

# Smart Specialisation Platform for Industrial Modernisation

## Thematic S3 Partnership

*Photonics*

**Start Date (September 2017)**

### **MONITORING PROGRESS REPORT**

***Reporting Period: from January 2019 to June 2019***

This Report is presented to the relevant Working/Steering Committee.  
It contains three parts:

- I. Management Report prepared by the Lead Region(s)***
- II. Progress Report prepared by the Lead Region(s)***

The report is updated every six months.

Confidentiality: this document (part I) will be made available to the public via your Partnership's web page except for chapter *II.E. Self evaluation*.

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

**Executive summary (max. 250 words):**

*Formed in September 2017, the European Photonics Alliance is an active network of European Digital Innovation Hubs and clusters. Each member has deep domain knowledge of light-based technologies, often termed “photonics”. This is one of the 6 key-enabling technologies defined by the European Commission in Horizon2020. The regions listed here have identified Photonics as one of their Research and Innovation Strategies for Smart Specialisation.*

***Photonics Important to Other Industries***

*Photonics is starting to have a knock-on effect in different sectors of society including healthcare (needle-free testing for diseases), secure 5G communications, self-driving vehicles, food safety tests for pathogens as well as environment monitoring on earth and from space. It’s becoming clearer that light-based technologies are the key to building smaller, cheaper, faster devices to solve a lot of these grand societal challenges.*

*Because of the complex nature of these (nano)technologies, Europe needs an inter-regional collaborative approach if it wants to scale up Photonics companies. The partners want to maintain their lead in the development of Photonic Integrated Chips. Scaling up to volume manufacture of chips and products are important for a financially, socially and environmentally sustainable industry.*

*The goal of the Alliance is to amplify existing inter-regional initiatives and, when needed, kick-start new ones. Our focus is on building projects with inter-regional collaboration. Five members of the Alliance are also active partners in the EPRISE project which is organising successful outreach workshops on a local and national level..*

**I. Management Report prepared by the Thematic Platform/Lead Region(s)**

**I.A. Partnership Action Fact Sheet**

- **Partnership:** *Photonics*
- **Partnership's web-page:**
- **S3 Thematic Platform:** *Industrial Modernisation*
- **Objectives:** *Please enter your objectives...*
- **Lead Region(s):** *list of regions/countries leading this partnership*

<i>South Netherlands.</i>
<i>Please enter here...</i>
<i>Any other comments</i>

- **Official partner regions:** *list of regions/countries that have officially committed to follow this partnership and have been active in the last six months.*

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<i>Any other comments</i>		

- **Other regions:** *list of regions/countries that have expressed their interest in this partnership but have not signed a commitment letter).*

<i>Berlin(DE).</i>	<i>PACA (FR).</i>	<i>Styria(AU).</i>
<i>Bretagne (FR).</i>	<i>East Netherlands (NL).</i>	<i>Baden-Württemberg (DE)..</i>
<i>Lubelskie (PL)</i>	<i>Thüringen (DE).</i>	<i>Flanders (BE).</i>
<i>Mazowieckie (PL)</i>	<i>Brittany (FR)..</i>	<i>Catalonia (ES).</i>
<i>North Karelia (FI).</i>	<i>Dublin (IR0).</i>	<i>Cork Region (IR).</i>
<i>North-Rhine Westphalia (DE).</i>	<i>Stockholm area (SE).</i>	<i>Östergötlands (SE).</i>
<i>Any other comments</i>		

- **Intentions to join:** *list any regional/national authorities*  
*(Please list here all other regions that have expressed their interest to join the partnership)*

- **Other participants (other than national/regional authorities):**  
*(Please list here all other (non-region) participants (clusters, institutes, RTOs, etc.))*

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<i>Any other comments</i>		

<b>Representative of Lead Region 1:</b> <i>(name, institution, address, phone, e-mail)</i> Please enter here...	<b>Representative of Lead Region 2</b> <i>(if applicable): (name, institution, address, phone, e-mail)</i> Please enter here...
<b>European Commission Coordinator:</b> <i>(name, e-mail)</i> Please enter here...	Any other relevant information:  Please enter here...

**I.B. Thematic Working Areas (WA)**

• **Thematic Working Areas** (if any, please list of WAs, region(s) in charge of it, names and affiliations of involved regional/national authorities, and other actors)

Working Area	Region in Charge	Involved regions	Other actors
<i>I</i> Photonic Integrated circuits (PICs).	South Netherlands, East Netherlands, Berlin e	Attica, Bretagne, Stockholm, Thuringia	Other actors
Sensing, Measuring and Imaging.	PACA, Mazovia, North Karelia and Thuringia	Attica, Berlin, Bretagne, North Karelia, East Netherlands, Stockholms	Other actors
Optical Fibres for Industry.	BRETAGNE, MAZOVIA AND Lublin	Attica, East Netherlands, Stockholm, Thuringia	Other actors
Pilot Facility for Photonics-based Manufacturing.	North-Rhine Westphalia	Attica, Bretagne, North Karelia, East Netherlands, Stockholm, Thuringia	Other actors
Any other comments			

**I.C. Overview of past activities (past six months, the 1<sup>st</sup> half of 2019)**

**Past Meetings**

Title	Date	Place
Meeting to discuss mapping and pilot programs	16 October.	Berlin, Germany.
Please enter title here...	Please enter date here...	Please enter place here...
Please enter title here...	Please enter date here...	Please enter place here...
Any other comments		

**Past Workshops**

Title	Date	Place
Please enter title here...	Please enter date here...	Please enter place here...
Please enter title here...	Please enter date here...	Please enter place here...
Any other comments		

**Past Dissemination Activities**

Title	Date	Place
Please enter title here...	Please enter date here...	Please enter place here...
Please enter title here...	Please enter date here...	Please enter place here...

*Any other comments*

**I.C. Overview of future activities (the next 6 months – the 2<sup>nd</sup> half of 2019)****Future Meetings**

<i>Title</i>	<i>Date</i>	<i>Place</i>
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<i>Please enter title here...</i>	<i>Please enter date here...</i>	<i>Please enter place here...</i>
<i>Any other comments</i>		

**Future Workshops**

<i>Title</i>	<i>Date</i>	<i>Place</i>
<i>Please enter title here...</i>	<i>Please enter date here...</i>	<i>Please enter place here...</i>
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<i>Any other comments</i>		

**Future Dissemination Activities**

<i>Title</i>	<i>Date</i>	<i>Place</i>
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<i>Any other comments</i>		

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**II. Progress Report** prepared by the Lead Region(s) of the partnership, describing **results achieved during this period**, in no more than 3 pages (the report is “cumulative”). All items listed in Sections A, B, and C, below, must be addressed.

Additional documentation such as extended technical reports and/or proceedings of workshops may be provided separately as an annex to this report (and should be referenced in the report).

### **II.A. Innovative results**

- Innovative results and achievements that could be attributed to the Partnership. (*Specific examples of Results vs. Objectives*).

*We have created 2 pilot inter-regional projects*

- Tangible short- and medium-term socio-economic impacts achieved or expected. (*Specific examples*).

*Please enter here...*

### **II.B. Inter-regional and inter-partnership collaborative results**

- Additional results obtained from working *with other partnerships* under the thematic S3 Platforms. (*Specific examples*).

*Please enter here...*

- 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*)

*Please enter here...*

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

*Please enter here...*

### **II.C. 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.*

*Please enter here...*

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

*Please enter here...*

- Advancement and promotion of the Partnership through publications and other communication/outreach activities. (*Number of outreach activities that resulted from the Partnership. A complete list with references and web-links should be given in an annex*).

*Please enter here...*

- Activities and projects with partnerships working under other S3 Thematic Platforms (*Agri-Food, Energy and Industrial Modernisation*).

*Please enter here...*