



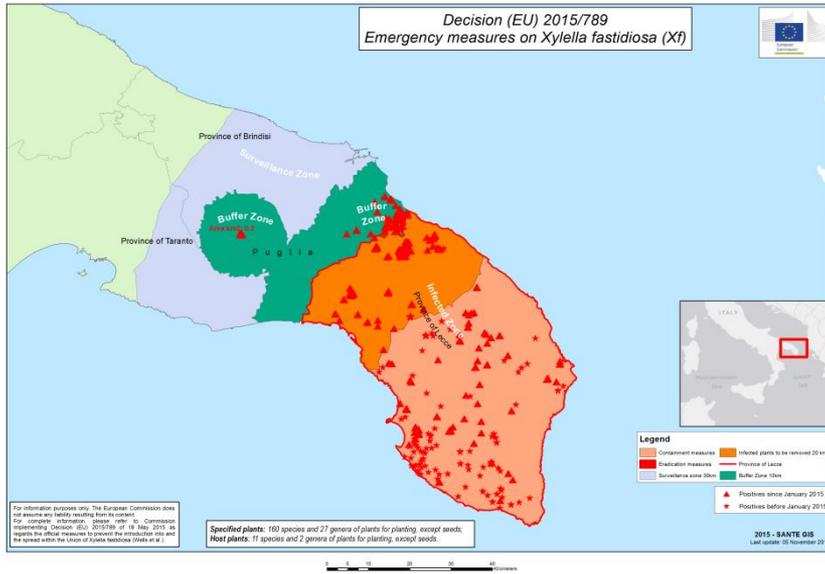
# Openings for research on plant health and plant protection in Horizon 2020

Focus on *Xylella fastidiosa*

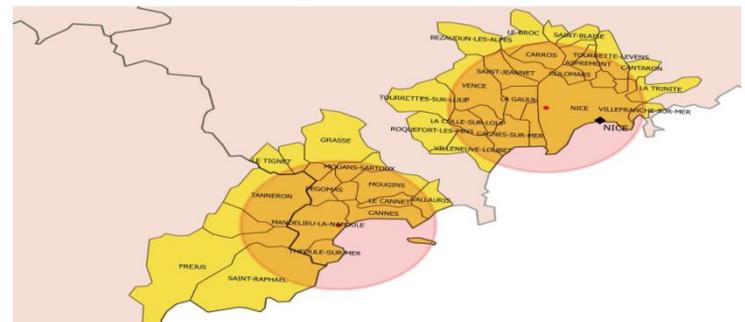
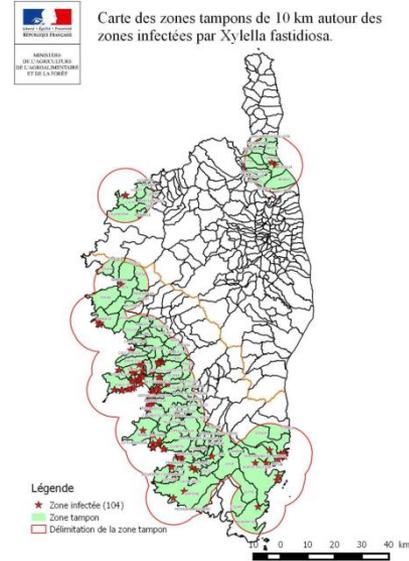


# Occurrence of *Xylella fastidiosa* in Europe

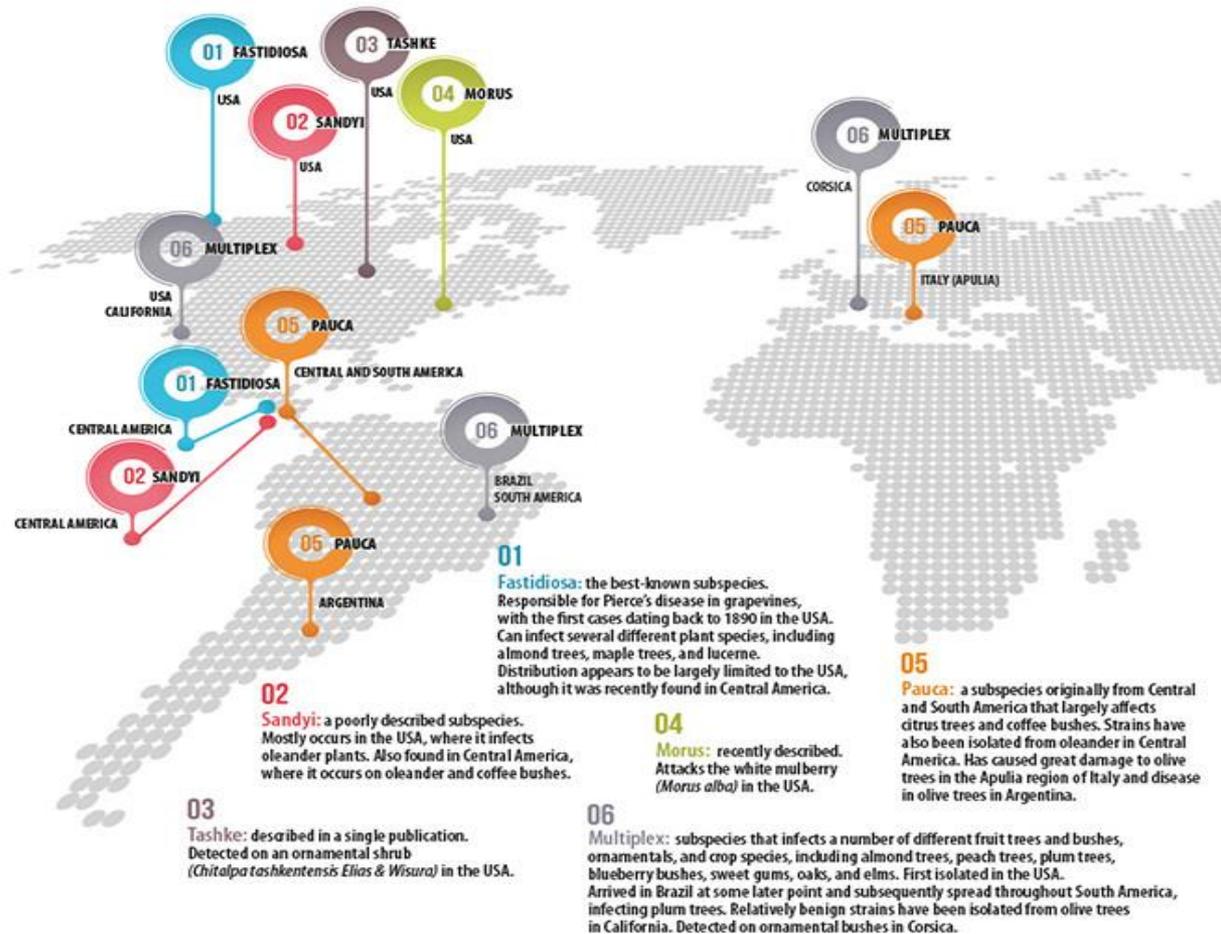
## Italy



## France



# The World's six currently described subspecies of *Xylella fastidiosa*



# Research in support of eradication, control and prevention of *Xylella fastidiosa*

## I. Past and on-going actions

- Research workshop "Xylella fastidiosa: Options for its control", 15 July 2015, Milan
- Research workshop "Xylella fastidiosa: knowledge gaps and research priorities for the EU", 12/13 November 2015, Brussels
- Start of Horizon 2020 research project PONTE.

Proposal submitted in response to call topic SFS-3-2014: "Practical solutions for native and alien pests affecting plants". POnTE project tackling a number of pathogens and crops incl. *Xylella f.* in olives

- EUPHRESKO (network for phytosanitary research coordination) activities

## II. Upcoming actions

- Call topic SFS-9-2016: Spotlight on critical outbreak of pests – the case of *Xylella fastidiosa*

# POnTE project (1)

## "Pest organism threatening Europe"

- **Funding:** 6.85m€ EU contribution
- **Duration:** 4 year (Nov2015-Oct2019)
- **Consortium:** 25 participants; 10 EU, 3 extra EU;
- **Coordinator:** Consiglio Nazionale delle Ricerche – Istituto per la Protezione Sostenibile delle Piante UOS Bari (CNR-IPSP), Italy
- Web: <http://www.ipsp.cnr.it/projects/ponte/?lang=en>
- **Target s:**
  1. *Xylella fastidiosa* and hemipteran vector species. (Wf)
  2. 'Candidatus Liberibacter solanacearum' and psyllid vector species. (CaLsol)
  3. *Hymenoscyphus pseudoalbidus* (anamorph. *Chalara fraxinea*) and new and exotic *Phytophthora* species (Hp)

# PONTE project (2)

## Major expected research outcomes

- Discovery of biomolecules that can be patented, manufactured, formulated and applied to prevent or reduce host colonization (i.e. DSF for *Xf*)
- Chemical compounds that prevent vectors, like spittlebug, sharpshooters or psyllid, to acquire *Xf* or *CaLsol*
- Selection of tolerant or resistant varieties
- Discovery of endophytic bacteria that can cross protect against *Xf*
- Development of early detection of the pathogens that can be applied for inspection at port of entry to interdict the exotic pathogens and pests
- Discovery of an optimal biological control agent for vectors of *Xf* and *CaLsol*
- Regulatory testing of seeds of crops susceptible to *CaLsol*
- Development of pest management regimes to mitigate the impact and the further spread of emerging diseases and alien pests.

# Topic SFS-09-2016 "Spotlight on critical outbreak of pests: the case of *Xylella fastidiosa*" (1)

- **Funding:** up to 7m€ EU contribution
- **Scope:** Comprehensive package of actions to improve **prevention, early detection and control** of *X. fastidiosa* in hosts and vectors:
  1. **Increase knowledge** on
    - the biology of the pathogen and vector(s),
    - host/vector/pathogen interaction
    - epidemiology.
  2. Develop **practical guidelines** and integrated solutions for crop and disease **prevention and management (detection, control)** in conventional and organic farming systems
  3. Develop region-specific **risk assessment** and **eradication plans**

# Topic SFS-09-2016 "Spotlight on critical outbreak of pests: the case of *Xylella fastidiosa*" (2)

- Work to target the **Apulian strain of *X. fastidiosa*** and **other strains** that could represent a serious risk in the EU.
- **International collaboration** highly encouraged with partners from Third Countries affected by the pest.
- Activities to take into account ongoing and/or recent work, e.g. funded under the **EUPHRESKO ERA-NET** and **PONTE**

# Call 2016 deadlines

<b>Publication</b>	<b>Submission</b>		<b><u>Deadlines</u></b>	<b>Information to applicants</b>	<b>Grant Agreements</b>
<b>14 OCT 2016</b>	two-stage submission (RIA with some exceptions)	1st stage	<b>17 Feb 2016</b>	May 2016	-
		2nd stage	<b>13 Sept 2016</b>	Nov 2016	May 2017
	single stage submission (IA, CSA, ERA Net)	Single stage	<b>17 Feb 2016</b>	May 2016	October 2016



# HORIZON 2020

**Thank you !**

**Find out more:**

[www.ec.europa.eu/research/horizon2020](http://www.ec.europa.eu/research/horizon2020)

# H2020 Openings for plant and agricultural research

## Part I Excellent Science



1. European Research Council



2. Future and Emerging Technologies

3. Marie Skłodowska-Curie Actions



4. Research Infrastructures

## Part II Industrial Leadership

- 1. Enabling & Industrial Technologies
  - 1.1 Information and communication technologies
  - 1.2 Nanotechnologies
  -  1.3 Advanced materials
  - 1.4 Biotechnology
  - 1.5 Advanced manufacturing
  - 1.6 Space

2. Access to Risk Finance



3. Innovation in SMEs

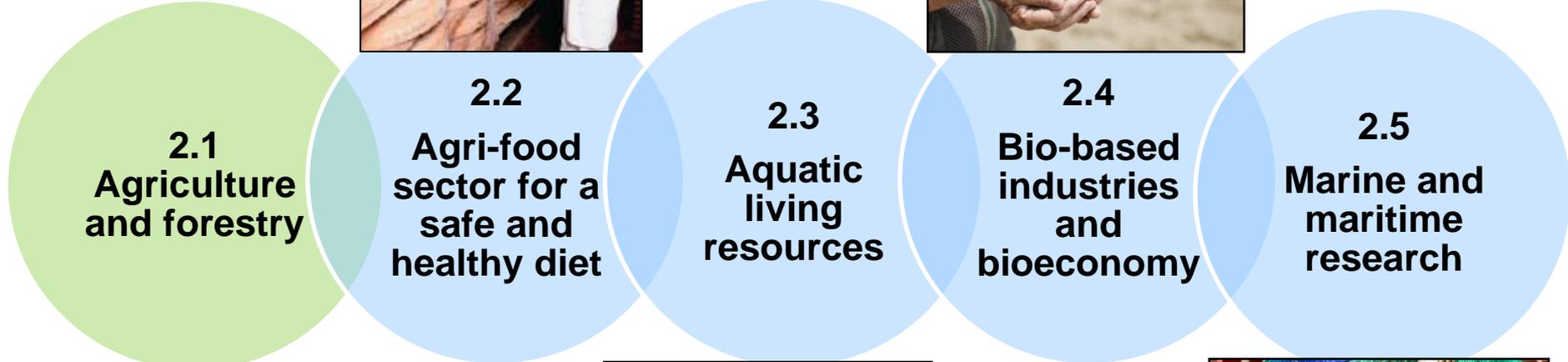
## Part III Societal Challenges



- 1. Health and wellbeing
- 2. **Food security, sustainable agriculture, marine research and the bioeconomy**
- 3. Secure, clean and efficient energy
- 4. Smart, green and integrated Transport
- 5. Climate Action, Environment, Resource Efficiency
- 6. Inclusive, innovative and reflective societies
- 7. Secure societies

# Societal Challenge 2

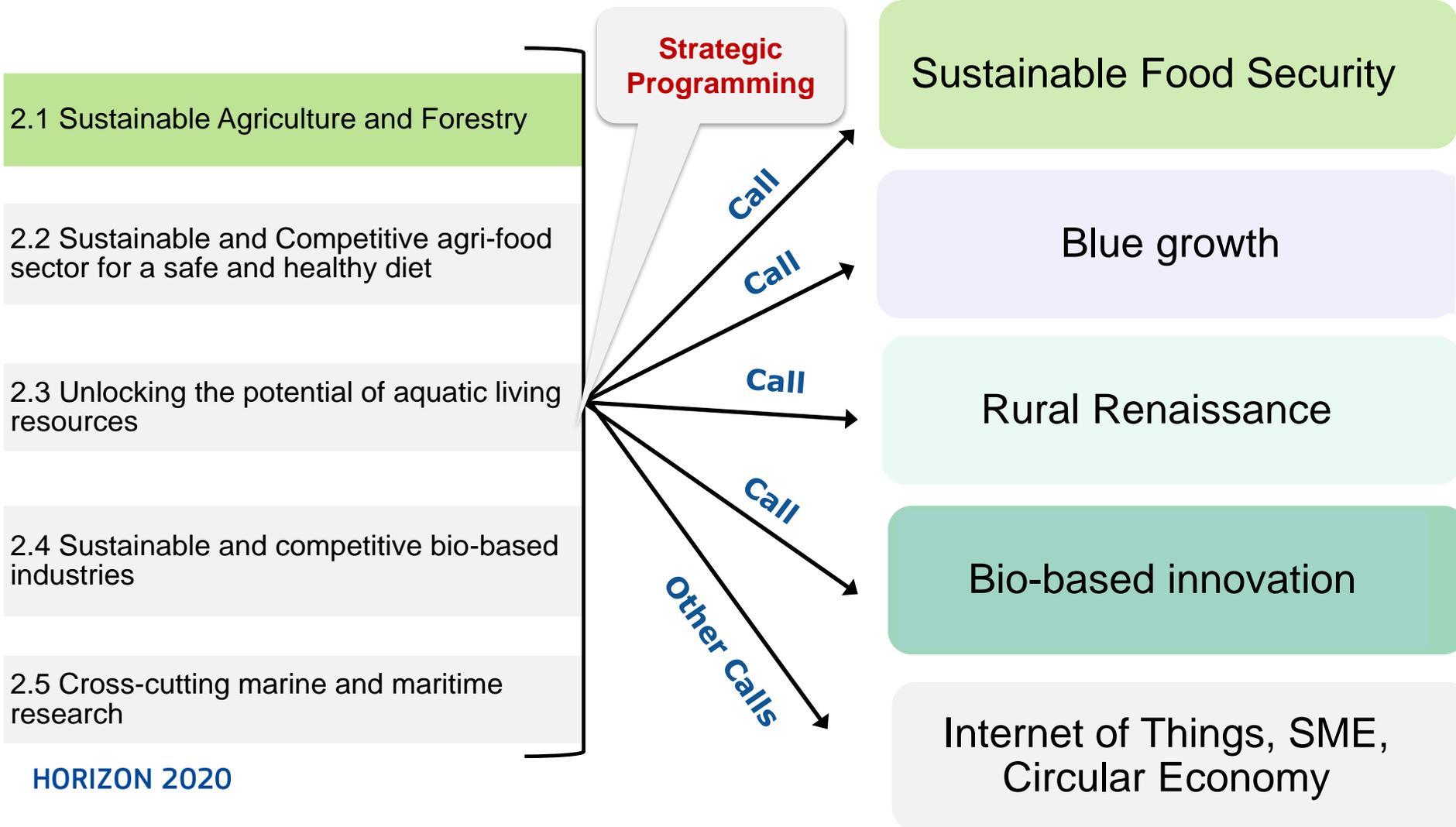
About 3.7 bn € for research on primary production, food and biobased resources



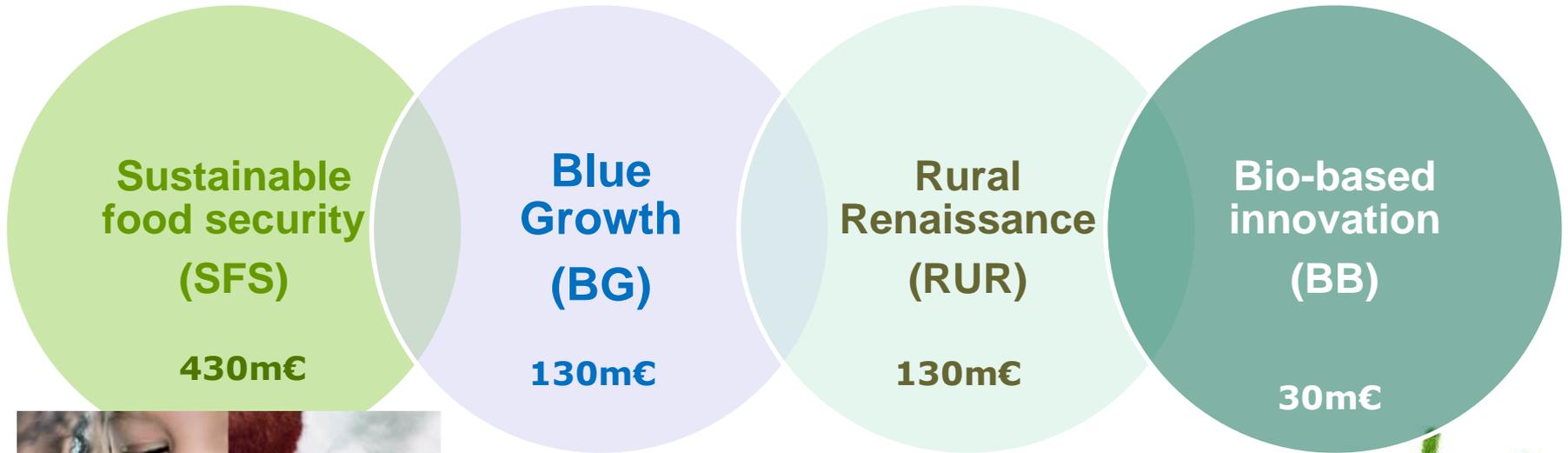
# From Specific to SC2 Work Programme 2016-2017

## SPECIFIC PROGRAMME

## WORK PROGRAMME 2016-2017



# Four Societal Challenge 2 Calls in WP 2016/2017



# Topics with relevance for research and innovation on plant health and plant protection

SFS-08-2017: Contentious inputs in organic farming



SFS-09-2016: Spot on critical outbreak of pests: The case of *Xylella fastidiosa*

SFS-10-2017: Research and approaches for emerging diseases in plants and terrestrial livestock (excluding *Xylella*)



SFS-11-2016: Challenges for disease management: Perennial crops in the tropics and sub-tropics

SFS-13-2017: Validation of diagnostic tools for animal and crop health



SFS-17-2017: Innovations in plant protection

SFS-28-2017: Functional Biodiversity - effective crop pollinators and predators interplay

# Topics which offer potential for research and innovation on plant health and plant protection

SFS-02-2016: Exploiting the benefits of species diversity in cropping systems



SFS-03-2016: Testing and breeding for sustainability and resilience in crops

SFS-05-2017: Robotics Advances for Precision Farming



RUR-10-2016/2017: Thematic networks compiling knowledge ready for practice

BB-3-2017: Adaptive tree breeding strategies and tools for forest production systems resilient to climate change



# Guidance and tools



- Work Programme 2016-017  
[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016\\_2017/main/h2020-wp1617-food\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-food_en.pdf)
- Participant Portal (information on calls, legal documents, H2020 manual)  
<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>
- Communication and dissemination matters!  
Look at the [communication and dissemination guide](#)
- Applying to a topic with a strong Social Science and Humanities (SSH) dimension?
  - [SSH page of the H2020 Manual](#)

# Any questions?



- Frequently asked questions (FAQ) on participant portal
- IT Helpdesk for questions about the Participant Portal tools and processes.
- Contact your National Contact Point or the Horizon 2020 helpdesk for guidance, practical information and assistance on all aspects of participation in Horizon 2020.