





H2020-ICT-2019-2 Photonics Manufacturing Pilot Lines for Photonic Components and Devices

MedPhab

Photonics Solutions at Pilot Scale for Accelerated Medical Device Development

Starting date of the pilot line: 01/01/2020 Duration: 48 months

= Deliverable D9.3 =

Pilot line print media, brochure, leaflets available

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PP	Restricted to other programme participants (including the Commission Services)		
RE	Restricted to a group specified by the consortium (including the Commission		
	Services)		
со	Confidential, only for members of the consortium (including the Commission		
CO	Services)		



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Executive Summary

In accordance with Work Package 9 (Exploitation, dissemination and communication), we present herein the pilot-line print media, brochure, leaflets available for MedPhab, which aims to serve as Europe's first pilot line dedicated to the manufacturing, testing, validating and upscaling of new photonics technologies for medical diagnostics. This report details the Pilot line print media, brochure and leaflets that will be used as dissemination tools to convey the pilot line messages and achieve the pilot line's aims and objectives.

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1. Introduction

In Section 3.5 of deliverable 9.2 for the MedPhab pilot line, we detailed the dissemination tools and activities to be used to convey the pilot line messages and achieve the key objectives of MedPhab's dissemination strategy, namely, to:

- 1. Create broad awareness and understanding of the MedPhab pilot line services.
- 2. Maximize the number of companies applying to use MedPhab's technologies and services.
- 3. Create an investor/user eco-system comprising investors and people at decision-maker level from hospitals and the key companies who are interested in emerging photonics-based technologies and engaging with the EU photonics/medical device ecosystem.

In this deliverable, 9.3, we detail the Pilot line print media, brochure and leaflets available (herein referred to as 'print media') that will be used to support all MedPhab dissemination activities. The type of dissemination events and activities the pilot line print media will support and promote are detailed in section 2, while section 3 contains details of the print media itself and includes the pilot line, banners, flyers, press releases, communication kit and advertisements for events.

2. Use of Pilot line print media

Pilot line print media will be used to support, advertise and promote various dissemination events and activities according to the needs of each stakeholder group as detailed in Table 1.

	Table 1: Summary of types of events that Pilot line print media will advertise and promote with desired objectives by target stakeholder group		
Target Stakeholder Group	Print media will be used to advertise and promote MedPhab's presence at:	Event objectives	
1. Users of the pilot line	 EPIC and leading photonics events such as OFC, Photonics West, ECOC. Application-oriented events such as MEDICA. 	 Disseminate the progress and latest results of pilot line to obtain users of MedPhab Increase number of registrations in ecosystem building tool Increase number of companies enquiring through front office and during the second year through open calls. 	
2. End-users of MedPhab products (medical doctors, system integrators etc.	 International associations in medical devices such as AACC and MedTech. Pilot line workshops giving visibility to the commercial partners of the pilot line. Main exhibitions for medical technologies such as MedTech and COMPAMED. 	To promote faster and increased demand from end users for MedPhab devices, thus increasing SME participation in pilot line by: • promoting photonics technologies among end-users internationally. • creating a photonic medical network, comprising people at decision-maker level from hospitals and the key companies.	
3. Research and scientific community	 Presentations of MedPhab publications at international technical conferences such as ECOC, Publications in international journals Presentation of results at international events and workshops 	 Disseminate the latest results towards Photonics actors Encourage new collaborative research proposals Stimulate young scientists and engineering students to research in photonics-based medical technology 	
4. Policy Makers & Funding Agencies	High-profile events, such as Photonics21 annual meetings and H2020 promotional events.	 To increase awareness of politicians/policy makers on the importance of photonics/MedPhab for jobs, training and economic to maintain and secure future funding for photonics. To promote top-line KPIs on user numbers, revenue generation and job-growth opportunities. 	

5. General public and the media	Non-scientific publications.Events exhibitions promoting new Photonics	Give transparency on how EU citizen's taxes are being spent.
	solutions.	 Increase awareness among the public on the potential that MedPhab/photonics have for the growth and stability of the European economy in order to put pressure on politicians to support future initiatives in photonics. Increase visits to pilot line website and downloads of public deliverables.
6. Investors	 Annual workshops with investors Regular events such as EPIC VIP dinners with EPIC Corporate Investors and Business Angels Dinners as well as EPIC technology workshops to be held in partnership with other pilot lines such as InPulse and MIRPHAB. 	 Enhance investor confidence in MedPhab technologies. To prepare user companies to maximize their chances to raise investment and create improved business certainty.

3. Print media, brochure, leaflets available for use as dissemination tools

All print media, brochures and leaflets will be used to convey the pilot line's messages and objectives in accordance with the following principles:

Acknowledgements

All print media will contain the Grant Agreement number, the EU emblem and Photonics21 logo will be displayed prominently together with the text "Photonics Public Private Partnership". The link www.photonics21.org will also be included. Similarly, all LinkedIn and Twitter posts relating to MedPhab will include the links #Photonics, @Photonics21 and @PhotonicsEU.

Gender equality

All print media will use gender neutral texts and display a balance of female/male imagery.

3.1. Flyer

The objective of the flyers is to aid in the communication of the pilot line regarding the non-specialized community and stakeholders. The flyers will be printed and distributed to partners, the EC and at various events. Infographics will be used for better visualization of the information and pilot line's objectives.

The flyer for MedPhab is shown in **Figure 1**.

MedPhab Pilot Line

The European Commission has funded the establishment of the MedPhab Pilot Line under Horizon 2020, the Framework Programme for Research and Innovation. The consortium consists of 18 partners. Orders for this pilot production line are coordinated in a centralised manner and channelled to the manufacturer with the best implementation capability. The purpose of MedPhab pilot production line is to accelerate the commercialisation of diagnostic devices and instruments for treatment based on photonics, and to reduce the R&D costs.

MedPhab Partners









MedPhab Pilot Line

info@medphab.eu www.medphab.eu www.linkedln.com/company/medphab www.twitter.com/medphab

Funded by



www.photonics21.org













Hospital Use

In a hospital environment, the solutions assist doctors by giving them real-time information of how the treatment is progressing, without the need to send patient samples to a laboratory.



Home Care Services

The equipment for home diagnostics, can be used for monitoring how a patient is recovering from an operation or a fit of illness and for getting a wider picture of the situation than currently possible.



Equipment for Molecular Diagnostics

Molecular diagnostics is about establishing a clinical picture or diagnosing an infection based on a serum, saliva or urine sample.







Dedicated to efficiency

MedPhab is Europe's first Pilot Line dedicated to manufacturing, testing, validation and up-scaling of new photonics technologies for medical diagnostics enabling accelerated product launch with reduced R&D costs.

Technologies

- Fiber optics
- Microfluidics
- Surface functionalisation
- Instrumentation
- Opto-electronic integration
- Custom medical patches
- Miniaturisation for micromodules and wearables

Use cases

- IVD platform for nucleic acid diagnostics
- IVD biosensing platform based on silicon photonics
- IVD platform and reader unit for immunoassay Biophotonics device for surgical guidance
- Mobile photonic reader for cardiovascular complications

MedPhab Photonic Medical Devices

Enabling new diagnostics tools

Use Case Validation Program

The participation of companies with ISO13485 standardised manufacturing ensures the seamless transition from pilot line production to up-scaled production without a need for changing service providers. Use-case companies have been selected for the validation of the pilot line services covering both in-vivo and in-vitro domains.

Demo Case Open Calls Program

The Demo Case Open Calls Program will enable early adoption of the technologies by external user, demonstrating the pilot line services and validating the open access business model. 18 SME's will be selected as Demo-Cases by open calls covering various medical diagnostic fields showcasing the full extent of MedPhab's technology. External companies are invited to join from June 2021.



Figure 1. MedPhab Flyer

3.2. Banners

The roll-up banner is a valuable support for dissemination at exhibitions and shows in one image. The fundamental information about the pilot line, which should be meaningful for the full possible audience at any exhibition and event. The roll-up banner of MedPhab is based on the content of the flyer and is represented in **Figure 2**.



Enabling new diagnostics tools



Our technology offer





Figure 2. Roll-up banner

3.3. A4 Advertisement

The advertisement in DIN A4 format is also a printed material on one page, on a different format of the flyer but based on the same content. This format of print media is a valuable support for dissemination at exhibitions and shows. The fundamental information about the pilot line which should be meaningful for the full possible audience at any exhibition and event. The A4 advertisement of MedPhab is represented in **Figure 3**.



Photonics-based pilot line for medical applications

Enabling new diagnostics tools



Get real-time information on progression in treatment without the need to send samples to a laboratory.



Advanced home diagnostics equipment for remote monitoring of patients recovering from an operation or illness.



Establish a quick clinical picture or diagnose an infection based on a serum. saliva or urine sample.

Our technology offer

- Fiber optics
- Microfluidics
- Surface functionalisation
- Instrumentation
- Opto-electronic integration
- Custom medical patches
- Miniaturisation for micromodules and wearables

PHOTONICS²¹











Figure 3. A4 Advertisement

3.4. Technical dissemination slides

The communication kit of MedPhab includes also technical dissemination slides able to instruct also technically educated people in the MedPhab technologies about the role and the capabilities of the pilot line and the potential for possible customers. A few examples of the present version of the technical dissemination slides are represented in **Figure 4**.



Figure 4. Examples of the technical dissemination slides

3.5. Newsletters

E-mail newsletters will be distributed at six-monthly intervals to identified stakeholders.MedPhab was included in the Pilot Lines Newsletter in January and May 2020 (Figures 5-7) https://mailchi.mp/10e271396218/european-pilot-lines-quarterly-update-january-1387985?e=[UNIQID]



Miniature photonics-based devices offer advanced solutions of cost-effectiveness, compatibility with existing technologies, compact size, and low power consumption to many industries, such as healthcare, telecommunication, automotive, cyber-security, and many others. Facilitating access to the well-established Photonics Integrated Circuits (PICs), the Pilot Lines, PIX4LIFE, PIXAPP, MIRPHAB, JePPIX, PHABULOUS and MedPhab provide industrial organizations and research entities affordable and customized services to utilize unique PIC technology capabilities from design for prototyping to scalable commercial production.



Figure 5. Screenshots of the Pilot Lines Newsletter in January 2020 which included the MedPhab Pilot Line

MedPhab

Photonic Medical Devices

MedPhab is Europe's first Pilot Line dedicated to manufacturing, testing, validation and up-scaling of new photonics technologies for medical applications ranging from diagnostics to surgical tools and therapeutics. The purpose of MedPhab pilot production line is to accelerate the commercialisation of diagnostic devices and instruments for treatment based on photonics and to reduce the R&D costs. The chosen areas are devices intended for hospital use (assist doctors), home care equipment for chemical diagnostics (based sample). MedPhab will also provide seamless transition from pilot line production to upscaled production without a need for changing service providers. Use-case validation of the pilot line services covering both in-vivo and in-vitro domains.

MedPhab kick-off Meeting took place on 14-

15 January 2020 in Brussels.



MedPhab upcoming highlighted events:

- Photonics West (4-6
 February 2020, San Francisco, USA)

 Booth #5280
- Pilot Lines Executive Breakfast (4 February 2020, San Francisco, USA)

Meet us at

Website: www.medphab.eu LinkedIn: MedPhab Pilot Line

Twitter: @MedPhab

Key contacts

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Jussi.Hiltunen@vtt.fi



MedPhab Pilot Line

MedPhab is Europe's Pilot Line dedicated to manufacturing, testing, validation and up-scaling of new photonics technologies for medical diagnostics enabling accelerated product launch with reduced R&D costs.



MedPhab is the first pilot line fully dedicated to photonic-based medical devices for hospital use, home care services and equipment for molecular diagnostics.

Visit our new website >>>

25 March 2020 - Presenting at Webinar on Respiratory Masks Jussi Hiltunen presented MedPhab at the EPIC Webinar on Towards a prototype of an anti-virus UVC-LED-based respiratory mask on 25 March 2020.

View the full webinar here >>> (registration required)

4 May 2020 - Online Meeting on In-vivo Imaging

Jussi Hiltunen presented MedPhab during the EPIC Online

Technology Meeting on In-vivo Imaging on 4 May 2020.

Watch the presentation on our YouTube channel >>>

19 May 2020 - Presenting at the AngelTech Online Summit Robin de Bruijn will be presenting the MedPhab Pilot Line at the PIC Pilot Line Conference.on 19 May 2020 at 13.20 CEST.

Follow the PIC Pilot Lines Conference Breakout Sessions >>>

27 May 2020 - Webinar on Diagnostics using Photonics Sören Fricke will be presenting the project at a decicated MedPhab webinar on 27 May 2020 at 17:00 CEST.

Event is already overbooked and not available for registration >>>

4-6 December 2020 - Meeting on Medical Devices
MedPhab is partner of the EPIC Meeting on Medical Devices at
Philips Innovation Services. 4-6 December 2020.

Register on the event website >>>























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Figures 6 and 7. Screenshots of the Pilot Lines Newsletter in January and May 2020 which included the MedPhab Pilot Line

3.6. Press releases

The consortium issued a press release at pilot line launch (shown below). This was published among others by optics.org, PhotonicsViews, PIC Magazine. The consortium will issue additional press releases whenever the pilot line has reached a significant milestone or exceptional scientific, economic or societal impact. There will be a final press release at the end of the pilot line.

MedPhab Press Release, January 2020

Dedicated photonics pilot-line for medical diagnostics

The European Commission decided to expand the existing photonics pilot-line offering by funding the establishment of MedPhab pilot-line under Horizon 2020, the Framework Programme for Research and Innovation.

Photonics is based on combining optics and electronics, and it enables various medical applications from diagnostic devices to instruments for treatment. However, both photonics in itself and its areas of application are fragmented, which poses challenges to equipment manufacturers. Furthermore, the strict regulations within the sector slow down the introduction of new solutions. The orders for the pilot production line are made in a centralised manner and channelled to the manufacturer with the best implementation capability. The purpose of MedPhab pilot production line is to accelerate the commercialisation of diagnostic devices and instruments for treatment based on photonics, and to reduce the R&D costs.

Test production in three application areas

The technology validation of pilot production line focuses on three application areas intended for hospital use, home care devices and equipment for chemical diagnostics. In a hospital environment, the solutions assist doctors by giving them real-time information of how the treatment is progressing, without the need to send patient samples to a laboratory. The equipment for home diagnostics, on the other hand, can be used for monitoring how a patient is recovering from an operation or a fit of illness and for getting a wider picture of the situation than currently possible. Chemical diagnostics is about establishing a clinical picture or diagnosing an infection based on a serum, saliva or urine sample.



Cooperation within a strong consortium

The pilot production line is being developed in a consortium involving research institutes and companies from various parts of Europe. The role of research institutes is to develop new production technologies. The participation of companies with ISO13485 standardized manufacturing ensures the seamless transition from pilot line production to up-scaled production without a need for changing service providers. Use-case companies have been selected for the validation of the pilot line services covering both in-vivo and in-vitro domains.

"The results of the pilot line will play a major role with a view to the competitiveness of next-generation wearable devices using optics. The cooperation will give companies an opportunity to get acquainted with new manufacturing techniques and pilot them with only a minor own investment," says Jyrki Schroderus, Director, Research&Technology at Polar.

"The pilot line supports the development of Screentec's production competence in various product groups, particularly in the manufacturing and mechanical integration of measuring systems based on optics. The collaboration enables testing and validation of new production and integration processes based on customer needs," says Antti Tauriainen, Managing Director at Screentec.

"The pilot line supports the scale up of Antelope Dx's silicon photonics functionalization and manufacturing processes. Having access to the knowledge at the various partners will definitively speed up the development process and translation into actual manufacturing processes," says Jan-Willem Hoste, COO at Antelope Dx.

"The new production processes will allow to integrate new photonic functionality in both the GENSPEED R2 analyzer but even more importantly also directly into GENSPEED's Testchips. This will open new fields of applications for the GENSPEED technology, "says Max Sonnleitner, CEO of GENSPEED Biotech.

"MedPhab will support the next-stage development of Radisens Diagnostics' IVD point-of-care platform. The know-how within the consortium will be used to introduce photonics and non-photonics technologies for the manufacture of a cost-effective point-of-care reader and accompanying test cartridges," says Donal Cronin, Product Development & Programme Director at Radisens Diagnostics.

MedPhab info

MedPhab is an initiative of the Photonics Public Private Partnership and connected to Photonics21 (www.photonics21.org). The pilot line was granted (no 871345) EU funding amounting to EUR 15 million. The pilot line is coordinated by research professor Jussi Hiltunen, VTT – Technical Research Centre of Finland. The consortium comprises:

- 1 VTT Technical Research Centre of Finland Ltd
- 2 Tyndall University College Cork National University of Ireland
- 3 Joanneum Research Forschungsgesellschaft GmbH
- 4 IMEC Interuniversitair Micro-Elektronica Centrum
- 5 CSEM Centre Suisse d' Electronique et de Microtechnique SA
- 6 Philips Electronics Nederland B.V.
- 7 Jabil Circuit Austria GmbH
- 8 Screentec OY
- 9 III-V Lab
- 10 Stryker
- 11 Polar Electro OY
- 12 Radisens Diagnostics Limited
- 13 Antelope Dx
- 14 GENSPEED Biotech GmbH
- 15 ViennaLab Diagnostics GmbH
- 16 Stichting Het Nederlands Kanker Instituut Antoni Van Leeuwenhoek Ziekenhuis
- 17 EPIC European Photonics Industry Consortium
- 18 Amires s.r.o.





PHOTONICS PUBLIC PRIVATE PARTNERSHIP



Image. MedPhab Kick off Meeting in Brussels, 14-15 January 2020.

3.7. Advertisements for dissemination events

Print media will be used on the website and social media to advertise various events at which MedPhab will be present in order to 1) increase visibility of the pilot line, 2) inform potential users and collaborators about the pilot line's technology and services, and 3) obtain potential user and end user leads.

A provisional calendar of MedPhab Events for 2020 together with the advertisements used is shown in Table 2, below. Due to the world health emergency resulting from COVID-19 that started in early 2020, some exhibitions and events have been postponed or transformed into online events to compensate for missing dissemination opportunities.

Table 2: Adver	tisements for MedPhab Events in 2020	
Date	Event	Image of advertisement used in social media posts, website and flyers if needed
03 Feb 2020 –	EPIC world photonics Technology Summit, San Francisco USA	NAME OF THE PROPERTY OF THE PR
04 Feb 2020	Pilot lines Breakfast meeting	THE PILOT LINES EXECUTIVE BREAKFAST MedPhab Photonic Medical Devices Funded by
4-6 Feb 2020	SPIE Photonics West (PW) pilot lines booth, San Francisco, USA	OUR PARTNERS VIT Pulse AMIRES I CSEM SPEED STRIKE WEST 4-6 February 2020 San Francisco, USA BOOTH FUNDED BY PHOTONICS 2020 BOOTH 5280
25 Mar 2020	EPIC Webinar on Towards a prototype of an anti-virus UVC-LED-based respiratory mask	Wednesday 25 March 2020, 15:00 CET EPIC Webinar on Towards a prototype of an anti-virus UVC-LED-based respiratory mask
30 Mar 2020 POSTPONED 17-19 Nov 2020	PIC international	To be announced
4 May 2020	EPIC Online Technology Meeting on In-vivo Imaging	MedPhab Photonic Medical Devices Monday, 4 May 2020, 15:00 CEST EPIC Online Technology Meeting on In-vivo Imaging

19 May 2020	Angel tech Online summit	MedPhab Photonic Medical Devices
		Tuesday, 19 May 2020, 13:20 CEST MedPhab Presenting at the Angeltech Online Summit
27 May 2020	MedPhab Webinar on Diagnostics using Photonics	MedPhab Photonic Medical Devices PHOTONICS Wednesday, 27 May 2020, 17:00 CEST MedPhab Webinar on Diagnostics using Photonics
22 June 2020	EPIC Meeting on UV-LED based Technologies and Applications	MedPhab Photonic Medical Devices Monday, 22 June 2020, 15:00 CEST EPIC Meeting on UV-LED-based Technologies and Applications
30 Jun - 2 Jul 2020	MedTechLIVE	MedPhab Photonic Medical Devices Nürnberg, Germany 2020 MedLecLIV THE EVENT GOES VIRTUAL Tomorang the medical technology sugation chain MedPhab attends MedTechLIVE Virtual Exhibition
29-30 Oct 2020	EPIC Meeting on Automation for Manufacturing (Packaging and Testing) at PI, Karlsruhe, Germany	MedPhab Photonic Medical Devices PHOTONICS 29-30 October 2020 - Karlsruhe, Germany EPIC Meeting on Automation for Manufacturing
16-19 Nov 2020	COMPAMED	MedPhab Photonic Medical Devices **MARIO ST** **PHOTONICS** **P



4. Conclusion

In this report, we have detailed the comprehensive range of print media, brochure and leaflets available for use as dissemination tools to help convey MedPhab's messages and achieve the pilot line's goal of creating a successful European pilot line for the manufacturing, testing, validating and upscaling of new photonics technologies for medical diagnostics.

5. Degree of progress

The deliverable is 100% fulfilled.

6. Dissemination level

The Deliverable 9.3 Pilot line print media, brochure, leaflets available document is public and will therefore be available to download on the pilot line's website.