SMART SENSORS 4 AGRI-FOOD

FLANDERS' FOOD

SPEARHEAD CLUSTER FOR AGRIFOOD

Industry driven innovation platform **with focus on growth and economic value creation**

Networked organization **with academic partners** *(universities, RTO's as imec, ILVO, …)*

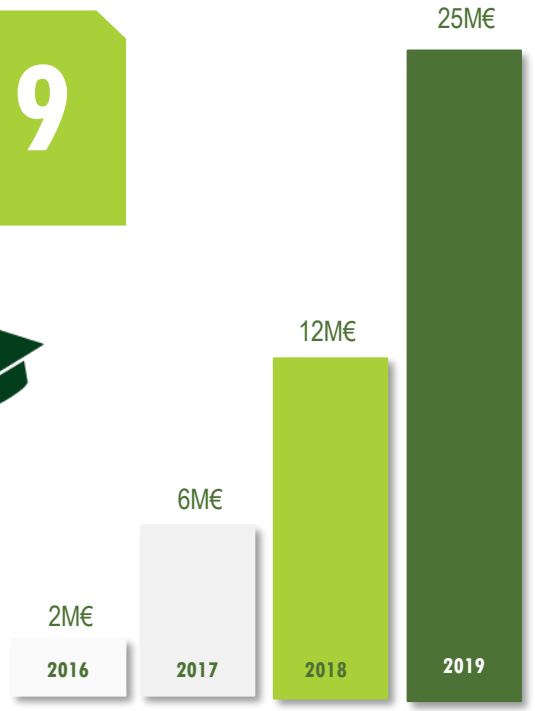
Networked organization **with innovation partners** *(other industry driven clusters)*

Collaboration **with the Flemish government**

Collaboration **with the farmer associations** *(Boerenbond and ABS)* in Flanders

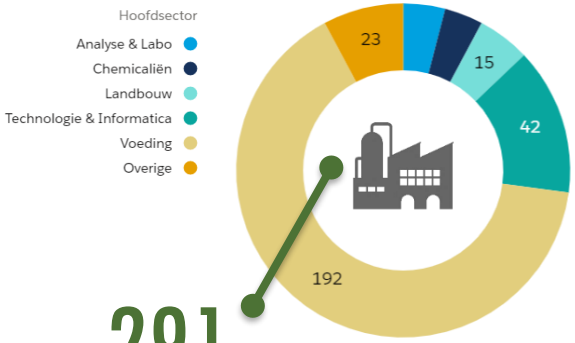
2019

12
Research institutes



Engaged Research budgets

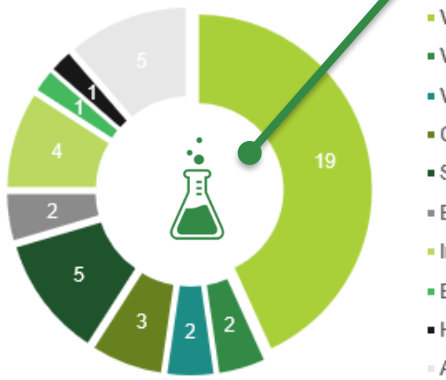
Pilot tests
300+



291 Members (companies)

2.000+
Newsletter readers

45
Events & Trainings



50 Ongoing projects

- VIS-CO
- VIS-Traject
- VIS-Traject innovatievolgers
- COOCK
- SBO
- EFRO
- Interreg
- Eranet
- H2020
- Andere

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Our ambition:

Prepare all the agrifood 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

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Objectives:

Set-up a network of interlinked, open access living labs to facilitate the implementation of smart sensor systems in the agri-food industry:

Facilitate:

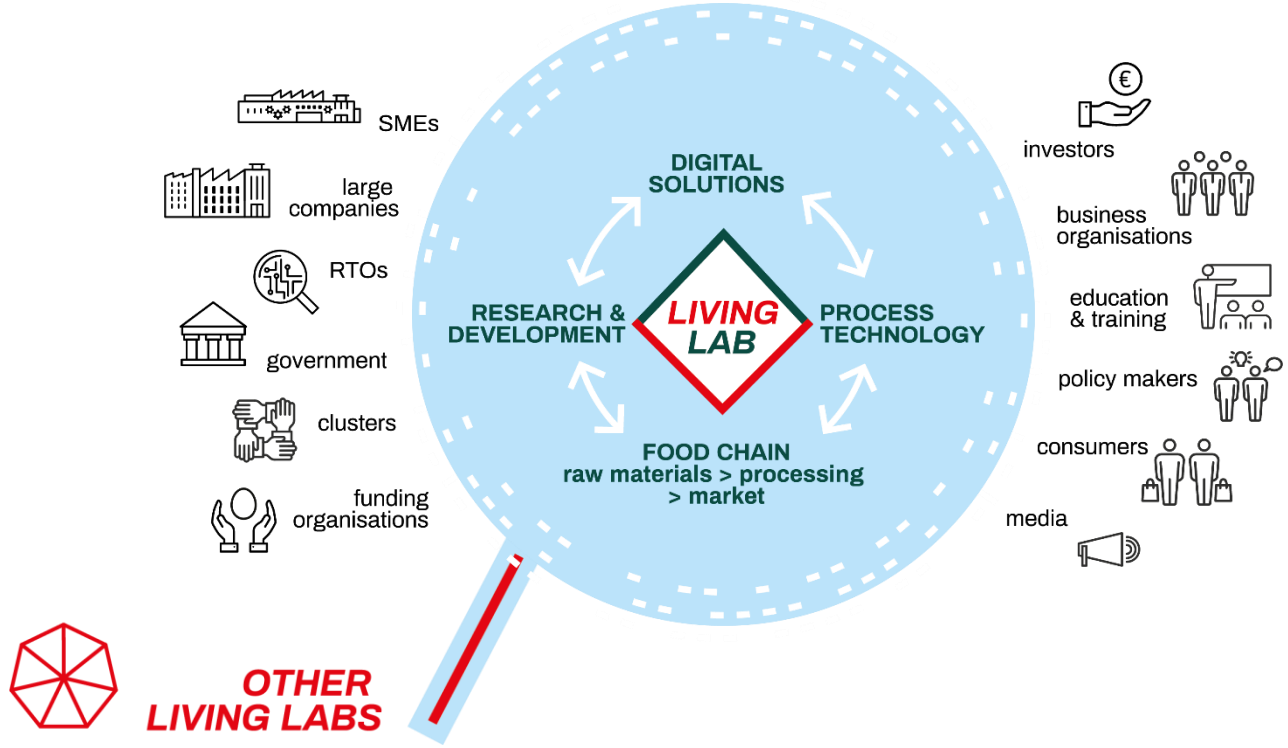
- Inform – create awareness
- Demonstrations
- Training and workshops

Accelerate the implementation of sensors, ICT-platforms, datamanagement systems, etc. in agri-food companies

Cross-border collaborations between companies

LIVING LABS AS PHYSICAL BACKBONE

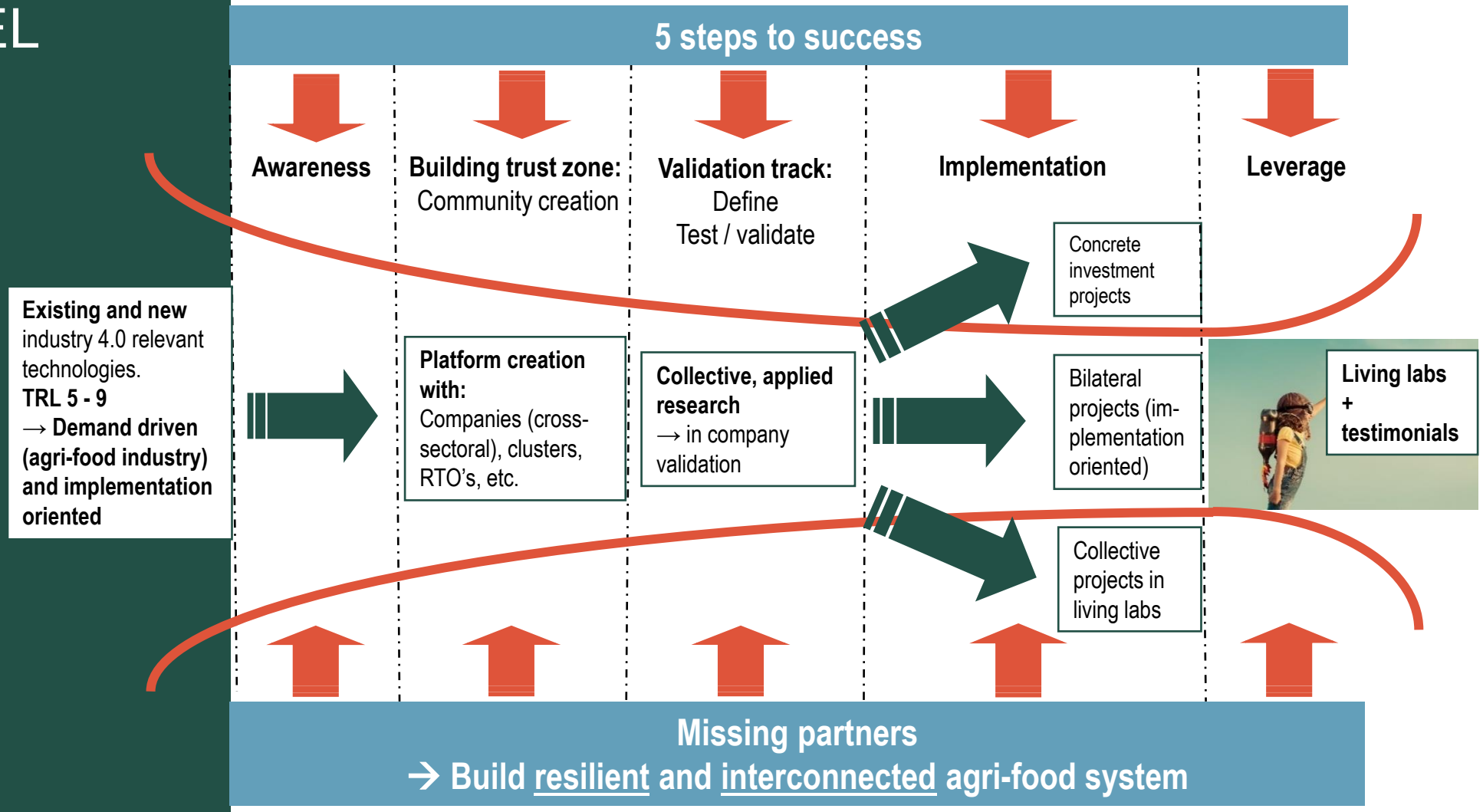
The digital innovation ecosystem:



Living labs for digital innovation in the agri-food industry are innovation driven organisations that **facilitate and foster collaborative innovation between the different stakeholders** in the industry 4.0 ecosystem to **develop, improve, test and validate digital solutions** to specific challenges in the agri-food industry.

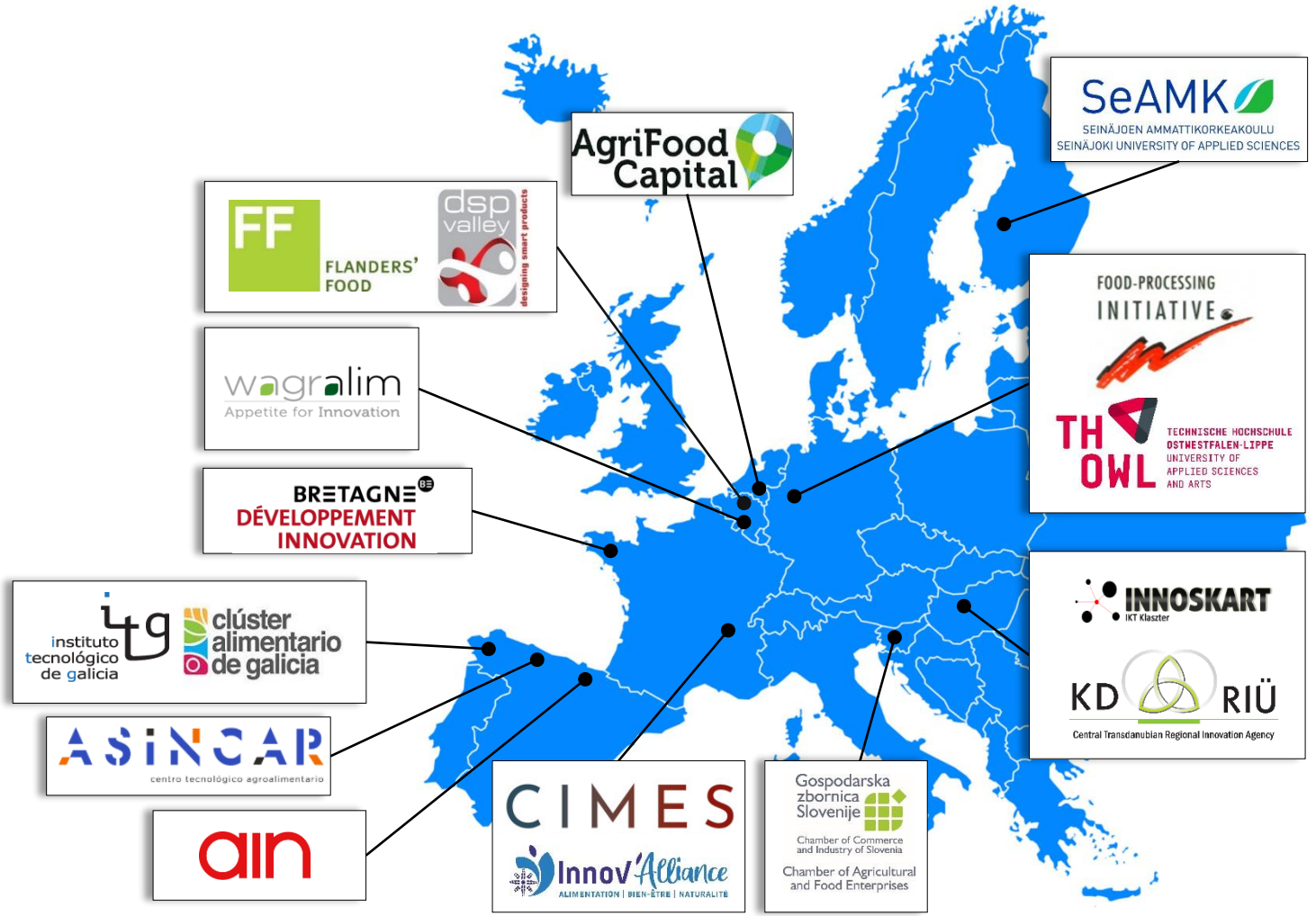
STEPWISE APPROACH: THE FUNNEL

Methodology



THE PARTNERSHIP

Regular members



SMART SENSORS 4AGRI FOOD

EU PROJECTS

Smart Sensors 4 Agri-food: **2 approved projects**

COMSENSYS

Connecting smart sensor systems for the food industry
COSME
1/11/'18 – 31/10/'20

Strategy Roadmap

EU network living labs

Study visits Matchmaking

Demo cases

S3FOOD

Smart sensor systems for food safety, quality control and resource efficiency in the food processing industry
INNOSUP
1/05/'19 – 30/04/'22

Vouchers (€) for SMEs - 2 open calls:

- € 5 mio → 79% for SMEs
- Direct (vouchers): € 2.875.000
- Max € 60.000 / SME

SMART SENSORS 4AGRI FOOD

SMART SENSORS 4 AGRI-FOOD: PARTNERSHIP AGREEMENT

What? Why?

Content:

Cluster Partnership Agreement
(annexes form integral part of this Agreement):

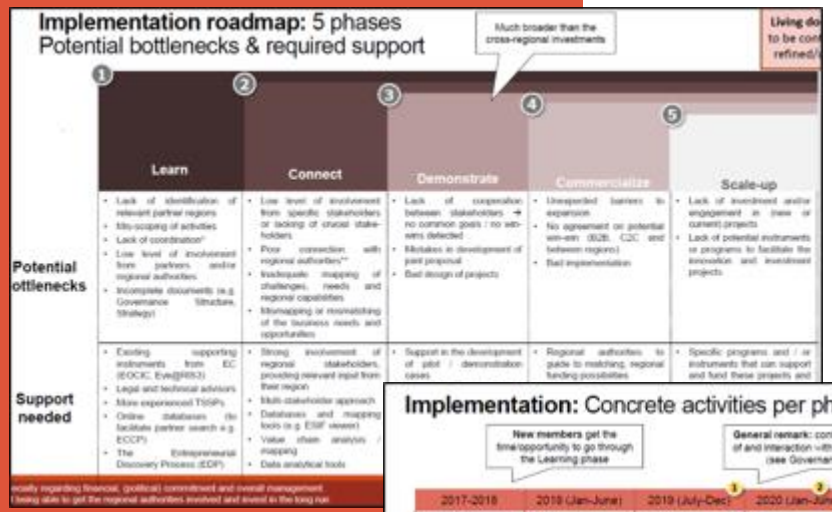
- Annex 1: Governance
- Annex 2: Strategy
- Annex 3: Implementation Roadmap

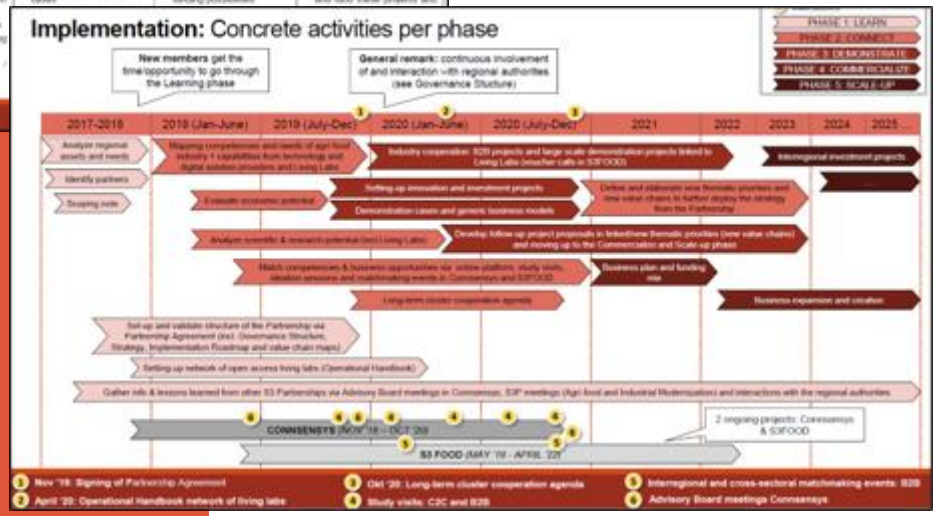
Important!:

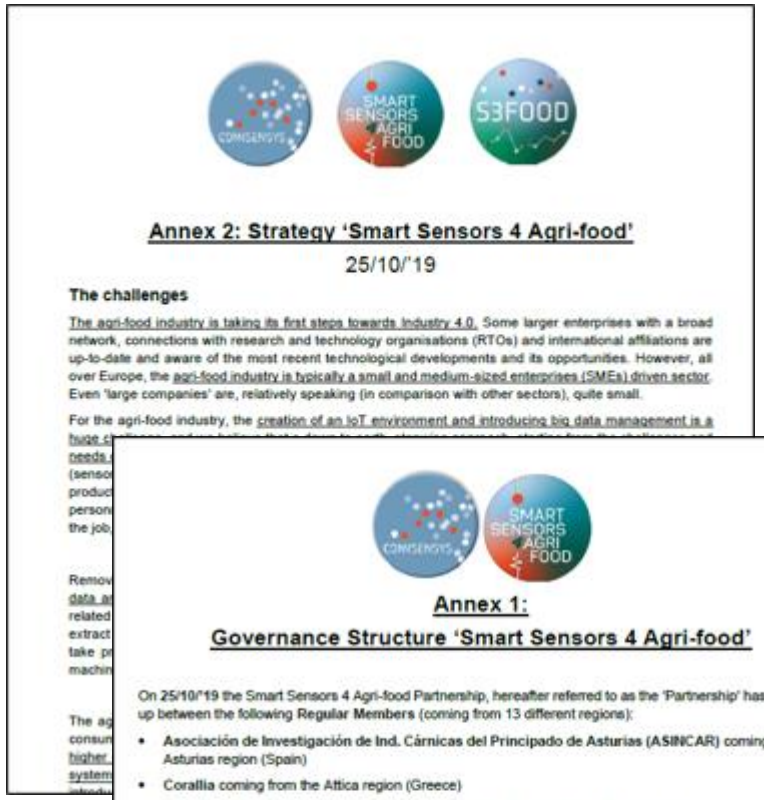
- Guarantee long-term sustainability of our Partnership
- Structure and divide responsibilities between the different Partners

SMART SENSORS 4 AGRI-FOOD: PARTNERSHIP AGREEMENT

12 Regions
17 Regular Members
21 Associated Organizations







Annex 2: Strategy 'Smart Sensors 4 Agri-food'

25/10/'19

The challenges

The agri-food industry is taking its first steps towards Industry 4.0. Some larger enterprises with a broad network, connections with research and technology organisations (RTOs) and international affiliations are up-to-date and aware of the most recent technological developments and its opportunities. However, all over Europe, the agri-food industry is typically a small and medium-sized enterprises (SMEs) driven sector. Even 'large companies' are, relatively speaking (in comparison with other sectors), quite small.

For the agri-food industry, the creation of an IoT environment and introducing big data management is a

Annex 1:
Governance Structure 'Smart Sensors 4 Agri-food'

On 25/10/'19 the Smart Sensors 4 Agri-food Partnership, hereafter referred to as the 'Partnership' has been set up between the following **Regular Members** (coming from 13 different regions):

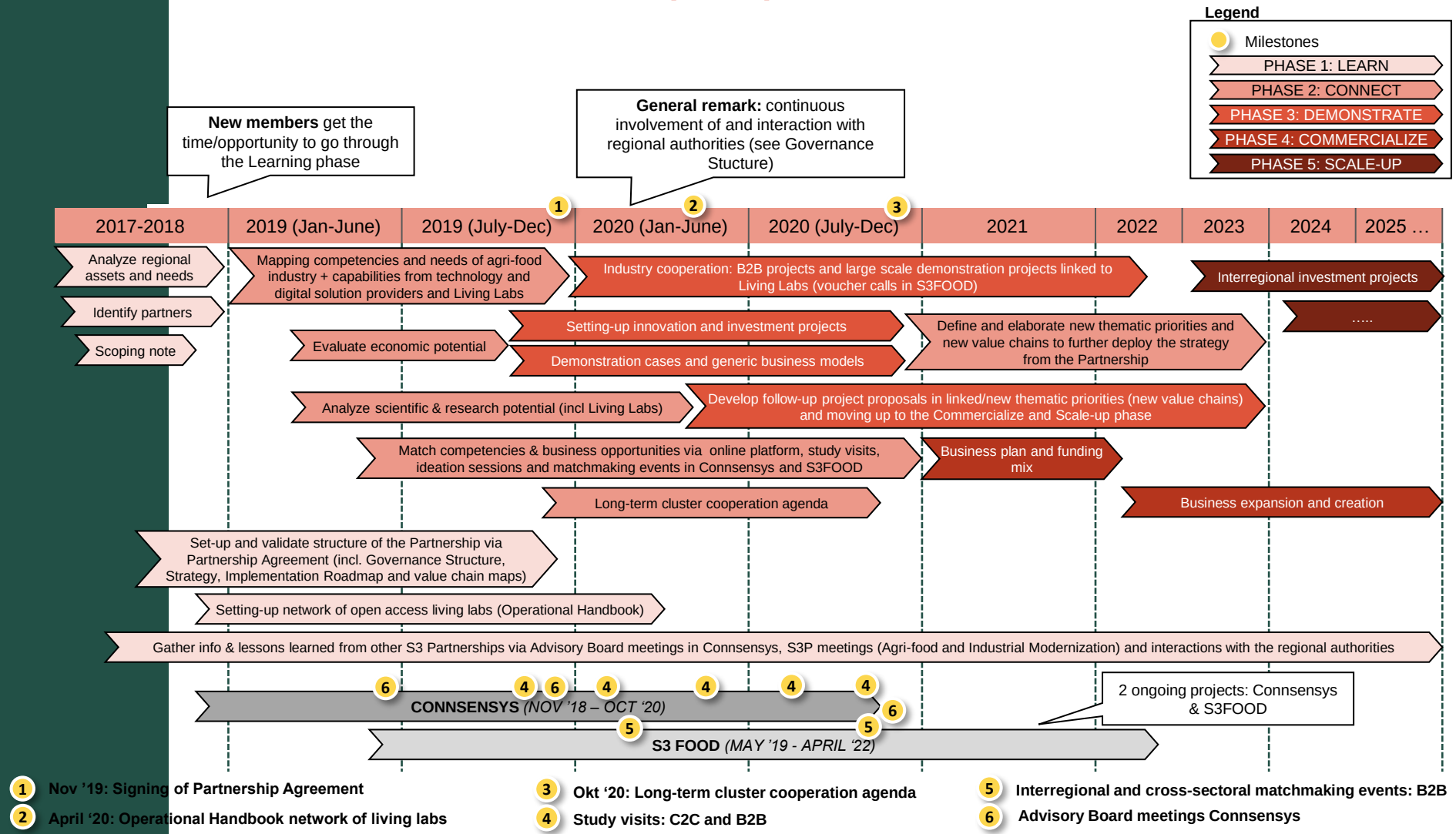
- **Asociación de Investigación de Ind. Cárnicas del Principado de Asturias (ASINCAR)** coming from the Asturias region (Spain)
- **Corallia** coming from the Attica region (Greece)
- **CIMES** and **Terralia-PASS** coming from the Auvergne-Rhône-Alpes region (France)
- **Bretagne Développement Innovation** coming from the Brittany region (France)
- **Danish Food Cluster** coming from the Central Denmark region (Denmark)
- **Innoskart ICT Cluster** coming from the Central Transdanubia region (Hungary)
- **Flanders' FOOD and DSP Valley** coming from the Flanders region (Belgium)
- **Asociación Clúster Alimentario de Galicia (CLUSAGA)** and **Fundación Instituto Tecnológico de Galicia (ITG)** coming from the Galicia region (Spain)
- **Asociación de la Industria Navarra** coming from the Navarra region (Spain)
- **AgriFood Capital BV** coming from the North Brabant region (The Netherlands)
- **Food-Processing Initiative e.V.** coming from the North-Rhine Westphalia region (Germany)
- **CCIS - Chamber of Agricultural and Food Enterprises** with the strategic research and innovation partnership **SRIP HRANA** coming from Slovenia
- **Wagralim** coming from the Wallonia region (Belgium)

The Partnership is also composed by the following **Associated Organisations:**

Region	Associated Organisation(s)
Asturias (Spain)	Instituto de Desarrollo Económico del Principado de Asturias (IDEPA) (public government), Fundación Centro Tecnológico de la Información y la Comunicación (CTIC) (Research & Technology Organisation (= RTO)), Fundación IDONIAL (IDONIAL) (RTO)
Auvergne-Rhône-Alpes (France)	Vegepolys Valley (Cluster) and Minalogic (Cluster)

IMPLEMENTATION ROADMAP

Concrete activities per phase



SMART SENSORS 4 AGRI-FOOD: PARTNERSHIP AGREEMENT

Attention points

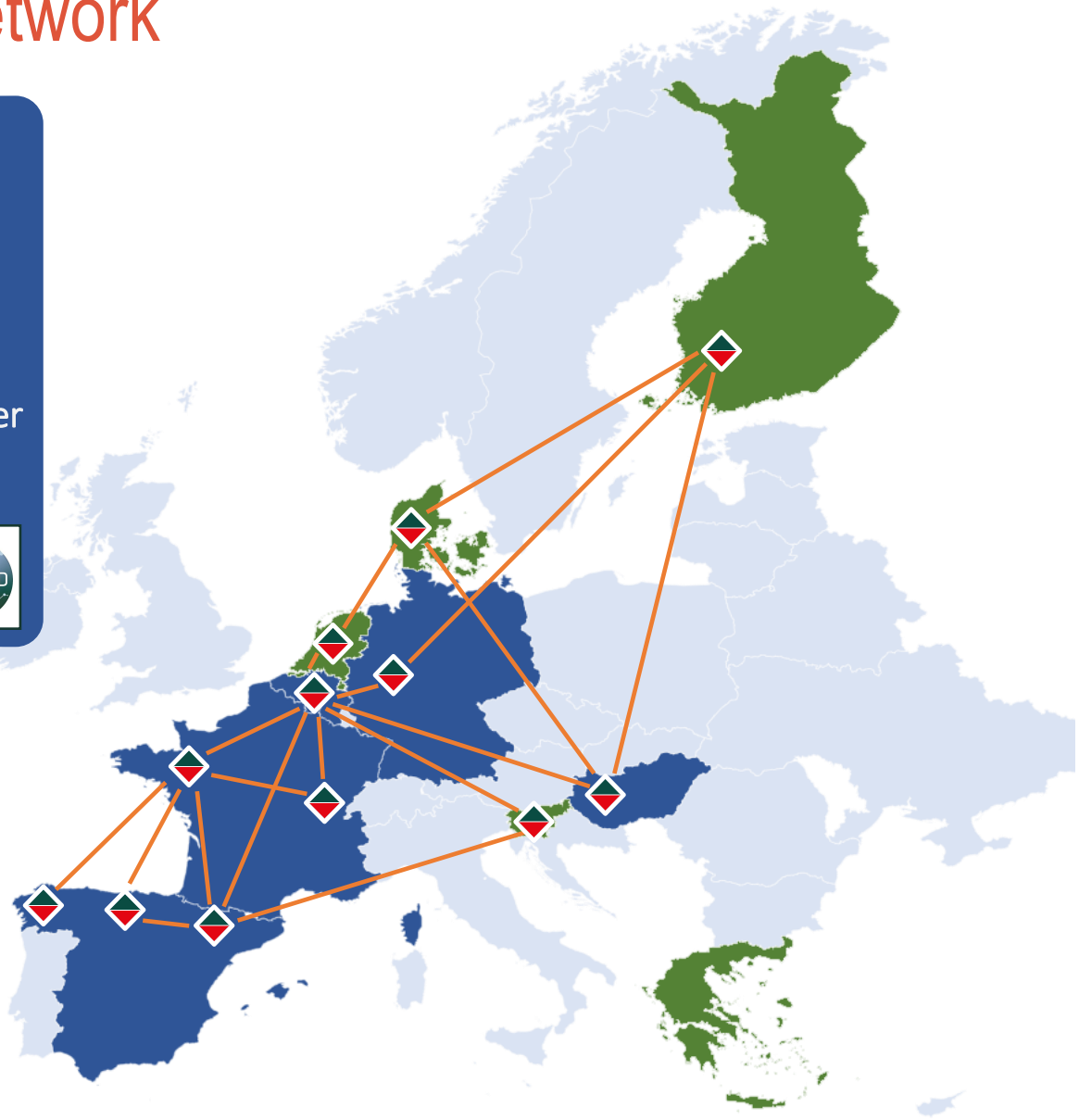
- Agreement between clusters – RTO's:
  - Max 2 Regular Members per region and Associated Organisations
  - Letter of Support from regional authorities
- Informal network of organisations
- Established Office: organized by Flanders' FOOD, who is a legal entity:
  - Will stay fixed at Flanders' FOOD
  - Responsible for all the administrative and financial tasks linked to the Partnership
- Structure:
  - Steering Committee
  - Board
  - Chair and Vice-Chair
  - Working groups: Communication – Project Generation – Technology Intelligence

NETWORK OF LIVING LABS

European network

Operational Handbook

Multi-stakeholder approach

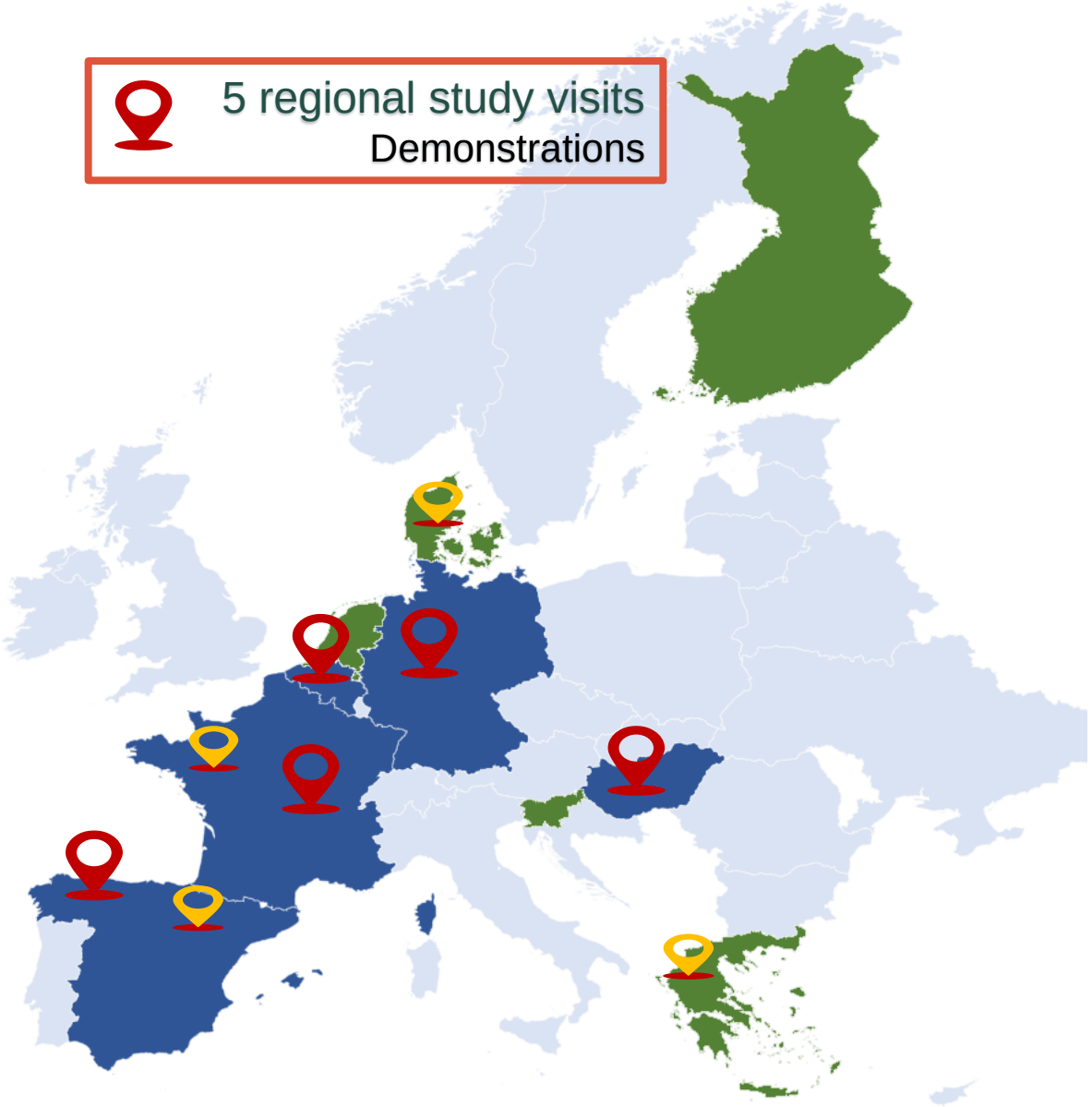


NETWORK OF LIVING LABS

European network

23 Living Labs
Unique expertise and infrastructure

5 regional study visits
Demonstrations



ESTABLISHED OFFICE

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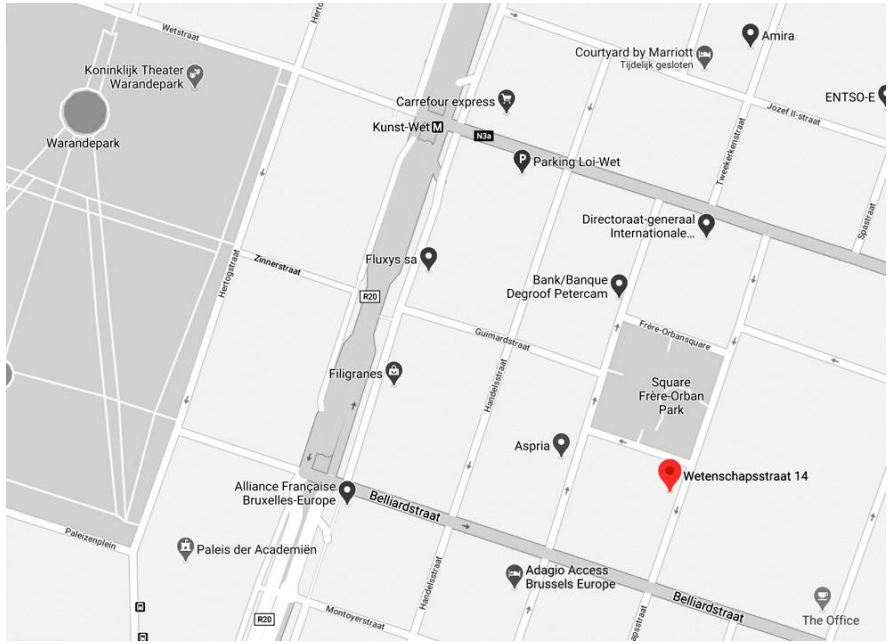

THANK YOU

for your attention