

# PROJECT OVERVIEW

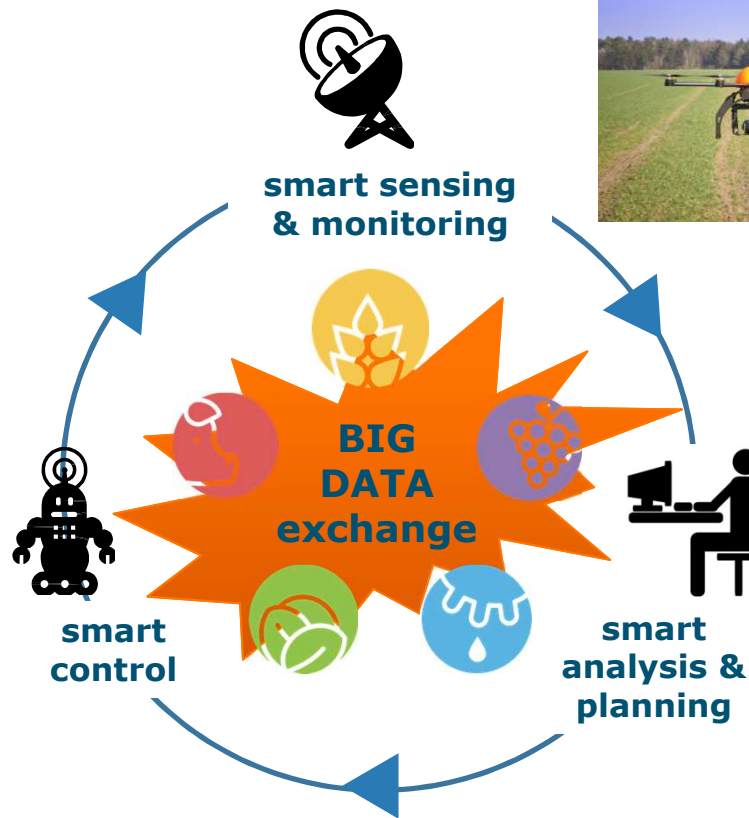
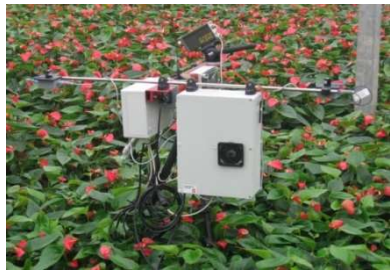
With special attention to Big data and Traceability

SJAAK WOLFERT, SCIENTIFIC PROJECT COORDINATOR

*Technical meeting of the thematic partnership on "Traceability and Big Data"  
Smart specialization platform S3P Agrifood,  
Sevilla, Spain, March 28 & 29, 2017*



# Advancements in Farming



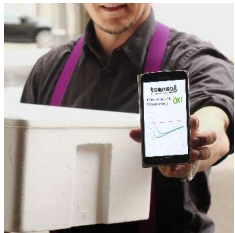
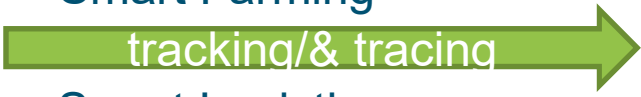
# Involving entire supply chain and beyond



Smart Farming

tracking/& tracing

Smart Logistics



Domotics



Health



Fitness/Well-being



# PROJECT OBJECTIVES

IoF2020 fosters a **large-scale uptake of IoT** in the European farming and food sector. In brief, it aims to:

1. Demonstrate the **business case of IoT** for a large number of application areas in farming and food sector;
2. **Integrate** and reuse available **IoT technologies** by exploiting open infrastructures and standards;
3. Ensure **user acceptability of IoT** solutions in farming and food sector by addressing user needs, including security, privacy and trust issues;
4. Ensure the **sustainability of IoT** solutions beyond the project by validating the related **business models** and setting up an **IoT ecosystem** for large scale uptake.



# IOF2020 IN BRIEF



**71 partners  
organisations  
16 countries**



**4 years  
Start = January 2017**

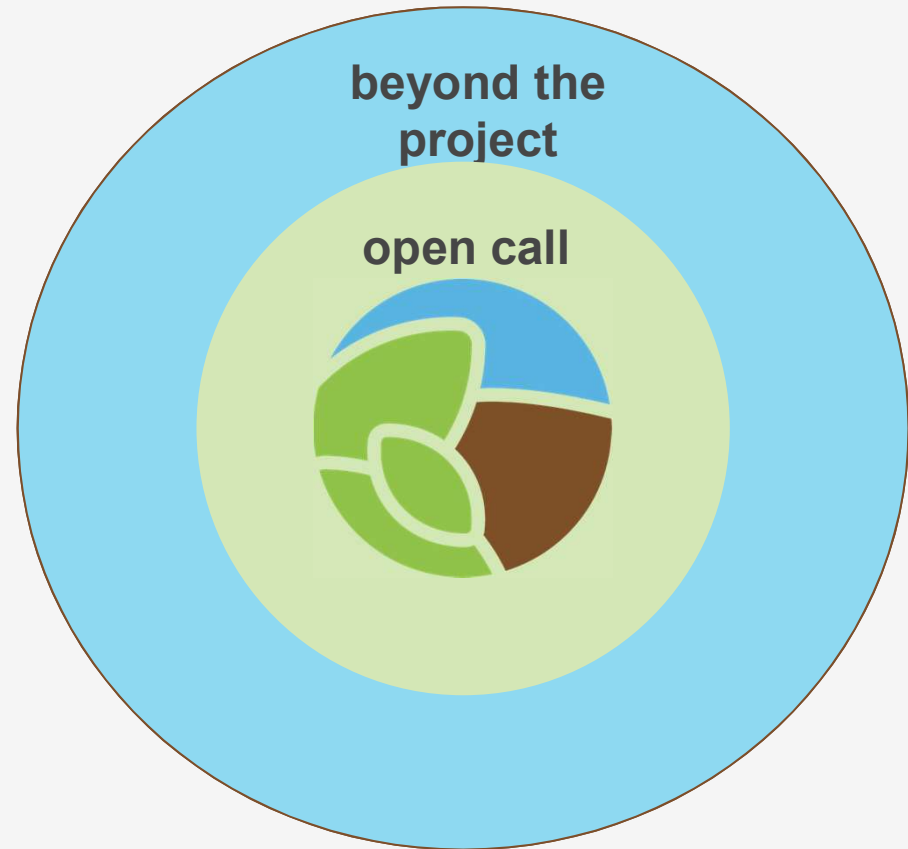


**€35 million budget  
(€30 million EU co-  
funding)**

# AMBITION & VISION

IoF2020 will pave the way for:

- Data-driven Farming;
- Autonomous Farm Operations;
- Virtual Food Chains;
- Personalized Nutrition for European citizens.



**LARGE-SCALE EXPANSION**

# TRIALS & USE CASES



Arable



Fruits



Dairy

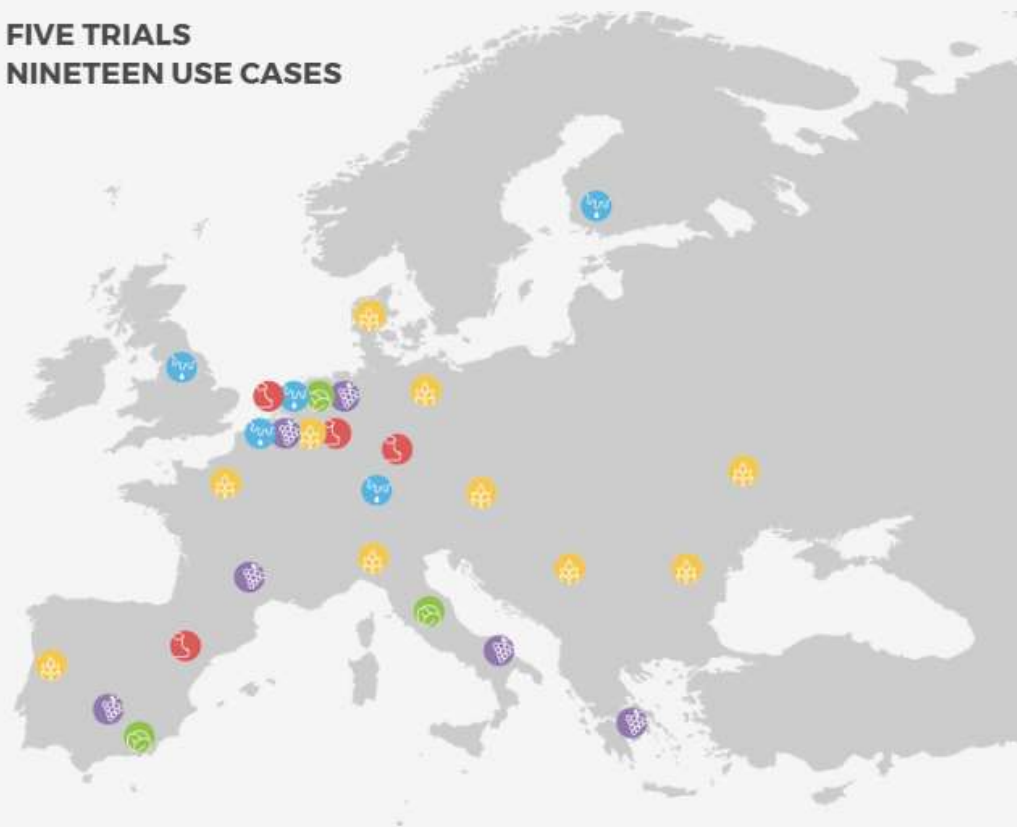


Vegetables



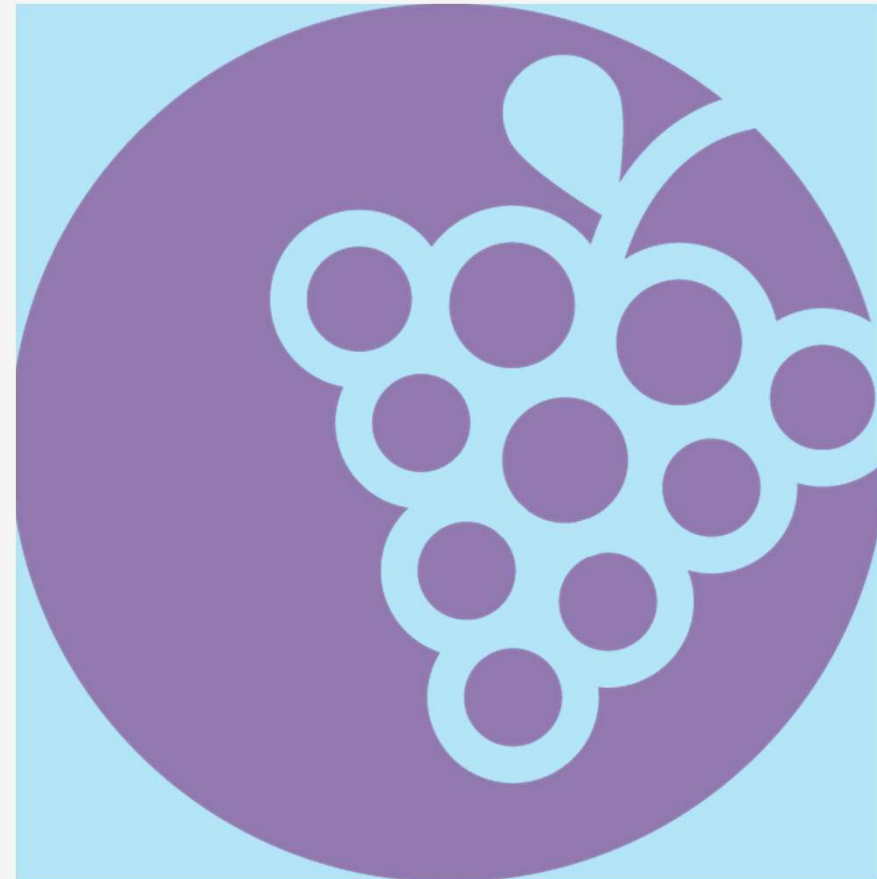
Meat

**FIVE TRIALS  
NINETEEN USE CASES**



# INTERNET OF FRUIT

- **Fresh table grapes chain:** real-time monitoring and control of water supply and crop protection of table grapes and predicting shelf life
- **Big wine optimization:** optimizing cultivation and processing of wine by sensor-actuator networks and big data analysis within a cloud framework
- **Automated olive chain:** automated field control, product segmentation, processing and commercialisation of olives and olive oil
- **Intelligent fruit logistics:** fresh fruit logistics through virtualization of fruit products by intelligent trays within a low-power long-range network infrastructure





# INTERNET OF VEGETABLES

- **Chain-integrated greenhouse production:** integrating the value chain and quality innovation by developing a full sensor-actuator based system in tomato greenhouses
- **Added value weeding data:** boosting the value chain by harvesting weeding data of organic vegetables obtained by advanced visioning systems
- **Enhanced quality certification system:** enhanced trust and simplification of quality certification systems by use of sensors, RFID tags and intelligent chain analyses

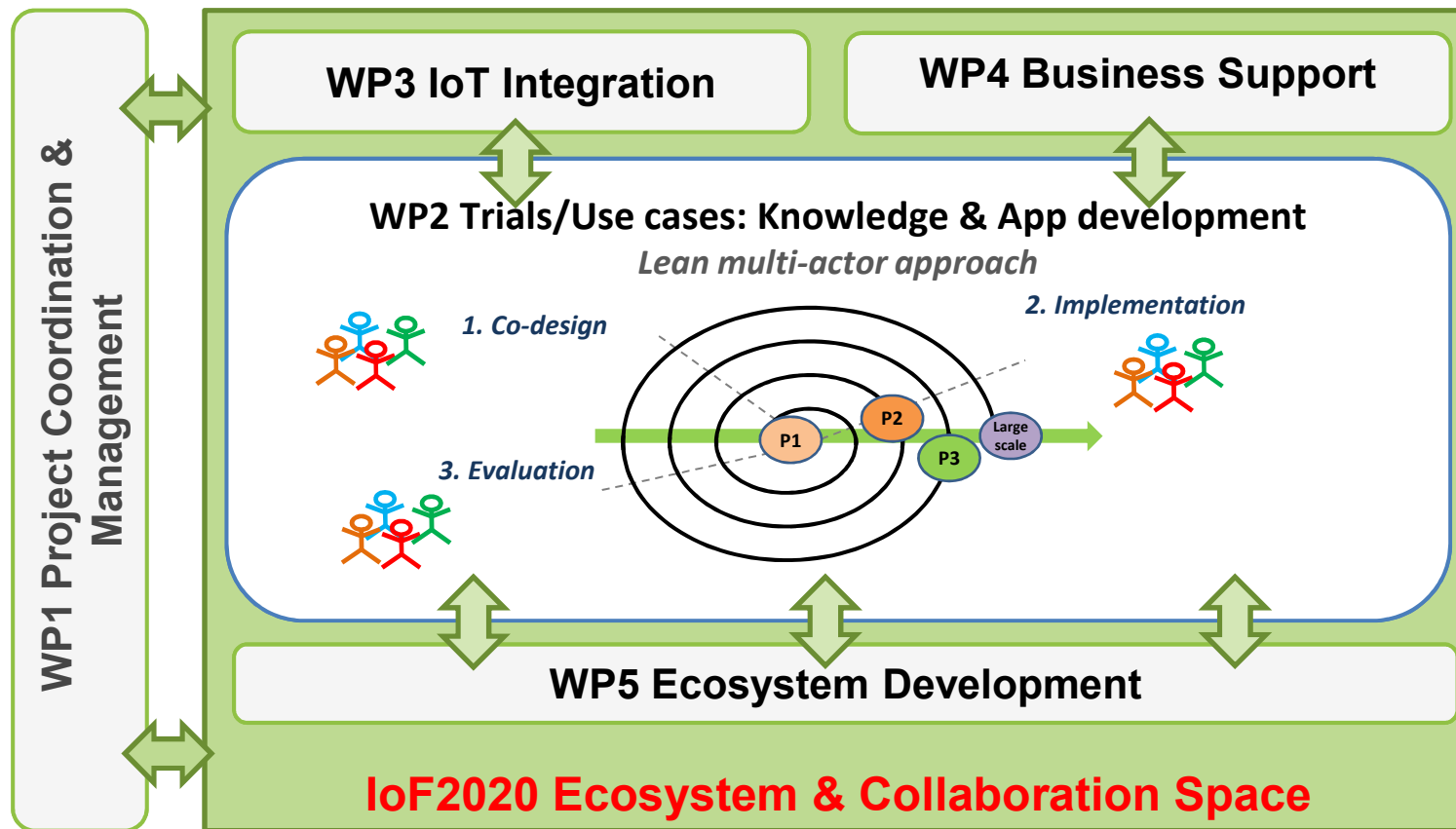


# INTERNET OF MEAT


- **Pig farm management:** optimise pig production management by interoperable on-farm sensors and slaughter house data
- **Poultry chain management:** Optimize production, transport and processing of poultry meat by automated ambient monitoring & control and data analyses
- **Meat Transparency and Traceability:** enhancing transparency and traceability of meat based on an monitored chain event data in an EPCIS-infrastructure



# GENERIC APPROACH & STRUCTURE



# STAY-TUNED VIA

- Website: [www.iof2020.eu](http://www.iof2020.eu)
- Twitter: <https://twitter.com/loF2020> 
- Newsletter subscription & contact: [communications@iof2020.eu](mailto:communications@iof2020.eu)

**THANK YOU FOR YOUR ATTENTION!**

## **CONTACT INFORMATION**

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