Assessing the impact of
digital technology
solutions in agriculture
in **real-life** conditions

QuantiFarm

30
Test Cases

100
Digital Solutions

4000
Farmers

quantifarm.eu

QuantiFarm

QuantiFarm is a **3.5 year-long project** bringing together **32 partners** and real life test cases to **overcome the challenges that limit DATSs adoption.**

QuantiFarm will support:
- Informed decisions based on the demonstration of the costs and benefits
- Facilitated uptake of digital technologies through decision-making support
- Strengthen the capacities of farmers' advisors in the field of digital technologies

DIGITAL AGRICULTURE TECHNOLOGY SOLUTIONS (DATSs)

Range of DATSs include
- Farm management information systems
- Controlled traffic farming technologies
- Reacting and variable rate technologies
- Recording and mapping technologies
- Robotic systems and smart machines

IRELAND

Test Cases will assess DATSs against their benefits, costs and impacts on sustainability
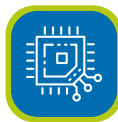
Technological means used

- Artificial Intelligence (AI)
- Internet of Things (IoT)
- Communication Networks
- Sensors
- Drones
- Robotics

PORTUGAL

SPAIN

30 TEST CASES
20 COUNTRIES

FINLAND

LATVIA

LITHUANIA

UNITED KINGDOM

NETHERLANDS

BELGIUM

GERMANY

POLAND

FRANCE

SLOVENIA

CROATIA

ROMANIA

ITALY

SERBIA

GREECE

10 BIOGEOGRAPHICAL REGIONS

- Mediterranean
- Anatolian
- Continental
- Pannonian
- Macaronesian
- Alpine
- Boreal
- Black Sea
- Steppic
- Atlantic

7 AGRIFOOD SECTORS

- Aquaculture
- Vegetables
- Apiculture
- Fruit
- Arable
- Meat
- Dairy

Challenges for increasing DATSs uptake:

Lack of knowledge about DATSs

DATSs impact on sustainability when used under real life conditions

Insufficient clear and "hard" data on the costs and benefits of DATSs

Impediments such as farmers' cultural and behavioural attitudes

For each DATS adopting farm studied, an equivalent non-DATS using farm will also be studied.

Main Goals of using the DATSs

Reduce inputs and costs

Increase yields

Increase environmental sustainability

Reduce risks

TURKEY

CYPRUS

THE PROJECT'S 5 KEY RESULTS

Behavioral Analysis: to understand the factors that affect farmers choices when selecting and implementing DATSs

Assessment framework: to evaluate the value of DATSs and their economic, environmental, societal sustainability

QuantiFarm Digital Innovation Academy: to train advisors so they can offer innovative advisory services on DATSs to farmers and help them make the best selection and use of DATSs

Policy Monitoring Tool: to assess the sustainability and competitiveness of DATSs and the effectiveness of policy interventions

QuantiFarm Toolkit: a customisable, evidence-based decision support tool for adopting, benchmarking, compliance checking and monitoring DATSs

Quanti Farm TOOLKIT

- Recommendations
- Cost & Benefit Calculators
- Benchmarking
- Compliance Check
- Advanced Decision Support
- Policy Monitoring

WHO WILL BENEFIT?

- Farmers
- Agricooperatives
- Research & Innovation Networks / Platforms
- Industry Associations & Groups, Institutional & Private Partners
- Extension & Advisory Services
- Authorities & Policy Makers
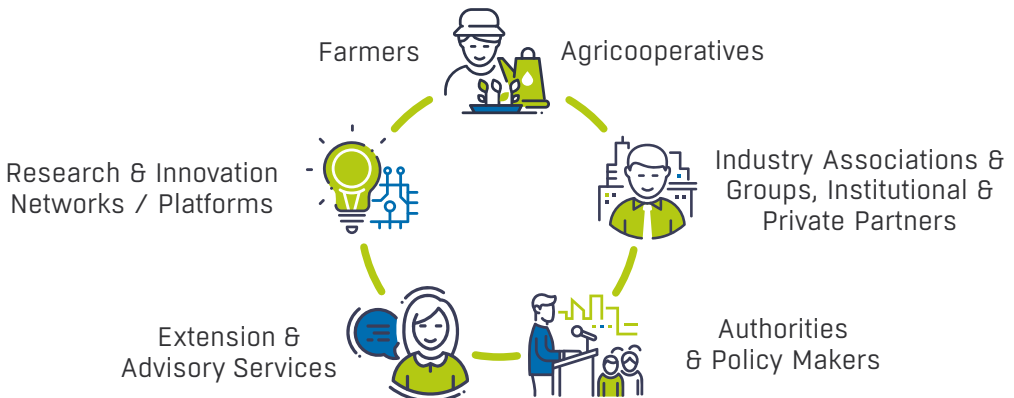
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