HOW PHOTONICS CAN **SUPPORT YOU**

Photonics empowers the healthcare industry in countless ways. From faster, more accurate disease diagnosis and better medical treatment to improved medicine effectiveness and precise cancer detection through optical methods of medical imaging and in-vitro diagnostics.

Innovation with the advantages of light reduces the burden on healthcare and ensures a healthier, happier life.

Start your photonics innovation journey with our support.

DEMO & EXPERIENCE CENTRES

In addition to providing innovation support, PhotonHub Europe acts as a one-stop-shop matchmaker between European SMEs and the existing European ecosystem of photonics training providers. This extensive training offering is presented as a single online catalogue of the European Photonics Innovation Academy.

ONSITE TRAINING OPPORTUNITIES

Discover photonics at the one-day Demo Centres and become fully immersed at the three-day hands-on Experience Centres situated across Europe.

Advanced Imaging
Demo Centre by CD6 – Universitat Politècnica de Catalunya

Optics and Freeform Optics
Experience Centre by Vrije Universiteit Brussel B-PHOT

Terahertz Spectroscopy Application to Solid, Liquid and Gaseous Samples — Demo Centre by CNRS IEMN

FREE ONLINE INTRODUCTORY TRAINING OPPORTUNITIES

Half-day online sessions are delivered throughout the year.

View our complete training schedule and register your interest at ecosystem.photonhub.eu or by scanning the QR code.

DISCOVER
how PhotonHub can support your business with photonics

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PHOTONICS 21

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DISCOVER HOW YOU CAN

- ✓ **Boost prevention**
- ✓ **Diagnose diseases**
- ✓ **Manage chronic conditions**
- ✓ **Advance therapy options**

Explore all possibilities on photonhub.eu

Avail of a **free initial assessment by top experts** for European SMEs

Delve into how your business could minimise the risk and expense of deep technology innovation through "test-before-invest" support from PhotonHub.

PHOTONICS IS EMPOWERING THE COMPLETE CARE SPECTRUM

FROM PREVENTIC

EXAMPLES OF COMPANIES SUPPORTED WITH PHOTO

FIND MORE ON PHOTONHUB.EU

REDUCING DIAGNOSTIC TIMES THROUGH OPTICAL SENSORS

In-vitro diagnostic (IVD) products, especially those for body fluids such as whole blood, serum, plasma or urine, require a high level of precision in temperature measurement. EXIAS Medical partnered with Joanneum Research on introducing photonics to their analysis systems, enabling them to achieve shorter measurement times and a higher standard of accuracy and precision, especially for blood gas and glucose readings. This novel solution is applicable to the analysis systems used in hospitals, laboratories or large medical practices.

Scan the QR code overleaf to watch a short video on this project.

IMPROVING PROCEDU THROUGH HIGH-QUAL AND HIGH-RESOLUTIO

Shorter and less invasive procedu outcomes and ensure faster recov a key enabling technology for Tyn development of their next-genera minimally invasive ear, nose and t Vrije Universiteit Brussel (VUB) w on developing a prototype, involv their packaging expertise. The res the capabilities of the surgeon by and self-cleaning functionalities.

to watch a short video on this proj

TION

TO DIAGNOSIS

AND TREATMENT

Assessing muscle strength, endurance and fatigue

Creating high-resolution images of internal organs and structures

Delivering precise and minimally invasive treatments

TONICS INNOVATION PROJECTS

DURE ACCURACY UALITY ILLUMINATION TION IMAGERY

cedures improve patient recovery. Photonics has been or Tympany Medical in the eneration endoscope for and throat (ENT) procedures. UB) worked with the company nvolving the Tyndall Institute for he resulting endoscope enhances on by providing panoramic vision ties. *Scan the QR code overleaf s project.*

ASSESSING POST-OPERATIVE RECOVERY USING REMOTE OPTICAL MONITORING

Reducing the need for multiple hospital attendances following surgery can greatly improve patient outcomes. Real Implants Ltd. worked in collaboration with Optoelectronics Research Centre (ORC) on a feasibility study to explore the use of optical monitoring to assess the repair of fractures fitted with a 'smart' implant and enable real time, remote monitoring of healing. The aim of this solution would be to measure the healing response, without patient journeys to hospital and numerous x-rays, thereby reducing the cost of treatment while increasing convenience for the patient and improving their recovery and rehabilitation.