Fostering collaboration: mapping, analysing and interlinking European Entrepreneurial Regions

Online meetup Agri-food
26 January 2021, 10:00-12:30 CET

The S3 High Tech Farming Partnership

Regione Toscana

SMART SPECIALISATION PLATFORM

Fabio Boscaleri

Policy Advisor at Tuscany Region Brussels Office
& Brussels coordinator of the S3 HTF Partnership

fabio.boscaleri@regione.toscana.it

Index

1. The S3 Agrifood Platform

▶ Initiative of the European Commission DG REGIO started in 2016 (Kick off event in Florence) to thematically connect European Regions through their Research and Innovation Smart Specialization Startegies (RIS3) - https://s3platform.jrc.ec.europa.eu/agri-food

▶ **5** active partnerships:

   ▶ Consumer Involvement (Ostergötland / Regio FOOD Valley)

   ▶ **High Tech Farming (Toscana)**

   ▶ Nutritional Ingredients (Wallonia)

   ▶ Smart sensors for agri-food (Flanders)

   ▶ Traceability & Big Data (Andalusia and Emilia Romagna)

▶ Overall aims:

   ▶ Support Regions in developing interregional synergies to increase the impact of R&I expenditure and promote Interregional Innovation Investments

   ▶ Promote Integrated European Value-Chains

2. The S3 High Tech Farming Partnership

Focus

New and High technologies relevant for farming practices (sensoring, data acquisition/management, automation/robotics, including ancillary activities such as maintenance & repairing, training and on-farm demo activities)

Involved Regions (including observers)

Flanders, Weser–Ems, Central Macedonia, Western Macedonia, Galicia, Extremadura, South Ostrobothnia, Pays De la Loire, Bretagne, Toscana, Marche, Umbria, Veneto, Emilia-Romagna, Friuli Venezia-Giulia, PA Bolzano, Basilicata, North East Romania, East Central Sweden, Northern Netherlands, Gelderland, Noord Holland, Zuid Holland, North-Brabant, Limburg, Norther Ireland, Centro, Eastern Slovenia
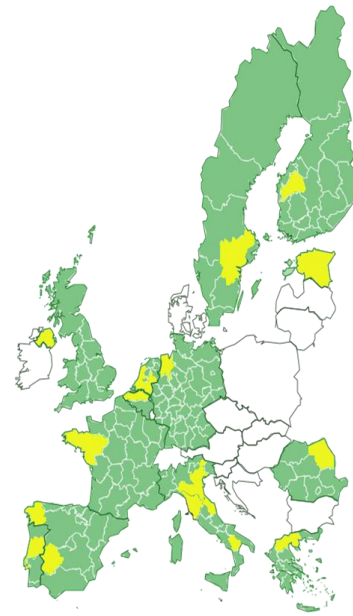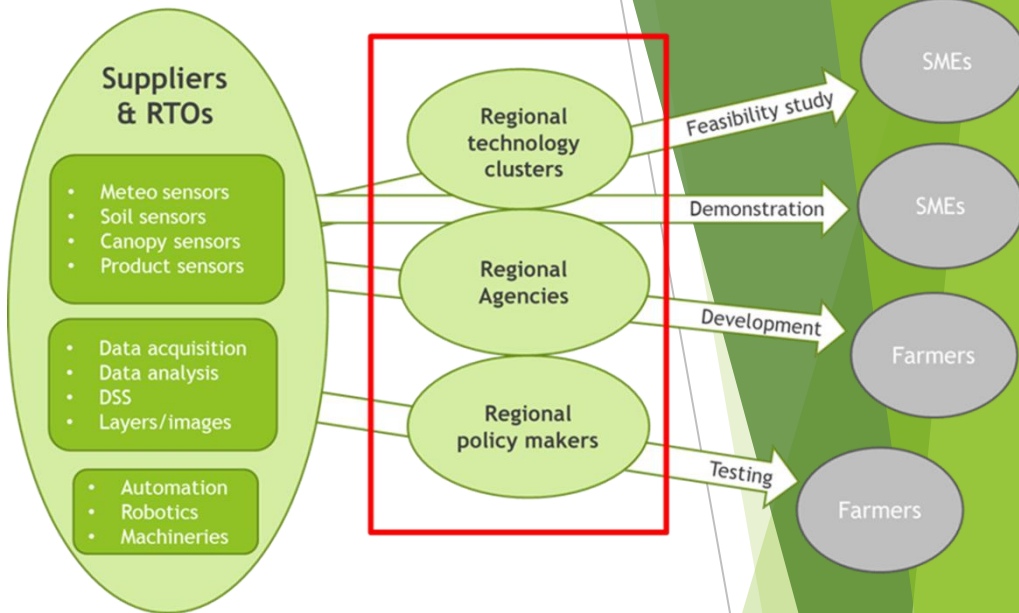
and Countries
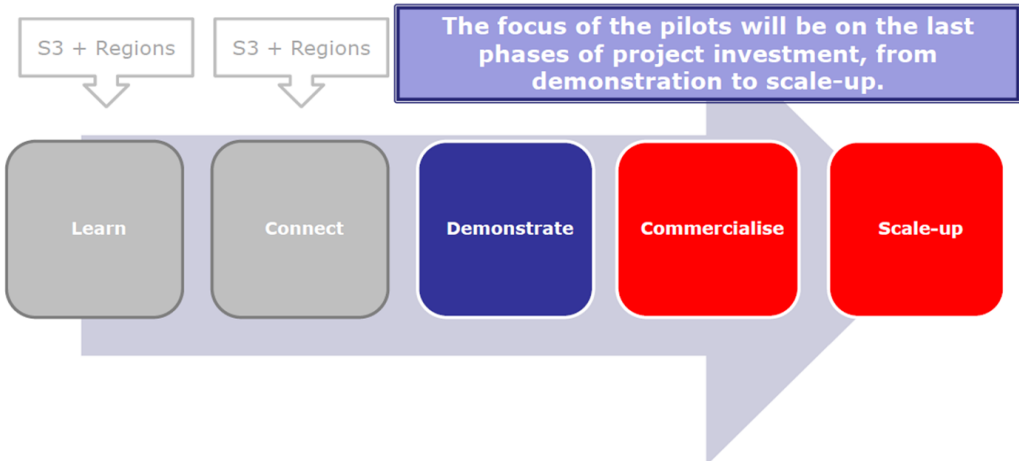
Luxembourg, Norway, Estonia and Slovenia

Objectives

- Improving projects impact
- Reducing gaps in funding and/or knowledge
- Allowing a better management and better marketing of new technologies
- Enabling farmers to use/master technologies

3. Activities

A place for **Regions and actors** of their **Innovation Ecosystems** to share, promote and connect

Suppliers & RTOs
- Meteo sensors
- Soil sensors
- Canopy sensors
- Product sensors

- Data acquisition
- Data analysis
- DSS
- Layers/images

- Automation
- Robotics
- Machineries

Regional technology clusters — Feasibility study → SMEs

Regional Agencies — Demonstration → SMEs

Regional policy makers — Development → Farmers

Testing → Farmers

Pilot Projects: strategic interregional investment projects

S3 + Regions

S3 + Regions

The focus of the pilots will be on the last phases of project investment, from demonstration to scale-up.

Learn | Connect | Demonstrate | Commercialise | Scale-up

A place for **innovators** to expand, integrate and partnering **at EU level**

4. Interregional Projects

FreshFruit

Development of a new service for determining the quality of grape

Regional

Product delivery

Farmer

Demand for higher quality

International

Retailer

Implementation

Translation

International
Regional

Innovation intermediary

Deployment requirement

International

Determine the choice of technology to be implemented

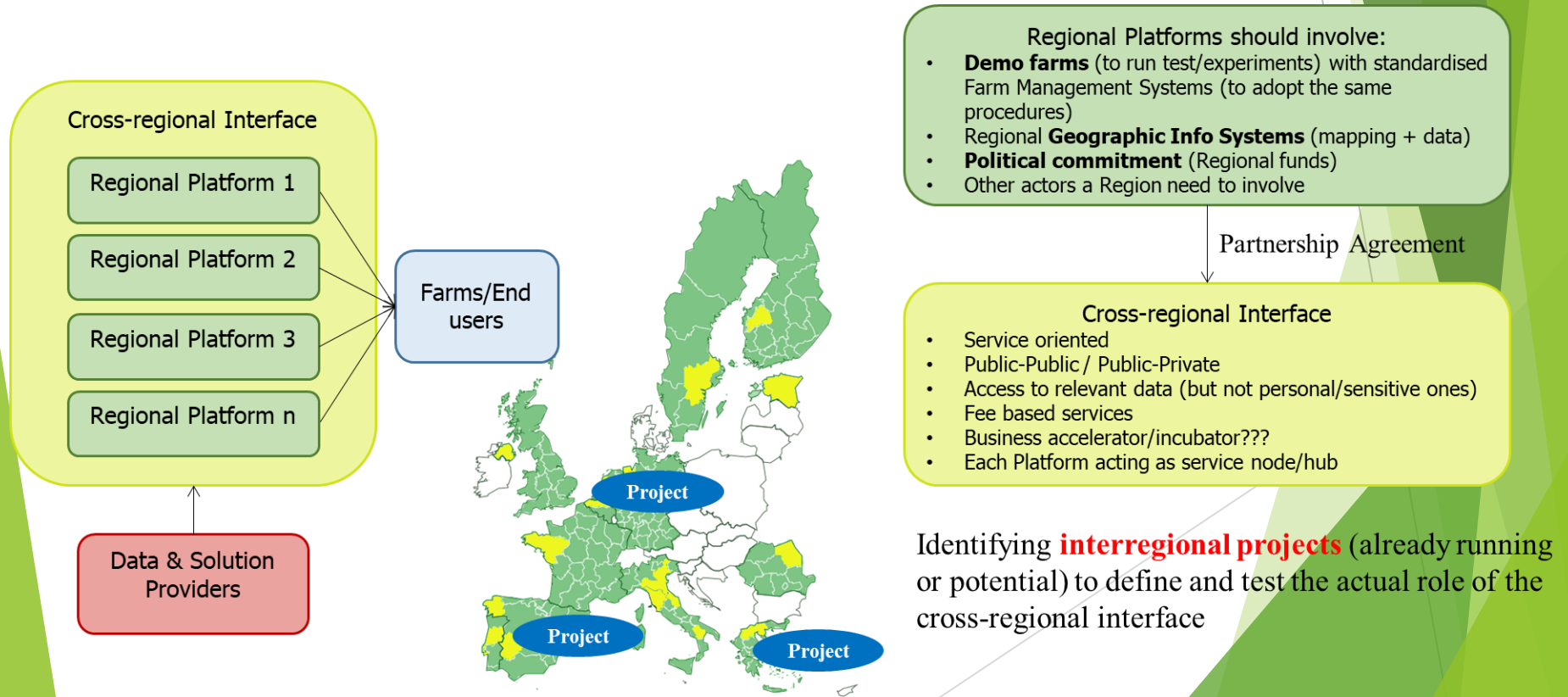Technology provider

Regional

Technology infrastructure
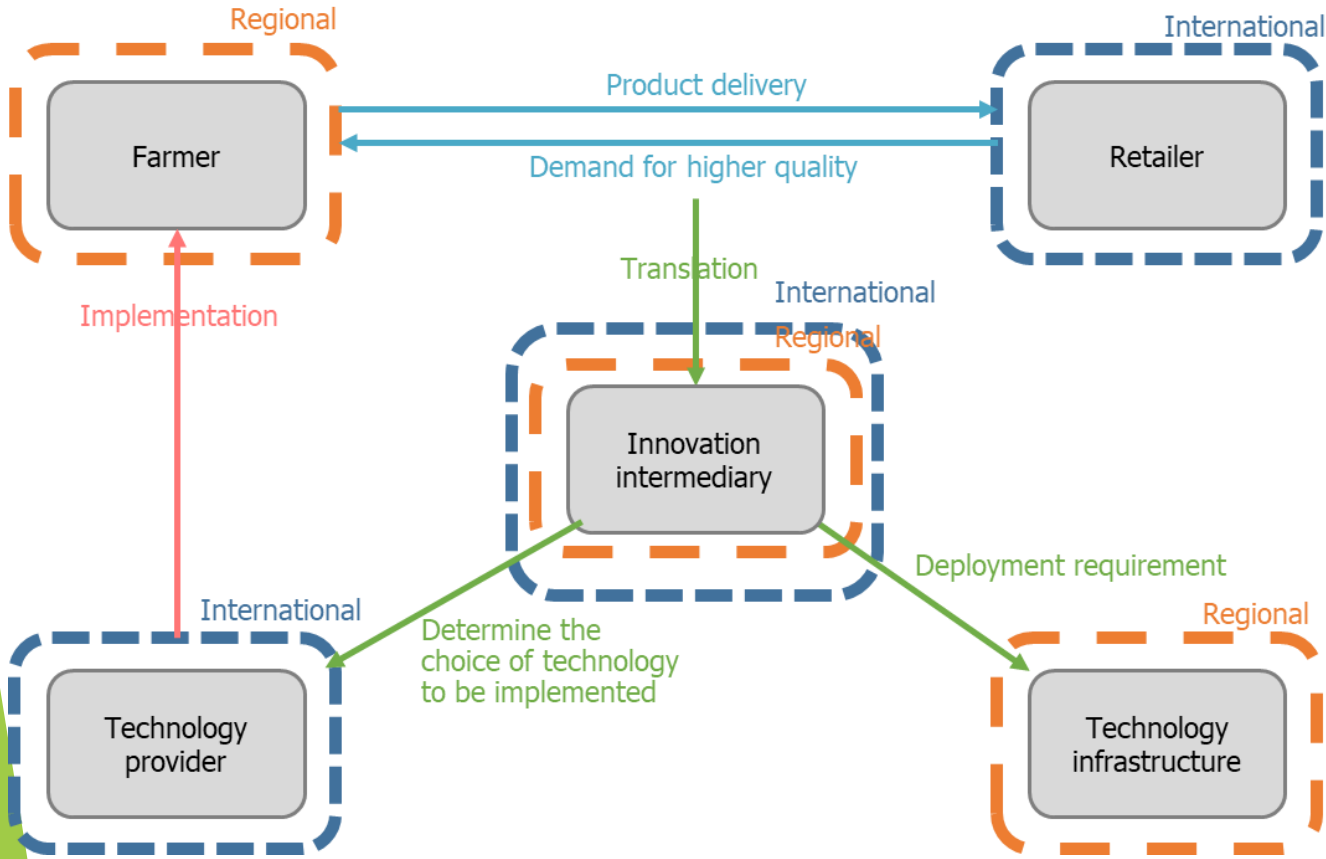
PODUR

Development of a new service for improving air quality in intensive poultry production systems

5. The proposed collaborative model

- Effectively connect Regional Innovation Ecosystems
- Providing timely and effective services to a variety of stakeholders (quadruple helix)
- Aligning with relevant European stakeholders and initiatives
- Maintaining a regional (decentralised) approach

Cross-regional Interface

Regional Platform 1

Regional Platform 2

Regional Platform 3

Regional Platform n

Farms/End users

Data & Solution Providers

Regional Platforms should involve:
- **Demo farms** (to run test/experiments) with standardised Farm Management Systems (to adopt the same procedures)
- Regional **Geographic Info Systems** (mapping + data)
- **Political commitment** (Regional funds)
- Other actors a Region need to involve

Partnership Agreement

Cross-regional Interface
- Service oriented
- Public-Public / Public-Private
- Access to relevant data (but not personal/sensitive ones)
- Fee based services
- Business accelerator/incubator???
- Each Platform acting as service node/hub

Project

Project

Project

Identifying **interregional projects** (already running or potential) to define and test the actual role of the cross-regional interface

6. Benefits

► Increase the awareness of regional actors in the agrifood sectors (particularly SMEs and Farmers) of existing innovations and their potential

► Answer the demand for more dynamic interconnections at European level (Knowledge transfer accros borders), particularly from RTOs and Innovation brokers

► Providing a clear «reward» to Public Administrations when engaging in interregional collaborations

► Avoiding Many R&I projects at local scale are doing similar (if not exact same) things.

► Valorization of the role of Regional «Innovation intermediaries» and of demonstration activities in actual productive systems (DEMO Farms)

► Facilitate synergies among different funding tools (EU, National, Regional)

Thank you for your attention

https://s3platform.jrc.ec.europa.eu/high-tech-farming

Regione Toscana
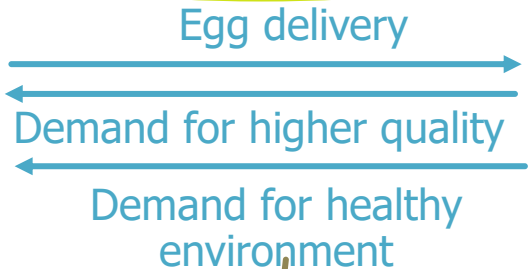
SMART SPECIALISATION PLATFORM

3. Activities
The PODUR case in East Netherlands

Increase of €0.007 per egg
X a total of 10 billion eggs
per year= **€70 million**

Farmers in East Netherlands

Egg delivery

Demand for higher quality

Retailer

Demand for healthy environment

Government

Poultry farmer: 25% risk of lung problems (compared to ~4%)

Implementation

Determine the choice of technology to be implemented

Translation

Poultry Expertise Centre

Determine requirement

Producers of fine dust reducing systems:
- FreshLightAgri
- Serutech
- StaticAir
- SmitsAgro

~€6 million with 25% of poultry producers (€0,5 investment cost per hen)

Producers of monitoring equipment:
- Stalmeesters (NL)
- Faromatics (ES)
- Copeeks (FR)