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 Work programme 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
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* The brochure ‘Soil organic matter matters’ covers topics from the ‘Soil organic matter’ and the ‘Soil-borne diseases’ Focus Groups.
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<th>EIP-AGRI Focus Group 2017</th>
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</table>
| 24 New **forest** practices and tools for **adaptation and mitigation of climate change** | Ongoing  
2nd meeting held |
| 25 **Grazing for carbon** | Ongoing  
2nd meeting held |
| 26 **Moving from source to sink in arable farming** | First meeting  
November 2017 |
| 27 **Circular Horticulture** | First meeting  
November 2017 |
| 28 **Enhancing production and use of renewable energy on the farm** | First meeting  
November 2017 |
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

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

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)
AGRI-FOOD SMES

COLLABORATING FOR INNOVATION ALONG THE SUPPLY CHAIN
My EIP AGRI: tailored information at your fingertips

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 Priorities in 2018

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
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)

From initial Oct 2016 clustering covering 231 OGs – new clustering planned early 2018
More Operational Group examples

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

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

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)

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

Agriculture R&I conference, Brussels, 26-28 January 2016

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
<table>
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<tr>
<th>Projects</th>
<th>Topics</th>
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<td>CERERE</td>
<td>Cereals: organic/low input cereal food systems for biodiversity and quality (production, processing, marketing)</td>
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<tr>
<td>Eu PiG</td>
<td>Pig husbandry: health management, precision production, welfare and meat quality</td>
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<tr>
<td>Inno4Grass</td>
<td>Productive grasslands: profitability and environmental services</td>
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<tr>
<td>SheepNet</td>
<td>Improving sheep productivity</td>
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<td>Winetwork</td>
<td>Wine diseases: Grapevine Trunk Disease and Flavescence dorée</td>
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<td>OKNetArable</td>
<td>Organic agriculture - arable crops</td>
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<td>Hennovation</td>
<td>Animal welfare hens</td>
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<td>4D4F</td>
<td>Data and sensor driven decision making on dairy farms</td>
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<tr>
<td>EuroDairy</td>
<td>Practice-based innovations in dairy farming: resource efficiency, Biodiversity, Animal care, and Socio-economic resilience</td>
</tr>
<tr>
<td>EUFRUIT</td>
<td>Fruit: cultivar development, minimize residues, storage and fruit quality, sustainability of production systems</td>
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<td>H2020 bottom-up Thematic Networks so far (2)</td>
<td>a complementary set of themes (cross-cutting themes)</td>
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<td>RUR 10 - 2016</td>
<td>SKIN</td>
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<td>WATER 4B - 2015</td>
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**Showcasing Thematic Networks on 9 March 2018**
2017 H2020 bottom-up Thematic Networks
another complementary set of themes (cross-cutting themes)

<table>
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<th>ENABLING</th>
<th>Upscaling biomass production and pre-processing for bio-based value chains</th>
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<td>INCREdible</td>
<td>Non Wood Forest Products: Cork, Resins and Edibles in the Mediterranean basin</td>
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<td>NEWBIE</td>
<td>New Entrant netWork: Business models for Innovation, entrepreneurship and resilience</td>
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<td>OK-Net EcoFeed</td>
<td>Organic Knowledge Network on Monogastric Animal Feed (pigs, broilers, hens)</td>
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<tr>
<td>PANACEA</td>
<td>Non-food Crops’ penetration path</td>
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Short film explaining how interactive MA & thematic networks work: [https://youtu.be/mVsW4--ex0M](https://youtu.be/mVsW4--ex0M)
Where can you find more info?

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

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

• **EIP common format for practice abstracts**
  - [https://ec.europa.eu/eip/agriculture/en/content/eip-agri-common-format](https://ec.europa.eu/eipaigiricri-en/content/eip-agri-common-format)

• **Videostreamed seminar on drafting practice abstracts:**
  - [http://www.ncp-biohorizon.net/events?cmd=showDetail&id=33](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
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**

Involves 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?

Illustrate how the project complements existing research and best practices

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:**

**SWG SCAR-AKIS Policy Brief on the Future of Advisory Services:**
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 Lommee)
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:
"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:

“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).
“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.

“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**
"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.


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

Incentivising creativity and innovation by structuring knowledge flows and interaction.
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.

**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
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

EIP-AGRI

2014
Precision Farming Focus Group

2015
Benchmarking Focus Group

2016
October
WP 2016-2017: IoT FA: Smart Farming and Food Security

June
Seminar "Data driven business models"

September
Workshop: "Digitising the agri-food sector"

Uptake
New technologies
Impacts
EIP-AGRI

Uptake
New technologies
Impacts

2017

April Workshop "Data Sharing"

IoF2020 – Internet of Food 2020 project

2018

June Seminar "Digital Innovation Hubs: mainstreaming digital agriculture"

October Lisbon innovation Summit

November "H2020 Digitisation Day"

Publication WP 2018-2020
**Uptake**

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

**Technology Development**

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

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* 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

Inge.Van-Oost@ec.europa.eu

Thank you for your attention!
Interactive innovation in practice!

For more information on OGs...

Discover the dedicated OG area on the EIP website

OG brochure

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

OG Video
https://youtu.be/7WhhGlocMO8

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