Our vision on investments in photonics

PhotonDelta

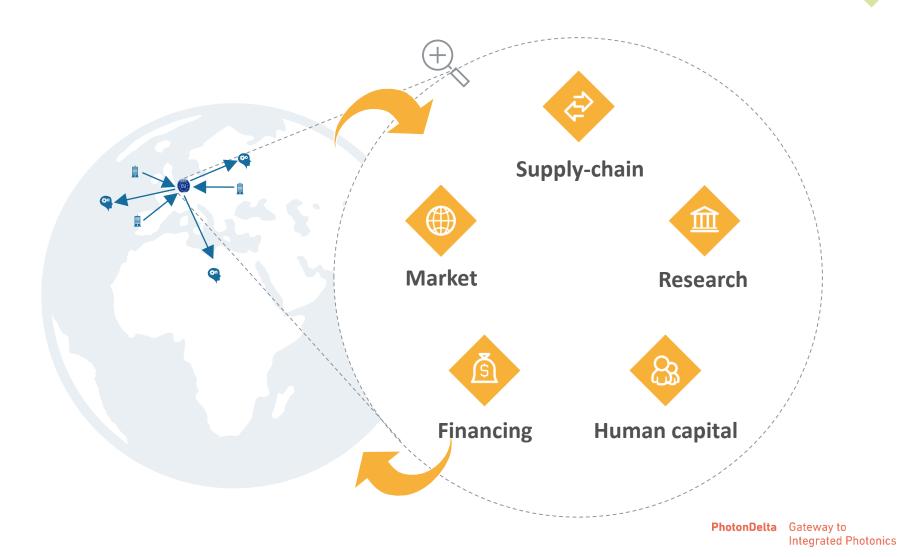


PhotonDelta is an ecosystem for integrated photonics





PhotonDelta Foundation helps to take the industry forward

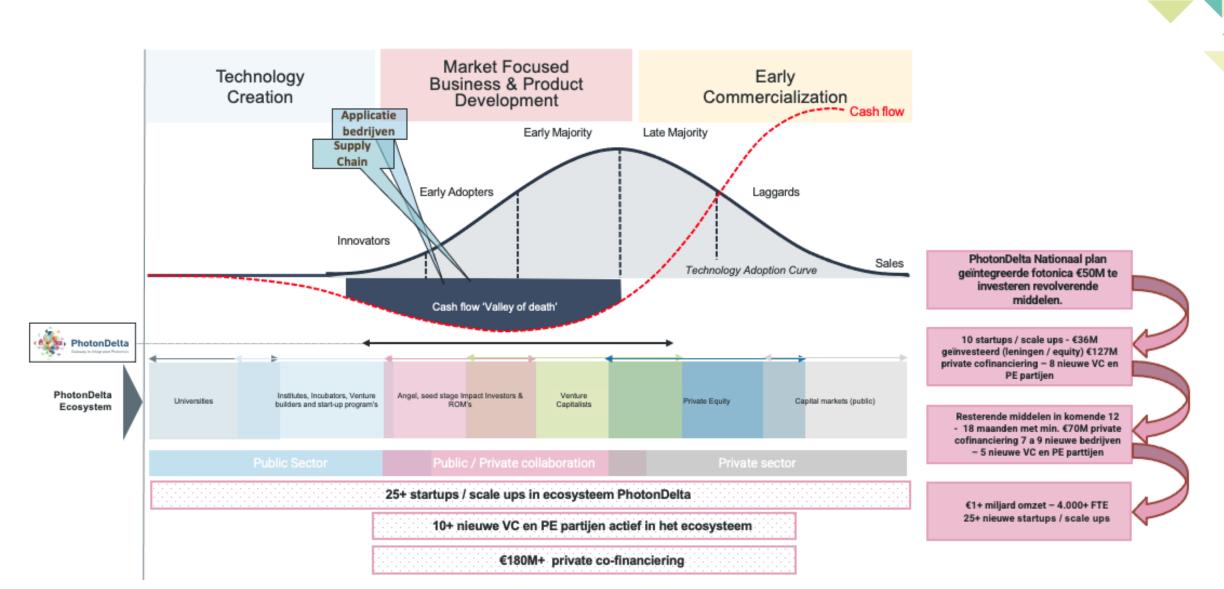


Focus areas of our funding activities

- Integrated Photonics
- ▶ Early stage and Valley of Death investments
- Connection to the Dutch ecosystem
- ▶ Tickets for € 250.000 up to approx. € 3.000.000
- A minimum of 50% of co-investments is essential
- ▶ CLA, equity and supportive debt financing instruments
- ▶ To enable 10x communication and processing



Focus area: Seed and Valley of Death investments



Focus area: integrated photonics markets

Sensing

Computing Very long-term

Highest volume market, mid/long-term



Datacom and Telecom

market

Optical transceivers for ultra-high data transfer for short-haul/metro telecom fiber-based access networks/datacentres

- Optical transceivers and components for high-throughput, secure, (longhaul) free-space communications links
- Optical-domain RF beamforming and optical phased arrays modules for satellite, mobile and wireless communications



Continuum-of-Care

- Optical modules and components for low-cost (portable) Optical Coherence Tomography (OCT) devices for point-of-care/home diagnostics and monitoring
- Low cost label-free biosensing disposables/readers for point-of-care diagnostics
- ► (Fiber-based) Sensor systems and components for multi-point multi-parameter guidance and monitoring



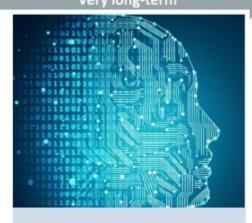
Infrastructure & Transportation

- Optical front-end modules and key components (e.g. tunable lasers, optical phased arrays) for coherent solid-state LIDARs in decision support/ autonomous control systems
- (Fiber-based) Sensor systems for real-time accurate distributed structural health monitoring in (large)/high-duty objects and structures



Food and Agriculture

- NIR spectral sensing modules and components for analysis of fruit and vegetables nutrients, taste and structure insights
- VIS/UV absorption and Raman spectroscopy sensing modules for e.g. nitrate/phosphate monitoring in water and soil

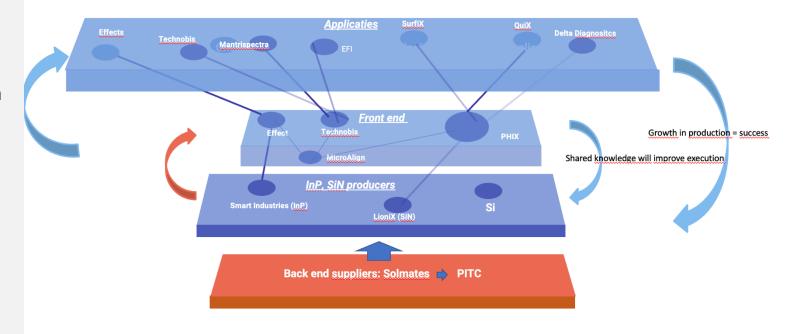


- Dedicated (programmable) components for faster, lower power implementation of AI (neural networks/deep learning) algorithms, complex signal processing/vector and/or quantum computing
- Dedicated storage unit through combination with other technologies (spintronics)

Positioning of PhotonDelta funds

Our approach:

- Integrated Photonics
- Investments: 50% in supply chain+ 50% in applications.
- ▶ Focus on building the ecosystem
- Always invest with co-investors
- Supportive investments





Want to know more about our funding opportunities?

Get in touch via projecten@photondelta.com

