

# EU Research & Innovation activities



**24-25 April 2018**

**Workshop R&I in Plants  
Proteins**

**Gaëtan DUBOIS**

**European Commission**

# The EIP-AGRI in a nutshell

*Innovation Union Flagship Initiative: 5 EIPs link existing policies and instruments to speed up innovation*  
**Commission Communication COM (2012) 79**

**Aim: Fostering a competitive and sustainable agriculture and forestry sector that 'achieves more from less'**

**Approach:** *Closing the innovation gap between research and practice and forming partnerships by:*

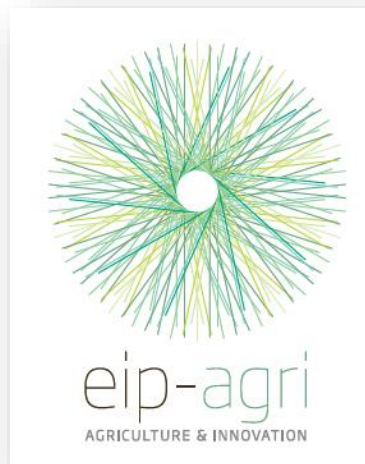
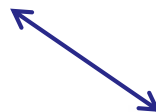
- **Using the interactive innovation model**
- **Linking actors through the EIP-AGRI Network**

# European Innovation Partnership

Overarching concept – funding in:

## Rural Development

- **Setting up "operational groups"** involving farmers, advisor, agribusiness, research, and NGOs to work on innovation projects
- **Project funding** for activities of operational groups, possibly combined with other measures (investment, knowledge transfer, advisory services)
- Supporting **innovation support services**



## Horizon 2020

- **Research projects**, including on-farm experiments to provide the knowledge base for innovative actions
- Interactive innovation formats such as **multi-actor projects** and **thematic networks** genuinely involving farmers, advisors, enterprises,... "all along the project"



## EIP-AGRI Service Point

SHARING KNOWLEDGE - CONNECTING PEOPLE - TACKLING CHALLENGES

### SERVICES

HELPDESK

FOCUS GROUPS

WORKSHOPS & SEMINARS

Connecting farmers, researchers, advisors,  
businesses, environmental groups,  
consumer interest groups and other NGOs

Online & Printed Publications

Database

Funding opportunities  
Research needs from practice  
Experts  
Case Studies  
Finding partners



Newsletter

Press

Social Media

Website

Events

Help agricultural innovations spread across Europe fast



Connecting  
Research & Practice

Connecting  
Scientists & Farmers

Connecting  
Within & Across  
European Countries

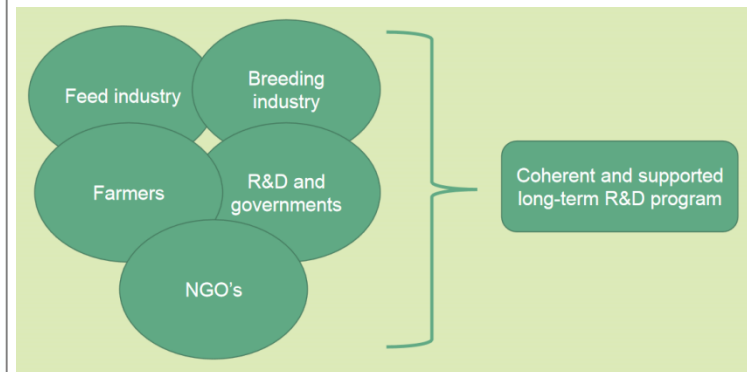
# EIP-AGRI Focus Group & Workshop on protein crops



## *Constraints and opportunities:*

- Breeding chain and genomics
- Yield improvement and stability
- Transition: developing or adapting a value chain
- Crop diversity/Mixed cropping
- Extension and farmer's unfamiliarity with protein crops
- Diversification of the livestock chain
- Sustainability and transparency demands.

## *Conclusion: integral approach*

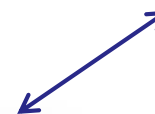
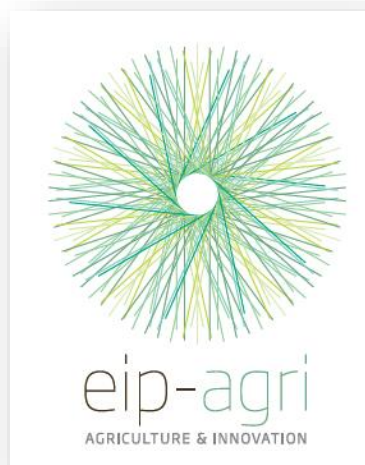
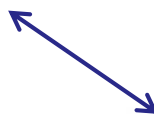


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## ***Key Acting Entities Within the EIP***

### ***- Operational Groups -***



*"Operational Groups" are no stakeholder networks, no stakeholder boards, no thematic coordination groups, nor discussion groups*  
*An OG = actors working together in a project targeted at innovation and producing concrete results*

## First mapping of OGs dealing with Legumes

Many OGs are dealing with nutrient management in the fields and protein-feed management for livestock in order to reduce the impacts on the environment. Some OGs specifically mention Legumes:

### Ecosystem services

4+ projects – 1M€

*Cover crop  
Companion  
crop*

*N-fertiliser*

*Weed & pest  
management*

### Crop production

~10 projects – 6,8M€

*legumes in short cereal-  
based rotations*

*Yields  
increase &  
stability*

*Associations:  
cereals-legumes  
and grass-legumes*

*Nutrients  
management and  
N transfer*

*Organic and  
conventional*

*Soil organic matter*

### Feed (Food)

10-15 projects - 4M€

*Feed  
management*

*Local  
Native  
sources*

*Dairy cows*

*Pigs*

*Laying hens*

*Clover  
pellets*

*Feed autonomy*

*Protein self-sufficiency*

*GMO-free*

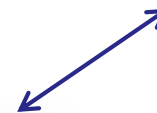
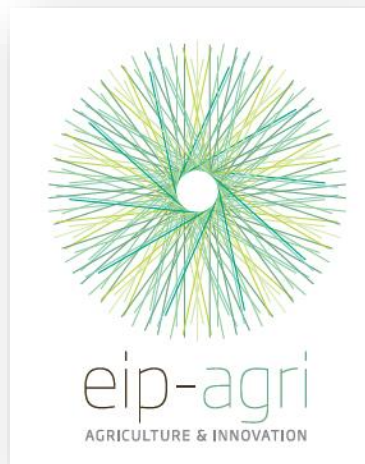
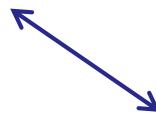


# ***European Innovation Partnership***

Overarching concept – funding in:

## **Rural Development**

- *Setting up "operational groups" involving farmers, advisor, agribusiness, research, and NGOs to work on innovation projects*
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- *Supporting **innovation support services***



## **Horizon 2020**

- ***Research projects**, including on-farm experiments to provide the knowledge base for innovative actions*
- *Interactive innovation formats such as **multi-actor projects** and **thematic networks** genuinely involving farmers, advisors, enterprises,... "all along the project"*

## 3 Pillars

## 7 Societal challenges

Challenge based

• **Industrial leadership**

• LET, Risk Finance, SME

• **Societal challenges**

• **Excellent science**

• ERC, Marie Curie, FET, Infrastructures,

**1. Health, demographic change and wellbeing**

**2. Food security, sustainable agriculture, marine and maritime research and the bioeconomy**

**3. Secure, clean and efficient energy**

**4. Smart, green and integrated transport**

**5. Climate action, resource efficiency and raw materials**

**6. Inclusive, innovative and reflective societies**

**7. Secure societies**

Bottom up

# Looking back to FP7

*KBBE.2009.1.2-01: Legumes –  
key multifunctional legume crops  
for an energy-efficient and  
environmentally friendly future  
European agriculture*



*KBBE.2011.1.1-02:  
Integrated approach to  
studying effect of combined  
biotic and abiotic stress in  
plants*



*KBBE.2013.1.2-02: Legume breeding  
and management for sustainable  
agriculture as well as protein supply  
for food and feed*



*KBBE.2009.1.2-01:  
Multifunctional grasslands for  
sustainable and competitive  
ruminant production systems  
and the delivery of ecosystem  
services*



...

# Horizon 2020 – Societal Challenge 2

*SFS-15-2014 **Proteins of the future***

**PROTEIN  
2FOOD**

*SFS-26-2016 **Legumes - transition paths to sustainable legume-based farming systems and agri-feed and food chains***

  
**LEGVALUE**



*SFS-44-2016 **A joint plant breeding programme to decrease the EU's and China's dependency on protein imports***

 **EUC  
LEG**

*Other topics/projects where Legumes contribute:*

*SFS-02-2016 **Teaming up for good: Exploiting benefits of species diversity in crop systems***

*RUR-06-2016 **Crop diversification systems for the delivery of food, feed, industrial products and ecosystems services - from farm benefits to value-chain organisation***

...