

The European Innovation Partnership (EIP) „Agricultural Productivity and Sustainability“ Moving Innovation in Agriculture Ahead !



AKIS SWG – 6-7 October 2015

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1. EIP Workprogramme activities

Focus groups 2013

1. Organic farming (optimizing arable yields) **brochure published Sep 2014**
2. Protein crops report **brochure published Feb 2015**
3. Animal husbandry (reduction of anti-biotic/pig sector) **brochure published Jan 2015**
4. Genetic resources **report published July 2015**
5. Integrated pest management (IPM) **report Oct 2015**
6. Organic matter content of soils: **report published Jan 2015**

Focus groups 2014

First wave (launched 11 March 2014): all meetings finished,
all in finalisation phase

- 7. High Nature Value (HNV) farming profitability
- 8. Mainstreaming precision farming
- 9. Profitability of permanent grassland
- 10. Fertiliser efficiency – focus on horticulture in open field

Second wave (launched July 2014): all meetings finished,
all in finalisation phase

- 11. Optimising yields through ecological focus areas
- 12. Alternative/ innovative supply chains
- 13. IPM practices for soil disease suppression

Focus groups 2015

First wave launched 16 March 2015

- 14. New entrants into farming: lessons to foster innovation and entrepreneurship: First meeting 18-19 June 2015, second meeting Nov 2015
- 15. Water & agriculture: adaptive strategies at farm level: First meeting 25-26 June 2015, second meeting Nov 2015

Second wave: call launched July 2015

- 16. Emissions from livestock production: start November
- 17. Agroforestry/mixed systems/farm diversification: start November
- 18. Benchmarking farm performance (on sustainability): start December

EIP - Workshops

22-23 January 2015 (Brussels): Interactive workshop on Biosecurity in the EU

27-28 May 2015 (Sardegna IT): Building new biomass supply chains for the bio-based economy – **report available**

Circular economy / waste management / reducing food waste: **28-29 October 2015**

First experiences with Operational Groups: **20-21 January 2016**

Seminar 2015

3-4 December 2015 - Dublin

Knowledge systems and interactive innovation:

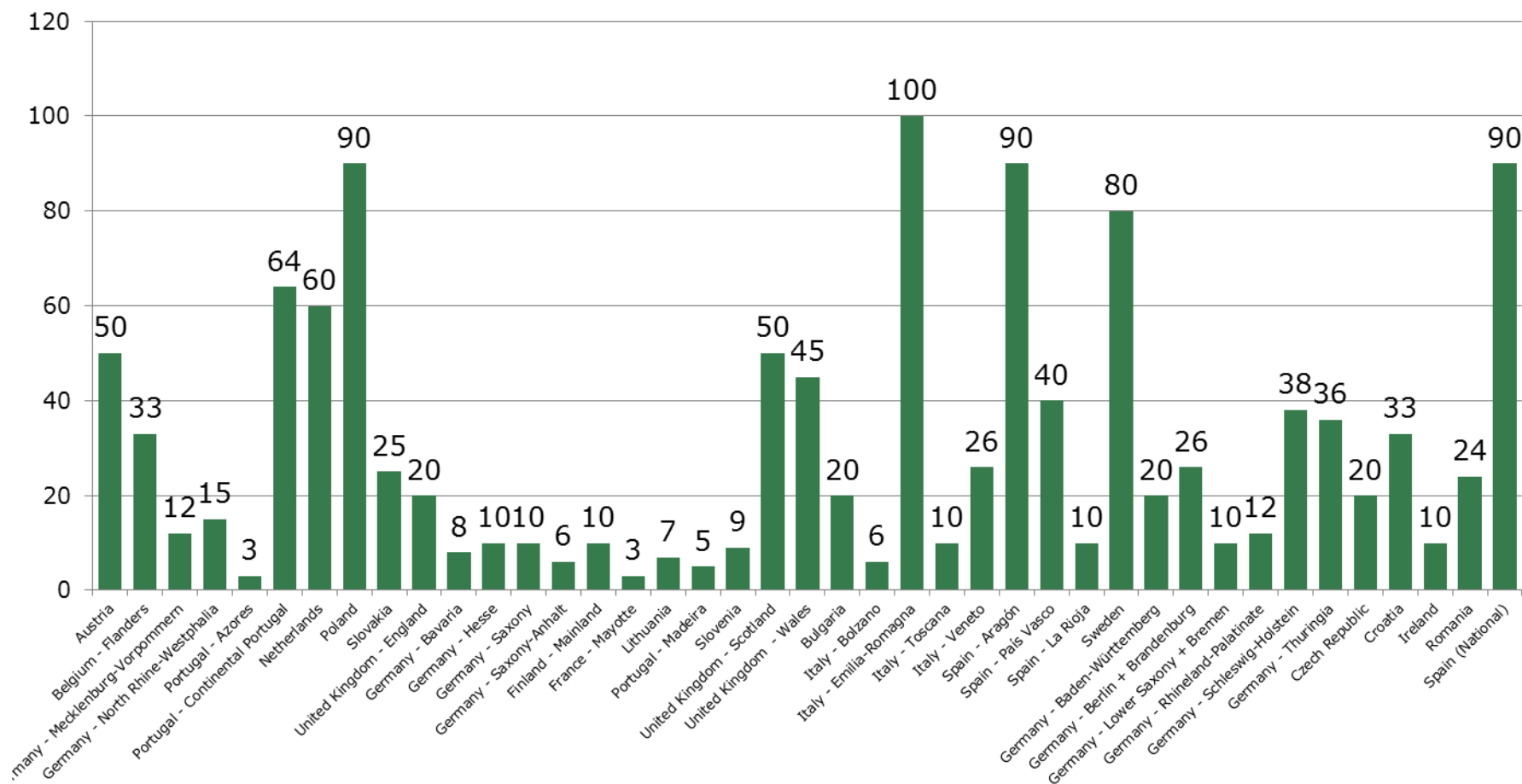
Promoting Creativity and Learning through
Agricultural Knowledge Systems and Interactive
Innovation

2. Rural Development Programmes

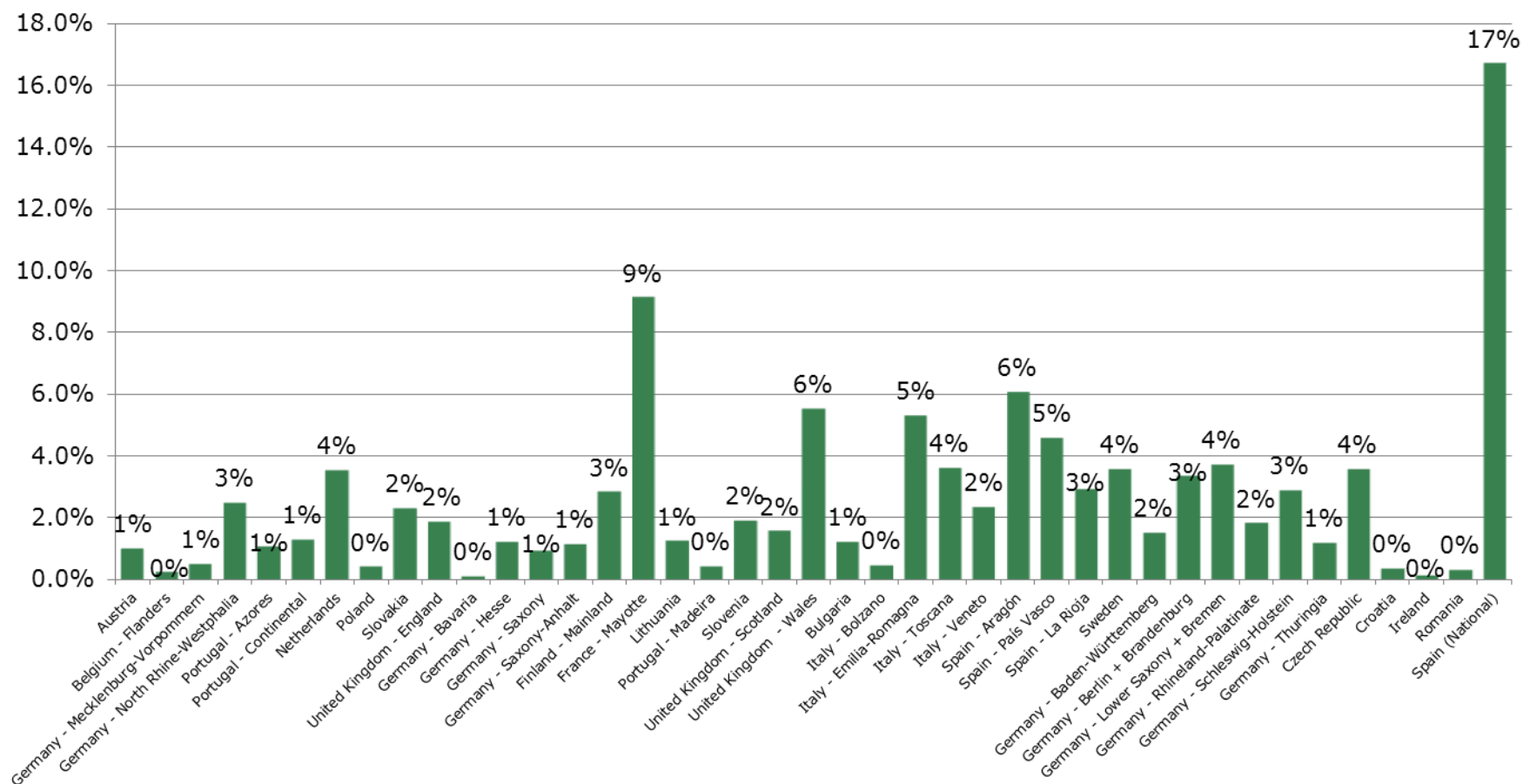
Rural Development Programmes

- Around 90 MS/regions will be implementing the EIP
- 87 of 118 RDPs (incl. framework and NRN programmes) adopted between December 2014 and September 2015
- Completed in 22 MS for 81,8% of the total budget
- Rest to be approved at the latest by end 2015
- http://ec.europa.eu/agriculture/rural-development-2014-2020/country-files/common/rdp-approved_en.pdf
- The EIP Common format for EIP OGs has been developed in SFC, the IT tool for feedback from MSs' RDPs: input will come from all OGs in all RD programming areas (useful for H2020 consortia)

Number of Operational Groups till end May 2015



Share of the cooperation measure in the total RDP EAFRD budget (approved RDPs 2014-2020) – till end May 2015



3. Horizon 2020

- 24 September: NCP webinar on the multi-actor projects in WP 2016-2017

23-24 November 2015: H2020 info week

- 23 November: **cross-fertilisation workshop** - all current multi-actor projects and thematic networks invited to learn from each other
- 24 November: **infoday multi-actor projects and thematic networks in H2020 WP 2016-2017**: information on multi-actor projects, including presentations by MA project coordinators and practitioners involved in those projects

The EIP-AGRI in short

- Overarching "*Open innovation*" concept based on the **interactive innovation model** (applied in Operational Groups and Multi-Actor projects):

Collaboration between various actors to make best use of complementary types of knowledge (scientific, practical, organisational, etc) in view of co-creation and diffusion of solutions/opportunities ready to implement in practice.

- **EU wide EIP network** linking actors: communication, partnering, dissemination, knowledge flows and collecting practice needs (*Open science*)

* *In line with the main recommendation of the 2015 Milan Scientific Committee on transdisciplinarity, implementation and impact: 'more research into practice'*

Interactive innovation is: an idea put into practice with success !

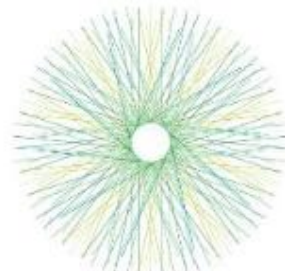
- ***an idea:*** interactive innovation occurs as a result of the **creativity** and interplay between actors for combining new and/or existing (tacit) knowledge
- ***put into practice:*** **ready to apply** by co-creation of concrete innovative solutions and making the best use of different types of knowledge (scientific knowledge, practical knowledge, organisational, etc): including the shaping of 'existing' knowledge into practice output in RUR 10 thematic networks
- ***with success :*** in the end, it is only when a new creation really becomes more or less mainstream that it is called an "innovation": generate **co-ownership** through involving partners

=> in interactive projects, communication and dissemination starts when the project starts

European Innovation Partnership

Rural Development

- **Funding for setting up of an “Operational Group”**: farmers, advisors, agribusiness, researchers, NGOs, etc) planning an innovation project (Art 35)
- **Project funding** for the Operational Group’s project (Art 35). This co-operation could be combined with other RD measures (e.g. investment, knowledge transfer, advice)
- Supporting **innovation support services**



eip-agri

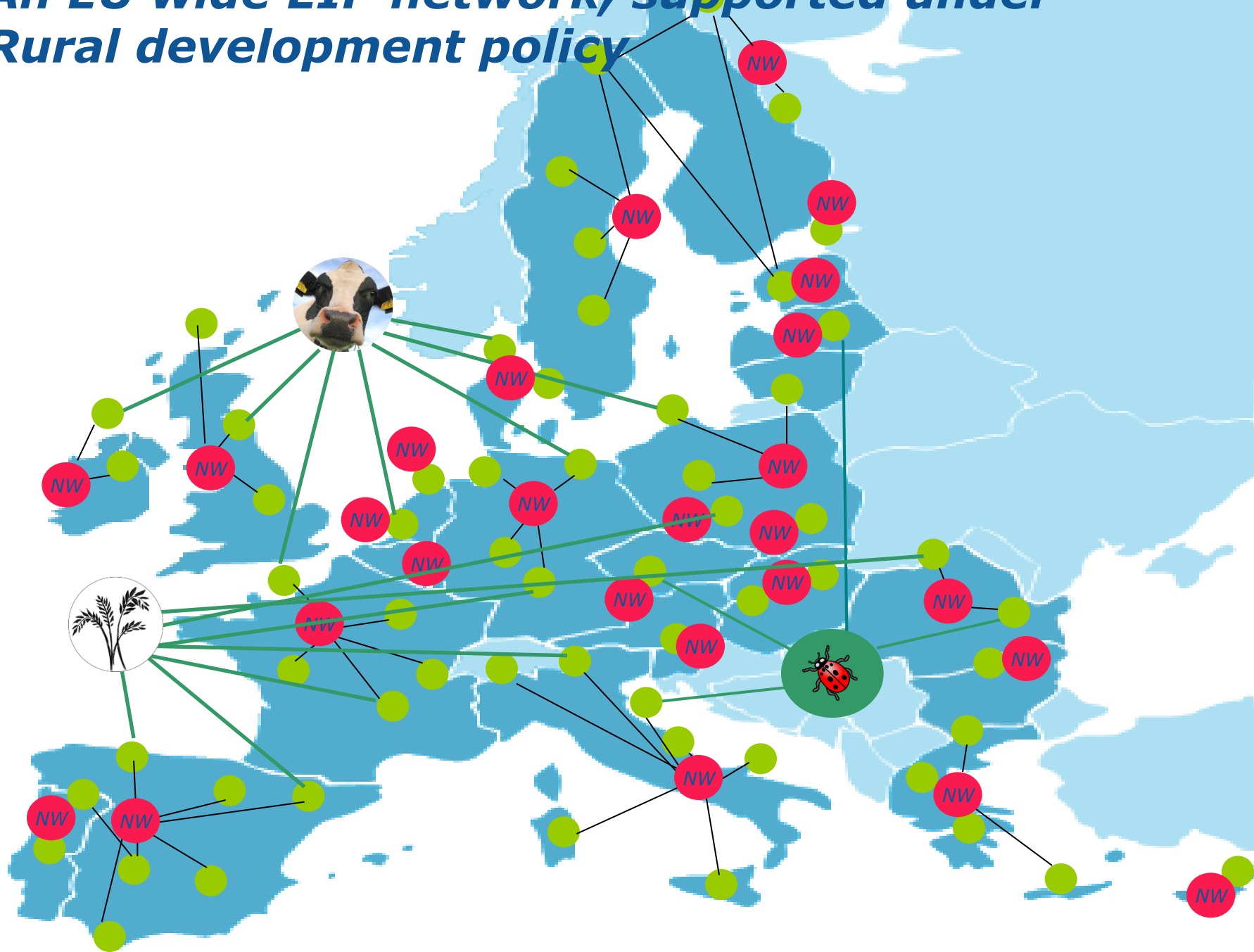
AGRICULTURE INNOVATION

**EIP
networks
in
MS/regions**

Horizon 2020

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

An EU wide EIP network, supported under Rural development policy



Multi-actor projects in WP 2016-2017

Total budget for all multi-actor projects and thematic networks in the first 2 Horizon 2020 Workprogrammes amounts **around 500 mio euro**

The **rationale** for multi-actor approach is explained in the introduction of the WP on p.10 (*"To permeate the systems..."*)

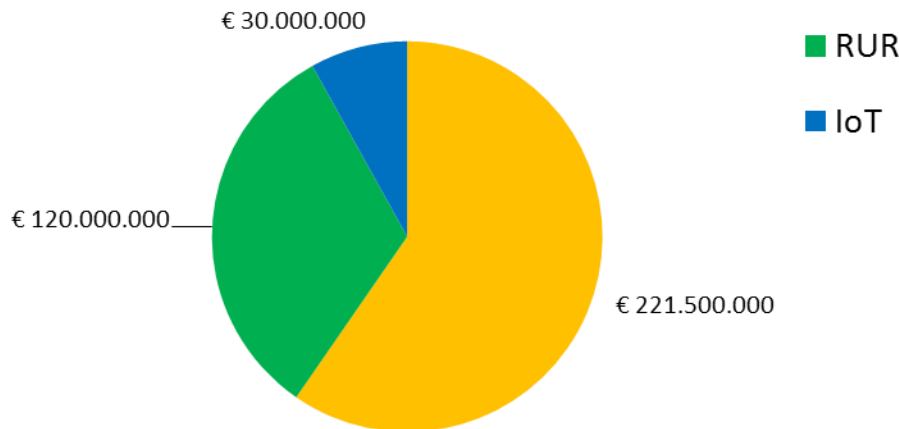
The Work programme defines the multi-actor approach after the bullet (*"The multi-actor approach aims at..."*)

All multi-actor projects are listed in the footnote on p.10 and have the following sentence in the description of the topic: *"Proposals should fall under the concept of multi-actor approach"*

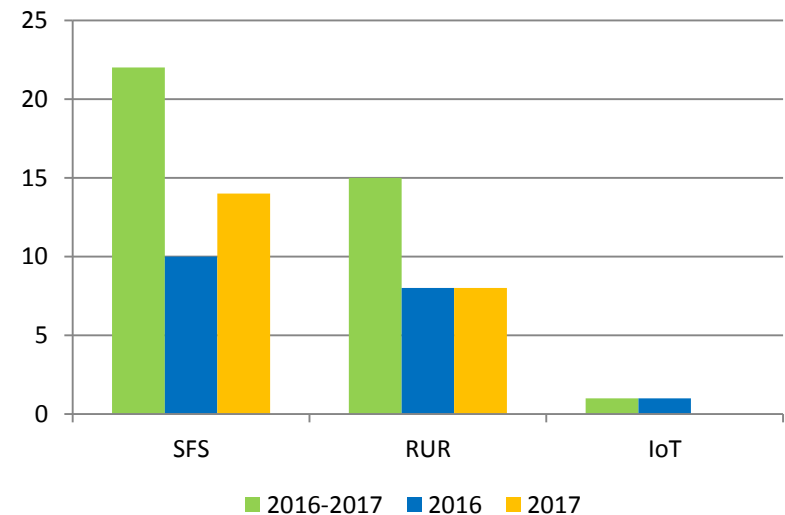
The Multi-actor approach in WP2016-2017

- *WP 2014-2015 X 2,5 → 371,5 Million euros*
- *38 topics in 3 calls: SFS (221), RUR (120), IoT (30)*

Distribution of budget for multi-actor projects



Number of multi-actor topics in WP2016-2017



Multi-actor projects in Horizon 2020 WP 2016-2017

- **Demand-driven** innovation: "multi-actor" is more than a strong dissemination requirement or what a broad stakeholders' board can deliver
- "all along the project" *: **a clear role for the different actors** in the work plan, from the participation in the planning of work and experiments, their execution up until the dissemination of results and the possible demonstration phase.
- Project proposals should illustrate sufficient quantity and quality of **knowledge exchange activities**

This should generate **innovative solutions that are more likely to be applied** thanks to the cross-fertilisation* of ideas between actors, the co-creation and the generation of co-ownership for eventual results.

Multi-actor projects in WP 2016-2017

A multi-actor project needs to **demonstrate**:

- how the project proposal's objectives and planning are **targeted to needs / problems and opportunities of end-users**
- **complementarity** with existing research and best practices

[What is the project's added value? - Avoid recycling projects: repetition and continuation of former projects – more of the same]

- sufficient involvement of **key actors with complementary types of knowledge** (scientific and practical) **should be reflected in the** composition of the project **consortium** to reach the project objectives and make its results broadly implemented.

[Include partners beyond scientists, such as farmers, farmers' groups, advisors etc - Don't forget to think about involving multipliers to strengthen impacts]

Multi-actor projects in WP 2016-2017

A multi-actor project:

- **As a minimum**, should result in **substantial** easily understandable practical knowledge for broad dissemination in the **common EIP format**

[focus on concisely written results (not project activities description): possibly some 100 EIP fiches in a practitioners/farmers' language, best practices resulting from the projects' work, some qualitative audio-visual material, etc

Do not reinvent the wheel: use existing long term available dissemination channels for practitioners, lasting beyond the project period]

- Facilitation/**mediation** between actors and involving for instance **RD operational groups**, are strongly recommended

[but don't make impossible promises and mix up funding sources and policies: H2020 consortia cannot start up OGs]

*Thematic networks in WP 2016-2017: **Compiling knowledge** ready for practice*

- Projects **involving all actors relevant** for the chose theme (e.g. researchers, farmers, advisors, enterprises, education, NGOs, administration, regulatory bodies, EIP project groups...):
[no pure research networks, use funding efficient: not as many actors as possible but chose those actors that are complementary and can really contribute]
- Provide a comprehensive **description of the state of the art**: Partners should summarise, share and **present existing scientific knowledge & best practices** that are not sufficiently known (and applied) by practitioners
*[when defining objectives: show **added value, relevance of the theme**, needs and potential for farming/forestry. Get input from the existing projects from various funding sources and avoid recycling of projects and project partners]*

Thematic networks in WP 2016-2017: Compiling knowledge ready for practice

Clearer focus on primary production:

- Themes must **focus on the most urgent needs** of agricultural or forestry production sectors, or on important or promising cross-sectoral issues, including where primary production needs to improve its linkages to the supply chain
- Themes to be chosen **bottom-up**, contributing to a more competitive sustainable agriculture and forestry
- can be linked to products or sectors, e.g. arable crops, fruits, vegetables, pig,...etc) or a broad range of cross-cutting subjects, e.g. crop rotation, certain farming practices, energy, implementation approaches of a directive, eco-system services, social services, bio-based products, short supply chains,...etc

Thematic networks in WP 2016-2017: Compiling knowledge ready for practice

Expected impact:

- Support for the EIP through **interaction** with operational groups, and **delivery of a substantial** number of "practice abstracts" in the common EIP format *[provide a good description & quantification/qualification of the budgeted outputs]*
- Using the **main existing dissemination** channels most used by practitioners *[where the material stays available after the project finished]*
- Long term available *[KISS, no temporary fancy IT tools/platforms]*
- Audio-visual material wherever possible *[farmers learn with their eyes]*
- Greater **user acceptance** and dissemination of end-user material: *[through a well designed multi-actor approach working bottom-up]*

*Thematic networks in WP 2016-2017: **Compiling knowledge** ready for practice*

Thematic networks **are not:**

- **research** projects
- **networks for discussion**
- networks **intended to prepare a research agenda**. *Thematic networks aim to put existing research into practice by focusing on end-user material feeding into the EIP network for broad dissemination*
- **awareness-raising or supply chain platforms/networks**. *Thematic networks intend to spread practical knowledge, and to make this happen they should be involving practitioners (farmers/foresters) in a multi-actor approach and working bottom-up starting with farmers and their needs.*

Thematic networks call 2014 – an example

Compiling knowledge ready for practice

- **Objectives targeting the needs of end-users (Imp)** : Key wine diseases (Grapevine Trunk Diseases and Flavescence Dorée) representing a threat for the economic viability of the entire sector, have been identified as a priority by winegrowers, many winegrowers are testing innovative sustainable approaches to fight these diseases.
- **Multi-actor approach (Exc)** : collecting data and discussion through a network of facilitator agents, several regional technical working groups and one European scientific working group. Capturing ideas and sharing between EU countries: 10 regions from 7 countries representing more than 90% of the EU wine production. Many knowl. exchange activities & experience bottom-up interactive processes
- **Consortium (Impl)**: 11 partners from science, advisory and practice; regional technical working groups already defined in the proposal (no vague promises & complementary knowledge)

How to put results from EIP projects into practice "with success" ?

- The common EIP format ("practice abstracts") was built on Member States' experience (KISS – act against information overload) and agreed at EU level thanks to the work of the Standing Committee for Agricultural Research (SCAR SWG AKIS)
- It will contribute to the **visibility and rewarding of researchers' work** in practice-oriented interactive innovation projects (e.g. thematic networks, multi-actor projects, rural development operational groups, etc)
- The unique EU repository of practice abstracts on the EIP website may help **measuring impact** of research on practice, similar to the research abstracts in peer reviewed journals.

Common format for practitioners ('practice abstract'): *info shared through the EIP network*

- Short and easily understandable **title** (one key sentence, max 150 char.)
- Short **summary** in easily understandable language (max 1500 char.):
 - What problem will the knowledge generated solve for the end-user? What will be the main benefits to the practitioner?
 - Main outcome/recommendation (2-3 main results)
- **Contact data:** Project coordinator (+ address, e-mail, telephone), text editor, project partners (+ address, e-mail, telephone), geographical location, project period, funding source & budget, link to project website and to a website where info stays long-term available

2016 - Sustainable Food Security (SFS)

SFS-1	Solutions to multiple and combined stresses in crop production	10 Mio €
SFS-2	Teaming up for good: Exploiting the benefits of species diversity in cropping systems	5 Mio €
SFS-6	Weeding - strategies, tools and technologies for sustainable weed management	7 Mio €
SFS-7	Organic breeding – Increasing the competitiveness of the organic breeding and farming sectors	8 Mio €
SFS-9	Spotlight on critical outbreak of pests: the case of Xylella fastid.	7 Mio €
SFS-11	Challenges for disease management: Perennial crops in the tropics and sub-tropics	12 Mio €
SFS-15	Breeding livestock for resilience and efficiency	7 Mio €
SFS-26	Legumes - transition paths to sustainable legume-based farming systems and agri-feed and food chains	10 Mio €
SFS-37	The impact of consumer practices in food safety: risks and mitigation strategies	9,5 Mio €
SFS-42	Promoting food and nutrition security and sustainable agriculture in Africa: the role of innovation	5 Mio €

2016 - Rural Renaissance (RUR)

RUR-1	Consolidated policy framework and governance models for synergies in rural-urban linkages	6 Mio €
RUR-4	Water farms – improving farming and its impact on the supply of drinking water	5 Mio €
RUR-6	Crop diversification systems for the delivery of food, feed, industrial products and ecosystems services - from farm benefits to value-chain organisation	20 Mio €
RUR-7	Resource-efficient and profitable industrial crops on marginal land	6 Mio €
RUR-8	Demonstration of integrated logistics centres for food and non-food applications	12 Mio €
RUR-10	Thematic Networks compiling knowledge ready for practice	10 Mio €
RUR-11	On-farm demonstrations: deepening farmer-to-farmer learning mechanisms	2 Mio €
RUR-14	Advisors' roles in the functioning of AKIS and advisory policies boosting innovation in sustainable agriculture	5 Mio €

2017 - Sustainable Food Security (SFS)

SFS-4	New partnerships and tools to enhance European capacities for in-situ conservation	2 Mio €
SFS-8	Organic inputs – contentious inputs in organic farming	8 Mio €
SFS-10	Emerging diseases in plants and terrestrial livestock	15 Mio €
SFS-16	Bee health and sustainable pollination	9 Mio €
SFS-17	Innovations in plant protection	10 Mio €
SFS-20	Science-based regionalisation of the Common Fisheries Policy	6 Mio €
SFS-27	Permanent grassland – farming systems and policies	10 Mio €
SFS-28	Functional biodiversity – productivity gains through functional biodiversity: interplay of crop pollinators and pest predators	10 Mio €
SFS-30	Closing loops at farm and regional levels to mitigate GHG emissions and environmental contamination - focus on C, N and P cycling	12 Mio €
SFS-34	Innovative agri-food chains: unlocking the potential for competitiveness and sustainability	6 Mio €
SFS-39	How to tackle the childhood obesity epidemic?	20 Mio €
SFS-48	Resource-efficient urban agriculture for multiple benefits – contribution to the EU-China Urbanisation Partnership	7 Mio €

2017 - Rural Renaissance (RUR)

RUR-2	Coastal-rural interactions: Enhancing synergies between land and sea-based activities	5 Mio €
RUR-5	Novel public policies, business models and mechanisms for the sustainable supply of and payment for forest ecosystem services	8 Mio €
RUR-9	Business models for modern rural economies	9 Mio €
RUR-12	Networking European farms to boost thematic knowledge exchanges and close the innovation gap	7 Mio €
RUR-10	Thematic Networks compiling knowledge ready for practice	10 Mio €
RUR-13	Building a future science and education system fit to deliver to practice	7 Mio €
RUR-15	The benefits of working with others – fostering social capital in the farming sector	3 Mio €
RUR-16	Optimising interactive innovation project approaches and the delivery of EU policies to speed up innovation in rural areas	5 Mio €

2016 – Internet of Things (IoT) Cross-cutting activities

Pilot 2	Smart farming and food security	30 Mio €
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23-24 November 2015: H2020 info week

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practice with success !***

***To an
„Agriculture of Knowledge“
Join the EIP***



***More information:
www.eip-agri.eu***

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Thank you for your attention!