



# PhotonHub Europe<sup>®</sup>

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## PHOTONICS INNOVATION HUB FOR EUROPE



PHOTONICS<sup>21</sup>

PHOTONICS PUBLIC PRIVATE PARTNERSHIP



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# PHOTONICS

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The science and technology that innovates with the unique properties of light.



# Photonics A key digital technology



Optical Telecom



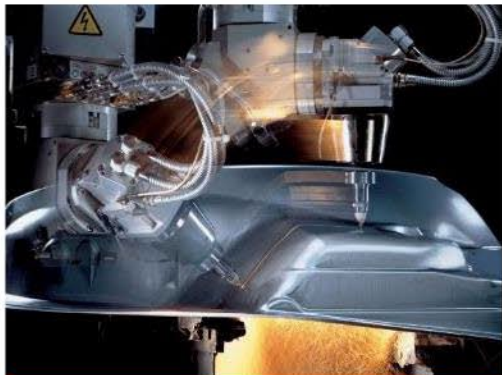
Photovoltaics



LED Lighting



Displays



Lasers in Manufacturing



Medical Optics



Machine Vision



Optical Components



# ENERGY



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# MOBILITY



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# DIGITAL INFRA- STRUCTURE



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# BIO- MEDICAL



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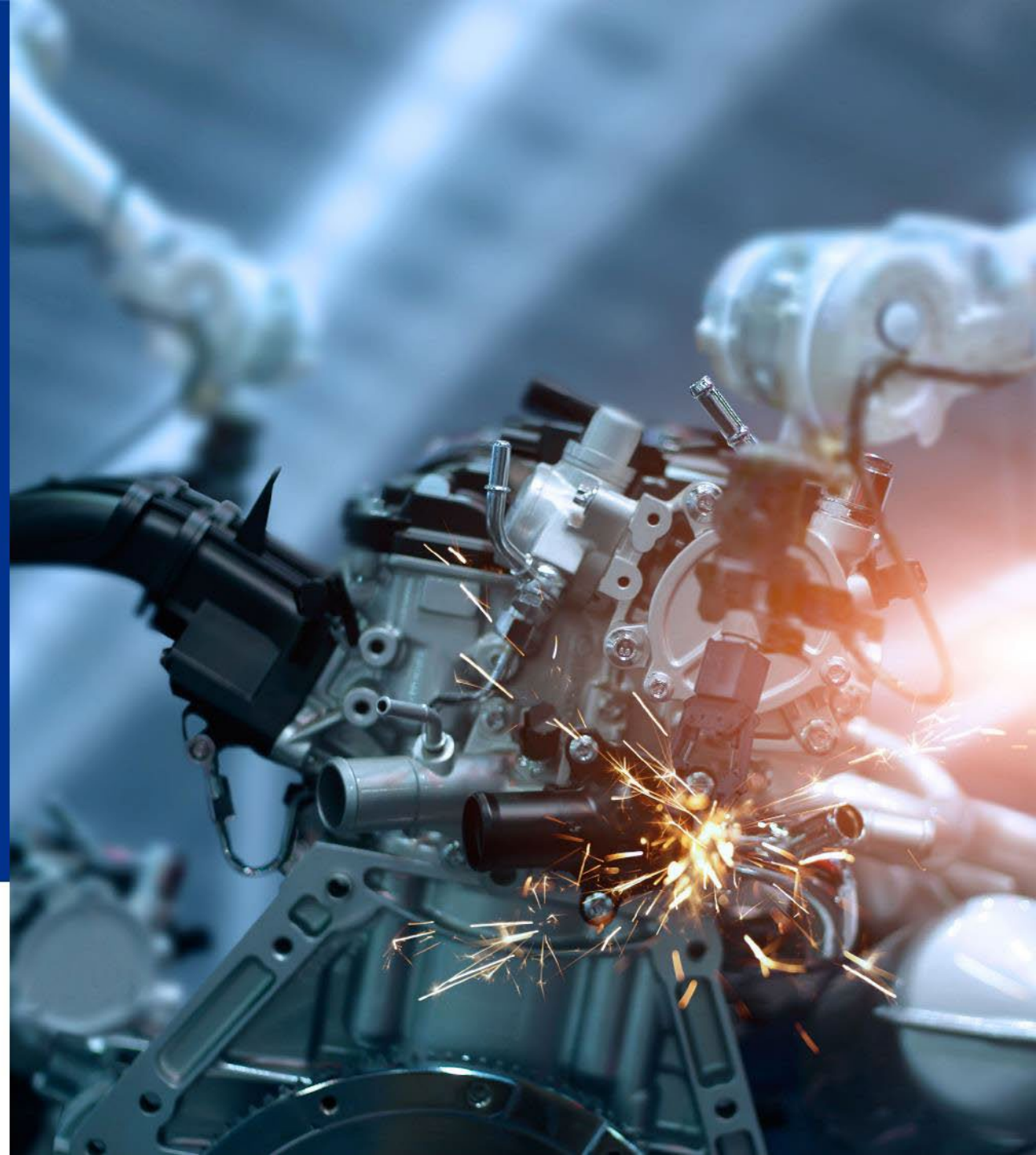


# MANU- FACTURING

# INDUSTRY 4.0



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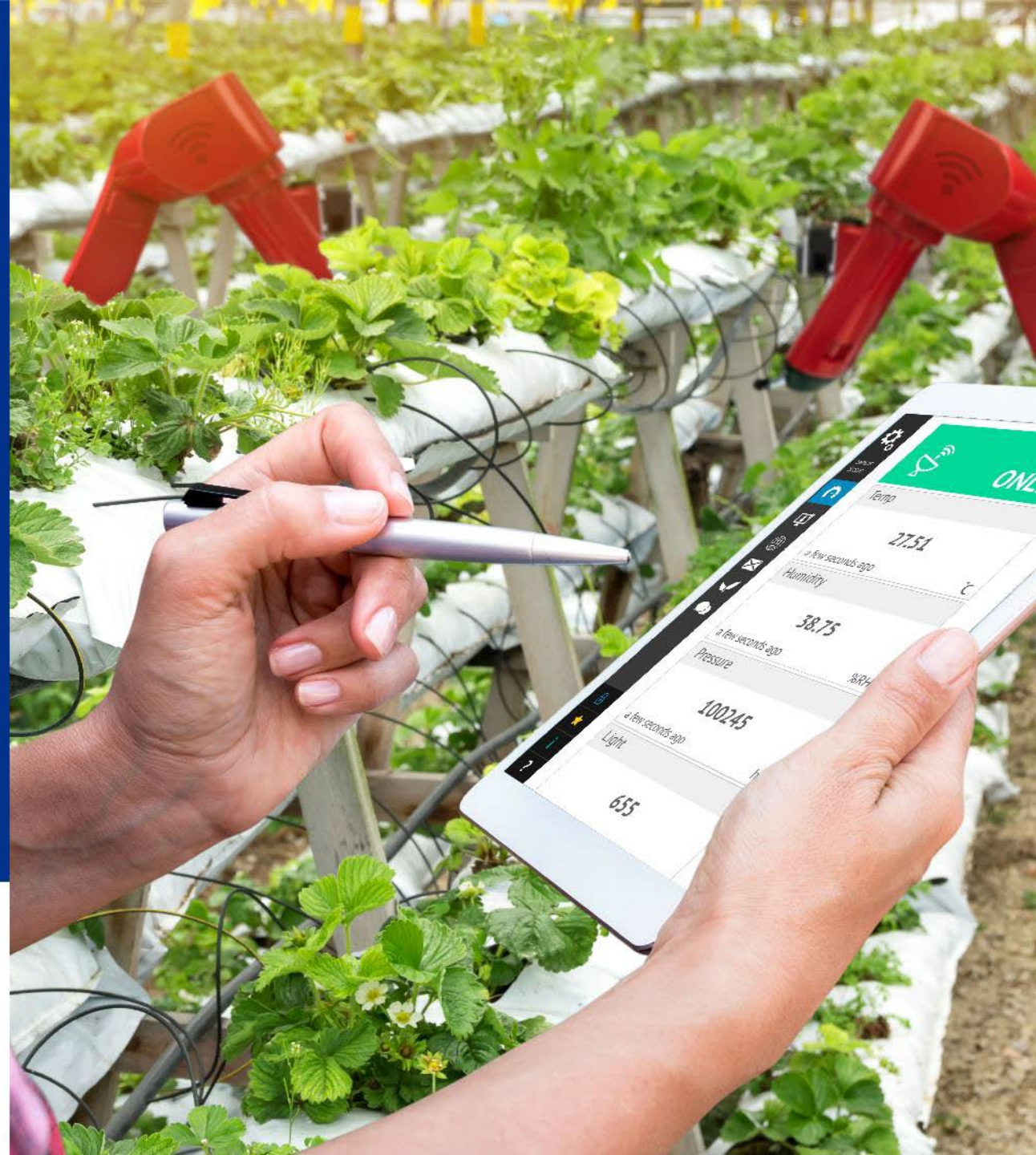




# AGRO- FOOD



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**SAFETY  
SECURITY  
SPACE  
DEFENCE**

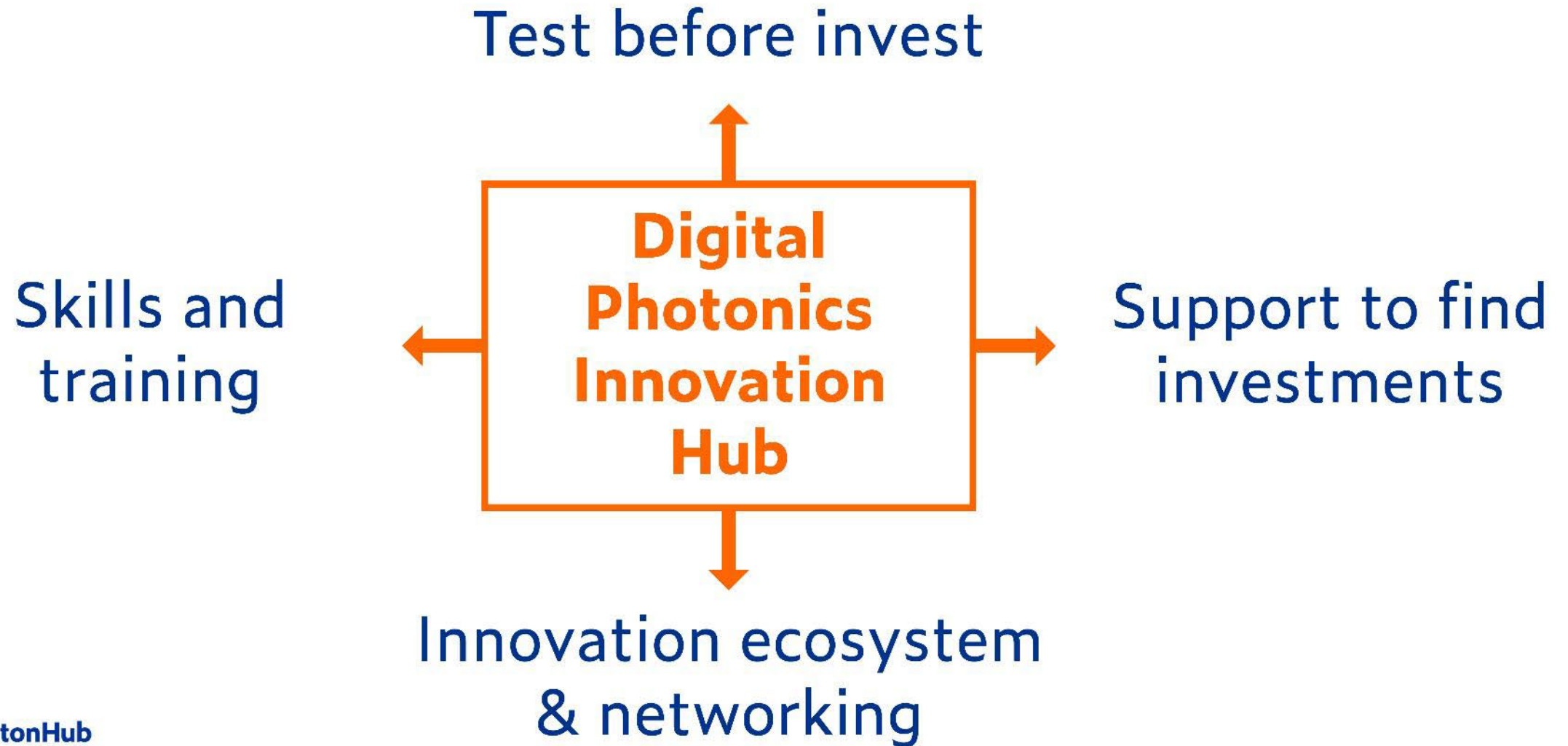


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# Single One-Stop-Shop





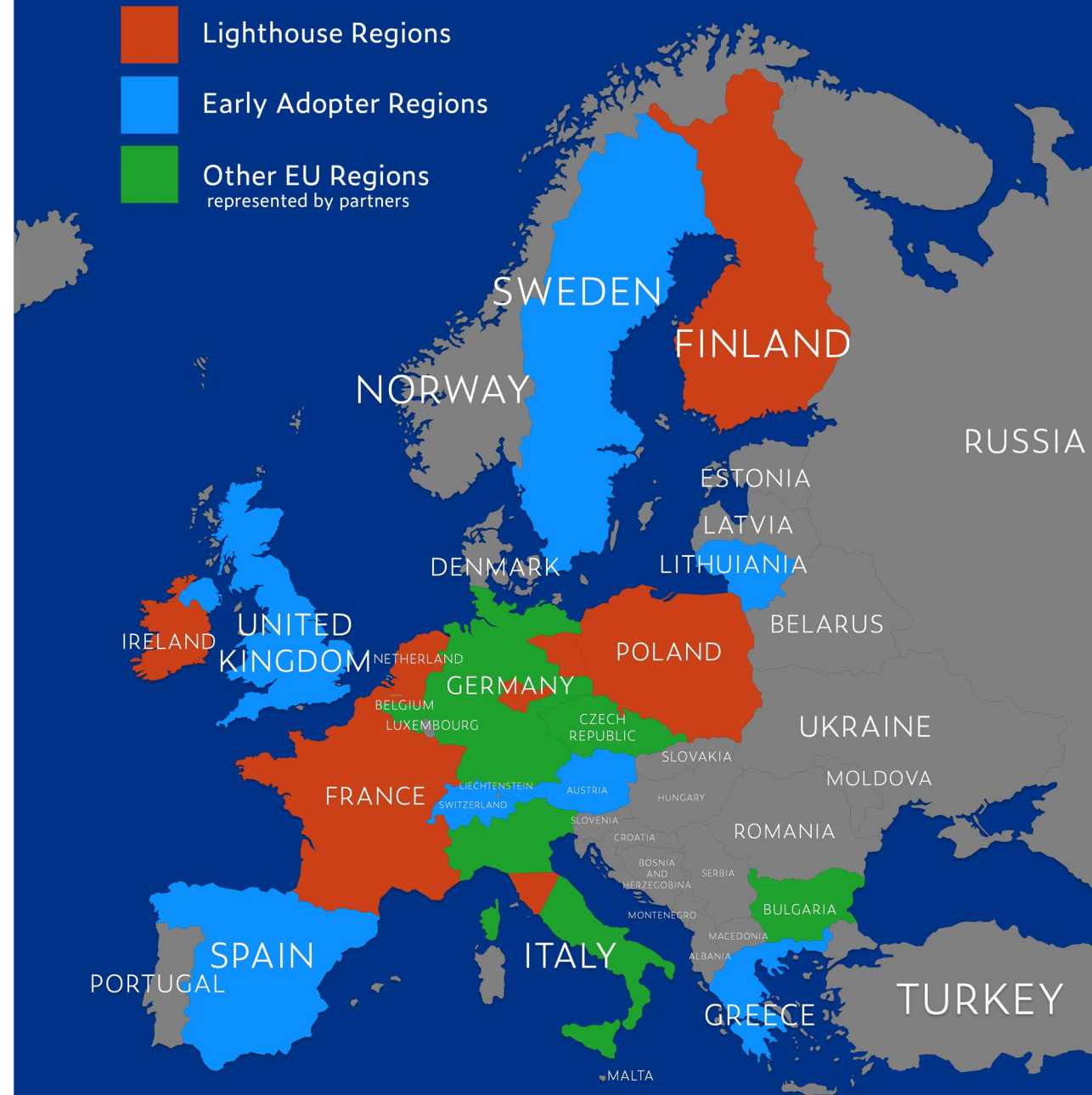


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**500+ EXPERTS**

**15 MEMBER STATES**

**36 Technology Support Partners**  
**20 Local Photonics Hub Partners**  
**+6 Business Support Partners**





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

## PhotonHub Support Activities



Orienteering



Training  
& Reskilling



Deep  
Innovation  
Support

TRL3-8



- You can meet us
  - At Industry Exhibitions
  - At Industry Brokerage events
- You can contact our one-stop-shop Front Office Gateway in Brussels

PhotonHub Support Activities

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# ORIENTEERING





## Orienteering as a one-stop-shop

- You would like to innovate with photonics but do not have the expertise or the technology in-house?
- You would like to receive assistance in photonics technology to build a prototype ?
- You have a prototype but are now looking for upscaling this in production?
- You are looking to find region funding to support your innovation project ?
- You are looking for investors to finance the scaling up your company?
- You are looking specific photonics training ?



We listen to your needs to define what is the best next step to boost your business with photonics innovation ?



Orienteering



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- We offer General Introduction to Photonics for SMEs, First users and Early Adopters
- We provide an online Catalogue of Existing Training Offerings
- We welcome you at our Demo Centres and Experience Centres
- We offer Train-the Trainers Programmes for Professional and Vocational Training Centres

PhotonHub Support Activities

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# TRAINING & RESKILLING





# TRAINING AND RESKILLING

## Introductory course in Photonics Innovation

Get started through an introductory online course in Photonics Innovation:

New to photonics, and looking for inspiration on the innovation potential of photonics technologies in your particular application domain? We have for you. Why not join one of the free online introductory courses in Photonics Innovation presented by our top experts from the leading companies in Europe. The courses are short interactive sessions (4 hours), are fully online, are running continuously throughout the year, are open to any European citizen and are offered free-of-charge. So what are you waiting for?

[Explore the introductory online courses in Photonics Innovation](#)

PHOTONHUB DEMO CENTRES

PHOTONHUB EXPERIENCE CENTRES

TRAIN-THE-TRAINER PROGRAMS

EUROPEAN PHOTONICS INNOVATION ACADEMY CATALOGUE

Apply



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Applications  
Support  
Partners

Agro-food  
Energy  
Digital Infrastructure  
Mobility  
Health

PhotonHub  
from the  
2020 re  
program  
Agreem  
Private  
21



**We provide Accelerating Technology Innovation Support  
for companies from Prototyping to Upscaling and Manufacturing**

- **Prototyping through Innovation Projects TRL3-4**
- **Upscaling involving EU Pilot-Line Facilities TRL5-6**
- **Manufacturing in Europe TRL7-8 through Brokerage**

PhotonHub Support Activities

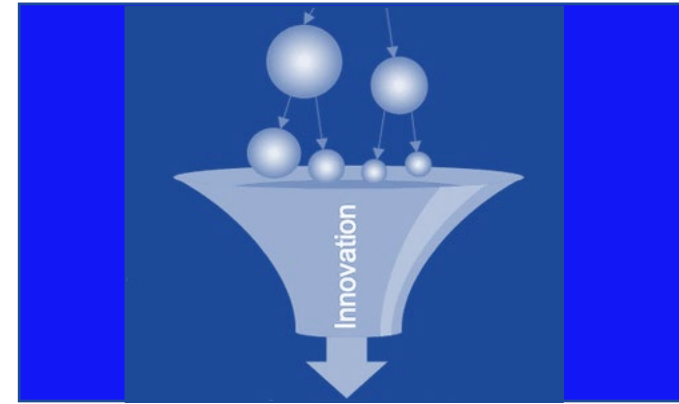
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**DEEP INNOVATION  
SUPPORT**



First step for “Test before invest” : Scouting

## Scouting of Potential Innovation Projects Assessment of Business Plans



- In depth discussion with experts of PhotonHub, under NDA.
- Investigating which technology/approach/experts are best suited to support the business driven photonics innovation request
- Interaction with a central business coach about Business plan.
- Company receives detailed scouting report

Budget for 500 scouting activities

How to receive scouting support ?

- Complete simple form on website
- Or send an email request to [info@photonhub.eu](mailto:info@photonhub.eu)

Cost involved for company : 0€



Deep  
Innovation  
Support TRL 3-8



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Deep  
Innovation  
Support TRL 3-8



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What is the best next step to  
boost your business with  
photonics innovation ?



“Test-Before-Invest” Innovation Support  
for **Prototyping** to **Upscaling** to  
**Manufacturing**



**Step 1 : Technology Scouting**



**Accelerating Prototyping  
through Innovation Projects  
with Companies TRL3-4**



**Accelerating Upscaling  
involving EU Pilot-Line  
Facilities TRL5-6**



**Accelerating Manufacturing  
in Europe through  
Brokerage Supports TRL7-8**

# Available funding : 7,4M€

Project Level	PhotonHub Subsidy	Max. Subsidy	No. of project permissible
Prototyping (TRL3-4)	<b>For SMEs</b> : 100% of the first 30k€ , thereafter (incl. follow-on project) 75% subsidy with the company contributing 25% in cash <b>For LSCs</b> : 50% subsidy on all costs	100k€ per innovation projects	Max . of 1 follow-on project per company at the prototyping level
Upscaling (TRL5-6)	<b>For SMEs</b> : 50% for first users & early adopters at this level, with the company contributing 50% in cash, 0% subsidy if the company is not a first user or early adopter <b>For LSCs</b> : 0% subsidy on all costs	250k€ per innovation project, of which cascade funding can be provided up to a maximum of 150k€	Max . of 1 follow-on project per company at the upscaling level

The SMEs will not receive funding in cash, but their innovation project will be funded



# PhotonHub Europe Key Principles

- Support European SMEs with photonics innovation **driven by their business needs**
- Local support where possible, **local innovation projects funded by local means**
- Cross-border support where needed, **cross-border projects funded by PhotonHub**
- Access to pilot-line facilities for first-time users funded through **cascading funds**
- Team up and co-fund as much as possible with existing programs: **EEN brokerage events, Innovation Days, Trainings, Venture Capital Forums**

- **First-Level Investment-Readiness Coaching for Companies Deploying Photonics Technologies**
- **Intensive Investor Pitching and Matchmaking Support for High-Potential Start-Ups and Scale Ups**
- **“European Photonics Venture Forum” for photonics start-ups and scale-ups**
- **“Investor Days” for photonics-enabled start-ups and scale-ups**

PhotonHub Support Activities

# **INVESTMENT & BUSINESS COACHING**





- We Create New Local Photonics Innovation Hubs Covering Most Regions of Europe
- We Connect the PhotonHub Network with complementary DIHs

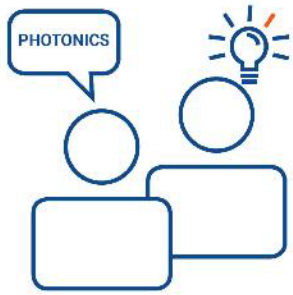


PhotonHub Support Activities

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# REGIONAL SUPPORT





**100,000+ European companies**  
with raised awareness of  
photonics innovation potential



**5,800 companies visiting**  
the Demo and Experience  
Centres



**€ 742 M new company  
revenues** directly linked  
to innovation support



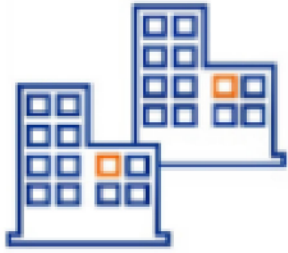
**€ 92 M new venture capital**  
raised by EU start-ups directly  
linked to photonics prototyping  
and investor matchmaking support



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Targeted Economic **Impact**





**90% of companies** benefiting from expert personalised orienteering are **SMEs**



**€ 100 M new business** for EU photonics manufacturers directly linked to innovation support



**1,080 new high-tech EU jobs** directly linked to innovation support



**€ 36 M new growth capital** raised by EU scale-ups directly linked to photonics upscaling/manufacturing



**170 new photonics-enhanced products** developed and manufactured in the EU directly linked to innovation support



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Targeted Economic **Impact**



**€ 75 M allocated in regional grants** for local photonics innovation support to 100 companies directly linked to PhotonHub coaching and scouting support



**5 new local photonics innovation hubs** created across the European regions by 2025



**7 EU regions each commit € 500 K** annually from 2025 onwards for the financial support of cross-border photonics innovation projects



**40 founding partners** establish the PhotonHub Europe Association by 2024 that seamlessly and durably continues the photonics innovation support offerings of PhotonHub



Business plan that underpins the long-term sustainability of PhotonHub Europe with **break-even status already in YEAR 1.**





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**Join the community**



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Success



Business Plan



Investor Pitch Deck  
Financial Support



Investor Valuation - Training 2014

