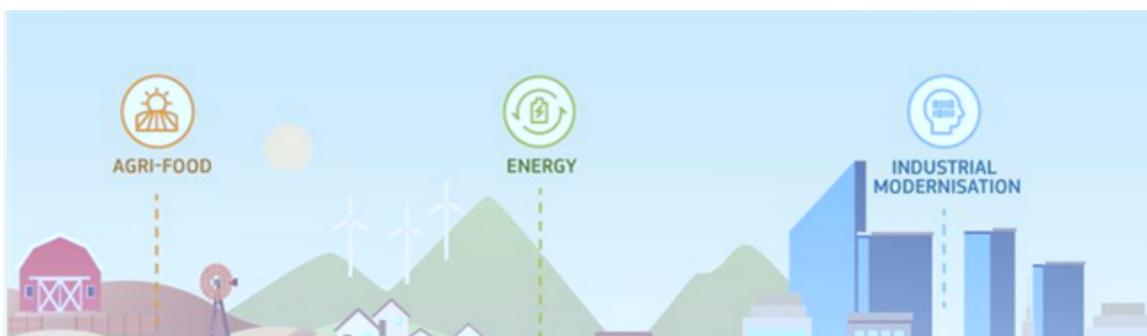


Thematic Smart Specialisation Platforms Monitoring Progress Report

Fields marked with * are mandatory.



Thematic Smart Specialisation Partnership Monitoring Progress Report

This report is presented to the relevant Working/Steering Committee.

The report is updated every six months.

Confidentiality:

The management report (section I) and progress report (section II) will be made available to the public via your Partnership's web page.

The part on self-assessment is confidential.

Based on the monitoring results, the European Commission will decide on the following term's support.

* Reporting period

January - June 2020

* Please select the name of your partnership

Smart sensors for agri-food

*** Start date of your partnership**

April '17

Partnership's webpage

Under construction - in the meantime: <https://s3platform.jrc.ec.europa.eu/smart-electronic-systems>

I. Management report

*** Please provide the executive summary and the objectives of your partnership**

The aim of our Thematic Smart Specialisation Partnership is to set-up a platform and supportive business ecosystem between agrifood clusters and clusters representing technology and/or digital solution providers, relevant RTOs and other stakeholders, to lower the barriers for agrifood companies to access and implement the newest smart sensor systems, make them acquainted with and train them in data management and mining, etc. and thus facilitate the Industry 4.0 transition of the agrifood industry. Making the leap towards Industry 4.0 is the final step of a larger strategy and trajectory involving all aspects linked to the digitization of the agrifood industry. The continuous collaboration between the clusters and RTOs will create a trust zone between the involved sectors, companies and also regions. Agrifood companies have specific requirements for these technologies and also expect the machine producers to integrate these sensors in their production lines. By creating this European smart sensor systems agrifood platform, the involved stakeholders will get a better understanding of each other's capabilities/capacities and specific requirements for these technologies.

As backbone of our strategy we will set-up a network of shared, open access living labs, where smart sensor systems, related ICT solutions and other technologies can be demonstrated, tested and where related training sessions and workshops can be organised. These living labs provide a 'safe' environment for agrifood companies to get a first experience with these technologies. Starting from the specific needs and challenges of the agrifood SMEs, it is our strong believe that the living labs offer the ideal environment to get introduced to new technologies and experience firsthand the potential, opportunities and added value they have in store for specific applications.

*** Please provide the list of leading regions**

Flanders (BE), BE2
Wallonia (BE), BE3

*** Please provide the list of participating regions.**

*If possible, please follow this format: "Name of the region in English (Country abbreviation), NUTS code".
e.g.: Lapland (FI), FI1D7*

Asturias (ES), ES12
Attica (EL), EL3 - haven't signed the Partnership Agreement yet
Auvergne Rhône-Alpes (FR), FR7
Brittany (FR), FR5
Central Denmark (DK), DK04 - haven't signed the Partnership Agreement yet
Galicia (ES), ES11
Central Transdanubian Region (HU), HU21
Navarre (ES), ES22
North Brabant (NL), NL41
North-Rhine Westphalia (DE), DEA
Slovenia (SI), SI0
South Ostrobothnia (FIN), 194

Please provide the list of interested regions or other entities (other than national /regional authorities)

Austria (AT), not decided yet which region will join
Lombardia (IT), ITC4

Please provide an overview of the **working areas** of your partnership

	Working area	Region in charge	Involved regions	Other actors
1	Working group on Communication	North-Rhine Westphalia (DE) - Food Processing Initiative	Auvergne Rhône-Alpes (FR) - Innov'Alliance; Brittany (FR) - BDI and Photonics Bretagne; Galicia (ES) - Clusaga; Central Transdanubian Region (HU) - Innoskart; Slovenia (SI) - CCIS; South Ostrobothnia (FIN) - SeAMK; Flanders (BE) - Flanders' FOOD	
2	Working group on Project Generation	North-Rhine Westphalia (DE) - TH OWL	Asturias (ES) - ASINCAR; Auvergne Rhône-Alpes (FR) - CIMES and Innov'Alliance; Brittany (FR) - BDI and Photonics Bretagne; Navarre (ES) - AIN; Central Transdanubian Region (HU) - Innoskart; Galicia (ES) - ITG; Wallonia (BE) - Wagralim; Flanders (BE) - Flanders' FOOD	

3	Working group on Technology Intelligence	Flanders (BE) - DSP Valley	<p>Asturias (ES) - ASINCAR; Brittany (FR) - BDI and Photonics Bretagne; Auvergne Rhône-Alpes (FR) - CIMES and Innov'Alliance; Flanders (BE) - Flanders Make; North-Rhine Westphalia (DE) - Food Processing Initiative; Central Transdanubian Region (HU) - Innoskirt and CTRIA; South Ostrobothnia (FIN) - SeAMK; Navarre (ES) - AIN; Galicia (ES) - Clusaga</p>	
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Please provide information regarding past meetings, workshops and dissemination activities (six months prior to filling out the survey)

	Event	Date	Place	Any other information
1	Final event i-FAST (regional project)	14/01/'20	Affligem (Flanders)	Poster session and networking foresee where we presented our TSSP Smart Sensors 4 Agri-food
2	1st Steering Committee meeting of our TSSP Smart Sensors 4 Agri-food	21/02/'20	Gijon (Asturias)	This first meeting was organised alongside meetings of 2 running projects (Consensys and S3FOOD)
3	Meetings Working Group on Communication	16/04/'20, 13/05/'20 and 29/05/'20	Online	Develop the communication strategy and communication tools / channels
4	1st Board meeting of our TSSP 'Smart Sensors 4 Agri-food'	14/05/'20	Online	
5	2nd Steering Committee meeting of our TSSP Smart Sensors 4 Agri-food	09/06/'20	Online	Webinar organised by Flanders' FOOD presenting, among other things, the TSSP Smart Sensors 4 Agri-food
6	Meeting Working Group on Project Generation	22/04/'20	Online	

7	Meetings Working Group on Technology Intelligence	8/04/20, 8/06/20, 7/07/20 and 2/09/20	Online	<p>S3 HTF Partnership governance, possible models</p> <ul style="list-style-type: none"> The model of S3 Partnership on Smart Electronics <p>Veerle Rijckaert, Flanders' FOOD</p>
8	10th PIC week	22/06/20	Online	<p>Presentation of the S3 Smart Sensors 4 Agri Food partnership by Veerle RIJCKAERT</p>
9	Workshop	13/02/19	Santiago de Compostela (Spain)	<p>Presentation of the SS4AF as an instrument for support for the advancement of Industry 4.0 in the food sector. Approx. 40 participants from industry, RTOs and regional authorities and innovation agencies</p>
10	<p>Meetings with representatives of Siemens Osakeyhtiö, Komelos Ltd., Forsfood Ltd., Evvia Health Ltd., and Domertor Ltd., and presented the goals of the Smart sensors network.</p> <p>We have managed to meet representatives of Siemens Osakeyhtiö, Komelos Ltd., Forsfood Ltd., Evvia Health Ltd., and Domertor Ltd.</p>	June '20	South Ostrobothnia (Finland)	<p>Presented the goals of the SS4AF Partnership</p>

Please provide information regarding planned future meetings, workshops and dissemination activities

	Event	Date	Place	Any other information
1	Data Driven Agrifood Future	26/10/'20	's-Hertogenbosch (The Netherlands)	
2	Next Steering Committee meeting of our TSSP	TBD	TBD	
3	Board meetings of our TSSP	TBD	TBD	
4	Working Group meetings of our TSSP	TBD	TBD	
5	Info session to inform the members of Clusaga (108 members) on the progress and achievements of SS4AF will take place at the Clusaga General Assembly	24/09/'20	Santiago de Compostela (Spain)	
6	Meetings with Living Lab actors	Fall '20	South Ostrobothnia (Finland)	Assess and map their needs
7	Presentation of SS4AF in the annual member meeting	November '20	Ostwestfalen-Lippe (Germany)	
8	Presentation in a dedicated workshop of SmartFoodTechnologyOWL	October '20	Ostwestfalen-Lippe (Germany)	

9	Presentation during the regional event "DigitalerZukunft@OWL"	April '21	Ostwestfalen-Lippe (Germany)	SS4AF will be presented on the website and during the event at the booth of FPI.
10	Meeting of the Innovation Committee of CLUSAGA, which involved different companies of the Galician food and ICT sectors	Sept - Oct '20	Galicia (Spain)	

II. Progress report

Innovative results

Please describe innovative results and achievements that could be attributed to the partnership (specific examples of results vs. objectives)

With our TSSP we have elaborated and signed a Partnership Agreement to structure our Partnership and guarantee its long-term sustainability. The following Annexes form an integral part of this agreement:

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

Next to this important Partnership Agreement we have developed the Operational Handbook for the network of living labs. This network of living labs is considered as the backbone for the 'Smart Sensors 4 Agri-food' (SS4AF) Partnership.

In the framework of our S3FOOD project we also elaborated a mapping tool, which can be consulted on the website of S3FOOD (<https://s3food.eu/>). Via this tool the agri-food companies can consult the capabilities, technology and digital solution providers, relevant living labs and RTOs in the different involved regions of our TSSP. Via this tool the different Industry 4.0 stakeholders can showcase their services, equipment, etc. and this will facilitate the matchmaking with the agri-food SMEs.

Once this project will be finished we will transfer this mapping tool to the website of our TSSP (this website is under construction).

Also linked to S3FOOD we elaborated a value chain mapping to determine whether the 'Smart Sensors 4 Agri-food' Partnership misses important players / regions and to get a better overview on the overall structure of the ecosystem revolving around the digitization of the agrifood industry.

Tangible short- and medium-term socio-economic impacts achieved or expected (specific examples)

As described in the previous answer we have done a detailed mapping of the needs of the agri-food industry in the involved regions and the opportunities the technology and digital solution providers can give. Matching these needs and potential solutions, but also study visits, matchmaking events and ideation sessions, etc. will give us the opportunity to bring together offer and demand and in the end come to new investments and innovation projects.

Also in the framework of the INNOSUP S3FOOD 2 open calls are elaborated and launched that will give SMEs the opportunity to apply for vouchers (up to € 60.000 per SME) to do feasibility studies (exploration voucher), validate promising technologies (validation vouchers) and implement technologies (application voucher). in relation to and to tackle their industry 4.0 challenges. The first voucher call is closed and from the over 100 applications, 19 innovative projects were selected, awarding 1 mio € to the involved SMEs. These vouchers projects will support the SMEs in their digitization process.

Numerous SMEs already attended study visits, ideation sessions, regional brainstorm sessions, etc. that we have organised, showing us their concrete interest in our Partnership and projects.

Inter-regional and inter-partnership collaborative results

Additional results obtained from working with other partnerships under the thematic S3 Platforms (specific examples)

The TSSP Nutritional Ingredients is also setting up a Governance Structure and will start from what we have elaborated in the framework of 'Smart Sensors 4 Agri-food'.

Flanders' FOOD gave a presentation during the technical meeting of the High Tech Farming TSSP, providing insights and information with regard to the governance structure we've elaborated.

Several other TSSPs (Agri-food and Industrial Modernization) are involved in the Advisory Board of Connsensys, providing us relevant feedback on the further development of our Partnership.

Evaluation of the involvement of relevant business sector (clusters, SMEs, business associations, chambers of commerce, Digital Innovation Hubs (DIHs), etcetera) in the Partnership activities (specific examples)

Our Partnership is based on a network of cluster organizations, supported by their respective regional authorities. These cluster organizations, linked universities and RTOs are active in the agrifood sector or in the technology and/or digital solution providers sector. They represent and support a broad network of companies, both large companies and SMEs. In this perspective it can be stated that the relevant business sectors are very much involved.

Also, several of the Associated Organizations of our Partnership are business associations, chambers of commerce, etc.

Several partners are registered and fully operational Digital Innovation Hubs. Also, several partners are involved in the national selection procedure to become a European Digital Innovation Hub.

Evaluation of whether the level of inter-regional cooperation is sufficient to potentially provide practical and relevant socio-economic impacts (specific examples)

The Connsensys project and the INNOSUP S3FOOD really kick-started the interregional cooperation. In the framework of Connsensys we have:

- Elaborated and signed a Partnership Agreement, including the Governance Structure of our TSSP, our Strategy and Implementation Roadmap. This Partnership Agreement supports the long-term sustainability of our Partnership, ensures that the work is divided between the different partners and structures our Partnership
- We have set-up a network of living labs and developed the operational handbook
- We developed a Technology Catalogue linking the challenges of the agri-food industry to the potential solutions of the technology providers
- Are developing demo-cases and generic business models

In S3FOOD concrete cross-sectoral and interregional innovation projects between companies are facilitated and set-up --> via the voucher calls (2 calls in the course of the 3 year project).

In the framework of the Governance Structure we have initiated 3 Working Groups to further structure our Partnership and support the roll-out of our strategy and roadmap

- WG Communication: communication strategy - corporate identity, website and other communication tools
- WG Project Generation: continuous screening of calls and tenders and develop proposals with (part of) the Partnership in calls/topics that are aligned with our strategy and roadmap
- WG Technology Intelligence: specifically follow the activities linked to the Digital Europe Program

New activities

Involvement of regions from EU13 Member States in the Partnership, in particular with respect to scoping, mapping and/or matchmaking. In addition, justification should be provided if no EU13 regions are involved

Közép-Dunántúl (Hungary) is one of the member regions in our partnership. They were actively involved in the working-out of the scoping note and the related mapping. In the COSME project Connsensys they are Work Package leader and had an active role in the preliminary discussions and the writing of the dossier. They were also highly involved in the elaboration of the S3FOOD project and are a key partner in the project (member of the Project Management Team).

Slovenia (whole country) is also a member of our Partnership. They actively participate in the collection of data and input (via the survey and regional consultation rounds), although they are not involved in Connsensys nor S3FOOD and thus don't receive funding for this. They give valuable contributions in the framework of the Steering Committee meetings and the established Working Groups.

Involvement of regions/countries from outside of EU28 Countries. (Number of participants from non-EU countries (specify their contribution))

Not at this point

Advancement and promotion of the Partnership through publications and other communication/outreach activities (number of outreach activities that resulted from the partnership)

February 2020, Gijón, Asturias (Spain):

- Study visit organized by ASINCAR in the framework of the S3FOOD project
- Match making event organized by ASINCAR in the framework of the S3FOOD project

EU info day organised by Flanders' FOOD (10/05/'20): among other things information was shared on the European activities of Flanders' FOOD. Also our TSSP 'Smart Sensors 4 Agri-food' was presented to the 35 attendants.

10th PIC meeting (22/06/'20): Presentation of the S3 Smart Sensors 4 Agrifood partnership by Veerle Rijckaert (Flanders' FOOD)

8th Technical Meeting of the TSSP 'High Tech Farming' (30/06/'20): a presentation was given about the Governance Structure of our TSSP for inspiration of the 'High Tech Farming' Partnership.

CCIS of Slovenia promoted the TSSP 'Smart Sensors 4 Agri-food' in various ways:

- Communicate and promote the Partnership in several ways: via mailings, meetings, website and LinkedIn. Main target groups were agrifood and ICT companies, Slovenian Government Office for Development and European Cohesion Policy and all other TSSPs in Slovenia (8).

In this period they published 1 article on the website (estimated reach of people is 50) and one post on their LinkedIn profile (250 people).

They had contacts in the framework of the Living Labs survey with different stakeholders in Slovenia (digital innovation HUBS, Technology park Ljubljana, TSSP Factories of the Future and others).

News:

- <https://s3food.eu/no-digital-challenge-will-be-too-big-for-europes-newest-network/>
- <https://www.clustercollaboration.eu/node/12818/news>

Clusaga (Spain):

The SS4AF was included in the latest leaflet about Clusaga produced in June 2020 (200 prints)

News at Clusaga website in April 2020: <https://www.clusteralimentariodegalicia.org/sin-categorizar/clusaga-participa-en-la-red-europea-smart-sensors-4-agri-food-cuyo-objetivo-es-impulsar-la-transformacion-digital-del-sector.html>

Posts on LinkedIn and Twitter about SS4AF

SeAMK (Finland):

Inform and discuss SS4AF network actions with the staff of West Finland European Office (WFEO).

Food Processing Initiative (Germany):

Next to our website, we have informed the readers of our newsletter (2500+) in the May edition with a link to this news: <http://www.foodprocessing.de/blog/2020/05/intelligente-spezialisierung-smart-sensors-4-agri-food/>

ITG (Spain):

May 2020: ITG issued a press-release to promote the Partnership and the linked projects “Connsensys” and “S3FOOD”, that was published on its website and social network profiles (LinkedIn and Twitter) and on regional medias:

- <https://itg.es/impulsamos-red-smart-sensors-for-agri-food-18-cluster-14-regiones-europeas/>
- https://www.linkedin.com/posts/itg-technology-center_impulsamos-la-red-smart-sensors-for-agri-food-activity-6669179795705749504-waP1
- <https://twitter.com/ITGGalicia/status/1263413202668466177?s=20>
- <https://www.economiaengalicia.com/articulo/economia/itg-participa-alianza-impulsar-transformacion-digital-sector-agroalimentario/20200519125656014106.html>
- <https://www.lavozdegalicia.es/noticia/somosagro/2020/05/28/sensores-inteligencia-artificial-industria-agroalimentaria-gallega/00031590676685667448223.htm>
- https://twitter.com/ATIGA_/status/1263038851666370561?s=20

Wagralim (Belgium):

6 monthly newsletters

Blog posts:

- Digital transformation: trigger for growth
- Foodtech ofrthe innovation process

Innoskart (Hungary):

- Partnership was promoted in Hungary in order to find the 2nd Hungarian partner, with success
- Partnership was promoted as good example when Innoskart started to build a consortium for the national eDIH proposal which will be the Digital Transformation eDIH (planned name, tbc)

Activities and projects with partnerships working under other S3 Thematic Platforms (AgriFood, Energy and Industrial Modernisation)

In relation to our COSME project Connsensys we established an Advisory Board. The coordinators of the following TSSPs are member of our Advisory Board:

- High Tech Farming
- Traceability and Big Data
- Photonics (Industrial Modernisation)
- Efficient and Sustainable Manufacturing (Industrial Modernisation)

Flanders' FOOD frequently interacts with Fabio Boscaleri from High Tech Farming, to exchange ideas, keep each other up-to-date and look for potential ways to collaborate.

Your Partnership and the UN 2030 Sustainable Development Goals (SDGs)

The EU has a strong position when it comes to sustainable development and is also fully committed to be a frontrunner in implementing the UN's 2030 Agenda, together with its member countries and regions. Many interregional partnerships under the thematic S3 Platforms contribute strongly to the attainment of these 17 goals.

Please indicate to which Sustainable Development Goals and to what extent your thematic Partnership contributes?

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	Not applicable
Goal 1. End poverty in all its forms everywhere	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 2. End hunger, achieve food security and improved nutrition & promote sustainable agriculture	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 3. Ensure healthy lives & promote well-being for all at all ages	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 5. Achieve gender equality & empower all women and girls	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 6. Ensure availability and sustainable management of water and sanitation for all	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 7. Ensure access to affordable, reliable,						

sustainable and modern energy for all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment & decent work for all	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialisation & foster innovation	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 10. Reduce inequality within and among countries	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 11. Make cities & human settlements inclusive, safe, resilient and sustainable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Goal 12. Ensure sustainable consumption & production patterns	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 13. Take urgent action to combat climate change and its impacts	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 14. Conserve and sustainably use the oceans, seas & marine resources for sustainable development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, halt and reverse land degradation and halt biodiversity loss	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Goal 16. Promote peaceful & inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Goal 17. Strengthen the means of implementation and	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

revitalise the Global Partnership for Sustainable Development						
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