

# The European Innovation Partnership (EIP) „Agricultural Productivity and Sustainability“

## Moving Innovation in Agriculture Ahead !



SWG SCAR-AKIS – Tallinn – 7 December 2017

Inge Van Oost - DG Agriculture and Rural Development

# 1. EIP Workprogramme Sep-Dec 2017 networking activities

- Focus Groups (finished or running): state of play
- Agri Innovation Summit Lisbon 11-12 Oct
- Workshop “Innovation in the supply chain: Creating value together”
- Website development, including OG and MA projects



EIP-AGRI Focus Group		State of play
1	<b>Organic farming</b> – Optimising arable yields	<a href="#">Final report</a> <a href="#">Factsheet</a> <a href="#">Brochure</a>
2	<b>Protein crops</b>	<a href="#">Final report</a> <a href="#">Brochure</a>
3	<b>Animal husbandry</b> - Reducing antibiotic use in pig farming	<a href="#">Final report</a> <a href="#">Brochure</a>
4	<b>Genetic resources</b> – Cooperation models	<a href="#">Final report</a> <a href="#">Factsheet</a> <a href="#">Brochure</a>
5	<b>Soil organic matter</b> content in Mediterranean regions	<a href="#">Final report</a> <a href="#">Factsheet</a> <a href="#">Brochure*</a>
6	<b>IPM for <i>Brassica</i></b>	<a href="#">Final report</a> <a href="#">Brochure</a>
7	<b>High Nature Value</b> – Farming profitability	<a href="#">Final report</a> <a href="#">Factsheet</a>
8	Mainstreaming <b>precision farming</b>	<a href="#">Final report</a> <a href="#">Factsheet</a>
9	Profitability of <b>permanent grassland</b>	<a href="#">Final report</a> <a href="#">Factsheet</a>
10	<b>Fertiliser efficiency</b> – Focus on horticulture in open field	<a href="#">Final report</a> <a href="#">Factsheet</a>
11	Optimising profitability of crop production through <b>Ecological Focus Areas</b>	<a href="#">Final report</a> <a href="#">Factsheet</a>
12	Innovative <b>short food supply chain</b> management	<a href="#">Final report</a> <a href="#">Factsheet</a>



EIP-AGRI Focus Group		State of play
13	IPM practices for <b>soil-borne diseases</b>	<a href="#">Final report</a> <a href="#">Factsheet</a> <a href="#">Brochure*</a>
14	<b>New entrants into farming</b>	<a href="#">Final report</a> <a href="#">Factsheets</a>
15	<b>Water &amp; agriculture</b>	<a href="#">Final report</a> <a href="#">Factsheet</a> <a href="#">Brochure</a>
16	<b>Mixed farming systems:</b> Livestock/cash crops	<a href="#">Final report</a> <a href="#">Factsheet</a>
17	<b>Benchmarking farm</b> productivity and sustainability <b>performance</b>	<a href="#">Final report</a> <a href="#">Factsheet</a>
18	<b>Livestock emissions</b> – Reducing emissions from cattle farming	<a href="#">Final report</a> <a href="#">Factsheet</a>
19	<b>Nutrient recycling</b>	<b>Ongoing</b> 2 <sup>nd</sup> meeting held
20	Sustainable mobilisation of <b>forest biomass</b>	<b>Ongoing</b> 2 <sup>nd</sup> meeting held
21	Robust and resilient <b>dairy production systems</b>	<b>Ongoing</b> 2 <sup>nd</sup> meeting held
22	<b>Agroforestry:</b> introducing woody vegetation into specialised crop and livestock systems	<b>Ongoing</b> 2 <sup>nd</sup> meeting held
23	<b>Diseases and Pests in Viticulture</b>	<b>Ongoing</b> 2 <sup>nd</sup> meeting held

\* The brochure 'Soil organic matter matters' covers topics from the 'Soil organic matter' and the 'Soil-borne diseases' Focus Groups.



<b>EIP-AGRI Focus Group 2017</b>		<b>State of play</b>
<b>24</b>	New <b>forest</b> practices and tools for <b>adaptation and mitigation of climate change</b>	<b>Ongoing</b> 2 <sup>nd</sup> meeting held
<b>25</b>	<b>Grazing for carbon</b>	<b>Ongoing</b> 2 <sup>nd</sup> meeting held
<b>26</b>	<b>Moving from source to sink in arable farming</b>	<b>First meeting November 2017</b>
<b>27</b>	<b>Circular Horticulture</b>	<b>First meeting November 2017</b>
<b>28</b>	Enhancing production and use of <b>renewable energy on the farm</b>	<b>First meeting November 2017</b>

# ***Agri Innovation Summit 11-12 Oct 2017, Lisbon***

## **Day 1 : Poster sessions: 119 innovation projects (catalogue)**

### **Resource use (adaptation and mitigation) ◦Resource efficiency / water and energy / circular economy / fertilization**

- Agro-environment and climate change
- Genetic resources / climate change adaptation
- Plant protection / animal health and welfare

### **Management of farming, food and forestry systems & valorization of the territory ◦Agriculture products and food processing**

- Forest management and fire prevention
- Valorization of the territory and use of endogenous resources
- Sustainable management

### **Agriculture 4.0 and rural development ◦Digital entrepreneurship in rural areas**

- Precision farming
- Management tools to support farmers' decision-making
- Robotics / mechanization

<https://ec.europa.eu/eip/agriculture/event/agri-innovation-summit-2017>

# ***Agri Innovation Summit*** ***11-12 October 2017, Lisbon***

## **Day 2 : “Innovation - Shaping the future ”**

### **Policy day with keynotes, break-out sessions and conclusions on:**

- Digital opportunities for primary production
- Digital opportunities for agricultural value chains
- Strengthening links between research and practice in the agri-food sector
- Skills development: Education & training, advice, peer to peer exchange and networking
- Digitizing rural economies

**<https://ec.europa.eu/eip/agriculture/event/agri-innovation-summit-2017>**

# Agriculture 4.0

## Examples of OGs and other projects



AIS 2017 Poster sessions

# INNOVATION PROJECTS

PRECISION FARMING





**Operational Group:**  
Control of additional water use in crop production - situational, site-specific and automated (Precision Irrigation)  
*Steuerung der Zusatzwasseremission in der Pflanzenproduktion – Situativ, teilhochspezifisch und automatisiert*

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**Practical problem**

In the federal state of Brandenburg (Germany), irrigation of arable land is a measure to maintain agricultural value despite decreasing summer rainfalls. To avoid over-using the available water resources, however, a precise irrigation control needs to be developed and tested under local conditions.

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**Partners**

Type:	Name:
Research Institute:	Forschungsinstitut für Bergbauwissenschaften e.V.
Farms:	Großgörschen Adersbau GmbH; Agrarbetrieb Atzleben
Private companies:	Ingema Projektgesellschaft Dr. Gohring & Partner; Hydro-Air International Irrigation systems GmbH
Professional association:	Fachverband Bewässerungslandbau Mitteldeutschland

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**Project**

**Objectives:** Development of an economic solution for site-specific irrigation, which takes into account the actual water need of the crops. The potential of infrared thermography for precision irrigation control is evaluated in addition to traditional soil based approaches.

**Expected results:** An existing model for steering irrigation is adapted to site-specific irrigation control. The model results are automatically transferred to the steering unit of center pivots to help save labour resources. Since the steering approach is applied at farm scale and evaluated in cost-benefit analyses, we shall be able to develop a practical solution for precision irrigation for local farmers.

**Results so far/first lessons:** Two existing center pivots were modified to enable the site-specific application of irrigation water. We derived soil-based irrigation management zones and controlled the timing and amount of irrigation water with an offline prototype of our steering model. Moreover, we acquired aerial images at the infrared spectrum to derive crop canopy temperatures and to calculate crop water stress indices.

**Who will benefit:** Farmers, governmental and non-governmental institutions, scientists.

ERIC 66942016  
ERIC 21122219

Budget: 818.121 €

Contact Beate Zimmermann  
E-mail: [zimmermann@fs-ev.de](mailto:zimmermann@fs-ev.de)



AGRI INNOVATION SUMMIT 2017  
More information: [www.agri-innovation-summit2017.com](http://www.agri-innovation-summit2017.com)

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## Project catalogue

### Agri Innovation Summit (Lisbon 11-12.10.17)





# ***Agri Innovation Summit 11-12 October 2017, Lisbon***



# ***EIP-AGRI workshop***

## ***Innovation in the supply chain: Creating value together 6-7 February 2018 - Lyon, France***

More than 70 projects already are dealing with questions on new supply chains and commercialisation. By bringing these groups together we aim to promote **cross-border knowledge exchange, networking and ongoing cooperation between Operational Groups, and between Operational Groups and relevant research activity**. The objectives for the workshop are to:

- Connect Operational Groups with each other and to relevant research/innovation activities.
- Exchange good practices.
- Identify common challenges and explore potential solutions.
- Promote ongoing cooperation beyond the workshop.

Building also on supply chain related MA H2020 projects, the EIP workshop 'Cities and Food – Connecting consumers and producers' (2016) and the Agri-Food SME workshop on 'collaboration on innovation along the supply chain' (2017)



**17 OCT 2017**  
**AGRI-FOOD SMES**  
**COLLABORATING**  
**FOR**  
**INNOVATION**  
**ALONG THE**  
**SUPPLY CHAIN**



# My EIP AGRI: tailored information at your fingertips



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SHARING KNOWLEDGE - CONNECTING PEOPLE - TACKLING CHALLENGES



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My EIP-AGRI

[Operational Groups](#)

[Thematic Networks](#)

[Multi-Actor Projects](#)

## My EIP-AGRI



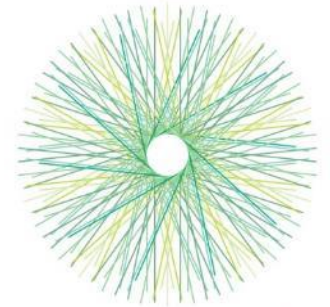
### Thematic Networks

Thematic networks are multi-actor projects which collect existing knowledge and best practices on a given theme to make it available in easily understandable formats for end-users such as farmers, foresters, and advisors. All Thematic Network information available here.

### Welcome to My EIP-AGRI

This is an on-line resource developed to support your information/guidance needs. Simply select the type of project you are involved or interested in to access your portal to all the information you need.

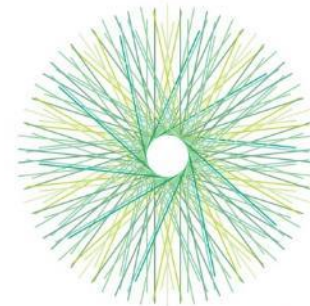
# EIP-AGRI Network: Orientations for 2018



eip-agri  
AGRICULTURE & INNOVATION



# EIP-AGRI Network Priorities in 2018



eip agri

Fostering a thriving  
Agricultural  
**Innovation System**  
in the EU

Promoting  
innovation in  
**managing natural  
resources** and  
improving **farm  
resilience**



Strengthening  
**value chains** within  
a **circular,  
decarbonised bio-  
economy**

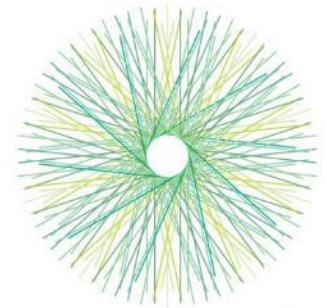


funded by



European  
Commission

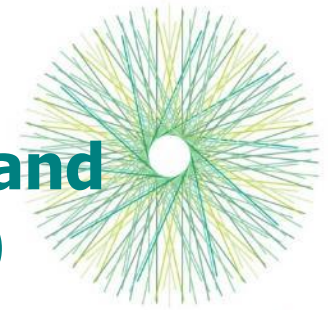
# 1. Fostering a thriving Agricultural **Innovation** **System** in the EU



- **Seminar EIP implementation:** Upscaling OG results and learning from EIP-AGRI implementation, including feeding the discussion about the new CAP
- **Communicating** the digital transformation in agriculture through a Digitisation **Toolbox** (communicate the outcomes of past digitisation activities in a simple and accessible way)
- **AKIS Workshop:** Access the digital transformation in agriculture: the role of AKIS. Promoting the communication through AKISs: esp. advisors and NRNs, including feeding the discussion about the new CAP (strategic plans)
- **Seminar:** Multi-level digital strategies for agriculture and rural areas: promote multi-level strategic plans



## 2. Promoting innovation in managing natural resources and improving farm resilience (1)

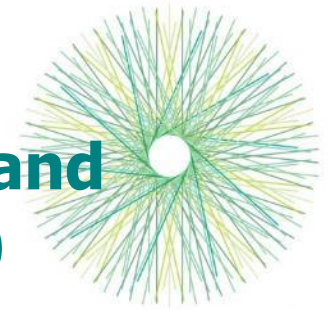


- **Workshop: Innovative water management in agriculture:** Gathering water-related OGs and exchange information from different groups working on the topic (e.g. EIP water, Commission Water Task-Force, ENRD Thematic Group, OECD... ). Territorial approaches in agricultural water management and water quality at landscape level (e.g. examples how farmers work together at catchment level with advisors' support)
- **Focus Group 'Anti Microbial Resistance - poultry sector':** improve welfare, options for organic livestock and breeding, including link with consumers' expectations and how farmers can better meet such expectations and gain market or better prices (short chain).





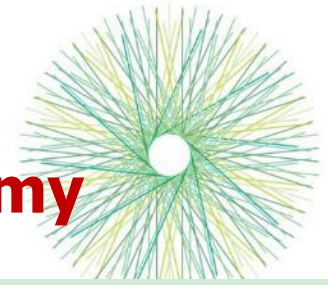
## 2. Promoting innovation in managing natural resources and improving farm resilience (2)



- **Focus Group 'Non-chemical weed management'**. Focus on arable cropping systems and non-annual weeds: crop management, tillage/non tillage vs C-sequestration and herbicides use - Complementary crops or practices that help to diminish pest risk. E.g. Intercrop, agroforestry. Weeding technologies, tools and digital aspects specific to the topic
- **Focus Group: Protecting agricultural productions from frost damage.** Focus on permanent crops and new climate patterns, Innovative practices to be identified in connection with specific crops (apple trees, vineyards, cherry trees...). Use of new digital technologies to protect from frost damages. Geographical approach taking into account climate change patterns.



### 3. Strengthening value chains within a circular, decarbonised bio-economy



- **Workshop 'Opportunities for farm diversification in the circular bio-economy'**: optimizing the use of biomass on the farm, diversification as a way of managing risks, new uses of biomass from agricultural supply chains; new products, new markets and related logistics, involvement of new entrants and digital aspects specific to the topic. Follow-up to the EIP workshop on circular economy held in 2015
- **Focus Group 'New feed for livestock'**: Which new types of feed (e.g. based on farm residues, alternative proteins, following the approach of the circular economy) How do livestock adapt to new feed?
- **Focus Group 'Reducing food loss on the farm'** : focus on perishable food products (fresh fruit and vegetables) and how to organise the value chain (from harvest to delivery) in order to minimise losses (quality, harvesting, handling, storing...).

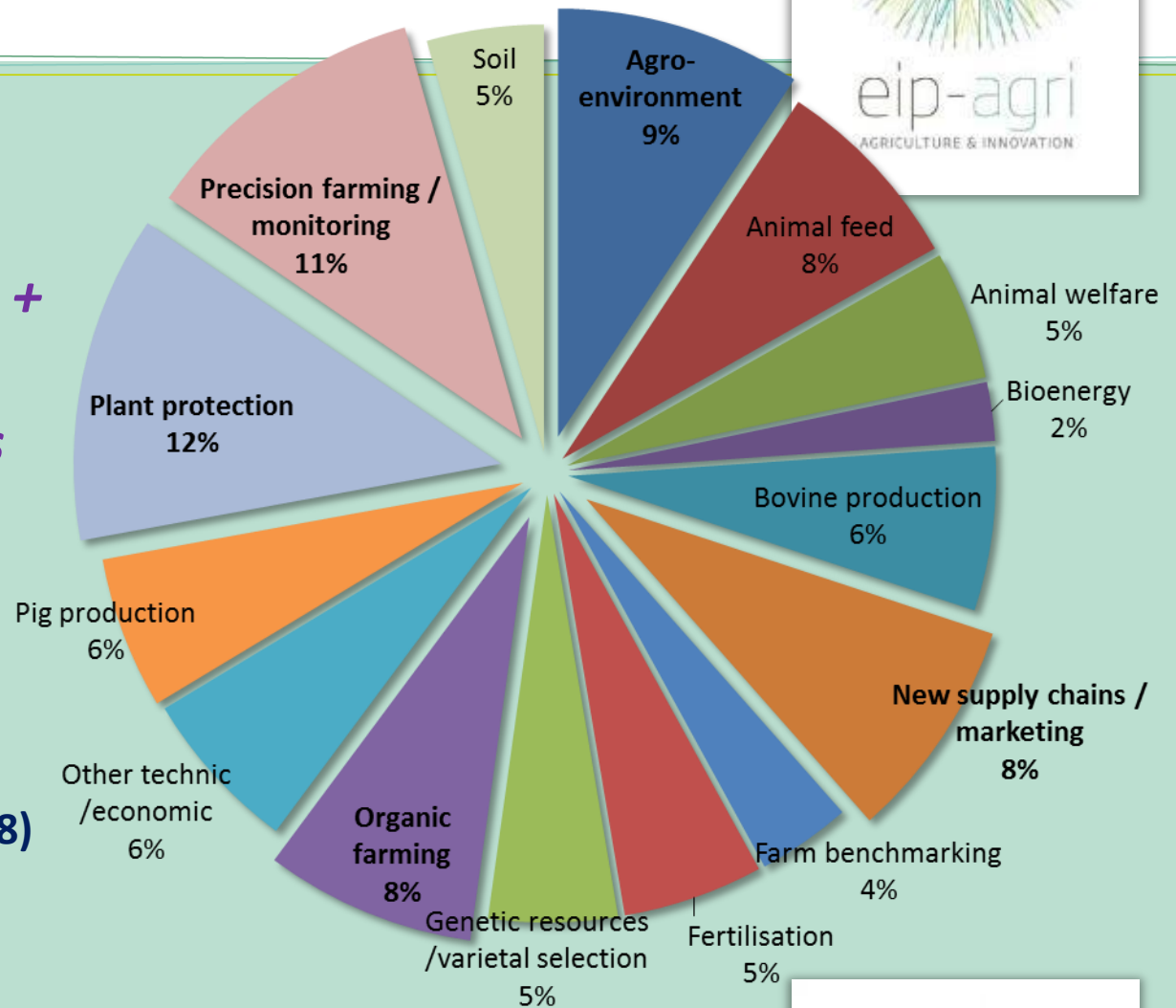
## 2. Rural Development Programmes

# Running OG projects



**Top 5 in the scope:**  
*main subjects of OGs + MA projects being linked into EIP events*

- Plant protection
- Precision farming (...)
- Agro-environment
- New supply chains (Feb 2018)
- Organic farming (June 2017)



# More Operational Group examples

A selection of OG projects presented at past EIP-AGRI events



EIP-AGRI Workshop  
Operational Groups: First experiences  
20 – 21 April 2016

OPERATIONAL GROUPS  
REPRESENTED AT THE WORKSHOP



EIP-AGRI Seminar  
"Moving EIP-AGRI implementation forward"  
10 – 11 May 2017

OPERATIONAL GROUPS  
REPRESENTED AT THE SEMINAR



EIP-AGRI WORKSHOP  
Organic is Operational  
14-15 JUNE 2017

Some of the Operational Groups and Innovative projects  
represented at the workshop

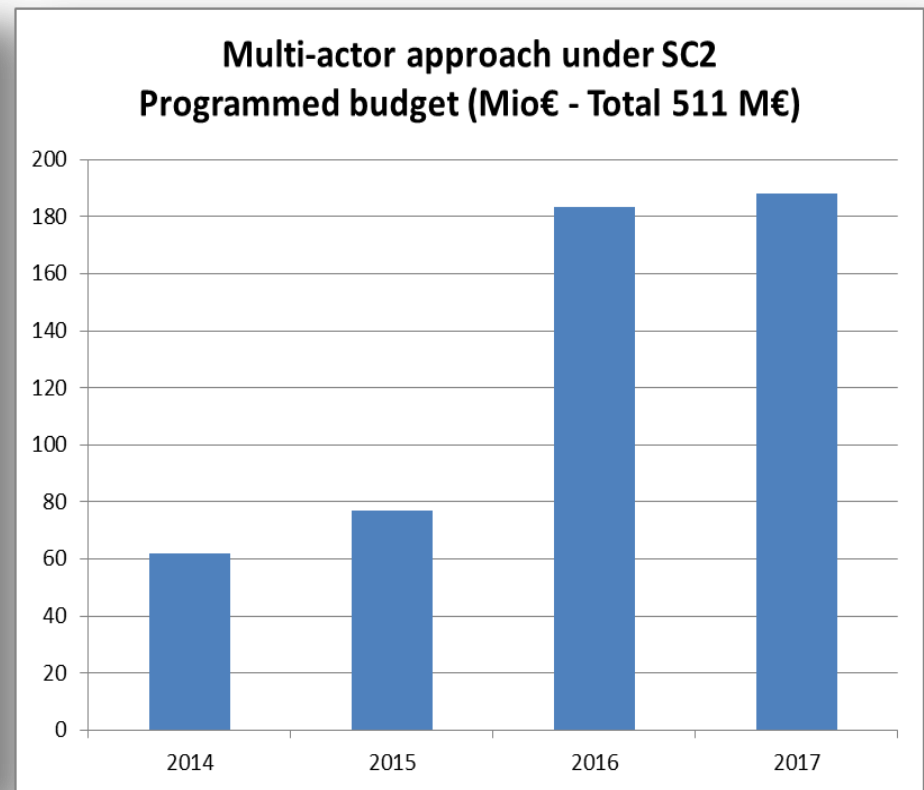
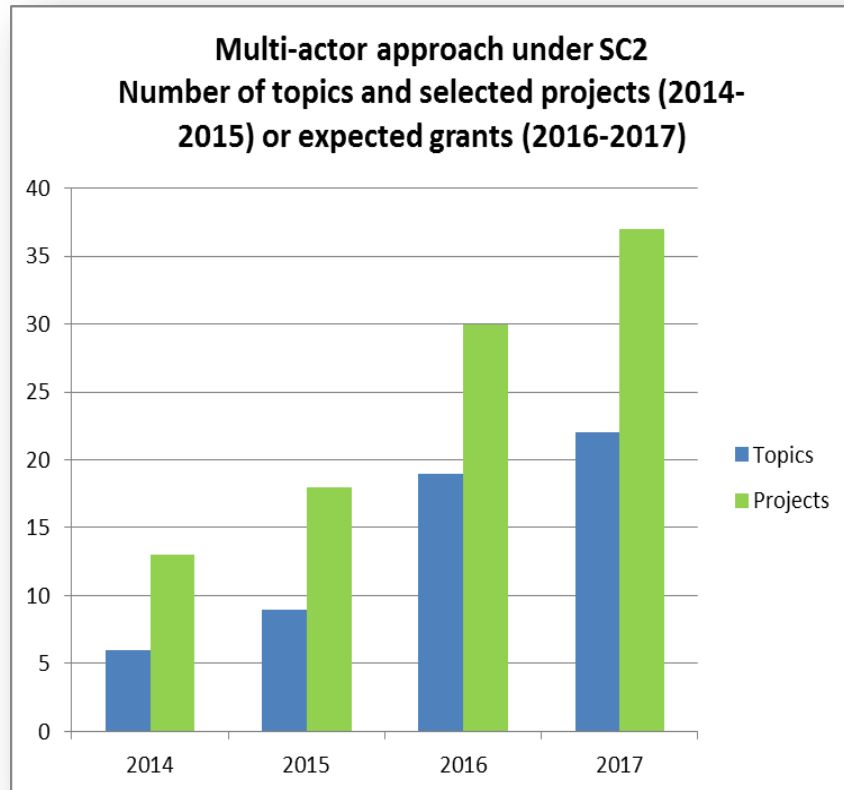


## 3. Horizon 2020 and Multi-actor projects

- What's **new** in WP 2018-2020?
- **8 March 2018** – cross-fertilisation day for Multi-actor project coordinators (MCE premises)
- **9 March 2018** – showcasing H2020 Thematic networks (COPA premises)

## More multi-actor topics/projects in Horizon 2020 WP 2018-2020 **another 500 mio Euro – 100 MA projects (incl TNs)**

WPs 2014-2017 Horizon 2020 Multi-actor approach :  
 500 mio Euro – 80 projects



## ***H2020 Multi-actor approach requirements***

The two most important principles as integrated in detailed "MA requirements" in **H2020 WP introduction p. 9** (these form an integral part of the topic, so also part of evaluation scoring):

- to **focus on end-users' problems/opportunities** and develop innovative solutions which cover **real needs**. End-users like farmers, foresters or businesses will be more motivated to use the project results, because they were incorporated in generating them and therefore feel "**co-ownership**"
- to bring together the **most relevant partners** with the needed **complementary type of knowledge** which helps solving problems and tackling opportunities e.g.: farmers, advisors, researchers, suppliers, processors, agencies and/or other actors, who co-operate and co-innovate **in project activities from the beginning till the end.**

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-food\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-food_en.pdf)



## All H2020 Multi-Actor projects:

- ❖ **End-users (OF THE PROJECT RESULTS !)** and practitioners are to be involved, not as a study-object, but in view of **using their entrepreneurial skills and tacit knowledge** for developing solutions and creating (⇔ applied research)
- ❖ **"co-ownership"** of results, which speeds up the acceptance and dissemination of new ideas. (= > forming part of the consortium: *"...composition of the consortium and the description of the project concept should reflect..."*)
- ❖ The project should result in practical knowledge made easily understandable and accessible, which **feeds into the existing dissemination channels most consulted by end-users in countries.**
- ❖ For **EU wide** communication, this knowledge should also be assembled into a **substantial number of 'practice abstracts' in the common EIP format**

# TREASURE, a Horizon 2020 multi-actor project on traditional resources for agricultural diversity and the food chain



Each partner (academia or non-academia) with a clear and visible role in the project i.e. various actors (e.g. farmers) involved from work planning to dissemination, demonstration



Photos from on-going experiments in Croatia, France, Slovenia

Field experiments conducted in „real life“ situations working directly with farmers e.g. linked TP => **cross-fertilisation**

**of knowledge/ideas**

Marjeta Čandek-Potokar KIS (Agricultural Institute of Slovenia)

**Agriculture R&I conference, Brussels, 26-28 January 2016**  
<https://ec.europa.eu/programmes/horizon2020/en/designing-path-conference-eu-agricultural-ri-videos-presentations-and-outcomes>



Funded by European Union  
Horizon 2020  
Grant agreement No 634476

## RUR-15-2018 – Thematic networks **compiling knowledge ready for practice**

- ❖ If duly substantiated, proposals **may focus on widening an existing TN**, be it **content-wise** or in terms of **geographical coverage**, eg through twinning or cross-border exchange visits (take period into account)
- ❖ End product should be **substantial "appealing" end-user** knowledge (e.g. some 100 EIP PAs, + photos, videos, demos etc)
- ❖ **Synergies sought with EIP Operational Groups** or interactive innovation groups (could be *if useful-* other ESIF project)
- ❖ Use **main trusted dissemination channels**, and also feed into education/training



## 22 H2020 bottom-up Thematic Networks so far (1)

calls 2014-2016 – **a complementary set of themes (sectors)**

RUR 10 - 2016	CERERE	Cereals: organic/low input cereal food systems for biodiversity and quality (production, processing, marketing)
RUR 10 - 2016	Eu PiG	Pig husbandry: health management, precision production, welfare and meat quality
RUR 10 - 2016	Inno4Grass	Productive grasslands: profitability and environmental services
RUR 10 - 2016	SheepNet	Improving sheep productivity
ISIB 2 - 2014	Winetwork	Wine diseases: Grapevine Trunk Disease and Flavescence dorée
ISIB 2 - 2014	OKNetArable	Organic agriculture - arable crops
ISIB 2 - 2014	Hennovation	Animal welfare hens
ISIB 2 - 2015	4D4F	Data and sensor driven decision making on dairy farms
ISIB 2 - 2015	EuroDairy	Practice-based innovations in dairy farming: resource efficiency, Biodiversity, Animal care, and Socio-economic resilience
ISIB 2 - 2015	EUFRUIT	Fruit: cultivar development, minimize residues, storage and fruit quality, sustainability of production systems



## 22 H2020 bottom-up Thematic Networks so far (2) a complementary set of themes (cross-cutting themes)

RUR 10 - 2016	SKIN	Stimulating innovation and good practices in short supply chains
RUR 10 - 2016	AFINET	Agroforestry: sylvoarable and sylvopastural systems' design, management and profitability
ISIB 2 - 2014	Agri-Spin	Innovation brokering methods
ISIB 2 - 2015	AGRIFORVALOR	Valorization of biomass side-streams from agriculture and forest
ISIB 2 - 2015	Smart-AKIS	Smart Farming Technology: Management Information Systems, Precision Agriculture and Agriculture automation and robotics
ISIB 2 - 2015	HNV-Link	Support HNV farmlands through knowledge and innovation
WATER 4B - 2015	FERTINNOWA	Optimize water and nutrient use efficiency: dbase on innovative technologies and practices for fertigation of horticultural crops

**Showcasing Thematic Networks on 9 March 2018**



**2017 H2020 bottom-up Thematic Networks**  
**another complementary set of themes**  
**(cross-cutting themes)**

<b>ENABLING</b>	<b>Upscaling biomass production and pre-processing</b> for bio-based value chains
<b>INCREDible</b>	<b>Non Wood Forest Products:</b> Cork, Resins and Edibles in the Mediterranean basin
<b>NEWBIE</b>	<b>New Entrant</b> netWork: Business models for Innovation, entrepreneurship and resilience
<b>OK-Net EcoFeed</b>	<b>Organic</b> Knowledge Network on <b>Monogastric Animal Feed (pigs, broilers, hens)</b>
<b>PANACEA</b>	<b>Non-food Crops'</b> penetration path

**Short film explaining how interactive MA & thematic networks work:** <https://youtu.be/mVsW4--ex0M>



## Where can you find more info?

- **EIP brochure on multi-actor projects: NEW**

- [https://ec.europa.eu/eip/agriculture/sites/agri-eip/files/eip-agri\\_brochure\\_multi-actor\\_projects\\_2017\\_en\\_web.pdf](https://ec.europa.eu/eip/agriculture/sites/agri-eip/files/eip-agri_brochure_multi-actor_projects_2017_en_web.pdf)

- **EIP brochure on thematic networks & practice abstracts**

- [http://ec.europa.eu/eip/agriculture/sites/agri-eip/files/eip-agri\\_brochure\\_thematic\\_networks\\_2016\\_en\\_web.pdf](http://ec.europa.eu/eip/agriculture/sites/agri-eip/files/eip-agri_brochure_thematic_networks_2016_en_web.pdf)

- **EIP common format for practice abstracts**

- <https://ec.europa.eu/eip/agriculture/en/content/eip-agri-common-format>

- **Videostreamed seminar on drafting practice abstracts:**

- <http://www.ncp-biohorizon.net/events?cmd=showDetail&id=33>

- **Links to NRNs:** National Rural Networks can help in **partner search between** H2020 consortia and EIP Operational Groups

- [http://enrd.ec.europa.eu/enrd-static/networks-and-networking/nrn-information/en/nrn-information\\_en.html](http://enrd.ec.europa.eu/enrd-static/networks-and-networking/nrn-information/en/nrn-information_en.html)

# How to build a successful Horizon 2020 multi-actor project? (Brochure infographics)



Target **real-life needs, problems or opportunities**



Choose consortium partners with **complementary types of knowledge and skills** (for "cross-fertilisation")



including **farmers, foresters or other end-users** to benefit from their entrepreneurial skills



# How to build a successful Horizon 2020 multi-actor project?



Involve **"multipliers"** - people who can bring in practical knowledge and help disseminate the results in the long term



Set up a plan with a **clear role for each of the different partners**



Organise **knowledge exchange activities** between the partners

# How to build a successful Horizon 2020 multi-actor project?



Bridge the gap between research and practice **by facilitating discussions**

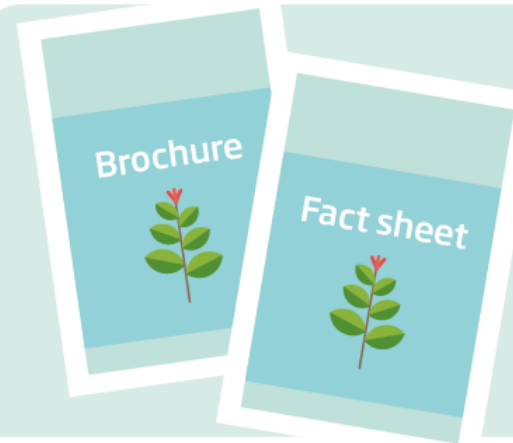


Involve interactive innovation groups such as **EIP-AGRI Operational Groups**



All partners must **co-create and co-decide throughout the project**

# How to build a successful Horizon 2020 multi-actor project?



**Produce practical information** which feeds into the most common **existing dissemination channels** ...



... and write easily understandable **practice abstracts** in the common **EIP format**

## 4. Future of the EIP-AGRI:

What do we have and where do we go?

### **EIP evaluation study:**

[https://ec.europa.eu/agriculture/sites/agriculture/files/external-studies/2016/eip-2016/eval\\_en.pdf](https://ec.europa.eu/agriculture/sites/agriculture/files/external-studies/2016/eip-2016/eval_en.pdf)

### **SWG SCAR-AKIS Policy Brief on the Future of Advisory Services:**

[https://ec.europa.eu/eip/agriculture/sites/agriculture/files/policy\\_brief\\_on\\_the\\_future\\_of\\_advisory\\_services\\_scar\\_akis\\_06102017.pdf](https://ec.europa.eu/eip/agriculture/sites/agriculture/files/policy_brief_on_the_future_of_advisory_services_scar_akis_06102017.pdf)



## **Period 2014-2020:**

### **a set of AKIS outputs from OG and MA projects**

- **All OGs + MA projects** make **practice abstracts**
- **22+ Thematic Networks (= 38 in 7 years) also**
- **Demonstration farms:** 2 running projects making demo farms **inventory + best practices** for demonstration (RUR 11-2016)
- **1 on-farm EU wide network** (RUR 12-2017) **on demo** activities around 10 themes, based on the inventories and best practices being collected
- **Research on best practices for multi-actor projects** (RUR 16-2017) + **cross-fertilisation meeting 8 March 2018**
- Work on **education** and **practice abstracts** (RUR 13-2017)
- **2 advisory networks 2018 & 2019:** 1 dedicated to stepping up to digital + 1 focusing on spreading interactive innovation methods

# An EU wide EIP network, supported under Rural development: Linking CAP with H2020 policy

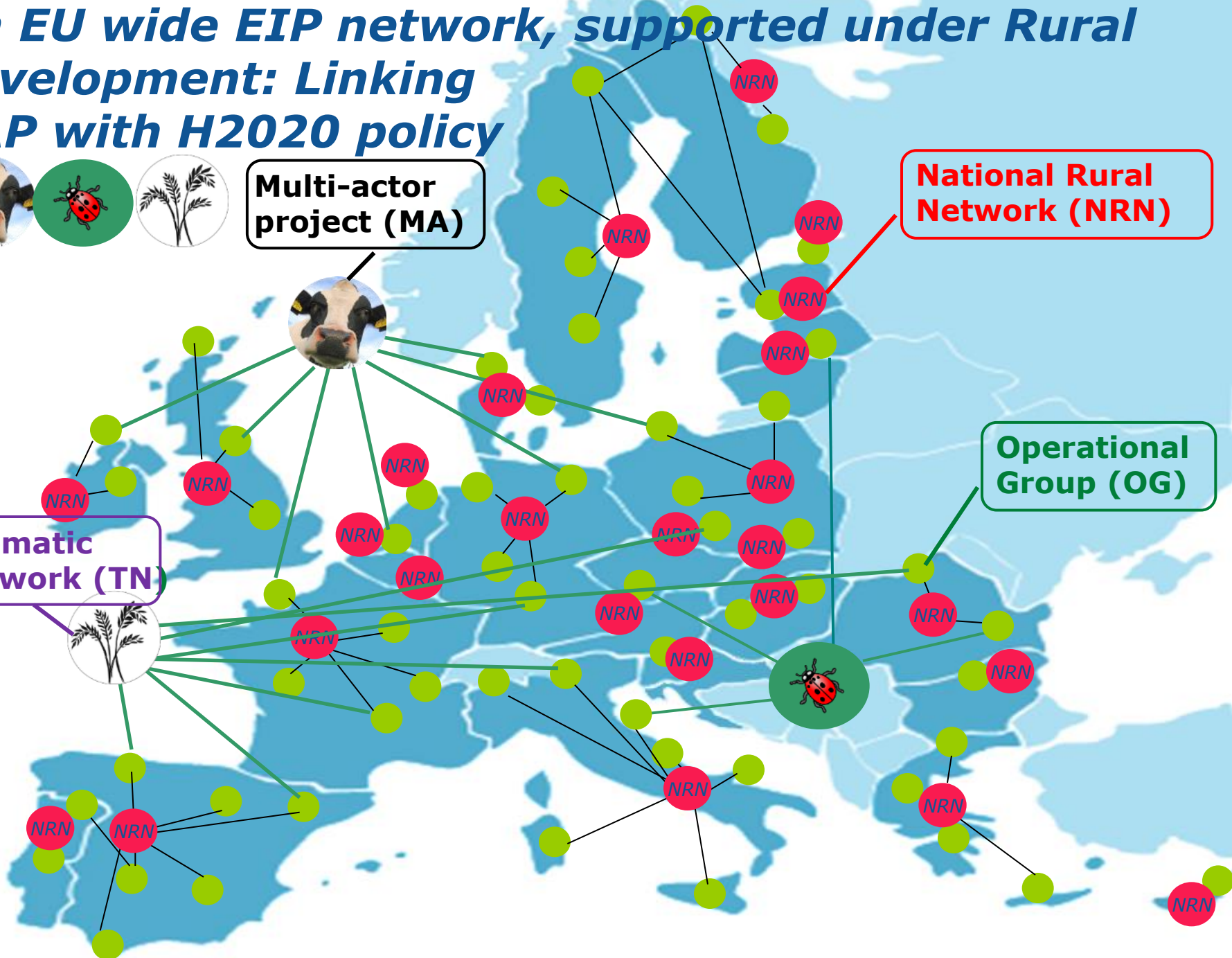


**Multi-actor project (MA)**

**National Rural Network (NRN)**

**Operational Group (OG)**

**Thematic Network (TN)**



“The next big thing  
will be a lot of small  
things”

21 September 2016  
(Thomas Lomme)

## **CAP post 2020 Communication "The future of food and farming": involves also the future for AKISs**

**"The European Innovation Partnership for Agricultural Productivity and Sustainability (EIP-AGRI) and the European Innovation Partnership on Water have proven their value in mobilising the agricultural sector for innovation. It has funded multi-participant pilot projects and is networking across Europe to make new knowledge generally available. Its success depends on the combined performance of advisors, agricultural training and educational systems, researchers and farmer organisations often referred to as the **Agricultural Knowledge and Innovation System (AKIS)** which operates very differently from one Member States to another. The role of the farm advisor stands out as particularly important. **A modern CAP should support the strengthening of farm advisory services within the AKIS systems. This should become a condition for the approval of CAP Strategic plans.**"**

Read the Communication:

[https://ec.europa.eu/agriculture/sites/agriculture/files/future-of-cap/future\\_of\\_food\\_and\\_farming\\_communication\\_en.pdf](https://ec.europa.eu/agriculture/sites/agriculture/files/future-of-cap/future_of_food_and_farming_communication_en.pdf)



# **CAP post 2020 Communication – The future of food and farming – Clarification memo on AKISs (1)**

**“Why does the CAP need to support innovation? What is the rationale?”**

*Agriculture and our rural areas face a number of challenges for which new solutions need to be found. **We need better advice and more innovation.** Public involvement in research and innovation is necessary to bridge the gap between rural areas in demand of digital innovations and **better connectivity** and providers of new technologies.*

***It makes sense to cooperate on research an innovation at EU level. By learning from each other in different parts of the EU we will develop better knowledge and will adopt innovation faster.***

Read the Memo:

[http://europa.eu/rapid/press-release MEMO-17-4842\\_en.htm](http://europa.eu/rapid/press-release_MEMO-17-4842_en.htm)

## ***CAP post 2020 Communication – The future of food and farming – Clarification memo on AKIS (2)***

### **“How will this new approach function in practice?”**

*The **Union** should set the basic policy parameters based on the **objectives of the CAP**, ...the already agreed objectives and targets on for instance the environment, climate change (COP 21), and a number of sustainable development goals.*

***Each Member State should establish a "CAP strategic plan", which would cover interventions in both pillar I and pillar II.** This plan will tailor CAP interventions to maximise their contribution to EU objectives taking better into account local conditions and needs, against such objectives and targets. At the same time, Member States would also have a greater say in designing the compliance and control framework applicable to beneficiaries (including controls and penalties).*

....

# **CAP post 2020 Communication – The future of food and farming – Clarification memo on AKIS (3)**

## **“How will this new approach function in practice?”**

*(continued)*

***These strategic plans would be prepared not in isolation but in the framework of a structured process and the Commission would assess and approve such plans.*** This would maximise the contribution of the CAP towards the EU priorities and objectives and the achievement of Member States' climate and energy targets. It would also ***enhance the EU added value and preserve a functioning agricultural internal market.***

*While Member States should bear greater responsibility and be more accountable as to how they meet the objectives and achieve agreed targets, the new approach will continue to **ensure a level playing field**, preserving the common nature and the two pillars of the policy.*

[http://europa.eu/rapid/press-release MEMO-17-4842\\_en.htm](http://europa.eu/rapid/press-release_MEMO-17-4842_en.htm)

# **CAP post 2020 Communication – The future of food and farming – Clarification memo on AKIS (4)**

## **“How will the future CAP support farmers in protecting the environment?”**

*As a foundation, farmers receiving income support from the CAP will have to apply various environment- and climate-friendly practices. Member States will determine the detail of these - in line with the need to meet EU-level objectives but also taking into account national, regional and local circumstances.*

*Eco-friendly action which goes beyond this **foundational** level of good practice will be supported through schemes which are **voluntary** for farmers - at a relatively basic level, and above that **more advanced schemes**.*

**The CAP will also place strong emphasis on unlocking the potential of *research, innovation, training and the use of advice* to improve care for the environment and climate, including through greater resource**

## ***CAP post 2020 Communication – The future of food and farming – Clarification memo on AKIS (5)***

**“How can the Commission encourage the setting-up of young farmers and generation renewal in the sector?”**

*Generational renewal should become a priority in a new policy framework, ...The CAP should give flexibility to Member States to develop tailor made schemes that reflect the specific needs of their young farmers.*

***The CAP strategic plans could include support for skills development, knowledge, innovation, business development and investment support.***

## ***CAP post 2020 – The future of food and farming – involves also the future for AKIS***

*The rationale for these sentences is that the efficiency and effectiveness of advisory services can best be upgraded by **improving their connections within the Agricultural Knowledge and Innovation Systems and sharing knowledge and innovative applications more intensively.***

*(See SWG SCAR-AKIS Policy Brief on the Future of Advisory services on advisor's future interactive competences, interconnections and roles)*

*[https://ec.europa.eu/eip/agriculture/sites/agri-eip/files/policy\\_brief\\_on\\_the\\_future\\_of\\_advisory\\_services\\_scar\\_akis\\_06102017.pdf](https://ec.europa.eu/eip/agriculture/sites/agri-eip/files/policy_brief_on_the_future_of_advisory_services_scar_akis_06102017.pdf)*

*To perform such an upgrade of advisory services, a **transition period is needed.** Such a **transition AKIS plan** will form a part of the **CAP Strategic Plans to be approved.***



# CAP post 2020

## CAP Strategic AKIS plans –

Discussion in SWG  
SCAR-AKIS on 7  
Dec 2017

Knowledge  
& innovation

Incentivising  
creativity and  
innovation by  
structuring  
knowledge flows  
and interaction

advisors

research

rural networks

# ***CAP post 2020 – The future of food and farming –*** **3 key actors in strengthened AKIS with stronger knowledge flows in and between MSs:**

**(1) Advisors** (broad concept but independent of commercial interests) – often closest to farmers, bring in and funnel needs from farmers/end-users and communicate back to them. Could also be repres. of ngos, farmers' org etc

2. Many kinds of people are so-called “advisor”. What should be the criteria for being considered an advisor?
  - 2.1. Impartial, having the competence and means to enhance the ability to change

Advice comes from an individual advisor, which may belong to an entity (private or public/small or big), with a conscious ambition to intervene so that the customer (broadly defined) improves his/her ability to change. The purpose is communication and an intervention in order to **support change**. This is only possible if the advisor has the competence and the means (f.i. financial resources) to do it. **The advisor should be impartial and not promoting a specific product or technology.**

One definition of extension/advisory services is that advisory services are 'conscious interventions in order to create better preconditions for **change**, carried through by an entity having the means and competence to do it'. Farmers may receive substantial and often valuable information from companies in the context of their commercial objectives. However, farmers need to be enabled to receive independent “advice” that is not part of a “product service” package.

[https://ec.europa.eu/eip/agriculture/sites/agri-eip/files/policy\\_brief\\_on\\_the\\_future\\_of\\_advisory\\_services\\_scar\\_akis\\_06102017.pdf](https://ec.europa.eu/eip/agriculture/sites/agri-eip/files/policy_brief_on_the_future_of_advisory_services_scar_akis_06102017.pdf)



# ***CAP post 2020 – The future of food and farming –*** **3 key actors in strengthened AKIS with stronger knowledge flows:**

**(2) Researchers** (broad concept but with a focus on impact on end-users) – bring in local/national science & networks

**(3) Networks** (again broad) reinforcing MS AKIS, and connecting with EU level AKIS - EIP/rural network):

- **Rural networks at national levels**
- **Rural networks/local at regional levels**
- **National/regional/EU Thematic networks**
- **Etc...?**

Bringing in and **translating** info from EU and other countries (in particular innovation projects OGs, MA, TN etc) and returning info from MS to EU to other MS

## ***Strengthening AKISs – Inspiration?***

### ***Examples of recent evolutions of strengthened AKIS, often induced by the EIP funding***

- Poland EIP network: A+N
- Hungary AKIS: R+A
- Ireland: R+A
- Slovakia: N + A
- France: R + A + N
- Wales Innovation Hub (EIP seminar May 2017):R+A
- Scotland Nov 2017 Innovation support service : R+A
- Etc...

## 5. Overview on digitisation activities

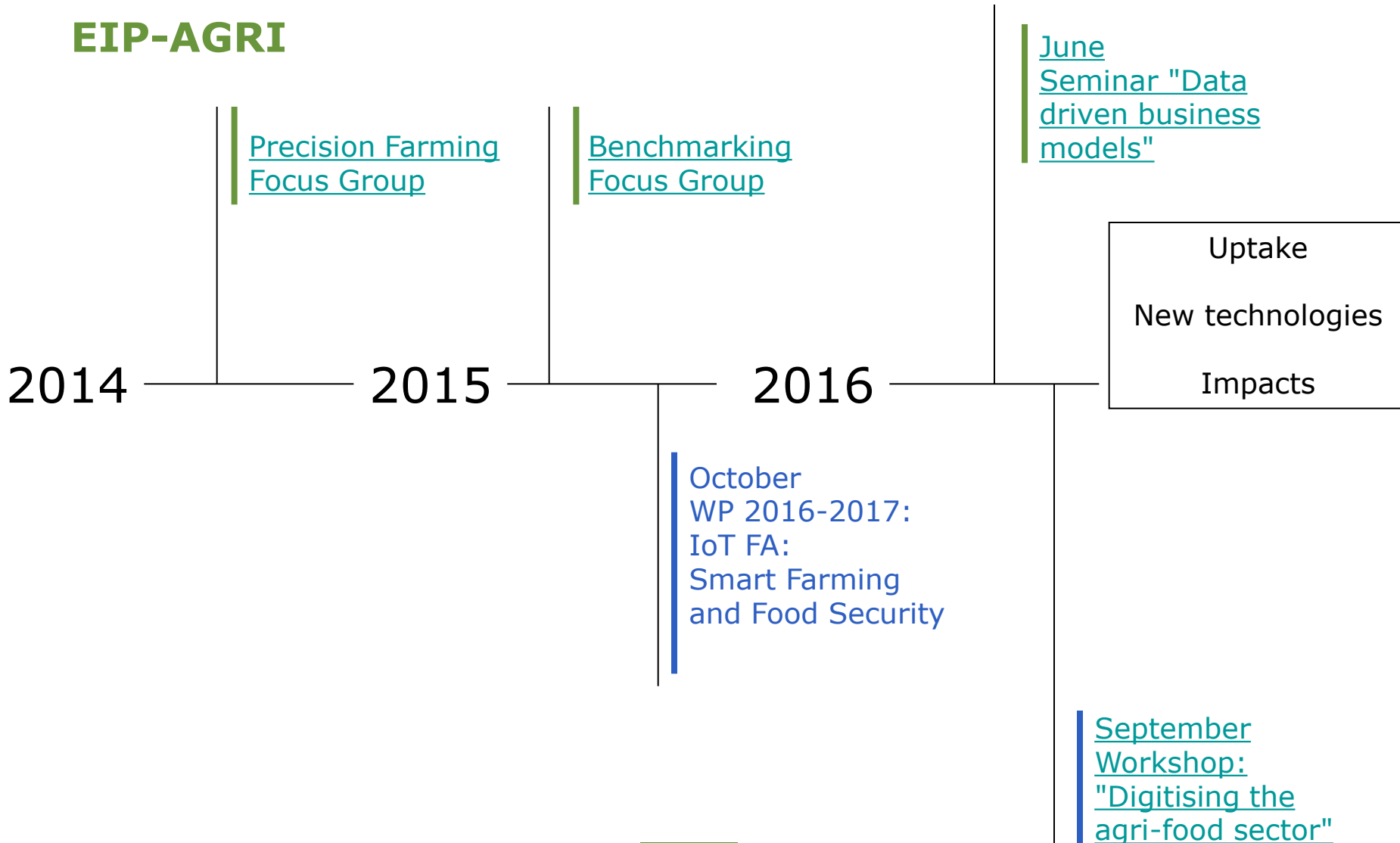
To support digital transformation in agriculture and rural areas

EIP-AGRI Brochure

**Shaping the digital (r)evolution in agriculture**

[https://ec.europa.eu/eip/agriculture/sites/agri-eip/files/eip-agri\\_brochure\\_digital\\_revolution\\_2017\\_en\\_web.pdf](https://ec.europa.eu/eip/agriculture/sites/agri-eip/files/eip-agri_brochure_digital_revolution_2017_en_web.pdf)

## EIP-AGRI



## EIP-AGRI

Uptake  
New technologies  
Impacts

2017

April  
Workshop "Data  
Sharing"

June  
Seminar "Digital  
Innovation Hubs:  
mainstreaming  
digital  
agriculture"

October  
Lisbon innovation  
Summit

2018

IoF2020 –  
Internet of Food  
2020 project

November  
"H2020  
Digitisation Day"

Publication WP  
2018-2020

# Horizon 2020 Workprogramme 2018-2020

## Uptake

\*DT-RUR-12-2018 - Digital Innovation Hubs for Agriculture

RUR-13-2018 - Enabling the farm advisor community to prepare farmers for the digital age

## Technology Development

RUR-14-2018 - Digital solutions and e-tools to modernise the CAP

\*\*DT-ICT-08-2019 - Agricultural digital integration platforms

\*\*DT-ICT-09-2020 - Digital service platforms for rural economies

## Impact

RUR-02-2018 - Socio-economic impacts of digitisation of agriculture and rural areas

\* **ICT:** Topics published under "**Information and Communication Technologies**" Work Programme

\* **DT:** Topics contributing to the **Focus Area** "Digitising and transforming European industry and services"

**RUR 2**  
**RUR 12**  
**RUR 13**  
**RUR 14**

- **+ SFS and BG topics** contributing to the Focus Area "Digitising and transforming EU industry and services: DT-SFS-14-2018, DT-SFS-26-2019, DT-BG-04-2018-2019

## ***Building an EU AKIS***

***Speed up creativity  
and practice  
application***

***Better connectivity and  
quicker circulation of  
information***

# ***Innovation is: an idea put into practice with success !***



*More information:*  
[www.eip-agri.eu](http://www.eip-agri.eu)

*Inge.Van-Oost@ec.europa.eu*

***Thank you for your attention!***



# Interactive innovation in practice!



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eip-agri  
AGRICULTURE & INNOVATION

Operational Groups  
Turning your idea into innovation  
Update 2016

Funded by European Commission

eip-agri  
AGRICULTURE & INNOVATION

Horizon 2020  
multi-actor projects

Funded by European Commission

eip-agri  
AGRICULTURE & INNOVATION

Thematic Networks under Horizon 2020  
Compiling knowledge ready for practice

Funded by European Commission

<https://ec.europa.eu/eip/agriculture/en/publications>




# For more information on OGs...

## Discover the dedicated OG area on the EIP website

European Commission > EIP-AGRI > My EIP-AGRI > Operational Groups

### Operational Groups



Inspirational ideas: SMART – an innovative look at sustainability performance

Through operational management, farmers can contribute to an improvement of sustainability while adapting their farm to future challenges

[Read more](#)

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ASK A QUESTION OR PROVIDE FEEDBACK

#### Relevant documents

EIP-AGRI DOCUMENT  
Operational Groups represented at the EIP-AGRI Seminar 'Moving EIP-AGRI implementation forward'

[Read more](#)

EIP-AGRI DOCUMENT  
Operational Groups represented at the EIP-AGRI Workshop 'Operational Groups: First experiences'

[Read more](#)

FACTSHEET  
EIP-AGRI Factsheet Operational Groups

[Read more](#)

BROCHURE  
EIP-AGRI Brochure Operational Groups Update 2016

[Read more](#)

REPORT  
EIP-AGRI Workshop 'Operational Groups: First experiences': Final report

[Read more](#)

[VIEW MORE](#)

#### Latest projects

SPAIN - 08 MAY 2017  
Control of Monilinia spp. in stone fruit: use of prediction models and cultural practices

[Read more](#)

GERMANY - 02 MAY 2017  
A new approach to fertilization and weed control in organic rapeseed production

[Read more](#)

GERMANY - 02 MAY 2017  
Development of a learning network to enhance awareness and willingness to improve health management in pig production to reduce the use of antibiotics

[Read more](#)

GERMANY - 02 MAY 2017

#### Key questions & information

EIP-AGRI Concept

Links to existing Operational Groups

What is innovation?

EIP-AGRI Operational Groups – basic principles

Innovation support services (including advisors with a focus on innovation)

EIP-AGRI networking

Links to other policies

EIP-AGRI common format

[FEATURE NEWS](#) [READ ALL NEWS](#)

<https://ec.europa.eu/eip/agriculture/en/my-eip-agri/operational-groups>

## OG brochure

<http://ec.europa.eu/eip/agriculture/en/content/eip-agri-brochure-operational-groups-update-2016>



## OG leaflets

<http://ec.europa.eu/eip/agriculture/en/content/eip-agri-workshop-operational-groups-first-experiences>

## OG Video



<https://youtu.be/7WwhGlocMO8>


# Now live: H2020 Multi-actor projects & Thematic Networks

Your single entry point to:

Relevant documents and publications

European Commission > EIP-AGRI > My EIP-AGRI > Multi-Actor Projects

## Multi-Actor Projects



Tools for environmental farm performance  
Read the final report from the EIP-AGRI workshop on 'Tools for environmental farm performance'

**News**

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Relevant documents

BROCHURE  
EIP-AGRI Brochure Operational Groups Update 2016  
Read more

BROCHURE  
EIP-AGRI Brochure on Funding opportunities under Horizon 2020 - 2017 Calls  
Read more

European Commission > EIP-AGRI > My EIP-AGRI > Thematic Networks

## Thematic Networks



Inspirational ideas: Concrete solutions for sustainability and animal welfare  
A number of companies are working on improving existing building solutions to reduce emissions and improve animal welfare

**Latest projects**

EUROPEAN UNION - 04 SEPTEMBER 2017  
Resource Preservation by Application of BIOeFACTORS in European Crop Production  
Read more

EUROPEAN UNION - 30 AUGUST 2017  
XF-ACTORS "Xylella Fastidiosa Active Containment Through a multidisciplinary-Oriented Research."

**Key questions & information**

EIP-AGRI Concept

Links to existing Operational Groups

EIP-AGRI Operational Groups – basic principles

EIP-AGRI networking

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Relevant documents

BROCHURE  
EIP-AGRI Brochure Operational Groups Update 2016  
Read more

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Read more

AUSTRIA, BELGIUM, BULGARIA, DENMARK, FRANCE, GERMANY, GREECE, HUNGARY, ITALY, LATVIA, NETHERLANDS, POLAND, PORTUGAL, ROMANIA, SPAIN, UNITED KINGDOM, WORLD WIDE - 07 JULY 2017  
Pooling funding streams to boost interactive innovation

**Key questions & information**

EIP-AGRI Concept

Links to existing Operational Groups

EIP-AGRI Operational Groups – basic principles

EIP-AGRI networking

Links to other policies

EIP-AGRI common format

Pooling funding streams to boost interactive innovation

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Relevant documents

BROCHURE  
EIP-AGRI Brochure Operational Groups Update 2016  
Read more

BROCHURE  
EIP-AGRI Brochure on Thematic Networks under Horizon 2020  
Read more

BROCHURE  
EIP-AGRI Brochure on Participatory approaches for agricultural innovation  
Read more

VIEW MORE

Latest projects

Key questions & Information

*Also: quick access to H2020 projects from the EIP home page*

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- Horizon 2020**
- Thematic networks
- Multi-actor projects

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LATEST NEWS & EVENTS

Call for abstracts on agro-biodiversity – deadline 15 September

The deadline for submitting an abstract for the workshop "Experiences of agro-biodiversity valorisation in Europe" has been extended to 15 Sep

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Read more

FEATURE NEWS

THE ONE STOP SHOP FOR AGRICULTURAL INNOVATION IN EUROPE

POU



# Shaping the digital (r)evolution in agriculture

## EC framework How?

- Encouraging use of digital technologies
  - New skills
  - Cost benefit analysis tools
  - Broadband internet
  - Digital Innovation Hubs
  - Interactive innovation projects
- Developing new technologies
- Dealing with impact on society

**EIP-AGRI brochure**

funded by the European Commission

