

Smart Specialisation Platform for Industrial Modernisation

Thematic Partnership

*S3 Partnership for the regional co-development,
innovation and adoption of Personalised Medicine –
translational needs (S3P4PM)*

Start Date (30 May 2018)

MONITORING PROGRESS REPORT

Reporting Period: from June 2018 to December 2018

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

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

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

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

Executive summary (max. 250 words):

The development of personalised medicine (PM), stratified or precision medicine is an evolution that cannot be stopped anymore. PM is strongly technological driven and will induce a transformation of how health and well-being are approached and medicine is being implemented. The convergence of knowledge on what determines health and disease or how the process of ageing is determined, with digital technologies and access to data opens a huge potential to develop new applications to improve general health, wellbeing, and will make preventive medicine reality. The sensitivity of new diagnostics, access to omics data and the acknowledgement that early detection is often crucial, is blurring the boundaries between health and disease. Chronic diseases, often linked to changes in general life styles and increasing of the average age of the population are putting the healthcare systems under increasing pressure. The development of PM will not only support the increase of healthy life years, it will also secure the sustainability of our healthcare systems.

The partnership was established to realise the potential of personalised medicine. This partnership will be complementary to the thematic platform on Medical Technologies and will bring the agenda to implement personalised medicine to the next level.

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

I.A. Partnership Action Fact Sheet

- **Partnership:** *S3 Partnership for the regional co-development, innovation and adoption of Personalised Medicine – translational needs (S3P4PM)*
- **Partnership's web-page:** *http://s3platform.jrc.ec.europa.eu/personalised-medicine*
- **S3 Thematic Platform:** *Industrial Modernisation*
- **Objectives:** *Address translational needs to further PM across Europe and create added value and contribute to better health and wellbeing and the sustainability of health care systems*

- **Lead Region(s):** *list of regions/countries leading this partnership*

<i>Flanders (BE)</i>
<i>Limburg (NL)</i>
<i>East-Netherlands (NL)</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.*

<i>Slovenia</i>	<i>Please enter here...</i>	<i>Please enter here...</i>
<i>Oulu (FI)</i>	<i>Please enter here...</i>	<i>Please enter here...</i>

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

<i>Piemonte (IT)</i>	<i>Please enter here...</i>	<i>Please enter here...</i>
<i>Extremadura (ES)</i>	<i>Please enter here...</i>	<i>Please enter here...</i>
<i>Emilia-Romagna (IT)</i>	<i>Please enter here...</i>	<i>Please enter here...</i>

- **Intentions to join:** *list any regional/national authorities*
Lombardy (IT), Danish capital region (DK)

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

<i>Flanders.bio (BE)</i>	<i>Janssen Pharmaceutica (BE)</i>	<i>East Netherlands Development Agency (NL)</i>
<i>DSP-Valley (BE)</i>	<i>Maastricht University (NL)</i>	<i>SIS-EGIZ (SLO)</i>
<i>VIB (BE)</i>	<i>Cluster Limburg Economy and Innovation (NL)</i>	<i>EIT Health</i>
<i>VITO (BE)</i>	<i>Brightlands Maastricht Health Campus (NL)</i>	

<p>Representative of Lead Region 1: <i>(name, institution, address, phone, e-mail)</i> <i>Kathleen D'Hondt</i> <i>Flemish Government – Department Economy, Science and Innovation</i></p>	<p>Representative of Lead Region 2 <i>(if applicable): (name, institution, address, phone, e-mail)</i> <i>Dirk Plees</i> <i>Coordinator internationalisation</i> <i>cluster Economy and Innovation</i></p>
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<p>European Commission Coordinator: <i>(name, e-mail)</i> <i>Fatime Barbara Hegyi</i></p>	<p><i>Any other relevant information:</i></p> <p><i>European Commission</i> <i>Directorate-General for Regional and Urban Policy</i> <i>Unit G1 - Smart and Sustainable Growth</i></p> <p><i>BU-1 04/189</i> <i>Avenue de Beaulieu, 1</i> <i>B-1049 Brussels/Belgium</i> <i>Public entrance: Avenue de Beaulieu, 5</i></p> <p><i>Phone: +32.(0)2.29-58271</i></p>

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)

<i>Working Area</i>	<i>Region in Charge</i>	<i>Involved regions</i>	<i>Other actors</i>
<i>Personal Data Management Platform</i>	<i>Flanders</i>	<i>Limburg, East-NL</i>	<i>EIT Health</i>
<i>Cell and gen hub</i>	<i>Flanders</i>	<i>Limburg, East-NL</i>	<i>Other actors</i>
<i>Healthcare of the 21st century</i>	<i>East-NL</i>	<i>Flanders</i>	<i>Other actors</i>
<i>E-infrastructure for neurohealth</i>	<i>Limburg</i>	<i>East-NL, Flanders</i>	<i>Other actors</i>
<i>Jobs of the future: Limburg, in charge, interest from all other regions</i>			

I.C. Overview of past activities (past six months, the 2nd half of 2018)**Past Meetings**

<i>Title</i>	<i>Date</i>	<i>Place</i>
<i>2nd partnership meeting</i>	<i>5th July 2018</i>	<i>Brussels</i>
<i>3rd partnership meeting</i>	<i>1 October 2018</i>	<i>Brussels</i>

Past Workshops

<i>Title</i>	<i>Date</i>	<i>Place</i>
<i>S3P4PM webconference</i>	<i>9 November 2018</i>	<i>Web</i>
<i>EWRC</i>	<i>24 October 2018</i>	<i>Brussels</i>

Past Dissemination Activities

<i>Title</i>	<i>Date</i>	<i>Place</i>
<i>Introducing S3P4PM</i>	<i>October - week of Regions on Reconfirm meeting</i>	<i>Brussels</i>
<i>ERRIN Health Partnering event</i>	<i>19 November 2018</i>	<i>Brussels</i>
<i>Steering group meeting IM partnerships - 27 November 2018 - Bilbao</i>		

I.C. Overview of future activities (the next 6 months – the 1st half of 2019)**Future Meetings**

<i>Title</i>	<i>Date</i>	<i>Place</i>
<i>Results from mapping exercise</i>	<i>Q1 2019</i>	<i>Brussels</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>

Future Dissemination Activities

<i>Title</i>	<i>Date</i>	<i>Place</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)

Too early to have results at this point. Partnership in the process of defining a common understanding of challenges & opportunities conferred through potential investment protocols. Scoping paper set, mapping underway.

Common focus areas are confirmed and are the basis of the scoping paper and mapping effort.

> Cell and gen hub

> Preventive medicine

> Personal Data Management Platform

> e-infrastructure for neurohealth

> Skills and training needs

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

Not yet realistic to have tangible socio-economic impacts expected yet, other than the broad lines in the expression of interest, i.e. contribute to better health and wellbeing, sustainability of healthcare systems, preventive medicine.

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

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

Contacts are made with the S3 partnership on medical technologies and on Sport to identify complementarities and avoid overlap of the initiatives. ...

- Evaluation of the involvement of relevant business sector (clusters, SMEs, business associations, chambers of commerce, etcetera) in the Partnership activities. (Specific examples)

The regional delegations represent different actors, including 2 clusterorganisations (Flanders.bio, DSPValley), a regional development agency (Oost NL) an open innovation community (Brightlands Maastricht Health Campus, a joint triple helix initiative and Slovenian Innovation hub (SIS), an industry ambassador (Janssen Pharmaceutica), SMEs interested (Anthleron). Since October also EIT Health is a partner in S3P4PM.

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

We are very satisfied with the interregional interactions, indicating a high potential for succesfull cooperation in the future. We identified common focus areas to develop into collaborative projects. Next to Slovenia, the partnership is broadened with EIT Health, which represents stakeholders of academia and industry in the broad medical area. At this moment, however, it is too early to have socio-economic impact.

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.*

Slovenia joined the partnership in July.

EIT Health, which has EIT Innostars under its umbrella, joined the partnership in October. EIT Innostars has as a main goal to reach out to EU-13 regions. In addition, in August a CSA on personalised medicine (Securing Adoption of Personalised Health in Regions - SAPHIRE) with EIT Innostars as partner was positively evaluated and should start at the latest on 1 January 2019. The CSA has as one of its objectives to reach out to 'remote and sparsely' populated regions, which we interpreted as the regions with less innovation power and includes EU-13 regions. As Flanders is coordinating SAPHIRE, we think that we can align the S3 strategy and the CSA goals.

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

Other regions may express interest when the partnership will be introduced to a broader audience at a later stage. Depending on possible alignment of priorities more regions/ actors can join.

- 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 in progress)*

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

first contacts have been made with S3 Sport and S3 Medtech under Industrial Modernisation. We also have contact with S3 Food under Agri-Food

II.D. 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 Agenda¹, 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?

Your Partnership and Sustainable Development Goals

Goals to which your partnership (can) contribute:	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Not applicable
Goal 1. End poverty in all its forms everywhere	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Goal 2. End hunger , achieve food security and improved nutrition & promote sustainable agriculture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Goal 3. Ensure healthy lives & promote well-being for all at all ages	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 5. Achieve gender equality & empower all women and girls	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 6. Ensure availability and sustainable management of water and sanitation for all	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Goal 8. Promote sustained, inclusive and sustainable economic growth , full and productive employment & decent work for all	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 9. Build resilient infrastructure , promote inclusive and sustainable industrialisation & foster innovation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 10. Reduce inequality within and among countries	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 11. Make cities & human settlements inclusive, safe, resilient and sustainable	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 12. Ensure sustainable consumption & production patterns	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 13. Take urgent action to combat climate change and its impacts	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 14. Conserve and sustainably use the oceans, seas & marine resources for sustainable development	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goal 17. Strengthen the means of implementation and revitalise the Global Partnership for Sustainable Development	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

¹ The 2030 Agenda for Sustainable Development and its 17 Sustainable Development Goals (SDGs), adopted by the United Nations (UN) in September 2015, gave a new impetus to efforts to achieve sustainable development.