



Alliance for  
Internet of Things  
Innovation

# Edge IoT for agriculture

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# About AIOTI

The Alliance for Internet of Things Innovation (AIOTI) was initiated by the European Commission in 2015, with the aim to strengthen the dialogue and interaction among Internet of Things (IoT) players in Europe, and to contribute to the creation of a dynamic European IoT ecosystem to speed up the take up of IoT.

Other objectives include: fostering experimentation, replication, and deployment of IoT and supporting convergence and interoperability of IoT standards; gathering evidence on market obstacles for IoT deployment; and mapping and bridging global, EU, and Member States' IoT innovation activities.



# How we work

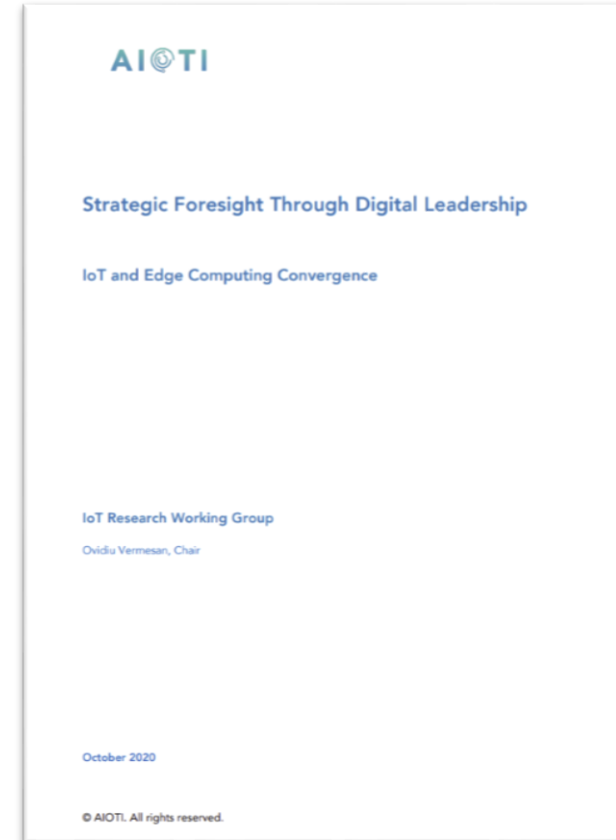
	WG 05	WG 06	WG 08	WG 09	WG 10	WG 11	WG 12	WG 13
WG 01 IoT Research								
WG 02 Innovation Ecosystems								
WG 03 IoT Standardisation								
WG 04 IoT Policy								
SME Interests	Smart Living Environment for Ageing Well							
Distributed Ledger Technologies		Smart Farming and Food Security	Smart Cities	Smart Mobility	Smart Water Management	Smart Manufacturing	Smart Energy	Smart Buildings and Architecture



# IoT and Edge Computing Convergence

Opportunity to generate growth and new industrial opportunities in Europe.

- Need for a single market for IoT edge computing. Founded on open standards, able to connect seamlessly and on a plug-and-play basis.
- Need for a trustworthy infrastructure that builds on flexible federation.



<https://aioti.eu/wp-content/uploads/2020/10/IoT-and-Edge-Computing-Published.pdf>

# Edge IoT in agriculture

- Reduce connectivity issues
- Local infrastructure approach
  - In line with “cooperative-like” organizational model
  - “Data sovereignty” → “keep core data at the core” → Trust

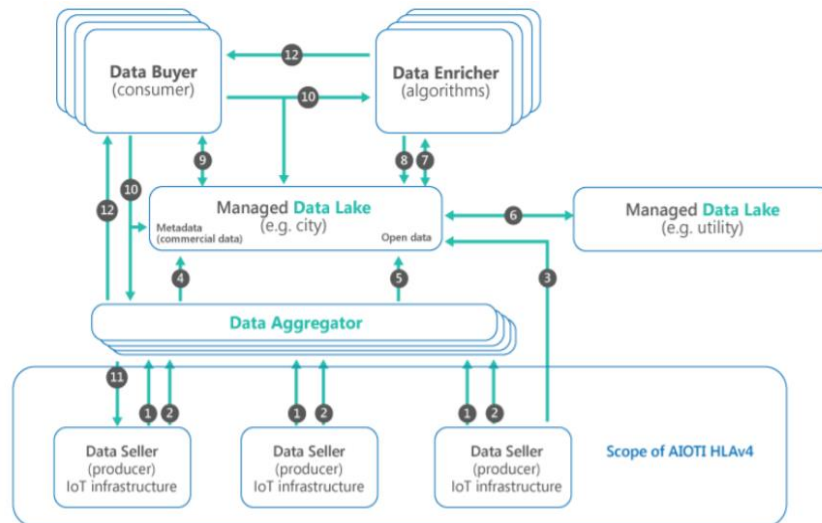
But...

- Keep complexity low
- Decentralization does not mean “siloing”

# Edge IoT and data marketplaces for the agri-food sector

Decentralized and federated models – compatible with data markets

Focus efforts in data discovery, data interoperability



<https://aioti.eu/wp-content/uploads/2020/05/AIOTI-WG06-IoT-data-markets-agrifood-v1.pdf>

# Recommendation

Build on the potential benefits of Edge IoT for future agriculture

- Keep complexity low
- Keep the doors open