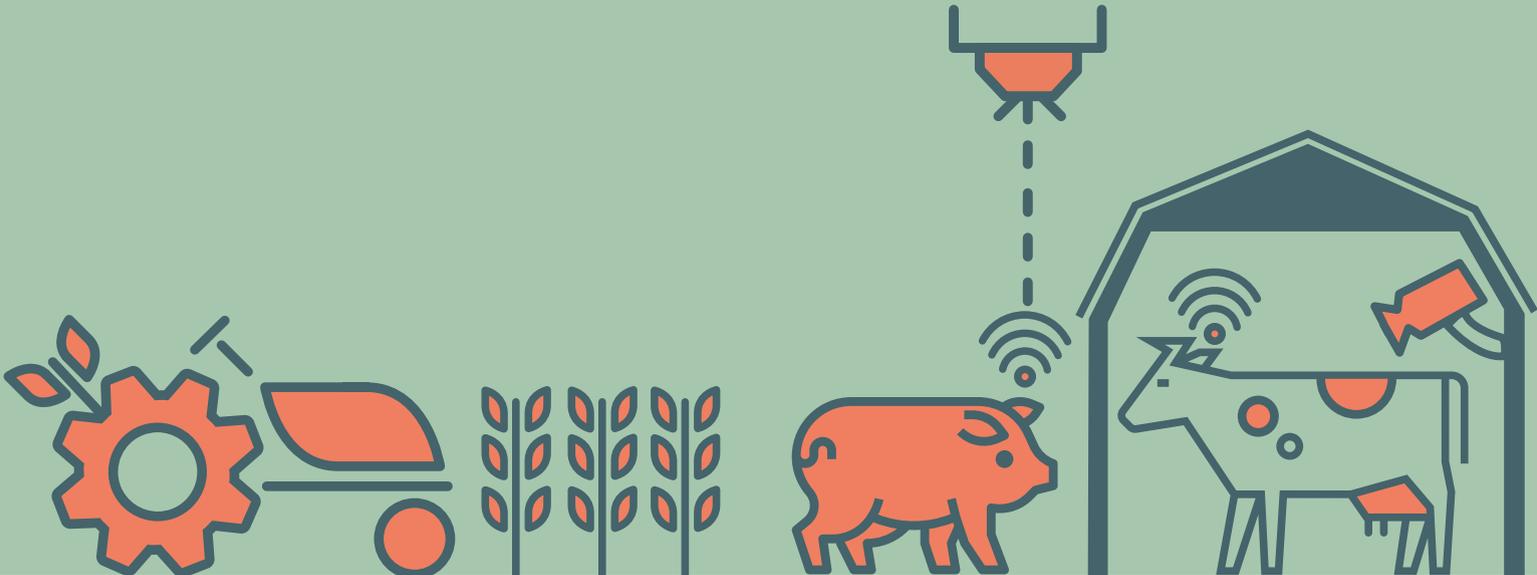




ATLAS

AGRICULTURAL INTEROPERABILITY
AND ANALYSIS SYSTEM



SUSTAINABLE BUSINESS ECOSYSTEMS

○ Establishing 5 Centres of Competence

- Provide a place to meet and inform
- Demonstration of new technology in a real-world environment

○ Third party funding through open calls for

- Innovative tech-driven SMEs and start-ups
- Small innovative agricultural enterprises and farms
- Development of new innovative services based on the ATLAS platform



PROJECT COORDINATION

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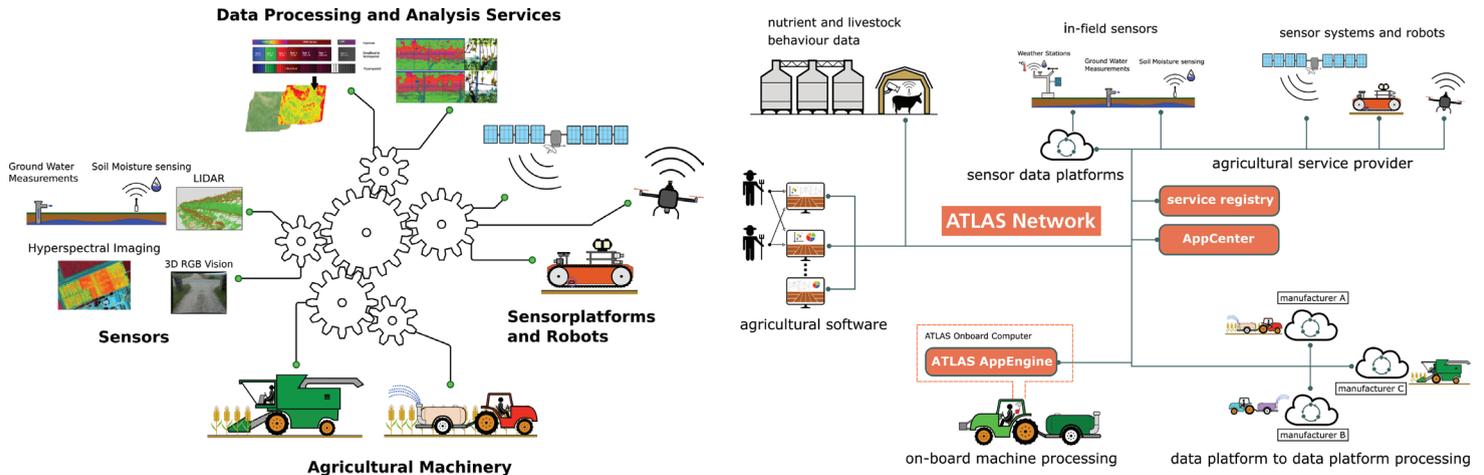
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SUMMARY

The goal of ATLAS is to achieve a new level of interoperability of agricultural machines, sensors and data services. ATLAS enables farmers to have full control over their data: farmers decide which data is shared with whom in which place. ATLAS will build an open, distributed and extensible data platform based on a microservice architecture which offers a high level of scalability from a single farm to a global community. The technology developed in ATLAS will be tested and evaluated within pilot studies on a multitude of real agricultural operations across Europe along four relevant use cases: precision agriculture tasks, sensor-driven irrigation management, data-based soil management and behavioural analysis of livestock. ATLAS will involve all actors along the food chain, simplifying and improving the processes from farm to fork. Through the support of innovative start-ups, SMEs and farmers, ATLAS will enable new business models for and with the farmers and establish sustainable business ecosystems based on innovative data-driven services.



Interconnection of sensors, machines and data services through the service platform (left), network of service registries for scalability form farm to global communities (right)

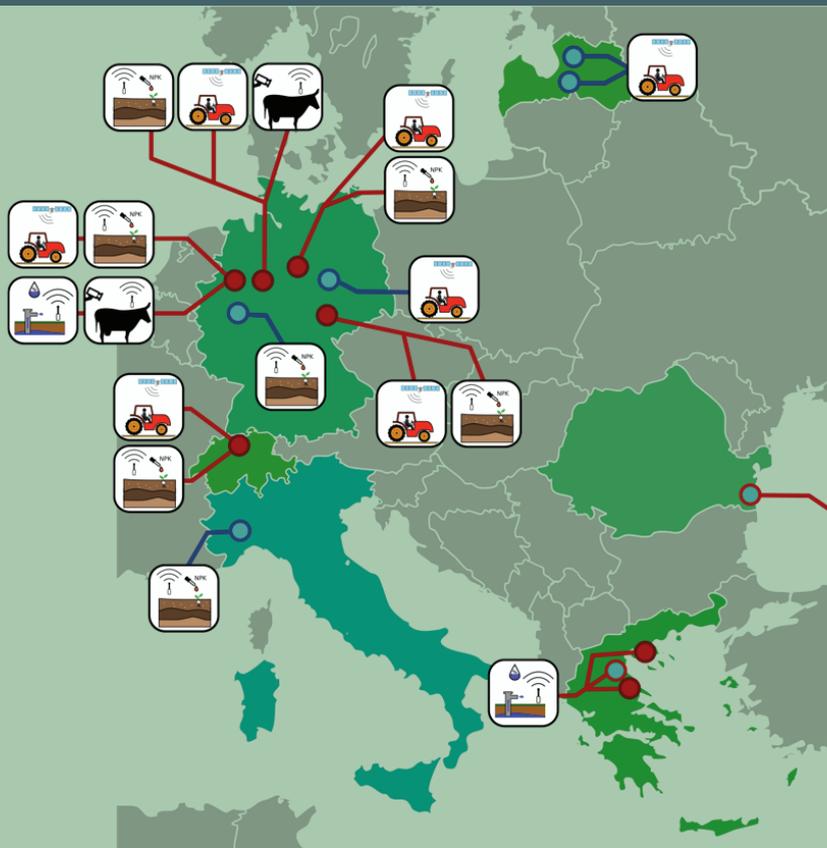
- **Open, distributed and extensible service platform**
- **Based on a Microservice architecture**
- **Interoperability of sensors, machines and data services**
- **From farm scale to global scale through interconnected service registries**

FACTS AND NUMBERS

- **ATLAS will run for 36 months**
- **12,890,976.25€ grant requested**
- **30 partners from 7 different European countries**
 - Universities and Research Institutions
 - Commercial Farms
 - Agricultural Cooperatives
 - Agricultural Machinery Industry
 - SMEs



LARGE SCALE PILOT STUDIES



- 13 commercial and research farms
- Demonstration and evaluation
- Real-world use cases

-  Targeted application
-  Sensor-driven irrigation
-  Data-based soil management
-  Behavioural analysis of livestock



