

Threats in Plant Health from globalization

Tóthné Lippai Edit National Food Chain Safety Office 5 November, 2014. Budapest

What are emerging plant threats?



- Newly identified pest with a significant probability of introduction and/or spread,
- 2. Known pest with new or modified pathway of introduction,
- 3. New host plant of a known pest.

Non-listed pests, non-regulated articles.



Globalisation







Fruit and vegetable production



World

EU HU



million t







- 1. Peach red-necked longhorn beetle
- Pepper weevil
- 3. Zebra chips disease
- +1. Xylella fastidiosa bacterium

Distribution

Possible pathways

Symptoms



1. Aromia bungii – a serious pest of Prunus species



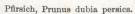


peach red-necked longhorn beetle









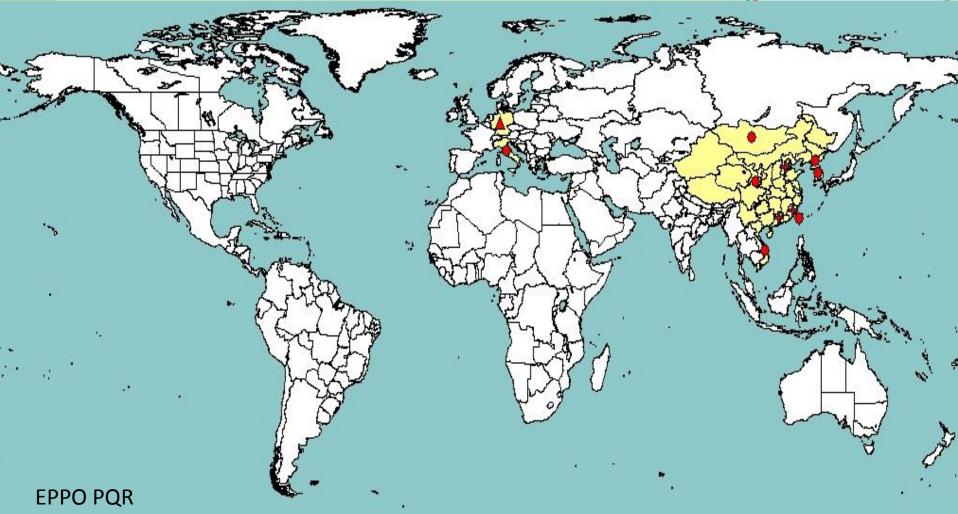






Distribution





Possible pathways



Solid wood packaging from China
– 4 million shipping containers with
WPM to EU, annually





 Plants for planting from Italy – ornamental Prunus!

















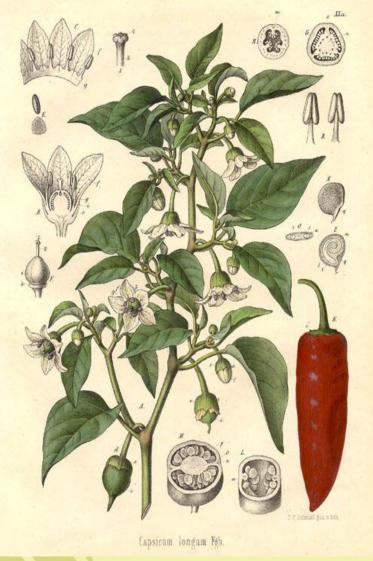
Anthomonas eugenii



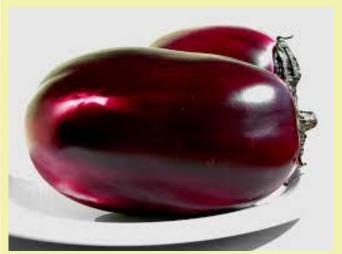




Pepper weevil









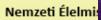












Distribution





Possible pathways



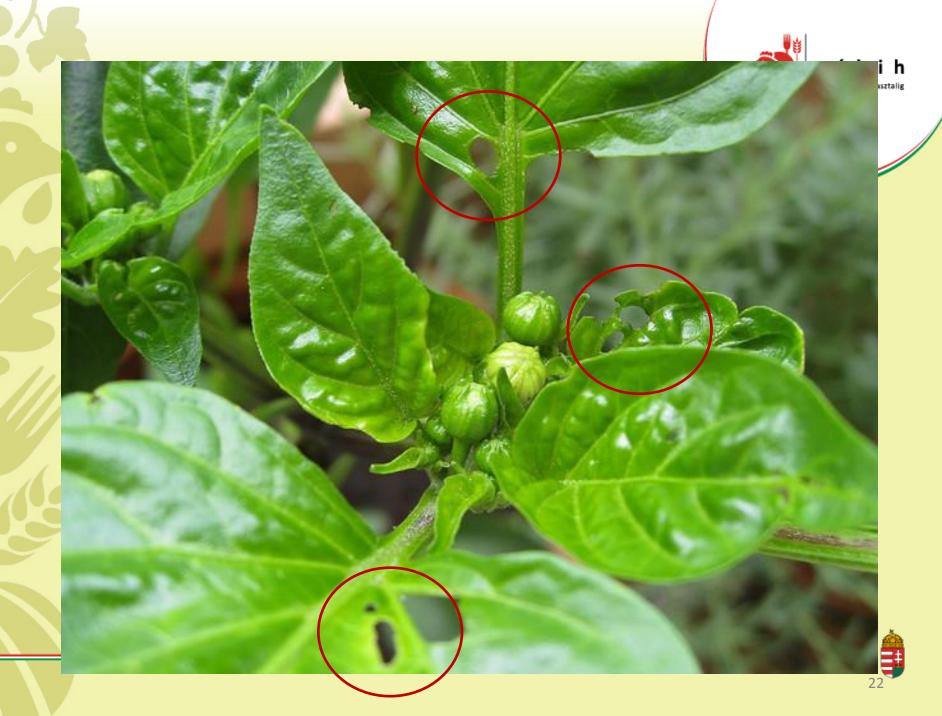
Fresh pepper





Aubergine

















3. Candidatus Liberibacter solanacearum



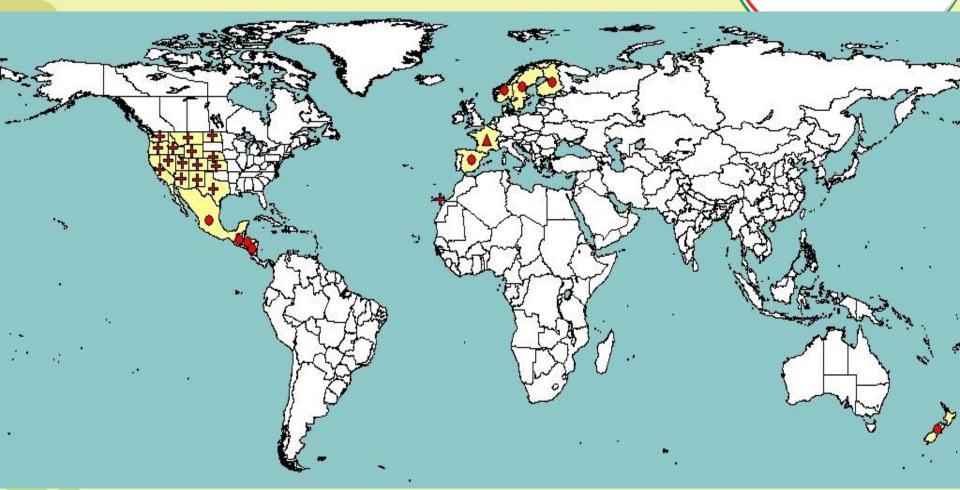






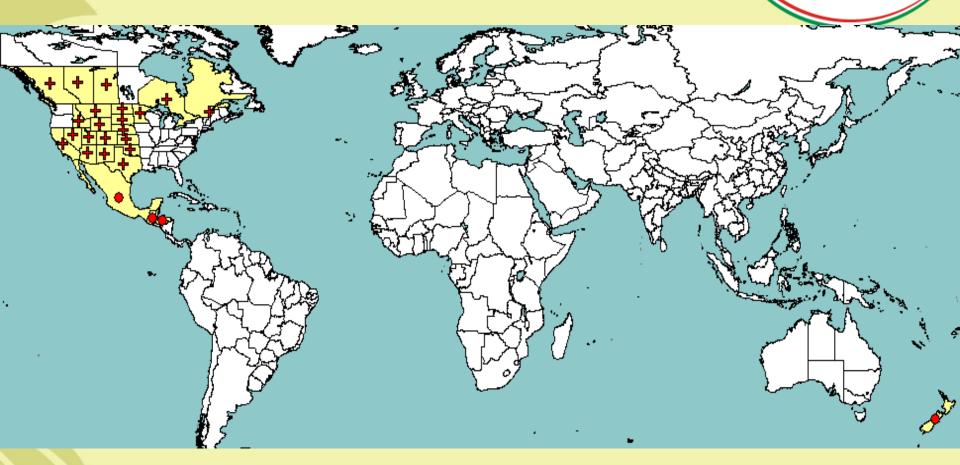
Distribution





EPPO PQR

Distribution of the vector - Potato psyllid



EPPO PQR

Possible pathways



- Species of Solaneceae plants host of the vector (psyllid insect) – wide host range
- Fruit of pepper, tomato, aubergine; potato from EU

Need a vector to transfer - EU vectors?

Vector

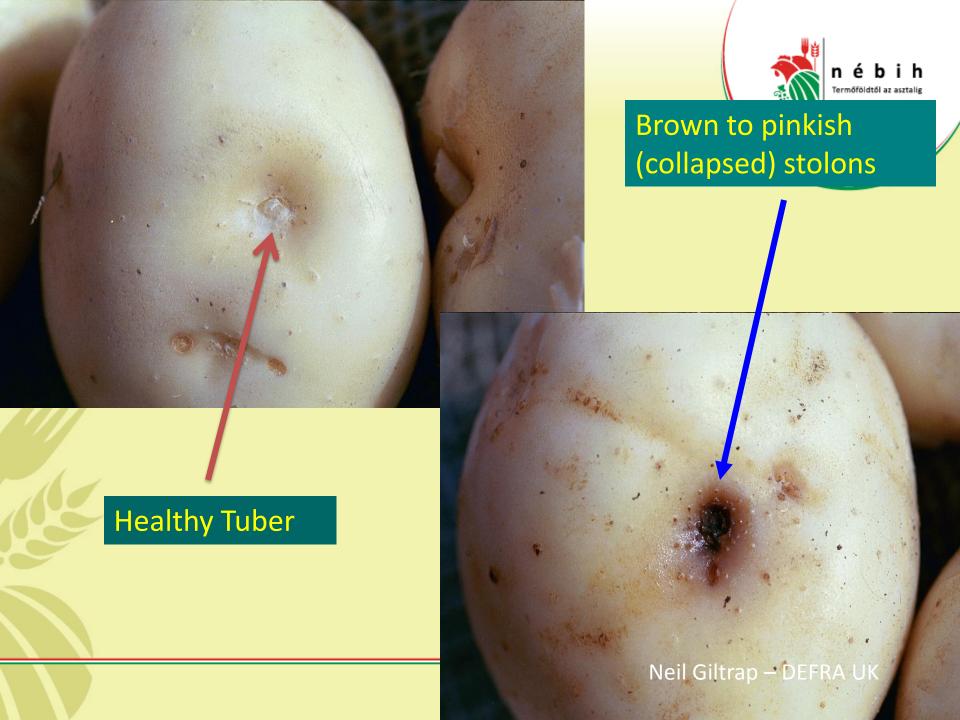


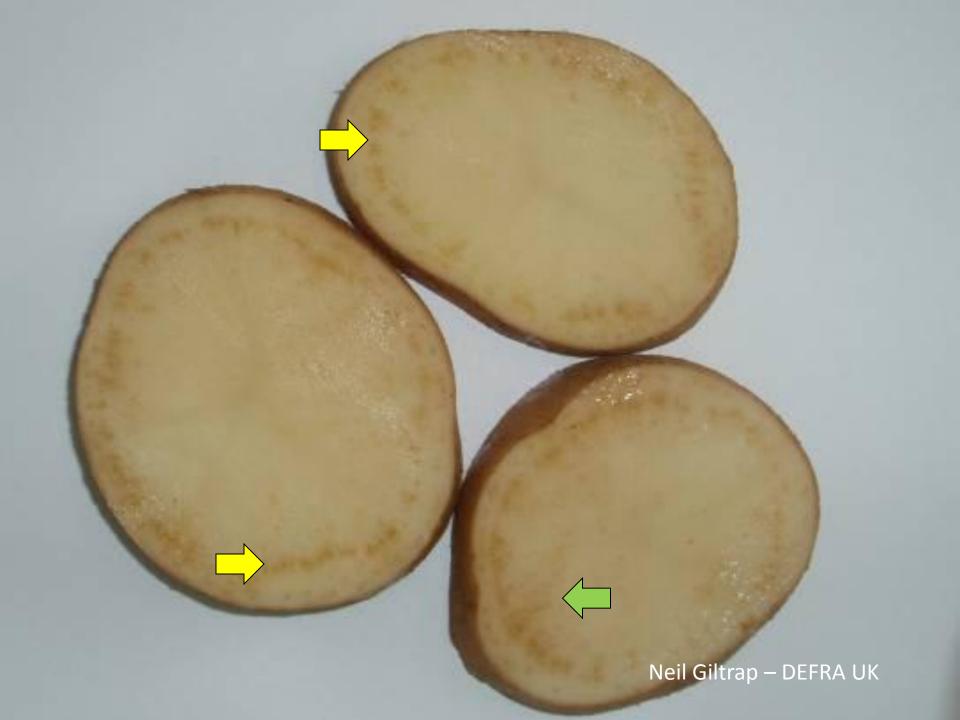


















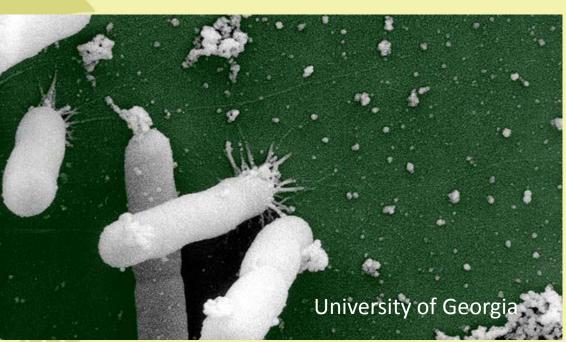






+1. Xylella fastidiosa and its ventorial





2014/497/EU COM implementing decision

Philaenus spumarius - widespread **Meadow froghopper**

Nemzeti Élelmi

Host plants

more than 100 different host plants











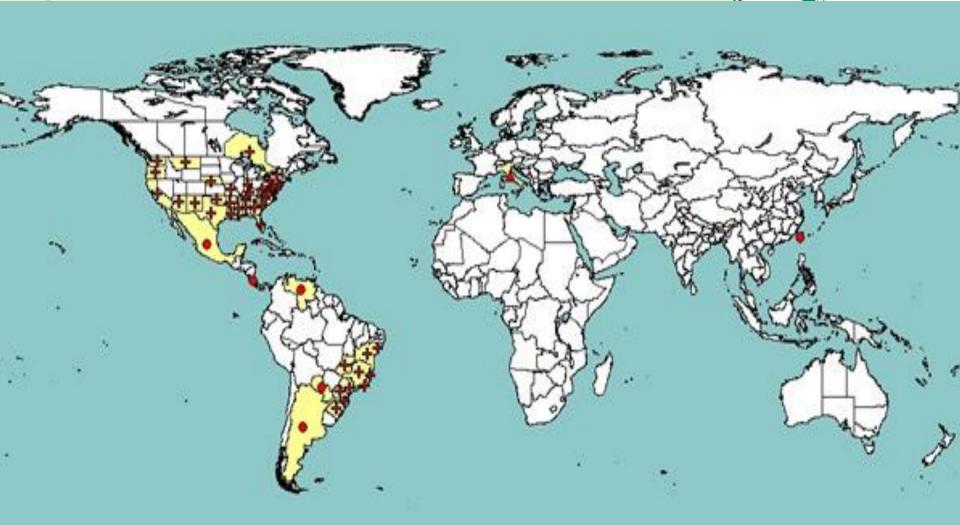






Distribution



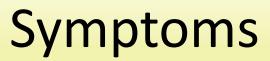


Possible pathways



 Plants for planting of host plant of the bacteria



















Gallipoli











Solution?



Early warning





- Keep ourselves updated with possible plant pest threats!
- EPPO Alert List:

www.eppo.int/QUARANTINE/Alert List/alert list.htm