



2017-2022 Eupresco strategic research agenda

Baldissera GIOVANI
Eupresco co-ordinator



Universitat
de les Illes Balears

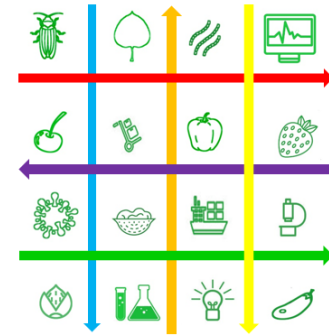


A manifesto on Plant Health research

- Transnational research priorities
- Common research objectives to be addressed in the next 5-10 years
- Support research co-ordination and collaboration

Eupresco Strategic Research Agenda

2017-2022

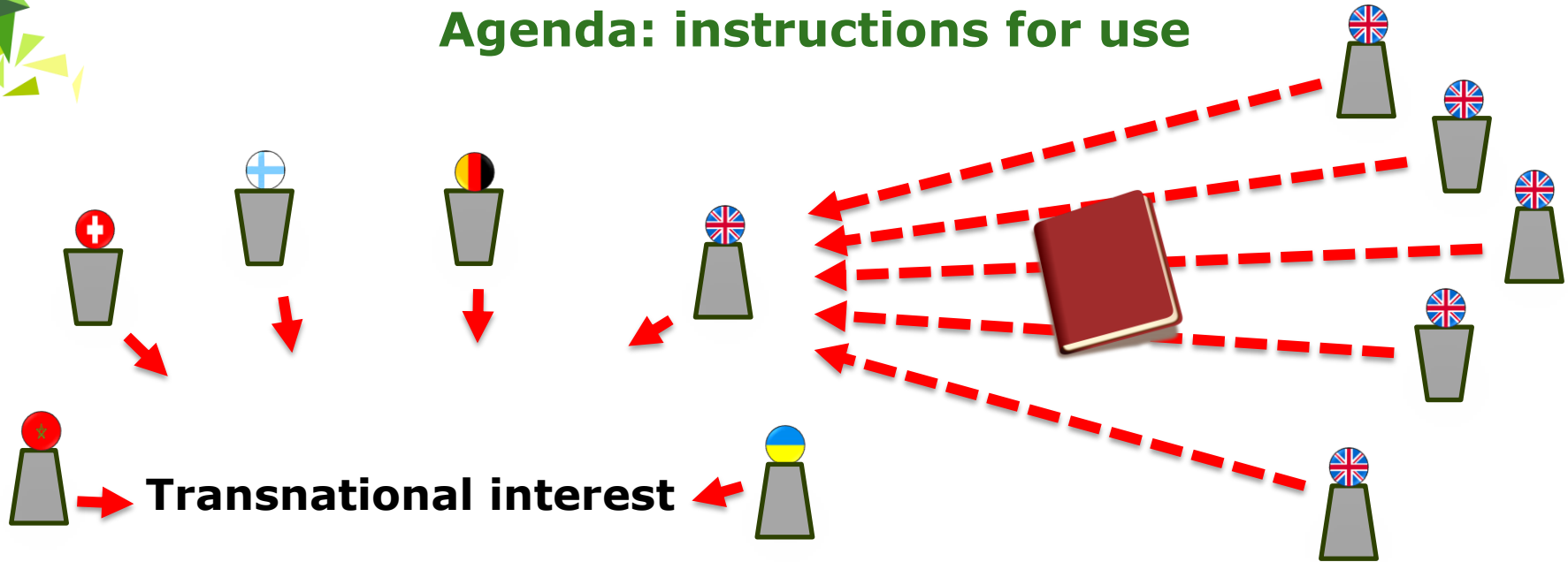


Plant health research co-ordination, cross-sectoral collaboration and learning

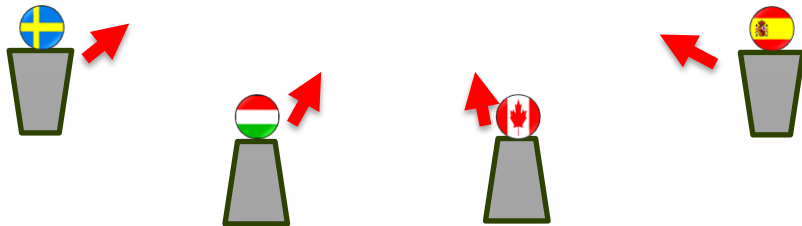
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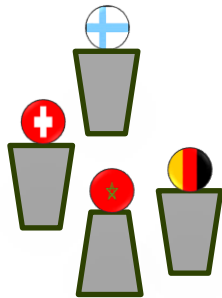
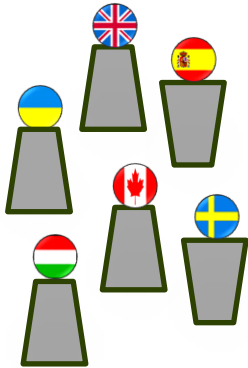
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National consultations



Agenda: instructions for use



Horizon 2020
European Union funding
for Research & Innovation



SFS-05-2018-2019-2020: New and emerging risks to plant health²³

Specific Challenge: Trade and the movement of goods and people have facilitated the introduction, spread and establishment of plant pests and diseases. While new pests and diseases are likely to arise, existing ones might become more severe as a result of intensification, climatic variations and changes in agricultural and forest management practices. They can have a significant impact on agricultural and forest productivity. Appropriate and rapid responses from decision-makers need to be informed by scientific knowledge which addresses pest and disease management in a comprehensive manner.

Scope: Proposals will target one or more new or emerging plant pests and/or diseases (regulated or non-regulated, introduced or native) that are causing, or likely to cause, significant (socio-)economic and/or environmental losses to EU agriculture/forestry. The choice of target pest and/or disease will consider the potential threat in terms of development and spread, its potential exacerbation under climate change as well as the potential impact on agricultural production, forestry, trade and the wider environment. Proposals will increase knowledge of the biology, development and spread of pests/diseases. They will improve methods and strategies for early detection, prevention and control as well as enlarge the range of tools for integrated and sustainable pest/disease management. International cooperation with countries affected or threatened by the same pest(s)/disease(s) is encouraged. Proposals should fall under the concept of the 'multi-actor approach'²⁴ including a range of actors to ensure that knowledge and needs from various sectors such as research, plant health services and the farming/forestry sector are brought together.

The Commission considers that proposals requesting a contribution from the EU of up to EUR 7 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected Impact: Activities will contribute to finding adequate responses to new and/or emerging plant pests/diseases. More specifically knowledge and solutions generated by these actions will contribute to:

²³ It is expected that this topic will continue in 2020

²⁴ See definition of the 'multi-actor approach' in the introduction of this Work Programme part.



Satellites, piloted aircraft and drones

Computer-assisted treatment

Early warning

Prevent expansion

Spectroscopic analysis

Locations difficult to survey

To explore the use of remote sensing technologies to support surveillance and detection activities

Spectroscopy

Geography

Epidemiology

Statistics

International collaboration

Engineering

Plant physiology

Host-pathogens interactions

Hundreds volatiles identified

Early warning

In situ

Pest management

To test and validate the use of volatile organic compounds for early detection and pest management

Plant physiology

Chemistry

Physics

Nanotechnology

Microbiology

Metabolomics

Engineering

NGS

Lateral flow devices

LAMP

Multiple infections

Identification without *a priori* knowledge

In situ

Non-expert user

On site detection and identification of diseases and pests

Taxonomy

Forensic

Molecular biology

Bioinformatics

Nanotechnology

Genetics

Epidemiology

Statistics

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For information: bgiovani@euphresco.net