

## International Plant Sentinel Network



## Ellie Barham

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EPPO Council Technical Colloquium and Visit on Forestry Riga, 2015-09-17









## Our Aim

The IPSN aims to provide an early warning system to recognise new and emerging pest risks



## The Power of Plant Sentinels

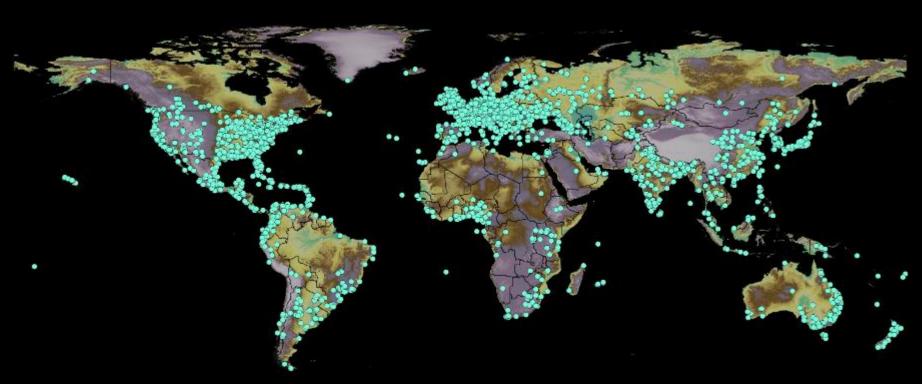
The main aim is to identify 'unknowns'

Other research opportunities to inform Plant Health include:

- Increase understanding
- Identify new pest-host associations
- Identify potential biocontrols
- Aid in integrated management tools



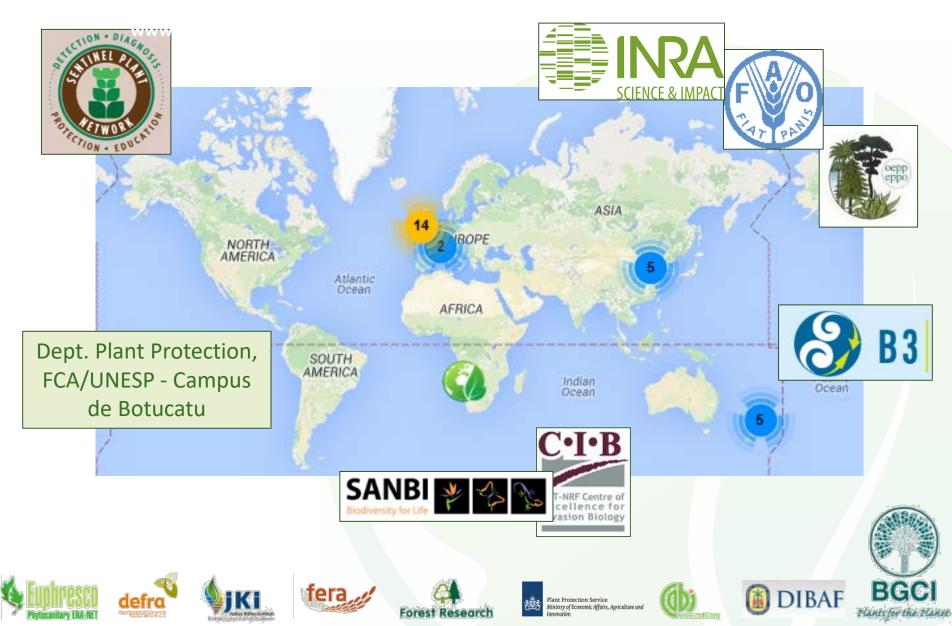




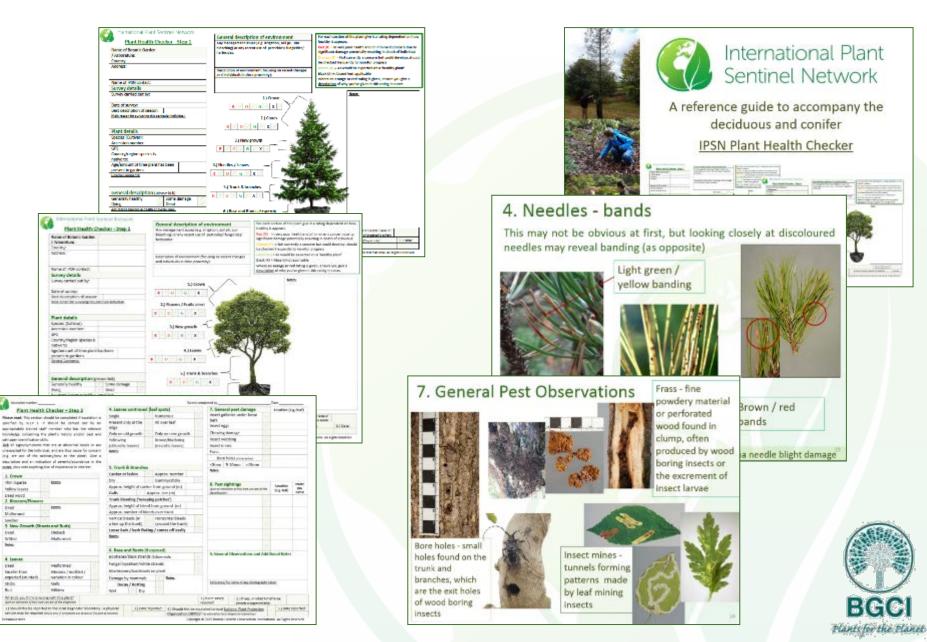
Map of known botanic gardens courtesy of BGCI's GardenSearch database

BGCI - Worldwide botanic garden networking organisation

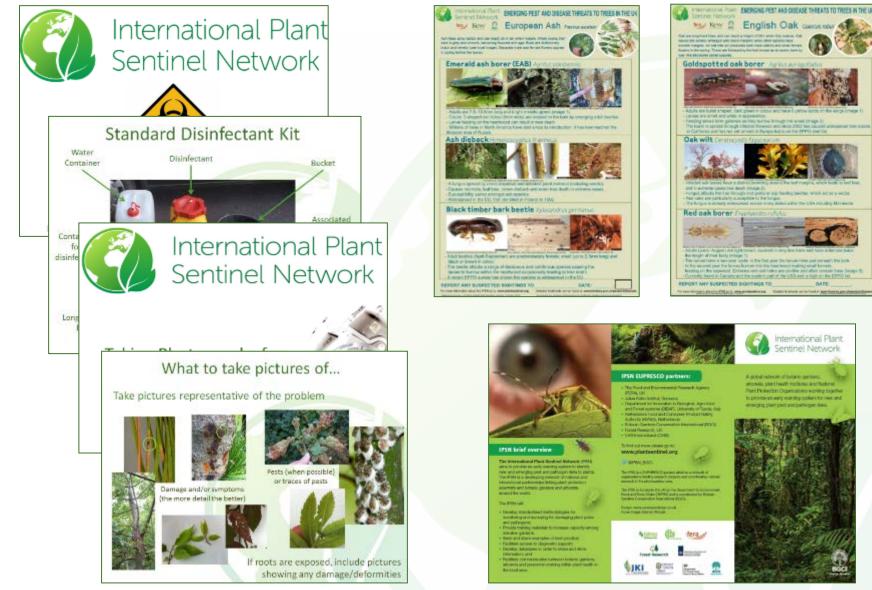
## **IPSN Participation**



## Increasing capacity



## Materials and resources





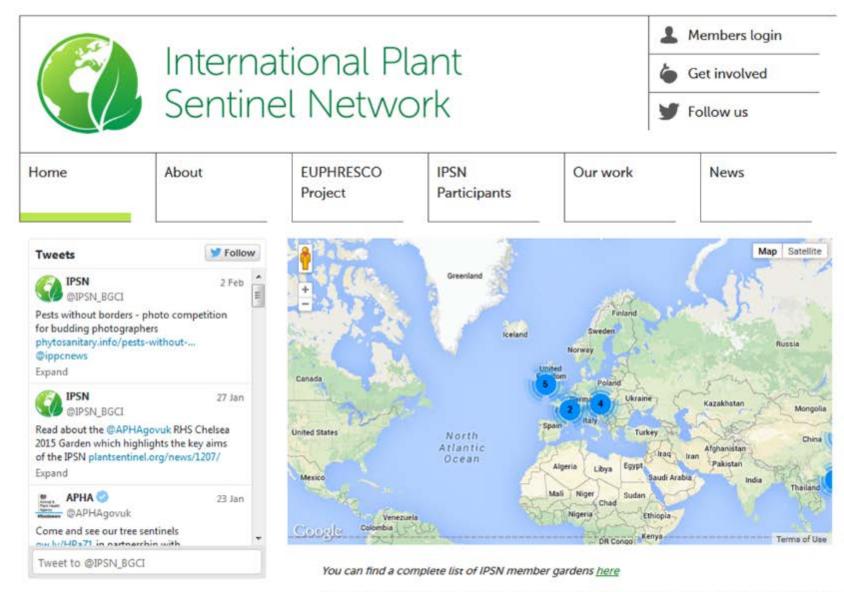


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#### AN EARLY WARNING SYSTEM OF NEW AND

The increasing globalisation of trade in plants and plant material, together with the impacts of climate change, has led to an increase in the introduction and spread of new and damaging plant pests and pathogens. Past examples of the devastating impact these organisms can have on plant populations (prime examples are <u>Dutch elm disease</u> on UK elm trees and the <u>emeraid ash borer</u> on U.S. ash populations) illustrate the significant threat these alien pests and pathogens pose to global

#### www.plantsentinel.org

## Workshops & training



#### Huntington Library, Art Collections and Botanical Gardens, U.S.



Shenzhen Fairy Lake Botanical Garden (CAS), China





Royal Botanic Gardens Kew, UK



## Next steps

- Online reporting form with supporting app
- Increased global participation
  - Including NPPOs
- Continued awareness raising and training for botanic gardens
  - Workshops, webinars etc.
- International sentinel research projects
  - Farm Bill Funding FY 16 Offshore monitoring

# Entress Operationalising the IPSN

- Current funding April 2013-2016
- Looking for additional European partners
  - Provide relevant, useful information for plant health policy
  - International research opportunities
  - Facilitate communication (outreach)



## The Future...

Creating a sustainable and viable network with the support of botanic gardens, NPPOs and diagnostic institutes worldwide







## Observatree/IPSN Conference on Tree and Plant Health Early Warning Systems in Europe

23-24 February 2016, Royal Botanic Gardens Kew, UK

- 2 day conference to discuss early warning systems in Europe
- Free registration
- Registration and abstract submission now open

For more information please go to <a href="http://www.observatree.org.uk/events/">http://www.observatree.org.uk/events/</a>

Thank you for your attention <u>www.plantsentinel.org</u> <u>ellie.barham@bgci.org</u> Follow us on Twitter @IPSN\_BGCI