

1. Stocktaking

- report from 21st October meeting
- Inputs received

2. Next-generation platforms

- elaborate, develop further ideas/concepts

3. Supporting initiatives

- What kind of large scale federating initiatives are needed?
- What platforms to be tested and demonstrated in large-scale pilots?

4. Action plan

- Needed actions
- Contributions from PPPs
- Contribution from the MSs/ regions
- Links with national initiatives

WG2- Smart Farming – Reporting from 21st of October meeting

What is the current landscape of activities in Europe (national initiatives, EU funded activities, other)?

- Already farmers using a variety of fragmented platforms (also different stakeholders agencies, co-operatives)
- Large Scale Pilot in IoT for Agrifood (IoF2020)
- Commercial systems exist for autonomous tractors and machinery, e.g., John Deere, 365FarmNet, Automated milking, cattle monitoring, etc.
- Sustainability, efficiency and optimization of farmers operations are key drivers– efficient use of fertilisers, etc.

Main issues/requirements

- Interoperability for connecting machinery and sensors
- Approaches for data management and handling
- Platforms open to all farmers, Open API
- Address the digital divide (lack of digital skills)
- Provide connectivity for farmers.
- Ensure that farmers get value from data
- Ensure that farmers (interests) are at the centre of the system

Inputs from Copa-Cogeca

- Connected farmers are using smart farming techniques
- Agri-cooperatives are implemented disruptive business models
- Digital techno could help farmers but it is necessary to establish robust infrastructure
- Issues: connectivity, interoperability and ICT skills
- Farmers to remain at the heart of collecting and processing data
- Strategy at EU level not 28 different plans

Inputs from Cema

- Real IoT solution are of premature nature. There are no off-the-shelf plug& play solutions
- Missing element: implementation at farm level
- IoT to allow farmers and gov to address CAP targets on greening measures.
- Large scale initiative act as ecosystem allowing for networking between players
- Bridging the gap between technologies and farmers (skills)

Inputs from AIOTI

- Fragmentation in platforms
- List of regional initiatives
- List of international initiatives
- List of B2B and B2C platforms from cooperatives + commercial services
- List of possible PPPs contribution
- Future needs: connectivity, open data, sharing data, interoperability, STD, trust security
- Interoperable and secure agri-food platforms – qualityopen data in easy-to-access systems
- Clear need to get active participation of MS

Smart agriculture major platform projects

	Projects	Objective	Type of stakeholders	Public funding
Internet of Things	IOF2020 - cloud serv. AGRI cofinanc.	Build a platform of cloud based App-like services for agriculture industry	Telco providers, electronics, user industry	30 M€
Big Data	DATABIO* - satellite data in agriculture	Optimise production with data analytics in agriculture, forestry and fishery/aquaculture	Communication and IT services, user from bio-economy (farming, fishing, forestry)	tbd
Future Internet	FI-Space - cloud services	Predecessor of IOF2020		

1. Stocktaking (Done)
2. Next-generation platforms
 - Approach bottom-up? Building on existing platforms? Creating new ones?
 - Eco-system building? Stakeholders involved in the development?
3. Supporting initiatives
 - Which thematic area (environment, resource mngt, benchmarking/strategic farm mngt, ...)?
 - Large scale pilot deploying digital technologies?
 - Which kind of federated initiatives? Pulling resources?
4. Action plan
 - Needed actions
 - Contributions from PPPs
 - Contribution from the MSs, Regions
 - Links with national initiatives

WG2- Smart Farming - Reporting from 21st of October meeting

Where do we want to go? Next generation platforms

- Farmers should be at the centre of system
- Need interoperability and standardisation (without vendor lock-in), security and trust
- Platforms to support Sharing of data amongst farmers, data ownership, creation of value and services from data

Conclusion

- Digital platforms to help farmers to achieve greater efficiencies but also reducing environmental impact (minimising use of water, use of fertiliser..)
- Need interoperability and standardisation (without vendor lock-in), security and trust
- Need Large scale pilot for success story to persuade farmers (usually family businesses) to adopt/trust platforms
- Need of pilots to ensure that technologies are adapted and affordable for small and medium farms