

Long term vision for European smart farming & role of large scale pilot

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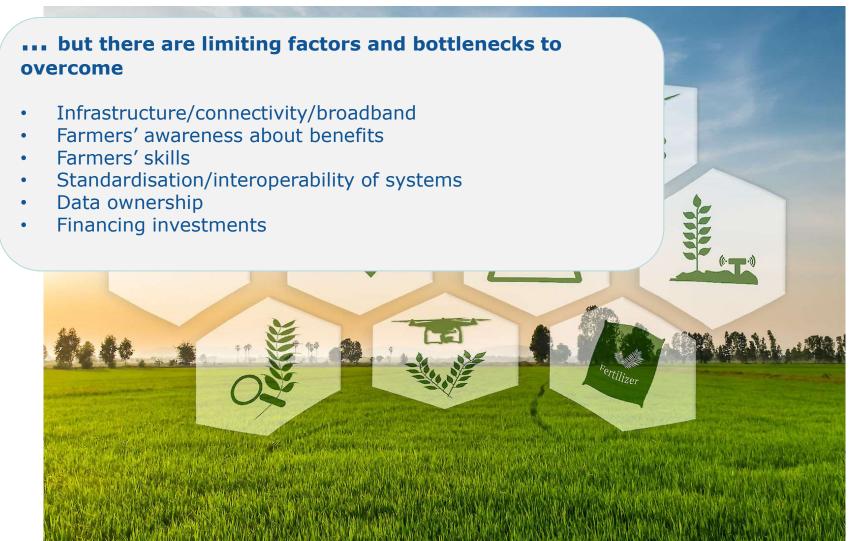














... but there are limiting factors and bottlenecks to overcome

- Infrastructure/connectivity/broadband
- Farmers' awareness about benefits
- Farmers' skills
- Standardisation/interoperability of systems
- Data ownership
- Financing investments



- generations)
- Data governance
- Increased concentration in the agri-food chain
- Uncertain impact on jobs
- Socio-economic impact overall



EU policy context



https://ec.europa.eu/digital-single-market/en/policies/digitisingeuropean-industry

https://ec.europa.eu/digital-single-market/en/policies/buildingeuropean-data-economy



https://ec.europa.eu/agriculture/events/ruraldevelopment-2016 en



Digital Agenda: Integrative approach



- CAP
- H2020, Horizon Europe
- DEI, DEP
- Cohesion policy



- CAP strategic plans
- National digital strategies
- AKIS



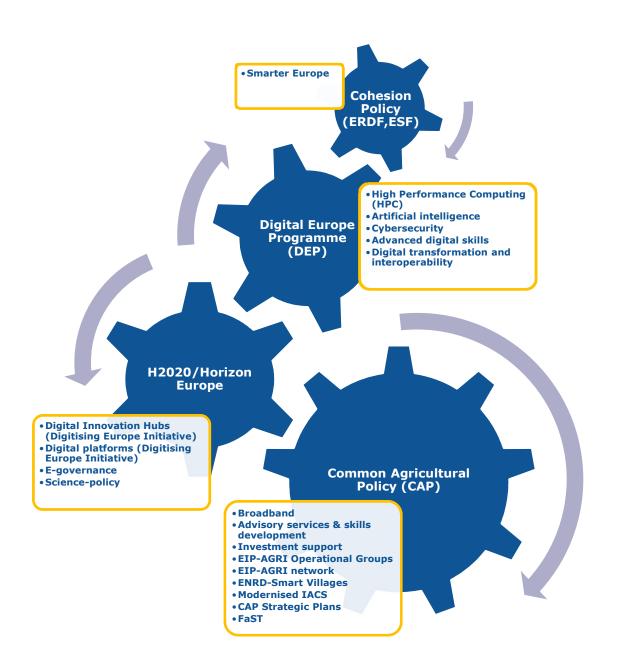
- Digital Innovation Hubs, platforms
- Smart Specialization Strategy



- Broadband
- Smart villages
- EIP Operational Groups

Uptake - Innovation - Impact

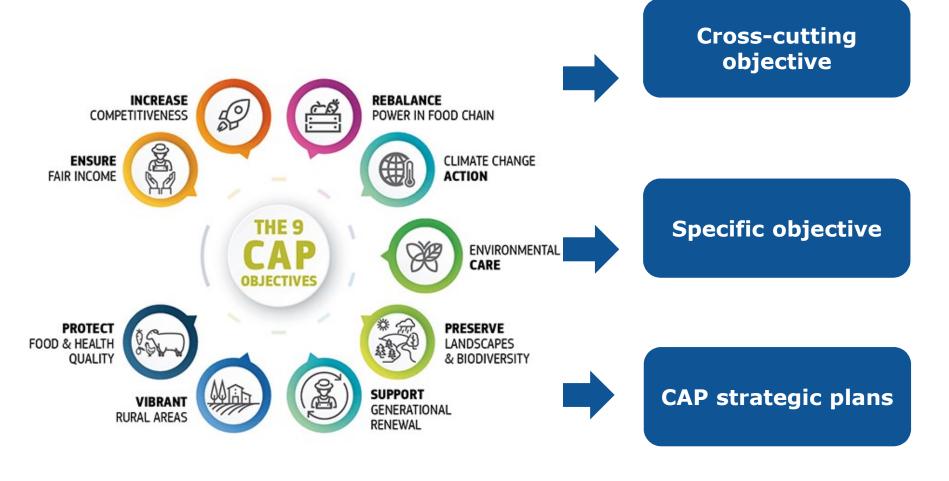




If well combined,
the different
instruments
available
can constitute a
powerful
framework for the
digitalisation of
agriculture and
rural areas

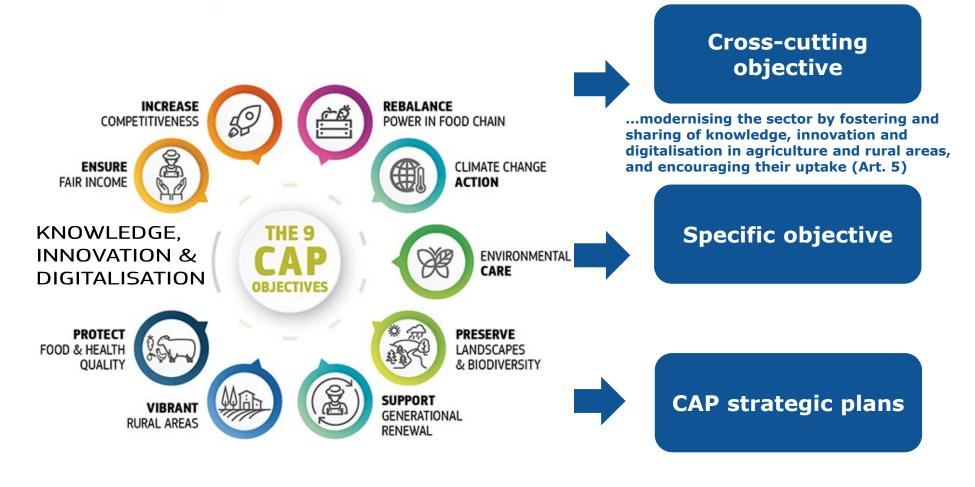


More digitalisation and innovation



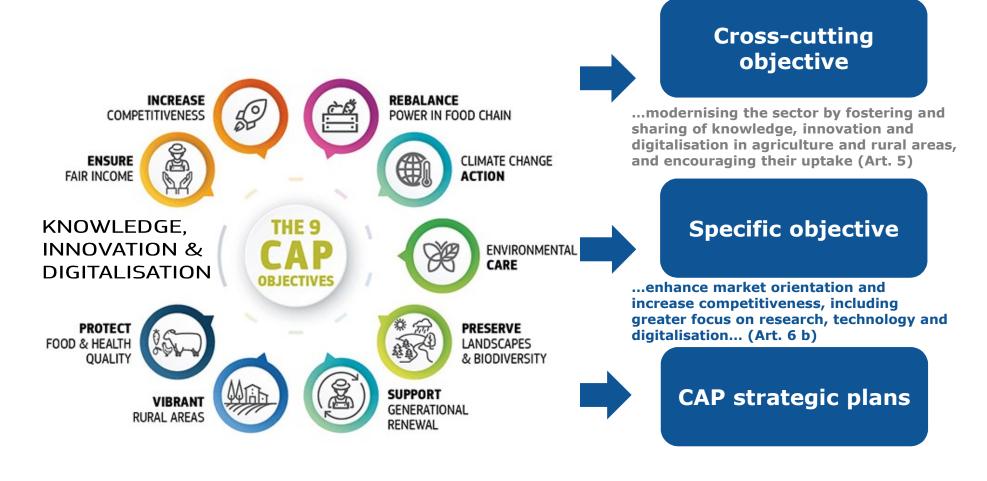


More digitalisation and innovation



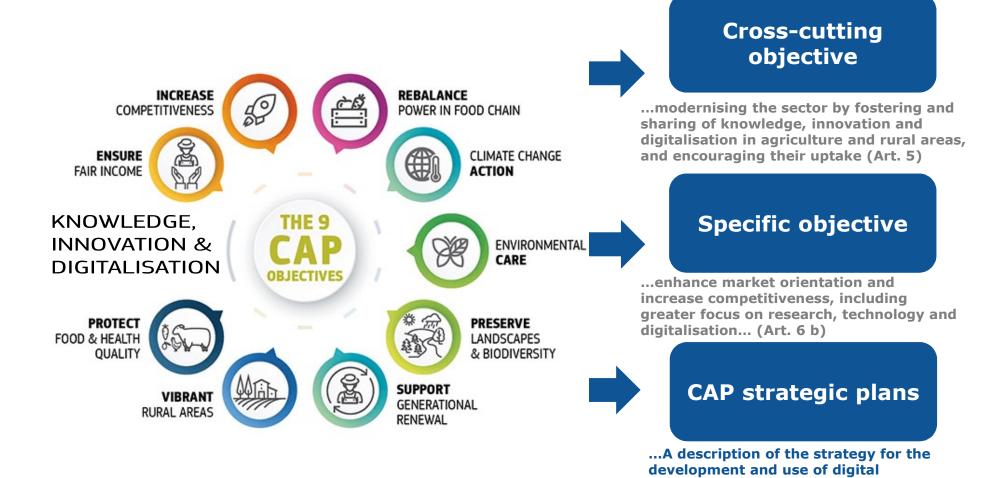


More digitalisation and innovation





More digitalisation and innovation



technologies in agriculture and rural

European Commission

areas... (Art.102)

Research & Innovation



H2020 WP 2018-2020 Topics: Digital transformation in agriculture and rural areas

Uptake

Technology Development

Impact

IoT-01-2016 - Large Scale Pilots **IoF2020**

DT-RUR-12-2018 - ICT Innovation for Agriculture - Digital Innovation Hubs for Agriculture SmartAgriHubs

ISIB-02-2015 - Closing the research and innovation divide - Thematic network:

4D4F/Smart-AKIS

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

FAIRSHARE

RUR-20-2018 - Digital solutions and e-tools to modernise the CAP

NIVA

DT-ICT-09-2020 -Digital service platforms for rural economies

DT-ICT-08-2019 -Agricultural digital integration platforms

DEMETER & ATLAS

RUR-02-2018 - Socioeconomic impacts of digitalisation of agriculture and rural areas

DESIRA

Other SFS topic supporting the Focus Area "Digitising and transforming EU industry and services: DT-SFS-14-2018: Personal nutrition, DT-SFS-26-2019: Food cloud demonstrator



CAP /Rural development (regional/national level)











funded by European Commission

EIP network(s)

CAP /Rural development (regional/national level)







- Research projects (knowledge base)
- Multi-actor projects and thematic networks (interactive innovation)

Funding for:

OG preparation
OG projects
Innovation support services

CAP /Rural development (regional/national level)







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- Multi-actor projects and thematic networks (interactive innovation)

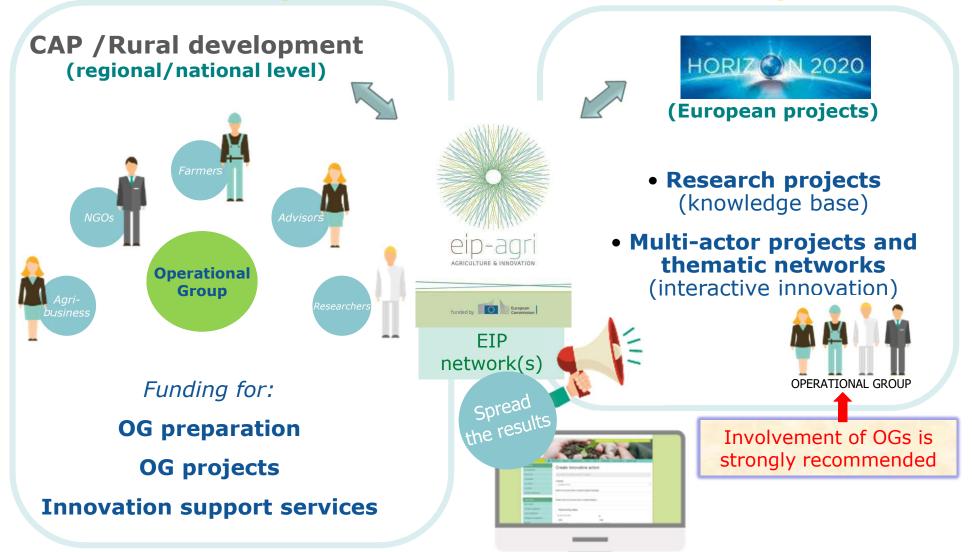


Involvement of OGs is strongly recommended

Funding for:

OG preparation
OG projects

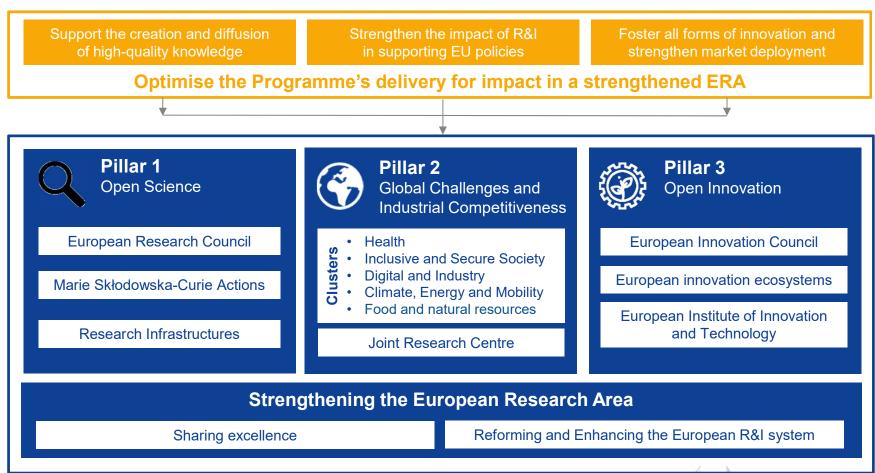
Innovation support services



Unique EU knowledge repository of contacts and practice abstracts

Horizon Europe: the next research and innovation framework programme 2021-2027

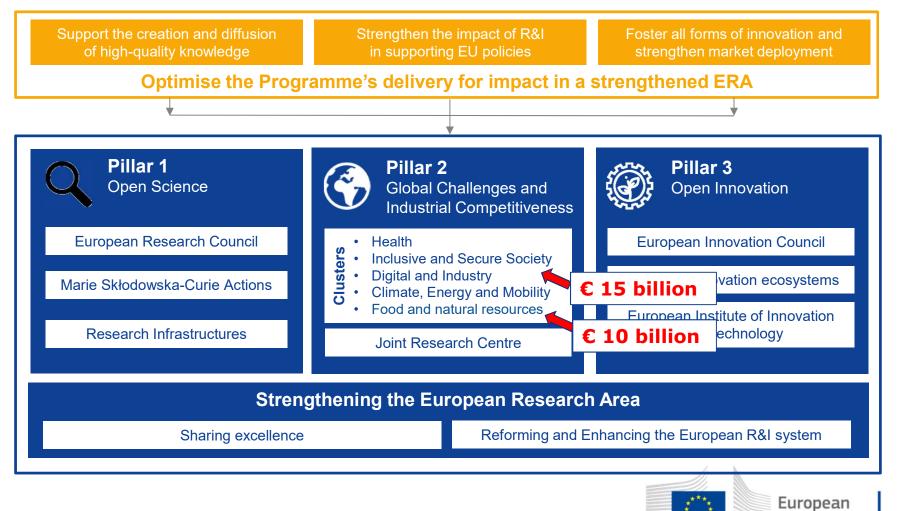
Specific objectives of the Programme





Horizon Europe: the next research and innovation framework programme 2021-2027

Specific objectives of the Programme



Commission

Declaration

A smart and sustainable digital future for European agriculture and rural areas



Member States commit to work together on

- (i) Strengthening support for research
- (ii)Establishing innovation infrastructure for a smart agri-food sector
- (iii)Creating an European dataspace for smart-agrifood applications
- (iv)Maximising policy impact



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Conclusion

EC supports digitalisation and large scale pilots as key instruments to foster innovation in agriculture and rural area.











Several policy programmes facilitate the uptake of digital technologies to make the transition towards a more productive and sustainable farming sector possible.





"The best way to predict the future is to create it"

A. Lincoln

Useful links:

• CAP post 2020:

https://ec.europa.eu/info/food-farming-fisheries/key-policies/common-agricultural-policy/future-cap_en

• Horizon Europe (HE)

http://ec.europa.eu/horizon-europe

• Digitising European Industry (DEI)

https://ec.europa.eu/digital-single-market/en/pillars-digitising-european-industry-initiative

• Digital Europe Programme (DEP)

https://ec.europa.eu/digital-single-market/en/news/commission-welcomes-agreement-digital-europe-programme-2021-2027

New cohesion policy

https://ec.europa.eu/regional policy/en/2021 2027/

• Declaration 'A smart and sustainable digital future for European agriculture and rural areas' https://ec.europa.eu/digital-single-market/en/news/eu-member-states-join-forces-digitalisation-european-agriculture-and-rural-areas

European Commission



Thank you!

