

Advancing digitalisation to enhance knowledge flows in AKIS

*The key question is: how various **digital infrastructures** (platforms and tools) could be used by and for the various **AKIS actors** for **enhancing knowledge flows within the AKIS?***

The main objectives of the study are to:

- ▶ give **an overview of existing good practices** of tools and approaches supporting digital knowledge flows in the different **EU Member States (EU 27+ UK)**
 - ▶ which enable farmers and authorities to learn and exchange knowledge and to better integrate outcomes of agricultural research and best practices into AKIS
- ▶ identify **main barriers** for unlocking the generation, adoption and utilisation of open and free access digital platforms and tools for knowledge exchange by practitioners
- ▶ describe **good examples** based on experiences of MSs, including both the description of the digital infrastructure and the way it came about
- ▶ develop **recommendations for digitalisation strategies within AKISs** and to comply with the modernization objective of the new CAP

CAP Article 102A: Modernisation

An overview of how the CAP Strategic Plan will contribute to the cross-cutting general objective related to **fostering and sharing of knowledge, innovation and digitalisation and encouraging their uptake**, notably through:

- ▶ a description of the organisational set-up of the **AKIS designed as the combined organisation and knowledge flows** between persons, organisations and institutions who use and produce knowledge for agriculture and interrelated fields
- ▶ a description of how **advisory services** as referred to in Article 13, **research and CAP networks will work together** within the framework of the AKIS, and how advice and innovation support services are provided

Survey Questions: Outline

Open and closed questions in 3 sections:

1. **National/regional strategies** (existing or planned) on digital infrastructures to enhance knowledge flows between AKIS actors
2. **Existing digital infrastructures** to enhance knowledge flows in your region/country
3. **Planned digital infrastructures** (...)

Survey Questions: Strategy

- ▶ How do digital infrastructures in your AKIS system affect the uptake of R&I results and best practices in your country/region?
- ▶ Which existing digital dissemination channels for knowledge exchange are mostly used by practitioners (end-users) in your region/country?
- ▶ Does your country/region have digital tools used for CAP compliance in particular?
 - ▶ E.g. is there a digital tool for nutrient management?
- ▶ What are the main bottlenecks hindering the utilisation of digital platforms and tools at farm level?
 - ▶ What are success factors?
- ▶ Which measures/interventions could help to enhance digital knowledge flows?
- ▶ Does your country/region have a digitisation strategy or is a strategy being developed?
 - ▶ Actors involved, main end-users, stimuli, monitoring system + indicators, coherence with strategic AKIS plans.

Survey Questions: Digital Infrastructures

- ▶ Which good practices/examples of digital infrastructures **exist / are planned** in your country/region which enable the uptake of knowledge by practitioners and enhance interconnections between different AKIS actors?
 - ▶ Which actor(s)/organisation(s) are involved and interconnected
 - ▶ Do the practitioners utilise the knowledge as expected?
 - ▶ How is that monitored?
 - ▶ Is the infrastructure funded by or connected to one or several projects or other initiatives on regional, national, EU or global level?
 - ▶ Who will sustain and maintain (update) it on the longer term when the project does not support it anymore (e.g. beyond 10 years)?
- ▶ Are the digital infrastructures merely repositories without digital interactive possibilities or are there infrastructures with (some form of) interactivity?
- ▶ How is this form of interactivity managed (person or organisation tasked for this)?
- ▶ In particular regarding nutrient management (in general), which digital tools are publicly available and are they successful?

Examples

Digital infrastructures enhancing knowledge flows in AKIS:

- NL
- BE
- HU

NL - Knowledge reservoir 'Cows and opportunities'

Practical news
News letters
Overview impact
communication

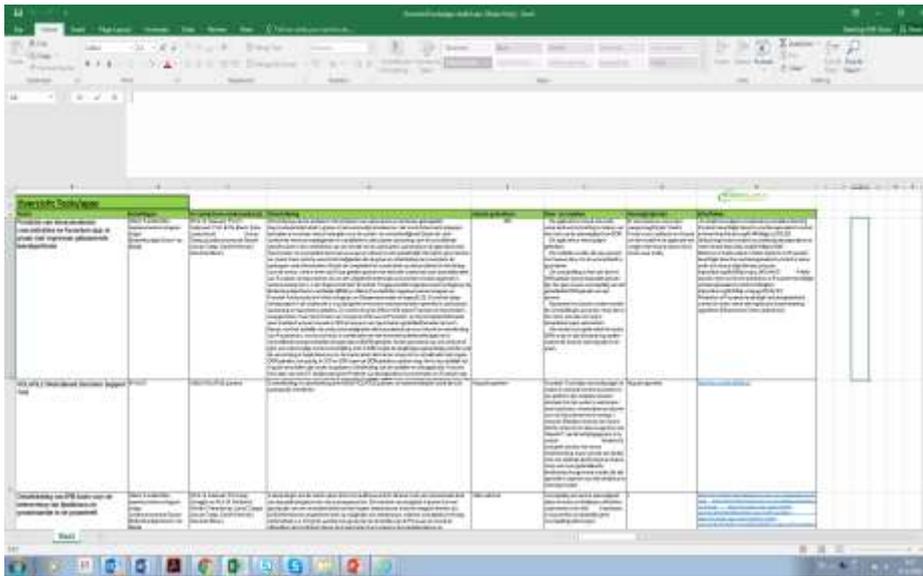
Tools
Flyers/fact sheets
Practical notes
Research reports

Articles in sector
journals
YouTube videos
Attention mails
Twitter, LinkedIn

Actors:
Agricultural sector,
research, research
stations, advisors.

**Links to many
projects.**





BE – AgroLink Flanders making an overview of R&I apps/tools in AKIS

Examples:

VOLATILE Web-Based Decision Support Tool

App to detect diseases and plagues

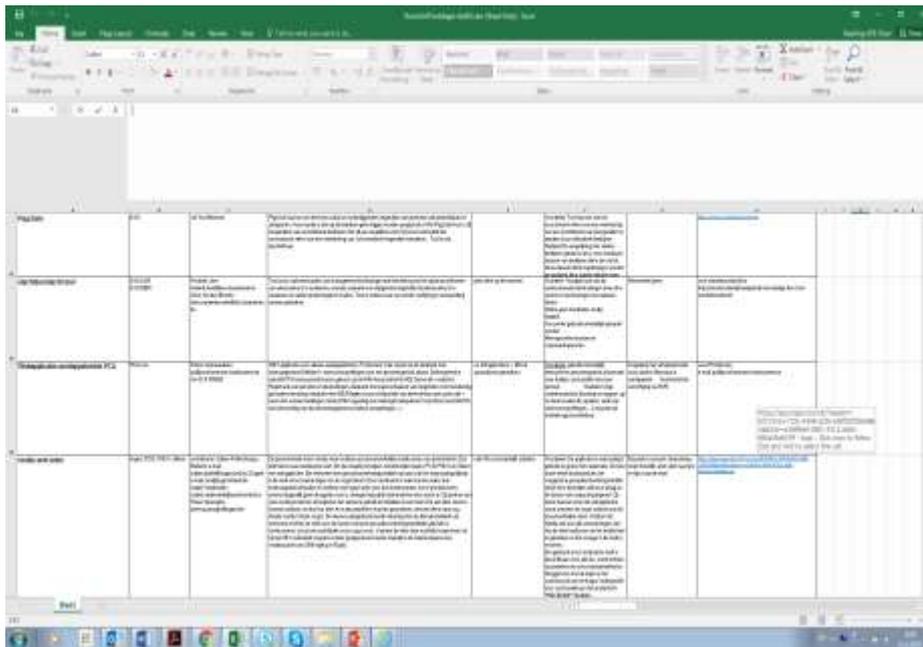
Irrigation tool

X-Plant: 3D CT image database of plant organs

ILVO Entrepreneurs scan

Image toolbox

Pigs2Win simulation tool





HU – Swine Information System

Providing up-to-date information about the pig market for farmers, extension service, researchers, traders

Examples:

Up-to-date information about prices (living animal, feed market, consumer price)

Statistics about consumption and external, internal markets

Active Online diagrams

Legal and animal disease information

Courses and tenders

Image toolbox

Sertés
A vágósertés termelői ára az EU néhány tagországában

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Ország	2018. 11. hó	2018. 12. hó	2019. 01. hó	2019. 02. hó
Belgium (Belgium)	1,43	1,47	1,50	1,46
Franciaország (Franciaország)	1,25	1,23	1,26	1,26
Írország (Írország)	1,4	1,43	1,5	1,48
Itália (Itália)	1,4	1,43	1,5	1,48
Magyarország (Magyarország)	1,36	1,41	1,46	1,36
Portugália (Portugália)	1,37	1,39	1,39	1,29
Spanyolország (Spanyolország)	1,36	1,28	1,3	1,28

Hazai termelésből származó vágósertés HETI termelői átlagára

The graph shows a fluctuating price trend, starting around 450 HUF/kg in early 2018, peaking near 500 HUF/kg in late 2018, and ending around 450 HUF/kg in early 2019.

Study Approach

March-June 2019:

1. **Mapping exercise** by surveys/interviews including linkages to relevant EU projects in the EU-28
2. Best practices analysed as **Cases** for a clear understanding on the operation of digital infrastructures and related monitoring systems
3. **Recommendations** for digitisation strategies and potential indicators for digital platforms and tools in line with the Strategic Modernisation plans for the future CAP and guidance for capitalising knowledge
 1. Specific recommendations on how to include digital aspects in AKIS for the 5th mandate.

Team and Funding of the study

- ▶ Core group: NL, BE, HU
- ▶ Expert group related to SWG SCAR AKIS, including 10 partners: IE, IT, SP, EE, AU, PL, RO, HU, BE, NL
 - ▶ Will provide for the data in all MSs
- ▶ Alignment with the study 'AKIS IMPLEMENTING TOOLS TO BRIDGE THE GAP BETWEEN RESEARCH AND PRACTICE'
- ▶ FUNDED BY: THE EU CASA PROJECT



Questions?

