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FiBL Europe 15 September 2020









Academy of Entrepreneurship<sup>®</sup>







I. Current Trends

2. Design and deployment of digital learning tools

3. Digital learning after COVID-19



#### Digital Transformation of Learning

### 1. Current Trends



#### Innovative ways of learnig





#### Innovative ways of learnig





#### Digital Transformation of Learning– Current Trends



## SKILLS FOR DIGITAL FARMING:

Needs, opportunities and challenges ahead

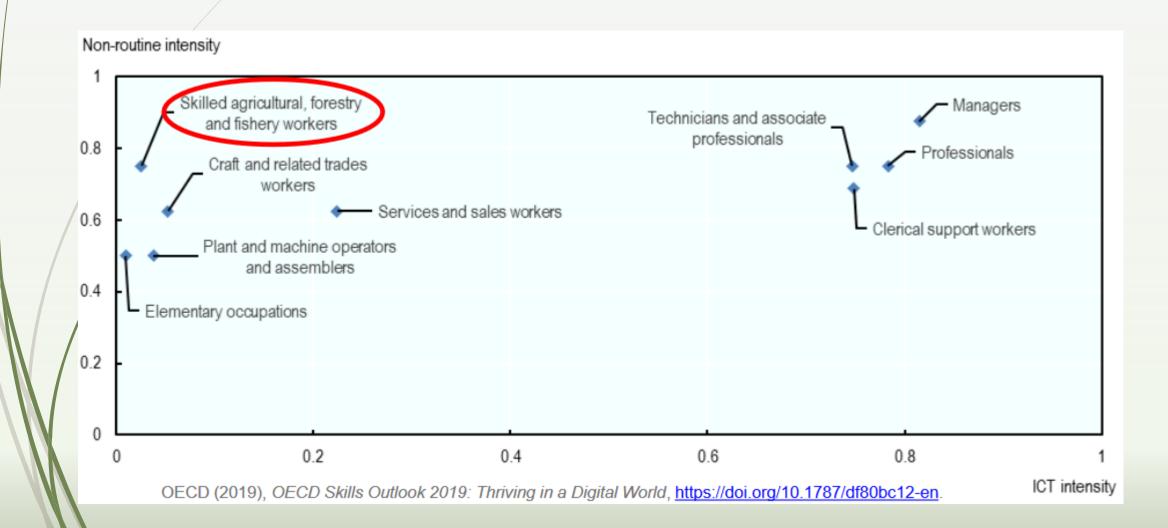


#### Digital opportunities for farmers

- Digital technologies for Farmers:
  - Mobile devices for acess to management and advisory services
  - Integrated digital farm (e.g. in-field sensors, farm machinery, IoT)
  - Access to knowledge sharing platforms, including vocational training
  - Interaction with governments and businesses in value chains:
    - Digital services (e.g. payment services)
    - Access to information (e.g. product prices and standards)



#### Digital Skills for farmers





#### Digital skills for farmers

Farmers need cross-cutting skills to benefit from digital technologies:

- Cognitive and analytical skills
- Basic ICT skills
- Awareness and trust on digital tools for support decision-making
- Navigating internet safely
- Softs skill



#### Challenge for agricultural education and VET

- 1. Develop soft skills as well as technical farming skills
- 2. Provide opportunites for lifelong learning
- 3. Adress barries for participation
- 4. Ensure that agricultural education is aligned with the needs of the sector
- 5. Integrate digital tools in agricultural education and VET
- 6. Address the skills divide

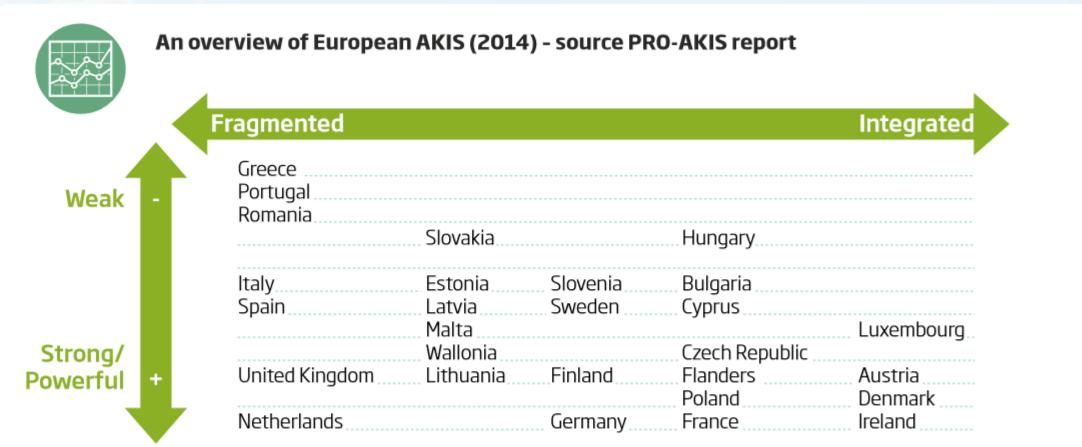


Common Agricultural Policy– Cross cutting objective

2018/0216 - Article (5) "cross-cutting objective of modernising the sector by fostering and sharing of knowledge, innovation and digitalisation in agriculture and rural areas, and encouraging their uptake."



Common Agricultural Policy– Cross cutting objective



source PRO-AKIS report



#### Common Agricultural Policy– Cross cutting objective





## What about organic?



#### Digital transformation of organic training

#### Organic farming training bottlenecks:

- Knowledge intensive system that need to be adapted to local agro-climatic conditions
- Access to knowledge is difficult due to farmers dispersion
- Lack of specific extension and advisiory services for organic farming
- Low uptake of oragnic farming training in public agricutIrual education systems
- Reluctance to some innovations developed in academic or research
  contexts
- Regulatory requirements and control systems add an extra layer of complexity for managing an organic farm



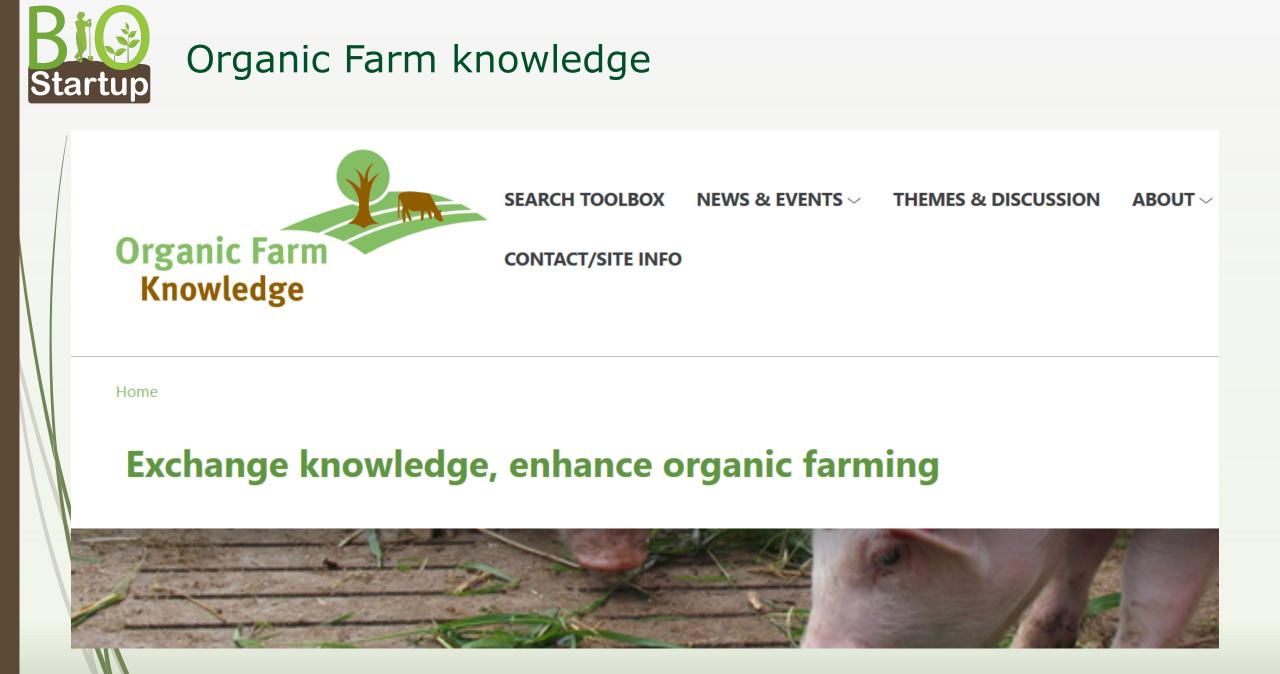
#### Digital transformation of organic training

Key recomendations for Organic farming training:

- 1. Further engagement of public bodies in organic training
- 2. Crop-specific programs in organic agriculture
- 3. Learning from existing best practices
- 4. Fully exploit the potential of ICT for training



## Do you agree with these recomendations?





## 2. Design and deployment of digital learning tools



## 2. Design and deployment of digital learning tools



#### European Innovation Partnership – EIP-AGRI



European Commission > EIP-AGRI

https://ec.europa.eu/eip/agriculture/en



### EIP-AGRI – Operational Groups

#### Projects - Operational groups

Fulltext search		Geographical location	Keywords						
Contains any	of these words	Choose some options	Choose some options	Search	Reset				
Brexit content disclaimer									
Projects found: 1539									
Published on	Title				Geographical location				
08/09/2020	GO SUBER: Global r organization and com	Spain							
08/09/2020	Operational Group of	Spain							
07/09/2020	Climate Change, what	France							
07/09/2020	The Operational Group aim at helping Center Val de Loire winegrowers to integrate global warming issues in their decisions								

https://ec.europa.eu/eip/agriculture/en



#### EIP-AGRI – Focus Groups



## EIP-AGRI Focus Groups state of play September 2020

		Main question	State of play
1	<b>Organic farming</b> – Optimising arable yields	Why do yields vary so much between organic farms; how can this yield gap be minimised?	Final report Factsheet Brochure
2	Protein crops	What does the feed sector need in terms of protein? Why is EU farming not able to deliver? Why is EU farming in protein crops not competitive? How can this be remedied?	Final report Factsheet Brochure
3	Animal husbandry - Reducing antibiotic use in pig farming	How to enhance animal health and welfare to reduce the need for antibiotics? What are the alternatives to antibiotics? How to change human habits, attitudes and behaviour in order to reduce the use of antibiotics in livestock production?	<u>Final report</u> <u>Factsheet</u> <u>Brochure</u>

https://ec.europa.eu/eip/agriculture/en



#### SmartAgriHubs – Digital Innovation in EU



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

https://www.smartagrihubs.eu/



#### SmartAgriHubs – Regional Clusters

#### Regional Clusters

- Central Europe
- France
- Iberia
- Ireland & UK
- Italy & Malta
- North-East Europe
- North-West Europe
- Scandinavia
- South-East Europe





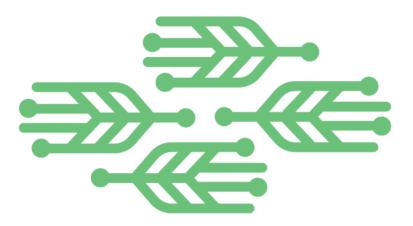


# **EURAKNOS**

Connecting Thematic Networks as Knowledge Reservoirs towards a European Agricultural Knowledge Innovation Open Source System

https://www.euraknos.eu/





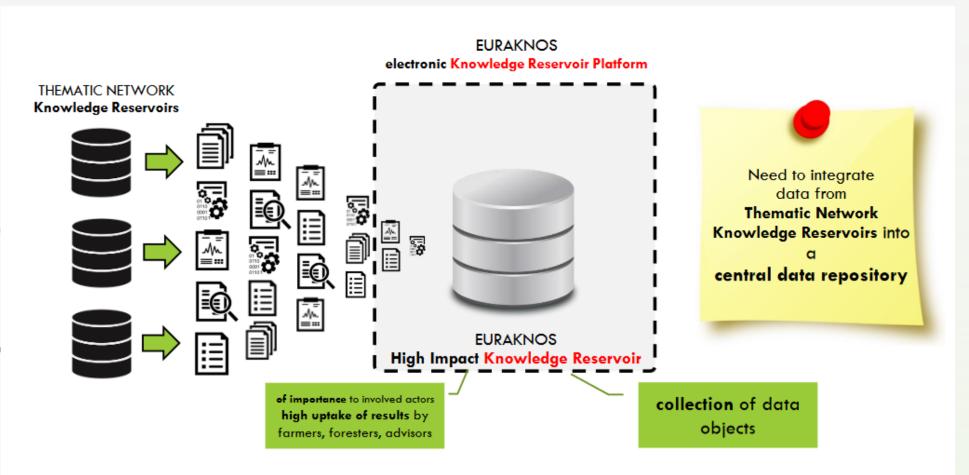
# EUREKA

European Knowledge Repository for best Agricultural Practices

https://h2020eureka.eu/



#### EUREKA&EURAKNOS







https://www.h2020fairshare.eu/







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	2				

#### **Connecting advisors**

to boost interactive innovation in agriculture & forestry

https://i2connect-h2020.eu/





#### PLAID PEER-TO-PEER LEARNING: ACCESSING INNOVATION THROUGH DEMONSTRATION

https://plaid-h2020.hutton.ac.uk/





#### FARMDEMO CONFERENCE PROJECT & PARTNERS

#### Visit the FarmDemo Hub

#### Visit the FarmDemo Networks

#### Visit the FarmDemo Training Kit

Browse our EU-wide inventory of demonstration farms, and register on the Hub to showcase your farm and demonstration activities

LEARN MORE

Discover the thematic networks of demonstration farms active in your region, and register to participate and learn

LEARN MORE

Find online tools, rich stories & video tutorials, and explore tips & tricks to improve your demonstrations

LEARN MORE

https://farmdemo.eu/





RÉSULTATS & RESSOURCES ÉVÉNEMENTS MÉDIAS



https://nefertiti-h2020.eu/?page\_id=4834&lang=fr



#### EIT Food – Educating for technology Take-off



https://www.eitfood.eu/Education/projects/educating-for-technology-take-off

## Big WiseFarmer – Connecting farm generations in the digital age



NEWS&EVENTS

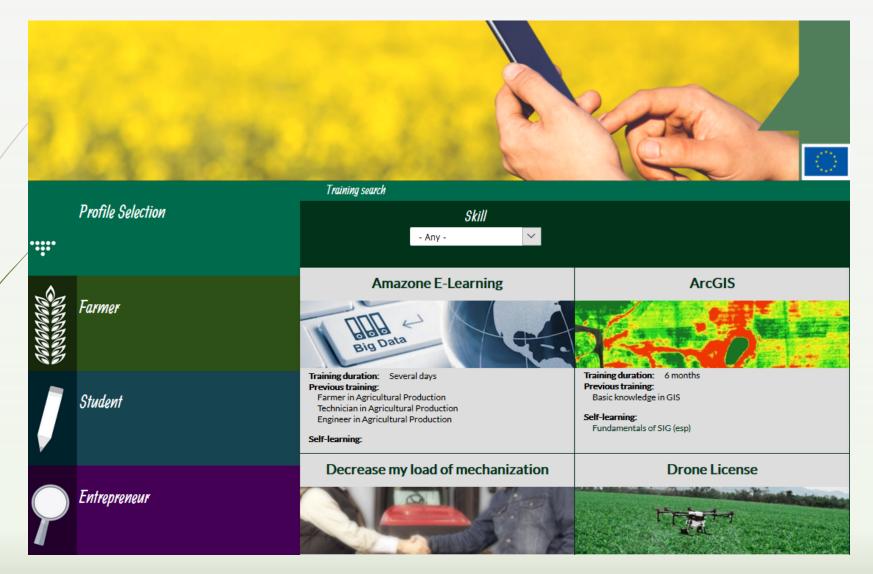


WiseFarmer: Connecting farm generations in the digital age

https://www.wisefarmer.eu/home-wisefarmer

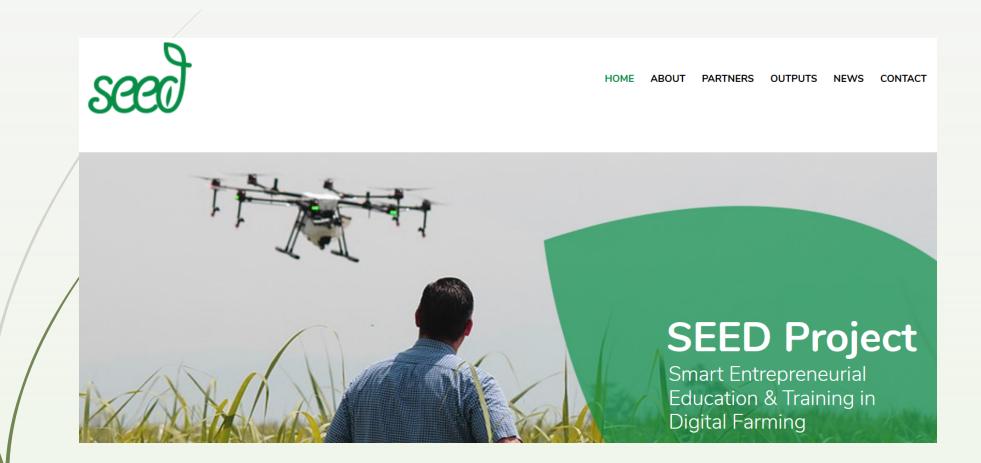


#### Sfate – Smart Farm Training for Employment



https://www.edu.xunta.gal/centros/sfateproject/

#### **Bi** Seed – Smart Entrepreneurial Education & Training in Startup Digital Farming



https://www.digitalseed.eu/



Digital Transformation of Learningimpact on organic agriculture

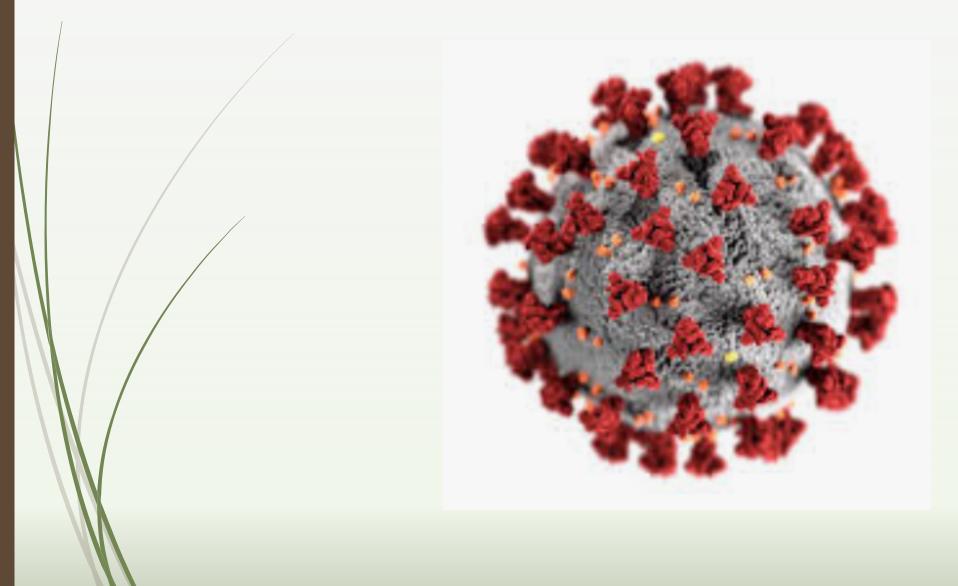
## Do you know more projects in the field?



Digital Transformation of Learningimpact on organic agriculture

# 3. Digital leaning after COVID-19







#### COVID-19 and Agricultural training

- Disruption of eduactional activity (universities, schools...)
- Changes in the workplace
- Physical meetings not allowed (project meetings, networking meetings...)
- Cancellation of professional and demonstration fairs
- Impact on-farm visits (control bodies, advisors, services providers...)
- Changes in distribution channels (farmers market, supply chain changes...)
- Limitation on availability of public and essential services

However farmers need to serve a maintained or even increased demand for agricultural and food products



#### COVID-19 and Agricultural training

#### Crisis vs Opportunity

- Blooming of online training offer
- Tele-working implementation
- Spearing transport costs of meetings
- Increase participation on events of new users
- Time-saving controls and service provission
- Smart value-chain management & new distribution channels
- Boost to on-line administration



#### Digital Learning After COVID-19

#### **Education and Training**

Home Education in the EU

he EU Policies

Resources and tools

Events

### **Coronavirus: online learning resources**

News

Discover a selection of online resources and tools for learners, teachers and educators during the outbreak of COVID-19.

https://ec.europa.eu/education/resources-and-tools/coronavirus-online-learning-resources\_en



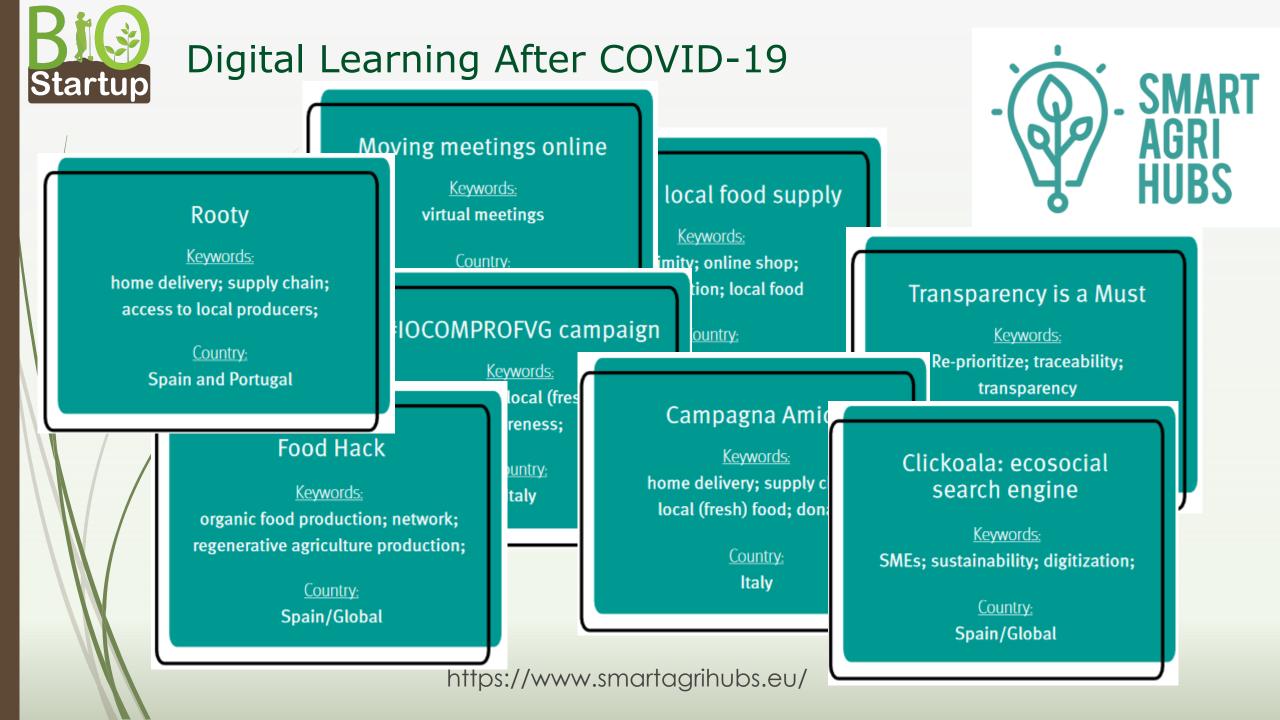
#### Digital Learning After COVID-19



# ANALYSIS OF COVID-19: SOLUTIONS ON THE FORUM



https://www.smartagrihubs.eu/





#### Take home messages

- Digital technologies have a strong potential for agricultural training
- Digital Transformation of Training is already deployed in Europe
- The new focus on the AKIS will provide opportunities for the use of these technologies as the main driver of knowledge sharing
- The organic sector is well positioned for the Transition
- Learning, exchange and sharing from best experiences is key to avoid "reinventing the wheel"
- COVID-19 pandemic has moved the digital transition to a digital revolution.



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#### Thanks for your attention!







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