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Personalised Medicine

SAPHIRE Workpackage 2  
Deliverable D2.2

Report on regional PM profiles

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Annex: PM profiles per region

## 1 Introduction

The SAPHIRE consortium supports regions in Europe - including remote, sparsely populated and less advanced regions - to structure the implementation and adoption of personalised medicine and personalised health (PM/PH) in regional healthcare systems, involving all stakeholders across the entire value chain. SAPHIRE will initiate a platform by creating a network of regions and their ecosystems. Furthermore, SAPHIRE will stimulate the development and deployment of (cross-border) interregional collaboration projects. Recommendations will be provided on funding and investments through the relevant financial instruments available.

The SAPHIRE project consists of the following work packages:

- WP1 – Coordination and Management
- WP2 – Inventory and Platform building
- WP3 – Strategy and Convergence
- WP4 – Activation and Acceleration
- WP5 – Dissemination and Exploitation
- WP6 – Ethics requirements

WP2 includes four deliverables:

- D2.1 – Information gathering methodology
- D2.2 – Regional PM profiles
- D2.3 – Complementarities across regions
- D2.4 – On-line database (Observatory)

This report describes the activities that have led to Deliverable 2.2 – Regional PM profiles.

## 2 Survey on PM/PH in regions

As reported in Deliverable 2.1, in July 2019 a survey was launched to have a clear view on the existing and future policies, funding instruments, implementation and performance of personalised medicine in European regions. An on-line questionnaire was sent out to about 150 regions, most of them having identified personalised medicine/health as a priority in their smart specialisation strategy (S3). In addition, the survey questionnaire was put on the JRC website (S3P4PM) and mentioned in the JRC newsletter. The questionnaire can be found on the SAPHIRE website [www.saphire-eu.eu](http://www.saphire-eu.eu).

The questionnaire is divided in 7 sections:

1. Contact
2. Policies & Strategies
3. Programmes & Funding Instruments
4. Projects & Initiatives
5. Infrastructure
6. Networks & Associations
7. Self-assessment

As per mid-October 2019, usable responses have been received from 31 regions from 16 countries. Response rate is about 20%. A second launch is considered later during the course of the project.

The table below shows the regions that completed the questionnaire.

<b>Country</b>	<b>Region</b>	<b>NUTS</b>
Austria	Carinthia (Kärnten)	AT21
Belgium	Brussels Region	BE1
Belgium	Flanders	BE2
Denmark	Capital Region (Hovedstaden)	DK01
Denmark	Central Denmark (Midtjylland)	DK04
Denmark	North Denmark (Nordjylland)	DK05
Finland	Länsi-Suomi	FI19
Finland	Etelä-Suomi	FI1C
Finland	Pohjois-ja	FI1D
France	Rhône-Alpes	FR71
Germany	Thuringia	DEG
Italy	Provincia Autonoma di Trento	ITH2
Italy	Emilia-Romagna	ITH5
Italy	Marche	ITE
Netherlands	Noord-Brabant	NL41
Poland	Lódzkie	PL11
Poland	Lubelskie	PL31
Poland	Podlaskie	PL34
Poland	Dolnoslaskie	PL51
Portugal	Norte	PT11
Portugal	Algarve	PT15
Portugal	Centro	PT16
Portugal	Madeira	PT30
Romania	Centru	RO12
Slovak Republic	Vychodne Slovensko	SK042
Slovenia	Slovenia West (Zahodna)	SI02
Spain	Navarra	ES22
Spain	Extremadura	ES43
Spain	Catalunya	ES51
Sweden	Skåne (Sydsverige)	SE22
United Kingdom	Northern Ireland	UKNO

Distribution of respondents by type of regional organisation:

Regional Government – Research & Innovation	40%
Regional Government – Health	27%
Innovation/Development Agency	19%
Research Institution	5%
Funding Agency	3%
Cluster Organisation	3%
Hospital	3%

### 3 Survey results

Some general observations:

- Not always easy to find the right person.
- People are not aware of projects, good practices, collaborations, networks etc. in their own region.
- People want to collaborate but don't know each other.
- 1/3 of the regions has no idea if they are member of PM/PH-related networks, associations or cluster organisations.
- Different competence levels.
- Competences are organised in very different ways.
- Most of the regions have a Research and Innovation Strategy for Smart Specialisation (RIS3).
- In most cases the RIS3 strategy has not been changed.
- Most of the regions' RIS3 strategies include PM/PH or related priorities.
- 10 regions have PM/PH-specific policy documents.

Despite the relative low response rate of 20%, the survey has provided a wealth of information. More than 100 links have been collected to websites, policy documents, projects, good practices and collaborations.

Part of the survey was a self-assessment, in order to get a view of the state-of-play PM/PH in the respective regions. The first question was: "How do you perceive in general the level of implementation of PM/PH in your region?". About 1/3 of the respondents answered 'low', 1/3 'medium' and 1/3 'high' to 'very high'.

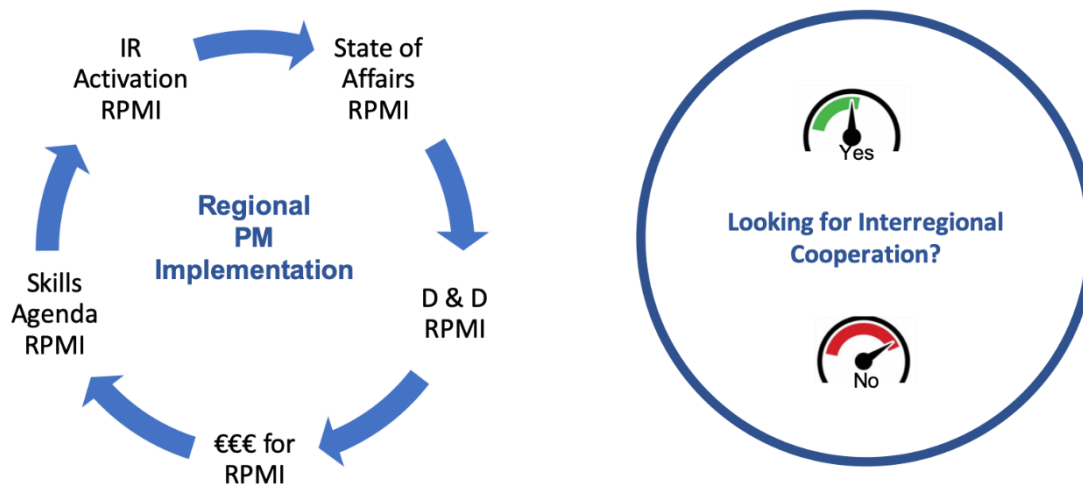
The need for further developing and implementing PM/PH in the region, as well as the need for increasing the capacity of PM/PH related skills and literacy, and the need for increasing support/funding was rated 'high' to 'very high' by 83% of the respondents. The need for increasing (cross-border) interregional collaboration was rated '(very) high' by 68%.

#### 4 Regional PM profiles

The results of the survey are compressed in a PM profile per region (see Annex). The profiles will serve as input for the SAPHIRE Observatory. The profile template is shown on the next page.

As mentioned earlier, the process of information gathering is an ongoing exercise during the course of the project. The profiles will help us in supporting regions in Europe to structure the implementation and adoption of PM/PH in their healthcare systems.

*Figure: SAPHIRE's process cycle to implement PM/PH in regions through interregional collaboration.*



*RPMI = Regional Personalised Medicine Implementation*

*D&D = Development & Deployment*

*IR = Interregional*

## 5 PM profile template

SAPHIRE   Survey 2019	REGION Emilia-Romagna (ITH5)  ART-ER												
<b>SELF-ASSESSMENT</b> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; padding: 5px;">Perceived implementation level of PM/PH?</td> <td style="text-align: right; padding: 5px;">H</td> </tr> <tr> <td style="padding: 5px;">Need for developing and implementing PM/PH?</td> <td style="text-align: right; padding: 5px;">H</td> </tr> <tr> <td style="padding: 5px;">The need for increasing the support/funding for PM/PH related activities in your region?</td> <td style="text-align: right; padding: 5px;">VH</td> </tr> <tr> <td style="padding: 5px;">The need for increasing the capacity of PM/PH related skills and literacy?</td> <td style="text-align: right; padding: 5px;">H</td> </tr> <tr> <td style="padding: 5px;">Genomics literacy of citizens?</td> <td style="text-align: right; padding: 5px;">M</td> </tr> <tr> <td style="padding: 5px;">The need for increasing (cross-border) interregional collaboration in PM/PH related activities?</td> <td style="text-align: right; padding: 5px;">M</td> </tr> </table> <p style="text-align: center; margin-top: 5px;"> <span>low</span>                      <span>Medium</span>                      <span>high</span>                      <span>very high</span> </p> <div style="margin-top: 10px; padding: 5px; border: 1px solid black;"> <p>Is your region looking for interregional collaboration opportunities? </p> </div> </div>		Perceived implementation level of PM/PH?	H	Need for developing and implementing PM/PH?	H	The need for increasing the support/funding for PM/PH related activities in your region?	VH	The need for increasing the capacity of PM/PH related skills and literacy?	H	Genomics literacy of citizens?	M	The need for increasing (cross-border) interregional collaboration in PM/PH related activities?	M
Perceived implementation level of PM/PH?	H												
Need for developing and implementing PM/PH?	H												
The need for increasing the support/funding for PM/PH related activities in your region?	VH												
The need for increasing the capacity of PM/PH related skills and literacy?	H												
Genomics literacy of citizens?	M												
The need for increasing (cross-border) interregional collaboration in PM/PH related activities?	M												
<b>POLICIES</b>  RIS3  PM@RIS3	<b>TOPICS OF INTEREST</b>  <input type="checkbox"/> Medical research and innovation <input type="checkbox"/> Specific disease related research <input type="checkbox"/> Prediction & prevention <input type="checkbox"/> ICT/genomics, health, lifestyle data (infrastructure) <input type="checkbox"/> m- and e-Health solutions <input type="checkbox"/> Public awareness, patient participation												
<b>Memberships</b>  EUREGHA CEBR	<b>Innovation</b>  Italy   Moderate Innovator ER   Moderate+												
<b>MAJOR INITIATIVES</b>  HOLOGENE 7   website <a href="http://www.hg7porfesr.eu/en/homepage-2/">http://www.hg7porfesr.eu/en/homepage-2/</a> CUSTOM IMPLANTS   website <a href="http://www.custom-implants.it/">http://www.custom-implants.it/</a>													