



Food & Bio Global
SUMMIT'23
26-27 September

**Cluster collaboration as powerfull driver for
innovation in food processing**
Veerle De Graef, Flanders' FOOD & Simon Maas, AgriFood Capital

www.foodbioglobal.com

Food System Challenges



Climate change



Growing population
Food Security



Sustainable production



Consumer Preferences & Health Consciousness
Changing demographics



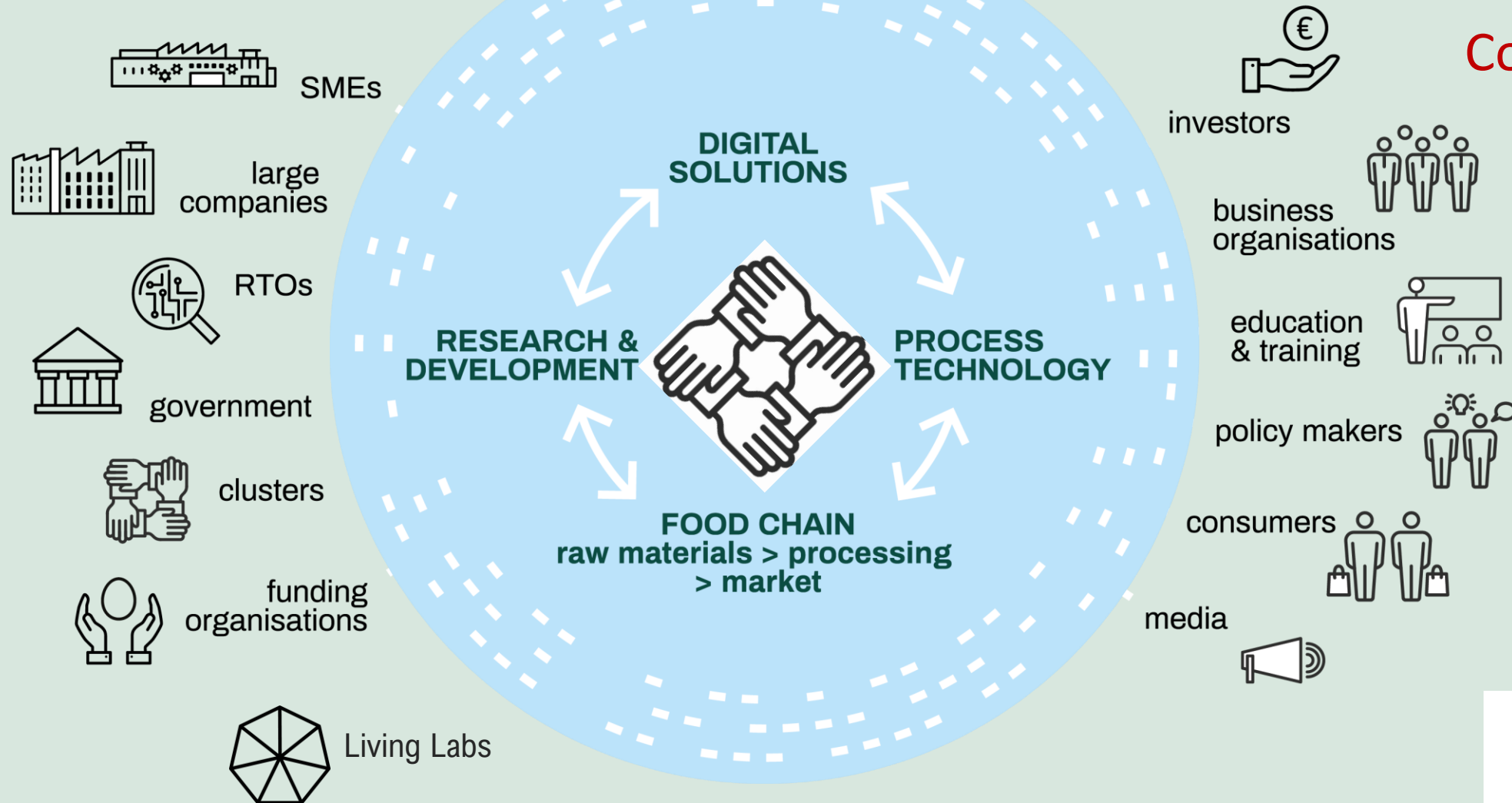
Complexity of the supply chain



Food consumption/ waste

Cluster organisations as enablers to finding these new pathways

Trust
Proximity
Collaboration



Cluster organisations as enablers to finding these new pathways

Support

- Innovation-driven growth & competitiveness
- Companies of specific industries and geographical areas
- Trust & proximity

Collaborate

- Mobilising quadruple helix innovation systems
- Fostering collaboration between all stakeholders
- Create regional collaboration rather than competition

Inspire & Enable

- Facilitating transfer of knowledge and best practices
- Providing access to resources and opportunities

Connected Cluster Organisations



The power of moving together with a shared purpose and collective, coordinated voice.

S3 partnerships

- Supported by regional authorities
- Examples of cross regional cluster organisation collaboration
- **S3 Agri-food partnerships:** The S3P Agri-food focuses on RIS3 priority areas related to agriculture and food and further proposed by the regions which are keen to act as coordinating/leading region(s)



Consumer involvement



High Tech Farming



Ingredients for a Circular Economy



Smart Sensors 4 Agrifood

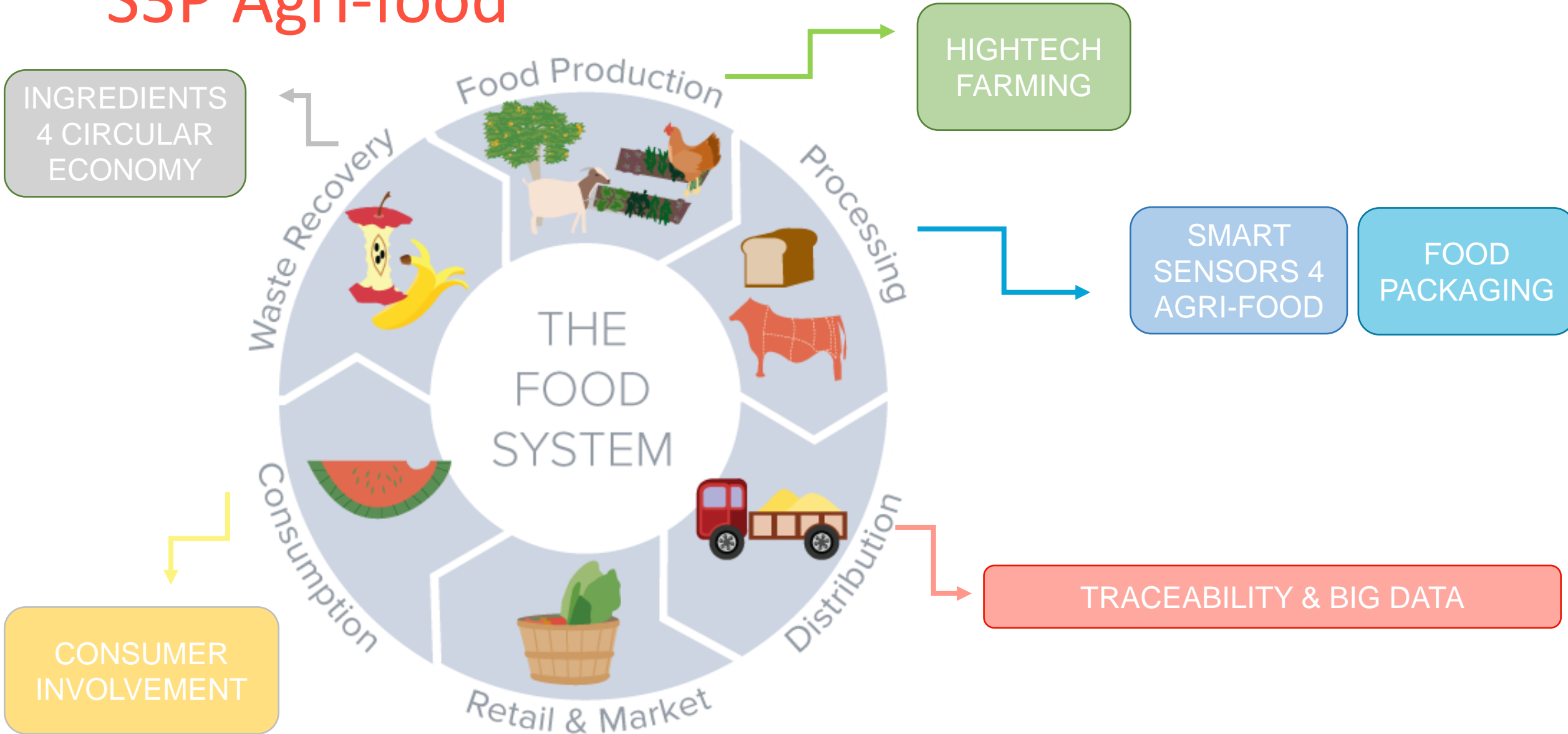


Traceability & Big Data



Food packaging

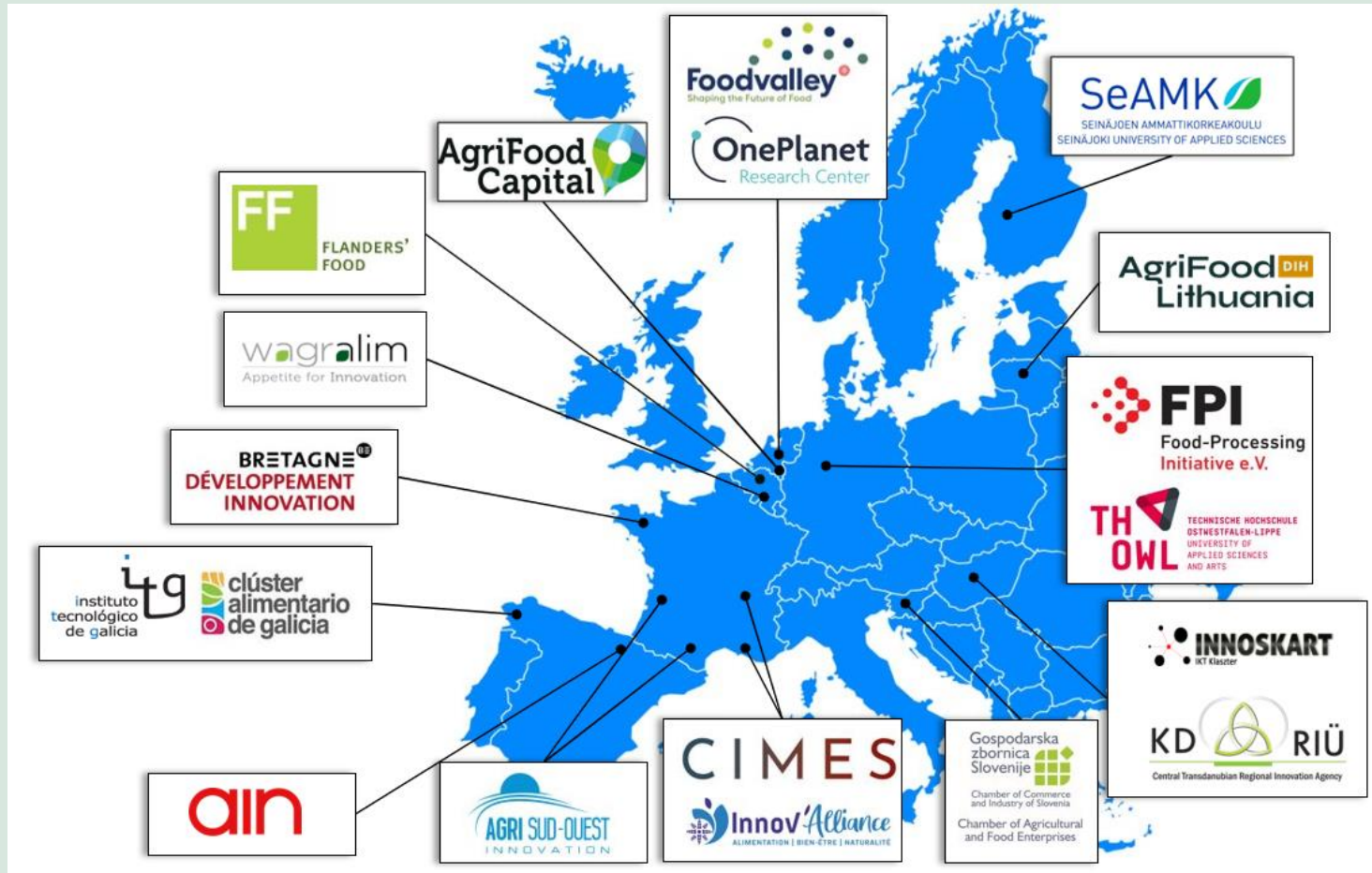
S3P Agri-food



Smart Sensors 4 Agrifood (SS4AF)

Facilitating digitalisation of the agri-food industry in order to become more sustainable and resilient

- Initiated in **2017**
- **19** Regular Members
- **22** Associated Organisations
- Representing **17** different regions & **9** Members States



SS4AF objectives

- ✓ Establishing a platform **connecting** agri-food clusters with technology and digital solution providers, RTOs, and stakeholders, simplifying access to cutting-edge digital technologies.
- ✓ Creating a **network of Living Labs**, serving as hubs for demonstrating, testing, and organizing training sessions, workshops, and demonstrations linked to Industry 5.0 technologies for agri-food companies .
- ✓ **Fostering a trust zone through collaboration** between clusters and RTOs, facilitating expertise exchange, and accelerating the integration of Industry 5.0 technologies across the broader agri-food industry landscape.

Connecting challenges to solutions



Improved
efficiency



Higher quality



Sustainable
production &
product



Better food
safety



Sensors to
monitor real-
time critical
control
parameters



Sensor
integration and
implementation



Smart data
management

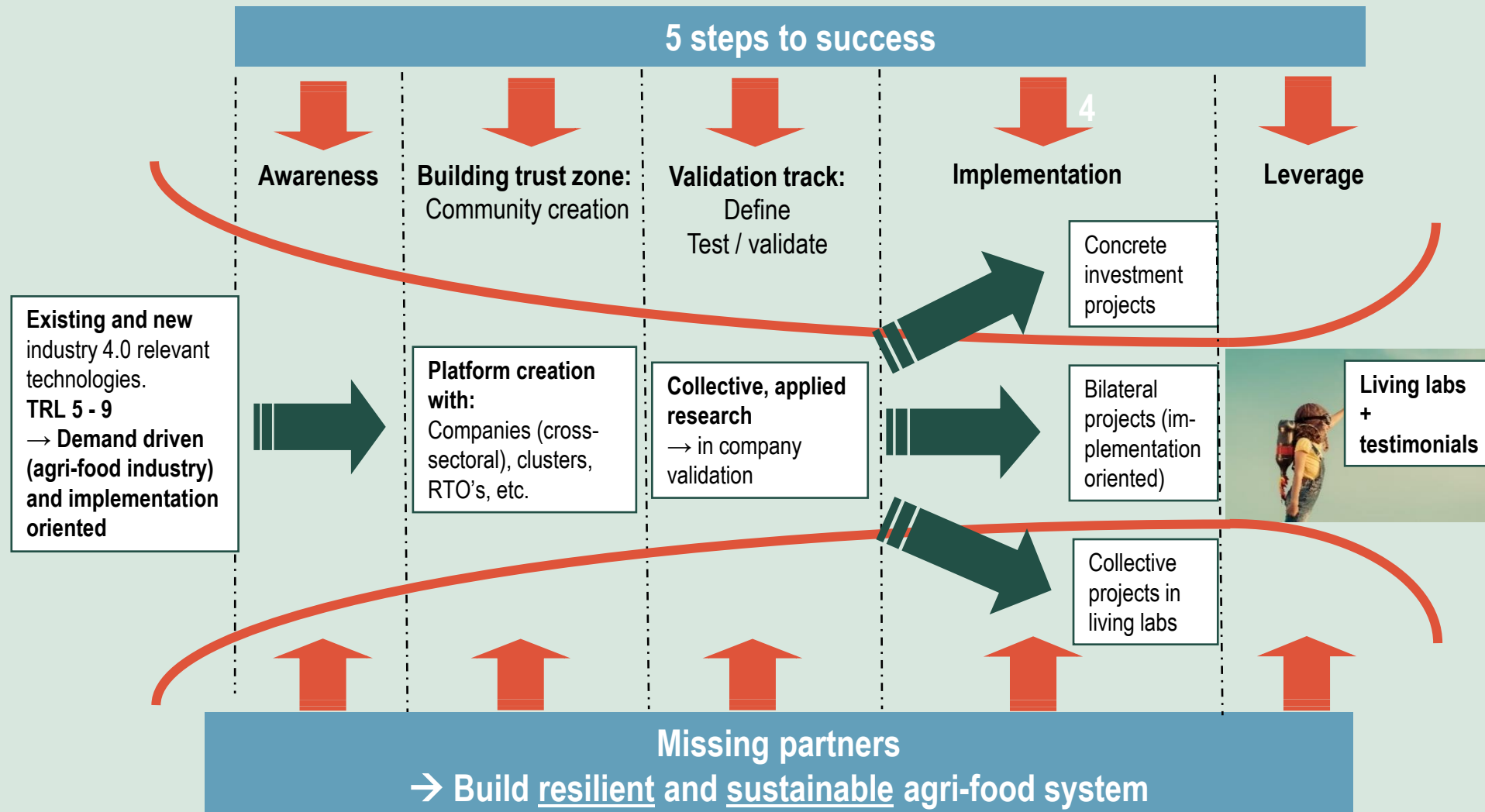


Connectivity in
food
companies and
in the food
value chain

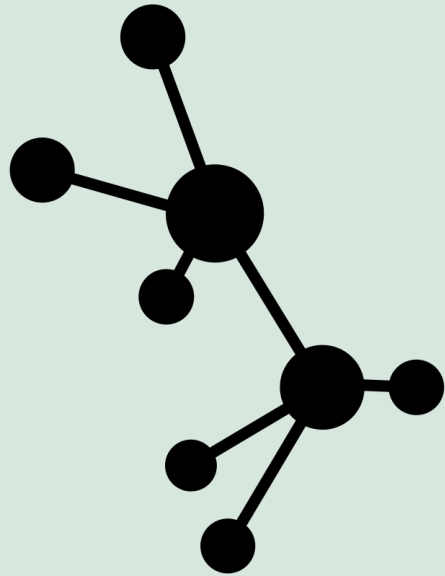


Human centric transformation and implementation strategy

Stepwise approach



How do we collaborate



Partnership agreement

www.SS4AF.com



Agreement between clusters – RTO's:

Regulars Members and Associated Organisations

Supported by the regional authorities



Structure:

Steering Committee
Board

Chair and Vice-Chair
Working Groups



Established office
@Flanders' FOOD

Responsible for:

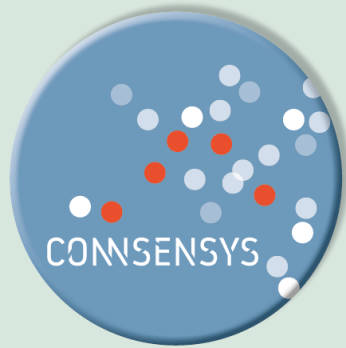
Interaction with EC, other partnerships, etc.

Coordination of meetings, follow-up of tasks and agreements, etc.

Administration & finance



EU projects completed



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



Smart sensor systems for food safety, quality control and resource efficiency in the food processing industry
INNOSUP
1/05/'19 – 30/09/'22



Vouchers (€) for SMEs - 2 open calls:

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

EUROPEAN CLUSTER PARTNERSHIP OF THE YEAR 2022 AWARD



EUROPEAN CLUSTER
CONFERENCE 2022



S3FOOD
BE, DE, ES, DK,
FR, GR, HU, NL

dreamyteam

EU projects ongoing



Expanding the European digital agri-food acceleration ecosystem

HORIZON - CSA

01/09/'22 – 31/08/'24

€ 993.786,44 (100% EU-funded)

10 organisations covering 11 regions in 5 countries

Mission

- *develop higher quality business acceleration services in agri-food digital innovation ecosystems (...),*
- *expand the connections, knowledge exchange and collaboration (...),*
- *balance the scaling-up of start-ups and SMEs (...)*



enHancing dligital and Green growthH in the Food processing industry via Interregional innoVation invEstments

HORIZON - I3-2021-INV1-MANU

01/12/2022 – 30/11/2025

€ 11.605.782,82 (70% EU-funded)

15 cluster partners & 18 industrial partners covering 39 NUTS 2 regions

Mission

- *foster, enable and facilitate SME targeted and interregional investment actions to implement or bring to the market innovative digital solutions to concrete challenges of the food processing companies*



DIGITAL INNOVATION
IN AGRIFOOD INDUSTRY



13 partners
and **3** linked
third parties



8
countries



5
million
Euros

Who have we helped?

500+

EU food SMEs and
digital technology
providers have
benefited from
S3FOOD support,
services and events



75

unique SMEs have
received direct
funding for digital
innovation projects

What have we funded?

39



EXPLORATION
PROJECTS

1st stage technical
analysis and
feasibility studies

10



VALIDATION
PROJECTS

Validation of
digital solutions
in context

9



APPLICATION
PROJECTS

Implementation
of new digital
solutions on site

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S3FOOD
BE, DE, ES, DK,
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EUROPEAN CLUSTER
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digital
innovation



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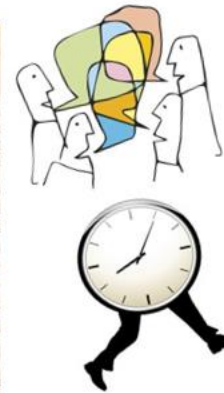
S3FOOD Voucher : 'A continuous eye on biscuit quality'



Problem definition



COLOR



OVEN SETTINGS



S3FOOD Voucher ' Mobile Robots 4 Flexible Food Production'



The Challenge:

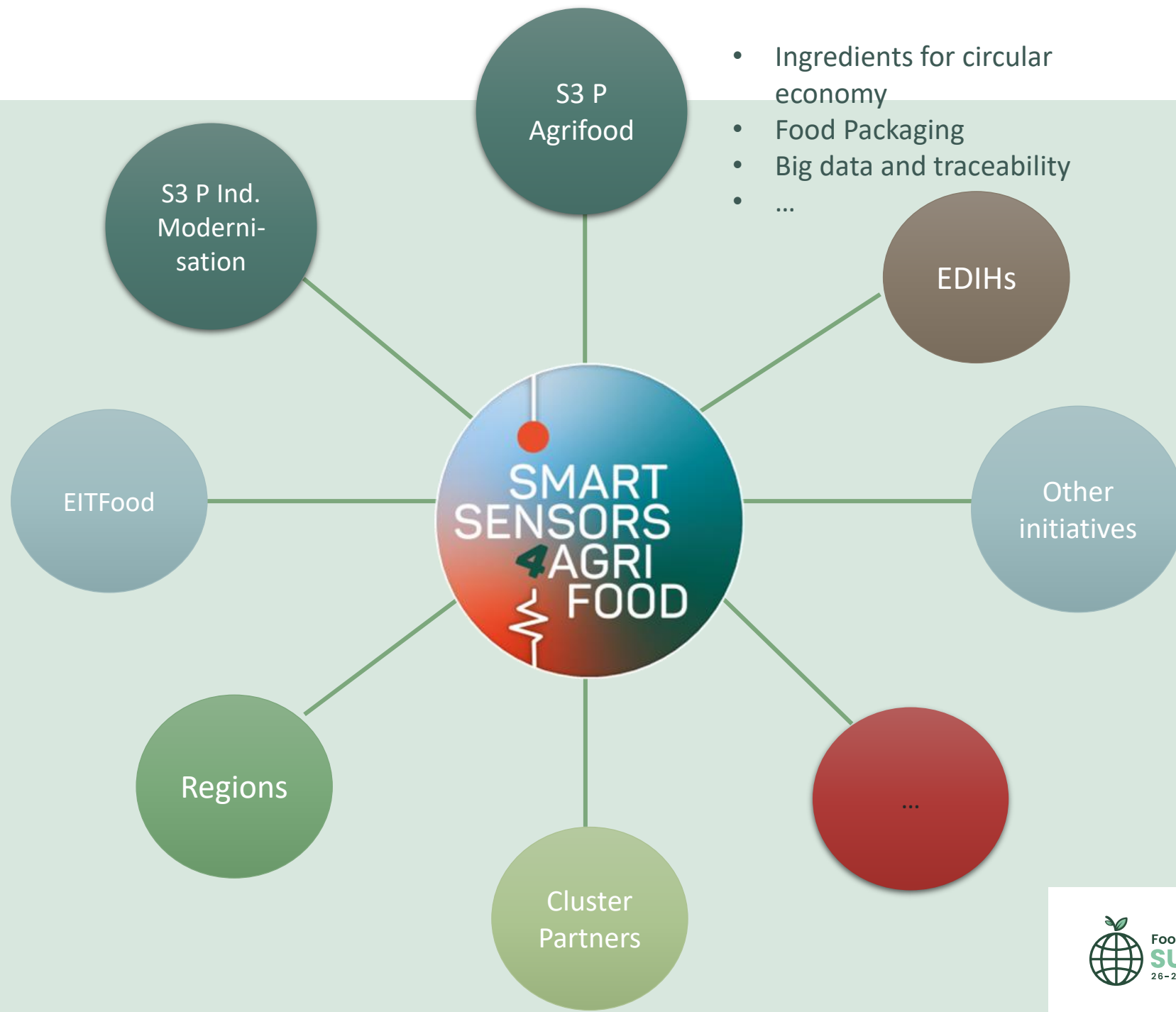
- Monotonous and heavy work in the bakery makes it increasingly difficult to find employees.
- Traditional automation is too costly and inflexible when production only runs for a few hours a day.

The Solution

- Mobile robots that can perform a range of tasks at various workstations.



Expanding the network





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 Danish Board of
Business Development

