The IoF2020 Story

IoF2020 & SDGs
IOF2020 IN BRIEF

70+ PARTNERS ORGANISATIONS

16 COUNTRIES

4 YEARS
Start = January 2017

€35 MILLION BUDGET
(€30 million co-funded under EU H2020 programme)
IoF2020 paves the way for:

- Sustainable, flexible and adaptable farming;
- A data-driven farming;
- Autonomous farm operations;
- Integrated and transparent agri-food chain;
- Virtual food chains;
- Interoperable farm activities;
- A personalized nutrition of the European citizens.
OPEN CALL

- Launch on June 5th 2018 at IoT Week in Bilbao, Budget €6 million
- Objective: Increase scale & impact of IoF2020 initiative with new use case teams and diverse stakeholders
- Major challenges:
  - IoT use cases in new regions (Eastern and Northern Europe)
  - Post-farm use cases and other sectors (e.g. logistics, processing, retail, end consumer)
- Proposals with multi-actor approach, high impact on supply chain, technical feasibility & innovation, strong economic sustainability
- Pre-registering phase just opened: iof2020.eu/opencall
5 TRIALS, 19 USE CASES

- ARABLE
- FRUITS
- DAIRY
- VEGETABLES
- MEAT
STAKEHOLDERS OF THE IOF2020 ECOSYSTEM

- General public and media
- Policy-makers and regulators
- Scientific community
- Agricultural (independent) advisory services
- NGOs & interest organisations
- Investors
- Consortium partners
- Business support organisations
- Educational institutions
- Farmers & cooperatives
- End-users
  - Farm equipment suppliers
  - Food processing companies
  - Retailers
  - Transporters
  - Consumer organisations
- IoT technology providers
- Consortia partners
- Business support organisations
  - Accelerators
  - Incubators
  - Chambers of commerce
  - Network(s) of enterprises
HOW CAN IOF2020 CONTRIBUTE TO SDGs?
THE BIGGER PICTURE AND FIRST RESULTS

Integrating the IoT and agri-food sectors for a competitive and sustainable agriculture that addresses SDGs:

2 NO HUNGER

12 RESPONSIBLE CONSUMPTION

13 CLIMATE ACTION

15 LIFE ON LAND

“The future of farming is now.”
Promotes food security and improved nutrition with the help of sustainable agriculture.

IoF2020 will directly optimize farming practices:

- **More food with less inputs** by increasing agricultural productivity and **reduction of food waste**.

- Improving **feed efficiency** for breeding animals and **reduction of animal mortality**

- **Optimized plant density** and crop **yields increase**

- Fruits & vegetables **shelf life; traceability and quality increase**

- **Quality and safety** of dairy products increase
Aims at increasing resource and energy efficiency, sustainable infrastructure and better quality of life.

- Use of DSS to reinforce the decrease of antibiotics use and to reduce soil herbicide use
- Site specific best protein/ha (Soil scanning + site specific irrigation, fertilization and weeding)
- Sensing of soil condition to use less water and nutrients
- Farmer work time reduction and decrease of inspection costs
- Improve certification schemes
Addresses the hazardous effects of the climate change by strengthening resilience and adaptive capacity, improving education and raising awareness.

IoF2020 will directly reduce the footprint of agricultural activities through the optimization of farming practices:

- Preservation of the fertility of the soil and less environmental impact of the entire agricultural sector
- Monitoring tools and support to improve land use, reduce GHG emission and reduce waste
- Increasing the yield per ha
Promotes sustainable forest management, combats desertification, halts loss of biodiversity and reverses the land degradation.

- **IoF2020** helps maintaining **farms with diversity** as it allows to act differently on specific sites within the farm.

- Soil sensor monitoring tool to **reduce nutrients use, inspection time**, and **optimize energy and water use**.
IOF2020 SETS AMBITIOUS TARGETS

- **50 MILLION EURO MARKET POTENTIAL**
- **14 MILLION HA POTENTIAL AREA COVERED**

**4% YIELD INCREASE**
**10% RESOURCE USE EFFICIENCY**
**-15% OIL HERBICIDE USE**

**> 1,500 FARMERS ACROSS THE EU REACHED**
**-10% FARMER LABOR TIME**

**PROCESSING EFFICIENCY IMPROVED**
**QUALITY & SAFETY OF DAIRY PRODUCTS INCREASED**

**IRRIGATION & LABOR COSTS REDUCED**
**SHELF LIFE & QUALITY INCREASED**

**-20% PESTICIDES & FERTILIZERS COSTS**

**> 10,000 MEASURED RENTAL TRIPS**
**> 1,000 TRANSPONDERS**

**MITIGATION OF MILK YIELD LOSSES**
**DECREASE OF ANTIBIOTICS USE**

**ANIMAL WELFARE IMPROVED**

**BOOST IN MILK PRODUCTION**
IOF2020 SETS AMBITIOUS TARGETS

**SHELF LIFE**
- Excellent shelf life at an acceptable cost
  - + 5% production crop/m²
  - - 5% work time

**QUALITY**
- Transparency in food quality
  - Cost & input reduced
    - -90% human error
  - -5% certification time
  - -50% use of paper

**> 2,000**
- Pig records
  - - 10% pig mortality
  - + 10% feed efficiency

**> 50%**
- Reduction inspection costs

**SHARE**
- Data of pork quality with supply chain
SUMMARY IMPACT

• IoF2020 helps to do better what we already do: reduction of inputs, certification, animal welfare monitoring, soil in depth knowledge, adaptation to rapid changes (climate but also market)
Meet us at the IoF2020 Booth 27 & 28!

STAY-TUNED VIA

- Website: www.iof2020.eu
- Twitter: @IoF2020
- Facebook: IoF2020
- Newsletter subscription & contact: communications@iof2020.eu
Thank you
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