

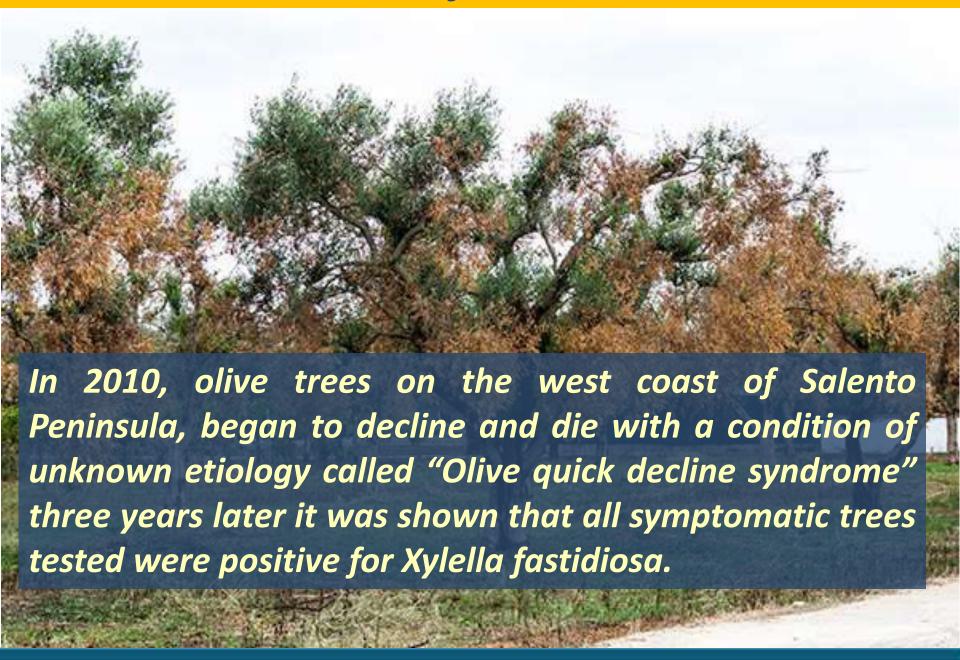
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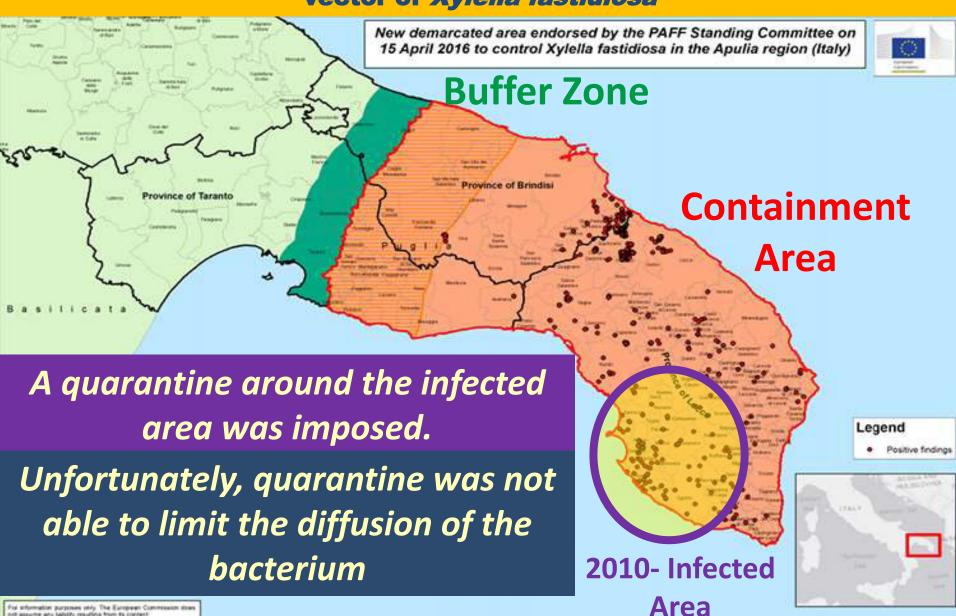
<sup>1</sup> University of FOGGIA – Italy

<sup>2</sup> SACHIM SRL- Italy

<sup>3</sup> University of BARI - Italy

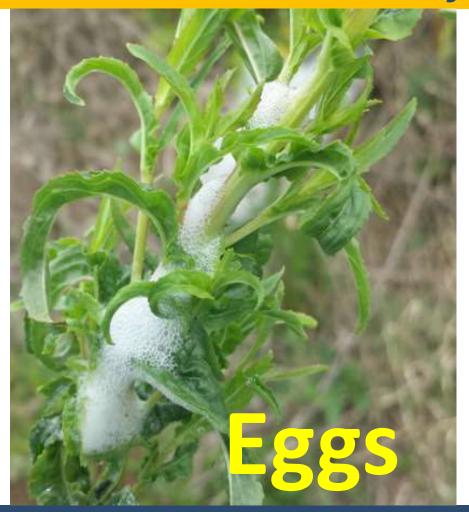
<sup>4</sup> University of SALENTO - Italy

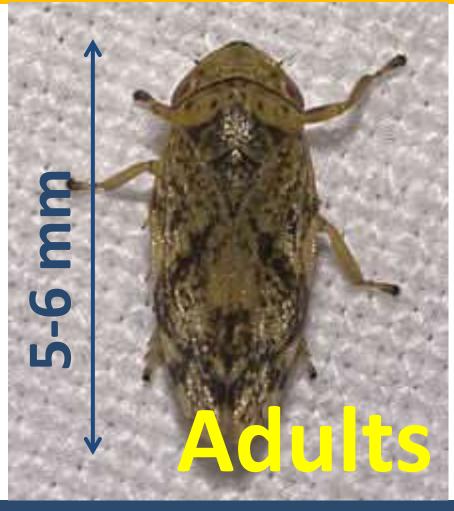




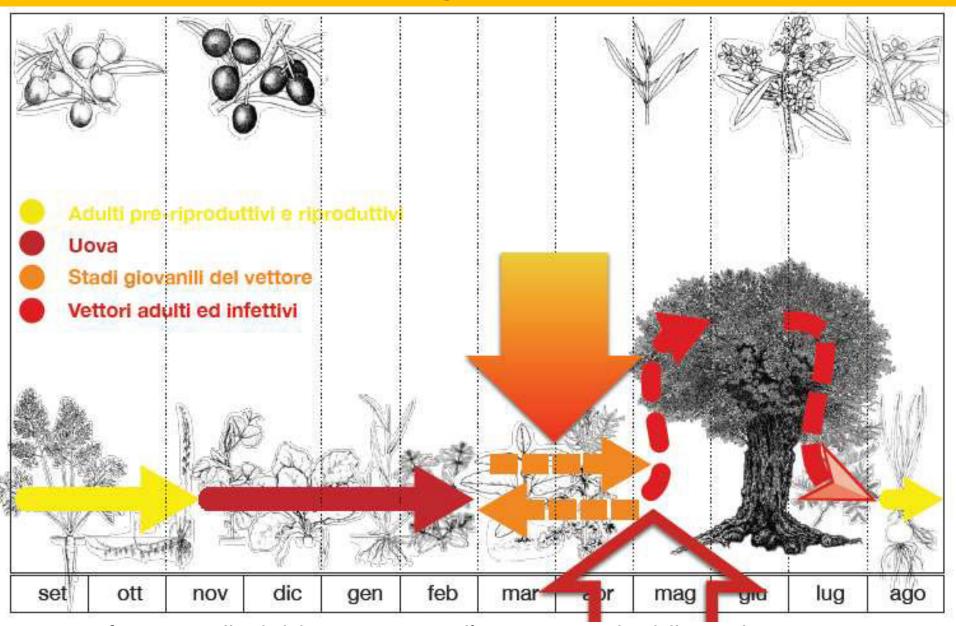
not assume any lately, residing their to content. For comparine information, please right to commission incidenceding Decision. (EU). 2015/789 of 18 May 2015 as regards the official measures to prevent the introduction into and the spread within the Ultimor IX (yithin Assistance (rings in it is ).

2016 - SANTE O



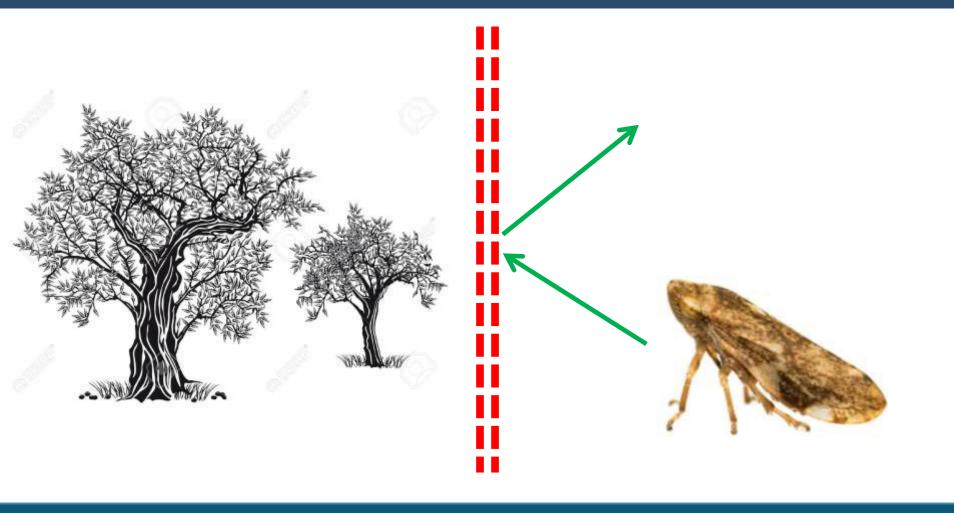


X. fastidiosa is transmitted by the meadow spittlebug, Philaenus spumarius L. from infected to uninfected olive trees

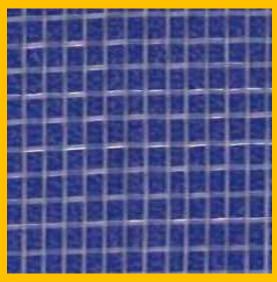


Imagine from F. Porcelli «Il Philaenus spumarius, l'insetto vettore di Xylella Fastidiosa Pauca CoDiRo»

It seems that the only way to preserve plants from the X. fastidiosa is to physically avoid the contact with its vector, the P. spumarius.



Aim of this research was to study a net protection systemfor in field cultivations and nurseries- specifically designed against the Philaenus Spumarius



Flat woven net thermally stabilized



Knitted net made by strips and wires



Knitted net made by wires

For each net three different dimensions of mesh

d1 = 1.2 mm

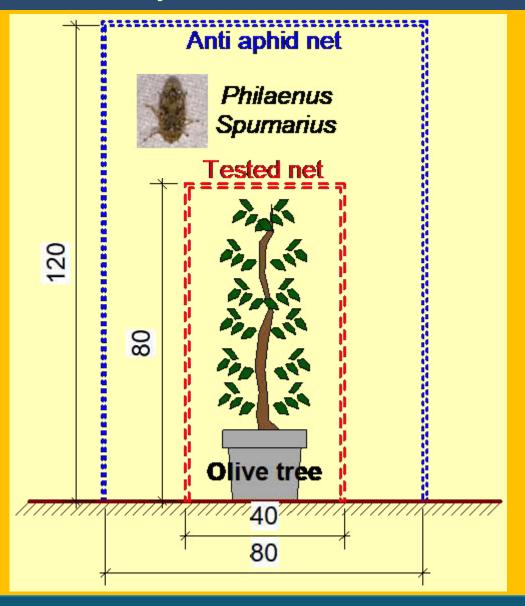
d2 = 1.8 mm

d3 = 2.4 mm

#### Performances required to the netting system

- Avoid the adult forms of P. spumarius passing through the net
- net with a mesh as wider as possible in order to minimize the visual impact of in field installed nets, to reduce the wind loads on the supporting structures and the impact of the net on growth conditions such as temperature and air humidity

#### **Experimental tests**



Measures in cm

#### **Experimental test**





#### **Experimental test- RESULTS**

All (100%) the insects, in absence of water and food, died after few hours (6-24h).

Flat woven nets showed the damage of some thermal connections and the consequent sliding of wires

The best performer was :

HDPE knitted monowire net

Mesh size d3=2.4mm

