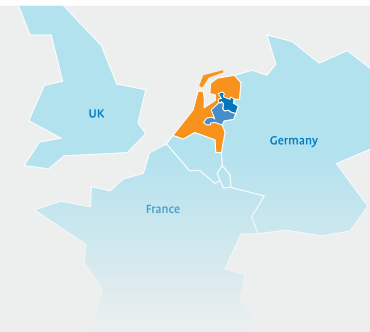




Photonics

The Photonics Leader

Photonics, among other Key Enabling Technologies, is a funding priority from the EU: € 110 billion to date. The Netherlands is a major focus of this investment and is a strong leader in photonics research, product development, manufacturing and technology application. The ground has been prepared for you. By bringing your company to the Netherlands, you gain the benefits of this investment.



M Business climate



Here you will find the largest concentration of integrated photonics-related businesses in the nation. Its strengths are:



Expertise

Optical systems, photonic devices, testing & measurement technologies, manufacturing technology.



Markets

Industrial manufacturing, semiconductors, photonic research & education in opticals, imaging and lasers.



Companies

Avantes, DEMCON Focal, IDEX optics & photonics, Lightmotif, LioniX International, Ocean Insight, PANalytical, PHIX, Phoenix Software, QuiX, Solmates, Sumipro, Thales.

These companies offer technology platforms for shared research and development, as well as product development consortia to assist in product launch.



Market access

PHIX Photonics Assembly established its assembly and packaging production line in April 2017, targeting cost-effective fabrication of Photonic Integrated Circuit modules in large volumes. With its operations on the premises of the University of Twente, PHIX contributes to the established regional eco-system of design, engineering and development of integrated photonics solutions.

PHIX will work in close cooperation with the Fraunhofer Project Center on packaging standards for high volume manufacturing of integrated photonics modules and with Phoenix Software on developing the appropriate photonic design kits, dedicated to assembly and packaging, to secure volume scalability and fast time-to-market of novel sensors in datacom, telecom and medical applications.

PhotonDelta is the Dutch ecosystem in which high-tech companies, knowledge institutions and authorities have joined forces to gain a leading position in the development and commercialization of photonics. PhotonDelta is recognized as one of Europe's leading innovation hubs, amplifying existing initiatives and kick-starting new ones.



New technologies

The business infrastructure supports a thriving technological architecture. Key enabling technologies (KETs) targeted by the EU and Dutch governments for investment and development:

- Photonics
- Micro and nanoelectronics
- Nanotechnology
- Industrial biotechnology
- Advanced materials
- Advanced manufacturing technologies

All of these technologies are being strongly developed in East Netherlands which has become internationally recognized as a global leader in fundamental and applied research in photonics.



Most innovative country in the world

GII 2017-2019

East Netherlands: a vibrant photonic ecosystem

Only in East Netherlands you can find such a strong, vibrant representation of qualified photonics business partners, technologies, talent and government support.

This ecosystem is boosted by a funding injection from the EU of €110 billion Euros, to help companies such as yours to succeed with integrated photonics in Europe.

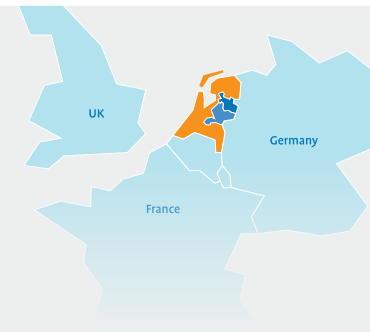
If your company is active in the photonics value chain, East Netherlands is the place to be.

“Our strategic collaboration with LioniX International [in East Netherlands] is essential for us to develop the photonics business in the Asia-Pacific market including China. We will become a market-leader in the [Asia-Pacific] region in the near future.”

Young Mo Kim,
Chairman of YMK Holdings



Oost NL has partnered with over **900** companies for success in Europe



Top talent



New job opportunities in photonics are expected to double in the coming 5 years. Students are flocking to the photonics field, increasing 30% annually. The Universities and Applied Science Institutes in the Netherlands strongly support relevant scientific studies that are closely linked to this growing market.

Number of students, East Netherlands



43,000
Universities



85,000
Higher Professional Education



104,000
Vocational Education

source: CBS, 2018/2019



Funding

Innovation in photonics is one of the funding priorities within the European Union (EU). These funds are also an important vehicle to connect our photonic ecosystem to other important hot spots in Europe. The EU has made significant investments in photonics in recent years, and remains the largest investor in the technology, leading the US and Asia.

80 billion
budget for cooperation in R&D through EU Horizon 2020 program

As an official partner of the Dutch and EU governments, Oost NL is a qualified intermediary in helping you to access EU, national and regional funding.

255 million
regional participation fund

100 million
innovation grants & incentives



Business support

Oost NL is in a strong position to help secure new markets for you in Europe.

PhotonicsNL - The Dutch portal for optics and photonics professionals

- stimulate photonics innovation by enabling collaborations and cross-fertilization between companies and industries
- increase the level of awareness of the importance of photonics for our economy
- increase the knowledge of photonics at all levels of education

70 Start-ups

Average new technology start-up companies every year

Oost NL - Support for your success in Photonics

Oost NL is the economic development agency for East Netherlands. We have access to resources - funding, business partners and infrastructure, technological architecture and research partners - to help you succeed in establishing and growing your European business. If your strategic vision is global growth through European business development, Oost NL is your partner for success.

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