



European current and future IoT activities in Smart Agriculture

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Digital Technologies driving the sector

- **IoT Large Scale Pilot (IoF2020)**
Real demonstrations in the agri sector – 19 Use Cases
Promotes interoperability and integration of information flow
- **BIODATA**
funded via the Big Data Value Association Addresses data for agri. applications
- **euROBOTICS**
Agri Food Lighthouse Project
- **EIP-AGRI**
funded by MSs through Rural Development Programmes
Focus Group on Precision Farming
- **CEMA, AEF Agricultural Industry electronics Foundation (ISOBUS)**
- **Copa-Cogeca contribution to the code of conduct on sharing data**
- **AIOTI WG6 Smart farming and food security**
- **Global Open data for Agriculture and Nutrition (GODAN)**
400 partners from national governments, NGOs and private sector
- **Netfarming, a subsidiary of AGRAVIS**
German co-operative has developed an application for its members
- **Commercial platforms**
 - **365FarmNet** – linking together applications and services of different providers
 - **MyJohnDeere** – access to agri machinery data
 - **PLM Connect** Farm Management Information and Decision System



Farmers at the center of collecting and processing of data

- ❑ ***Lack of interoperability***
- ❑ ***Existing data flows are not exploited***
- ❑ ***Links with co-operatives at the regional level***
- ❑ ***Different Requirements (size & needs of the farms)***

- ✓ ***Plug-and-play freedom***
Farmers easily shift to use other platforms
- ✓ ***Transparency***
Clarification of rights to access and process data
- ✓ ***Hands-on experience***
Engaging farmers and developers
- ✓ ***Platforms for optimisation***
Fertiliser / pesticide / water usage / quality



Digitising European Industry

digitisation in Agriculture and farming

Mainstreaming digital innovations DIHs

DIH in smart agriculture to start end
of 2018: 20M€

Another DIH in robotics for
agriculture and agro-food is running

Integration, platforms, pilots
Robotics: 25 M€ on precision
farming

IoT LSP: 30 M€

Big data: ~20 M€

WP2018-20: 30 M€ +..

Adapting regulations:

Sept 2017: FFD regulation,
portability

Cybersecurity package

Spring 2018: Revised PSI, ..

Preparation of the workforce

Training, skills, work environment



Topic: DT-ICT-08-2019

Timeline:

- Call opening: 26th July 2018
- Call deadline: 14th November 2018, 17.00
- Budget: 30 Mio €

Specific Challenges:

- Sustainability (farms revenues) - pressures on natural resources.
- Information and knowledge not fully exploited – need to speed up knowledge creation.
- Limited interoperability and lack of openness of systems.
- Lack of information on effectiveness of digital technologies.



Scope: Pilots should address the 3 aspects:

1. Building platforms integrating different technologies.
2. Sharing data and generating knowledge.
3. Developing decision support systems, including benchmarking system on the productivity and sustainability performance of farms.

Thank you - useful links



- Digitising European Industry Strategy (DEI):
<https://ec.europa.eu/digital-single-market/en/digitising-european-industry> → FUTURIUM
- The Alliance of Internet of Things Innovation
<http://www.AIOTI.eu>
- Internet of Things in DAE:
<http://ec.europa.eu/digital-agenda/en/internet-things>
- Horizon 2020 – The EU Framework Programme for research and Innovation:
http://ec.europa.eu/research/horizon2020/index_en.cfm

