



Digital agriculture in Europe: state of play & future trends

Smart-AKIS
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EU POLICY CONTEXT



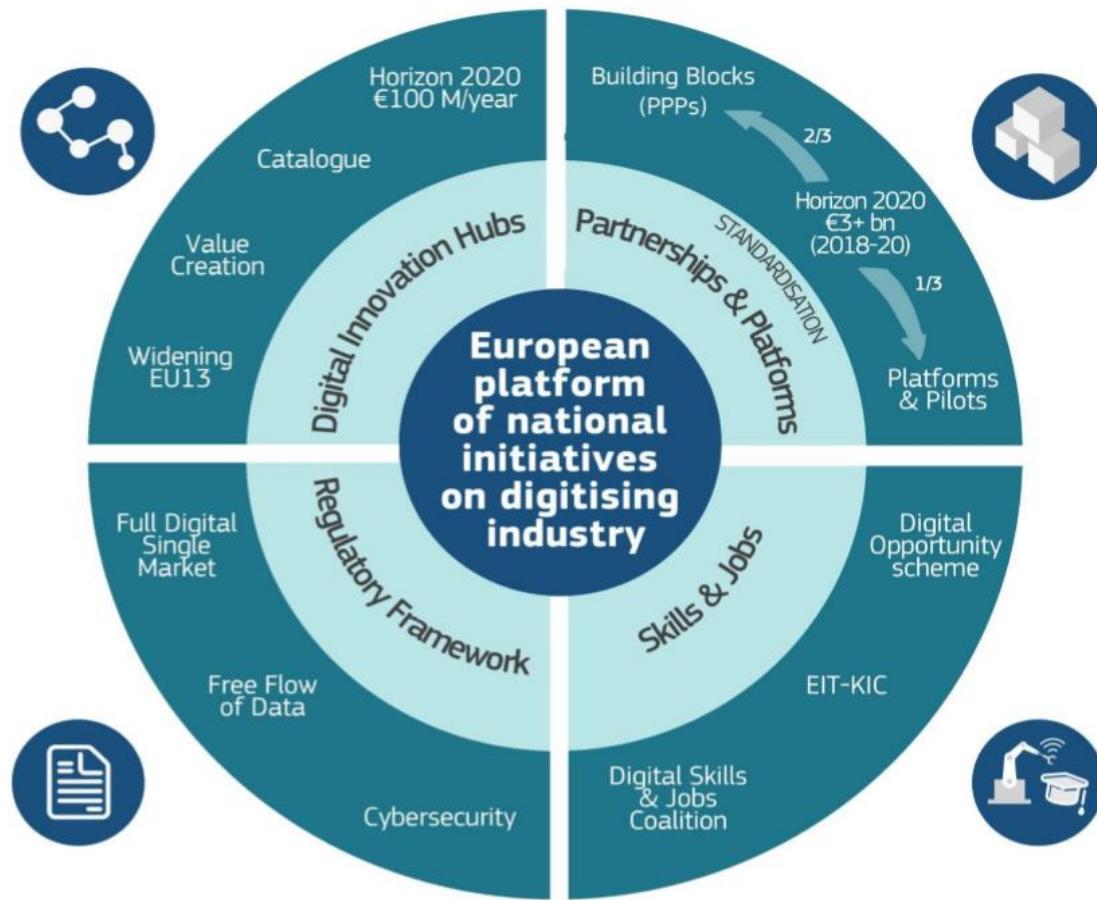
<https://ec.europa.eu/digital-single-market/en/policies/digitising-european-industry>

<https://ec.europa.eu/digital-single-market/en/policies/building-european-data-economy>



https://ec.europa.eu/agriculture/events/rural-development-2016_en

Digitising European Industry (DEI) Strategy



<http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52016DC0180&from=EN>

EU INSTRUMENTS



Innovation ^{H2020} Interactive Approach



EIP-AGRI

ACTIVITIES

EIP-Focus Group "Mainstreaming Precision Farming" (2014-2015)

<https://ec.europa.eu/eip/agriculture/en/focus-groups/mainstreaming-precision-farming>

EIP-AGRI EIP-AGRI seminar 'Data revolution: emerging new business models in the agri-food sector'. 22-23 June 2016 in Sofia, Bulgaria.

<https://ec.europa.eu/eip/agriculture/event/eip-agri-seminar-'data-revolution-emerging-new>

H2020 workshop on "Digitising the agri-food sector", 28-29 September 2016 in Brussels, Belgium

<http://ec.europa.eu/programmes/horizon2020/en/news/digitising-agri-food-sector-workshop>

EIP-AGRI Workshop on "Data Sharing: ensuring a fair sharing of digitization benefits in agriculture". 4-5 April 2017 in Bratislava, Slovakia

<http://ec.europa.eu/eip/agriculture/content/eip-agri-workshop-data-sharing>

EIP-AGRI Seminar on Workshop on "Digital Innovation Hubs: mainstreaming digital agriculture". 1-2 June 2017 in Kilkenny, Ireland.

<http://ec.europa.eu/eip/agriculture/content/eip-agri-seminar-digital-innovation-hubs-mainstreaming-digital-agriculture>

Agri Innovation Summit 2017 11-12 October 2017 in Lisbon (Portugal)

<http://www.aislisbon2017.com/>

Horizon 2020 Digitisation Day 17 November 2017 in Brussels

<http://ec.europa.eu/programmes/horizon2020/en/news/horizon-2020-societal-challenge-2-infoweek-including-high-level-policy-events>

OBJECTIVES

- Take stock of how digital technologies in agriculture are being taken up across EU member states.
- Build a European network of stakeholders working together on digital activities for agriculture and rural areas.
- Identify the specific needs of the sector and barriers that prevent the full uptake of digital technologies.
- Develop a research agenda for the coming years.
- Discuss how EU policies can better support the digitisation process.

EU Digital Strategy for Agriculture and Rural Areas

Uptake

- Better connectivity
- Involving the farming community in the innovation process
- Digital skills
- Support for investments
- Synergies and complementarities between EU, national and regional policies and programmes

Technology

- Increasing R&I activities to develop: new services in rural areas, new applications for the farming sector and new systems for CAP's implementation.
- Developing solutions to overcome existing barriers for data sharing and re-use.
- Interoperability

Impact

- Policy - mitigation of potential negative effects



R&I ACTIVITIES

H2020 WP 2018-2020 Topics: Digital transformation in agriculture and rural areas (164 mill. euro)

Uptake

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

Technology Development

* DT-RUR-12-2018 - ICT Innovation for Agriculture - 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

* Topics published under "Information and Communication Technologies" Work Programme

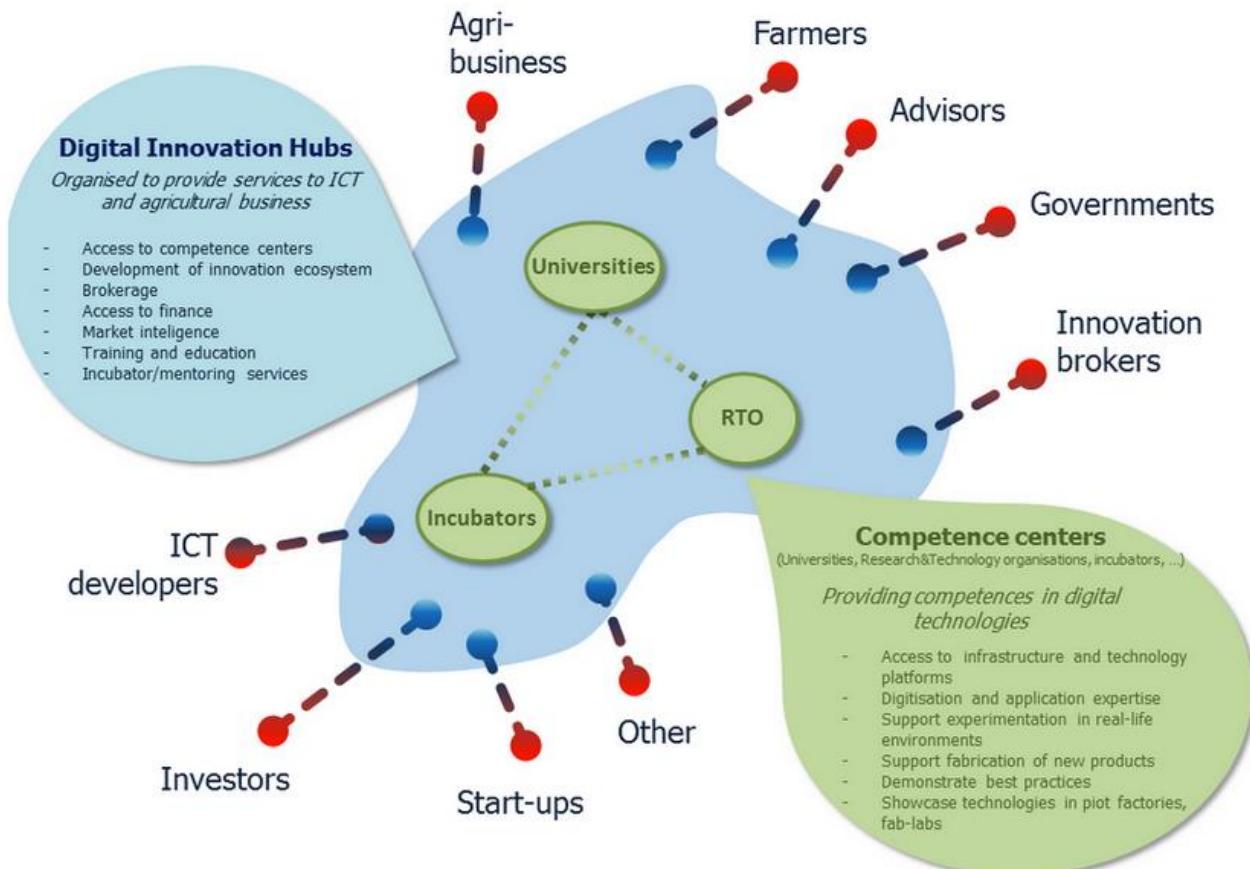
* RUR Topics contributing to the Focus Area " Digitising and transforming European industry and services"

* 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

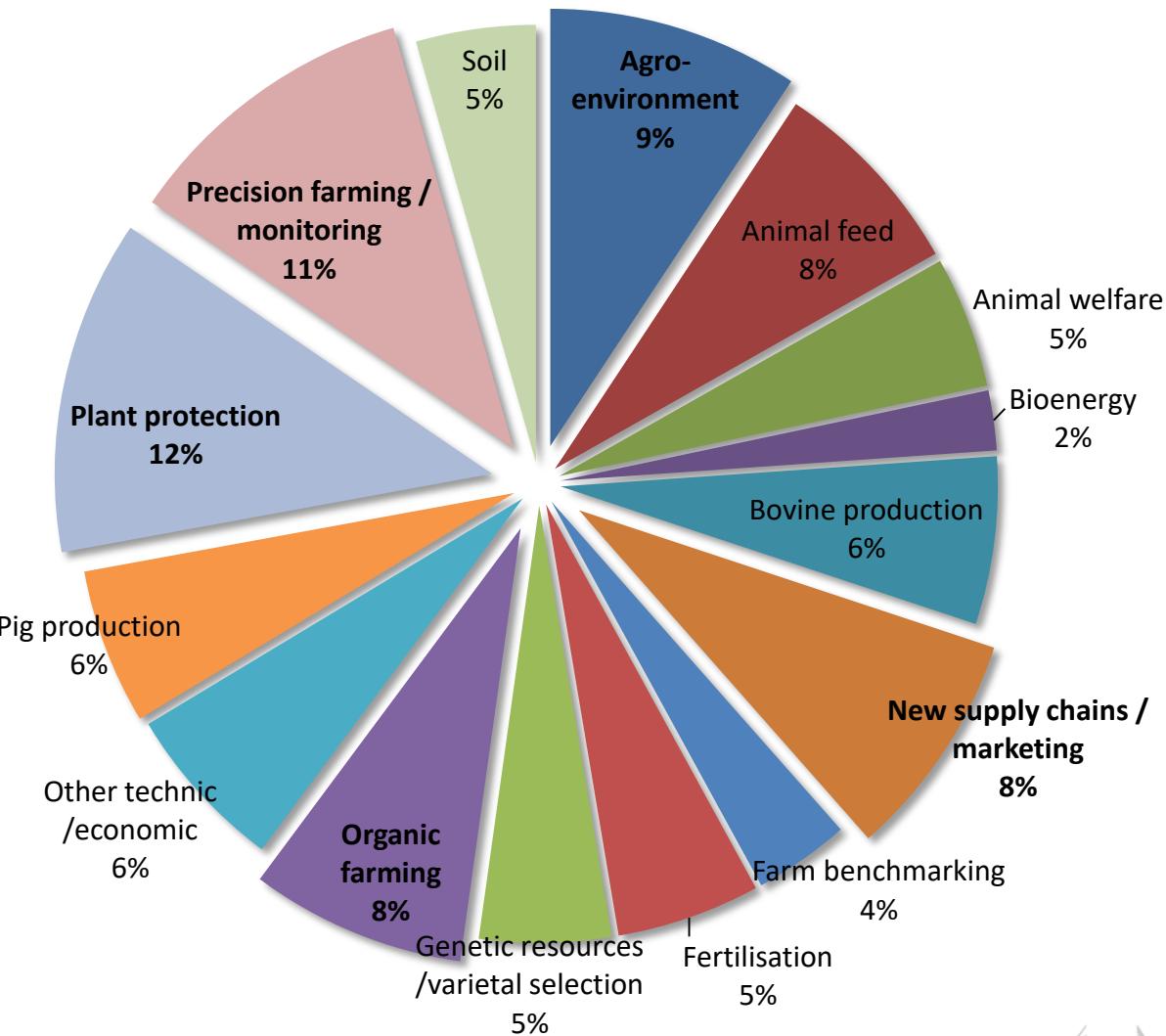
http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-food_en.pdf

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-leit-ict_en.pdf

Digital Innovation Hubs



RURAL DEVELOPMENT: OPERATIONAL GROUPS



What's next

Further integration of agriculture in

- 1) Digital Single Market*
- 2) Digital Europe Programme (post 2020)*

***HPC, AI, Cybersecurity & trust, Digital skills,
Ensuring a wide use of dig. tech.***

More digitisation and innovation under future CAP

Cross-cutting objective: fostering knowledge, innovation and digitalisation in agriculture and rural areas

Specific objective: enhance market orientation and increase competitiveness including greater focus on research, technology and digitalisation

What's next

- *Impact*
 - **CAP strategic plans**
 - **RUR-02-2018: Socio-economic impacts of digitisation of agriculture and rural areas**
Science < – > Policy
 - **Alignment of regional / national / EU agendas**
December conference

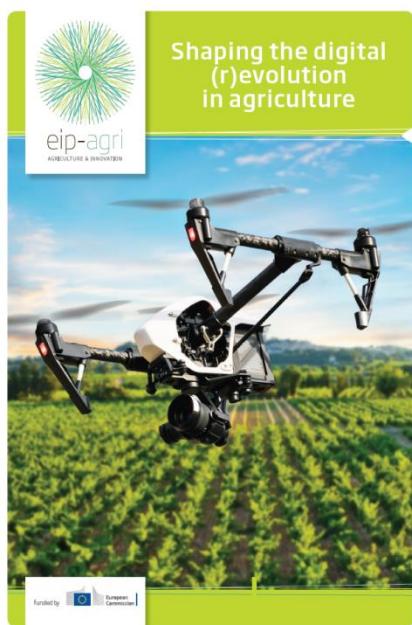
What's next

- *Innovation*
 - **Digital as cross-cutting in strategic approach to EU agricultural R&I**
 - **Multi-actor in H2020**
 - **Operational groups**
 - **Digital innovation hubs**
 - **Advisors: innovation support and digital tech. development**

What's next

- *Uptake*
 - Dissemination and exploitation of R&I
 - Digital innovation hubs
 - Skills – Advisory
- RUR-13-2018 - Enabling the farm advisor community to prepare farmers for the digital age**
- Infrastructure (broadband)
 - Investment support
 - Pull-policies?

MORE INFORMATION:



https://ec.europa.eu/eip/agriculture/sites/agri-eip/files/eip-agri_brochure_digital_revolution_2017_en_web.pdf