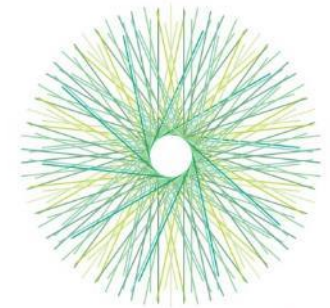


# The European Innovation Partnership “Agricultural Productivity and Sustainability”

networking tools and ‘green economy’ activities



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ENRD Thematic group ‘Green Economy’

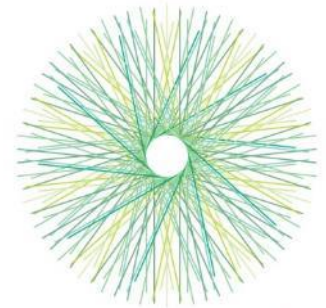
Willemine Brinkman, EIP-AGRI Service Point  
Rotterdam, 7 April 2016

funded by



European  
Commission

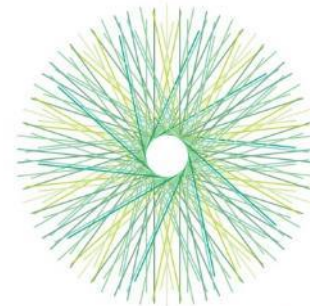
# EIP-AGRI in a nutshell



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- 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

# Means to implement the EIP-AGRI



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## Rural Development Programmes

- Operational Groups
- Project funding
- Innovation support services

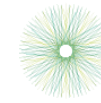
## Horizon 2020 (EU Research Policy)

- Multi-actor research projects involving the agricultural community
- Thematic networks, unlocking and exchanging knowledge across the EU



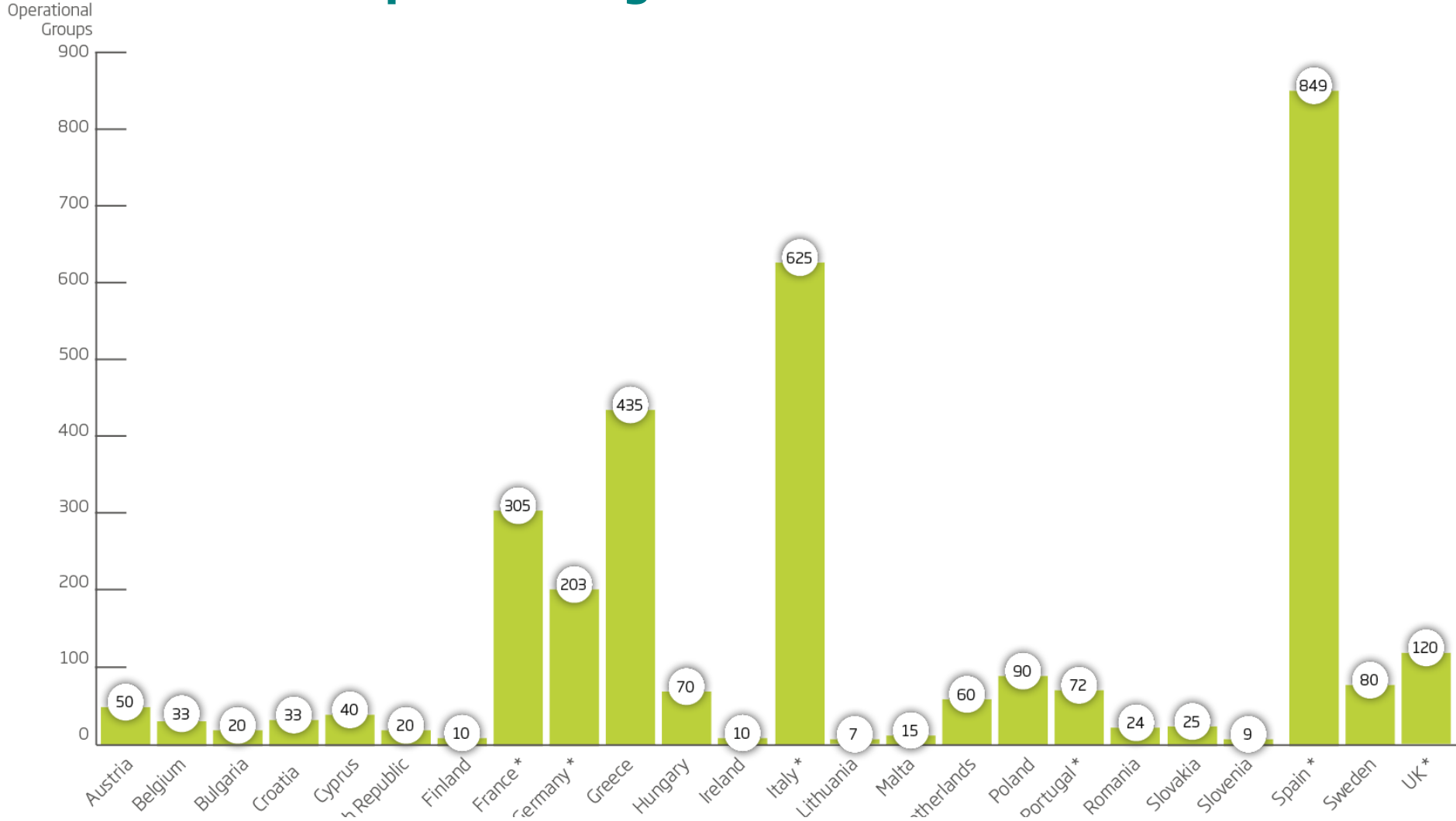
## EIP-AGRI Network

# Updates on EIP-AGRI Implementation Rural Development Programmes



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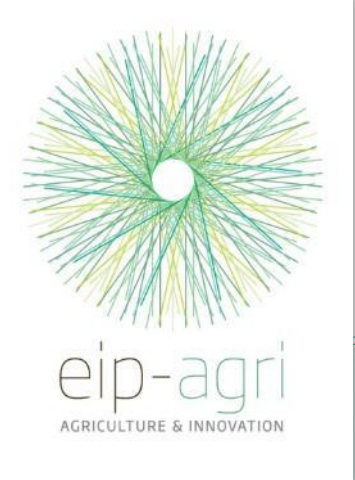
RDP support to EIP Operational Groups - Update - All 118 Rural Development Programmes 2014-2020 have now been approved.

\* sum of single RDPs approved as of 11 December 2015

source: European Commission

# EIP-AGRI Network

Sharing Knowledge – connecting people – tackling challenges



## 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

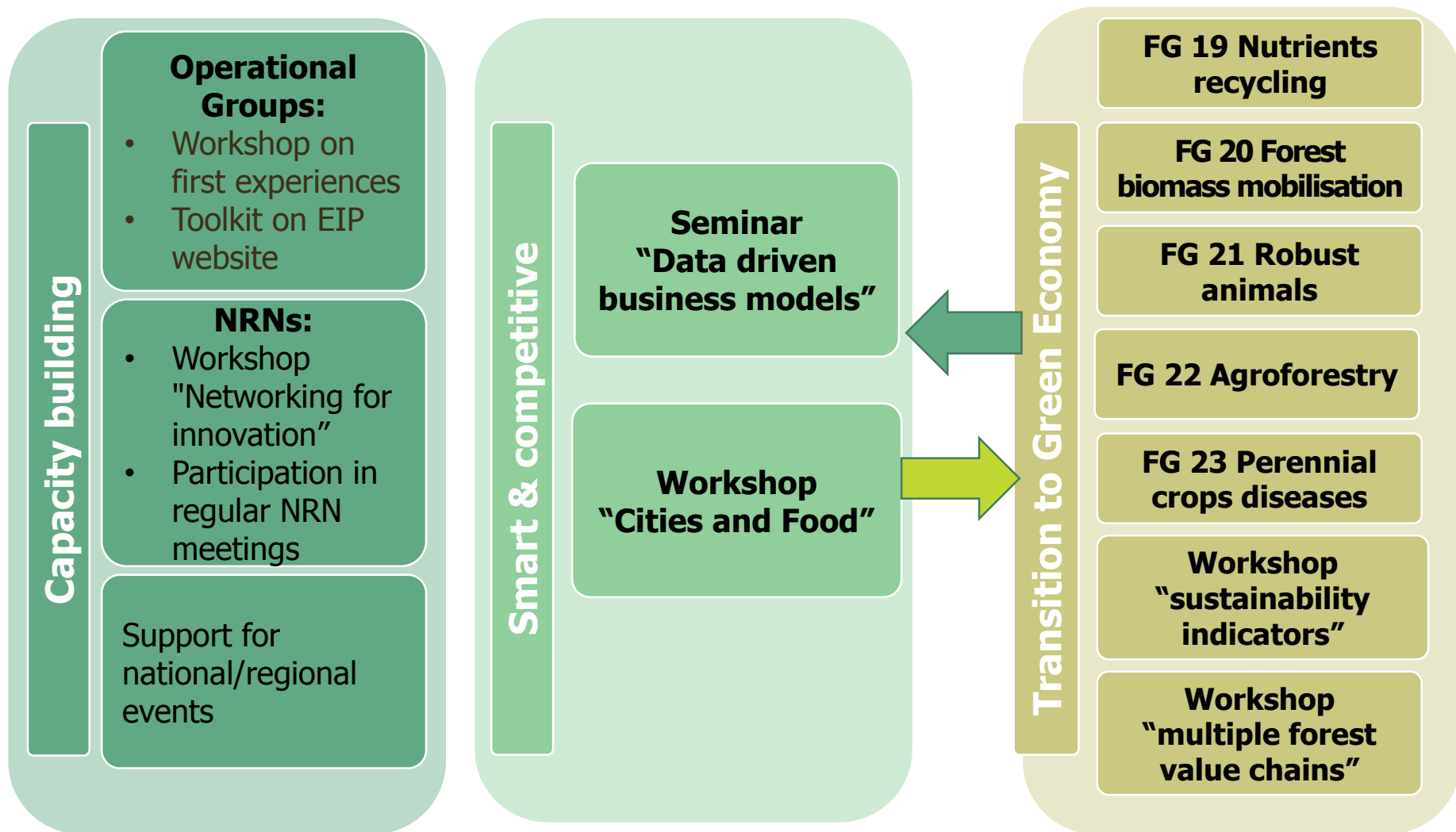
Social Media

Website

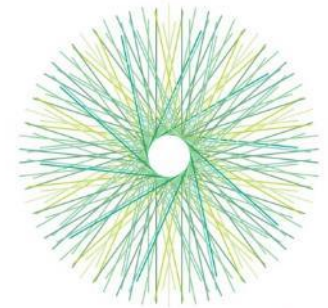
Events



# EIP-AGRI Network activities 2016



# [www.eip-agri.eu](http://www.eip-agri.eu) the one-stop-shop for agricultural innovation



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**SHARE WITH US**



**SEARCH AND FIND**



**FOCUS ON**



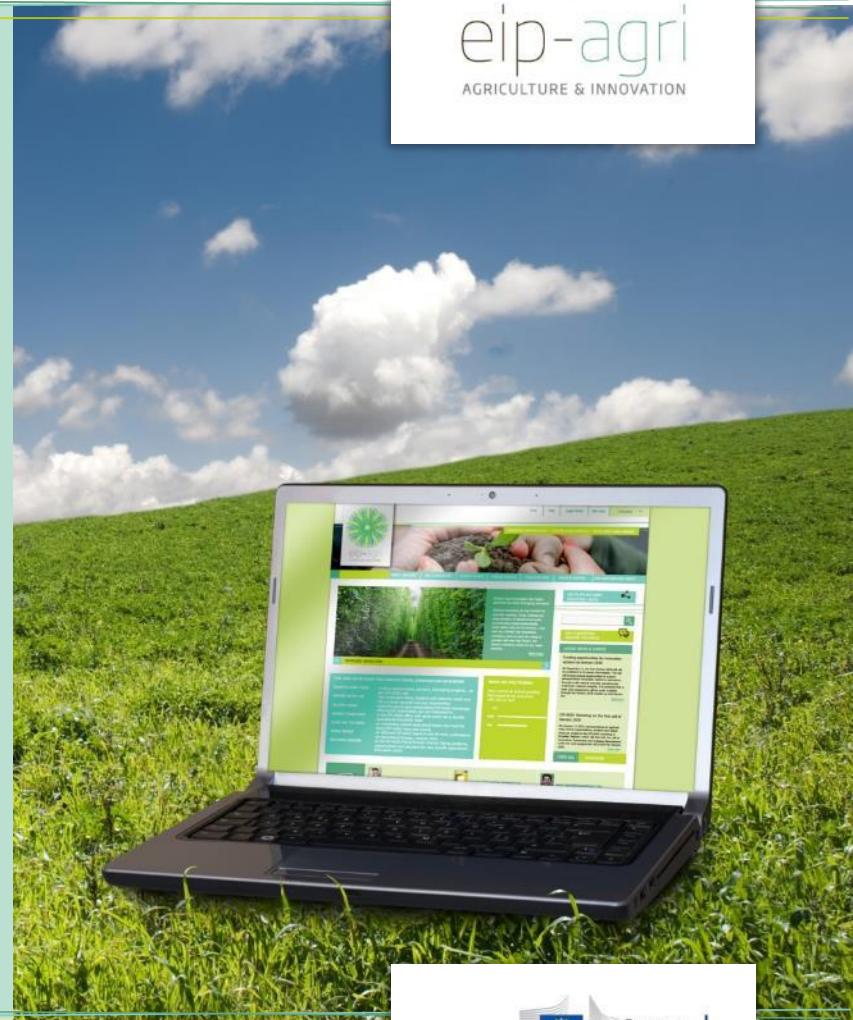
**DEEPEN YOUR KNOWLEDGE**



**STAY UP TO DATE**



**MY EIP-AGRI**

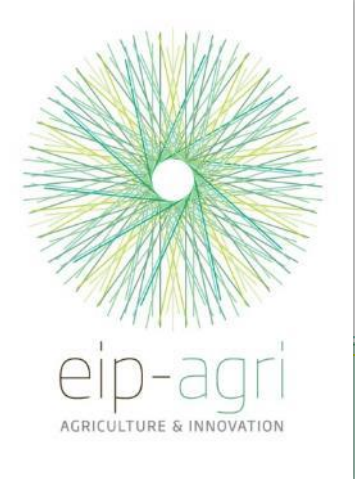


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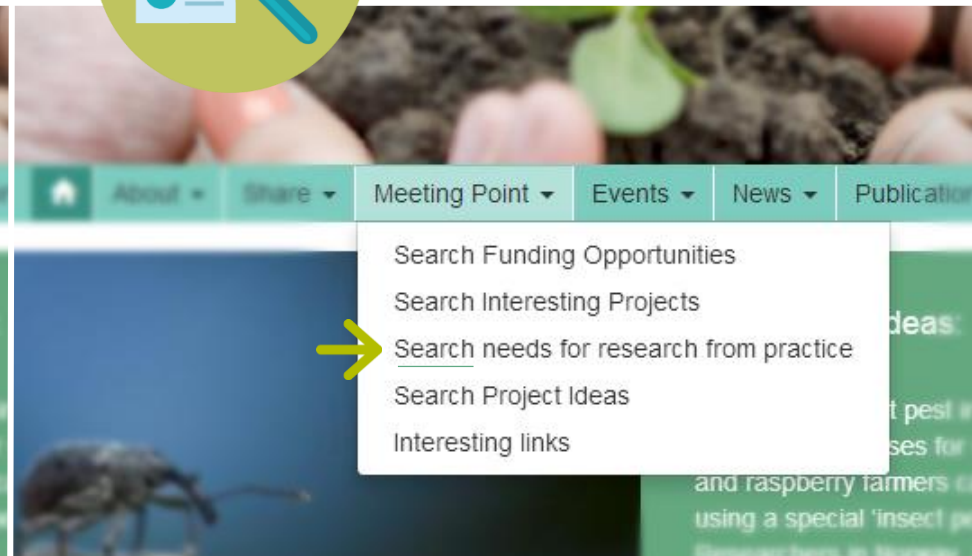
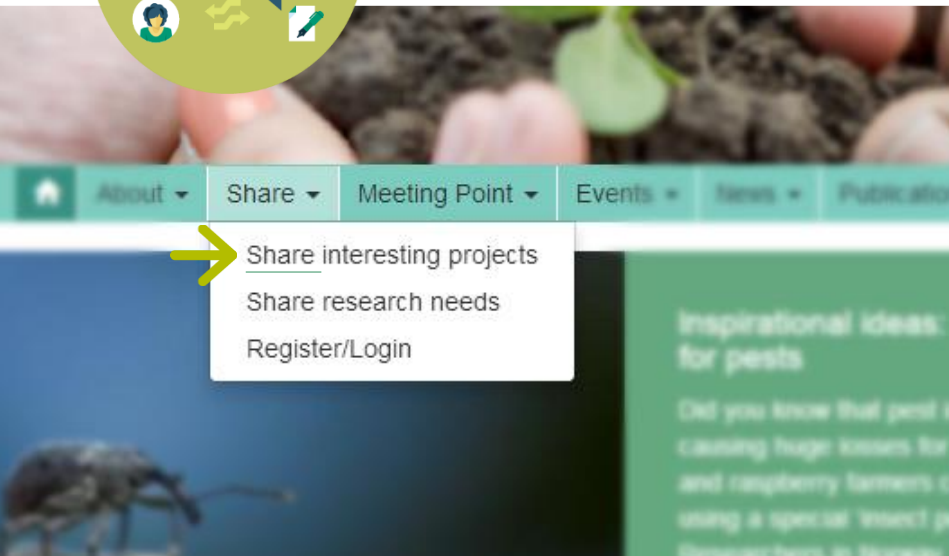
# Website – Interactive functions



## Share

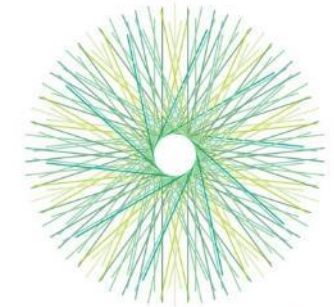


## Search





# Information online - Publications



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**More than the sum of its parts: PLATFORM**

An article by Dr. Christine Buntthof

This year many of Europe's funders of deep-sequence research met in the Blackwell museum, London (UK) to discuss how to effectively pool funding and knowledge for these fields of research that are essential to innovation in the agri-, food and forestry sectors. The PLATFORM project held its annual workshop in the company and building which became a University Hospital in the 17th century. It is now the Netherlands national museum of science and medicine, where the history of life sciences is presented to school children, tourists and anyone else, linking it to current biology.

The participants in the PLATFORM project are ERA-NETS, European Research Area Networks, and Joint Programming Initiatives, or JPIs, in both ERA-NETS and JPIs, EU Member States coordinate, and sometimes National Research Funding, to other researchers across Europe to work together on solving problems and creating knowledge for an innovative and competitive EU economy.

The PLATFORM project invited the EIP-AGRI service point to co-organise one of the workshop sessions to explore potential synergies and collaboration between the ERA-NETS, JPIs and the EIP-AGRI. The participants were very interested in the EIP-AGRI, and explored how they could integrate the interactive innovation model advocated by the



The Platform for Knowledge Based Bio-Economy relevant ERA-NETS.  
The EU funded EIP project PLATFORM brings together the ERA-NETS and JPIs in the area of the knowledge based bio-economy with the aim to enhance exchange and cooperation between ERA actions and to strengthen the impact of ERA-NETS in the European bio-economy. The work of PLATFORM includes mutual learning and networking, outreach and interlinking, and establishing a forum for overarching strategic discussion. An annual workshop and other project meetings are key facilitating events towards these aims and include transnational and discussion sessions towards a common vision and roadmap.

## Looking for inspiration?

Farmers across Europe have experimented on their farms for centuries, testing out new, innovative ideas and methods. Inspiration can be drawn from these experiences. Sharing what has been found will help the agri-, food and forestry sectors to continue to Research Coexisting systems and setting up pilot initiatives which involve farmers, advisors, researchers, food companies and universities. These present to be an essential way to compensate for the lack of knowledge and experience sharing between farmers. Farmers that are given the opportunity to test for real-world success of the idea, innovation often carries about as a result. Here are some how potential solutions illustrated by real stories...

### Fine-tuning composting techniques

### WASTE NOT, WANT NOT FINLAND

### Carbon and nutrient management with industrial by-products

Representatives from the pulp and paper industry, the farmers and researchers developed the solution together. "It is important that industrial products do not contain chemicals that are dangerous later on in the chain", says Aino Savola, Forest Group expert farmer, researcher and entrepreneur Juuso Joonas, who initiated the project, says: "We saw a significant improvement in the soil quality. This technique gives value to waste products and contributes to meeting the carbon balance objectives". Juuso Joonas, project initiator

In Finland, a solution has been developed to use by-products from the pulp and paper industry as compost in organic farming to manage carbon and nutrients in the soil. Adding slowly decomposable wood fibres it can help restore exhausted soils, add water and nutrient holding capacity and improve microbiological activity. Putting waste from industry to good use is also a great environmental benefit.

How information? [Waste management website](#)

## Horizon 2020: Find out funding possibilities for innovation in agriculture and forestry

The updated EIP-AGRI factsheet on Horizon 2020 presents the 2015 programme with a particular focus on the current call and the topics which are most interesting for innovation in agriculture and forestry. Download this fact sheet below.

### A smart way to irrigate crops – and save water

EIP-AGRI researchers have developed a smart irrigation system that calculates the exact amount of water crops need each day. The technology allows farmers to save time, fuel and water and achieve the best yield possible. [Watch the film](#), [download](#)

Find more success stories on [Hortibus 2020 website](#).

### Looking for partners to start a project with Horizon 2020 funding?

The new EIP-AGRI website has a "Meeting Point" where you can search for interesting projects, people, and projects that are already running. This is a great starting point to find potential partners for Horizon 2020 or explore for inspiration. You can also register and submit your innovative ideas, meeting projects and needs for research funding.

### The EIP-AGRI Lighthouse group called "Horizon Search Horizon 2020: Find security, sustainable agriculture, forestry and bio-energy" has more than 50 members and could also help you search for the right network for your project.

### Are you looking for funding to test your innovative ideas?

In addition to the Horizon 2020 calls and the Rural Development Funding, there are also several other opportunities. It may EIP-AGRI fact sheet below a closer look at some of these funding opportunities:

- European Regional Development Fund (ERDF)
- Cooperating (business) regions through INTERREG
- European Central Fund (ECF)
- ERDF-ITC
- ERDF-ITC
- Funding by Young Entrepreneurs (YES) – Erasmus
- European Investment Fund (EIF)

## Innovative Solutions for Organic Farmers in the EU

### Optimising Arable Yields

The EIP-AGRI website has a "Meeting Point" where you can search for interesting projects, people, and projects that are already running. This is a great starting point to find potential partners for Horizon 2020 or explore for inspiration. You can also register and submit your innovative ideas, meeting projects and needs for research funding.

# EIP-AGRI Focus Groups







**EIP-AGRI Focus Groups  
state of play March 2016**

**State of play**


<b>Animal husbandry reducing antibiotic use in pig farming</b>	<a href="#">Final report - Brochure</a>
<b>Benchmarking farm performance</b>	Ongoing – 1 <sup>st</sup> meeting
<b>Ecological Focus Areas</b>	<a href="#">Final report</a>
<b>Fertiliser efficiency</b>	Ongoing - 2 <sup>nd</sup> meeting
<b>Genetic resources</b>	<a href="#">Final report</a> - <a href="#">Factsheet</a>
<b>High Nature Value</b>	<a href="#">Final report</a> - <a href="#">Factsheet</a>
<b>IPM for brassica</b>	<a href="#">Final report</a>
<b>Livestock emissions</b>	Ongoing – 1 <sup>st</sup> meeting
<b>Mixed farming systems</b>	Ongoing – 1 <sup>st</sup> meeting
<b>New entrants into farming</b>	Ongoing - 2 <sup>nd</sup> meeting
<b>Organic farming</b>	<a href="#">Final report</a> - <a href="#">Factsheet</a> <a href="#">Brochure</a>
<b>Permanent grassland</b>	Ongoing - 2 <sup>nd</sup> meeting
<b>Precision farming</b>	<a href="#">Final report</a> - <a href="#">Factsheet</a>
<b>Protein crops</b>	<a href="#">Final report</a> – <a href="#">Brochure</a> – <a href="#">infographic (Estonian)</a>
<b>Short food supply chains</b>	<a href="#">Final report</a> – <a href="#">Fact sheet</a>
<b>Soil organic matter content in Mediterranean regions</b>	<a href="#">Final report</a> - <a href="#">Factsheet</a>
<b>Soil-borne diseases</b>	<a href="#">Final report</a> - <a href="#">Factsheet</a>
<b>Water &amp; agriculture</b>	Ongoing - 2 <sup>nd</sup> meeting



# Newly published FG reports



**EIP-AGRI Focus Group**  
**IPM for Brassica**  
FINAL REPORT  
JANUARY 2016


1



funded by 



**EIP-AGRI Focus Group**  
**Sustainable High Nature Value (HNV) farming**  
FINAL REPORT  
JANUARY 2016


1

funded by 



**EIP-AGRI Focus Group**  
**Benefits of landscape features for arable crop production**  
FINAL REPORT  
7 MARCH 2016

1

funded by 

# Focus Group

## Mainstreaming Precision Farming

How to organise data capture and processing to mainstream precision farming to optimise inputs and yield?

Jacob van den Borne is a precision farmer from the Netherlands. He is a member of the EIP-AGRI Focus Group on Precision Farming and feels strongly about sharing knowledge for agricultural innovation.

[Read an interview and watch the video](#)

# Focus Group

## Mainstreaming Precision Farming

### Ideas for Operational Groups:

- Involving farmers in technology development and knowledge exchange
- Investment risks and standardisation
- Needs of small and medium-sized farms

### Research needs from practice:

- Appropriate data management and analysis
- As applied maps
- Low-cost robust machinery and software
- *New business models for data management*

More information: [factsheet](#)

More inspirational ideas:

[complying with environmental regulations when spraying crops](#)

[dealing with pests from the air](#)

funded by the European Commission

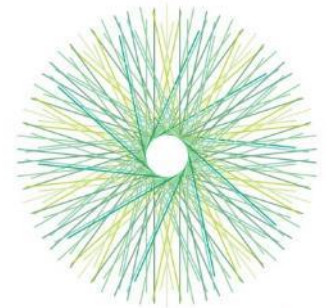


# More EIP-AGRI Focus Groups

18, plus call open till 21 March for 2 new ones – see [FG webpage](#)

## Examples:

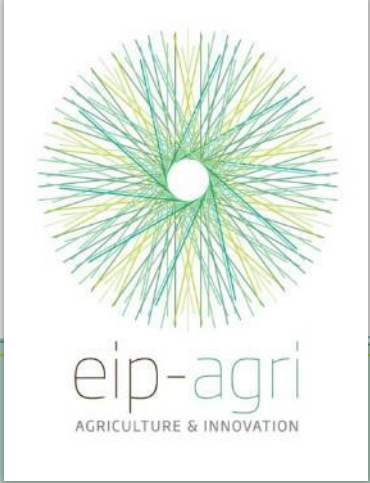
- [High Nature Value Farming](#)
  - [Report](#) and [fact sheet](#)
- [Organic arable farming](#)
  - [Report](#), [brochure](#), [fact sheet](#)
- [IPM for soil-borne diseases](#)
  - [Report](#) and [multi languages factsheet+infographic](#)



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# EIP-AGRI workshop results for the green economy



## Circular Economy

Finland October 2015

**EIP-AGRI Workshop 'Opportunities for Agriculture and Forestry in the Circular Economy'**  
WORKSHOP REPORT  
28-29 OCTOBER 2015

**Opportunities for agriculture and forestry in the circular economy**

The circular bio economy is one where farmers and foresters take a leading role in developing the bio economy and making it more sustainable by integrating circular activities and natural cycles into existing and new practices.

Other economy policy measures (policy at the centre of economic decision-making and practice) ensuring added value and making sure that resources are maximised, long as possible so that they can be re-used again or again. Available water and mineral elements and resources are re-used, efficiency is improved and costs reduced.

Key messages and findings:

- Agri-food systems are the main source of raw materials for the bio economy.
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The main messages and findings are summarised in the end of the workshop to the beginning of a new, making feedback loops. This can be achieved at a variety of scales, whether it be within the field, or through connecting a range of individuals, businesses and sectors to make efficient use of resources over broader geographical areas.

Key messages and findings are summarised in the end of the workshop to the beginning of a new, making feedback loops. This can be achieved at a variety of scales, whether it be within the field, or through connecting a range of individuals, businesses and sectors to make efficient use of resources over broader geographical areas.

## Biosecurity

Brussels January 2015

**EIP-AGRI Workshop Biosecurity at farm level Challenges for innovation**  
WORKSHOP REPORT  
22-27 JANUARY 2015

## Bio-economy

Italy May 2015

**EIP-AGRI Workshop Building new biomass supply chains for the bio-based economy**  
WORKSHOP REPORT  
27-28 MAY 2015

**Building new biomass supply chains for the bio-based economy**

Set-up and foster cooperation mechanisms between agriculture, forestry and industry

Bio-based products can have a lower environmental and climate footprint if products based on renewable raw materials. These raw materials can be produced on the farm and used in various ways, for instance as a feedstock for the production of bio-based products. This can be achieved by using the agricultural and forestry biomass to produce bio-based products and services. These raw materials can be used for the production of bio-based products and services. These raw materials can be used for the production of bio-based products and services.

The EIP-AGRI led the **EIP-AGRI Workshop Building new biomass supply chains for the bio-based economy** on 27-28 May 2015 in Italy. The main objective of the workshop was to identify the main challenges and opportunities for the development of bio-based products and services. The workshop was held in the framework of the EIP-AGRI pilot actions in Italy. The workshop was held in the framework of the EIP-AGRI pilot actions in Italy.

## Protein crops

Hungary October 2014

**EIP-AGRI Workshop 'How to make protein crops profitable in the EU?'**  
WORKSHOP REPORT  
13 FEBRUARY 2015

**Competitive protein crops**  
Why Europe needs a value chain

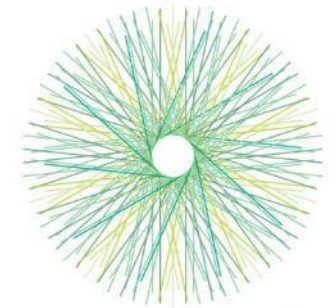
**Konkurentsivõimelised proteiinirikkad kultuurid**  
Miks Euroopa vajab väärtusahelat?

**Proteínginosas competitivas**  
Porque a Europa precisa de uma cadeia de valor



# EIP-AGRI Workshop 'Building new biomass supply chains for the bio-based economy'

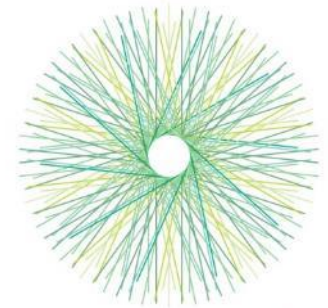
27-28 May, Sardinia



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- The overall objective = **foster co-operation mechanisms between agriculture/forestry and industry** to guarantee:
  - a steady and reliable supply of renewable raw materials for the industry without compromising sustainability;
  - and a fair income for the farmer and forest holders.
- **Case study & field visit:** Coldiretti/Novamont agreement for the supply of Matrica plant
- **~90 participants** from 23 member states





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# Challenges

Agricultural residues/  
Processing co-products

- **Resistance from farmers**
- Lack of technical and non-technical know-how: **soil depletion**, access to funding opportunities
- **Complexity of supply chain:** logistics, organisation and management
- Lack of info on **successful business cases**
- **Lack of communication and cooperation** between actors
- **Policy framework** not coherent and stable
- Lack of **market pool** incentives

Industrial crops

- **Low and unstable agronomic performance** of dedicated crops
- Lack of technical know-how (**agronomic practices, logistics**)
- Cultural barriers, lack of trust between actors
- Few opportunities of **off-take agreements**
- **Competition of land use** (push for marginal lands without clear specifications)

Forestry residues/  
Processing co-products

- Technical barriers only in some MS (e.g. harvesting techniques, logistics)
- **Structure of ownership of forests** (parcelling-out, small size of exploitations)
- **Lack of demand** for forestry residues/co-products
- **Competition with cheaper imported wood**

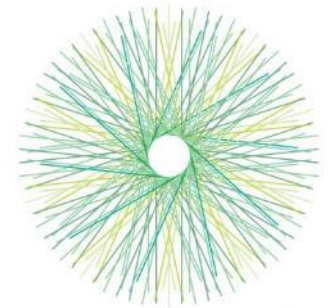
# Solutions and Tools

Common understanding/  
Building trust

- **Strategy and vision** on bioeconomy at regional level (with clear policy leadership)
- **Database/information**
- **Communication tools** towards primary sector to explain opportunities (e.g. key role of cooperatives), industry and others
- **Platforms with relevant actors of biomass value-chains** (long-term & substantial support needed)-> clear objectives/activities

Concrete forms of cooperation

- **Strengthening national platforms, clusters, Local Action Groups** around specific themes with all relevant actors
- **Innovation support services** needed (e.g. facilitators)
- **Agreements** (to share risks and profits)
- **Joint Ventures, PPP**
- Demonstration farms and **producers groups** around topics (e.g. biomass collection, waste mgt)
- **RD support** (OGs, networks)
- **Access to finance, investors**



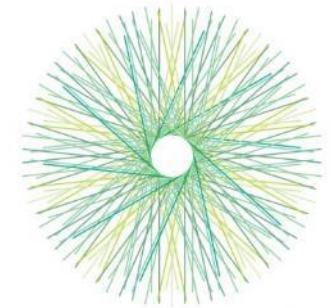
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Improving logistics

- **Technical innovation** for storage, transport and biomass densification
- **Tailored-made** solutions
- Demonstrate **environmental, social and economic added-value** of biomass value-chains (case studies)
- **Short supply chains** with small/medium-scale units
- **Training and vocational development**

# EIP-AGRI Workshop: 'Opportunities for Agriculture and Forestry in the Circular Economy'

- 28-29 October 2015, Naantali, Finland
- Some **80 participants** from 24 MS (+ Norway)  
*Farmers/foresters, advisors, agri-food and bio-based industries, public authorities, NGOs, researchers*
- **Overall objective** of the event was to bring relevant partners together and to discuss the role of agriculture and forestry in the circular economy, to identify challenges and opportunities and to define concrete actions
- **6 case studies** (well established or just in their start-up phase). **Field visit:** *BIOvakka biogas plant*: nutrient recycling and energy production from waste and by-products (e.g. manure)
- **Further information:** [EIP-AGRI workshop webpage](#)

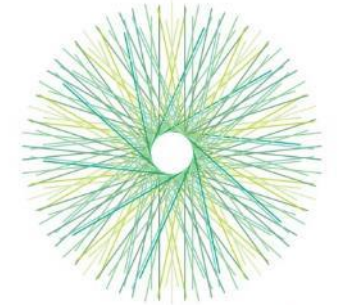


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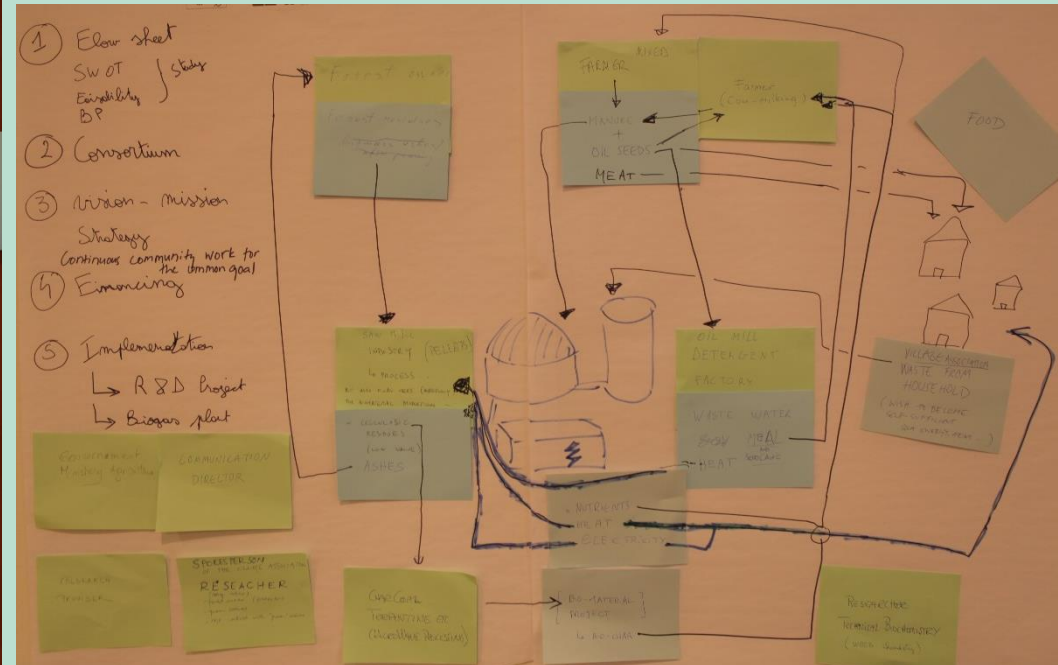


# EIP-AGRI Workshop: 'Opportunities for Agriculture and Forestry in the Circular Economy'

Participatory, 'hands-on' approach through business cases



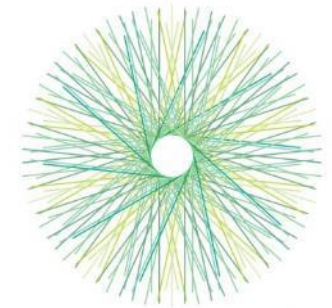
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# EIP-AGRI Workshop: 'Opportunities for Agriculture and Forestry in the Circular Economy'

## Some **key messages**:

- Bio-economy, 'green engine' of the circular-economy
- Common vision shared by **all actors**, needs to be tailored to the local/regional context (opportunities/resources)
- Leadership and coordination are key to deliver
- Requires initial investment and support to develop new ideas, markets and systems
- Farmers and foresters central in the process
- Clarification / harmonisation of standards is needed
- Key role of cooperation & networking for boosting CE



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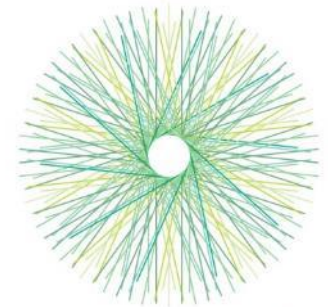
# Thank you for your attention!

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**Register today!**



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