



Common European Agricultural Data Space CEMA Position

8 September 2020
EC Expert Workshop

General comments



- ▶ Legacy and ISOBUS
- ▶ GDPR: one-to-one consent only
- ▶ Data may impact safety and security
- ▶ Standards and compliance
 - ▶ Needs to be easy to implement
 - ▶ Will evolve rapidly
 - ▶ NLF and self-certification
- ▶ Intention for global solutions

Q1: Is the federation of FMS platforms and other data platforms feasible?











Definitely. Right moment to start discussion:

- ▶ Machinery is connected
- ▶ APIs for 1-to-1 data exchange
- ▶ SDO participation increased
- ▶ ATLAS project
- ▶ Mindset ready with suppliers
- ▶ Low farmer adoption opportunity for next gen connectivity
- ▶ Over-arching architecture missing

Q2: What is needed to implement a European data space (technical POV)?



- ▶ Collaboration
- ▶ Eco-system architecture
- ▶ Common building blocks

	e-ID	Needs to support single sign on (SSO) and data governance, cross industries
	Digital ID for Vehicle	Each machine should be provisioned with a Digital ID (VIN) that will identify all the data sources originating from the machine that cannot be repudiated
	Object and Data Identification	Need to allow shared identification of data from other sources, including processed data.
	Distributed Ledger Technologies	Needs to support data governance for e.g. allowing to visualise data while avoiding storing data under control of the data owner
	System translators / interconnectors	Support the translation of proprietary data formats into a common data format that can be leveraged by the industry
	Semantics and ontologies	Define a Common Data Model to support the rapid development and deployment of AG Tech Products and Services
	Real Time HD Ag Data Streaming Protocol	While performing field operations (planting, tilling, spraying, etc), the machine can publish a real time HD agronomic data stream that can be consumed by a device or machine or to the cloud to visualize, draw insights and take actions from the data.
	Impact of 5G on AgTech	The next release of 5G 3GPP Rel 16 will provide a number of innovations especially for edge computing and low latency communications.

Q3: How can we reach an agreement on a set of interoperability mechanisms?



- ▶ Market harvesting
- ▶ Stimulation
 - ▶ Subsidise collaboration between value chain players
 - ▶ Support implementation of standardised modules: SSO
- ▶ Lead by example
- ▶ Enforcement

Q4: Are the suppliers of FMS ready and willing to federate their data platform?



- ▶ Code of Conduct widely accepted. Data originator controls the data flow
- ▶ FMSs are SMEs
 - ▶ Little bandwidth
 - ▶ Can't afford wrong choices
- ▶ Large equipment manufacturers
 - ▶ Ok
 - ▶ Digital maturity
- ▶ Small market players
 - ▶ Wary of large players

Q5: Which existing platforms supported by ecosystems are already sharing data?

- ▶ DataConnect
- ▶ DKE-Data agrirouter
- ▶ National data hubs (JoinData, DJustConnect, ...)

Q6: Which public data sets would be of particular relevance?

- ▶ topological information, cadastral information, satellite imaging, field objects (like pylons), weather forecasts from national institutes, master databases (crops, registration of agrochemicals), road information, etc.

Q7: Experiences with taking public data sets?

- ▶ Limited. Standardised API will help.



Thank you!

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