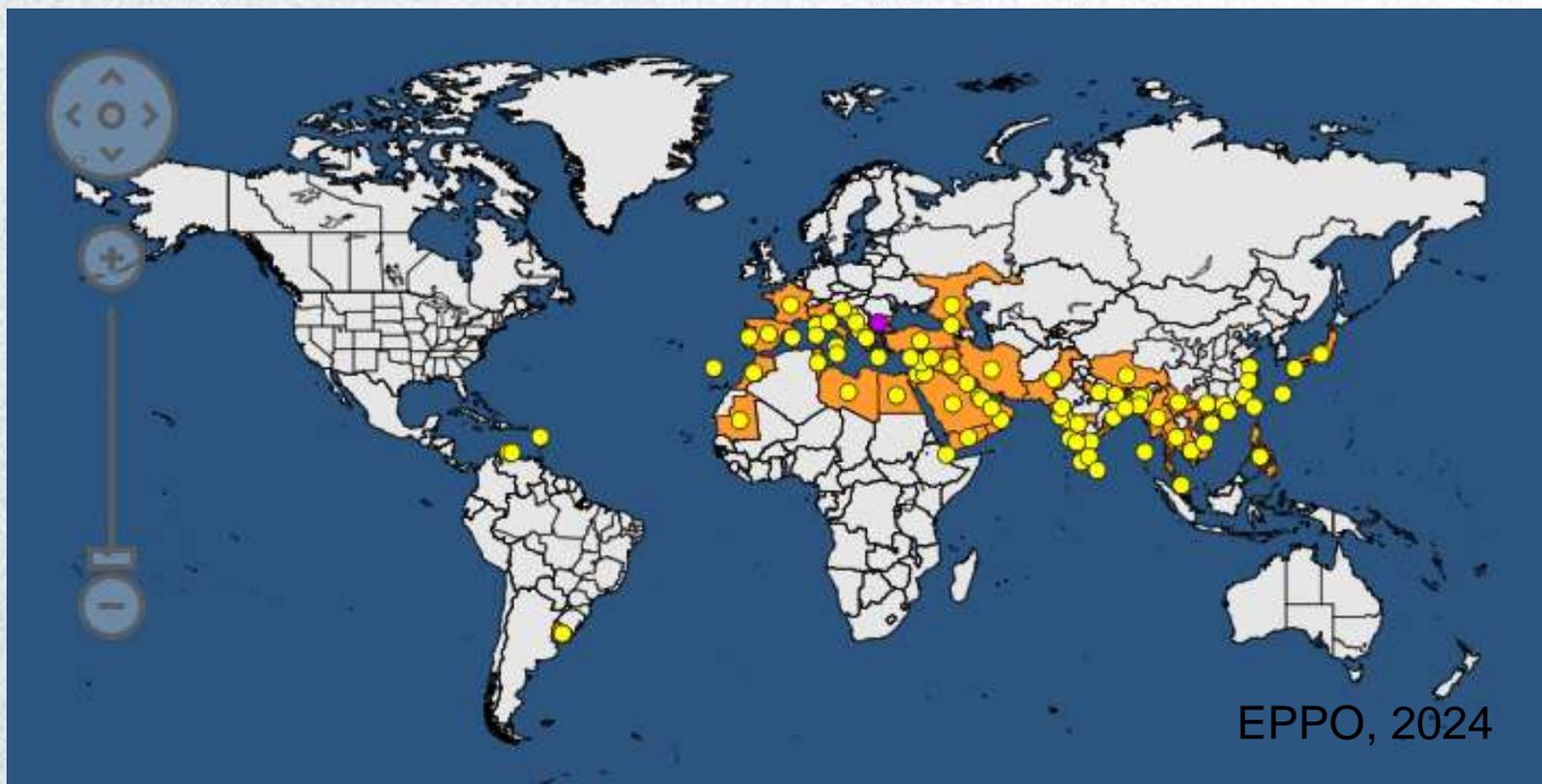


Spotted wing drosophila has a wide host range, and is known as a serious pest of soft fruit and berries

Red Palm Weevil *Rhynchophorus ferrugineus*



Reported from North Africa (Morocco, Tunisia, Libya, Egypt), Mauritania, is now free, Except Algeria





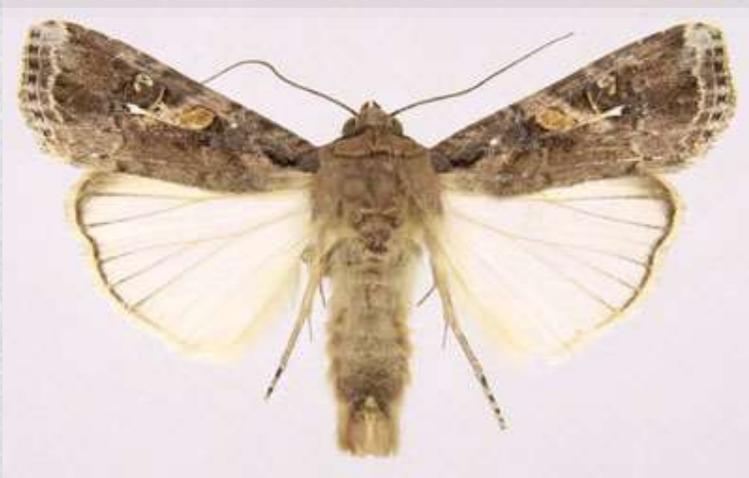
Guidelines

- ❖ Regulations and guidelines for the movement of infested palms within the country and between countries.
- ❖ Implementation of phytosanitary (quarantine) measures for the movement of planting materials.

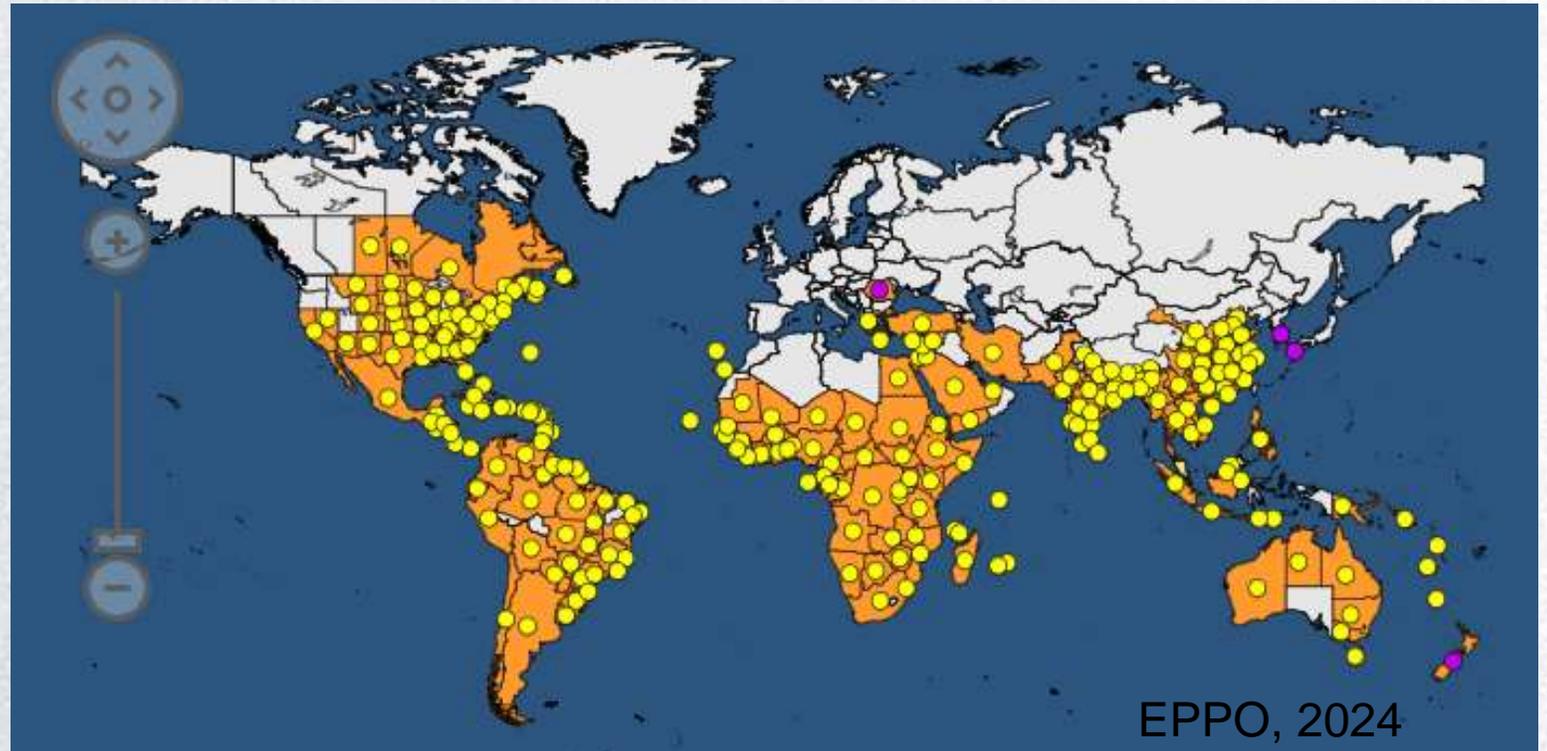
1. Guidelines for Phytosanitary Measures to Prevent the Spread of Red Palm Weevil (*Rhynchophorus ferrugineus*)
2. Certification Scheme for Propagating Materials of Date Palm (*Phoenix dactylifera* L.)
3. Cost-effective treatments of offshoots and ornamentals of date palm seedlings and ornamental
4. Pest Free Area Protocol of the Red Palm Weevil



Fall Army Worm *Spodoptera frugiperda*



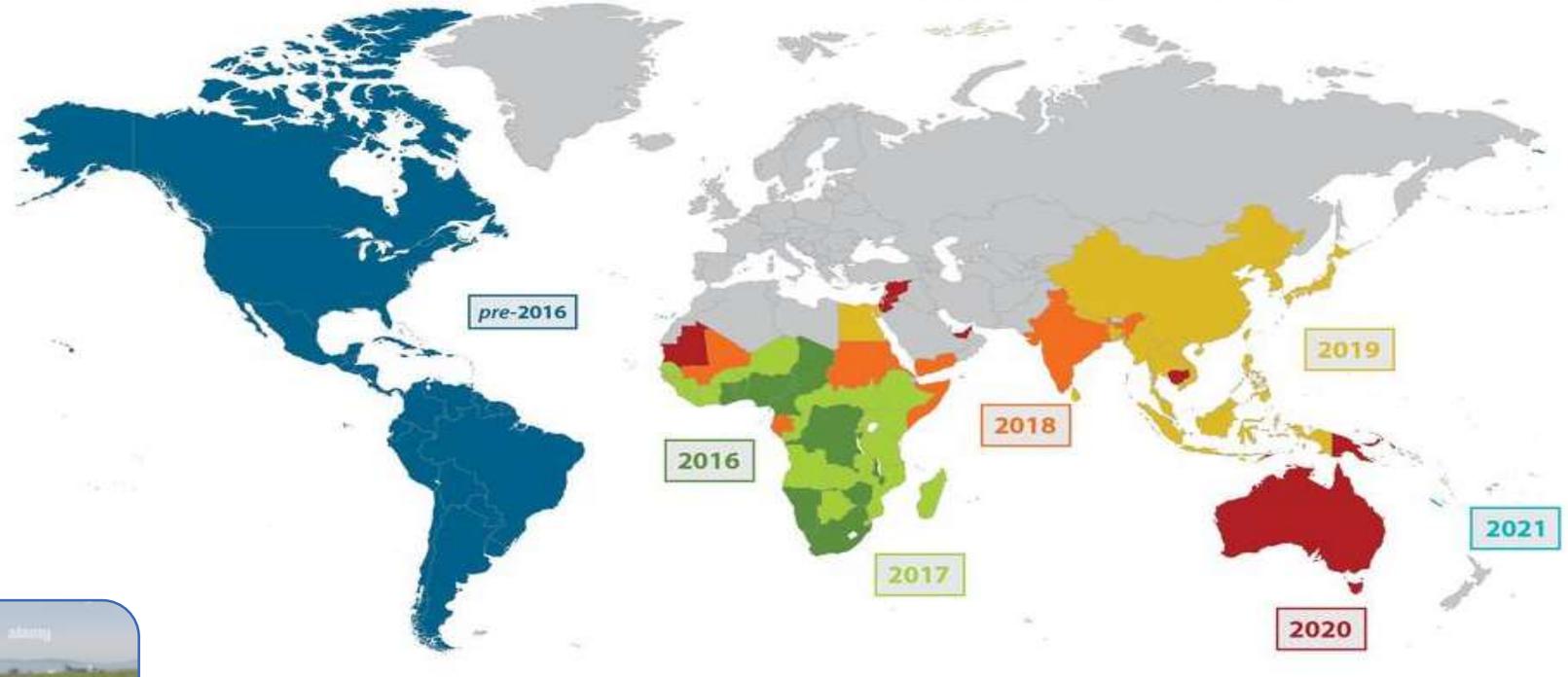
Reports from North Africa (Egypt, Mauritania)



Preparedness and preventive control actions in Algeria, Libya, Morocco and Tunisia.

Interventions and awareness raising, surveillance and control actions for Mauritania, and Egypt

Application mobile FAMEWS
développée par FAO IT-Services



- Preventing FAW Introduction & Spread
- Improving the Phytosanitary Measures
- Early Warning System & Monitoring

Trichogramma and Telenomus are the most active biological control agents



Zambian isolates of *Metarhizium rileyi* and baculovirus to control FAW.



Malick Ba



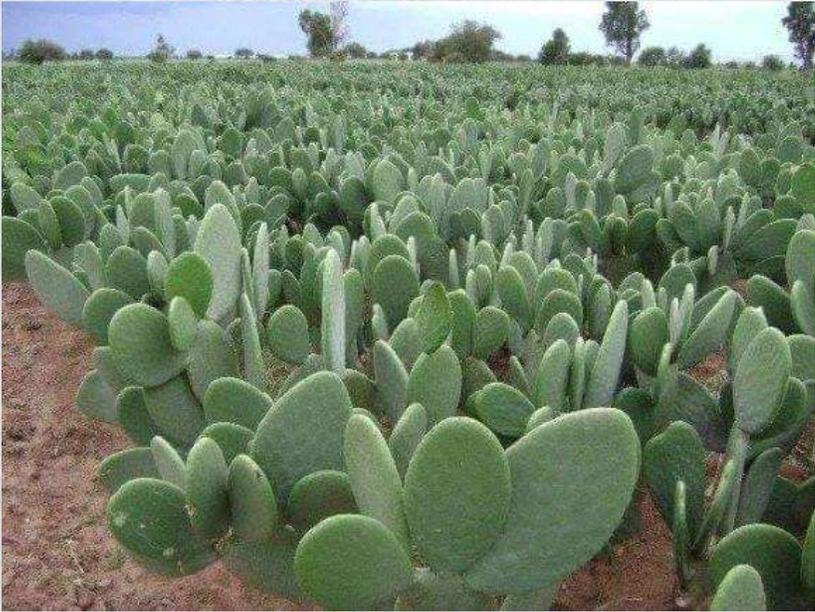
Telenomus sp.
Parasitoïde des œufs d'*Orgyia trigotephras* (Lep, Erebidæ)

Telenomus sp. utilisé contre
Spodoptera frugiperda

Cochineal of Cactus *Dactylopius opuntiae*

Distribution in NENA Region:.

- ✓ Palestine, Jordan, Lebanon, Pakistan.
- ✓ Reports from Morocco and Tunisia.





Dactylopius opuntiae

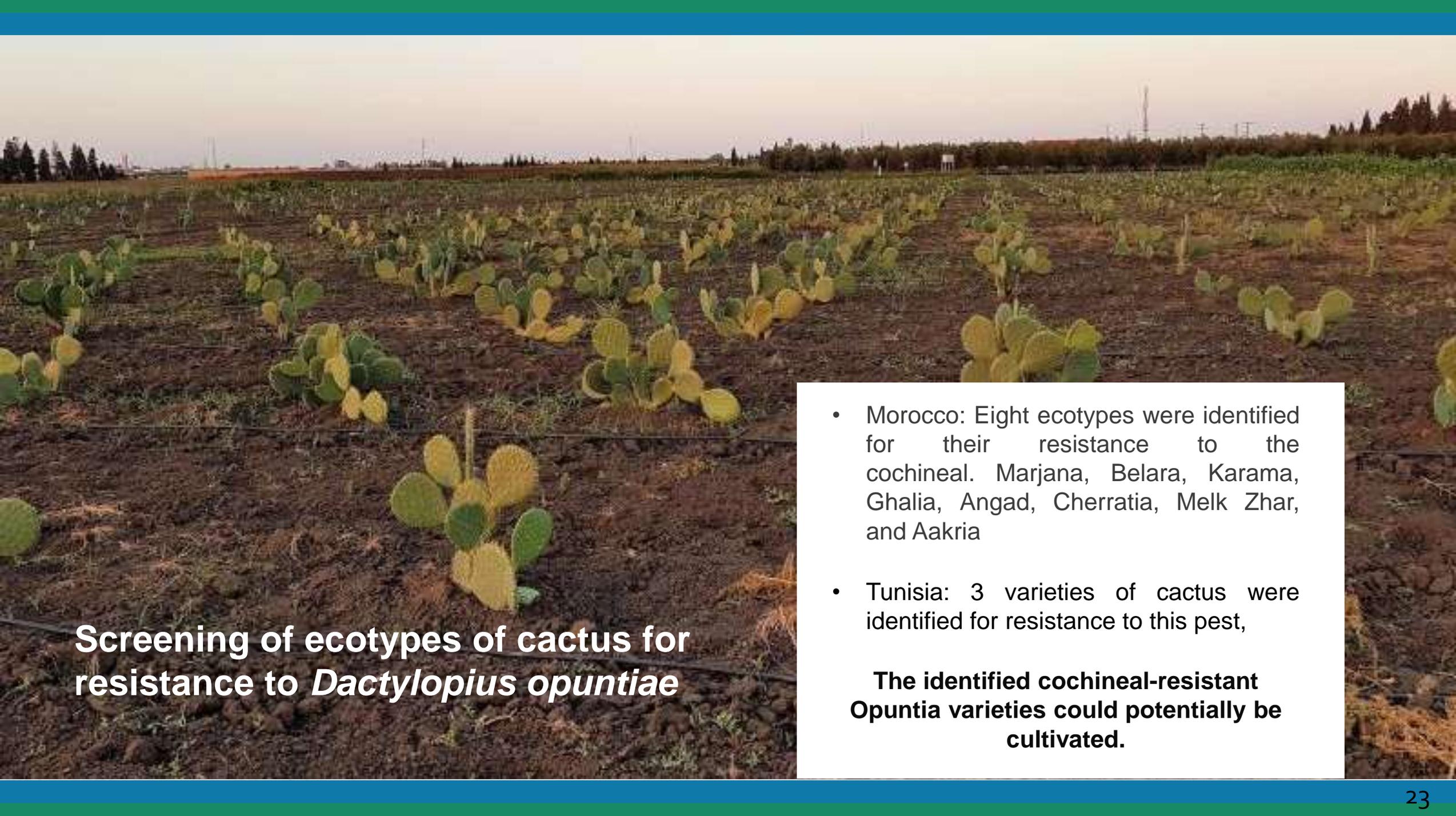
Biological control of *Dactylopius opuntiae*



*Cryptolaemus
montrouzieri*: imported
to Tunisia from Syria



Hyperaspis trifucata:
imported to Tunisia from
Morocco



Screening of ecotypes of cactus for resistance to *Dactylopius opuntiae*

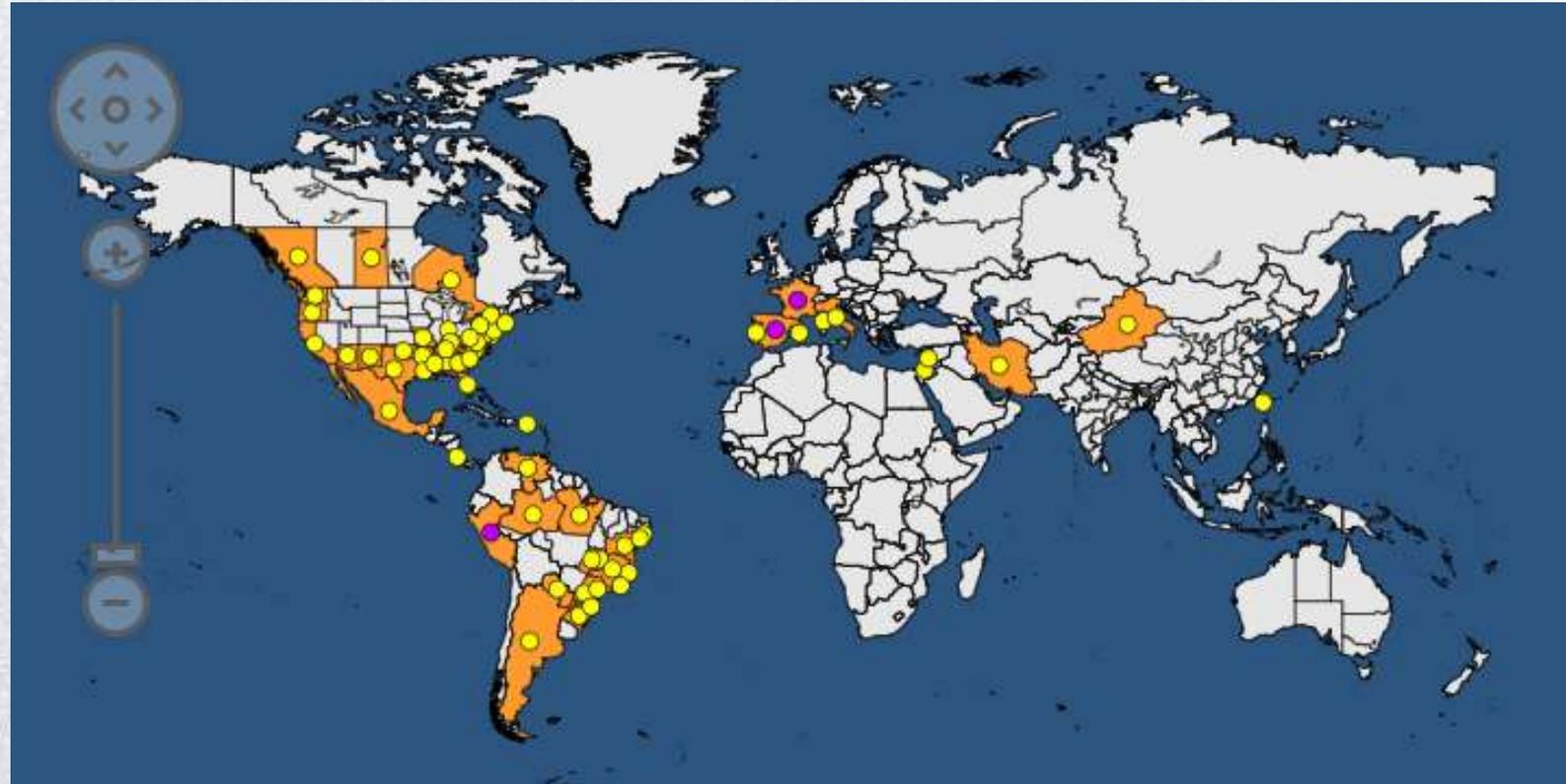
- Morocco: Eight ecotypes were identified for their resistance to the cochineal. Marjana, Belara, Karama, Ghalia, Angad, Cherratia, Melk Zhar, and Aakria
- Tunisia: 3 varieties of cactus were identified for resistance to this pest,

The identified cochineal-resistant *Opuntia* varieties could potentially be cultivated.

Xylella fastidiosa



No reports from North Africa



Contingency plan *Xylella fastidiosa*



NEPPO / EPPO

Contingency plans workshop as a very practical simulation exercise

Tunisia from 26 - 28 May 2025

Contingency plans aim to ensure a rapid and effective response to a pest outbreak. It is likely that some plant health professionals have never had the opportunity to test a contingency plan in a contingency/simulation exercise.

The purposes of the workshop will be to:

- Simulate the experience of a plant health emergency,
- Experiment with responses to an emergency,
- Test whether relevant contingency plans are available and adequate,
- Test availability and relevance of other resources, e.g. EPPO guidance,
- Provide experience in communicating key messages during an emergency,
- Learn why and how to develop contingency plans,
- Learn how to carry out an emergency response exercise.

The Organizing Committee includes:

- » NEPPO
- » EPPO
- » FAORNE
- » FAOSRNE

Local Organizer : NPPO Tunisia

Thank you

شكرا

**Bâtiment C de l'INRA,
Angle Avenues Ibn Al Ouazzan et Hassan II, Rabat**

Phone: +212 (0)6 73 99 78 08
+212 (0)5 37 70 48 10
Fax: +212 (0)5 37 70 87 63
Email: benjamaamh@neppo.org

Web Site: www.neppo.org

