Smart sensor systems 4 agri-food

Working Committee
Semi-annual Meeting

11th June 2018, Seinajoki, Finland

Overall objective

Prepare all the agri-food companies to make the leap towards industry 4.0:

- Introduce new technologies and inspire and enable the companies to use these
- Connect to the cloud
- Use the available data in the agri-food system

…and in the end …

Become a more interconnected, resilient and smart agri-food system in Europe

Specific objectives

- Set-up a network of interlinked, open access living labs to facilitate the implementation of smart sensor systems in the agri-food industry:
  - Staffed with competent, multidisciplinary teams
  - Facilitate awareness creation, give demonstrations, trainings and workshops
- Establish support services for business creation and technology intelligence
- Develop generic business models that can facilitate concrete, interregional investments and investment projects

FF
FLANDERS' FOOD
imec
FLANDERS MAKE
MANUFACTURING INNOVATION NETWORK
dsp valley
designing smart products
KU LEUVEN
FLANDERS INNOVATION & ENTREPRENEURSHIP
Clusters for Innovation
Pack4Food
FOOD PILOT
DANISH FOOD CLUSTER
AgriFood Capital
FOOD-PROCESSING INITIATIVE
ILT.NRW
INSTITUT FÜR LEBENSMITTELTECHNOLOGIE
inIT
where food meets IT
OWL
Hochschule Ostwestfalen-Lippe
University of Applied Sciences
wagralim
Appetite for Innovation
cra-w
instituto tecnológico de galicia
INNOSKART
IKT Klaszter
Campden BRI
food and drink innovation
asincar
centro tecnológico agroalimentario
Céréales Vallée
MINALOGIC
terralia
RÉSEAU D'INNOVATION ET DE CROISSANCE
ViaMéca
MONZA Brianza
Green & High Tech
FONDAZIONE DISTRETTO
si·cluster
a corallia initiative
ain

Progress of our partnership to date

- Meeting with the partnership (21/02/'18) – Objectives:
  - Getting to know each other better
  - Presentation draft scoping note + discussion
  - COSME and Innosup-project
- Workshop in the framework of the EU Industry Days (22/02/'18):

  "Upgrading EU Agri-food Industry to the Digital Age: Smart Sensor Systems 4 the Agri-Food Industry"

Progress of our partnership to date

- Workshop EU Industry Days – brainstorm:
  - Group 1: Valorisation and implementation strategy
  - Group 2: EU funding programs: opportunities and needs
  - Group 3: Regional strategies and role of living labs
  - Group 4: Good practices and bottlenecks: case studies

  ➔ Input used in the scoping note
- Scoping note finalized:
  - Scoping note = first step: overview of regional strategies, regional expertise and know-how and regional priorities for co-operation

Progress of our partnership to date

- Project proposals submitted:
  - COSME - European strategic cluster partnerships for smart specialisation investments - COS-CLUSTPARTNS-2017-3-02 – Submitted: 8/03/'18:
    - Connsensys: **Conn**ecting smart **sen**sor **sys**tems for the food industry
      1. Strategy and roadmap development
      2. Establishing an interregional platform of living labs + organise study visits and matchmaking events
      3. Set-up inter-regional demo cases and elaborate generic business models
      4. Awareness creation towards agri-food industry + building strong community

Progress of our partnership to date

- Project proposals submitted:
  - INNOSUP-01-2018-2020: Cluster facilitated projects for new industrial value chains – first stage submitted: 12/04/'18:
    - S3Food: Smart sensor systems for food safety, quality control and resource efficiency in the food processing industry
      - Building further on COSME project
      - Establishing support mechanisms for SMEs → facilitate access to network of regional agri-food smart sensor living labs

European Commission

5 steps to success

1 **Awareness**

2 **Building trust zone:** Community creation

3 **Validation track:** Define, Test / validate

4 **Implementation**

5 **Leverage**

Existing and new industry 4.0 relevant technologies: **TRL 5 - 9**
→ Demand driven (agri-food) and implementation oriented

Platform creation with:
Companies (cross-sectoral), cluster organizations, RTO's

Collective, applied research
→ on site validation of technology

Concrete investment projects

Bilateral projects (im-plementation oriented)

New research topics

Living labs + testimonials

Missing partners
→ Build resilient and interconnected agrifood system

Planning in terms of demo cases and potential business cases

- Slow process: creation of trust zone → cross-organizations + cross-chain + cross-sector
- Involve all the relevant stakeholders: from 'problem owner' over 'technology supplier' to 'system integrator' and 'machine builder'

Achieved this on regional level (regional projects/funding) → investment projects, etc.

Interregional: still to be set-up

Steps to be taken defined in COSME + Innosup (Go/no go)

Challenges

- Solved:
  - Noses in the same direction – goals are clear – solid common ground
  - Via discussions and meetings in the framework of COSME and Innosup project
- Existing bottlenecks and/or challenges:
  - Big upfront time and resources investment → especially for the lead region
  - Sometimes difficult to motivate the regions / organizations to actively participate
  - Should establish and agree on governance structure
  - Funding is crucial for continuity of the partnership

Future plans

- Detailed mapping with focus on:
  - Business needs and challenges
  - Existing technology providers (academia, companies)
  - Business advisory services and funding mechanisms
- Start discussion about governance structure
- Fall 2018: start developing business model and financial plan to provide a robust framework for future joint activities

  ⇒Foresee meeting
- Strategy building and roadmap development
- Defining and establishing network of living labs