



SFS-03a-2014

Native and alien pests in agriculture and forestry

PONTE 'Pest Organisms Threatening Europe'



Donato Boscia

CNR-Institute for Sustainable Plant Protection, SS Bari



Target pathosystems

- *Xylella fastidiosa* and hemipteran vector species
- ‘*Candidatus Liberibacter solanacearum*’ and psyllid vector species
- *Hymenoscyphus fraxineus* (anamorph. *Chalara fraxinea*) and new and exotic *Phytophthora* species

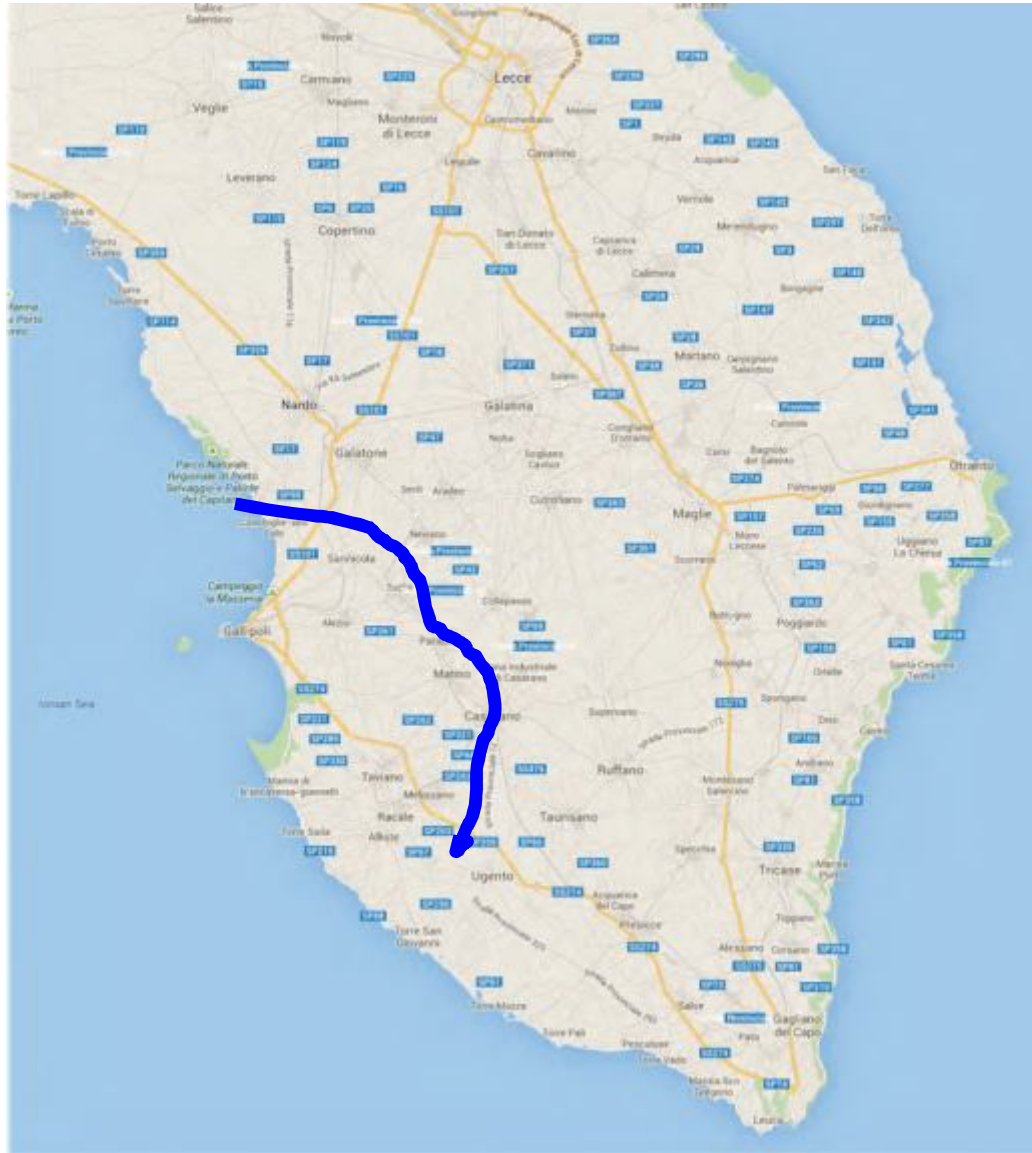


Objectives

The research activities aim to sustain future disease management strategies by developing novel scientific background on the **genetics, biology, vector ecology, economic impacts** and means of **disease(s) control**.

The specific objectives will broadly cover all targeted pathosystems by **merging multidisciplinary researches** with the practical needs of the stakeholders and end-users.

Xf and vector(s)



October 2013:

Xylella fastidiosa reported for the first time in olive trees affected by "Quick decline syndrome"

Xf and vector(s)

October 2013



Xf and vector(s)

Spring 2016

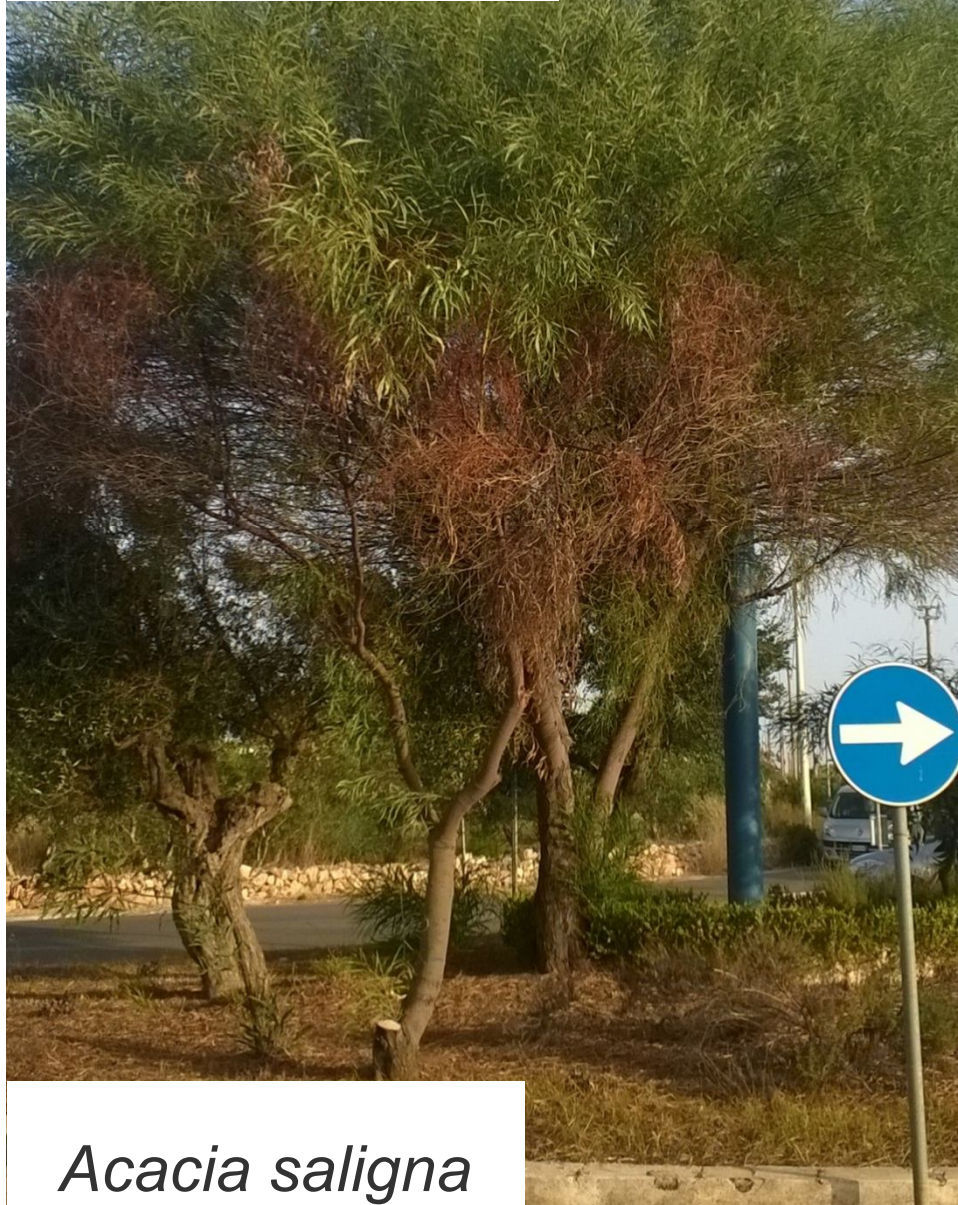


Xf and vector(s)

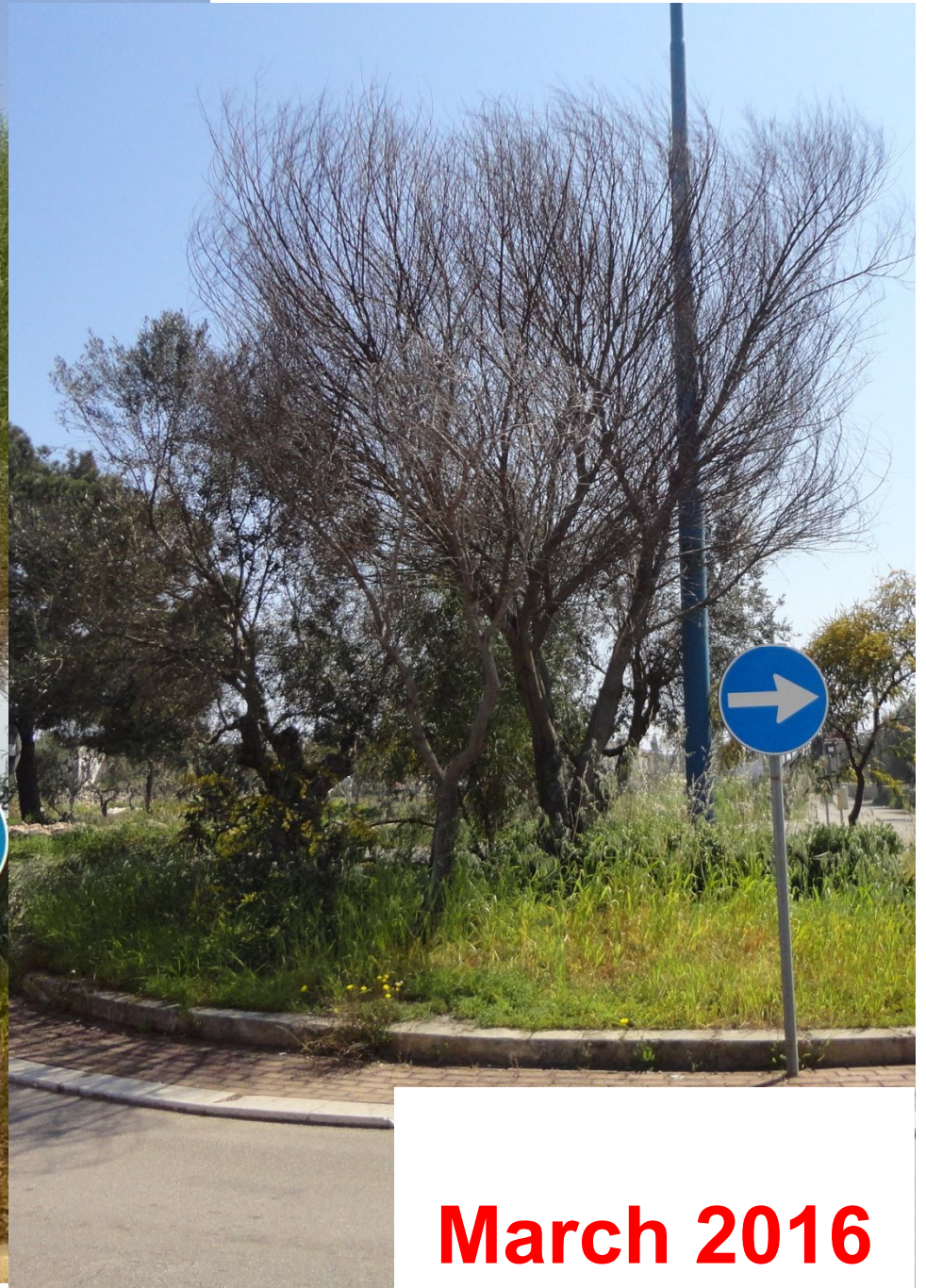
Gallipoli, 1 July 2015



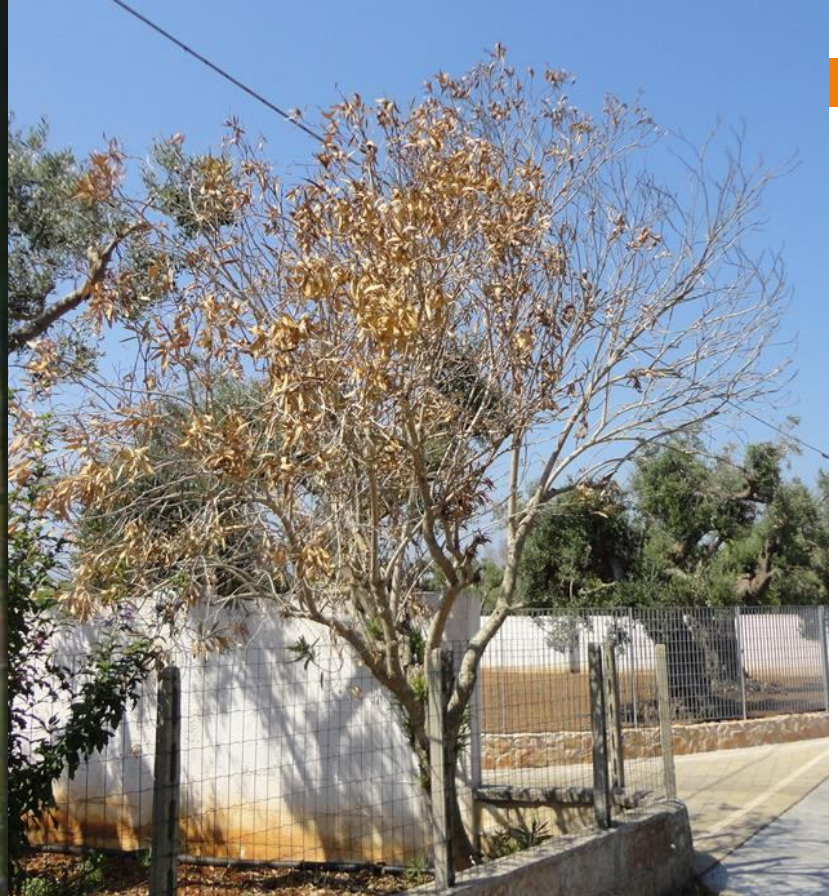
August 2014



Acacia saligna



March 2016





Xf and vector(s)

- Implementation of the **EU *Xf* collection**
- **Genotyping** and **pathogenicity** of the Salentinian strain
- Implementation of the **diagnostic** tools for **monitoring** and **surveillance**
- Identification and ecology of the candidate *Xf* **vector(s)**
- **Epidemiology** and **host-pathogen** interactions
- Strategies for **management** and **containment**

CaLsol and psyllids

www.ponteproject.eu



- Attempt to cultivate *in vitro* CaLsol
- Implementation of the **diagnostic** tools for **monitoring** and **surveillance programs**
- **Vector monitoring** and **molecular** identification
- Assessment of **transmission rate** and **epidemiology** of different psyllid species
- **Managing** and mitigation **strategies** based on **seed treatments, reduction of vectors** and **IPM practices**

Hymenoscyphus fraxineus and *Phytophthora* spp.

www.ponteproject.eu



- Assessment of the **genetic variability** by molecular methods
- Identification and characterization of **forest pathogen** populations
- Implementation of the **diagnostic** tools for **monitoring, surveillance** and **early detection**
- **Integrated management** and full assessment of available **control methods**



What the project will offer?

- Provide **valuable resources** (collections, database, tools, models, etc.) for **future studies** and applied **research** in the **EU**
- **Provide the foundation** for **new pest risk assessment, diagnostics** and **management** of plant pests
- **Provide** scientific support for the **development of relevant EU policies** such as the new PHR that will replace Directive 2000/29/CE
- Support for outreach activities including **prevention, suppression** and **containment of quarantine pathogens and pests**



What the project will offer?

- Build national and **EU research capabilities** to deal with outbreaks of different **exotic pests** and preventing/limiting entry pathways into new areas
- Help in maintaining competitiveness on EU agricultural products **improving integrated farming** systems
- Improve long-term competitiveness to **sustain EU forest industries** and associated **ecosystem services**

Project Consortium



25 PARTICIPANTS
13 COUNTRIES
120 RESEARCHERS





Geographic Distribution

EU COUNTRIES

ITALY	CNR-IPSP, UNIBA-DiSSPA , AGRITEST, ACLI RACALE
FRANCE	INRA, ANSES, VILMORIN
SPAIN	CSIC-ICA, CSIC-IAS, IVIA-AC, IVIA-PPBC, CITOLIVA, AGR VILLENA
BELGIUM	AUREA IMAGING
NETHERLANDS	WU, CERTIS EUR
AUSTRIA	BFW
UK	SG-SASA, FORESTRY RES AG, A L TOZER
GERMANY	LOEWE, PRC
FINLAND	LUKE

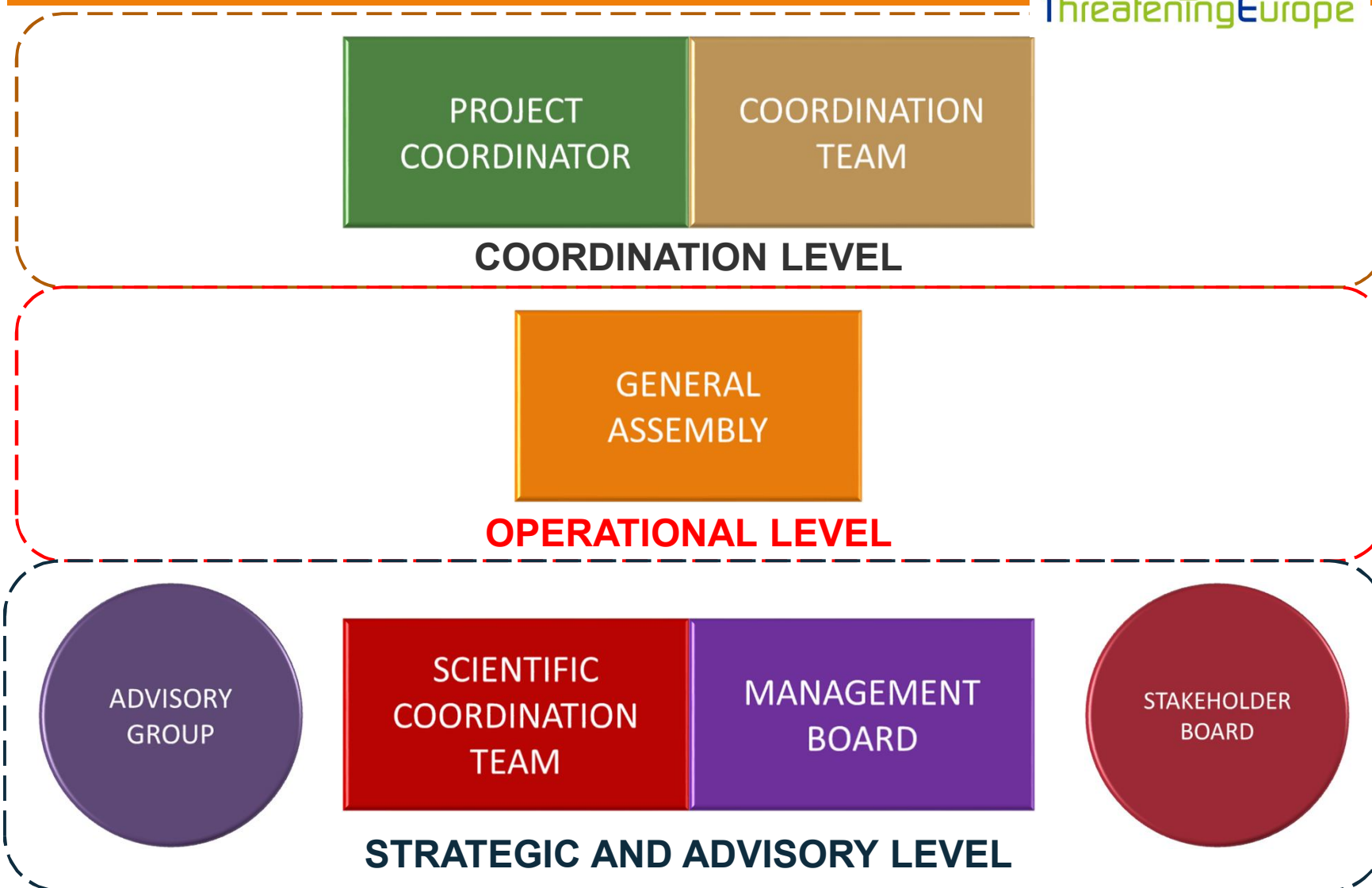
NON-EU COUNTRIES

COSTA RICA	UCR
ISRAEL	ARO VOLCANI
SERBIA	UB-FA
NORWAY	NIBIO





Consortium Bodies





POnTE and *Xylella fastidiosa*

40%
OF TOTAL BUDGET

16

PARTNERS

CNR, UNIBA, INRA, ANSES, IVIA,
CSIC, WU, UCR, ARO
UB, CERTIS, LOEWE, ACLI RACALE,
AGRITEST, CITOLIVA, AGR VILLENA



CaLSol and psyllids

15

PARTNERS

**INRA, ANSES, IVIA, CSIC, SG
SASA, LUKE, WU, ARO,
UB, CERTIS, AUREA,
VILMORIN, CITOLIVA,
AGR VILLENA, A L TOZER**

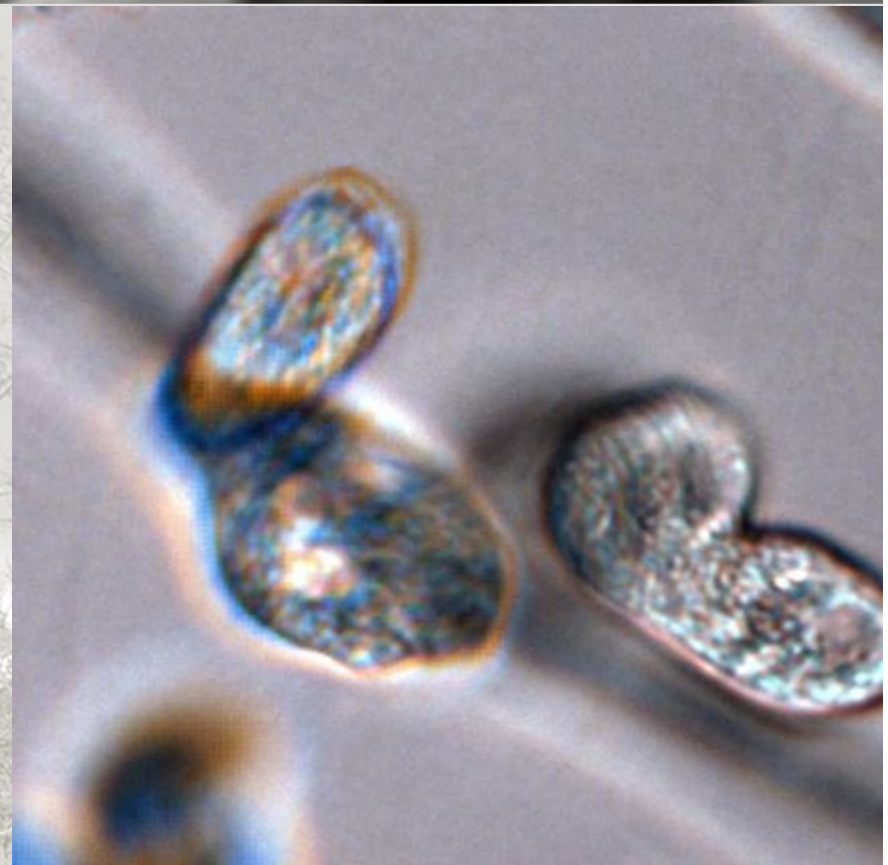


Hf and *Phytophthora* spp.

8

PARTNERS

**CSIC, SG SASA, FORESTRY
RES, BFW, WU, NIBIO,
UB, PRC**





Important Dates

- **Duration:** 4 years
- **Start:** November 1, 2015
- **End:** October 31, 2019
- **Reporting periods**
(May 2017, October 2018, October 2019)
- **First annual Project meeting**
Madrid (Spain), December 2016



Kick off Meeting



European
Commission

Horizon 2020
European Union funding
for Research & Innovation

PONTE
PestOrganisms
ThreateningEurope



Rome (Italy)
27th November, 2015



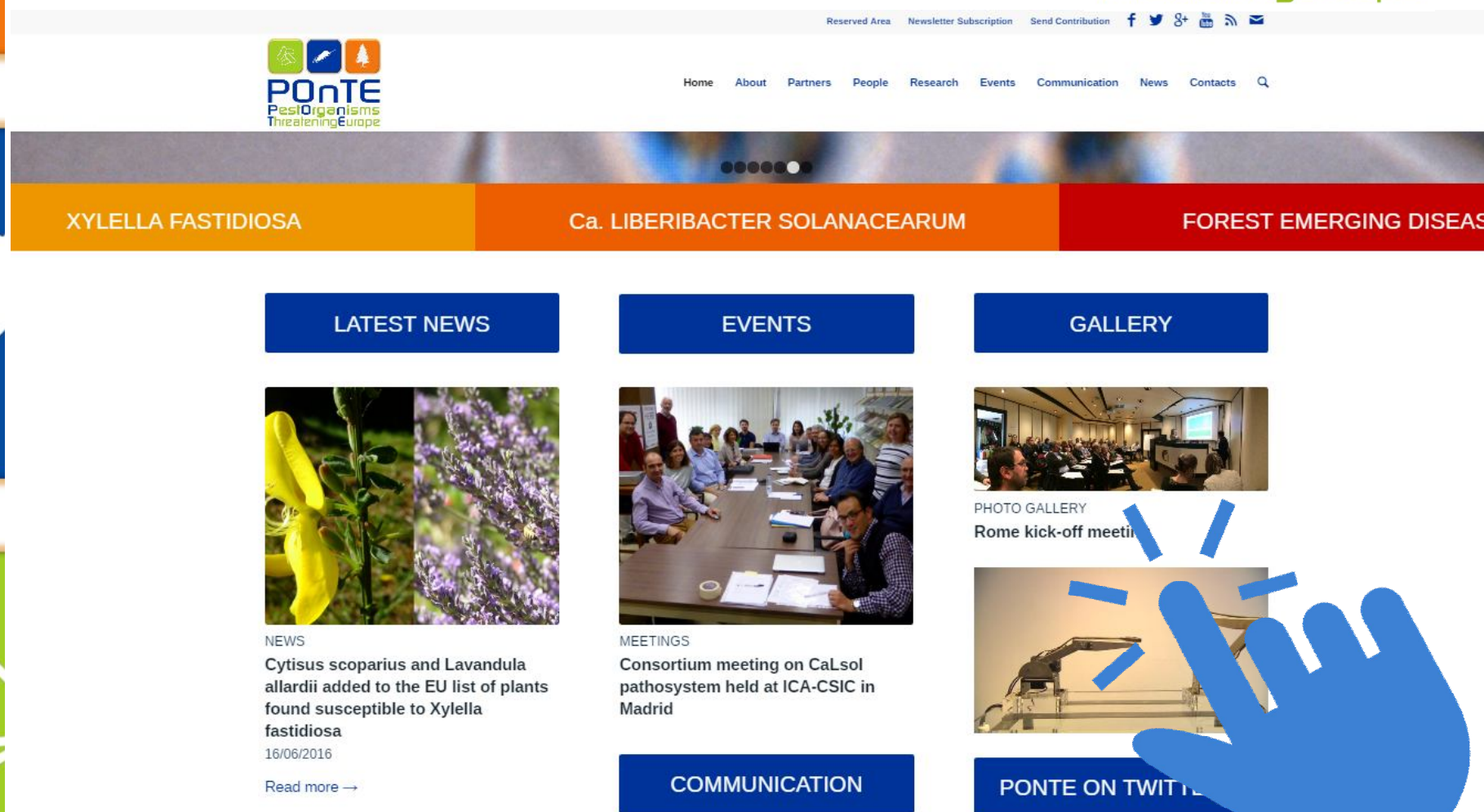
Dissemination of results

- Project **web site** to communicate with internal and external parties
- Organisation of an **annual POnTE meeting** of the representatives of all the Project partners
- Organisation of **technical workshops** addressing a particular topic and presenting field trials, newly developed procedures or results
- **Researcher trainings** organized by leading laboratories and companies will hands-on trainings **on early detection** of the emerging pathogens
- Project presentation at **national and international meetings** and conferences
- **Demonstration events** to deliver to the **stakeholders** novel and innovative strategies and disseminate the results obtained
- Development of **divulcation material** used for promotional activities
- Preparation of **technical publications** to increase the project impact on institutions, **SMEs**, **farmers** and general public
- Publication of **scientific papers** and project **bibliography** to increase visibility of results between the partners and research groups.

Communication channels:

POnTE website

www.ponteproject.eu



Communication channels:

Social Media accounts

www.ponteproject.eu



info@ponteproject.eu



www.facebook.com/ponteprojecteu



[@ponteprojecteu](https://twitter.com/ponteprojecteu)



Ponte Project



Ponte Project EU

Communication channels:

Weekly Newsletter

www.ponteproject.eu



NEWSLETTER | Jun 13, 2016 ISSUE

Published on Jun 12, 2016 07:59 am

PONTE Project presented at the II TRAFoon Training Workshop on Olives, held in Córdoba

On June 8, 2016, PONTE project was presented at the II TRAFoon Training Workshop on Olives, held in Córdoba (Spain) at the principalship of the Córdoba University. During her talk, given in Spanish, on the Current situation and scientific advances in the pathosystem *Xylella fastidiosa*-olive, Dr. Blanca Landa, researcher at the IAS-CSIC, took the opportunity to [...]

[Read More](#)



Published on Jun 11, 2016 01:00 am

Xylella fastidiosa chosen as a case study for the IPPC implementation pilot project on pest surveillance

During the eleventh session of the Commission on Phytosanitary Measures (CPM 11), held in Rome from 4 to 8 April, a small group of representatives from Australia, United Kingdom, Indonesia, Japan, Republic of Korea and the IPPC Secretariat proposed to support an initiative aiming to support the IPPC implementation pilot on pest surveillance. Three emerging [...]

[Read More](#)



Dissemination

www.ponteproject.eu



February 2016, Karakhusa (Serbia)
workshop on “Economic aspects of forest management & planning”
POnTE activities presented by Ljiljana Keča, UB-FF (Serbia)



Links with EU initiatives

EUPHRESKO network

Scoping with *Xylella fastidiosa* (2015-F-146):
Harmonized protocol for monitoring and detection of
Xylella fastidiosa in its host plants and its vectors



Euphresco



Links with EU initiatives

Complementary action

H2020-SFS-2016-2017 - SFS-09-2016- TOPIC :
Spotlight on critical outbreak of pests: the case of
Xylella fastidiosa



HORIZON 2020



Links with EU initiatives

Joint activities

Cooperation with JRC for implementing the *Xf* surveillance program





Links with EU initiatives

Joint activities

Collaboration with EPPO to harmonize validated diagnostic procedures



Thanks for your attention by...our Project Team

www.ponteproject.eu

