

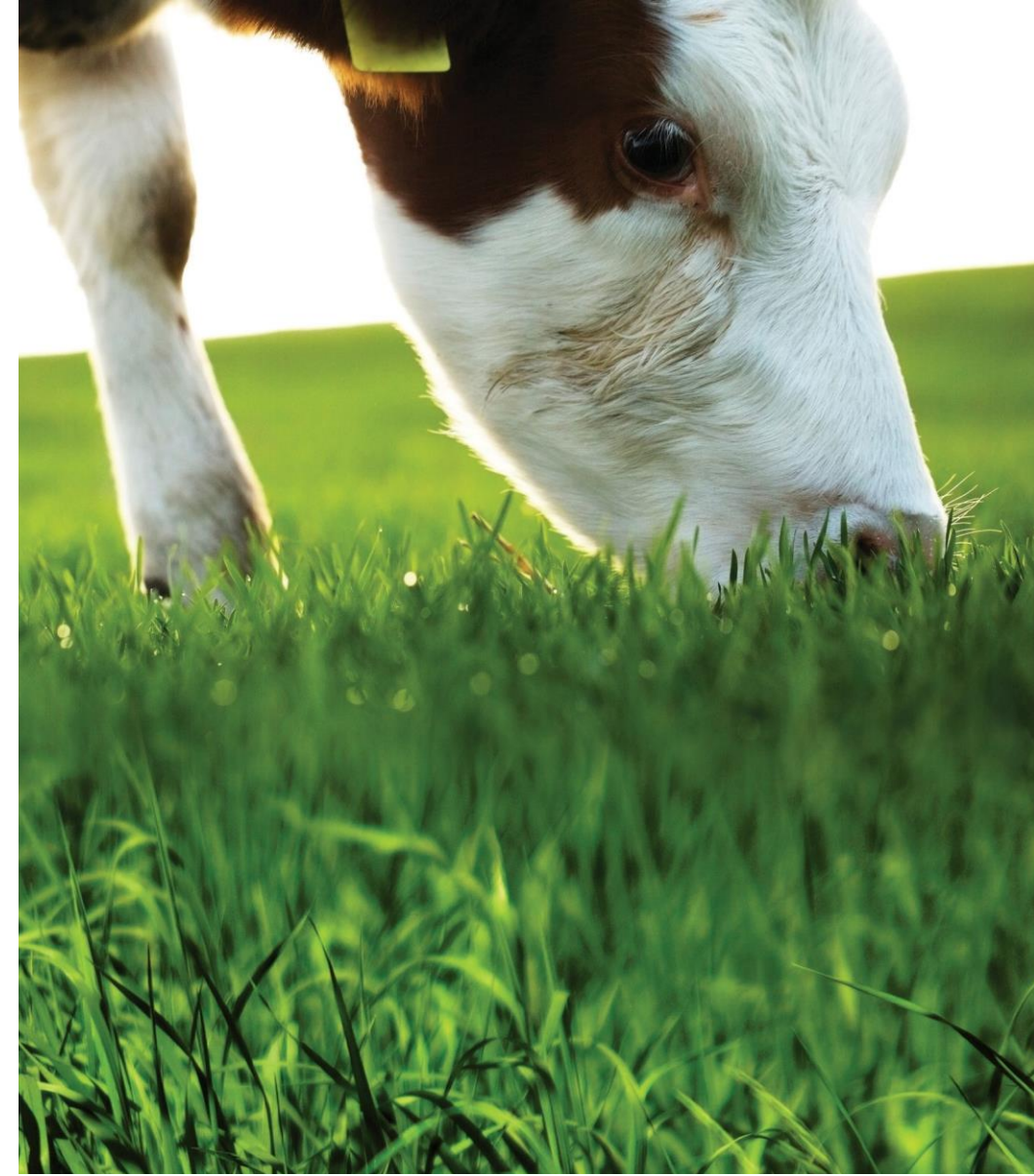


DEMETER

INNOSETA Networking Meeting

Kevin Doolin

Walton Institute

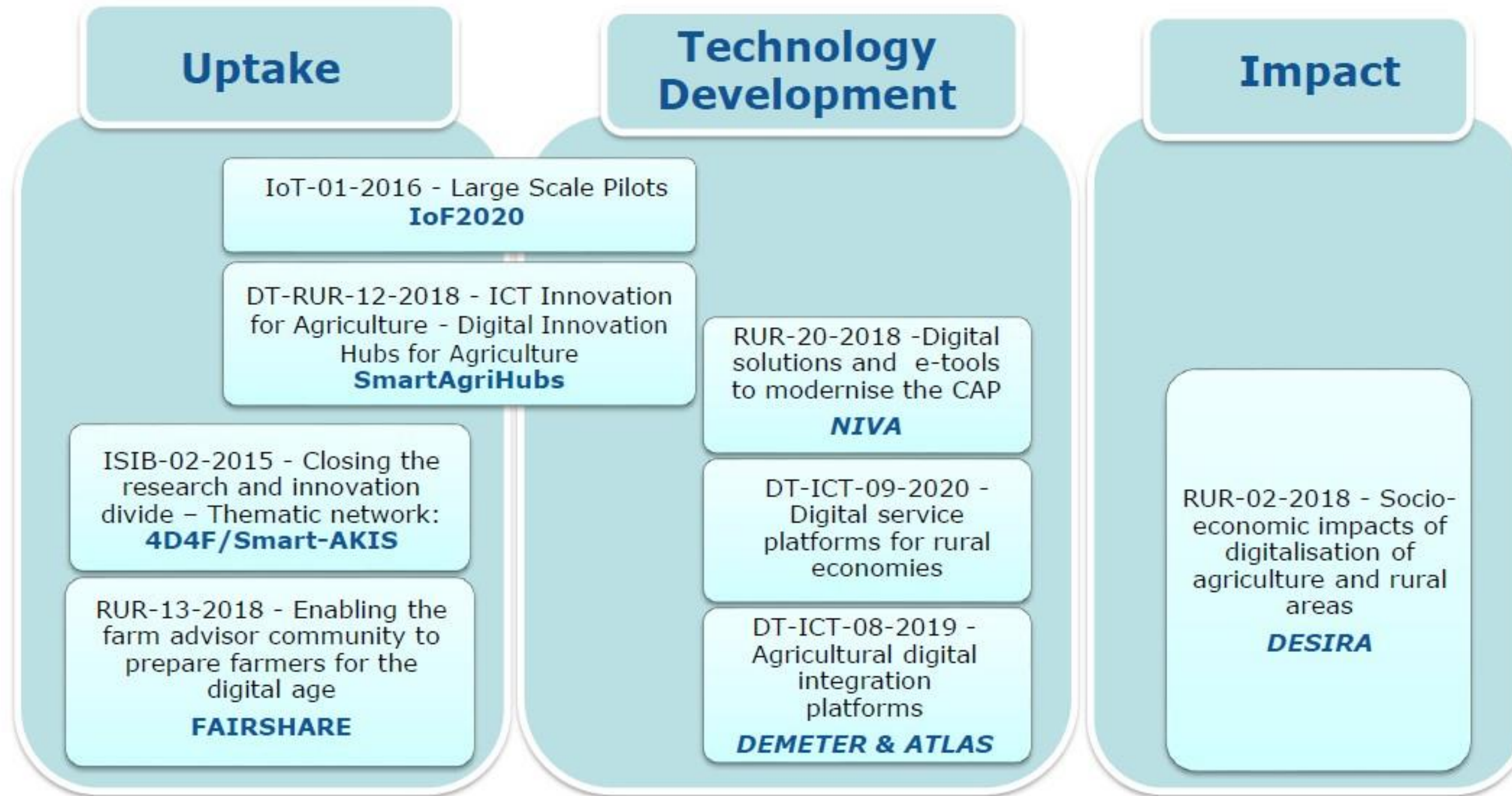




EU R&I Addressing Challenges

Research & Innovation

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



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





DEMETER - In a nutshell

15 member states



18 Countries

60
Partners

318k hectares of land

Working with
5.7k
Farmers

29k Sensors used across
80 sites



20 Pilots



5 Agri Sectors

Global Outreach:

69

farming associations

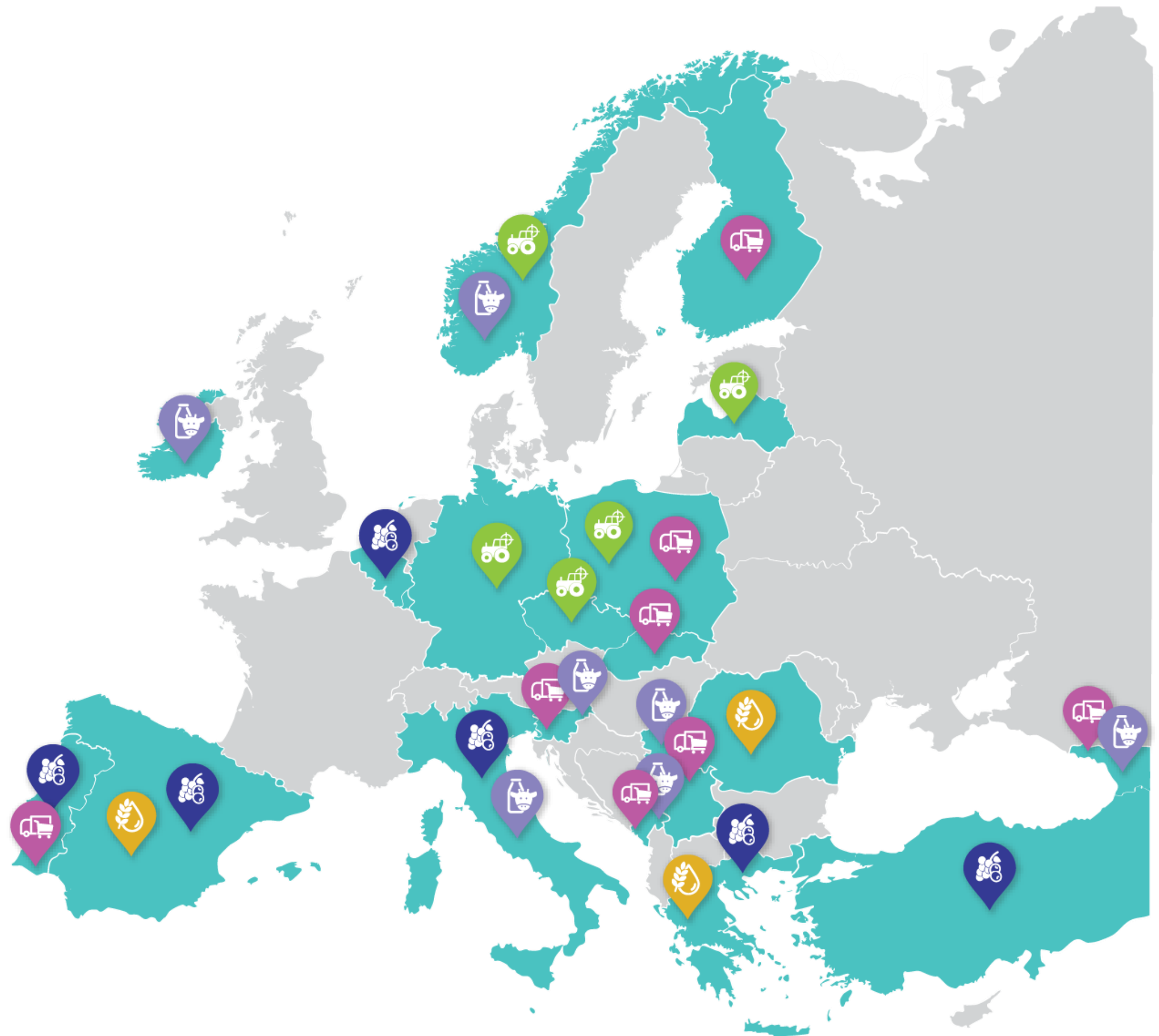
47 Countries

1.5 Billion People

Multi-Actor Approach



Using Practical skills & knowledge to target real life needs, problems & opportunities.





Pilots Overview



Sector: Arable Crops
Focus: Water & Energy Management

- Water savings in irrigated crops
- Smart energy management in irrigated & arable crops
- Optimal Quality Rice Irrigation
- IoT Corn Management & Decision Support Platform



Sector: Arable Crops
Focus: Agricultural Machinery, Precision Farming

- In-Service Condition Monitoring of Agricultural Machinery
- Automated documentation of arable crop farming processes
- (Farming)Data Brokerage Service and Decision Support System for Farm Management
- Benchmarking at Farm Level Decision Support System



Sector: Fruit & Vegetables
Focus: Health and high-quality crops

- Decision Support System to support olive growers
- Precision Farming for Mediterranean Woody Crops
- Pest Management Control on Fruit Fly
- Open platform for improved crop monitoring in potato farms



Sector: Livestock
Focus: Animal Health, High Quality

- Dairy Farmers Dashboard for the entire milk and meat production value chain
- Consumer awareness: Milk quality and animal welfare tracking
- Proactive milk quality control
- Optimal chicken farm management



Sector: Cross-sectorial
Focus: Full supply chain, interoperability, robotics

- Disease prediction and supply chain transparency for orchards/vineyards
- Farm of things in extensive cattle holdings
- Pollination optimisation in apiculture
- Transparent supply chain in poultry industry





Status and Next Steps

- Started Sept 2019
- Multi Actor Approach fully underway
- Initial requirements and architecture ready
- Piloting started (with Covid delays)
- 1st Open Call Started
- Joint whitepaper on Common Agricultural Data Spaces
- www.h2020-demeter.eu
- twitter.com/H2020DEMETER
- facebook.com/H2020Demeter
- linkedin.com/company/h2020-demeter
- [Youtube](https://youtube.com)





Challenges and Recommendations

- FAIR Principles
 - Benchmarking for Quality and Comparison
 - Data Semantics
 - Data Ownership
 - Requirements management with multi-stakeholders
-
- Engage all stakeholders
 - Demonstrate Value
 - Data Openness
 - Don't reinvent the wheel





Challenges and Recommendations

- Risk and Issue Management
 - Complex project structure
 - Potential for silos
 - Covid prevents f2f communication





Risk and Issue Tracking

The screenshot shows the GitLab interface for the 'Coordination' group. The left sidebar contains navigation options: Coordination, Subgroup overview, Details, Activity, Issues (74), Merge requests (1), Security, Kubernetes, Packages & Registries, Analytics, Members, and Settings. The main content area displays the 'Coordination' group details, including the group ID (11342841) and options to create a new subgroup or project. Below this, a list of subgroups and projects is shown, each with a search bar and a dropdown menu. The subgroups listed are: Cross WP, Risk Management, Workpackage 1, Workpackage 2, Workpackage 3, Workpackage 4, Workpackage 5, Workpackage 6, and Workpackage 7. Each subgroup is marked as 'Owner' and has associated icons for search, edit, and view. At the bottom, a 'Tracker User Guide' is listed with a description: 'You can access the DEMETER user guide for issue tracking here', a star icon, and the date '1 month ago'.



Risk and Issue Tracking

The screenshot displays the GitLab Issue Board interface for the 'DEMETER' project, specifically for the 'Coordination' group. The board is organized into five columns representing different stages of the workflow: Open, Ongoing, In Review, In Revision, and Closed. Each column contains a list of issue cards, each representing a specific task or deliverable. The cards include titles, labels (such as 'CrossWP', 'WP1-WP7', 'Deliverable', 'Admin'), due dates, and assignees. The 'Open' column has 61 items, 'Ongoing' has 12, 'In Review' has 1, and 'In Revision' has 0. The 'Closed' column contains several completed tasks. The interface also includes a search bar, filters, and options to show labels, edit the board, or create a new list.

Column	Item	Labels	Due Date	Assignee
Open (61)	Final WP7 Presentation	CrossWP, WP7	Friday	
	Final WP6 Presentation	CrossWP, WP6	Friday	
	Final WP5 Presentation	CrossWP, WP5	Friday	
	Final WP3 Presentation	CrossWP, WP3	Friday	
	Final WP2 Presentation	CrossWP, WP2	Friday	
Ongoing (12)	Deliver D24	Deliverable, WP2	May 31	
	Deliver D34	Deliverable, WP3	Jun 30	
	Final WP4 Presentation	CrossWP, WP4	Friday	
	Deliver D44	Deliverable, WP4	Jun 30	
In Review (1)	Deliver D43	Deliverable, WP4	May 31	
	Deliver D54	Deliverable, WP5	Mar 31	
In Revision (0)	Deliverable D5.5	Deliverable, WP5	Apr 30	
Closed	Provide input for D2.4 (ROT)	Deliverable, WP2	Tomorrow	
	Provide module/enabler Verification Reports based on the template document		Friday	
	Revise figure in D2.4 (Atos)	Deliverable, WP2	Tomorrow	
	Provide input for Periodic Report for M01-M18 on behalf of Task 2.1	Admin, WP1, WP2	Apr 8	
	Deliver D62	Deliverable, In Review, WP6	Nov 30, 2020	



Risk and Issue Tracking

GitLab Projects Groups More Search or jump to... 11 12 ?

DEMETER > Coordination > Milestones

Open 25 Closed 0 All 25 Filter by milestone name Due soon New milestone

Milestone Name	Period	Status	Issues	Merge requests	Completion	Action
M18 and Before - Group Milestone	Sep 1, 2019–Feb 28, 2021	Expired	20	0	100% complete	Close Milestone
M19 - Group Milestone	Mar 1, 2021–Mar 31, 2021	Expired	16	0	93% complete	Close Milestone
M20 - Group Milestone	Apr 1, 2021–Apr 30, 2021	Expired	3	0	33% complete	Close Milestone
M21 - Group Milestone	May 1, 2021–May 31, 2021	Upcoming	13	0	0% complete	Close Milestone
M22 - Group Milestone	Jun 1, 2021–Jun 30, 2021	Upcoming	2	0	0% complete	Close Milestone
M23 - Group Milestone		Upcoming	1	0	0% complete	Close Milestone

Left sidebar: Coordination, Subgroup overview, Issues (74), Merge requests (1), Security, Kubernetes, Packages & Registries, Analytics, Members, Settings.



Challenges and Recommendations

- Use your Advisory Board





Advisory Board

First Meeting – 16/12/2020

Patrick Barrett (DAFM, Ireland)

Mary Sharp (Ethics, TCD, Ireland)

Emilio Gil (Uni Poli Catalunya, Spain)

Pavel Gnip (Agco, Czech Republic)

Spyridon Vizantinopolous (Former DG National Agricultural
Research Foundation, Greece)

Key outcomes

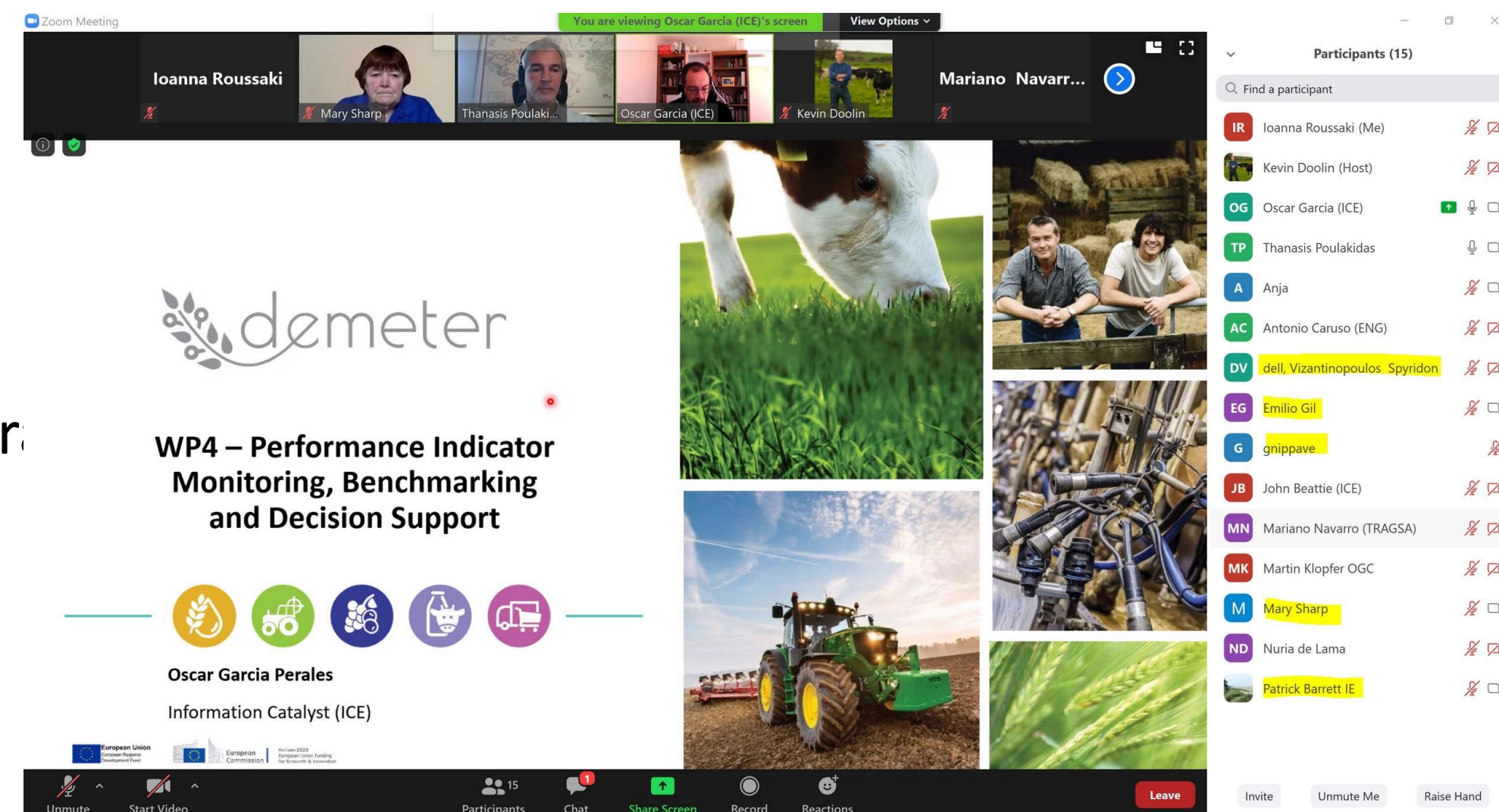
Introductions to farm advisory services and government
agencies

Linkages with other related projects

Strategic approach to Agri Data Spaces

Need to create real networking actions

Need to be cognisant of language and tech savviness of
farmers



Thank you for your time.

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