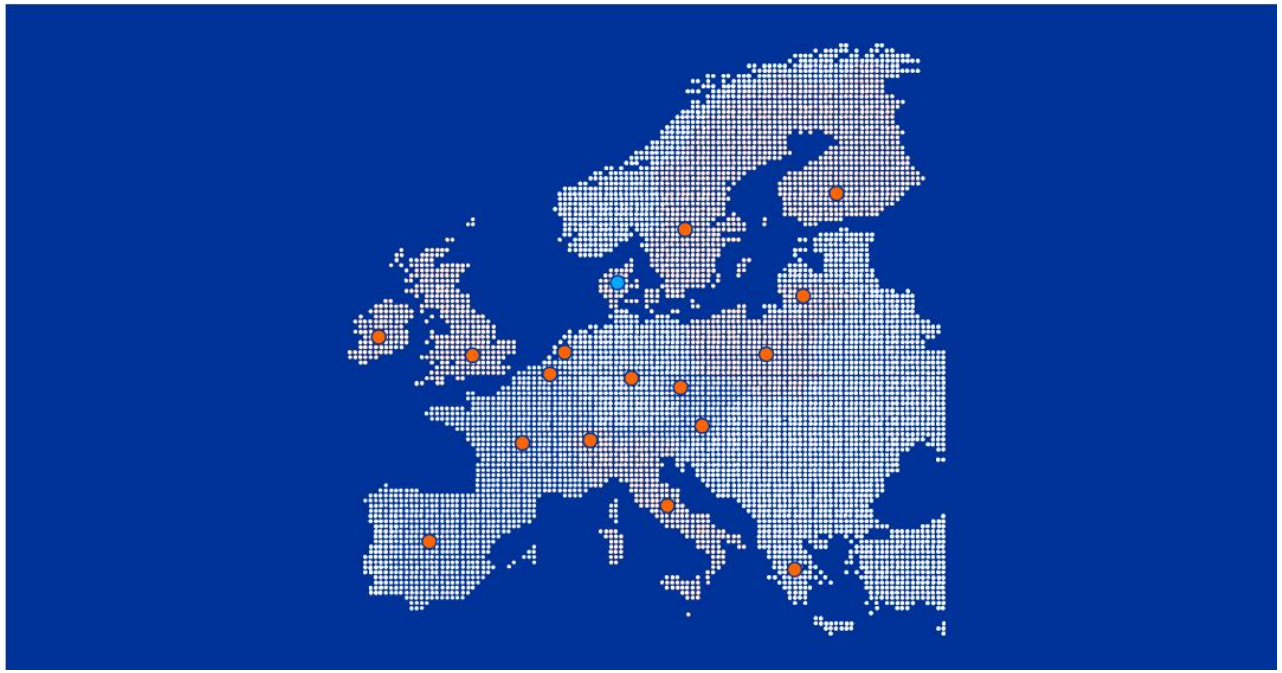
Photonics Pilot Line and Innovation Powerhouse for Europe



Susan Brindley, Brussels Photonics B-PHOT | Vrije Universiteit Brussel

Milan, 7 May 2024

VUB B-PHOT BRUSSELS PHOTONICS

PhotonHub Europe

HAMAMATSU

PHOTON IS OUR BUSINESS

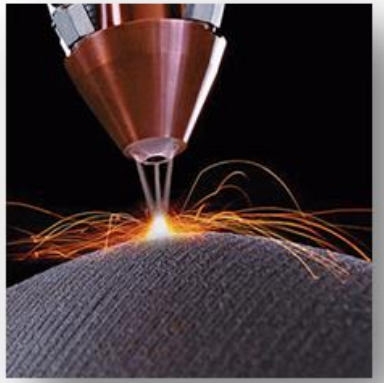
Today’s presentation:

- Opportunities to innovate through photonics
- Introduction to PhotonHub Europe
- Who can benefit and how
- How to engage with PhotonHub

The processes of discovery, innovation, and digitization are currently enabled by 8 key digital technologies

PHOTONICS the science and technology that innovates with light

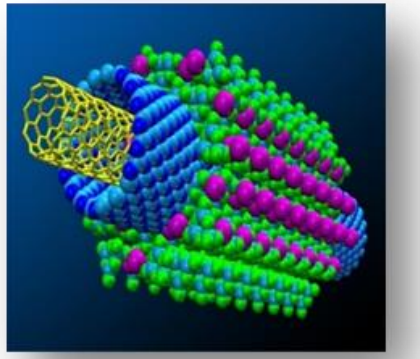
Photonics



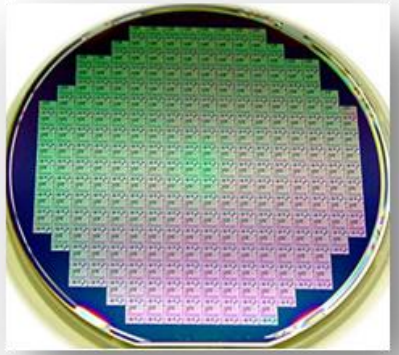
Advanced Manufacturing

Biotechnology

Advanced Materials



Nanotechnology



Nanoelectronics

Artificial Intelligence

Cyber Security

Photonics is a key-enabling core technology

Optical Telecom

Photovoltaics

LED Lighting

Displays

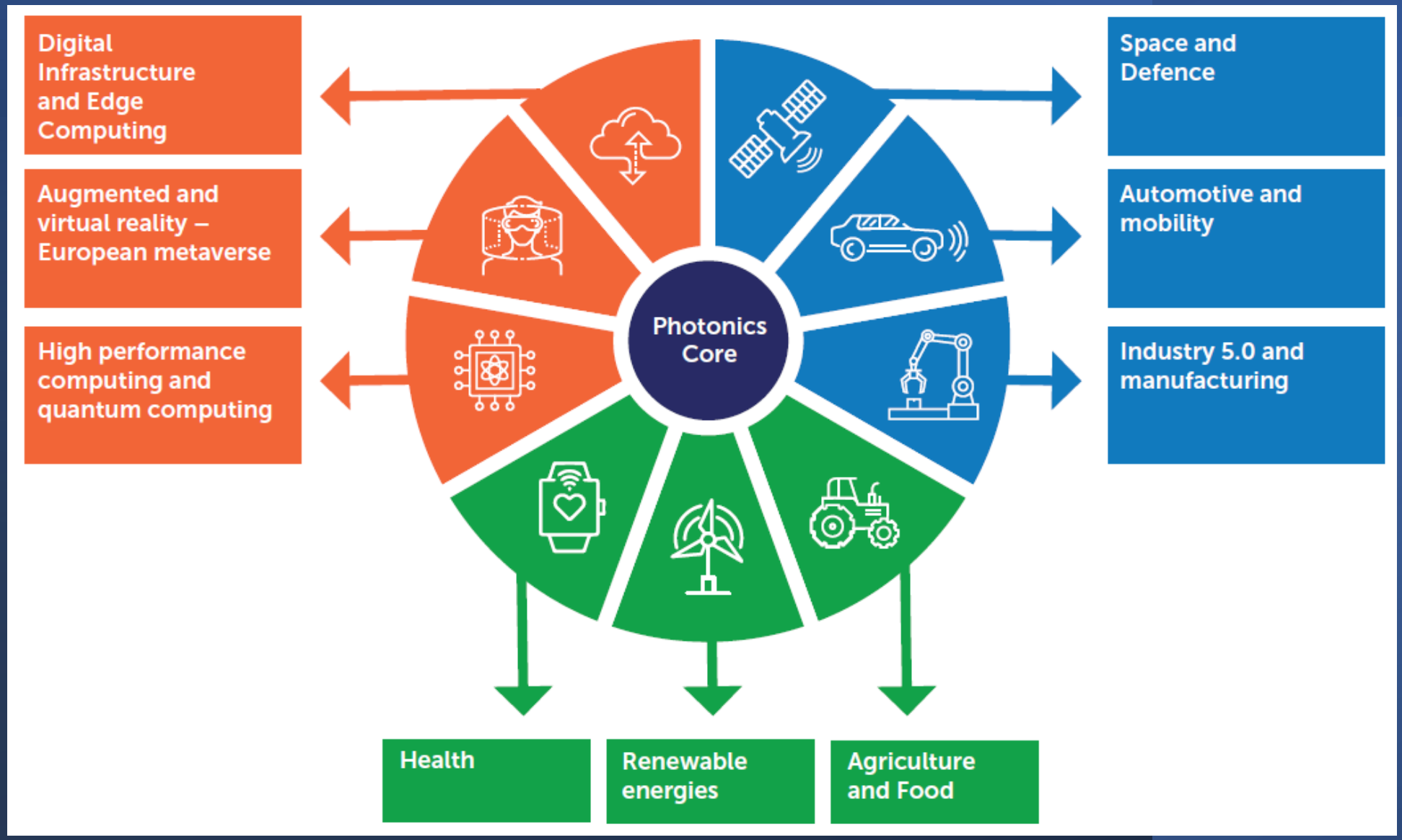
Lasers in Manufacturing

Medical Optics

Machine Vision

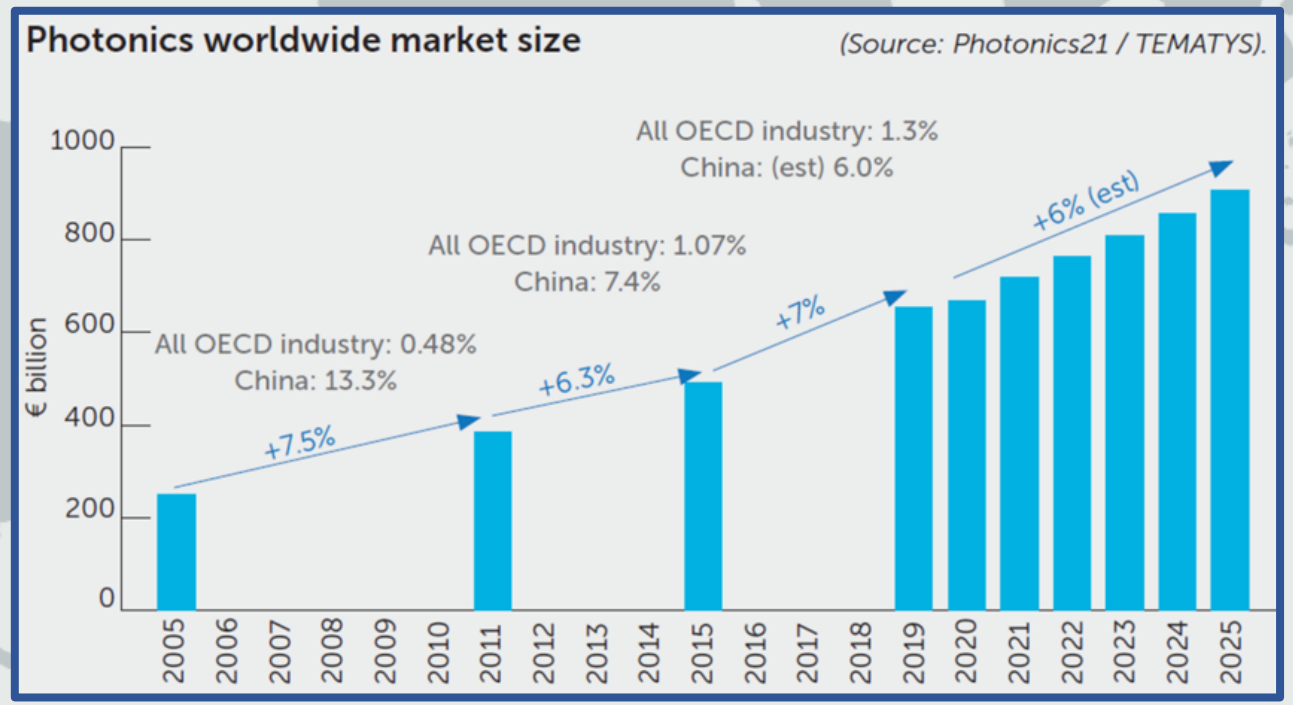
Optical Components

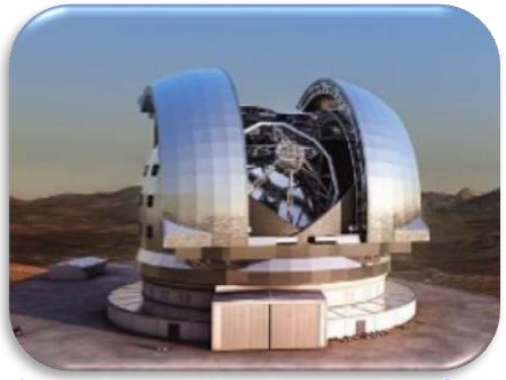
Recently photonics - as a core technology- has started to penetrate and innovate various highly important industry sectors



The photonics worldwide market has a CAGR of 7% as compared to a CAGR of 1,3% for the overall industry.

OECD : Organisation for Economic Co-operation and Development countries





Safety Security Space Defence

Health

Agro and Food

Manufacturing Industry 4.0

Photonics core technologies enable innovation in various industry sectors

Climate - Energy

Mobility

Smart Cities -Digital Infrastructure

SUSTAINABLE DEVELOPMENT GOALS

Live longer, feel better
Photonics in life sciences and healthcare

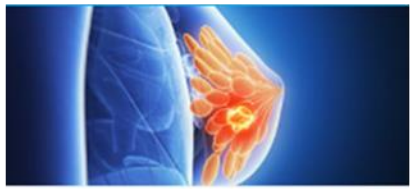
EUROPEAN UNION

EU MISSIONS

CANCER

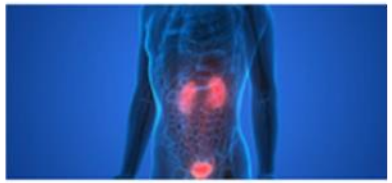
Photonics21
Tuesday, 24 August 2021

New imaging system to detect bowel cancer at the earliest stages using photonics



Photonics21
Tuesday, 10 March 2020

Breast screening breakthrough to end unnecessary biopsies



Photonics21
Wednesday, 01 July 2020

Instant bladder cancer scan could save thousands of lives

Optical imaging improves minimally invasive endoscopy for colorectal cancer

Minimally invasive surgery with optical endoscopes

High-resolution medical displays to support diagnosis and surgery

Photonics technologies such as “lab-on-chip” are vital for early point-of-care diagnosis

Infectious diseases

A global crisis in need of new solutions

Epidemic viruses

Influenza variants: H1N1, H5N1, H7N9
ZIKA (2015/16)
Ebola (2014-16)
SARS-CoV-2 (2019/20)

Antimicrobial resistances on the rise

EU: 25,000 deaths per year and 2.5m extra hospital days
USA: 23,000+ deaths per year and more than 2.0m illnesses
INDIA: 58,000+ babies died in one year; usually passed on from their mothers

Poverty related diseases

Tuberculosis – 1.5m deaths per year
Malaria – 1m deaths per year
AIDS – 0.75m deaths per year

PHOTONICS21

How to prevent the next pandemic?

Photonic solutions for urgent questions in infection diagnostics

Pathogen
Virus? Bacterium? Fungus?

Antibiotic resistance
Is the pathogen resistant?

Host response
How is the immune system responding?

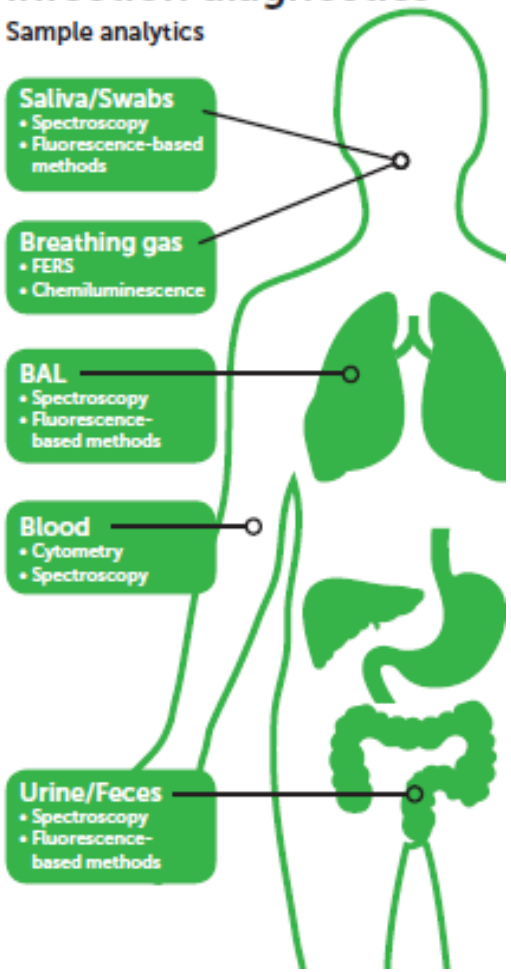
Best therapy
What is the optimal therapy?

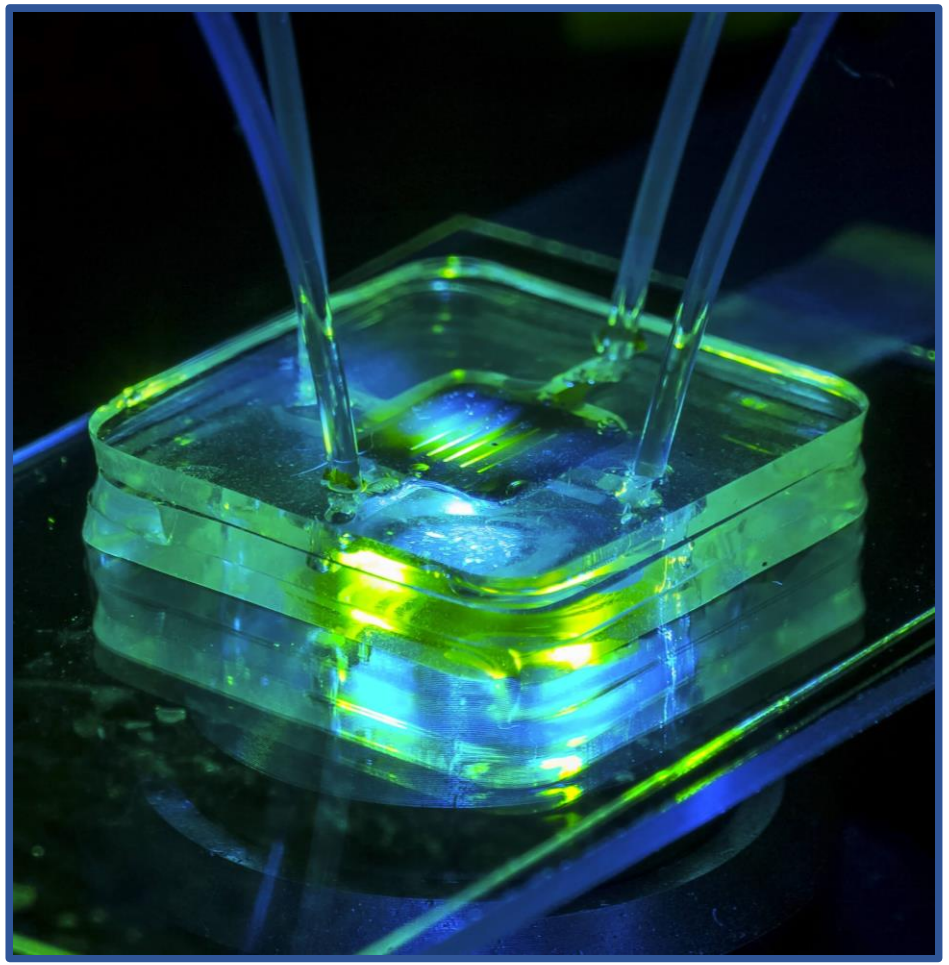
Well-funded research in Photonics enables:

- Efficient & easysample preperation
- Fast detectionof pathogens
- Antibiotic sensitivity testing
- Early sepsis diagnosis
- Online monitoring of therapies

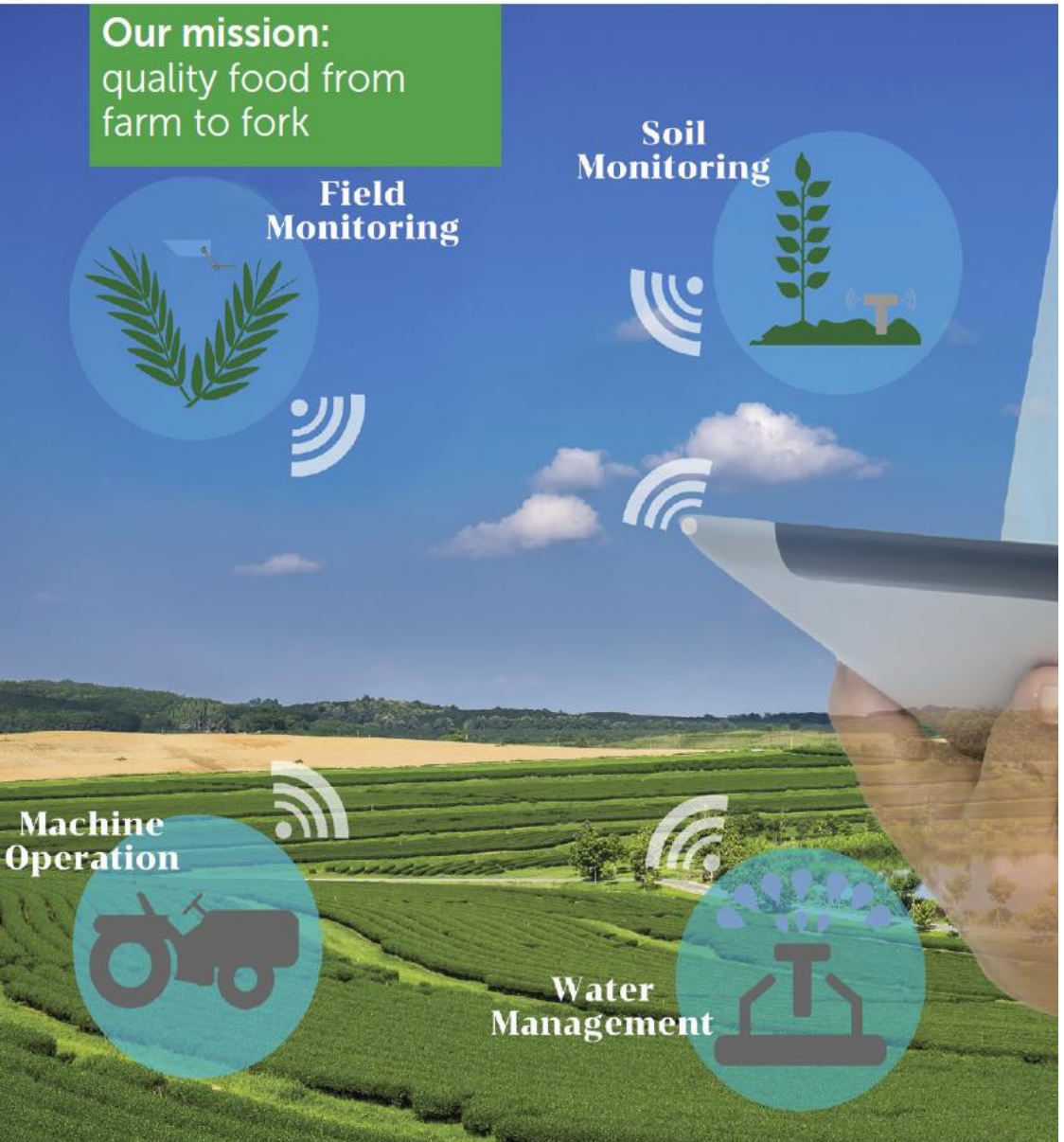
Photonics in infection diagnostics

Sample analytics



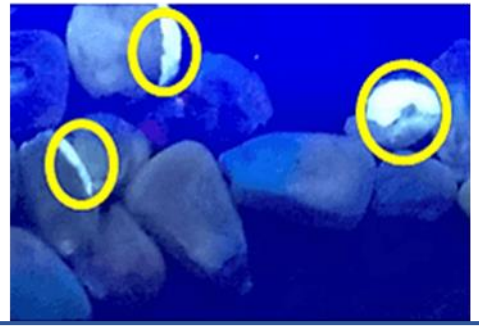


Feed the world
Photonics for safe, nutritious and affordable food



Optical spectroscopy for the detection of toxins and carcinogenics in food, and micro-plastics in drinking water

Detection of mycotoxins

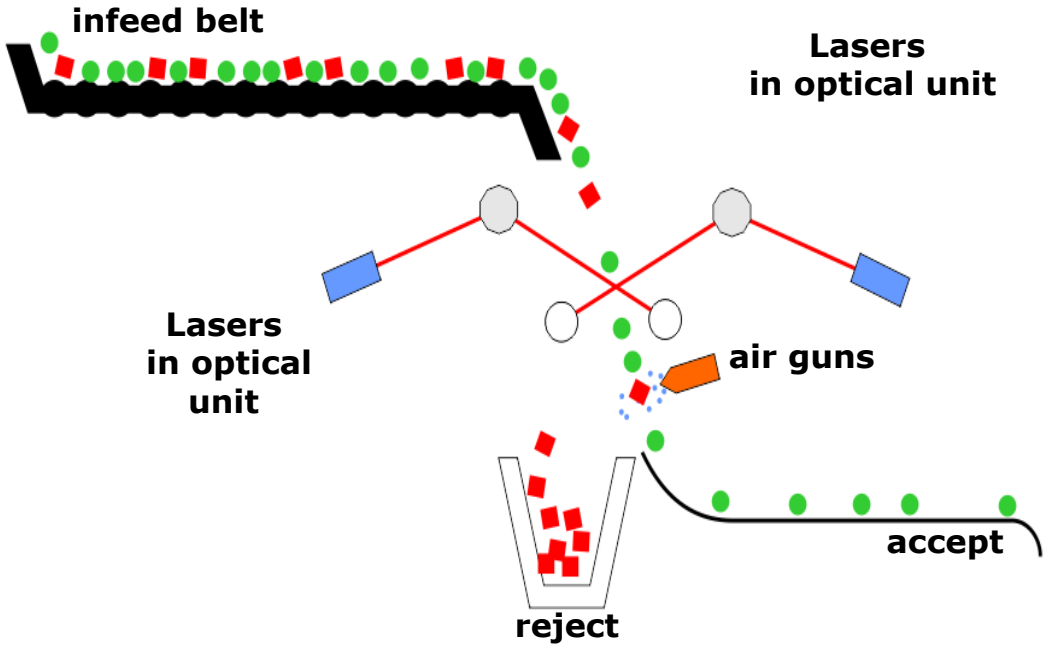


Acrylamide precursors

Authentication of food products

Micro-plastics in drinking water

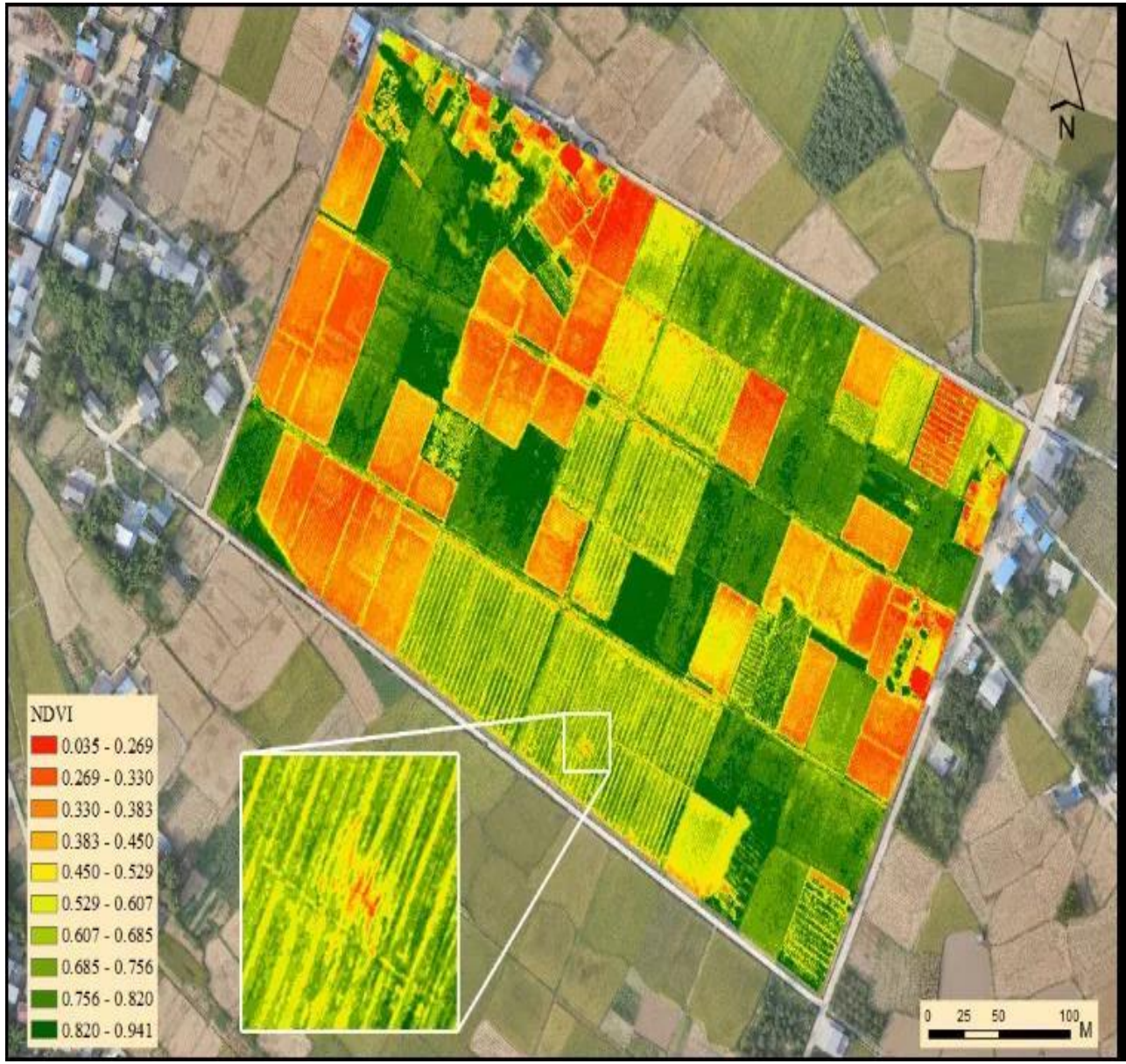
Laser assisted industrial food-sorting, quality and safety control



optimum SORTING

TOMRA SORTING SOLUTIONS | FOOD

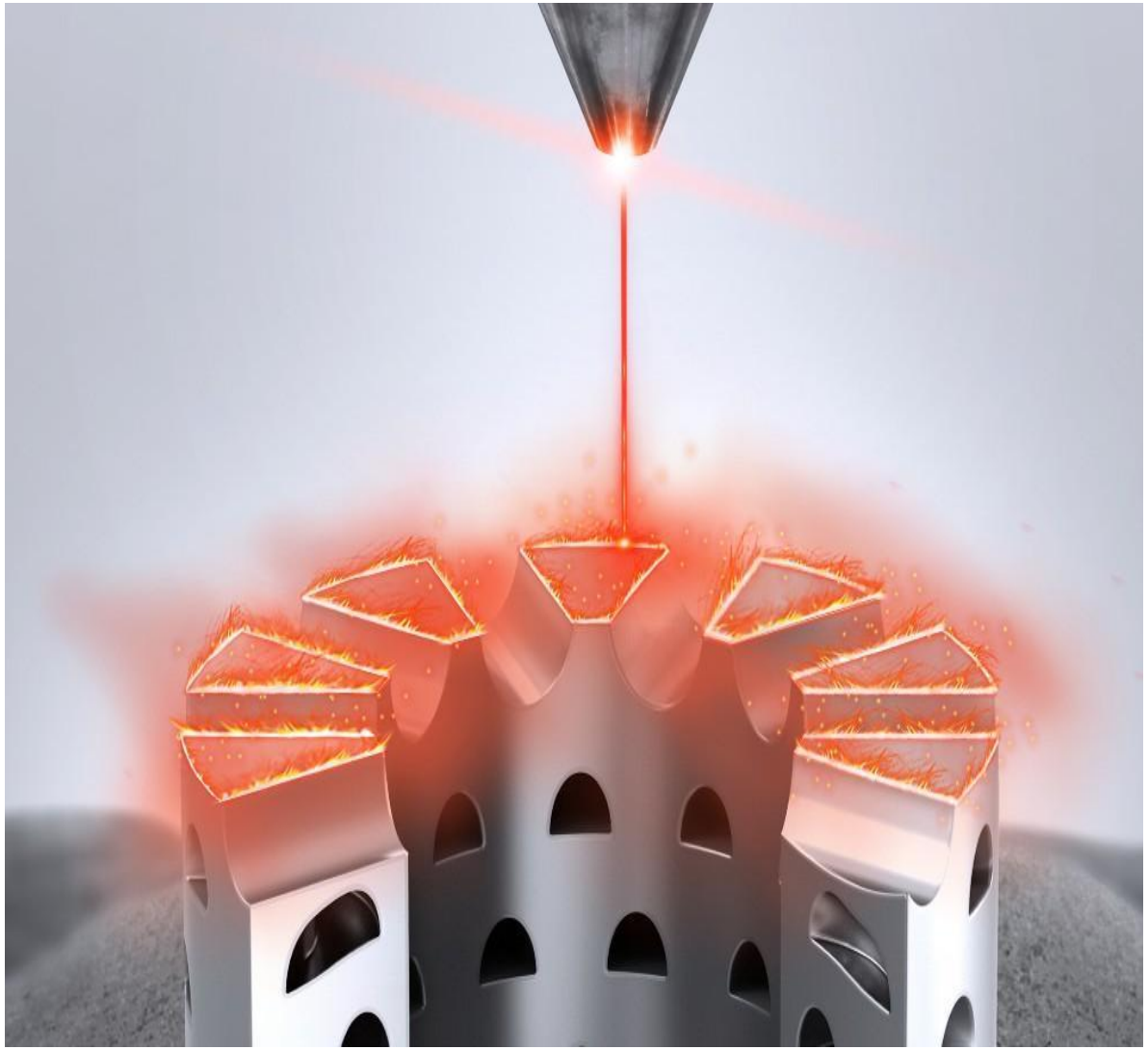
Precision farming with spectroscopic cameras on drones

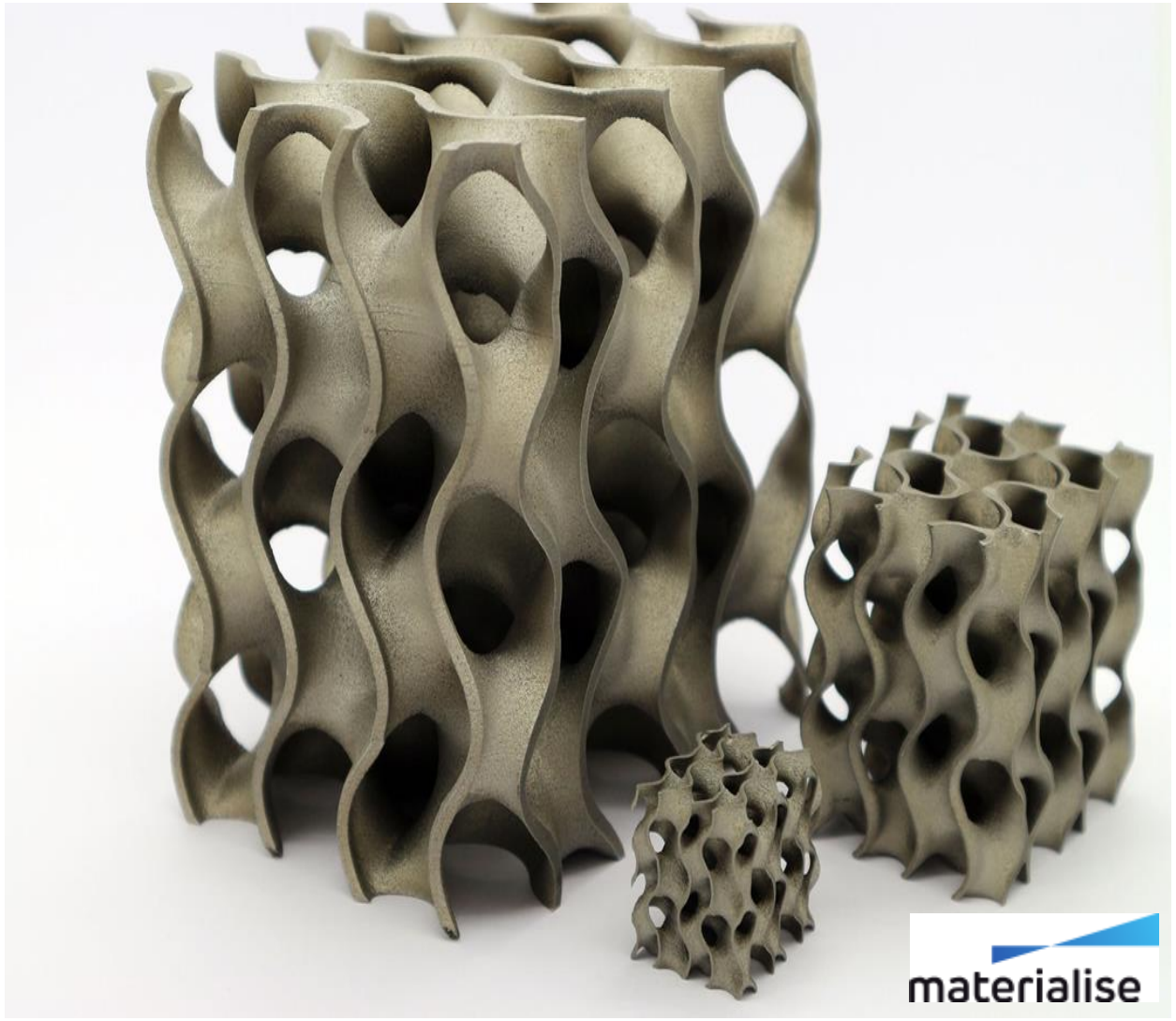


Empowering Industry 4.0
Photonics in manufacturing and production

High-power lasers combined with robotic arms revolutionize more durable manufacturing

Laser-based additive manufacturing unleashes the creation of extremely complex shapes that otherwise would be impossible to fabricate



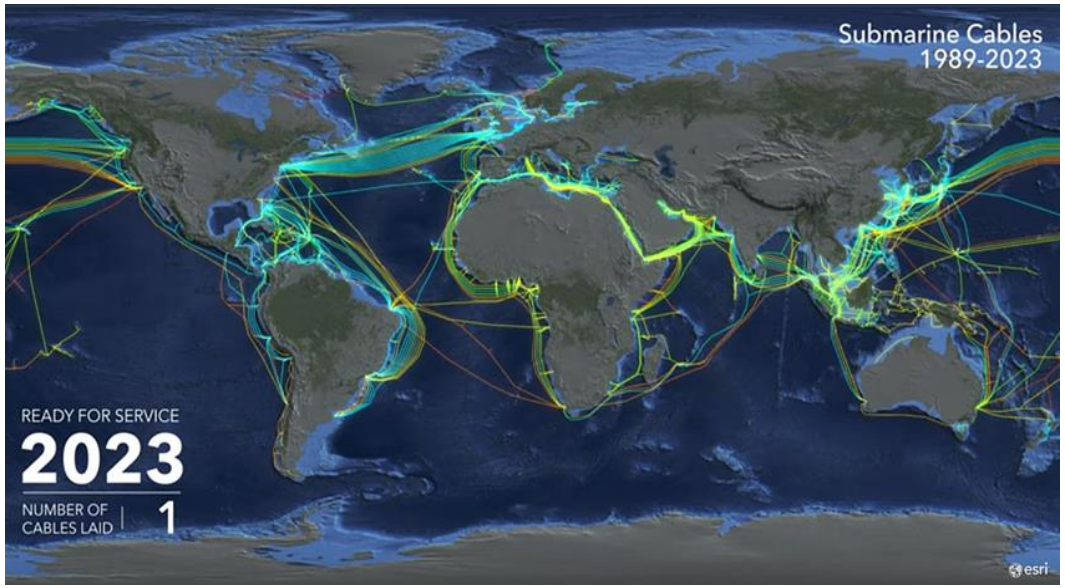


Inspection cameras and optical sensors form the basis of smart production chains with high quality and minimal waste

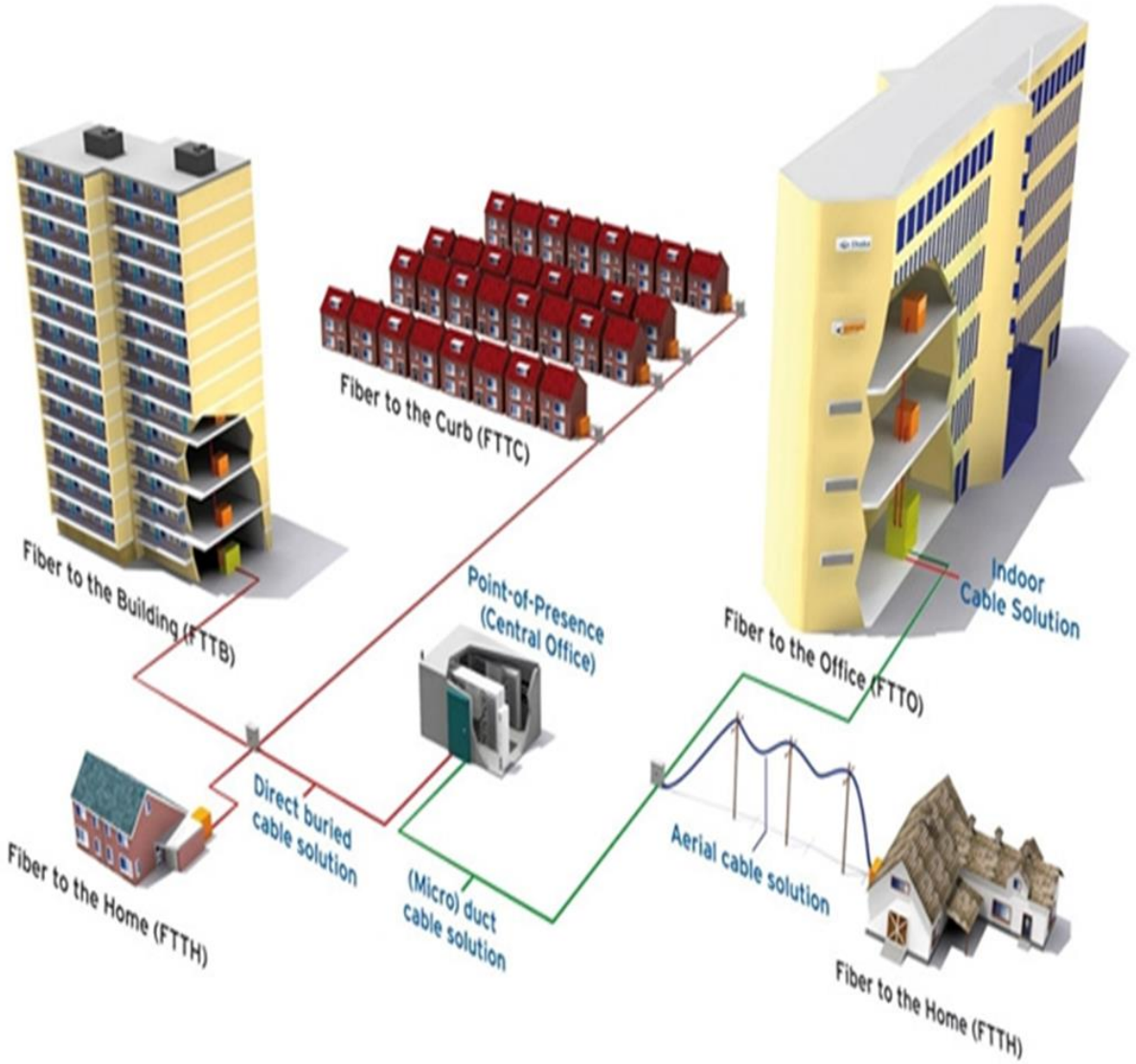
Building our digital society

Photonics for a secure and resilient IT infrastructure

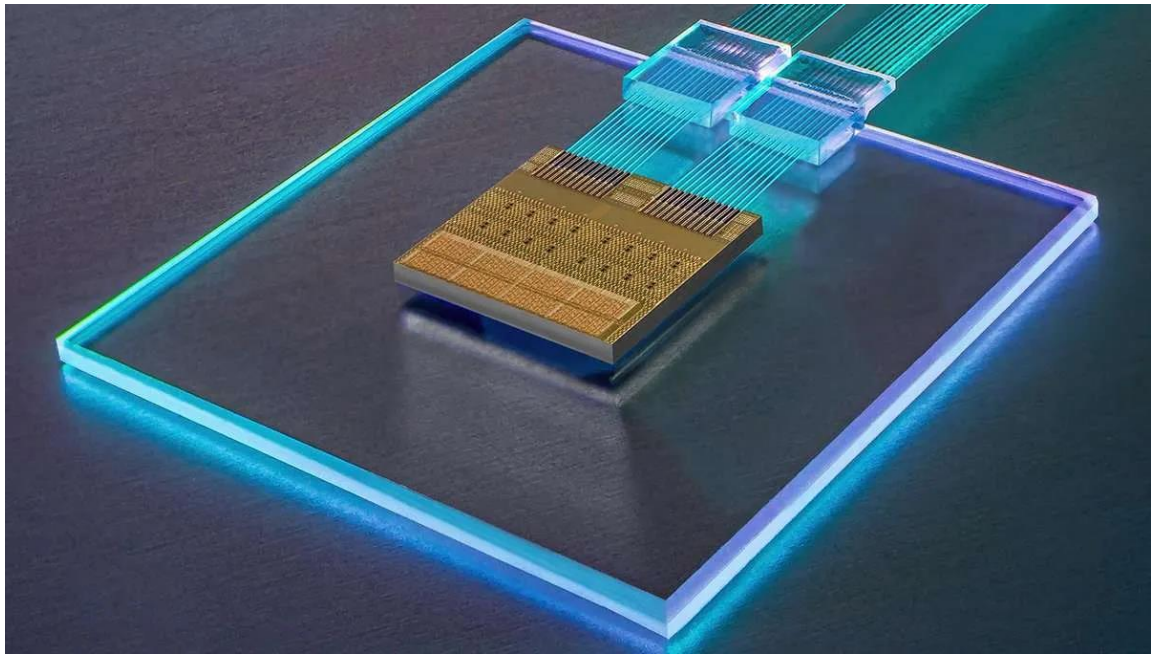
Optical fibers support unlimited bandwidth for streaming and videoconferencing



FTTH is leading to unprecedented bandwidth and connectivity

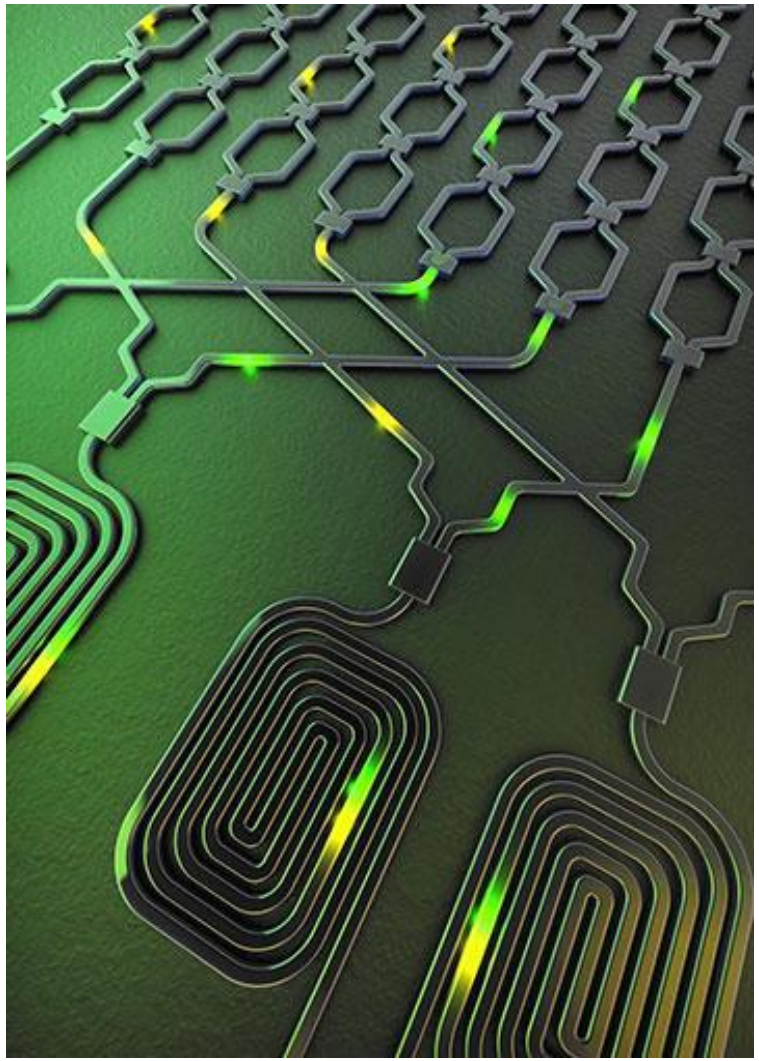


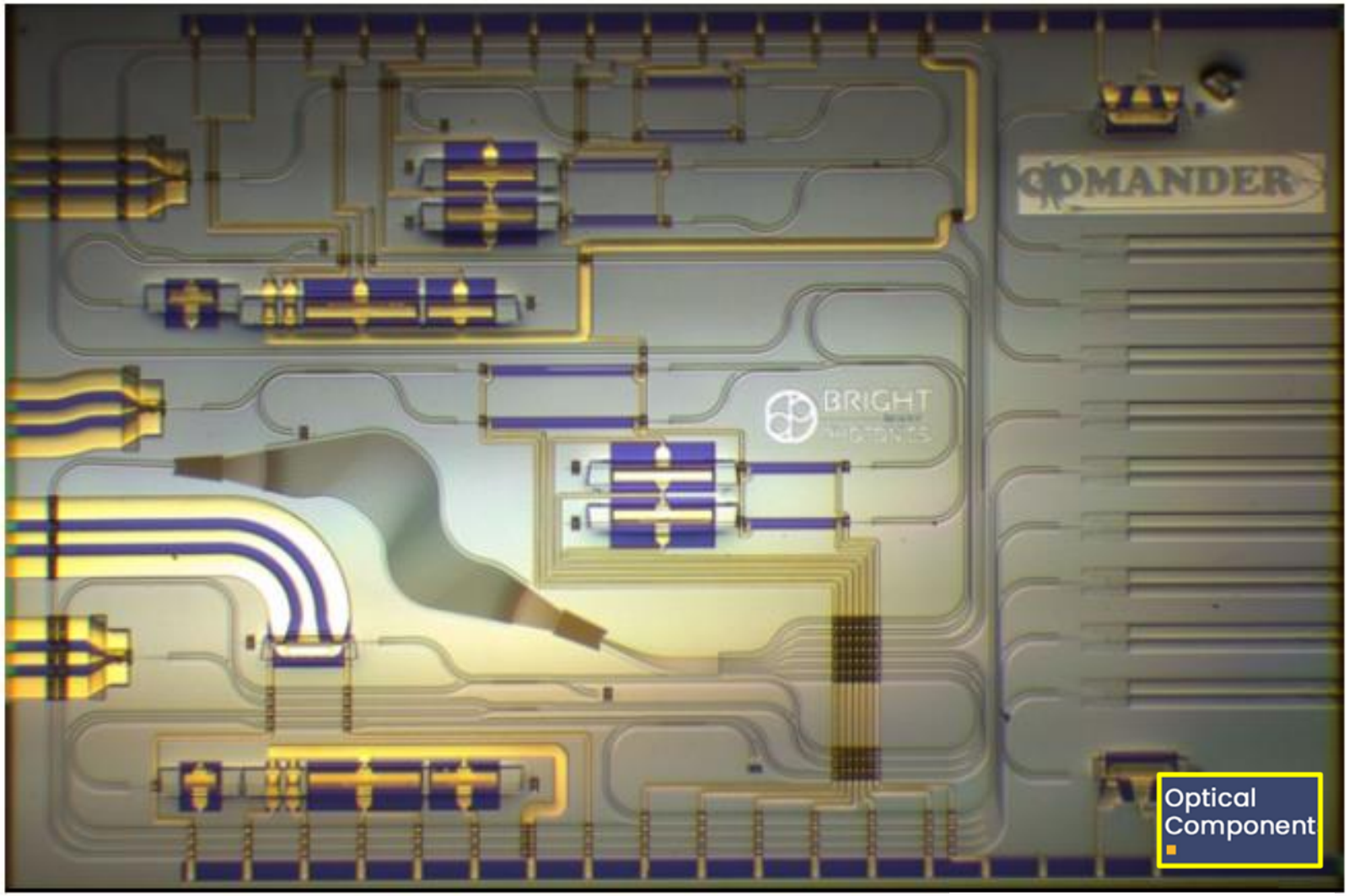
At the heart of these ultrafast optical datacom systems are optical transceivers and switches



COMMSCOPE®

In the near-future signal processing and switching will be performed optically on photonic integrated chips





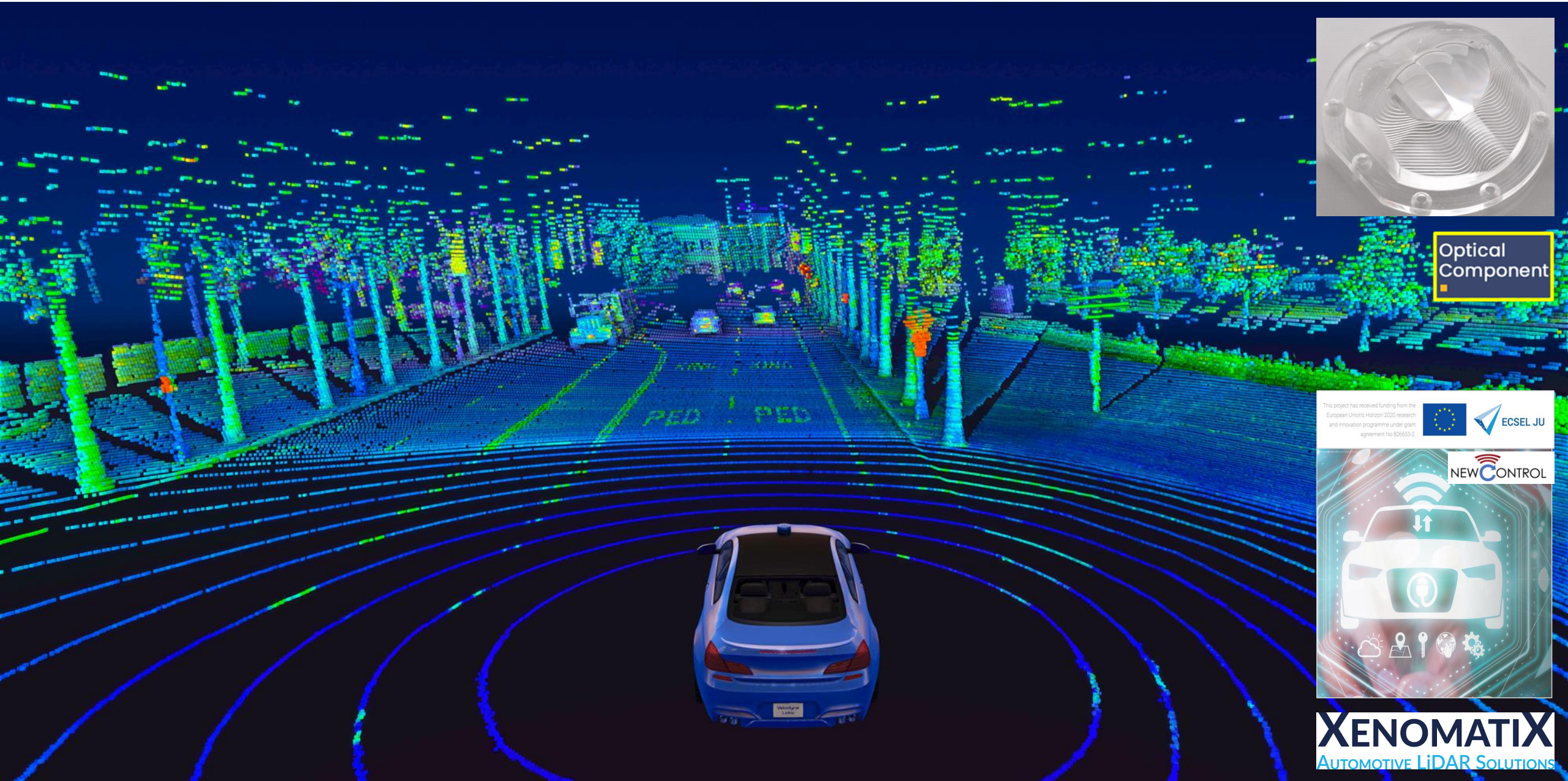
LUCEDA PHOTONICS

Keep our traffic flowing
Photonics for connected mobility

Photonic sensors are ubiquitous in cars and contribute to safety and comfort

Optical sensors and cameras capture essential data and images that are clearly shown on displays integrated in the dashboard of the car

Light detection and ranging “LIDAR” forms the basis of autonomously driving cars



Optical Component

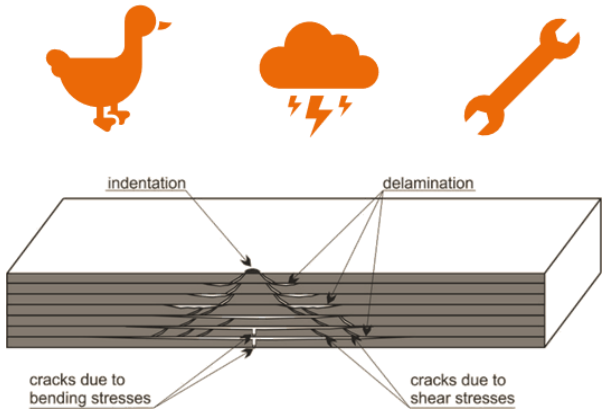
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826653-2

ECSEL JU

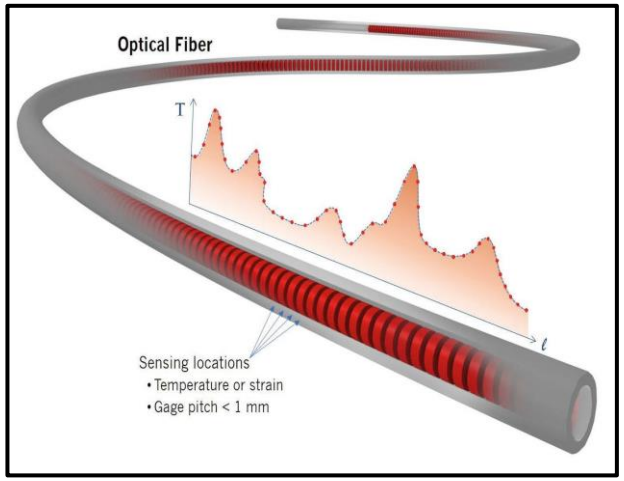
XENOMATIX
AUTOMOTIVE LiDAR SOLUTIONS

Optical fiber sensors can monitor structural damage in modern airplanes making flying safer, more energy-efficient, and less polluting

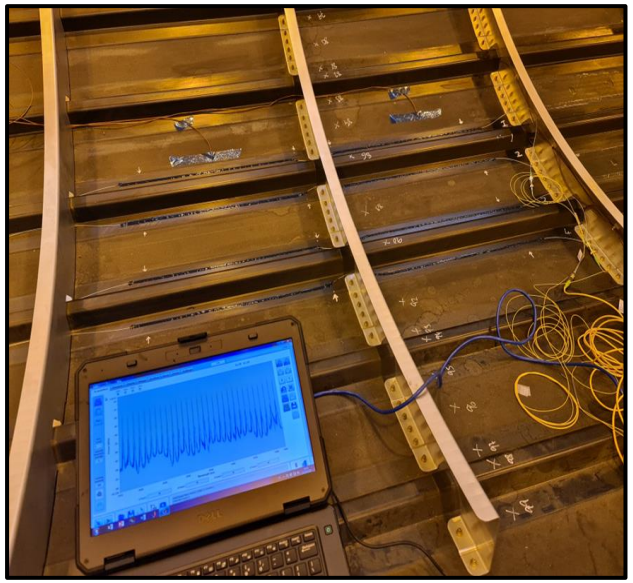
airplanes composed of 50 % composite materials

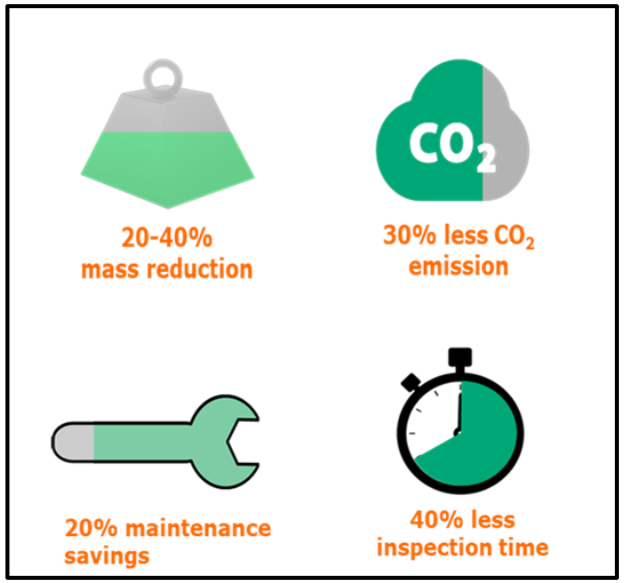


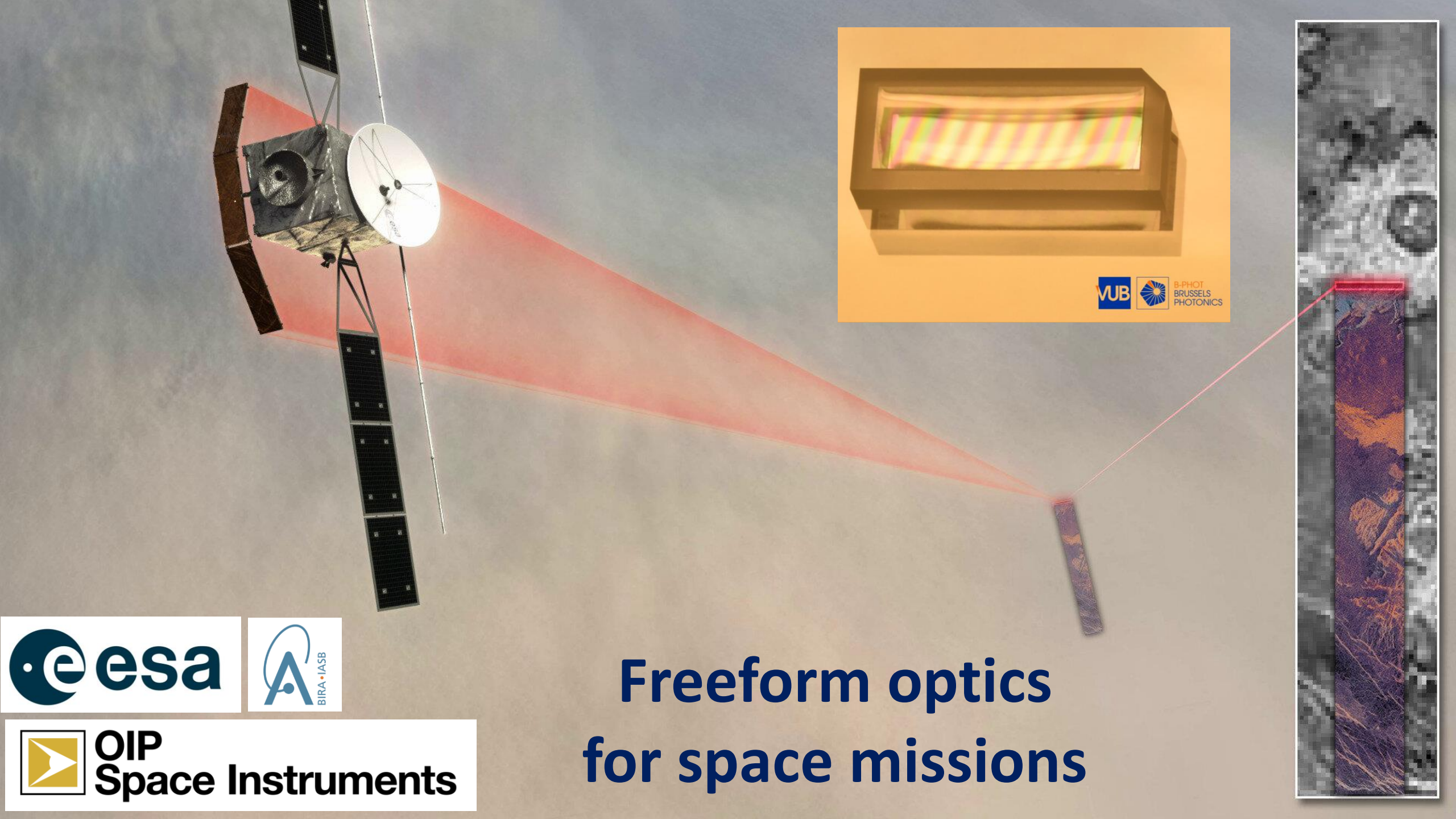
detection of barely visible damage



by embedding optical fiber sensors

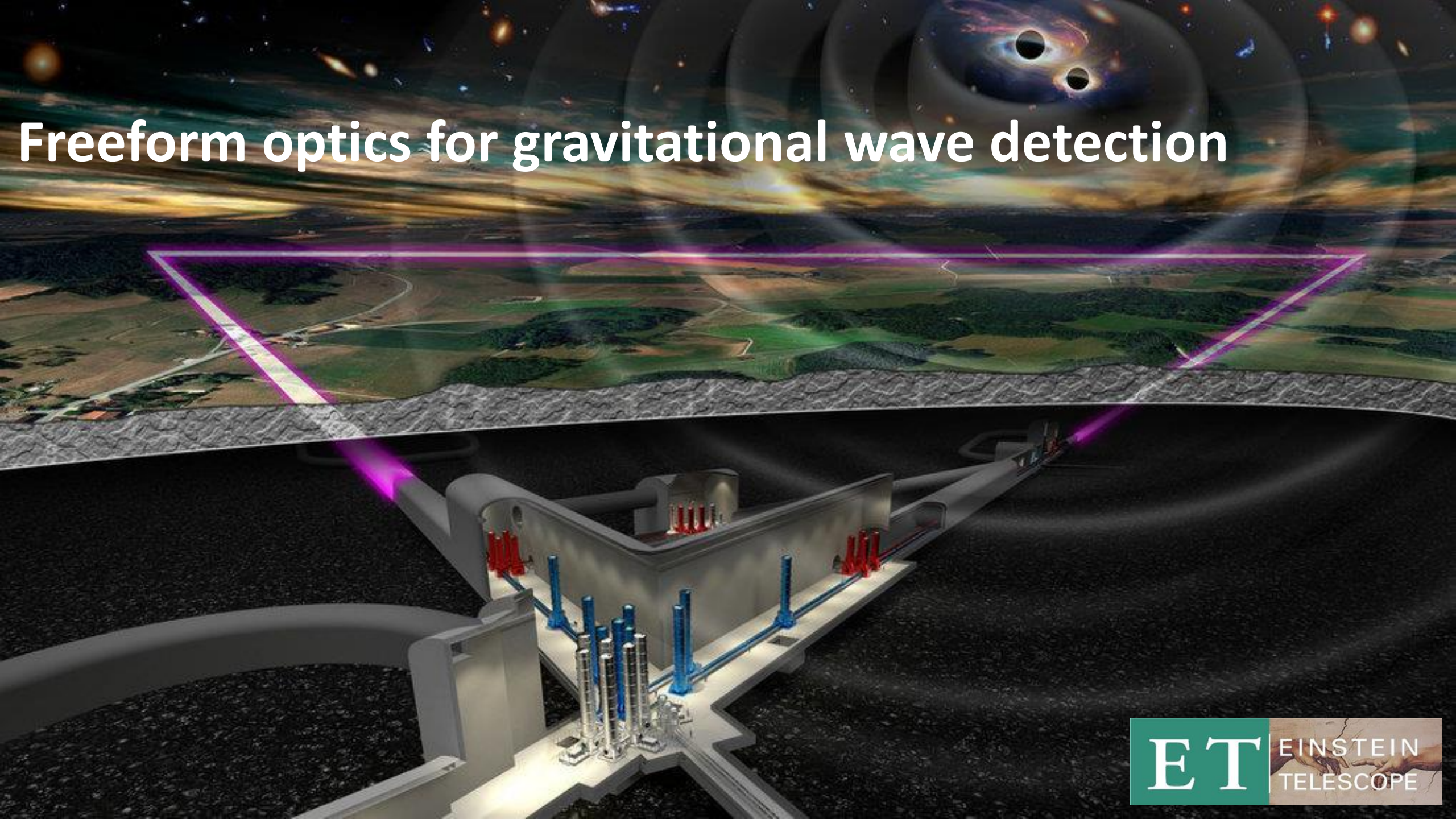






Freeform optics for space missions

Freeform optics for gravitational wave detection



Photonics innovation show-stoppers for companies

Access to photonics expertise and experts

in-house photonics experts and expertise are missing

supporting in-house photonics R&I is too expensive

identifying external experts is time-consuming and inefficient

Access to photonics technologies and platforms

in-house cutting-edge photonics technology is missing

investment risk is too high or financially irresponsible

multiple-stop technology shopping fails partial solutions are often incompatible

PhotonHub Europe

PhotonHub is here to help

We guide European companies through every step on their photonics innovation journey

PhotonHub Europe

Introduction to PhotonHub Europe

Prof. Hugo Thienpont, VUB

PhotonHub Europe Coordinator

HAMAMATSU

PHOTON IS OUR BUSINESS

HAPI CHAIR

HAMAMATSU APPLIED PHOTONICS INNOVATION

VUB

B-PHOT
BRUSSELS
PHOTONICS

20 years of EU-wide networking, integration, access and pilot line efforts created a solid basis for a one stop-shop photonics DIH

ACT MOST — Access to Micro-Optics Expertise, Services & Technologies

2011-2013

ACT PHAST — Access Center for Photonics Innovation Solutions And Technology Support

2014-2018

ACT PHAST4.0 — Photonics Innovation Incubator

2017-2022

ACT PHAST4R — Photonics Technology Access for Researchers

2019-2023

ePIXfab

JePPIX

MPW TriPleX™ service

photonics 4 life

2008-2012

JePPIX Pilot Line

Phabulous

MIRPHAB — ENABLING CHEMICAL SENSING

MedPhab — Photonic Medical Devices

PIX4life

PIXAPP — Photonic Packaging Pilot Line

LYTEUS — Flexible light

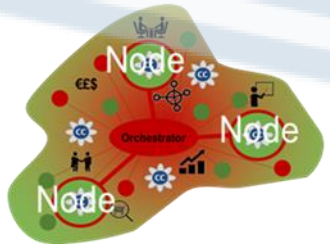
2015-2022

NEMo — Network of Excellence on Micro-Optics

ePIXnet

PhOREMOST

2004-2009



PhotonHub Europe®

2021-2025 and beyond

Creating Technology Platforms	Provide Access Support SMEs	Combine Access Centers	Create Pilot Lines	Access for Researchers	Include Local Phot Hubs	Create Pan-European DIH

B-PHOT
BRUSSELS
PHOTONICS

AT THE FRONTIERS OF **PHOTONICS**

A key digital technology that uses the unique properties of light to innovate.

Photonics research

Industrial innovation

Cutting-edge technologies

Education & STEAM

B-PHOT's supply chain from fundamental to applied research

targets collaborative industrial innovation

TRL1	TRL2	TRL3	TRL4	TRL5	TRL6	TRL7	TRL8	TRL9

Fundamental Research and Disruptive Breakthroughs

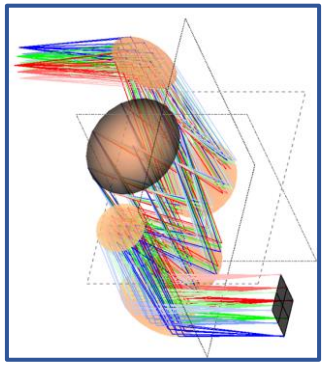
Applied Research, Prototyping and Demonstration

Up-Scaling Pre-production Industrial Innovation Tech Transfer

Commercialization

Collaboration with and tech transfer to industry

B-PHOT's photonics pilot line is the main driver for its innovation success




OPTICS & PHOTONICS MODELLING

First-time-right Design for manufacturing

PROTOTYPING

Two-photon polymerization laser direct writing

5-axis high-precision micromachining & grinding

5-axis Ultra-precision diamond tooling

7-axis ultraprecision polishing (bonnet & fluid jet polishing)

Femtosecond laser direct writing

REPLICATION

Hot embossing

(Micro-)injection moulding

Glass Press Moulding

POLYMERS

GLASS

METROLOGY

(ISO Class 7 cleanroom)

Surface profiling
CMM
Full-field interferometry
Polarimetry
Scatterometry
Spectroscopy
Microscopy

Proof-of-concept demonstration

VUB B-PHOT BRUSSELS PHOTONICS

B-PHOT
BRUSSELS
PHOTONICS

FREEFORM OPTICS PILOT LINE FACILITIES

B-PHOT
BRUSSELS
PHOTONICS

FREEFORM OPTICS PILOT LINE FACILITIES

METROLOGY CLEAN ROOM

DEMONSTRATION LABORATORIES

PhotonHub Europe®

COMPANY TESTIMONIAL

Wines of Crete
A sense of place

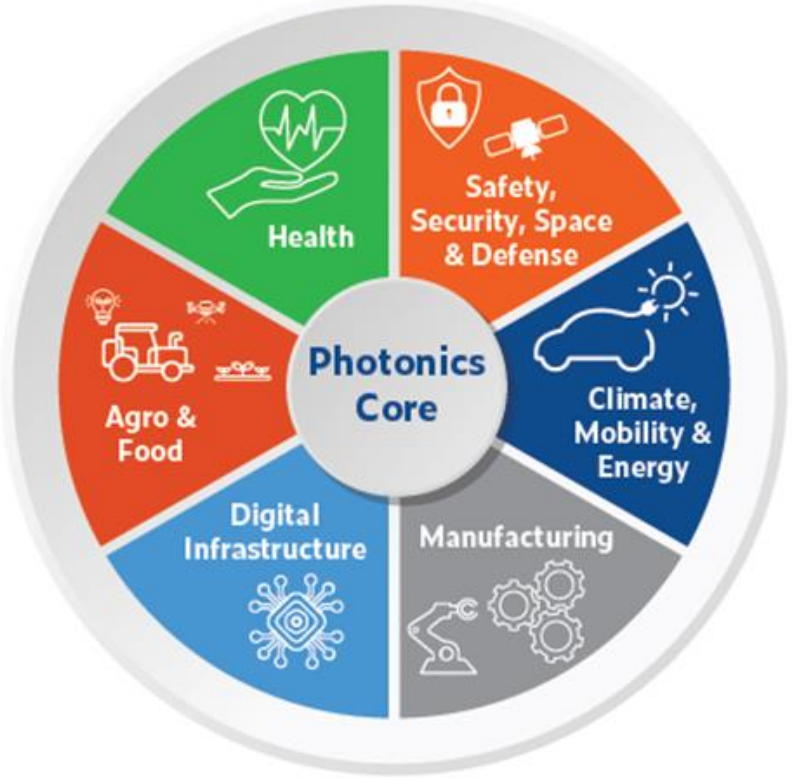
winery Diamantakis

PHOTONICS21
PHOTONICS PUBLIC PRIVATE PARTNERSHIP

PHOTONICS IN AGRICULTURE & FOOD

Photonics

Driving innovation across all industry domains

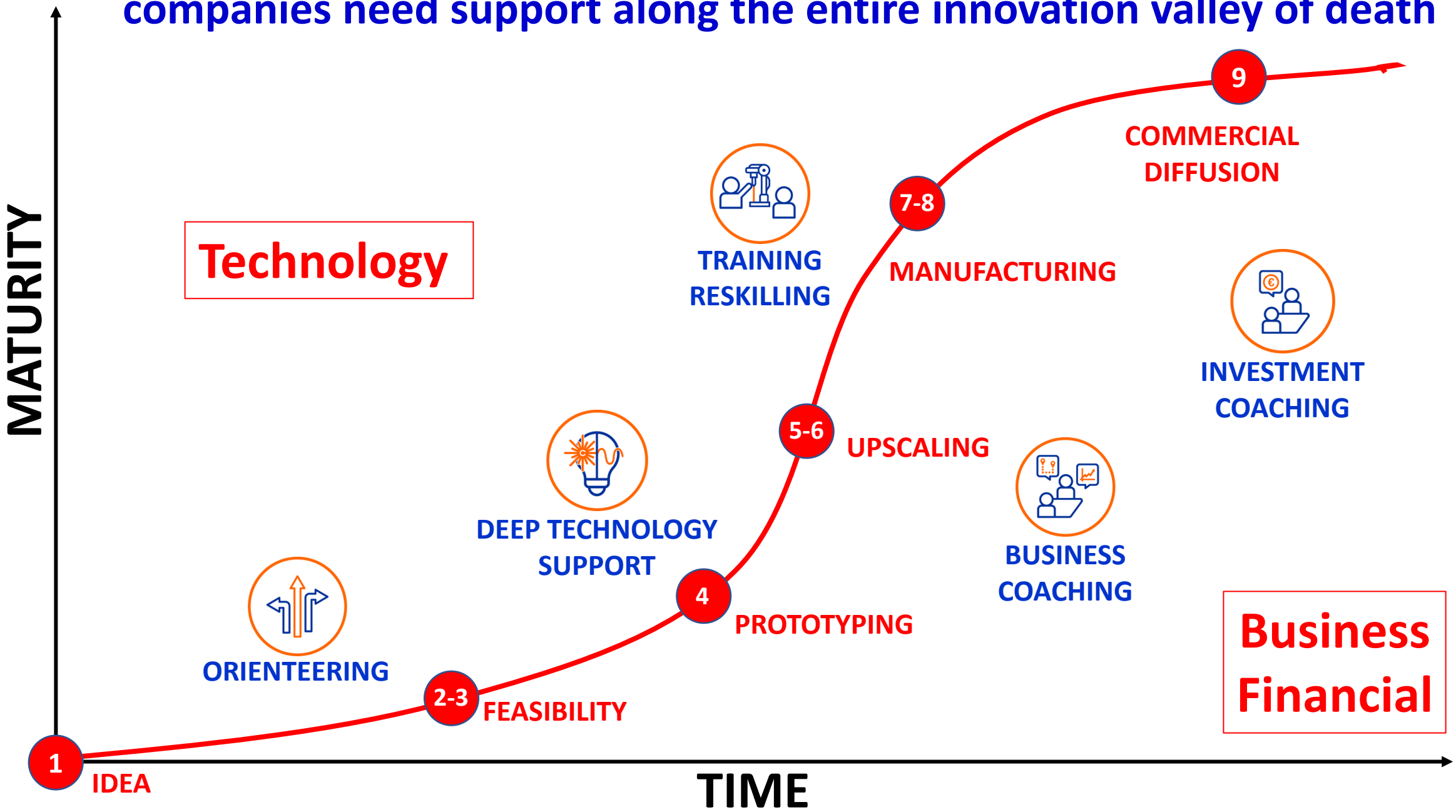


PhotonHub Europe®

PHOTONICS PUBLIC PRIVATE PARTNERSHIP

PHOTONICS21

To successfully innovate with photonics companies need support along the entire innovation valley of death



PhotonHub Europe®

PHOTONICS INNOVATION HUB FOR EUROPE

A Pan-European One-Stop-Shop Photonics Innovation Hub

PhotonHub Support Activities

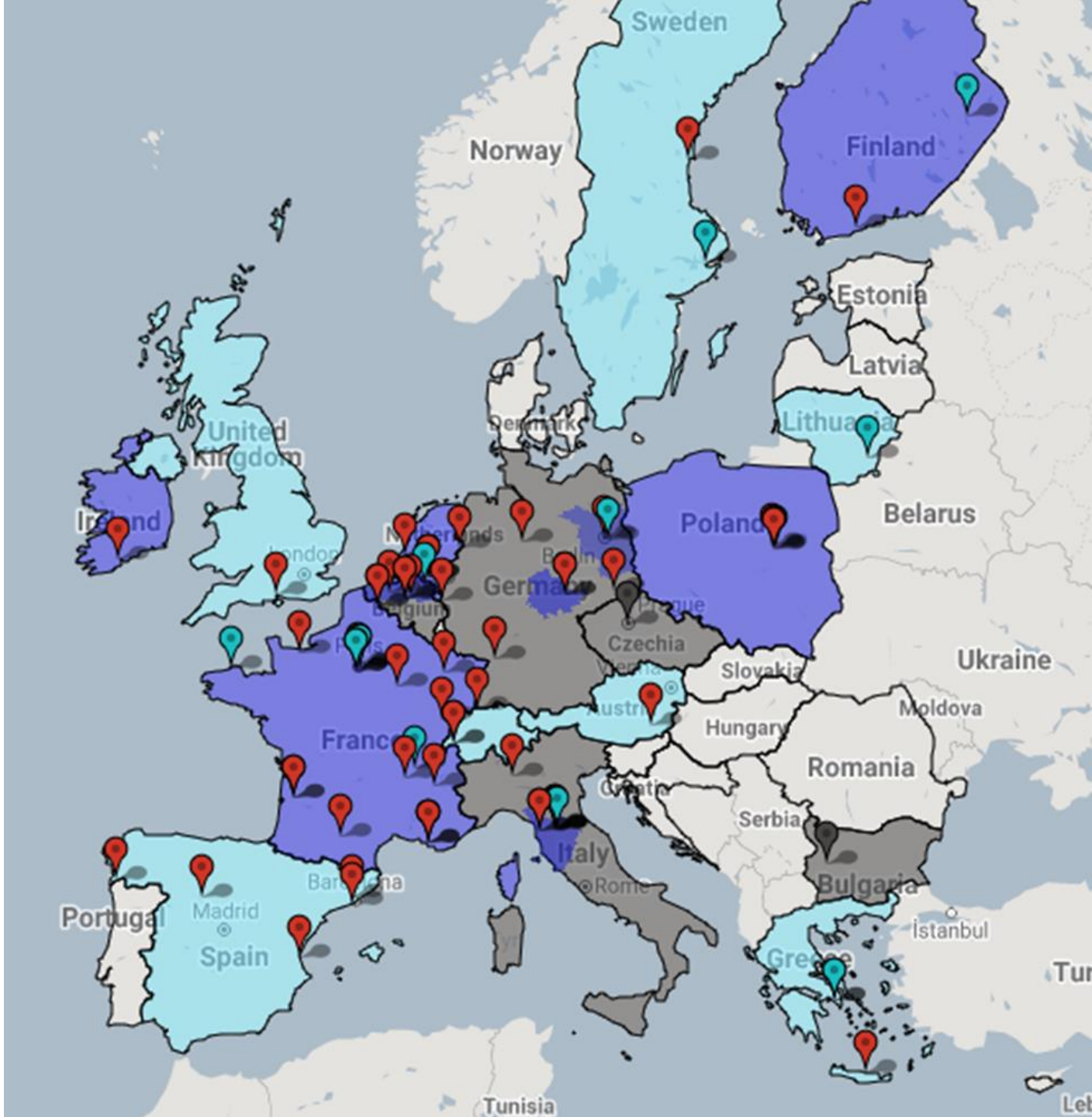
1 Jan 2021 – 30 April 2026
19 M EUR

PHOTONICS 21

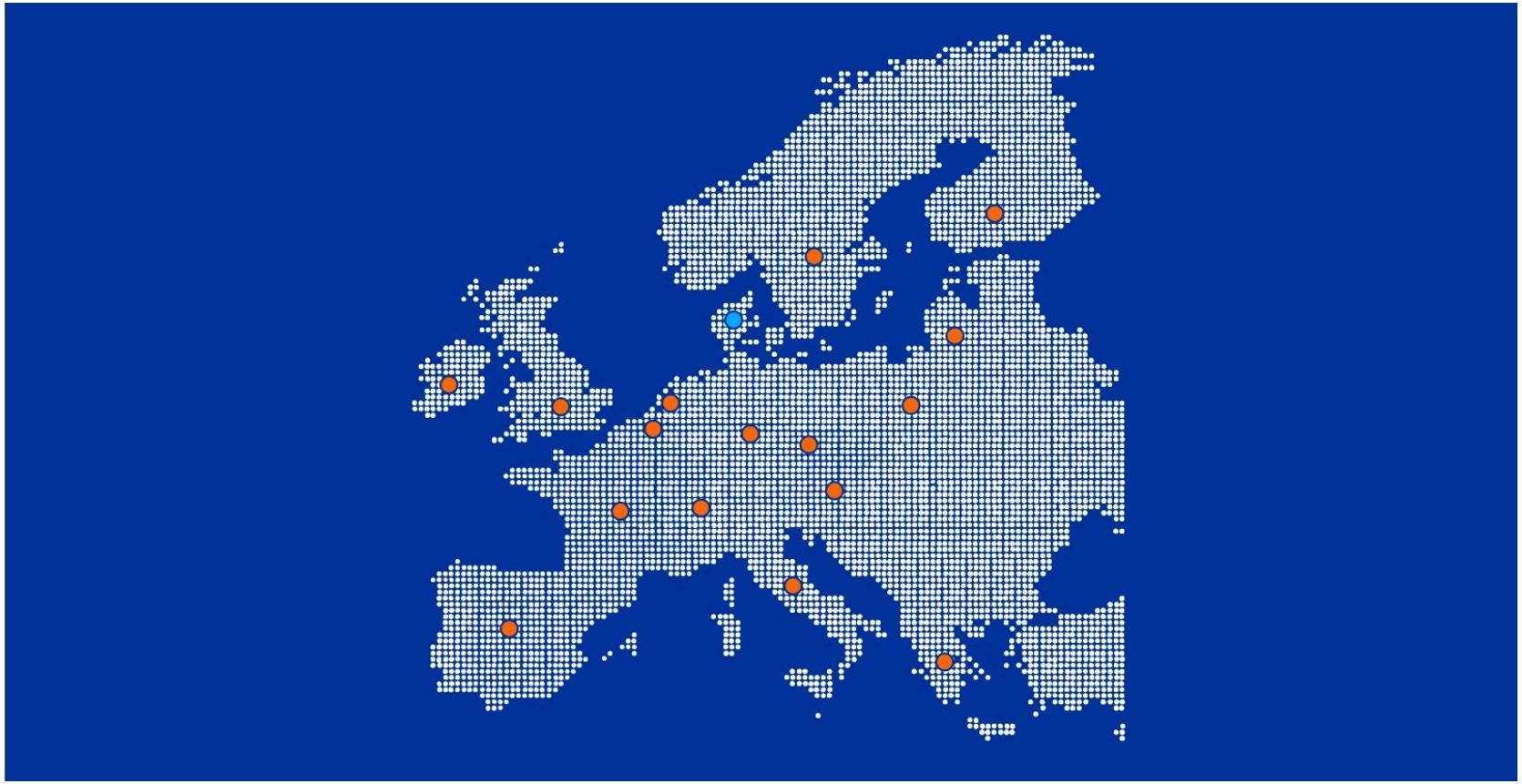
PHOTONICS PUBLIC PRIVATE PARTNERSHIP

PhotonHub Europe®

57 partners
400+ experts
16 member states

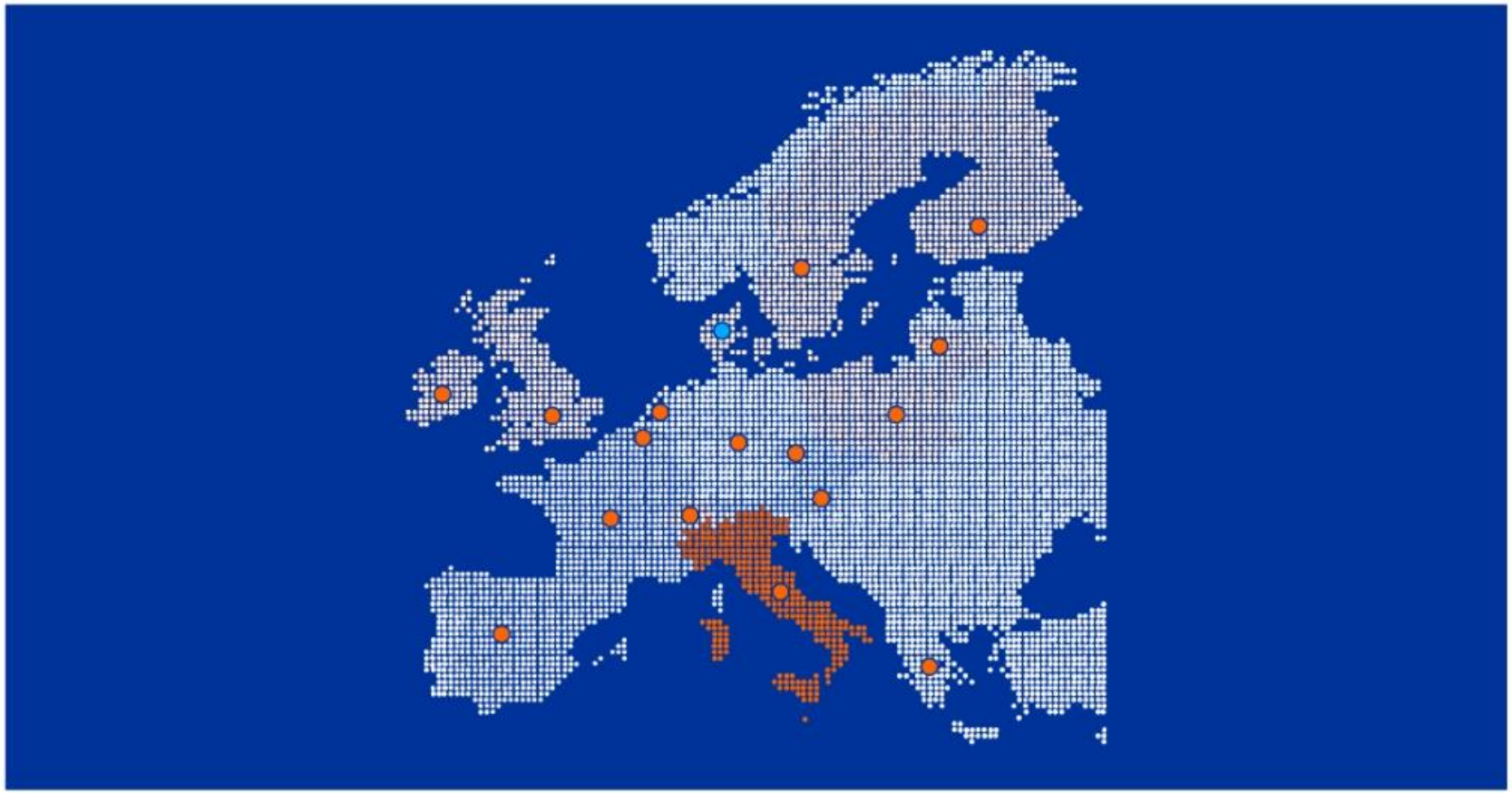


Our partner network



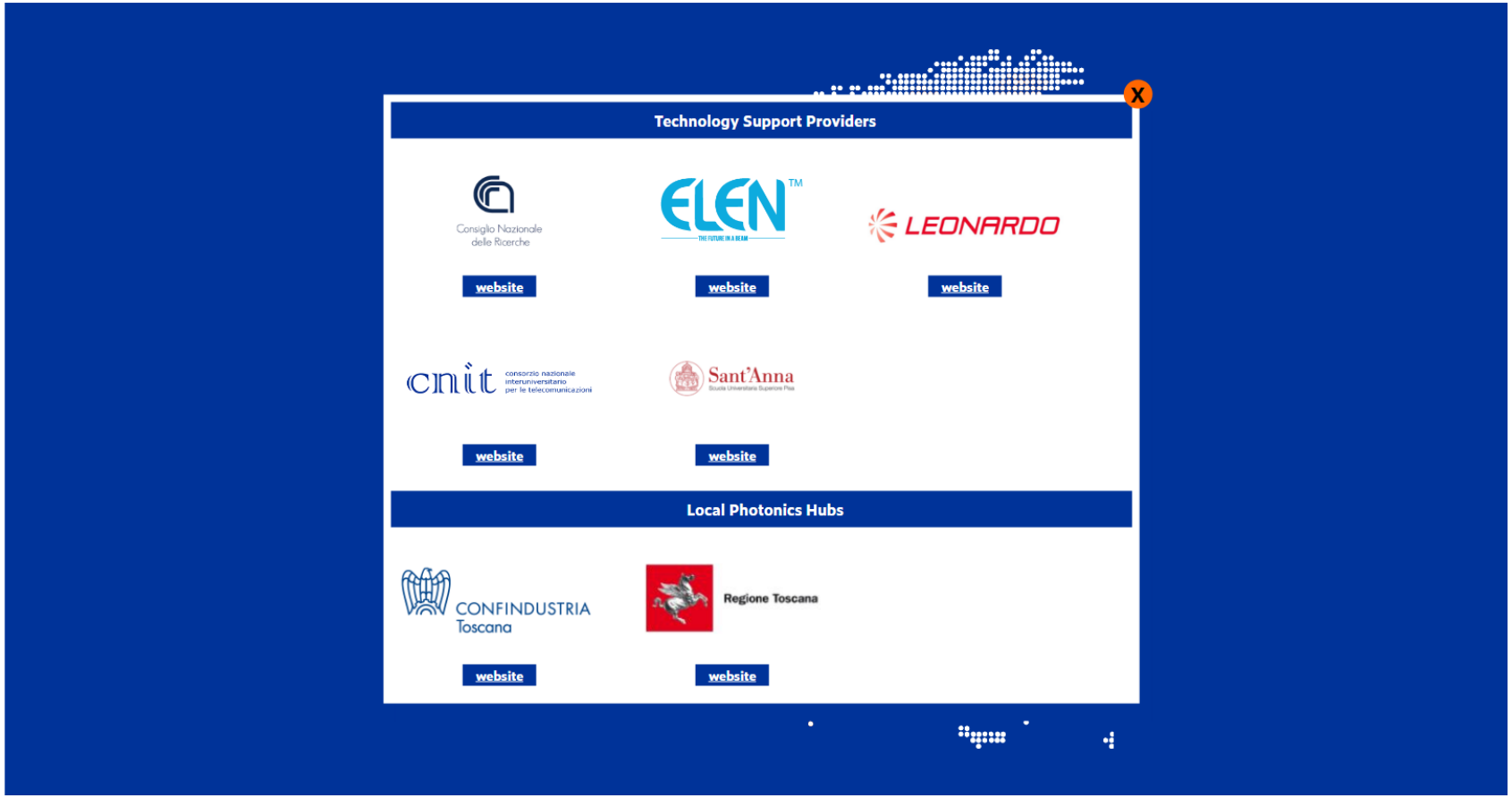
PhotonHub Europe

Our partner network



PhotonHub Europe

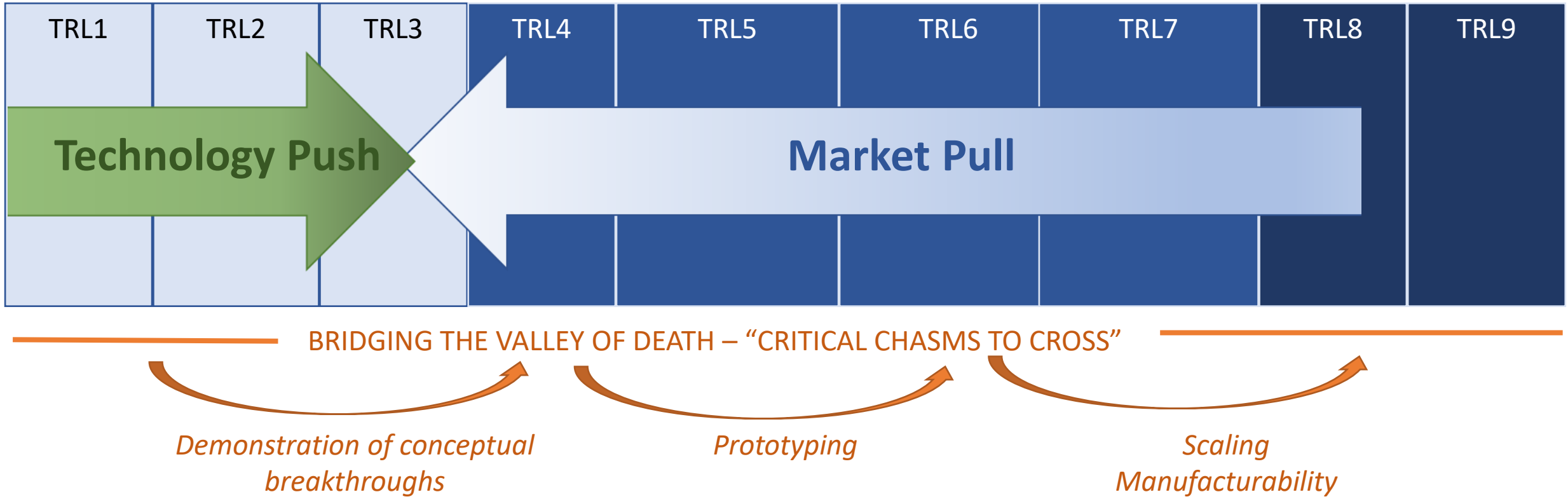
Our partner network



PhotonHub Europe

Listen to the challenges of the companies

Demand driven - No Technology Push



PhotonHub 3 step action plan to photonics innovation

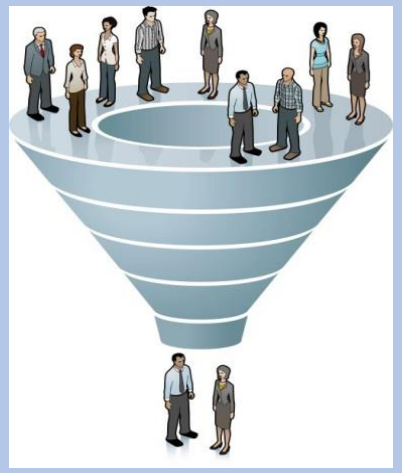
OUTREACH TO COMPANIES
FROM
VARIOUS INDUSTRY SECTORS

ORIENTEERING

TECHNOLOGY SCOUTING
BUSINESS SCOUTING

EVALUATION PROCESS

DEEP INNOVATION SUPPORT



CUSTOMER SATISFACTION
IMPACT MEASUREMENT

Deep technology support happens through heavily subsidized projects

Dedicated task forces with some of the best EU experts

Supported by key photonics platforms

PhotonHub Europe®

Photonics deployment acceleration

More than 400 top experts available for support
140 trained for scouting and/or project leadership

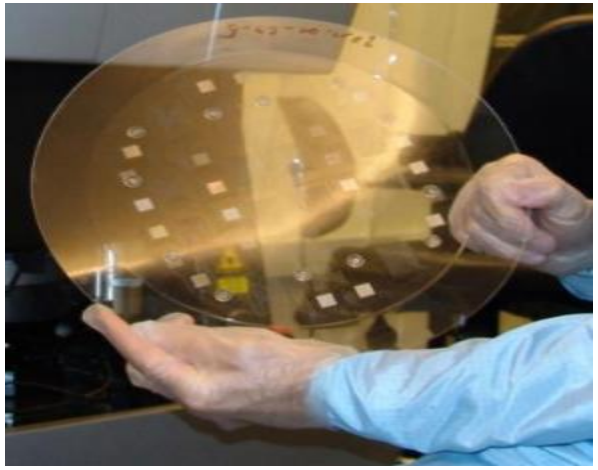
Experts database

on the intranet portal

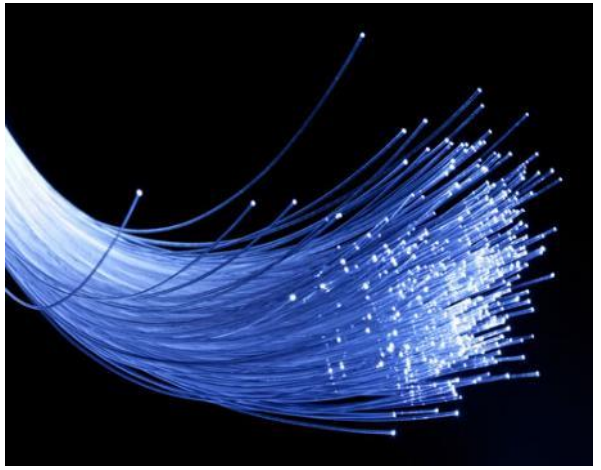
- Up-to-date profile Technical & application-oriented expertise
- Industrial collaboration experience
- Role in PhotonHub:
  - ✓ Scout
  - ✓ Project Leader
  - ✓ Technology Support Expert
  - ✓ Business Support Expert

Prototyping Innovation Support Offered by 8 Platforms

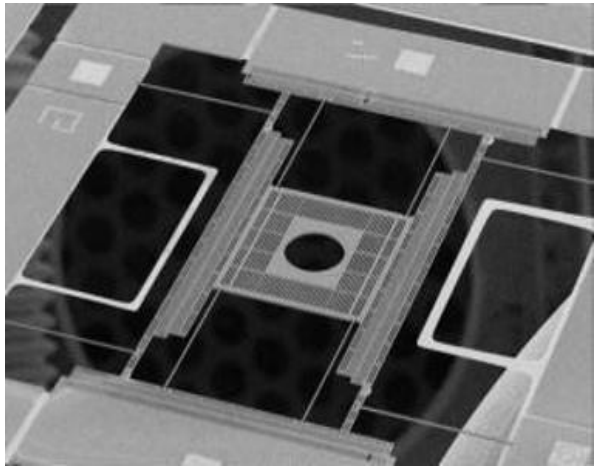
Laser-based manufact.



Polymer-based optics

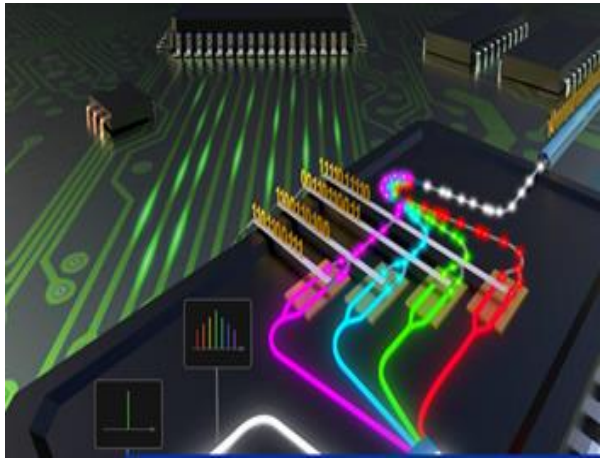


Specialty fibers

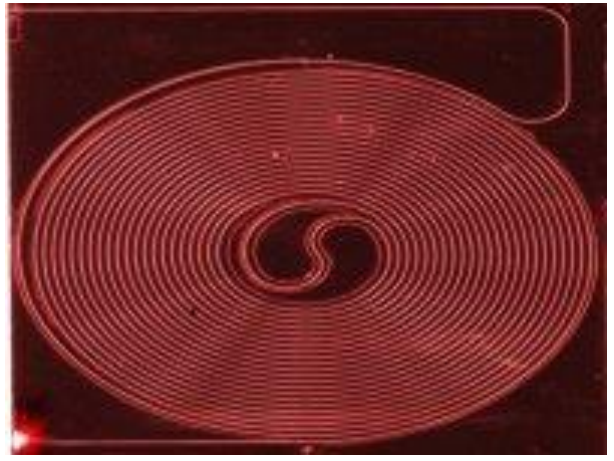


MOEMS

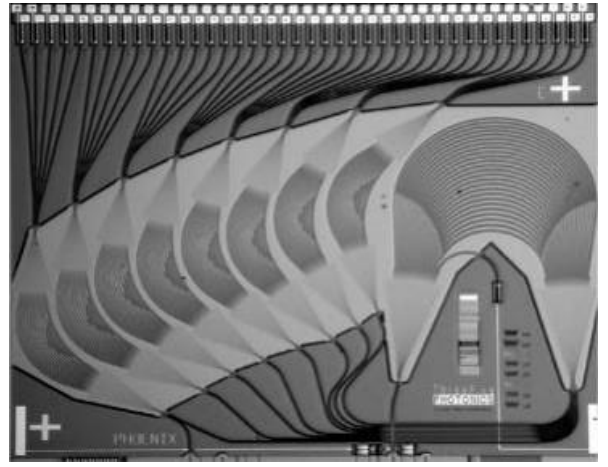
Free-space optics



LNOI–PICs



Si/SiN PICS



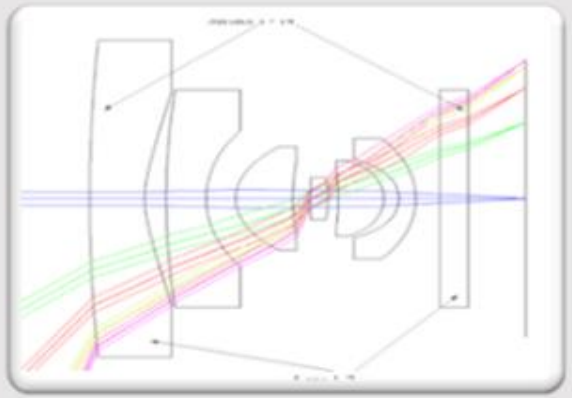
InP –PICs

Each technology platform supports the full supply chain from design to prototyping

Platform 2
Prototyping and Manufacturing

Platform 3
Metrology and Quality Control

PhotonHub Europe



Platform 1
Modelling and Design

Platform 4
Proof-of-Concept Demonstrators and Industrial Prototypes

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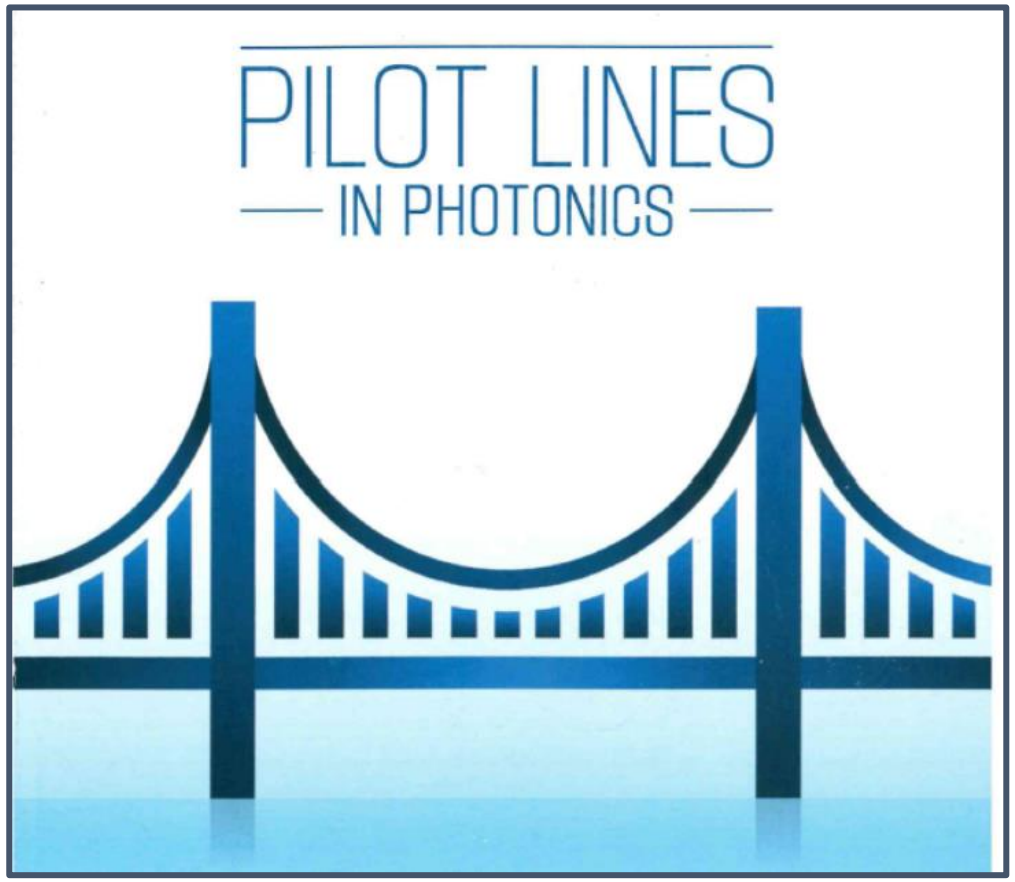
Gateway to EU Pilot Lines for upscaling financially supported for first users and early adopters



PIXAPP Photonic Packaging Pilot Line

JePPIX Pilot Line

ePIXfab

LYTEUS Flexible light

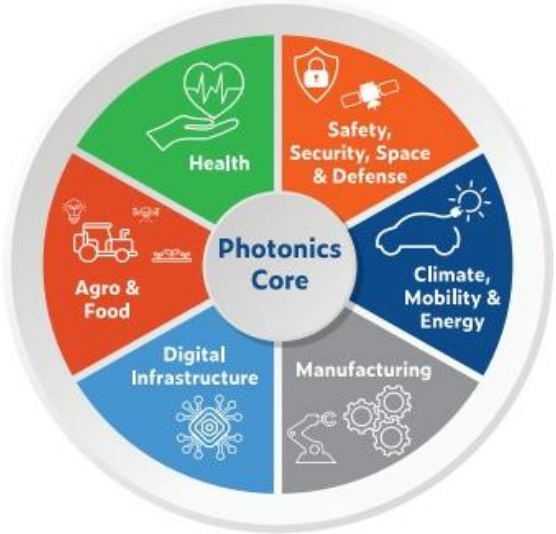
MIRPHAB ENABLING CHEMICAL SENSING

MedPhab Photonic Medical Devices

PIX4life

Phabulous

Photonics
Driving innovation across all industry domains



Start your photonics innovation journey with our support

PhotonHub Europe

CUSTOMISED BENEFITS TO YOUR COMPANY

ONE-STOP-SHOP
Full supply chain of cutting-edge photonics platforms

TOP EXPERTS
We select the partners that can best serve your company needs

SEAMLESS SUPPORT
All the way from concept to manufacturing (TLR3-8) through multiple follow-on projects

CONCRETE RESULT
TRL advancement of 1 to 2 TRL levels

FASTER TO MARKET
Duration of project: 6-9 months

GET STARTED!
PHOTONHUB.EU

Free initial assessment by top experts
for European SMEs

Strongly
SUBSIDISED PROJECTS

* max. € 100k subsidised

TRL 3-4: PROTOTYPE LEVEL

Total innovation project budget		Subsidised for SME		Cash contribution of SME
€ 50.000	▷	€ 45.000	✚	€ 5.000
€ 70.000	▷	€ 60.000	✚	€ 10.000
€ 90.000	▷	€ 75.000	✚	€ 15.000
€ 110.000	▷	€ 90.000	✚	€ 20.000
€ 125.000	▷	€ 100.000*	✚	€ 25.000

For Large Scale Companies:
50% subsidised (max. total budget: €200.000 of which €100.000 subsidised)

TRL 5-6: UPSCALING LEVEL

- 50% subsidised for early adopters & first user SMEs (only for EU-based!)
- Maximum budget of €500.000 of which €250.000 subsidised

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PHOTONICS PUBLIC PRIVATE PARTNERSHIP

HOW TO START?

1 SELECT THE SERVICES OF INTEREST AND REGISTER ONLINE

Prototyping
Upscaling
Manufacturing
Training & Reskilling
Business & IP Coaching
Investment Coaching

PHOTONHUB.EU

Scan to register!

V1 | 05.22

2 TECHNOLOGY ORIENTEERING

We will contact you to discuss your photonics innovation ambition and determine the right technology approach & partners for you. This discussion will take place under NDA.

3 INITIAL EXPERT ASSESSMENT

In-depth face to face meeting with the appointed experts covering both technical and business aspects followed by a report including the recommended next steps. (Typically, 2 weeks to complete this step)

4 PROJECT PROPOSAL

PhotonHub appoints a project leader to work with you in preparing and submitting your customised innovation project proposal covering tasks, milestones, deliverables, budget, and IP ownership. (Typically, 1-2 months to complete this step)

5 PROJECT EVALUATION

The PhotonHub Evaluation Team reviews and scores your proposal in accordance with the evaluation criteria* . You will be invited to participate online to address any questions and will receive a formal evaluation report within one week. Possible outcomes are: granted; approved pending resubmission with modifications; or cancelled. (Evaluation meetings every 2 months) ** available at photonhub.eu*

6 CONTRACT SIGNING AND KICK-OFF

Once granted, an innovation project agreement is signed by your company and all of the partners involved. The project kicks off and you are on your way!

Support European Companies to Find Investment

Investment Coaching

PhotonHub Europe

Investment Readiness Program Digital Platform

First-Level Investment-Readiness Coaching for Companies Deploying Photonics Technologies

Intensive Investor Pitching and Matchmaking Support for High-Potential Start-Ups and Scale Ups

TechTour digital Photonics

European Photonics Venture Forum

PHOTONICS21 PHOTONICS PUBLIC PRIVATE PARTNERSHIP

Running the "European Photonics Venture Forum" for photonics start-ups and scale-ups

FundingBox

Running the "Investor Days" for photonics-enabled start-ups and scale-ups

European Photonics Innovation Academy: Skills and Training

Training and Reskilling

PhotonHub Europe

Demo Centres

1 DAY on-site training programme
32 demo centres each focusing on a selected photonics application domain

- **Photonics in Sensing**
- **Photonics in Manufacturing**
- **Photonic Integrated Circuits**
- **Photonics in Datacom**
- **Photonics in Food Safety**
- **Optical Coating Technologies**

and more

Experience Centres

3 DAY on-site training programme
9 photonics technology centers with a focus on hands-on experience

- **Freeform Optics**
- **Photonics Packaging**
- **Photonic Integrated Circuits**
- **Optical Fibre Manufacturing**
- **Laser Based Manufacturing**

and more

Freeform Optics Experience Centre

VUB B-PHOT BRUSSELS PHOTONICS

PhotonHub Europe®

COMPANY TESTIMONIAL

ENVIROPET

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PHOTONICS IN MANUFACTURING

PhotonHub Europe - Key Principles

Innovation driven by business need of companies

Innovation support dedicated to SMEs

Focus on photonics-enabled companies first users, and early adopters from a variety of industry sectors

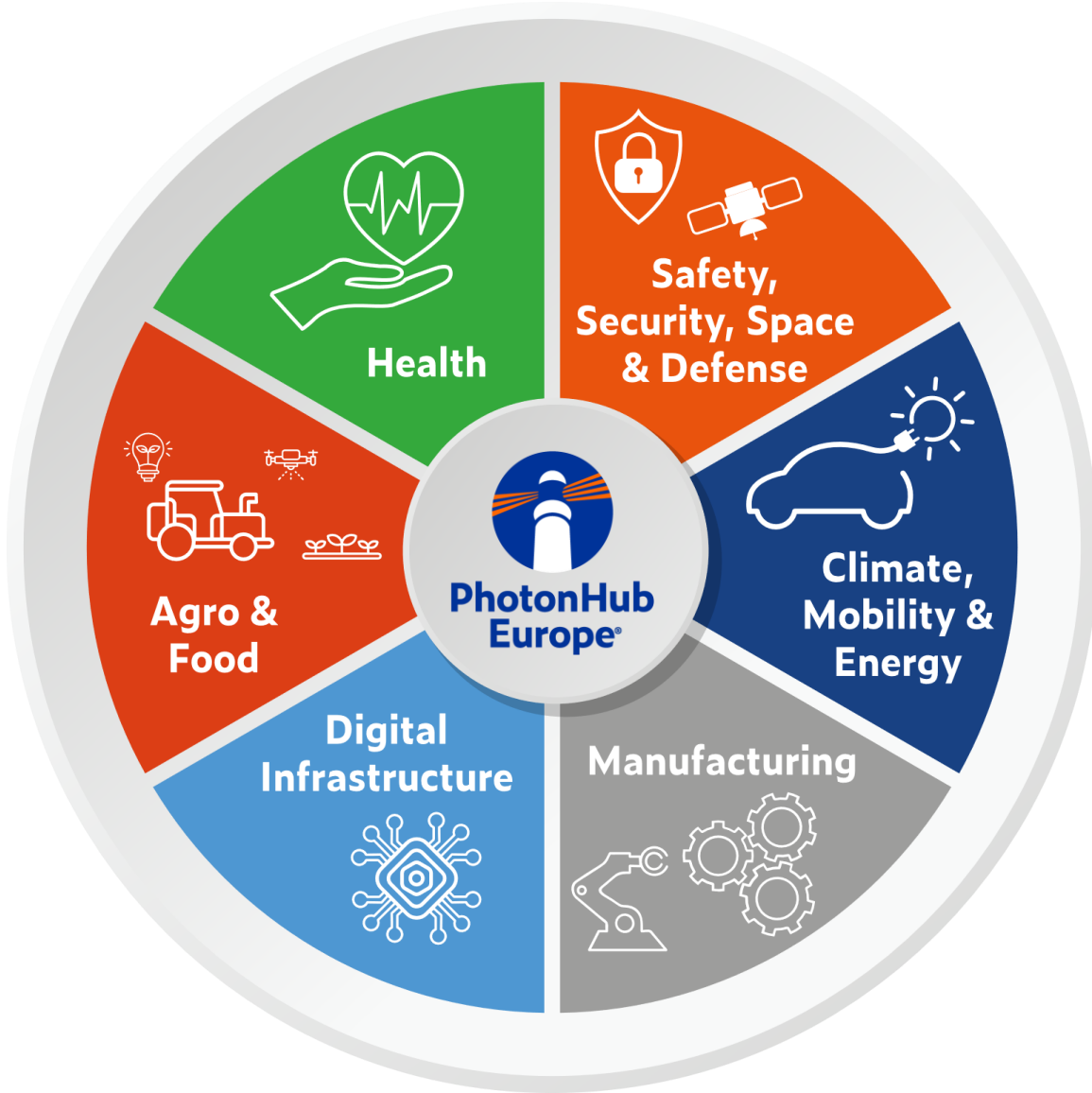
Companies receive innovation support instead of funding

Project funding applies only to cross-border Innovation support

Quantitative KPIs used to measure impact and continuously improve strategy

PhotonHub Europe

A QUANTITATIVE IMPACT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Climate,
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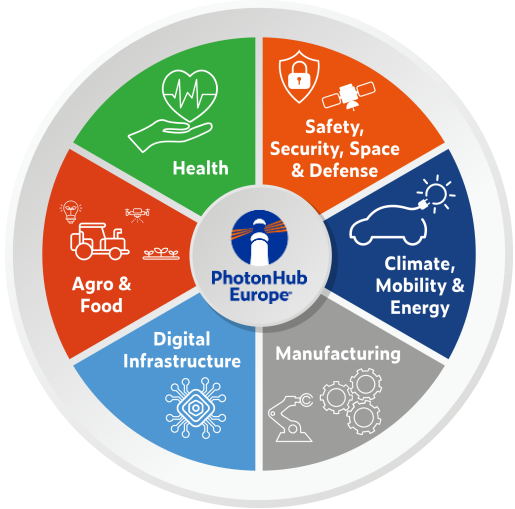
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Safety, Security, Space & Defense
Climate, Mobility & Energy
Manufacturing
Digital Infrastructure
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All Supported Companies

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Genoa Instruments
FIBERSIGHT
CooperVision Live Brightly.
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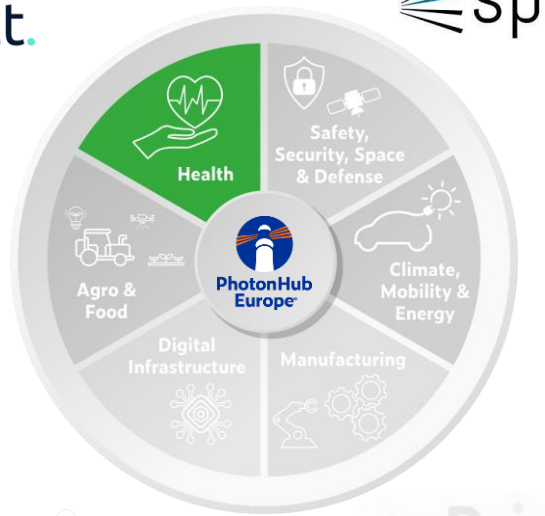

Crocus Labs

PearLabs Technologies Ltd.

feinwerkoptik zünd

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UFS

iPRONICS Programmable Photonics

AMAZEC PHOTONICS

POLARITON TECHNOLOGIES

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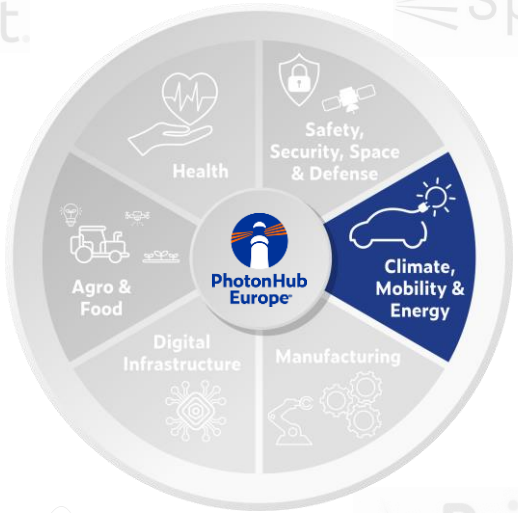

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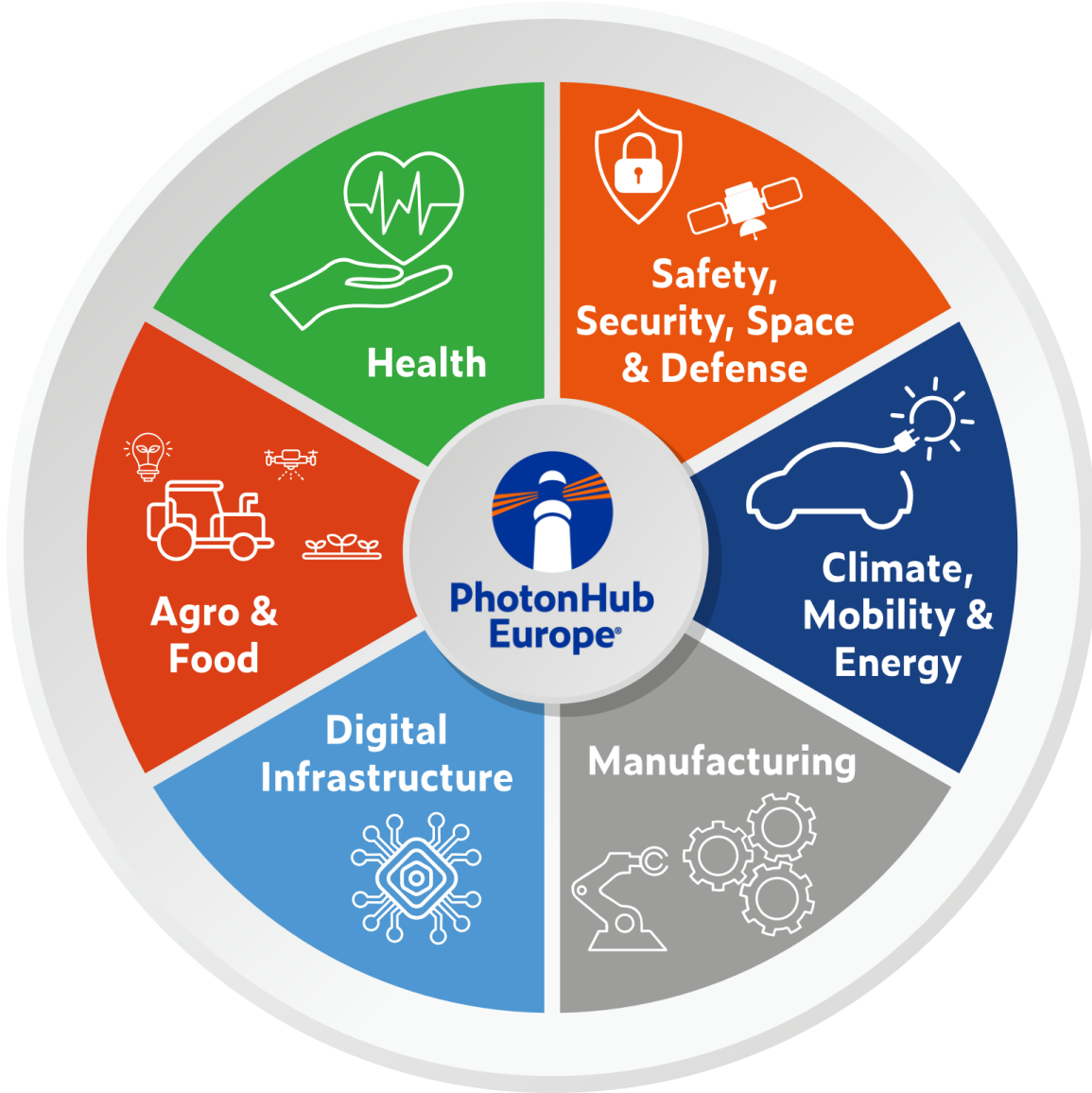
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Manufacturing
Digital
Infrastructure
Agro &
Food
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Examples of companies supported over the years…

A few VC success stories in the press

tech eu

News Topics Insights Summit London 2024

MEDTECH

Dutch medtech startup Amazec Photonics secures seed funding for clinical trials

Amazec Photonics, a Dutch medtech startup, raises €1.5 million for further development of diagnostic devices using photonics-based technology for accurate, non-invasive cardiovascular monitoring.

Hardware

Akhetonics raises capital for its all-optical processor prototype

€2,5 million

Mike Butcher @mikebutcher / 9:06 PM GMT+2 • July 25, 2023

Comment

Pilot Photonics secures large european funding win to develop CPO scaling

PR Newswire

March 25, 2024 · 2 min read

SAN DIEGO, March 25, 2024 /PRNewswire/ -- Pilot Photonics today announced that the company has secured €2.5M from the European Innovation Council (EIC) to develop, integrate and commercialize key technology blocks relevant to a coherent co-packaged optics (CPO) solution to overcome future scaling challenges in the datacentre.

Pilot PHOTONICS European Innovation Council

Pilot Photonics secures funding from the European Innovation Council

EU-Startups

MAGAZINE SUMMIT JOB BOARD INSIGHTS DATABASE ABOUT US CLUB

Home › Funding › Digital health startup iLoF secures €4.89 million to accelerate personalised drug discovery

Funding Portugal-Startups UK-Startups

Digital health startup iLoF secures €4.89 million to accelerate personalised drug discovery

By Patricia Allen July 28, 2022

iPronics raises €3.7 Million to accelerate the adoption of programmable photonic chips

27th July 2022

iPronics chips open the door to commercial applications that require faster computation, lower power, cost-effective solutions such as 5G, data centres, and real-time deep learning.

Valencia, Spain – iPRONICS, the pioneering photonic computing company that has developed the first general-purpose photonic processor that is reconfigurable by software, today announced a €3.7M investment led by Amadeus Capital Partners, with participation from Caixa Capital Risc.

Emerging technology trends in autonomous vehicles and LIDAR, 5G signal processing, deep learning and AI, cyber security, DNA sequencing, and drug discovery require much faster, more flexible, power-efficient computation.

High Impact over the last 4 years
achieved through carefully selected use cases

100

innovating companies

750M€

increased revenues

1000

increased EU jobs

250M€

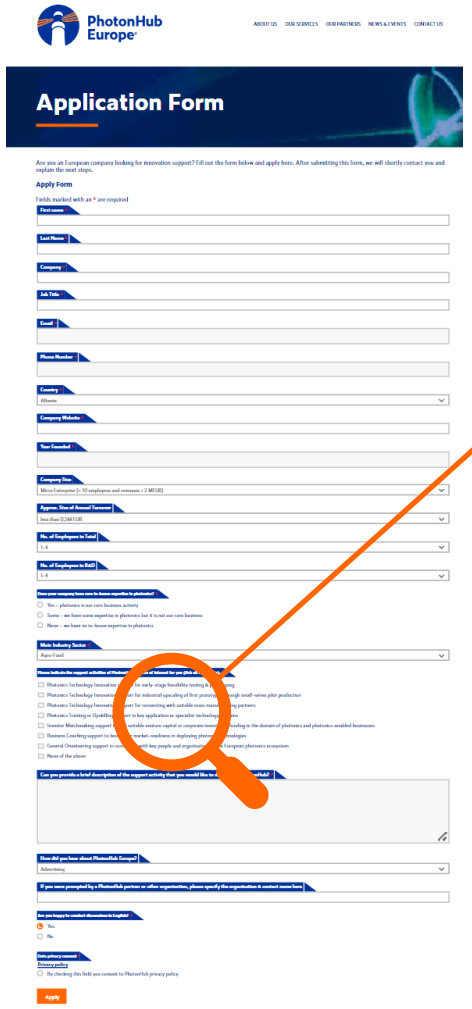
increased venture capital

PhotonHub Europe

Key things to remember:

- There must be a **cross-border collaboration** in order for PhotonHub to provide funding support
- PhotonHub funds the **innovation project**, not the company
- **Follow-on projects** are possible, so be specific on immediate needs
- PhotonHub is designed to support you with **photonics innovation**, not with finding new customers
- Don’t delay – **apply as soon as possible**

Online application form - photonhub.eu/application-form



Please indicate the support activities of PhotonHub that are of interest for you (tick all that apply): *

- [ ] Photonics Technology Innovation support for early-stage feasibility testing & prototyping
- [ ] Photonics Technology Innovation support for industrial upscaling of first prototypes through small-series pilot production
- [ ] Photonics Technology Innovation support for connecting with suitable mass manufacturing partners
- [ ] Photonics Training or Upskilling support in key application or specialist technology domains
- [ ] Investor Matchmaking support to find suitable venture capital or corporate investment funding in the domain of photonics and photonics-enabled businesses
- [ ] Business Coaching support to boost your market-readiness in deploying photonics technologies
- [ ] General Orienteering support in connecting with key people and organisations in the European photonics ecosystem
- [ ] None of the above

PhotonHub Europe

How to engage – visit PhotonHub.eu

- **Submit an online application for support**
- **Review the PhotonHub training offering**
- **Consider applying for the Investment Readiness Coaching & Investor Matchmaking Programme***

(if relevant to your funding stage and needs)

PhotonHub Europe

Let’s connect!

Prototyping
Upscaling
Manufacturing
Training & Reskilling
Business & IP Coaching
Investment Coaching

PHOTONHUB.EU

info@photonhub.eu

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