Data sharing in agriculture.
Towards a European agriculture data space.
Online Workshop

10 June 2020

Co-organised and supported by:

Recent years have seen an increasing interest in the use of digital technologies as tools to contribute to the wide sustainability of the agri-food sector. Precision/smart farming, Agriculture 4.0, and the like are concepts no longer attached to academic research, but they have been making their way through the market and the real life of farmers during the past years. Smart farming techniques are being successfully applied in areas like optimization in the use of resources (water, fertilizers, pesticides, etc.), monitoring of animal health and wellbeing, and decision making. Together with the increasing robotization of farming labour, they are having a positive impact in productivity and environmental footprint, in line with the Sustainable Development Goals (SDG) and climate change strategies.

In addition, digital technologies play a strong role in enabling food traceability throughout the whole food chain addressing food safety, fraud prevention, compliance with certifications and regulations, etc.

At the heart of this digitally-enabled revolution in the agri-food sector it is the data, which comes from multiple sources: remote sensing platforms, weather forecasting services, raw material market prices and especially from the Internet of Things (IoT) gathering data directly from the field and the farm through sensing devices and connected machines (tractors, their implements, and smaller agri-robots). This new paradigm paves the way also to new data-driven business models for agriculture and kickstarts the interest in data sharing mechanisms that can fully exploit the value of data for the benefit of the agri-food sector.

The first part of this workshop will address the current framework for data sharing in the European agri-food sector by focusing on the *"EU code of conduct on agricultural data sharing by contractual agreement",* which reflects the agreement of the main stakeholders on the principles that should regulate agricultural data sharing, building trust for the farming sector from the very beginning. The workshop will review current initiatives built upon the code of conduct.

The second part of this workshop will be devoted to make agriculture data sharing a reality. From high-level generic architectures to practical implementations in real agri-food use cases, the workshop will discuss on the proper technologies, architectures and standards that are needed for achieving a true European data space for agriculture.

Attendance is free and registration is mandatory. Eventbrite registration link.

Interactivity between the audience and the workshop participants will be enabled through GoToWebinar.

Workshop program

Morning session – the framework for agriculture data sharing

Welcome and Introduction	
10:00-10:20	Luis Pérez-Freire. Gradiant, Executive Director. AIOTI, chair of WG06 "smart farming and food security" Joel Bacquet. European Commission. DG CONNECT Doris Marquardt. European Commission, DG AGRI
Presentations	
10:20-10:30	**Code of conduct for agricultural data sharing by contractual agreement** Daniel Azevedo. COPA-COGECA, agricultural technology director.
10:30-10:40	**Societal relevance of data sharing: reflections beyond the Code of Conduct** Simone van der Burg. Wageningen University & Research. IoF2020 work package leader
10:40-10:50	**Strategy for full deployment of agricultural machinery data sharing** Vik Vandecaveye. European Agricultural Machinery Association, chair project team "Digital Farming". CNH Industrial, Mgr Advanced Data Analysis and Application Development.
10:50-11:20	**National approaches to agriculture data sharing** Steffen Beerbaum. German Ministry of Food and Agriculture. Théo-Paul Haezebrouck. Agdatahub, Products and Services Manager. Natalia Moreno-Sánchez. Spanish Ministry of Agriculture, Fisheries and Food, Head of Services at Sub-Directorate General of Innovation and Digitalisation
Roundtable discussion	
11:20-12:05	Daniel Azevedo Simone van der Burg Vik Vandecaveye Steffen Beerbaum Théo-Paul Haezebrouck Natalia Moreno-Sánchez **Moderator:** Thomas Engel. John Deere, Manager Technology Innovation Strategy
Closing of the morning session	
12:05-12:15	Summary/wrap-up and closing

Afternoon session – architectures, standards, and implementations

Welcome and Introduction	
15:00-15:20	Luis Pérez-Freire. Gradiant, executive director. AIOTI, chair of WG06 "smart farming and food security" Joel Bacquet. European Commission. DG CONNECT Doris Marquardt. European Commission, DG AGRI
Presentations	
15:20-15:30	**High-level distributed architectures for agriculture data sharing** Tom de Block. Nearcom. AIOTI, chair of "distributed ledger technologies"
15:30-15:50	**Practical implementation of data sharing in agriculture and lessons learned** The case of Gaiasense. Nikos Kalatzis, Neuropublic, technical project manager. The case of DJustConnect. Jurgen Vangeyte, ILVO, scientific director.
15:50-16:10	**Approaches for data sharing in current agriculture Large Scale Pilots** Stefan Rilling. Fraunhofer IAIS. ATLAS project coordinator Kevin Doolin. TSSG. DEMETER project coordinator
Roundtable discussion	
16:10-16:50	Tom de Block Nikos Kalatzis Jurgen Vangeyte Stefan Rilling Kevin Doolin **Moderator:** Grigoris Chatzikostas. Biosense Institute. Senior Advisor for EU Initiatives, Deputy Coordinator of SmartAgriHubs project.
Closing of the afternoon session	
16:50-17:00	Summary/wrap-up and closing

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Alliance for Internet of Things Innovation (AIOTI) is the multi-stakeholder platform for stimulating IoT Innovation in Europe, bringing together small and large companies, start-ups and scale-ups, academia, policy makers and end-users and representatives of society in an end-to-end approach. We work with partners in a global context. We strive to leverage, share and promote best practices in the IoT ecosystems, be a one-stop point of information on all relevant aspects of IoT Innovation to its members while proactively addressing key issues and roadblocks for economic growth, acceptance and adoption of IoT Innovation in society.

CREATE-IoT - CROSS FERTILISATION THROUGH ALIGNMENT, SYNCHRONISATION AND EXCHANGES FOR IoT - CREATE-IoT's stimulate collaboration between IoT initiatives, foster the take up of IoT in Europe and support the development and growth of IoT ecosystems based on open technologies and platforms. The work focuses on synchronisation and alignment on strategic and operational terms through frequent, multi-directional exchanges between the various activities under the IoT Focus Areas and the road-mapping with international initiatives.