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

Boeren leren van boeren

Van demonstratie naar innovatie

Demonstraties op de boerderij – boeren die elkaar technieken tonen, die ervaring uitwisselen – zijn al eeuwen een standaardpraktijk. Het is de manier waarop landbouwers ideeën delen en innovatie doorvoeren van generatie op generatie, tussen boeren en naar collegae in nabijegelegen 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?

Lisa Deheynae (ILVO) en Maatje Gysen (Innovatieontwerp)

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)
What kind of knowledge do young farmers need?

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
- Animal welfare
- Languages

EU-28

New MS

EU15
Knowledge sources used by the interviewed young farmers

- Reading and looking for information on the internet
- Field days / excursion
- Individual advice
- Visiting fairs / exhibitions etc.
- (Agricultural) training or course
- Social media
- Participating in discussions on the internet
- Farmers' journal
- Participating in workshops/ seminars/ conferences
- Joining a study group or network
- Participation in an exchange scheme
- Participating in workshops/ seminars/ conferences
- Visiting fairs/ exhibitions etc.
- (Agricultural) training or course
- Farmers' journal
- Participating in discussions on the internet

Where do they search for knowledge?

New MS | EU15 | A EU-28
Information sources for young farmers

Who provides them the knowledge they really use?
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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Inge Van Oost - DG AGRI
Unit B2 – Research & Innovation

#FutureofCAP
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.

Farmer at the centre of the integrated Agricultural Knowledge and Innovation System (AKIS) to support modernisation, innovation and knowledge flows.
PROAKIS study: Characterising MS' AKIS

An overview (as of 2014)

- Strong/powerful:
  - Netherlands
  - United Kingdom
  - Spain
  - Italy
  - Greece

- Weak:
  - Romania
  - Portugal
  - Slovakia
  - Latvia
  - Estonia

- Fragmented:
  - Wallonia
  - Lithuania
  - Slovenia
  - Sweden

- Integrated:
  - Hungary
  - Bulgaria
  - Cyprus
  - Luxembourg
  - Czech Rep.
  - Flanders
  - Poland
  - France
  - Austria
  - Denmark
  - Ireland

The James Hutton Institute

European Commission
The bigger EIP picture: Funding for interactive innovation projects & connecting policies

**Rural Development (regional/national level)**
- Funding for setting up of an “Operational Group” (OG): farmers, advisors, agribusiness, researchers, NGOs, etc)
- **Planning an innovation project**
- **Project funding** for the Operational Group’s project
- Supporting innovation support services

**Horizon 2020 (European projects)**
- Research projects, to provide the knowledge base for innovative actions
- Interactive innovation formats: multi-actor projects and thematic networks genuinely involving farmers, advisors, enterprises, etc. "all along the project"

- Involvement of OGs is strongly recommended

**EIP networks**
- MS/regions
- Unique EU repository of contacts and practice abstracts
- EIP-agri

Rural Development (regional/national level) and Horizon 2020 (European projects) are interconnected through EIP networks, which provide a unique EU repository of contacts and practice abstracts. Involvement of OGs is strongly recommended for the project.
EIP-AGRI – Where are we?

- 27 Member States, 98 rural development programmes implementing the EIP
- Around 3200 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 VIABLE INCOME

REBALANCE POWER IN FOOD CHAIN

CLIMATE CHANGE ACTION

ENVIRONMENTAL CARE

PRESERVE LANDSCAPES & BIODIVERSITY

SUPPORT GENERATIONAL RENEWAL

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

VIBRANT RURAL AREAS

THE 9 CAP OBJECTIVES

Cross-cutting objective KNOWLEDGE & INNOVATION
Integrated approach for modernisation, innovation and knowledge flows: Overview of relevant AKIS provisions

Art 5
Cross-cutting objective of modernisation, knowledge sharing, innovation and digitalisation

Strategic approach to plan CAP interventions

Art 102 Modernisation in CAP Strategic Plans:
Well-functioning AKIS: research + advisors + CAP networks +... working together ....and digitalisation

Tools = targeted CAP interventions to support the strategy:

Art 13 Details on Advice and Innovation support to be given

Art 72 Funding for knowledge exchange, advice and information

Art 71 Cooperation: Funding for preparing and implementing EIP OG projects

Art 113 CAP networks: Fostering innovation and knowledge exchange

Art 114 Details on EIP and OGs, Interactive innovation model
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
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