

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

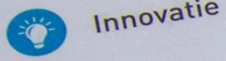
Moving Innovation in Agriculture Ahead !



**Farm Demo Conference
21 May 2019 - Brussels**

Inge Van Oost - DG Agriculture and Rural Development - Unit Research & Innovation

Why Farm demo ? Because demonstration leads to innovation



Innovatie

Boeren leren van boeren

Van demonstratie naar innovatie

Demonstraties op de boerderij – boeren die elkaar technieken tonen, die ervaring uitwisselen – zijn al eeuwen een standaard-praktijk. Het is de manier waarop landbouwers ideeën delen en innovaties doorgeven van generatie op generatie, tussen burens en naar collega's in nabijgelegen landbouwregio's. Tot nu toe was hierover nog slechts weinig in kaart gebracht. Waar bevinden zich demobedrijven? Welke demo-activiteiten werken het best om innovatie en kennisuitwisseling tussen landbouwers te bevorderen?

Lies Debruyne (ILVO) en Marleen Gysen (Innovatiesteunpunt)

Europa zet volop in op demonstraties op landbouwbedrijven als een manier om innovatie te stimuleren. Zo werden twee projecten met een gelijkaardige inhoud en doelstellingen goedgekeurd in het programma Horizon 2020. AgriDemo-F2F (Farmer to Farmer), dat getrokken wordt door ILVO, en Plaïd (Peer-to-peer learning: accessing innovation through demonstration), met het Innovatiesteunpunt als partner, vormen FarmDemo, samen met het vervolgpunt Nefertiti, dat over heel Europa netwerken zal opzetten. FarmDemo wil ervaring uitwisselen over demonstraties op landbouwbedrijven als een instrument om landbouwers onderling

niet alleen veel gegevens verzameld voor een online-inventaris van demonstratieboerderijen in heel Europa, maar hebben we ook 56 demonstratie-activiteiten gevolgd en grondig bestudeerd. In Vlaanderen waren dat de Open Energiedagen van het Enerpedia-consortium, een demonstratie voor Groene Kring op de ForwardFarm van Bayer bij Hof ten Bosch in Huldenberg. Op de Natlandhoeve werd agroforestry gedemonstreerd, op Hof ten Thorre werd mechanische onkruidbestrijding gedemonstreerd in samenwerking met Inagro. Op de Korenblokhoeve werd een beslissingstool voor management van een melkveebedrijf gedemonstreerd, in samenwerking met Inagro, Hooibeekehoeve, Boe-



Farmers learn from farmers

A recent pilot project informs us on young farmers knowledge management

- **What ?**

What kind of knowledge do they need?

- **Where ?**

Where are young farmers searching for it?

- **Who ?**

Who provides them the knowledge?

(interviews and focus groups with 2200 young farmers in the EU 28, coordinated in 2015 by Ecorys)

Knowledge needs of interviewed young farmers



Obtain specific technological knowledge necessary for the farm

Develop a farm strategy

Skills related to applying for subsidies/ grants/ credit

Financial skills

Management skills

Communication skills

Networking skills/ ability to create partnership

Resource and nature/ environment management

Marketing skills

Personal welfare

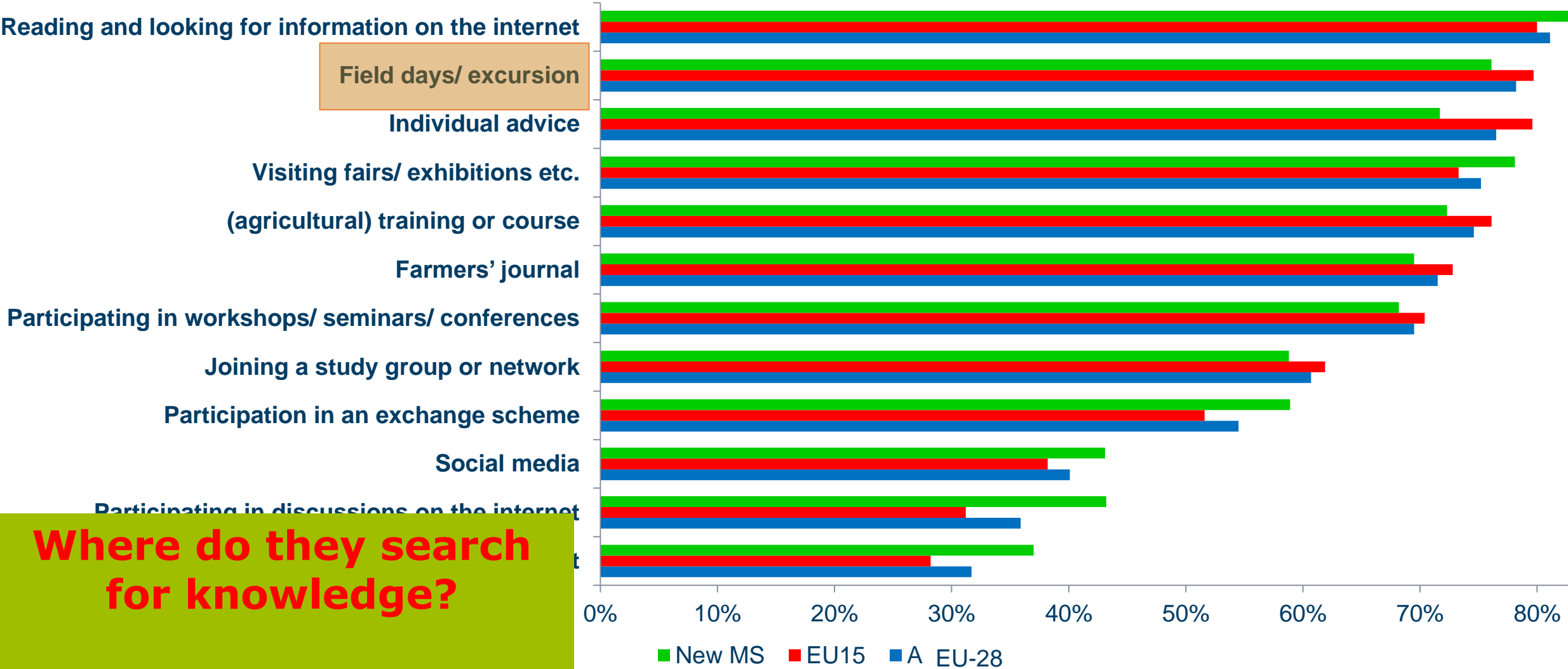
Foreign languages

What kind of knowledge do young farmers need?

■ New MS ■ EU15 ■ EU-28

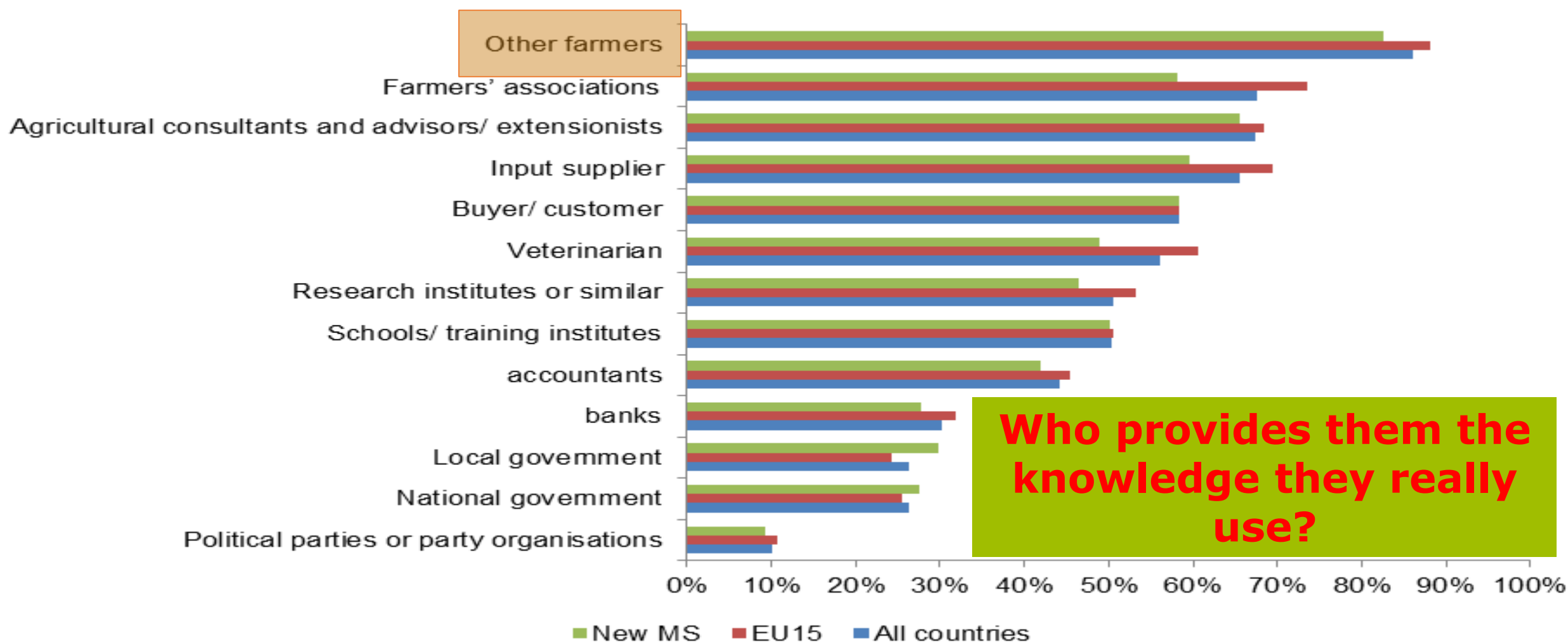
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Knowledge sources used by the interviewed young farmers



Where do they search for knowledge?

Information sources for young farmers



Findings from the Pilot project on knowledge flows of young farmers (Ecorys)

- **What kind of knowledge do they need most?**
first of all **technological knowledge**, then farm strategy
- **Where do they search for knowledge?**
Internet, **field days** and individual advice are most popular
- **Who provides them the knowledge?**
First: other farmers
Then: farmers' organisations, advisors and commercial actors, etc
- **Demonstration on-farm can support all this**

Conclusions from the Pilot project on knowledge flows of young farmers (Ecorys)

- Young farmers still have a technological focus/are **production oriented**.
- Online training or e-learning, joining discussions on internet and social media are **less important**.
- Important factors influencing knowledge needs of young farmers are: the knowledge infrastructure/educational system, the possibility of getting '**real**' **independant advice** and the **quality of the knowledge available**
- This indicates **knowledge** should **be tailor-made** and tuned to the specific needs

==> This process can start after a farm demonstration

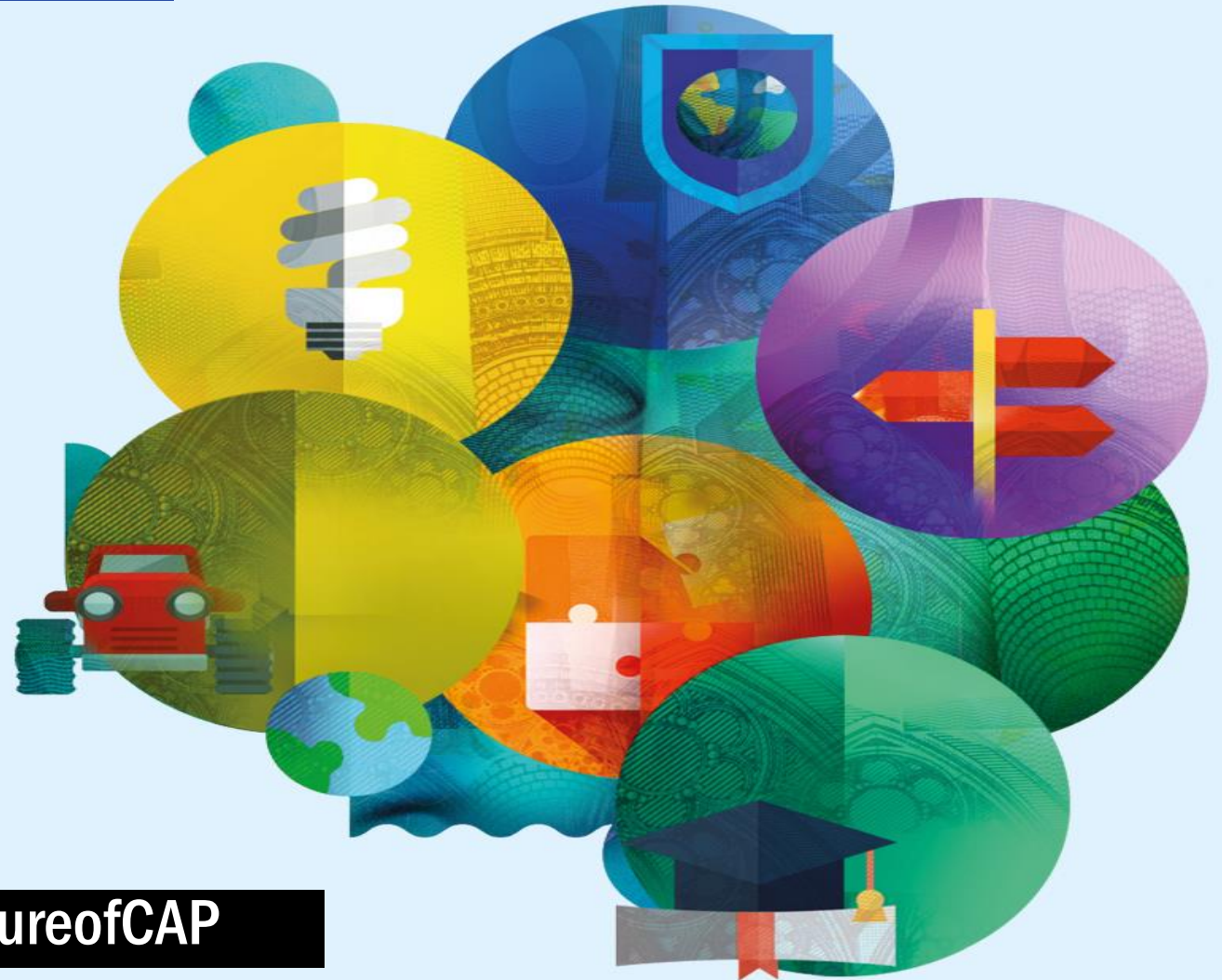
COMMON AGRICULTURAL POLICY

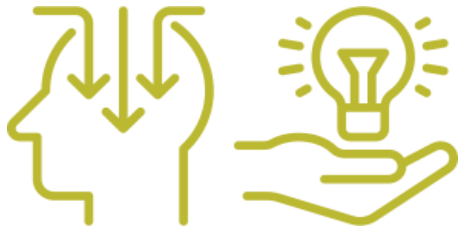
Post-2020

***Why farm
demonstration?***

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Unit B2 – Research & Innovation

#FutureofCAP





The AKIS at the heart of the agricultural innovation ecosystem

What is an Agricultural Knowledge and Innovation System (AKIS)?

What: *AKIS is the organisation and interaction of persons, organisations and institutions who use and produce knowledge and innovation for agriculture and interrelated fields.*

Who: *The main players of the AKIS are: farmers/foresters, advisors, researchers, (farmer) organisations, NGOs, networks, retailers, media, services, various ministries...: they all produce and need knowledge!*

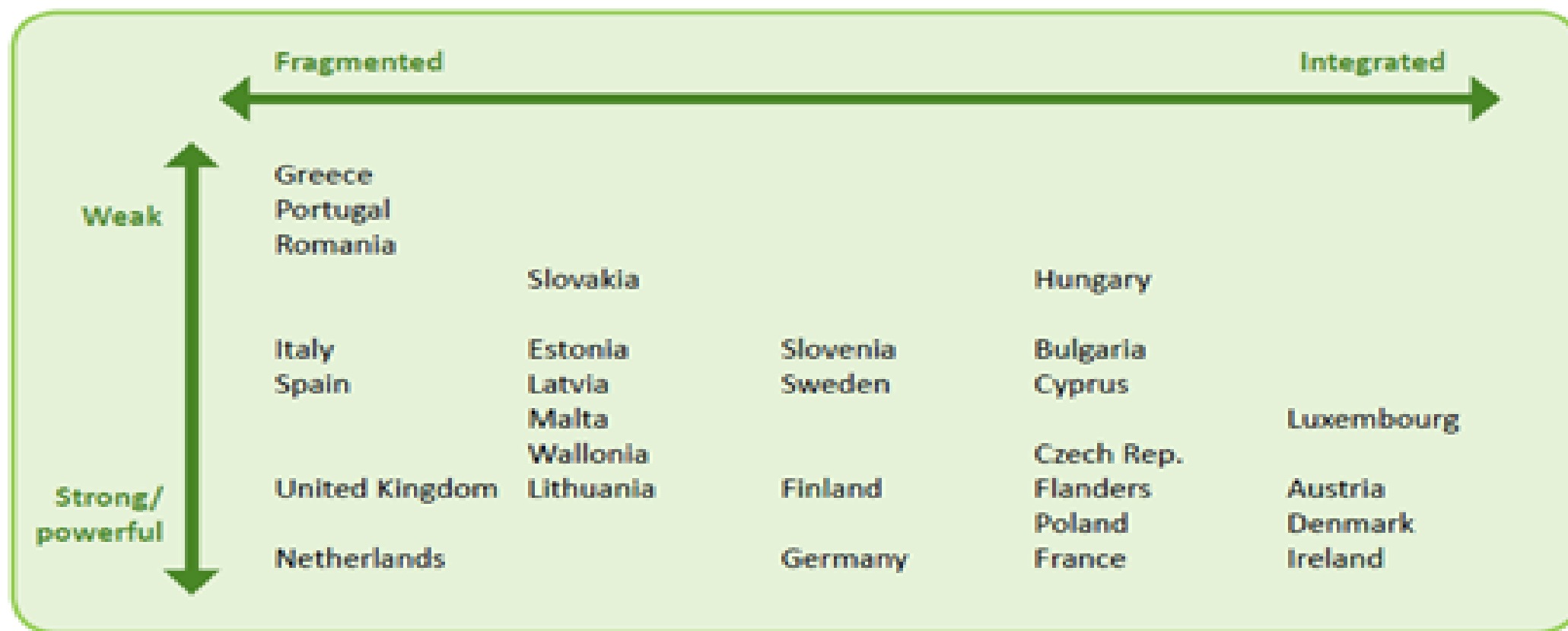
Why: *The aim is to create a regional/national innovation ecosystem by enhancing knowledge flows between the AKIS players as well as strengthening links between research and practice.*

Art 71-72 are a key part of an integrated approach supporting modernisation, innovation and knowledge flows



PROAKIS study: Characterising MS' AKIS

An overview (as of 2014)



EIP-AGRI – Where are we?

- ✓ *27 Member States, 98 rural development programmes implementing the EIP*
- ✓ *Around 3 200 OGs planned in 2014-2020; around 1000 OGs already running*
- ✓ *Around 180 H2020 multi-actor projects, including 29 thematic networks*
- ✓ *A growing and thriving network*

An increasing volume of practice-oriented knowledge !



We need more farm demo to share all this and much more to come

CAP Plan Regulation post 2020: Provisions on knowledge and innovation

**From funding innovative projects.....
.....to a whole innovation ecosystem**



THE 9 COMMON OBJECTIVES

INCREASE COMPETITIVENESS



ENSURE
VIALE INCOME



REBALANCE
POWER IN FOOD CHAIN



CLIMATE CHANGE
ACTION



ENVIRONMENTAL
CARE



PRESERVE
LANDSCAPES
& BIODIVERSITY



SUPPORT
GENERATIONAL RENEWAL



VIBRANT
RURAL AREAS



RESPOND TO CITIZENS'
CONCERNS in terms of
FOOD & HEALTH
QUALITY



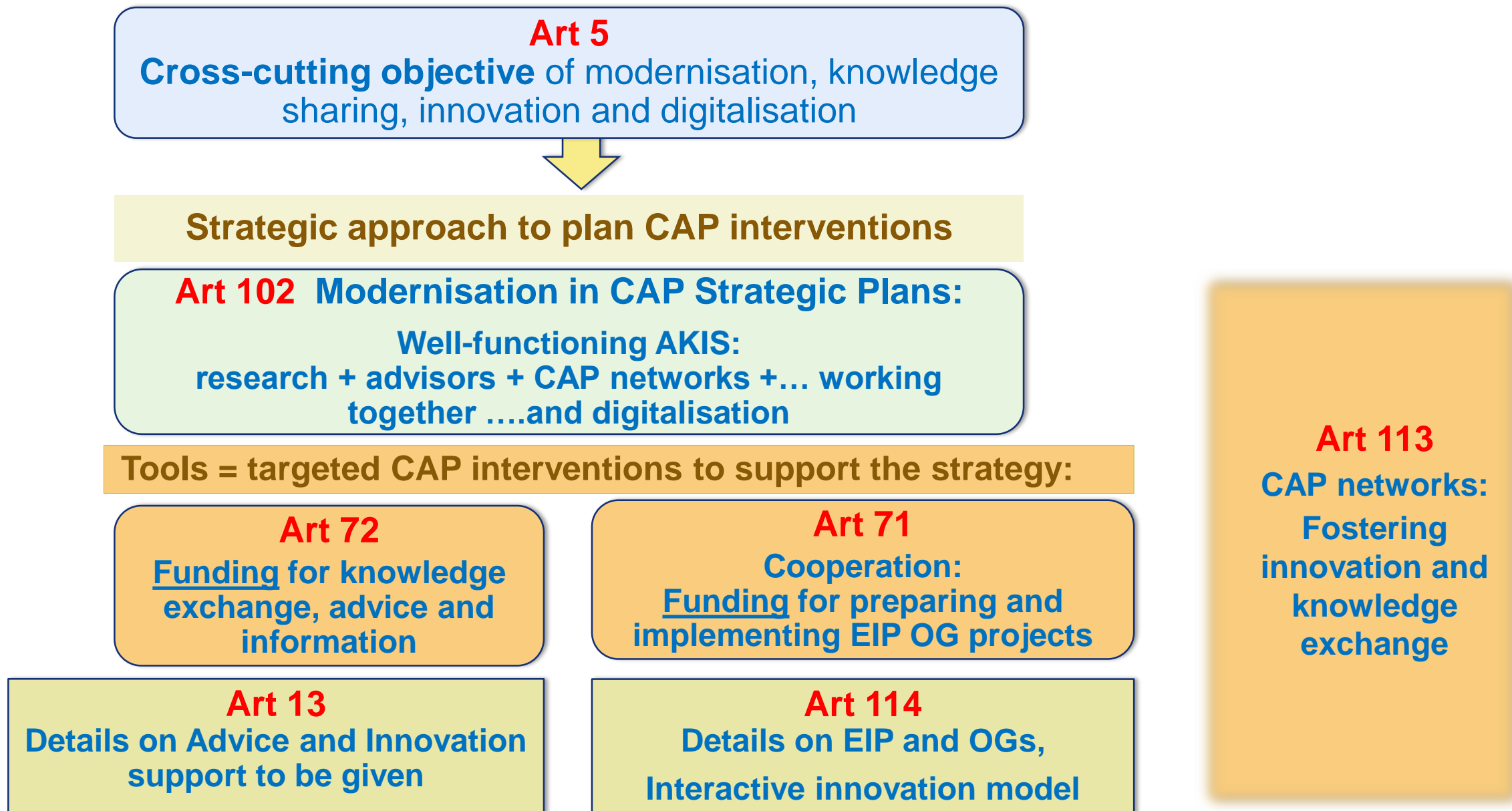
THE 9
CAP
OBJECTIVES

**Cross-cutting objective
KNOWLEDGE & INNOVATION**



European
Commission

Integrated approach for modernisation, innovation and knowledge flows: Overview of relevant AKIS provisions



Modernisation through CAP Strategic AKIS Plans

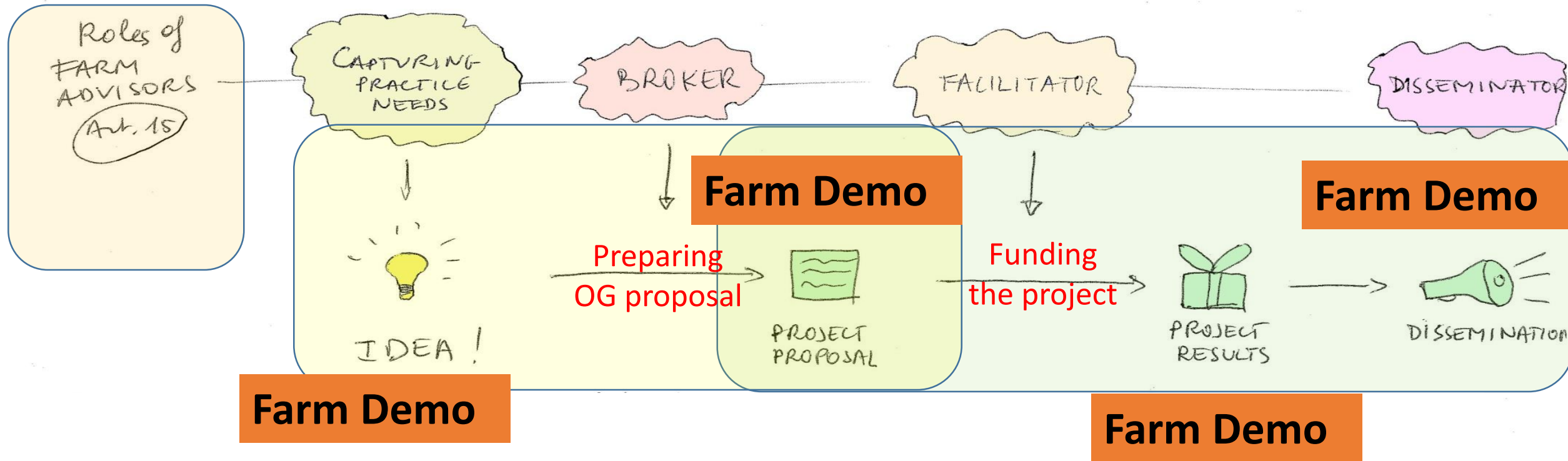
With respect to **modernisation** (art. 102), the *CAP Strategic Plans shall contain*:

1. Their contribution to the cross-cutting general objective related to fostering and sharing of knowledge, innovation and digitisation, notably by describing:
 - ***The organisational set-up of the AKIS (SWOT)***
 - ***How advisors, researchers and CAP networks will work together within the framework of the AKIS, and***
 - ***How advice and innovation support services are provided***
2. A description of the strategy for the *development of digital technologies* in agriculture and rural areas

Art 13 and 72: Farm advice organised within the AKIS structures in CAP Strategic plans

- ✓ *Advising* farmers and other beneficiaries of CAP support *to be included in the CAP plans*
- ✓ *All advisors shall be integrated in the AKIS* in an inclusive way, to be able to *cover economic, environmental and social dimensions* and to *deliver up-to-date technological and scientific information* developed by R&I
- ✓ *Advisors must be impartial* and be able to provide *Innovation support*, in particular for *preparing and implementing Operational Group* projects of the EIP AGRI

Roles for **on-farm demo** & advisors in interactive innovation projects



Demonstration on-farm can support innovation in every step of the interactive innovation processes:

- Capture practice needs (**during a demo event**)
- Broker to set up interactive innovation projects (**plan demonstrations all along the project**)
- Facilitate interactive innovation projects (**showcase plans & results during a farm demo event**)
- Disseminate newly generated knowledge (**broadly further share results during farm demo events**)

How can CAP networks help strengthening innovation and knowledge exchange on all 9 CAP objectives?

1. Collecting and sharing outcomes of 3200+ EIP OGs from current CAP
2. Collecting and sharing outcomes of 180 H2020 multi-actor projects + Horizon Europe
3. EIP website + knowledge reservoirs being prepared under H2020
4. **Connecting OGs with Horizon** projects = great added value
5. All this **material provides great input for local AKIS actors** (farmers, advisors, businesses, researchers,..): **training for advisors and farmers, peer-to-peer events, website, e-learning, ISS etc**
6. **Organising events to link and network AKIS actors** for future cooperation
7. **Start now**, already testing future interventions and **brainstorm in AKIS coordination platforms**

Farm Demo – use Art 72



TOOLBOX FOR A KNOWLEDGE- BASED AGRICULTURE

- > **Cross-cutting objective** on knowledge, innovation and digitalisation (CAP Art. 5)
- > Each **CAP strategic plan** will include a section on how to stimulate the exchange of knowledge and innovation & digital technologies in agriculture (CAP Art. 102)
- > **Strengthening of MSs'/regions'** Agricultural Knowledge and Innovation Systems (**AKIS**)
- > **Support** for advice, training, innovation and knowledge exchange in Rural Development (CAP Art. 71,72,13,...)
- > Specific budget of EUR 10 billion in **Horizon Europe** for food, agriculture, rural development and the bio-economy.



> Continuation of the agricultural **European Innovation Partnership** (CAP Art 113, 114)

Building an "EU AKIS"

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

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