Euphresco

Presentation for TC26, 2014
With thanks to Baldissera Giovani
Euphresco

Network for phytosanitary research coordination and funding
New arrivals of damaging pests….

• Damaging plant pests have increased steadily over the last century
• Global trade, potentially exacerbated by climate change, is likely to increase the risks from pests

• Madeira Declaration (2004):
  • The NPPO services increasingly lack staff, funds and training
  • The whole scientific basis of the phytosanitary field is quickly eroding
  • Indispensable expertise and scientific disciplines will irreversibly disappear
  • NPPO will be unable to do their duty
...a risk....

- First recordings of non-native arthropod pests in Europe (data from Smith 1997)

- First recordings of non-native plant diseases in Europe (including bacteria, fungi and nematodes) (Smith 1997)
... followed by an opportunity

- Need for improved coordination and collaboration between national phytosanitary research programmes and with EU-funded research

- To ensure effective support for plant health policy and its implementation across Europe
Preparing the ground

• EUPHRESCO I (2006-2010)

• From mapping programmes and identifying players to funding calls for proposals

• Two rounds for a total volume of 2.1 Million €
• 8% of the total national budget for phytosanitary research (2008-2009)

• 17 pilot projects
Some projects funded under EUPHRESCO I

• Strategies for Ambrosia artemisiifolia control
• Development and validation of innovative diagnostic tools for the detection of fire blight (*Erwinia amylovora*)
• Evaluating the risk of spread of *Scaphoideus titanus* with propagation material
• Decision support systems for control of alien invasive macrophytes
• Development of validated procedures for whole genome amplification of DNA/RNA for quarantine plant pathogens and pests
• Ring test on diagnostic methods for *Pantoea stewartii* spp. *stewartii*, maize bacterial blight
• Detection and management of the quarantine nematodes *Meloidogyne chitwoodi* and *Meloidogyne fallax*
Nurturing further growth

- EUPHRESCO II (2011-2014)

- Strengthening the collaboration, improving the tools and enlarging the network

- Three annual rounds for a total volume of 6.8 Million €

- 12% of the total national budget for phytosanitary research over 2011-2014

- 30 projects funded
Some projects funded under EUPHRESCO II

• Use of novel **molecular methods** to understand population diversity and its implications on disease management through the use of resistant potato varieties (Potato Cyst Nematode)
• Development and validation of innovative **diagnostic** tools for detection and identification of Meloidogyne enterolobii in support of integrated plant protection strategies
• **Epidemiological studies** on reservoir hosts and potential vectors of Grapevine flavescence dorée (GFD) and validation of different diagnostic procedures for GFD
• Bursaphelenchus xylophilus methods for early **detection**
• Plant Health **Fellowship**
• **IPM** strategies against Drosophilidae
Bearing fruit for the long term

• Since April 1, 2014

• 29 partner organisations from 22 countries

• *Modus Operandi* agreed

• Coordination hosted within EPPO
Bearing fruit for the long term

- Looking for enlargement within Europe and abroad
- Widening the pool of disciplines
- Developing fast procedures to fund projects to face emergency situations
Looking for enlargement

- Enlarge membership beyond the geographical EU borders
  - Problems do not stop at frontiers
  - Plant pests in a given country are under control in another
  - Exchange of knowledge and good practices

- Implement transnational projects with research organisations outside Europe
  - Any research organisation could participate to Euphresco funded project
  - No financing through Euphresco, but collaboration with EU consortia
  - Yearly call process and funding
New round of funding now started!

• Since November 1, discussion to identify:
  ○ Research topics
  ○ Funders and fund for each topic
  ○ Funding mechanisms

• First official topics agreed by end of summer 2015
  ○ Approximate total budget for the 2015 round: 1.2 M€
  ○ Small-medium size research projects funded
  ○ Transnational projects (minimum 2 research organisations from 2 different countries)

• Yearly round of funding
More information ...

• **Official website:** [www.euphresco.net](http://www.euphresco.net)
  - Historical overview
  - Information on projects funded through Euphresco
  - Information on funding opportunities
  - Newsletter

• **Contact the coordinator:** bgiovani@euphresco.net
Euphresco network, as of November 7, 2014