Connecting Communities on Digital Innovation in Agrifood



Connecting Communities on Digital Innovation in Agrifood

George Beers

Chair of the SmartAgriHubs Community

Andres Montero

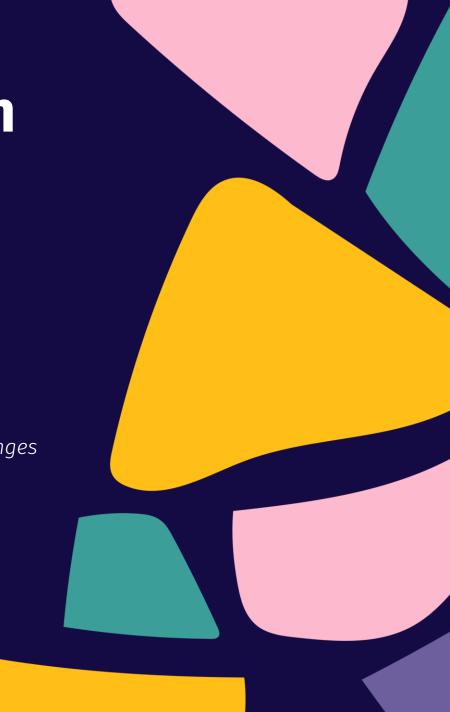
Special Advisor of the President of the Spanish Government for Agriculture challenges

Doris Marquardt

Programme Officer, DG CNECT, European Commission

Joost Schuttelaar

Managing Partner, Schuttelaar & Partners





Plan de Recuperación, Transformación y Resiliencia

Planderecuperacion.gob.es



CONNECTING COMMUNITIES ON DIGITAL INNOVATION IN AGRIFOOD

October, 14th 2024



The digitization of the agricultural sector has become an opportunity to face the challenges of climate change with more and better tools to capture, analyze and manage agricultural and livestock farms more efficiently, with more welfare for farm workers and more resilience to anticipate the emergency of possible adverse phenomena





- URBAN VS RURAL: CONNECTIVITY
- STRUCTURAL: LARGE VS SMALL FAMILY FARMS
- ADOPTION: CAPACITIES







- URBAN VS RURAL: CONNECTIVITY
 - +675M€ invested in high fixed very high-capacity networks
 - ES is significantly above the EU average (93% vs 73%) in fixed very high-capacity networks, and in fibre to the premises coverage it exceeds the EU average by a wide margin (91% vs 56%).
 - + 1bn € invested for the deployment of 5G networks in rural areas
 - 5G coverage (82% vs 81%) although now assigned 98% of all 5G pioneer bands under the RRP
 - High capacity satellite internet **coverage in all the territory** through the program ÚNICO DEMANDA RURAL which is granted by the RRP.
- STRUCTURAL: LARGE VS SMALL FAMILY FARMS
- ADOPTION: CAPACITIES









- URBAN VS RURAL: CONNECTIVITY
- STRUCTURAL: LARGE VS SMALL FAMILY FARMS
 - MODERNIZATION AND DIGITIZATION OF IRRIGATION COMMUNITIES: +1,5bn euros for the modernization and digitization of irrigation systems
 - DIGITAL Toolkit vouchers: 70.000 FARMERS AND AGRIFOOD SMES HAVE ALREADY BENEFITTED
 - KIT Consulting: 300 M€ to advice and support to SMEs in their digitization process



- URBAN VS RURAL: CONNECTIVITY
- STRUCTURAL: LARGE VS SMALL FAMILY FARMS
- ADOPTION: CAPACITIES
 - 1bn euros to develop basic digital capacities
 - +150.000 women from rural areas already trained in digital capacities.
 - Spain is above the EU average in at least basic and above basic digital skills, with 64% and 38% of the population benefiting from these skills respectively
 - Modernisation of VET system
 - +310.000 new places created ca. 25% in digital areas
 - Re-skilling and up-skilling of workers to contribute to the digital transition









ALSO ENHANCE THE ECOSYSTEMS

• DIH SUPPORT: +30M€ to complement EDIH actions



 LA VEGA INNOVA: DIH DEVELOPED BY THE MINSITRY OF AGRICULTURE WITH THE PARTICIPATION OF TELEFÓNICA.

- AGROINNPULSO: +30M€ to boost agrifood digital entrepreneurship
- ALLOWING NEW TECHNOLOGIES TO HAPPEN:
 - Satellite: ATLANTIC CONSTELLATION (ES-PT)
 - HAPS
 - IA and Supercomputing capacities
- DATASPACES: +40M€ for demonstration and use cases projects in AGRIFOOD







MANY THANKS



www.planderecuperacion.gob.es







The potential of communities to accelerate the impact of policy instruments

14 October 2024 Synergy Days, Barcelona, Spain

> Dr. Doris MARQUARDT, European Commission, DG CNECT, Unit E4

The Vision



Research



Innovation



Deployment



"Draghi Report"



The future of European competitiveness A competitiveness strategy for Europe

- Proposes to foster the competitiveness of industry
- Calls for dedicating attention to the development of start-ups and SMEs
- Emphasizes the relevance to **share data** across sectors to boost innovation.



The sector and the value chain in figures

Share in employment

Decrease from 10.2% iii 1995 to 4.5, 2020; huge differences between MS Decrease from 10.2% in 1995 to 4.5% in $(2020)^{1}$

 $(2023)^2$

Share of EU GDP

Big Four": FR, DE, IT, ES;

(Mobility 7%, Energy 6%)

B EUR (2022)3

Trade balance

In 2022, the EU exported €229.1 billion in agricultural products and imported €195.6 billion (Automotive: Exports to third countries: €158 billion in 2022.

Imports: € 62 billion)

€70.1 B EUR (2023)³

Food trade surplus

Exports €228.6 billion, imports €158.6 billion, total surplus of €70.1 billion (2023); with an increasing trade balance

8.1% Share of Agriculture in total of trade

 $(2023)^4$

7000 Manufacturers⁵

Agricultural Machinery

Annual turnover of €40 billion. Global Exports 2021: € 74 billion. DE: €13 billion; China: €9 billion; US €8.1 billion; followed by IT and FR

US productivity advantage

over the EU, with DE, NL; FR, DK and BE being the only countries to match the US in agricultural productivity

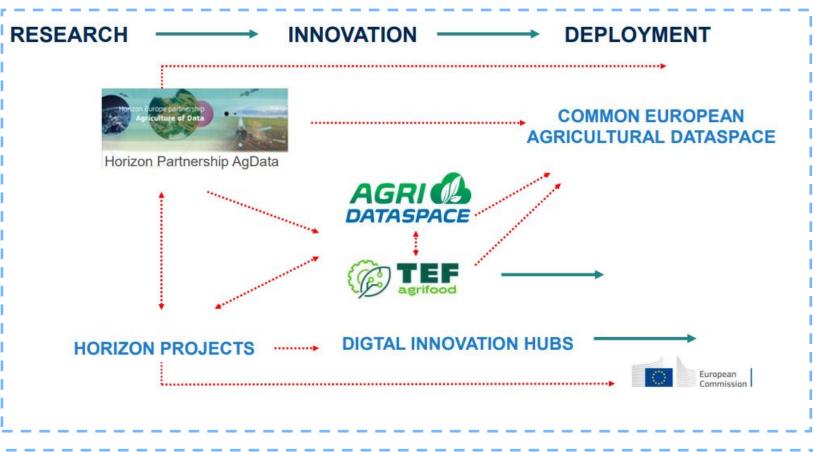
€30 B EUR in 20297

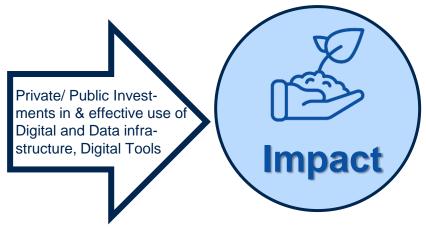
Market for Agri digitalisation

Growth from €18b in 2024 to €30b in 2029



EU level actions – A lot has been launched ...





Horizon Europe

Digital Europe

Connecting Europe Facility

Recovery & Resilience Facility

Common Agricultural Policy

Other instruments

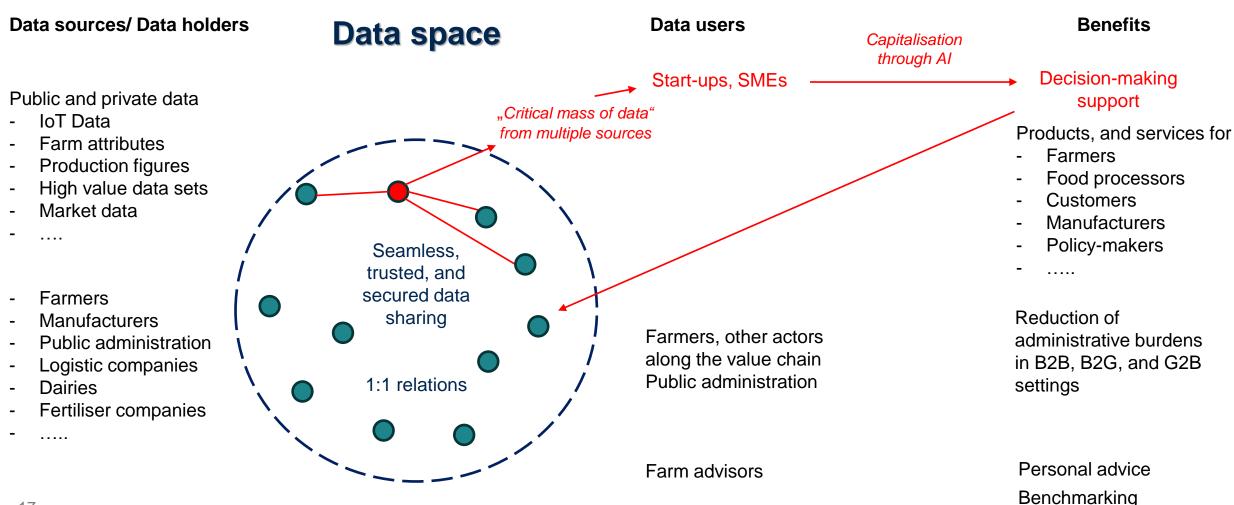
European Regional Development Fund

Selected challenges in the value chains in the digital transformation of the agri-food sector

- Insufficient investment capacities and lack of cost effectiveness of digital tools
- A high number of very small businesses as "end users"
- Lack of trust in data sharing and/ or digital technologies and the "black box" of Al
- A limited number of actors with sufficient data for efficient Al application
- A limited number of providers of decision-making support tools (which can run their business sustainably)
- Lock-in effects
- Lack of commonly acknowledged standards and interoperability
- Lack of capacities to implement a number of novel legal acts in the field of digital and data



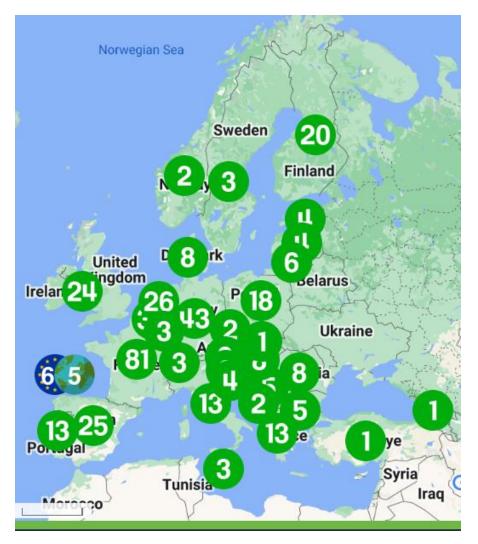
How achieving impact and delivering on policy objectives? - The example of data spaces and AI exploitation



Determinants for the success of data spaces

- Mobilisation of stakeholders
- Establishing of trust
- Interplay between stakeholders
- Model contracts under the Data Act
- Low "entry burden", little administrative effort for users
- Relevance, quality, and quantity of data shareable
- Usability for start-ups to provide and scale data-based solutions and to provide cost-effective services

Data sharing initiatives in agriculture in the Europe



Is the added value of systemic actions and investments feasible to all stakeholders?

Added value of data sharing?

Added value of investing time into standards and interoperability?

etc.

Action needed?

Exploring Generative AI in Agri-Food

- Generative AI in Agri-Food widely "untapped territory" in practice.
- Potential of Generative AI is seen among others in the following areas
 - Reducing administrative burdens (e.g. Documentation, Reporting)
 - Personalised remote/ ad hoc assistance
 - Risk prediction
- Opportunities of Generative AI to be explored under consideration of socio-economic (including cultural) context in the sector to ensure cost-effectiveness, and uptake of developed solutions, and avoid risks/ unwanted side-effects.
- R&I in the field of Generative AI is expected to be supported under the forthcoming work programmes of Horizon Europe.



Where to invest?

Conclusions

- Taking a holistic view on the value *chains* and innovation ecosystem is an asset to boost competitiveness and the twin transition in agri-food.
- Data-sharing and its effective re-use following a systemic approach through data spaces is key to exploit the potential of Al. Cross-sectoral data sharing is an additional asset for innovation and the economy.
- Investing into capacity building to ensure a fair digital transition taking a short-, medium- and long-term perspective, including into scaling innovation, systemic digital and data infrastructure, and capacities to find time to achieve consensus on, e.g. governance of data spaces and standards.
- **Demonstrate the added value of systemic investments of larger scale**, e.g. into data spaces and levers for enhanced interoperability, which may not materialize ad hoc and need commitment of multiple stakeholders to be a success.
- Communities hold the potential to accelerate impacts of policy instruments beyond achieving synergies; they
 - can speed up finding consensus on governance and standards
 - have convincing power in demonstrating and communicating added value of digital tech in a targeted manner
 - can identify scalable R&I results and market failures and help to set (public) intervention and investment priorities; and
 - can mobilise private and public resources for strategic investments in Europe.



Announcement



Forthcoming publication of the study

"Boosting the twin transition in agriculture and a resilient innovation ecosystem – Standards and platformisation in the spotlight"



Will be released on the Commission website





Connecting Communities on Digital Innovation in Agrifood

George Beers

Chair of the SmartAgriHubs Community

Andres Montero

Special Advisor of the President of the Spanish Government for Agriculture challenges

Doris Marquardt

Programme Officer, DG CNECT, European Commission

Joost Schuttelaar

Managing Partner, Schuttelaar & Partners



Let's talk about the Innovation Portal











Unleashing the innovation potential for digital transformation of the European Agrifood Sector

Open Call Network Library Training Calendar Lessons Tools Forum Latest



Discover the great SmartAgriHubs community and the latest developments in the EU agri-tech sector

Regional cluster Sector

Q Keyword...

Search

X2.0 launches the 2nd Open Call in AgriTech

X2.0 offers opportunities for players in the Agritech sector.



EVENT Rotterdam, the Netherlands Geospatial World Forum (GWF2023): Geospatial Caravan: Embracing One & **EVENT** Bilbao, Spain

Food4Future. Bilbao Foodtech World Summit

16 and 17 May 2023 | Bilbao The food industry is immersed in a complete revolution. It has been called the Food-tech revolution. And there is not only a challenge to face. There is not only one protagonist. From industry to consumers, we must think on sustainable terms, local consumption a...





EVENT Brno, Republic Czech

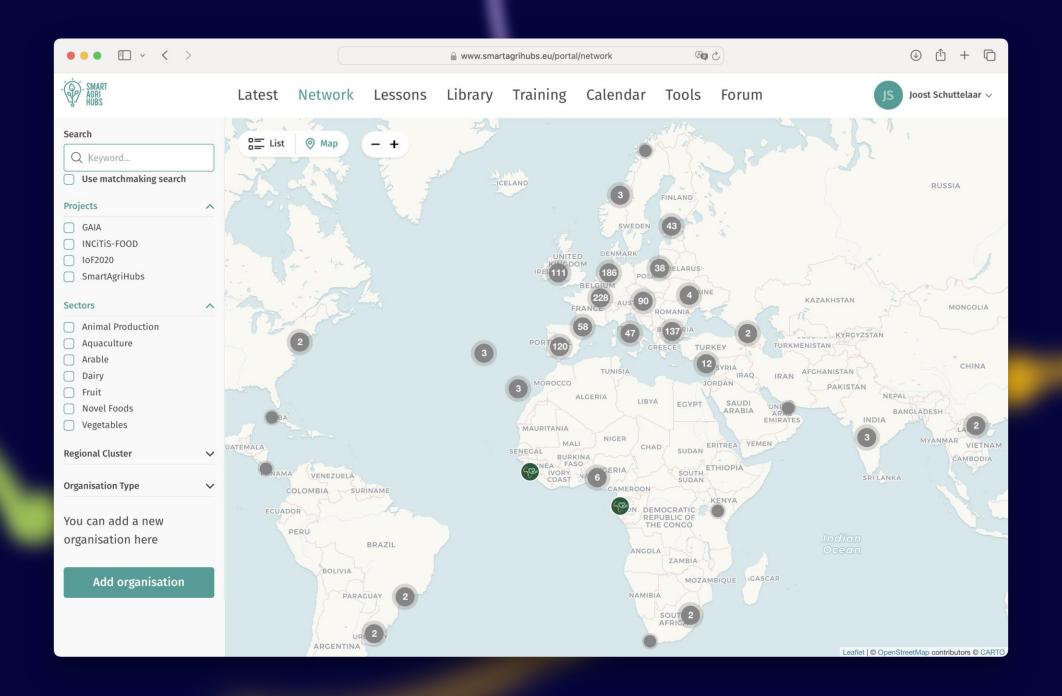
EBN Congress 2023

13 to 15 June 2023 | Brno The urgency for innovation is rising. The uncertainty of our times, caused by back-to-back global crises and existential challenges, must be tackled through innovation. The development of new technologies, business models, and tools is required at a pace...





Potsdam International Forum -**Innovation Hubs for Regional**













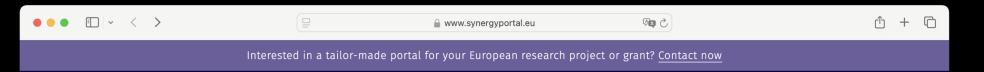




Synergy Portal

Login at:

www.synerg yportal.eu





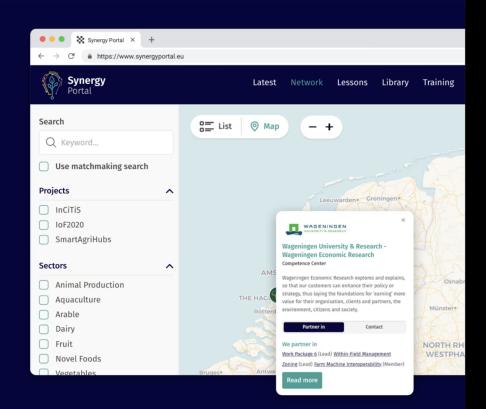
Synergy Days Contact Get started Log in

Amplify Your AgriTech Innovations

Are you leading a groundbreaking research project or an innovative solution in the AgriTech sector? The Synergy Portal is here to help you maximize the visibility and impact of your work.

Join now and connect with a broad network of professionals, innovators, and organizations across Europe.

Get Started



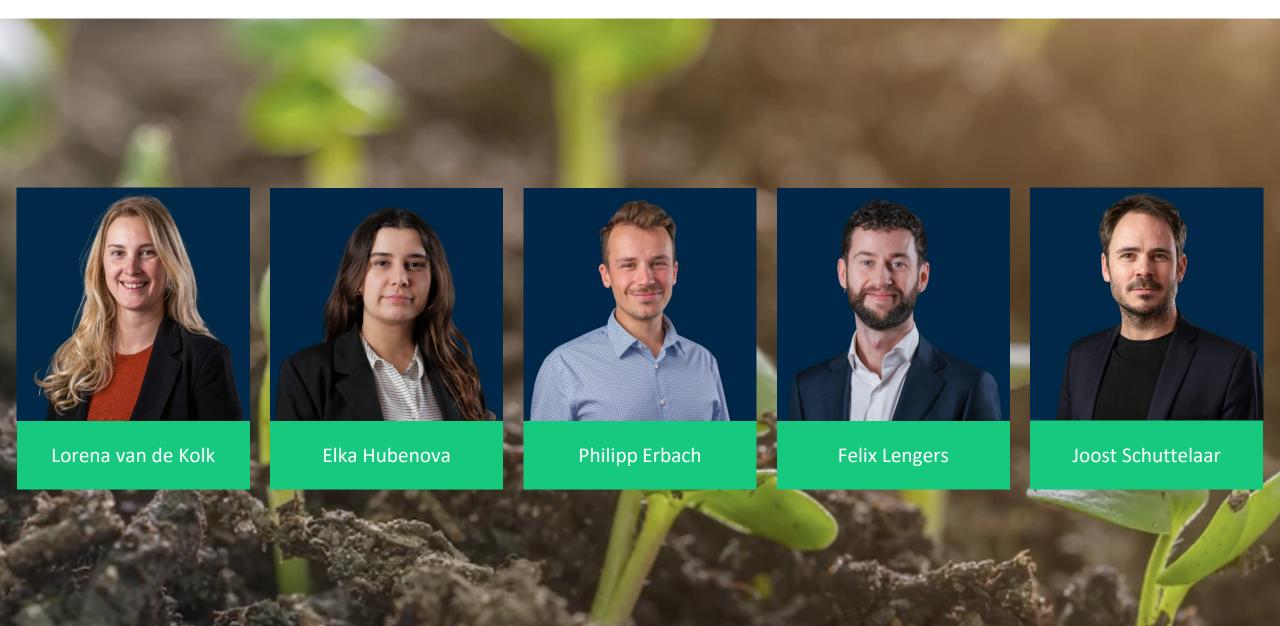
Why Choose the Synergy Portal?











Sign up at www.synergyportal.eu

-and-

Enjoy Synergy Days 2024!





Food and Innovation: Why It's Time to Take Food Processing Seriously



Food & Innovation

Why it's time to take food processing seriously!

Welcome & panelists

Wim Haentjens, Policy Officer, DG Research & Innovation

Veerle De Graef, Programme Manager, Flanders' FOOD

Prof. Laurette Dube, Professor, McGill University

Gert-Jan van Fessem, Owner, Food For Analytics

Moderator:

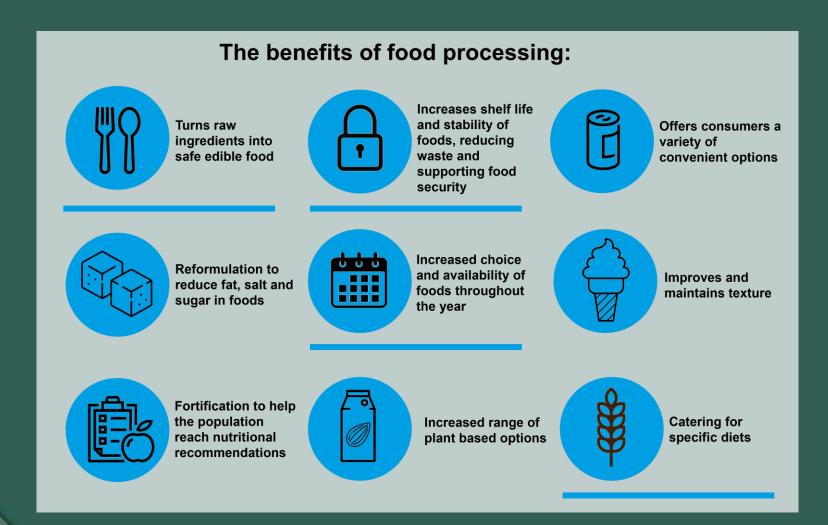
Simon Maas, International Collaboration & Projects, AgriFood Capital

Food processing: what are we talking about?

		Food Technologies				
		Traditional	Novel			
			Applicable	Emerging		
		Washing	Robotics	Additive Manufacturing		
	Physical	Cutting	Extrusion	Nanotechnology		
		Mixing	Modified Atmospheres	Edible Coating		
Principle		Forming	Membrane Separation	Membrane Emulsification		
	Physicochemical	Frying Baking Boiling	Ohmic Heating Microwave Heating High Pressure Processing	UV & Pulsed Light		
		Blanching	HPP	Pulsed X-Rays		
		Thawing	Irradiation	Cold Plasma		
		Fermentation	Ultrasound	Oscillating Magnetic Fields		
		Distillation	Pulsed Electric Fields	Vacuum Cooling		
		Drying	Freeze Drying	High Pressure Freezing		
		Pasteurisation	Osmotic Dehydration	Electric Arc Discharges		
		Heat Sterilisation	Spray Drying	Microfluidics		
		Chilling Freezing	Superheated Steam Drying			
Source: A Methodology to Assess the Suitability of Food Processing Technologies for Distributed Localised Manufacturing, Pedro Gimenez-Escalante and Si						

Source: A Methodology to Assess the Suitability of Food Processing Technologies for Distributed Localised Manufacturing, Pedro Gimenez-Escalante and Shahin Rahimifard (2019)

Food processing: why?



Food processing: is it really relevant?



Unleashing Europe's largest manufacturing industry

The size, scale and strategic importance of the industry demonstrates why food and drink should be at the heart of the EU's competitiveness, sustainability and security ambition.

291,000 manufacturers:

The EU hosts 291,000 food and drink companies, of which 99% are SMEs, with a collective turnover of €1.1 trillion

Largest employer in manufacturing:

The sector provides 4.6 million jobs, paying €110 billion in wages

Supporting Europe's rural communities:

Processing companies are part of Europe's rural socio-economic and cultural DNA

Closely connected to European agriculture:

The sector turns approx. 70% of Europe's farmers' produce into high value-added products

Mostly micro enterprises:

235,000 food and drink companies employ fewer than 9 people

#1 exporter:

The EU is the world's #1 food and drink exporter, with €182 billion in exports (and #2 importer)

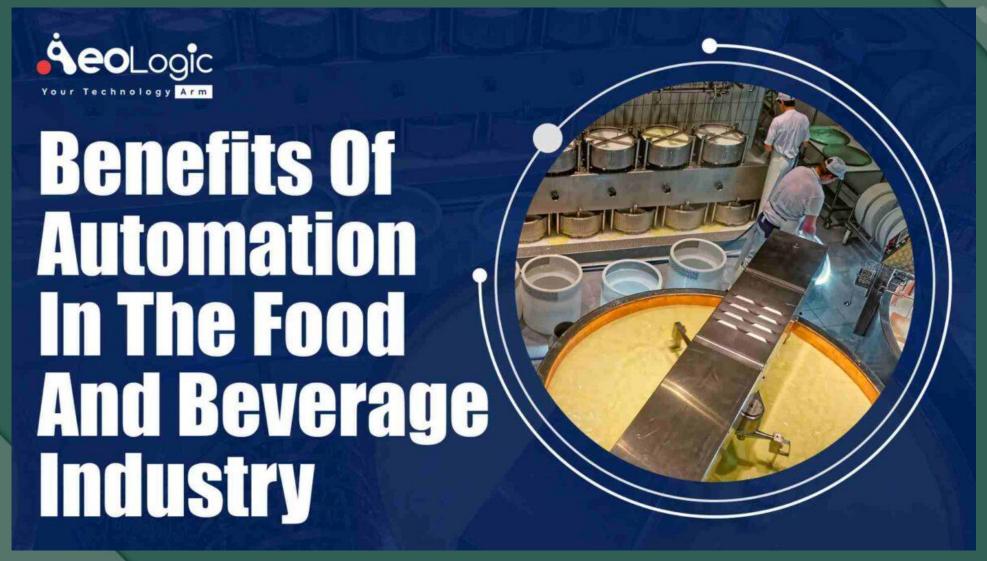
Investing in innovation:

€2.1 billion is spent on research and innovation by just 10 EU companies

Reaching consumers with 1.5 billion meals a day:

The sector takes pride in producing safe, quality food and drink products which are enjoyed all over the world

Food processing: time to go digital!

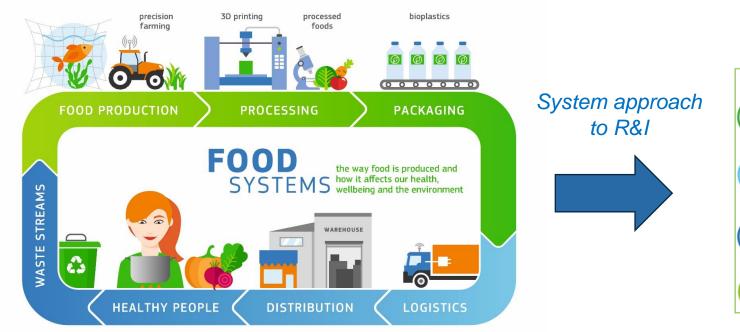


Future-proofing food systems Which data sets will drive change?

Wim HAENTJENS, European Commission, DG Research & Innovation Unit "Bioeconomy & Food Systems"



R&I framework to future-proofing food systems





- R&I programming under Horizon Europe/ Pillar 2: co-creation to ensure system approach
- Over 100 Projects over 760 M EUR (for Food 2030's 11 "Pathways for Change")
- New: Horizon Europe partnership "FutureFoods", 29 countries, 529 M EUR, 10 years



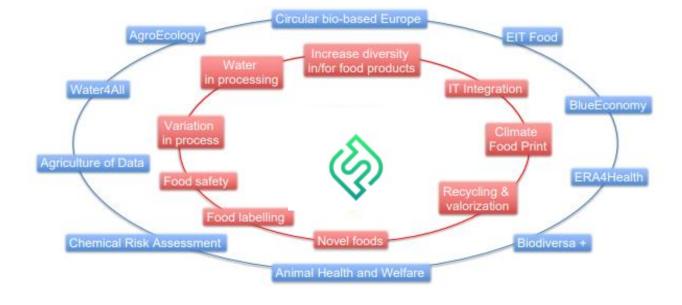
The new FutureFoodS Partnership Transforming our food systems to be more sustainable, safe, healthy, resilient and trusted

Website FutureFoodS Cash-funders In-kind contributors Cash-funders + in-kind contributors In-kind contributors: + Georgia Research and Innovation

FutureFoodS key facts



- 84 partners from 29 countries
- Operative within the next 10 years with a total anticipated budget of EUR 529 Mio. (30% co-fund rate)
- Part of a partnership landscape.



What data sets will drive change?

- What are key challenges to which data sharing can make a difference?
 - Challenges shared between: Food processors, Consumers, EU and Member State policy makers
 - Challenges like: Energy, water, consumer labelling on health & sustainability
- Which data sets could be prioritized?
- What is missing to build these data sets? What are research gaps?



Food processing SMEs: small scale, big impact

Veerle De Graef, Programme manager Flanders' FOOD

Food processing SMEs



99% of the EU food processing industry



High level of diversity: products, processes, ...



Shared challenges: improve efficiency to make production more environmentally sustainable



Shared solutions: Technology and digitalisation are key components of SME growth

Connecting challenges to solutions











Sensors to monitor real-time critical control parameters



Sensor integration and implementation



Smart data management



Connectivity in food companies and in the food value chain

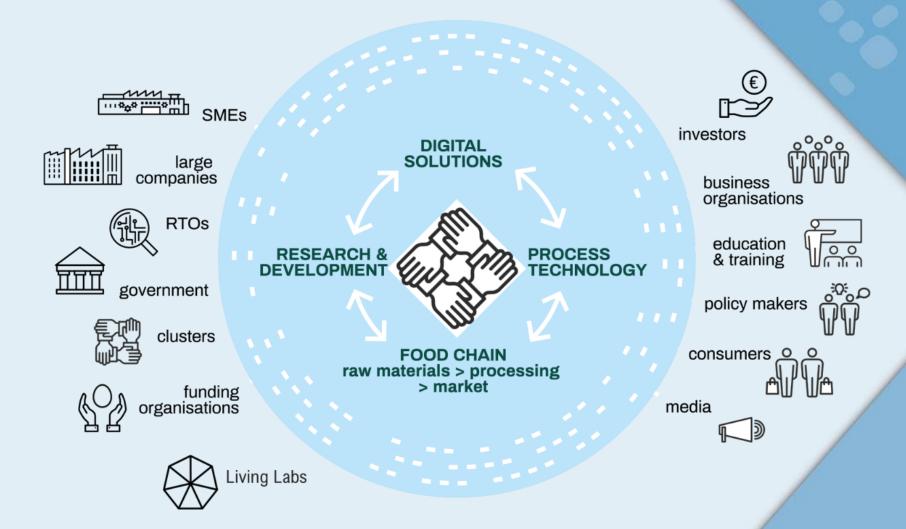


Human centric transformation and implementation strategy

Connecting the ecosystem

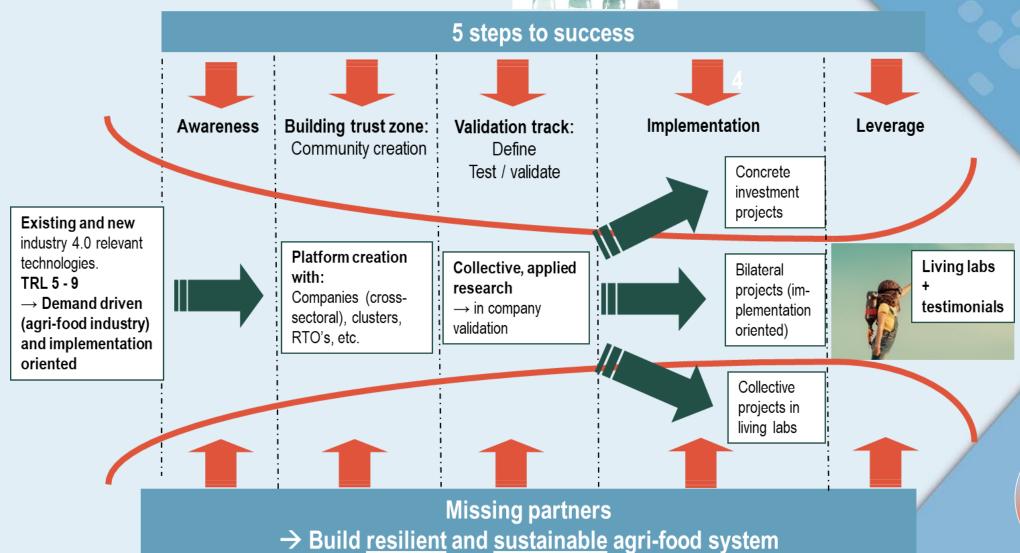
Clusters as linking pin

Trust
Proximity
Collaboration



Stepwise approach





SMART SENSORS AGRI FOOD

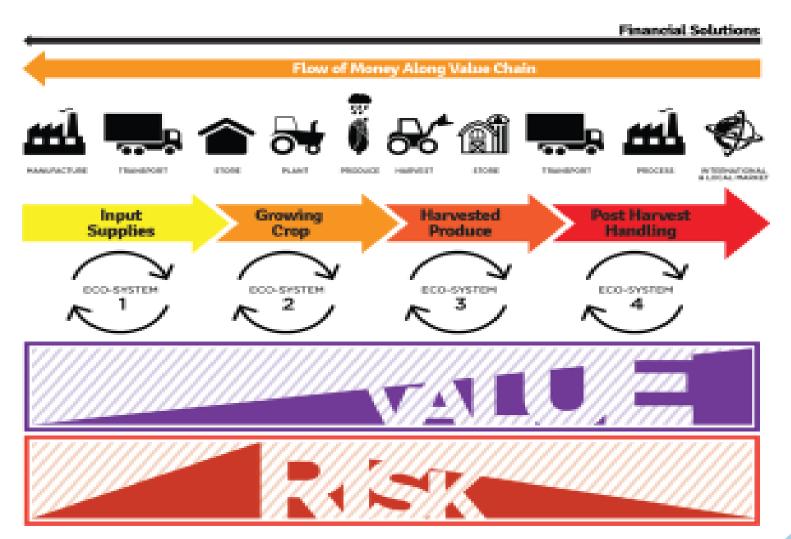
Food processing Innovation:

Entry points for a Digital-Powered
World Reset from Economic Convergence to
Convergence Economy

Laurette Dube Professor McGill University

Diversity in Ability to Bear the Brunt of Value vs Risk Inequality Along the Chain and Over Time and Jurisdiction





foodsafety4africa.eu

Accelerating the Development of "Mezzanine" level for All Actors in Traditional and Modern Agri-Food Systems





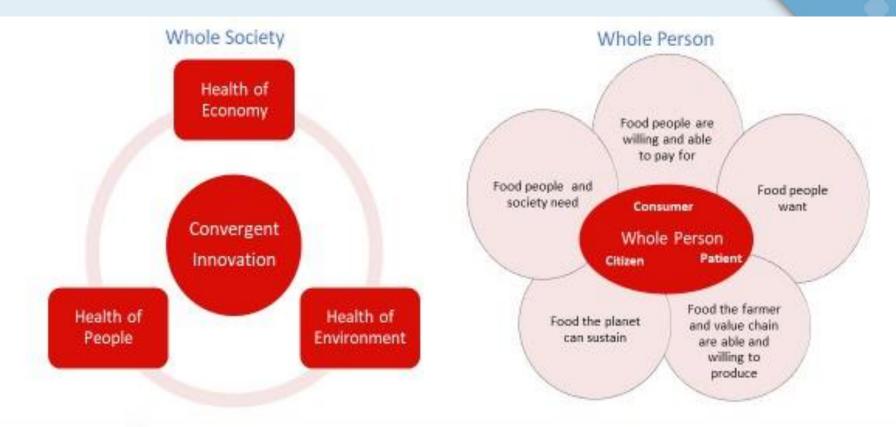


- Access to profitable local and regional markets
- Development of Cooperatives
- Build core capabilities
- Digitall literacy
- Digital empowerment: farming and food processing practice, traceability, market access





Convergence Innovation-Food



Mission

A transformational discovery & innovation platform to produce, promote and consume food that sustains the health of people, planet and economy for sustainable development and affordable healthcare

















Centre for the Convergence of Health and Economics

Data-driven solutions for the food industry

Gert-Jan van Fessem, Owner Food For Analytics

Gert-Jan van Fessem | Food For Analytics

Hobbies:

Working out

Foody

Education:

Avans Hogeschool (Accountancy)

Post HBO Master Business Information

Executive Master Finance & Control

Carreer till now:

CSB-System SA (1997 – 2015)

Self-employed (2016 – present)

VION (2016 – 2023)

Food For Analytics co-founder (2018 – present)

Food For Analytics

FFA Titan is our ISO27001 certified data analytics platform that acts as your digital twin.

Food For Analytics provides a scalable, flexible and robust platform to enable decission making.

Food For Analytics enables organizations to collect, connect and consume the relevant internal and external data.



Food & Innovation

Why it's time to take **food processing** seriously!





Smart Farming





Smart Farming

Moderated by Vanja Bisevac, European Agricultural Machinery Association (CEMA)

Francesco Iadecola

Research Programme Officer, DG AGRI, European Commission

Ignacio Ruiz

Secretary General, ANSEMAT

Dr. Filippo Maria Renga

Founder of the Smart AgriFood Observatory, Digital Innovation Observatories, Politecnico di Milano





EU policies and R&I priorities supporting digitalisation of agriculture and rural areas

SYNERGY DAYS

Barcelona, Spain 14 October 2024

Francesco ladecola, European Commission DG AGRI – Unit F2. Research and Innovation

EU policy priorities for agriculture, forestry, rural areas and digitalisation





The 'Path to the Digital Decade' programme sets out concrete digital targets that the EU member states should reach by 2030 in four areas: skills, infrastructures, businesses and public services.

by 2030





NEW EU FOREST STRATEGY FOR 2030







EU COMMON AGRICULTURAL POLICY



Europe fit for the Digital Age

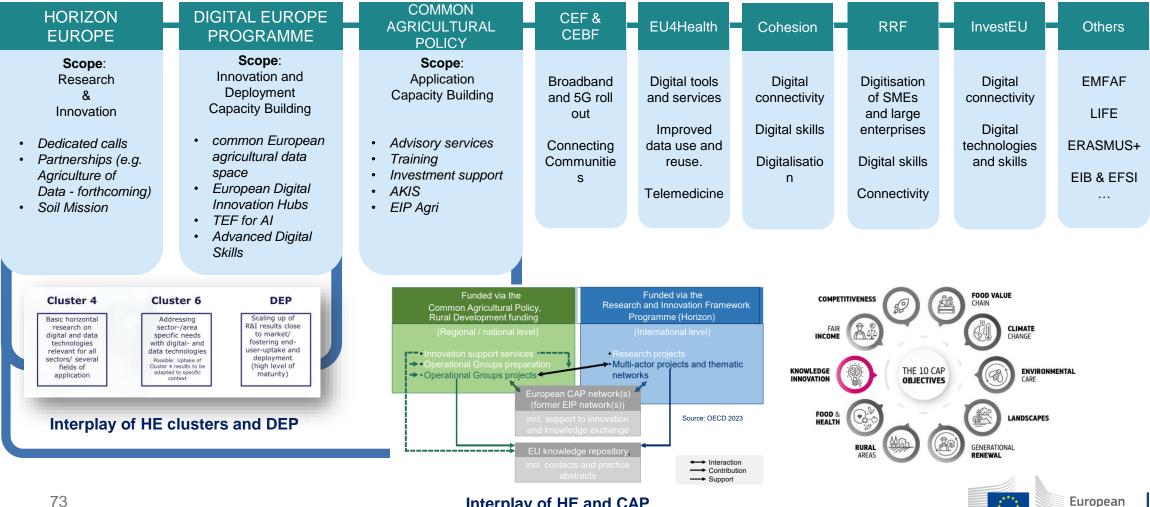




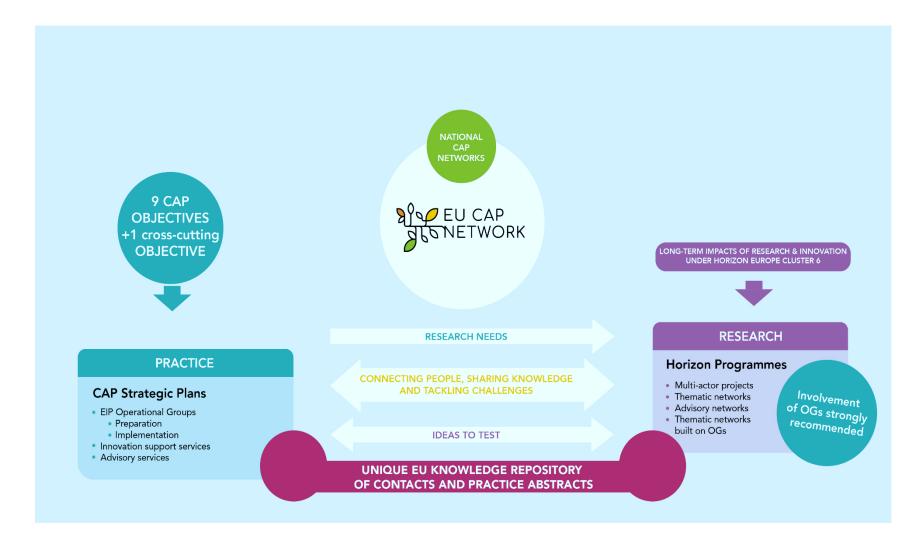




Innovation & Digital technologies: complementarity of EU actions



EIP-AGRI bridging practice and research





Operational Group nominee for the EIP-AGRI Innovation Awards 2024

Digitalisation



EIP-AGRI Operational Groups that demonstrate how digitalisation has great potential to increase profitability, improve working conditions for farmers, foresters and others, as well as to improve the environmental and climate impact of agriculture and forestry.

Precision liming in Brandenburg

In Brandenburg (Germany), only 26% of arable land is in the optimal soil pH range, which results in considerable yield losses and reduced nutrient efficiency. To counteract soil acidification, this Operational Group has developed a **fully digitised site-specific soil acidity management** process and **decision support system** for **variable-rate liming**. It **includes sensor-based mapping**, a novel approach for lime requirement calculation and generates **variable-rate lime application maps**. The partnership consisted of research institutes, three farms, a consulting company and an IT service provider. The tool can also be used **in various other smart farming applications throughout Germany**.



CHECK THE **VIDEO PRESENTATION**HERE!





What are the EU agricultural R&I priorities?

































AgriResearch Factsheets





Innovation and digital technologies for farmers and rural communities

Horizon Europe Cluster 6 fosters research and innovation in food, agriculture, rural development, environment and the bioeconomy.

DIGITAL AND DATA PROJECTS FOR AGRICULTURE AND RURAL AREAS Key topics (2021-2024):

Assessing the impacts of digital technologies in agriculture

Data economy: effects of data sharing

Digital and data technologies for livestock tracking

Open source solutions for edge, cloud and mixed model

Markets for data, and digital technologies and infrastructure

Enhancing working conditions and strengthening the work force through digital and data technologies

Potential of drones as multipurpose vehicle

Digital technologies for smalland medium-sized, farms and farm structures

Blockchain technologies in the agri-food sector

Smart XG, last-mile and edge solutions for remote farming, forestry and rural areas

Upscaling (real-time) sensor data for EU-wide monitoring of production and agrienvironmental conditions

Digital technologies supporting plant health early detection, territory surveillance and phytosanitary measures

Digitalisation as an enabler of agroecological farming systems













MISSION SOIL:

Validating and further developing indicators for soil health and functions

On site digital technologies to monitor stressors in plant and soil



WHEATWATCHER E-SPFdigit



R&I and digitalisation role for smart farming and rural areas

R&I has pivotal role to play to boost effectiveness, acceptance, and uptake of innovation and digital technologies, e.g. by



Increasing cost-effectiveness of digital solutions



Enhancing performance assessment opportunities



Developing technical solutions facilitating trust in data sharing

Data and digital technologies are instrumental to achieve competitiveness, environmental and socioeconomic sustainability ambitions for agriculture and rural areas, for instance by:



- Supporting farmer's decisions
- Optimising the use of resources
- Automatising tasks
- Improving traceability and transparency along the supply chain
- Help farmers deal with greater complexity of sustainable farming approaches



- Providing access to e-services such as eHealth, retail, online banking
- Supporting decision making
- Access to information, entertainment and knowledge exchange
- Business opportunities

European Commission

Interactive innovation model

→ multi-actor approach



"We do not only do R&I for practitioners, but also with practitioners."

- Commissioner Janusz Wojciechowski

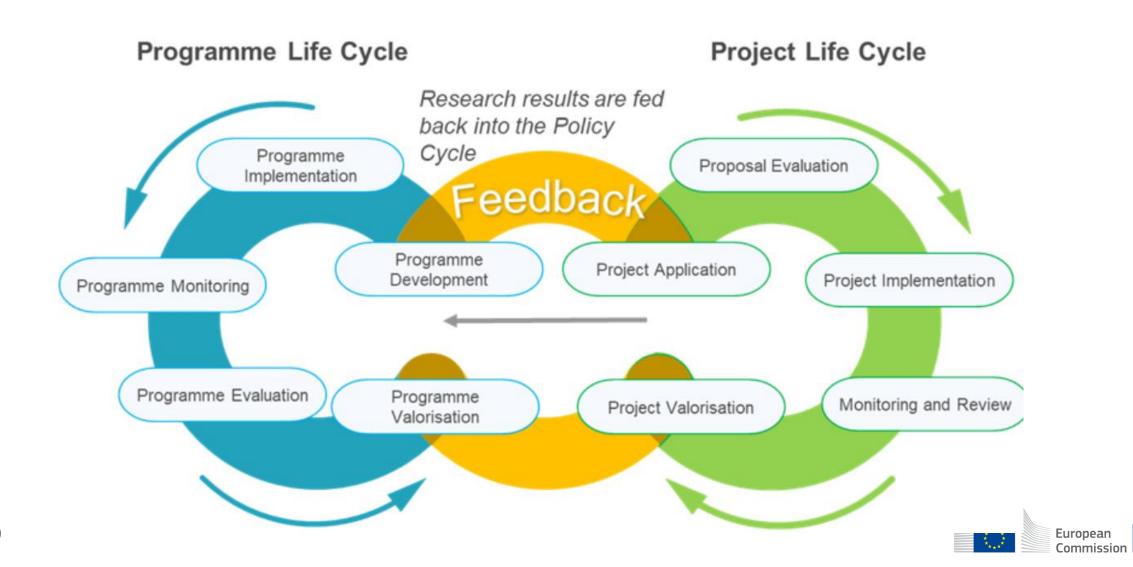
Practitioners (end-users) are put at the **center** of the R&I activities **all over the whole course** of the project.

- ✓ their practical expertise is used to cocreate innovative solutions;
- ✓ it makes them **co-owner** of the results;
- ✓ they implement them in practice;
- ✓ they share them in peer-to-peer meetings

In this way we can achieve much quicker and bigger impact in practice!



Feedback to Policy



Horizon Europe: Strategic Plan 2025-2027

- R&I supporting the **digital transformation** of food systems and agriculture, forestry, fisheries and aquaculture sectors will increase their sustainability.
- Emphasis will be placed on the use of data in agriculture and sustainability performance of applied digital and data technologies.
- The data governance including the sharing of data will be taken into account.
- The opportunities that **environmental observations** and use of data might offer to enable sustainable, resilient, effective and efficient food systems could be further explored
- Environmental observations will be made more accessible and interoperable, building user-tailored, integrated products and metrics using advanced **digital methodologies including Al.**



Draft Work Programme Q2-Q3 2024 Procedural steps towards adoption (incl. PC consultation)
Q1 2025





Q4 2024

New College and finalisation of draft WP



Adoption of main WP 2025





European Partnership Agriculture of Data

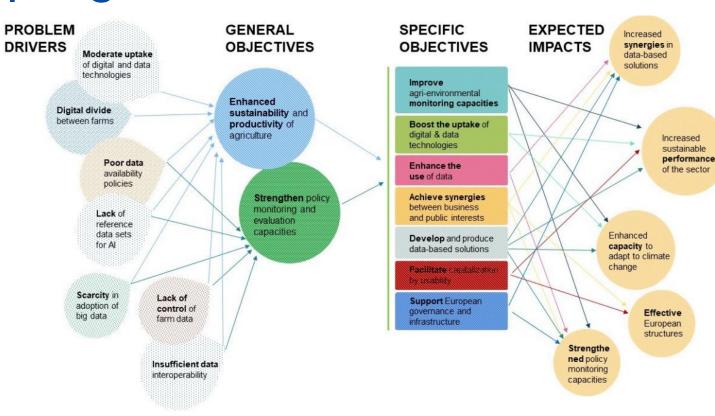
What: Support sustainable agriculture in Europe as well as policy monitoring and implementation by using the possibilities offered by digital and data technologies in combination with environmental observation and other agricultural data

Who: Co-funded by EU, with Member States and Associated Countries, involving ministries, funding organizations, research organisations, and key stakeholders (policy makers, sectoral organisations, space agencies, industry, etc.)

How: Capitalisation of data through the development of innovative data-based solutions and services for the private and public domain, and scaling them up

Where: Europe-wide

When: from 2025; 7-10 years duration







EUROPE'S CHOICE

POLITICAL GUIDELINES FOR THE NEXT EUROPEAN COMMISSION 2024–2029

Ursula von der Leyen

Candidate for the European Commission President

"Farming is a core part of the European way of life and it must always stay that way"

"Put **research and innovation** at the heart of our economy"

"Boost productivity with digital tech diffusion"



Concluding remarks

- Several key initiatives at EU level supporting advancements in innovation, digital and data technologies for agriculture have been launched and new ones will start soon.
- Involvement of end users in the co-creation of **innovative solutions** is essential to **foster** their uptake and improve their effectiveness.
- Active exchanges across the actors involved in the innovation ecosystem (e.g. end users, industry, policy-makers) are necessary to fully exploit its potential for the agricultural sector and beyond.
- **Digital and data technologies** will continue to play a role in the future of EU agriculture by leveraging their **potential to address different challenges** (e.g. competitiveness, sustainability, resilience, profitability of the sector) and by **adapting** to **specific needs**.



Looking Ahead: EU Agri-Food-days



Programme

This year's event programme includes sessions on:

- the future of agriculture and food, building on the conclusions of the Strategic Dialogue and in light of the upcoming Vision for Agriculture and Food,
- the farmers' perspective on navigating modern agriculture,
- the position of farmers in the food value chain,
- the outlook for EU agricultural markets, including drivers, trends, challenges and opportunities,
- sustainable competitiveness and trade policies supporting food sovereignty,
- research and innovation for a competitive, sustainable and resilient agricultural sector,
- how digitalisation and data sharing contribute to a dynamic and forward-looking sector and
- what it is like to be a young farmer today.

More info:EU Agri-Food Days - European Commission (europa.eu)



Thank you



© European Union 2024

Unless otherwise noted the reuse of this presentation is authorised under the <u>CC BY 4.0</u> license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.



EU strategy for digitalisation in agriculture and rural areas



- This foresight exercise aims to explore the interplay between digital transition, policies and the resilience of the agricultural sector and rural areas, against the backdrop of potential disruptive and transformative changes.
- Several workshops have been organized with COM experts, MS representatives and other stakeholders to discuss elements of the future strategy, such as enablers and building blocks.
- Ongoing reflections on how this will be integrated into future policies.



Uptake: JRC Study

- Survey-based study on the state of play of Digitalisation in EU agriculture:
 - assessment of the state of play of digitalization in the EU agriculture.
 - It covers technologies such as precision farming, real time applications, terrestrial and aerial drones, tools on prices, sensors, artificial intelligence, blockchain, satellite imagery, big data and analytics, agricultural decision support systems, etc
 - investigate (i) the use of digital technologies and services on the farm, the scope of their use and its implications for sustainability and resilience, (ii) bottlenecks and drivers for the adoption of digitalization, by investigating financial support (i.e. investments, credits) and support services (such as advisors), infrastructure, skills and digital and data governance aspects, as well as (iii) the propensity of EU farmers to pursue investments in digitalization in the future. The target population of the survey will be EU farmers.
 - Results foreseen by end of 2024



Smart Farming

Moderated by Vanja Bisevac, European Agricultural Machinery Association (CEMA)

Francesco Iadecola

Research Programme Officer, DG AGRI, European Commission

Ignacio Ruiz

Secretary General, ANSEMAT

Dr. Filippo Maria Renga

Founder of the Smart AgriFood Observatory, Digital Innovation Observatories, Politecnico di Milano





