Project Description

The European Commission has funded the establishment of the MedPhab Pilot Line under Horizon 2020, the Framework Programme for Research and Innovation. The project consists of 18 partners. Orders for this 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.

Project Partners

VTT
Tyndall National Institute
JOANNEUM RESEARCH
imec
csem
AMIRES
JABIL OPTICS
screentec
III-V lab
stryker
Radisens DIAGNOSTICS
PHILIPS
POLAR
ANTELOPE DIAGNOSTICS
Innovation Services
GENSPEED BIOTECH
VIENNA LAB
EPIC European Photonics Industry Consortium
ANTONI VAN LEEUWENHOEK FOUNDATION

MedPhab

Photonic Medical Devices

MedPhab Pilot Line

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Funded by

PHOTONICS 21

PHOTONICS PUBLIC PRIVATE PARTNERSHIP

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www.photonics21.org

MedPhab

Photonic Medical Devices

Photonics based pilot-line for medical applications

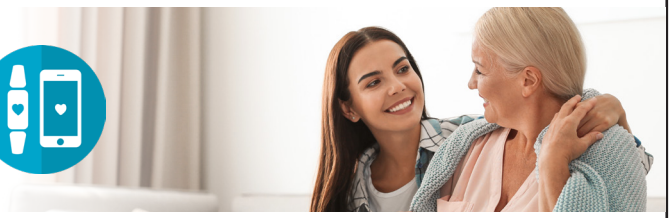
Funded by

PHOTONICS 21

PHOTONICS PUBLIC PRIVATE PARTNERSHIP

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.

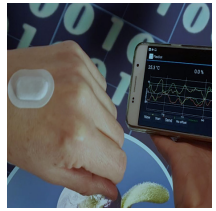


Home Care Services

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 Chemical Diagnostics

Chemical 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

- Fibre optics
- Microfluidics
- Surface functionalisation
- Instrumentation
- Opto-electronic integration
- 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 immunosensing
- Biophotonics device for surgical guidance
- Mobile photonic reader for cardiovascular complications

MedPhab

Photonic Medical Devices

Enabling new diagnostics and treatment 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.