

4 - 5 DEC. 2024

**20 YEARS**  
OF EUROPEAN PARTNERSHIPS

**EUROPEAN  
PARTNERSHIP  
STAKEHOLDER  
Forum 2024**

BLUE POINT | BRUSSELS

**WELCOME TO THE THIRD  
EUROPEAN PARTNERSHIP  
STAKEHOLDER FORUM**



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13:45 Pre-Start

# European Partnership Pitches

INNOVATIVE HEALTH INITIATIVE

PHOTONICS

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**EUROPEAN PARTNERSHIP**  
**STAKEHOLDER FORUM 2024**



# The Innovative Health Initiative – IHI JU

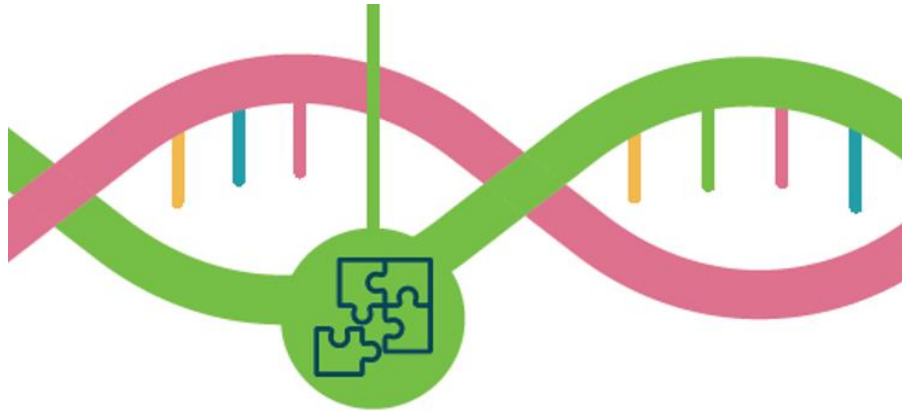
Bold collaborations, Transforming health

Magali Poinot

04.12.2024 • Annual Partnership Stakeholder Forum • Brussels, Belgium








# What is IHI?



## IHI IS EUROPE'S PARTNERSHIP FOR HEALTH

IHI is a **collaboration** between the EU and the biopharmaceutical, biotechnology, digital health and medical technology sectors, as well as academics, patients, regulators and other healthcare professionals.

Associations	Represent	Mission/Vision
	Pharmaceutical industry	To create a collaborative environment that enables our members to innovate, discover, develop and deliver new therapies and vaccines for people across Europe, as well as contribute to the European economy.
	Medical imaging, radiotherapy, health ICT and electromedical ind.	COCIR's key objective is to promote free worldwide trade of innovative medical technology while maintaining the competitiveness of the European medical imaging, radiotherapy, electromedical and health ICT industries.
	Medical technology industry	Make innovative medical technology available to more people, while helping healthcare systems move towards a more sustainable path.
	Vaccine industry	To support broad access to immunisation, enabling better protection of the health of individuals and the wider community throughout life, with both existing vaccines and those in development.
	Biotech industry	Committed to the socially responsible use of biotechnology to improve quality of life, to prevent, diagnose, treat and cure diseases, to improve the quality and quantity of food and feedstuffs and to move towards a biobased and zero-waste economy.

# IHI Objectives

Improve our **understanding of the factors that affect health** and the **treatment of priority disease areas**



**Integrate fragmented health research and innovation efforts** by bringing together health industry sectors and other stakeholders to **improve prevention, diagnosis, treatment, and management of diseases**, focusing on unmet public health needs



Demonstrate the feasibility of **people-centred, integrated healthcare solutions** which draw on various technologies and sectors



Exploit the full potential of **digitalisation and data exchange** in research and care, while respecting **privacy** legislation



Develop methodologies for a comprehensive assessment of the added value of **innovative and integrated health care solutions**



**By achieving these, IHI aims to**

Deliver **safe, effective health innovations** that cover the entire spectrum of care, particularly in areas where there is an unmet public health need

Make Europe's health industries **globally competitive**

Turn health research and innovation into **real benefits** for patients and society

# How?

By supporting innovative and ambitious projects, selected following **calls for proposals**:

- bringing **diverse stakeholders & sectors together** (public/private)
- delivering clearly-described **impacts on society, the economy and science**

**Any** legal entity or international organisation regardless of its place of establishment can **participate**

**Any** organisation established in the **EU** or a country associated to Horizon Europe is **eligible to receive IHI funding\***

*\*IHI two-stage calls: companies identified in the call topic are not eligible to receive IHI funding*

# IHI involves multiple healthcare stakeholders

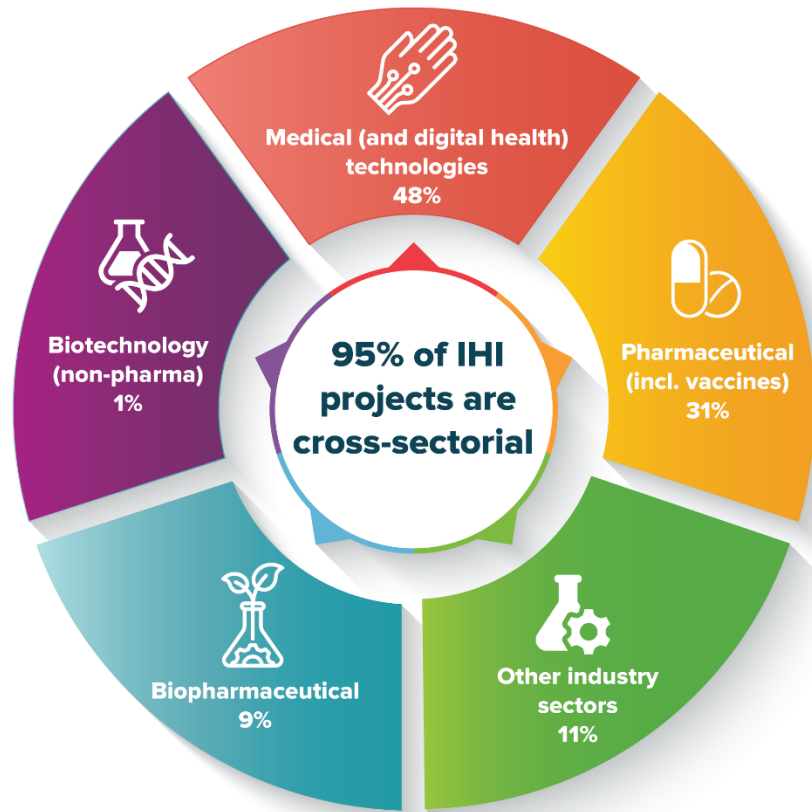
All 20 IHI projects (100%) involve more than two types of healthcare stakeholders as project participations. This exceeds the targets set for 2023 (55%) and 2025 (60%)



This IHI project addresses Multiple sclerosis (MS), affecting around 3 million people worldwide. It brings together health care professional organisations/providers, SMEs, Large companies, NGOs and leading academics.



# IHI brings together several industrial sectors



19 out of 20 projects (95%) bring together private members and/or contributing partners from two or more technology sectors.

This exceeds the targets set for 2023 (60%) and 2025 (65%)



This IHI project focuses on an approach called interventional oncology (IO) which targets cancer cells more precisely. The project brings together representatives of the medical technology, pharmaceutical and biopharmaceutical sectors as well as leading academic sectors.



# IHI contributes to the EU Health priorities for R&I

- Horizon Europe: Cancer Mission, EU partnerships, EIT Health, etc.
- Europe's Beating Cancer Plan
- The new Industrial Strategy for Europe
- The Pharmaceutical Strategy for Europe
- The European Health Data Space (EHDS)
- Green Deal Strategy
- Digital/AI strategy, etc.
- UN Sustainable Development Goal 3 on ensuring healthy lives and promoting well-being for all at all ages

# Joint priorities – aligned resources



Understanding of cancer

*IMMuCan , PERSIST SEQ, ...*

Prevention and early detection

*No Directed effort - IDERHA*

Diagnosis and treatment

*IMAGIO, GUIDE.MRD,  
PIONEER/OPTIMA, theranostics*

Quality of life for patients and their families

*No directed effort – IMAGIO,  
SISAQOL-IMI*

# European Health Data and Evidence Network



- **Policy Impacts**

- ✓ ~850m patient records harmonised. Ready to **kickstart the EHDS**
- ✓ Infrastructure used by the **EMA's DARWIN EU** network, & for the '*thrombosis in COVID-19 patients*' use-case in the **EHDS2 pilot project**
- ✓ **National data partner nodes** in Belgium, Germany, Greece, Israel, Italy, Luxembourg, The Netherlands, Norway, Portugal, Spain, UK
- ✓ **Skills** – Free online training >10,000 people enrolled 64 SMEs trained & certified



EHDEN Academy

- **Safeguarding against critical medicines' shortage**

- ✓ Study launched in November 2023 to investigate the **incidence, prevalence and characterisation of drug shortages in Europe**, supporting the **EMA initiative**
- ✓ Shortages in **25 key medicines studied** using data from 70 EHDEN Data Partners from **19 countries**

[www.ehden.eu/safeguarding-against-critical-medicines-shortage/](http://www.ehden.eu/safeguarding-against-critical-medicines-shortage/)



# IHI addresses the drivers of competitiveness in Health R&I

## Regulatory Science & Clinical Trials

*Developing European competitiveness by addressing regulatory and clinical trial challenges to support the translation of health innovations to patient outcomes.*

*Example projects/calls: PROTECT (IMI), HEU-EFS (Call 2), Regulatory Sandbox (Call 8 T3), C4c, Trials@Home, EU-PEARL (IMI), READIE, REALISE-D, ...*

## Implementation Science

*Developing European competitiveness by addressing challenges in translating health innovation to new health practice, including developing healthcare workforce*

*Example projects/calls: AD-RIDDLE (Call 3), Conception (IMI), SASICU (Call 3), Persistency (Call 6 T1), Workflows for sustainable healthcare workforce (Call 7 T2), ...*

## RWD, Digital Health & AI

*Developing European competitiveness by addressing challenges in development and use of RWD, digital health and AI in health innovation*

*Example projects/calls: EHDEN, H2O, IDERHA, BIGPICTURE, Gravitate-Health, RADAR, Mobilise-D, EHDS (Call 10 T2), Digital labelling (Call 10 T2), ...*

## Green & Competitive Industry

*Green transition enabled across all aspects of healthcare, both in the delivery of healthcare to patients, and in the technologies and products that emerge from competitive European industry*

*Example projects/calls: Chem21, iPiE (IMI), PREMIER, ENKORE, PharmEco, VICT3R (Call 4), PFAS (Call 10 T3), ...*

# IHI facilitates co-creation

## Shape our future research

- Send ideas demonstrating:
  - ✓ How they would **help IHI to achieve its goals**
  - ✓ How they are **aligned with the IHI research agenda**
  - ✓ Why they need a **cross-sectoral public-private partnership**
- Step in the new IHI opportunity! Call 9 single stage:
  - ✓ Applicant driven pilot to create **additional research opportunities in areas not already covered**
  - ✓ 5 topics aligned with the five **specific objectives of the IHI** research agenda
  - ✓ Total available IHI Funding: EUR 180 M



<https://europa.eu/!gPKb7B>





Thank you for your attention

[ihi.europa.eu](http://ihi.europa.eu)





**PhotonHub  
Europe®**

**PhotonHub™  
PHACTORY**



**“PhotonHub”  
Pan-European ecosystem  
for closing the photonics innovation gap**

**Hugo Thienpont**



**B-PHOT  
BRUSSELS  
PHOTONICS**

# Photonics is a key-enabling technology



Optical Telecom



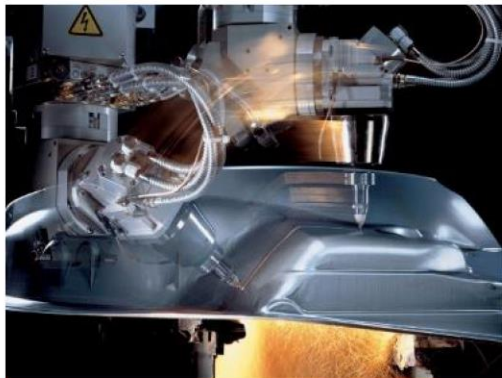
Photovoltaics



LED Lighting



Displays



Lasers in Manufacturing



Medical Optics



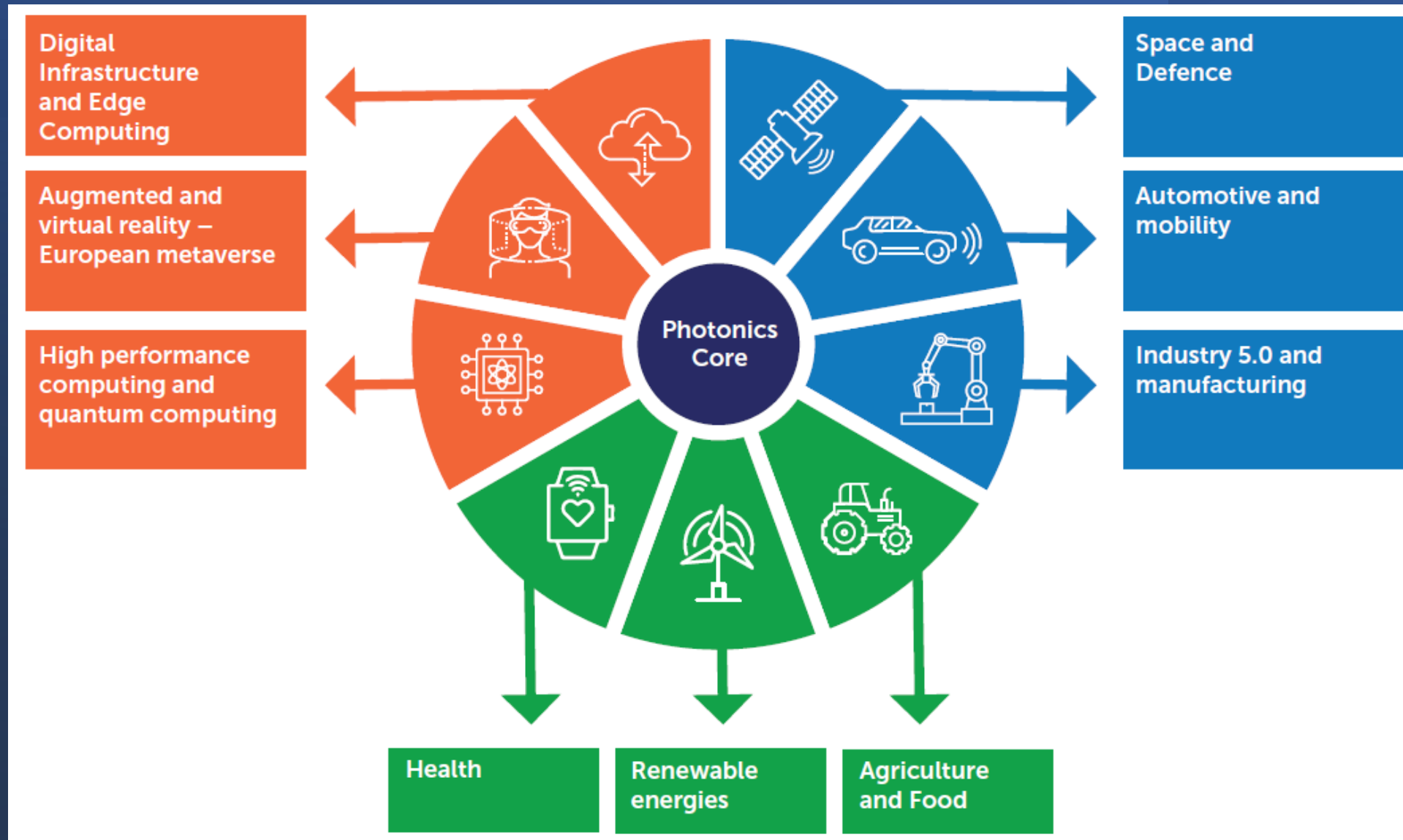
Machine Vision



Optical Components

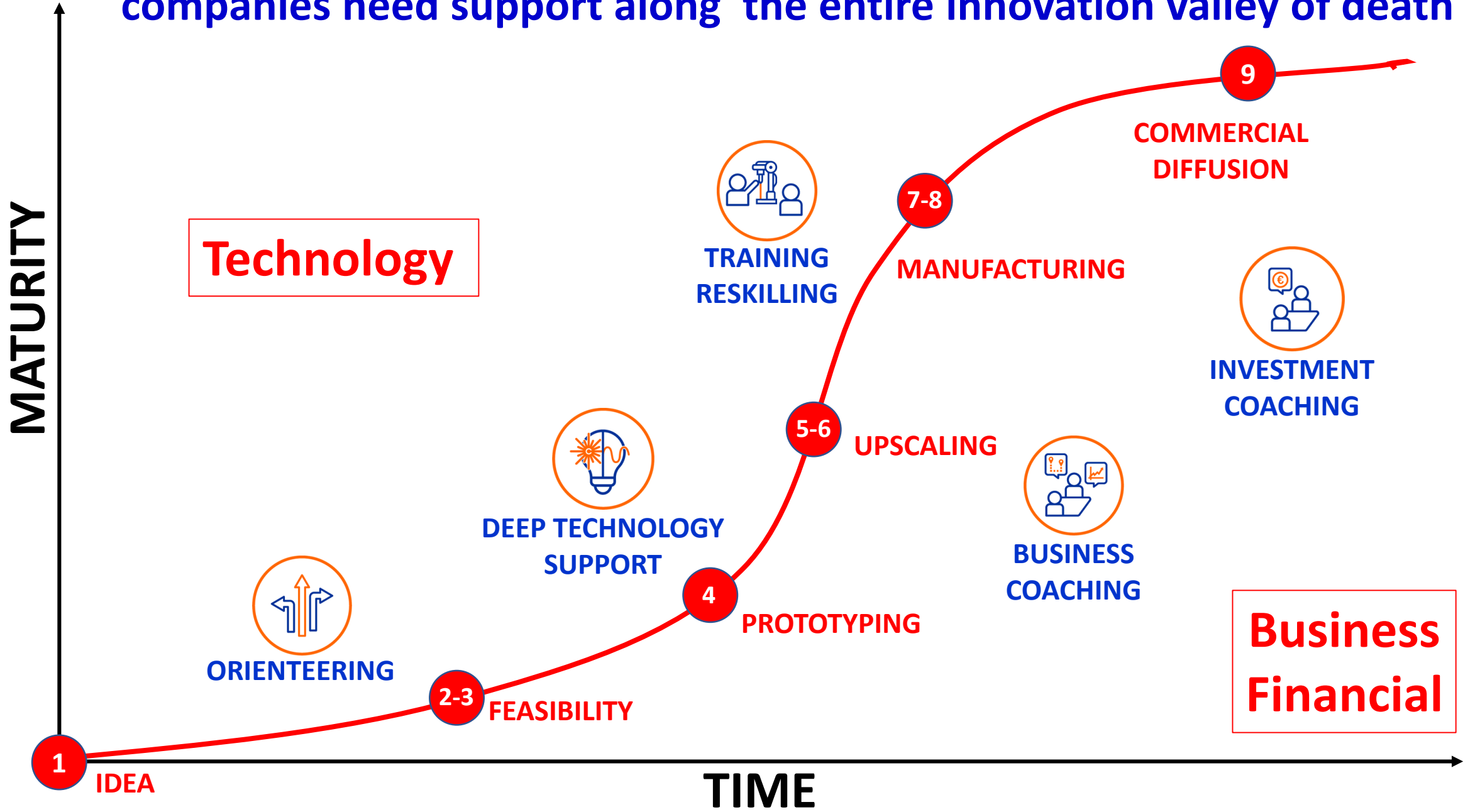


# Recently photonics - as a core technology- has started to innovate various highly important industry sectors for Europe



# 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 – 31 Dec 2025  
19 M EUR



Orienteering



Training  
& Reskilling



Deep  
Innovation  
Support

**TRL 3-8**



Business  
Coaching



Investment  
Coaching



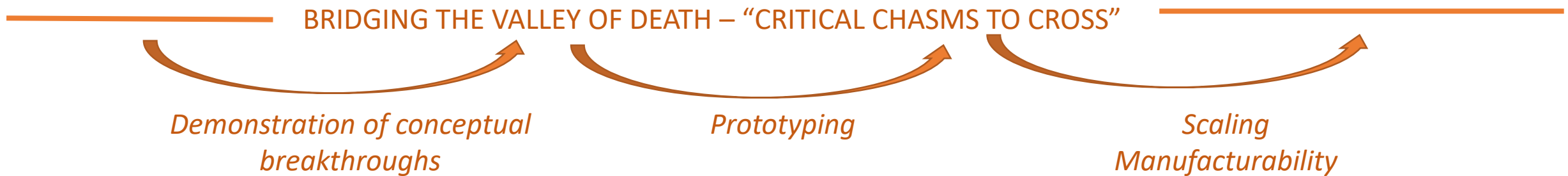
Regional  
Support



PHOTONICS<sup>21</sup>

# Listen to the challenges of the companies

## Demand driven - No Technology Push



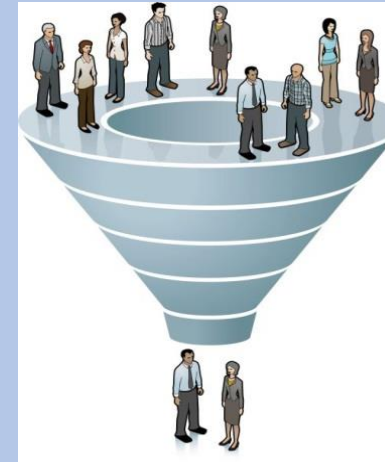
# PhotonHub 3 step action plan to photonics innovation

**OUTREACH TO COMPANIES  
FROM  
VARIOUS INDUSTRY SECTORS**



**ORIENTEERING**

**TECHNOLOGY SCOUTING  
BUSINESS SCOUTING**



**EVALUATION PROCESS**

**DEEP INNOVATION SUPPORT**

**CUSTOMER SATISFACTION  
IMPACT MEASUREMENT**



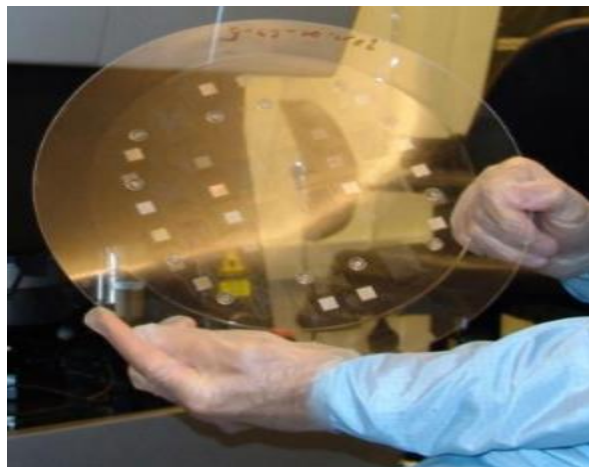


PhotonHub  
Europe®

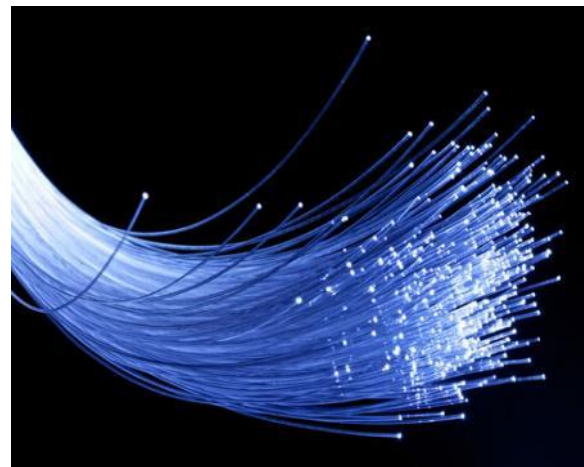
# Prototyping Innovation Support Offered by 8 Platforms



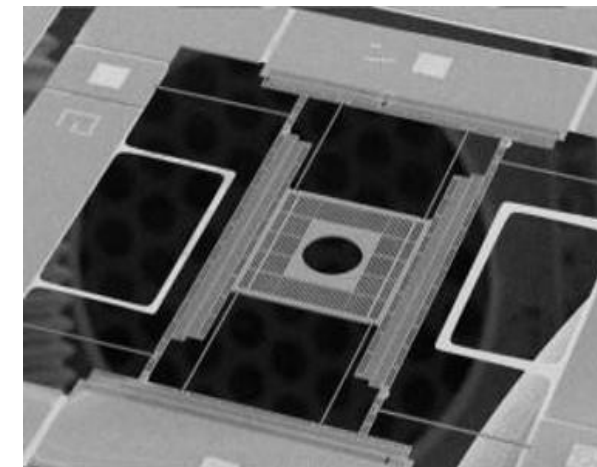
Laserbased manufact.



polymer-based optics



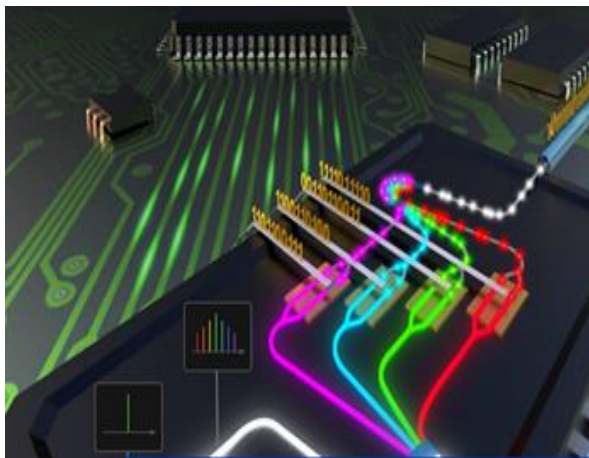
specialty fibers



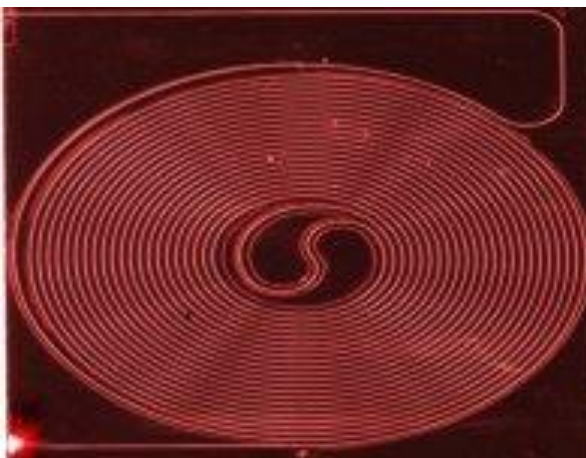
MOEMS



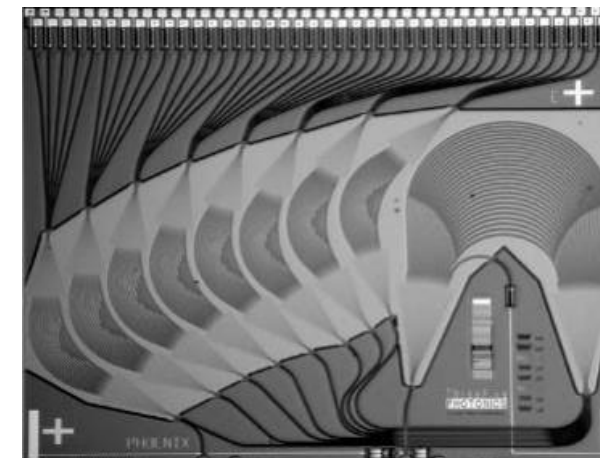
free-space optics



LNOI-PICs

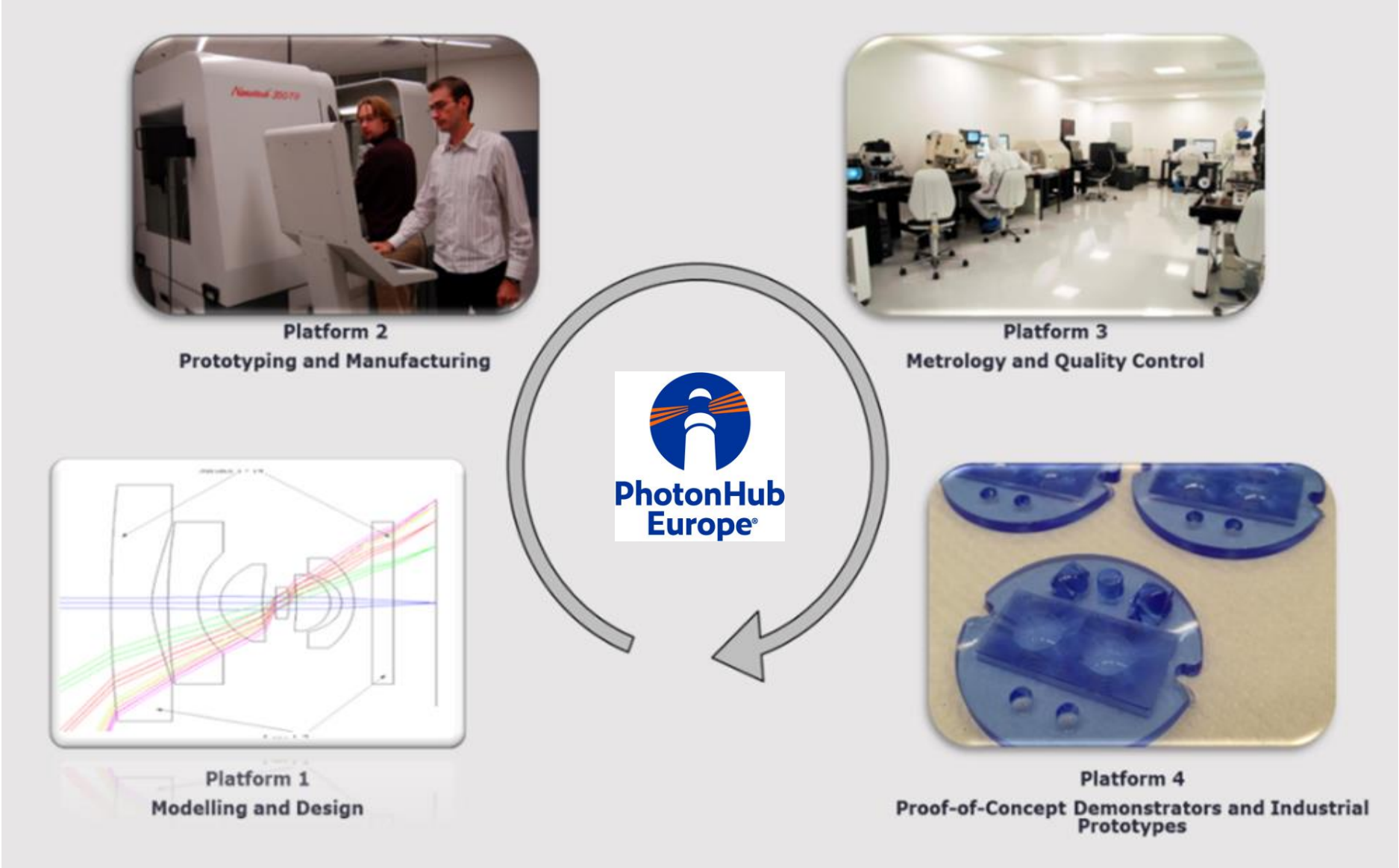


Si/SiN PICs



InP-PICs

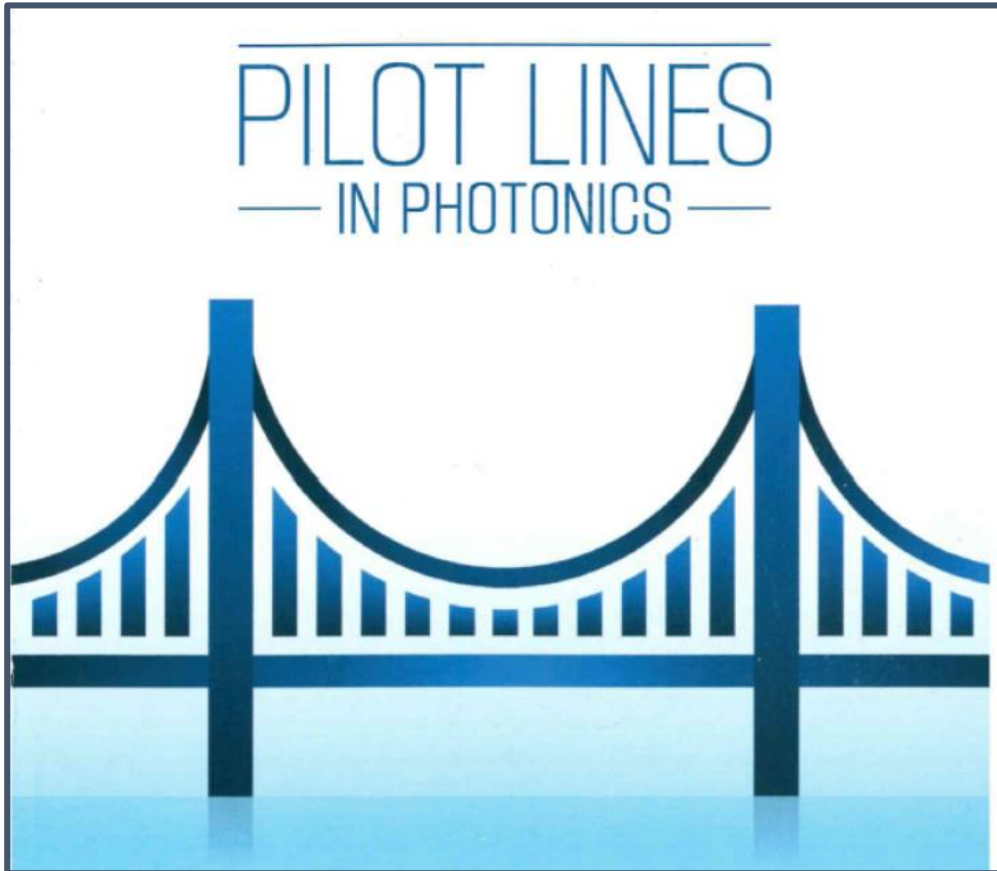
# Each technology platform supports the full supply chain from design to prototyping





PhotonHub  
Europe®

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





# Support European Companies to Find Investment

## 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



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



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



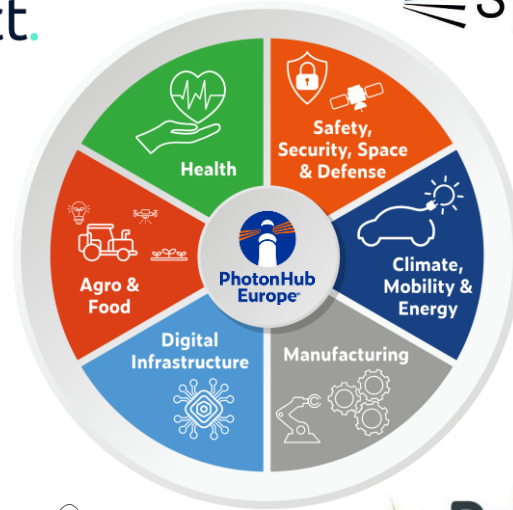
Investment  
Coaching



# All Supported Companies



VETE ENGINEERING



feinwerkoptik zünd



MEGGITT



mapsi



aseptUVa

TRICOMAS



AKKNATEK

# 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**

# A few VC success stories in the press

Hardware

## Akhetonics raises capital for its all-optical processor prototype

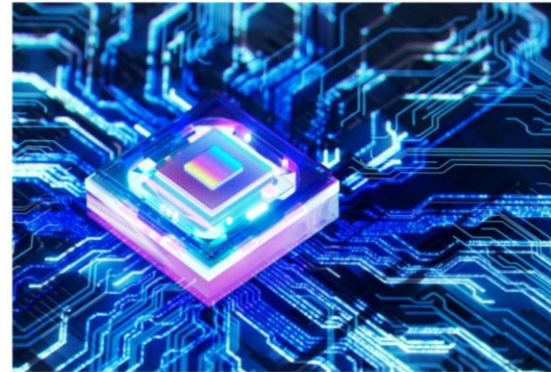
### €2,5 million

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



## Finchetto awarded £1m grant in Telecoms Challenge

NEWS 03 April 2024 | 2 minute read



UKTIN member company, Finchetto, has been awarded £1m to develop the world's first fully optical switch for telecoms networks.

The £70m Technology Missions Fund (TMF) Future Telecoms Mission, delivered by UK Research and Innovation (UKRI), has provided the funding to advance technologies vital for upcoming telecom networks like 6G.

## 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 secures funding from the European Innovation Council

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.

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

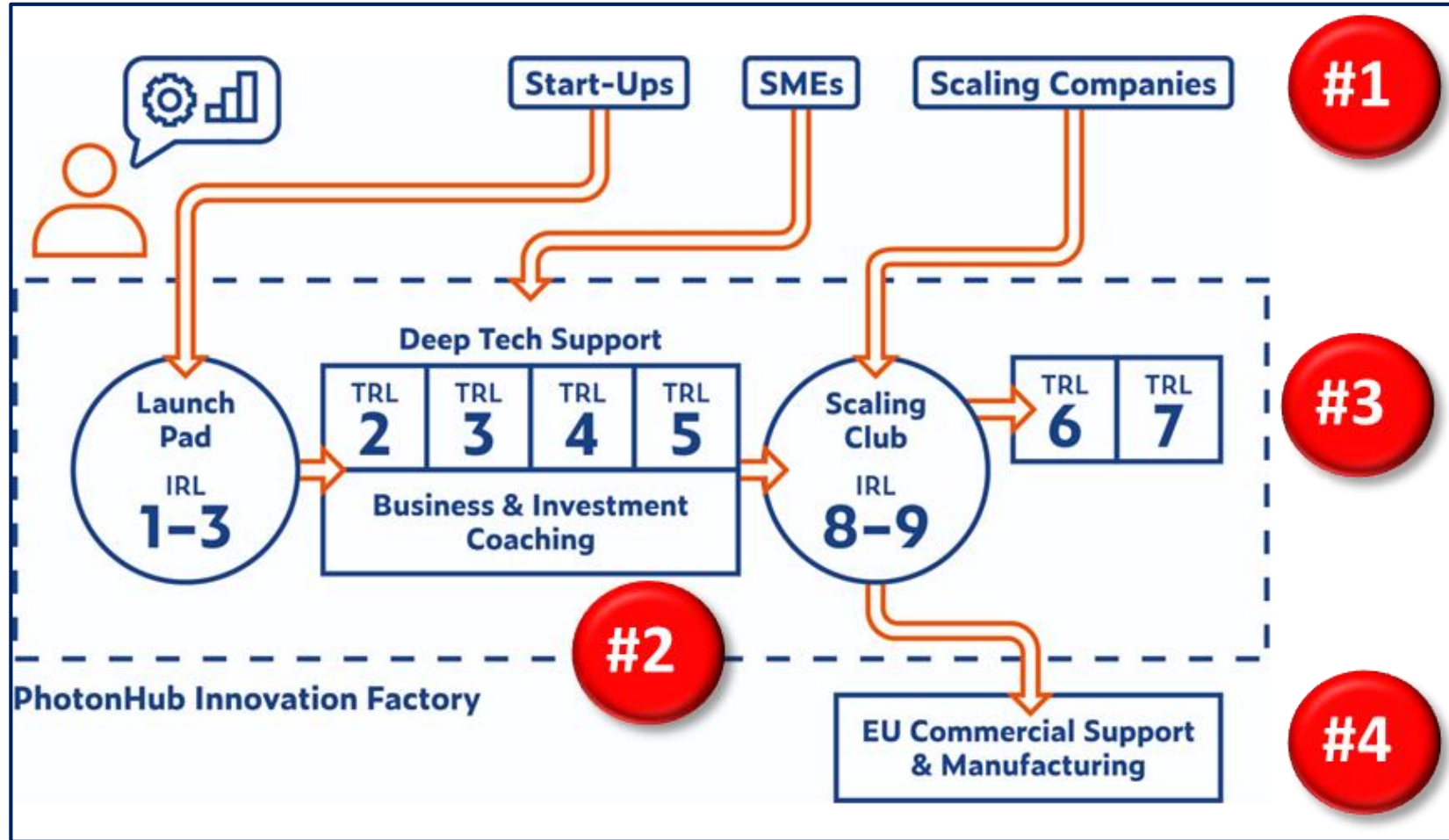
*iPronics chips open the door to commercial applications that require faster computation, lower power, cost-effective solutions such as 5G, data centres, and real-time deep learning.*

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.



# Tackling the next innovation hurdles in Europe (2025-2029): Photonics Entrepreneurship and Upscaling



**PhotonHub**<sup>TM</sup>  
**PHACTORY**

2025-2029

# TAKE HOME MESSAGES

- **PhotonHub is a unique collaborative pan-European innovation ecosystem with measurable high-value impact**
- **Closing the innovation gap at the EU cross-border level has been made possible with EC funding. Regional funding does not enable this kind of cross-border innovation support**

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# Welcome address

***EKATERINA ZAHARIEVA***

*COMMISSIONER FOR START-UPS, RESEARCH AND  
INNOVATION*

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**EUROPEAN PARTNERSHIP  
STAKEHOLDER FORUM 2024**

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# Keynote speeches

*GIORGIO GORI (EP)*

*VICE-CHAIR OF THE ITRE COMMITTEE*

*LÁSZLÓ BÓDIS*

*DEPUTY STATE SECRETARY FOR INNOVATION,  
REPRESENTATIVE OF THE HUNGARIAN PRESIDENCY*

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# 20 years of European Partnerships – reflections and achievements

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## Panel discussion

*DARIA JULKOWSKA, CHAIR OF THE FORMER EXPERT GROUP - BMR24'*

*UTE GUNSENHEIMER, SECRETARY GENERAL OF THE EOSC ASSOCIATION*

*WOLFGANG BALLENSIEFEN, COORDINATOR EP PERMED, DLR  
ROSALINDE VAN DER VLIES, DG RTD, DIRECTOR DIR. C*

*MODERATION*

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*FABIENNE GAUTIER, DG RTD, HEAD OF UNIT G.4 MISSIONS AND PARTNERSHIPS*

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# 15:30 – 16:00 Networking Coffee

**16:00 PARALLEL WORKSHOPS ALONG CLUSTERS**

**A1 HEALTH – NEWTON BC**

**A2 CLIMATE, ENERGY AND MOBILITY – VESALIUS**

**A3 DIGITAL, INDUSTRY AND SPACE – DARWIN**

**A4 FOOD, BIOECONOMY AND NATURAL RESOURCES,  
AGRICULTURE AND ENVIRONMENT – EINSTEIN ABC (PLENARY)**

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**A4: CLUSTER 6**

**FOOD, BIOECONOMY AND NATURAL  
RESOURCES, AGRICULTURE AND  
ENVIRONMENT**

Einstein ABC 16:00 – 17:30



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17:30 – 19:00

# Bilateral Talks and Networking dinner