

Actieagenda voor NTS Optical Systems & Integrated Photonics

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ASML

Signify



Ministerie van Economische Zaken



TU Delft 4TU.



PhotonicsNL

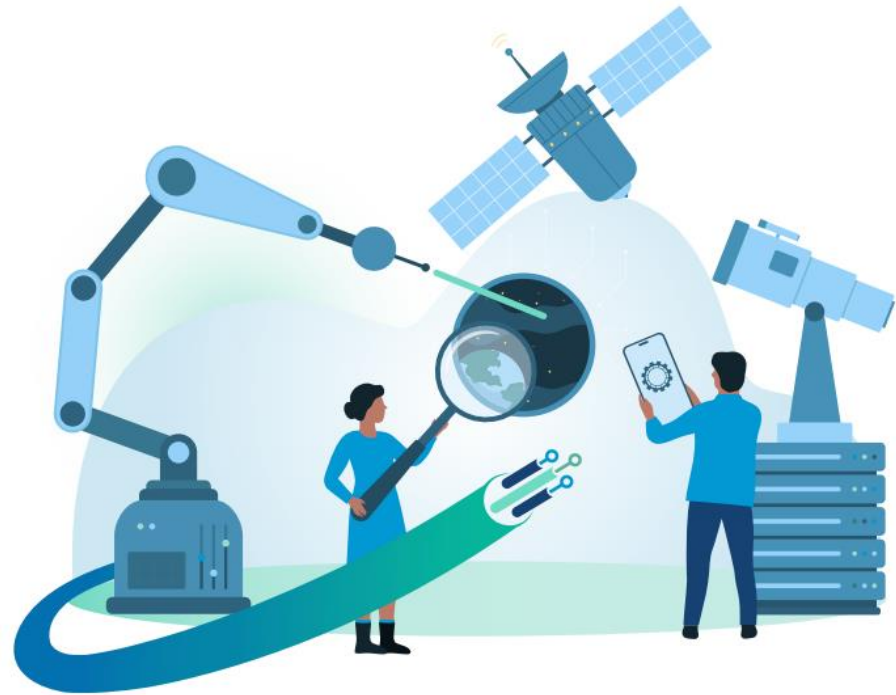
PhotonDelta

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Optics & Photonics In The Netherlands

NTS Optical Systems and Integrated Photonics ambition:

In 2035, the Netherlands is the world leader in developing and producing next-gen systems based on optics and integrated photonics. By continuously innovating, we grow faster than the competition and contribute to national security and economic independence.



Contribution to society

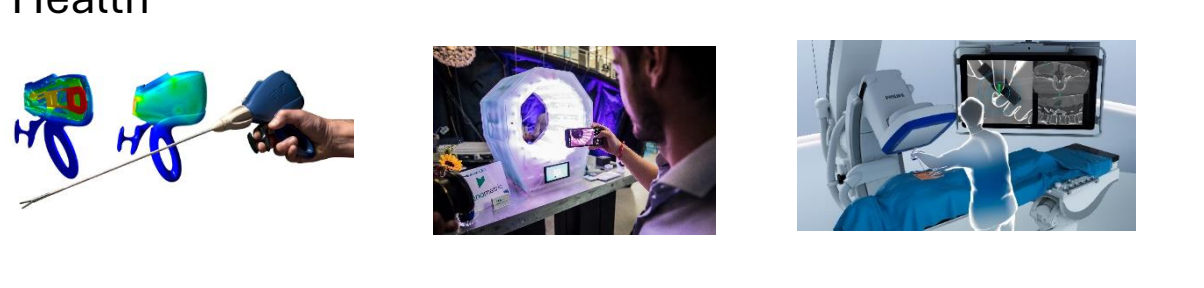
a long-standing track record

Energy transition & Sustainability




This block illustrates contributions to energy and sustainability. It features a lightbulb with a solar panel inside, a water filtration system, and a satellite with a weather map below it.

Health



This block illustrates contributions to health. It features a hand using a handheld ultrasound device, a person using a medical device, and a person in a hospital bed with a monitor.

Agriculture, Water & Food



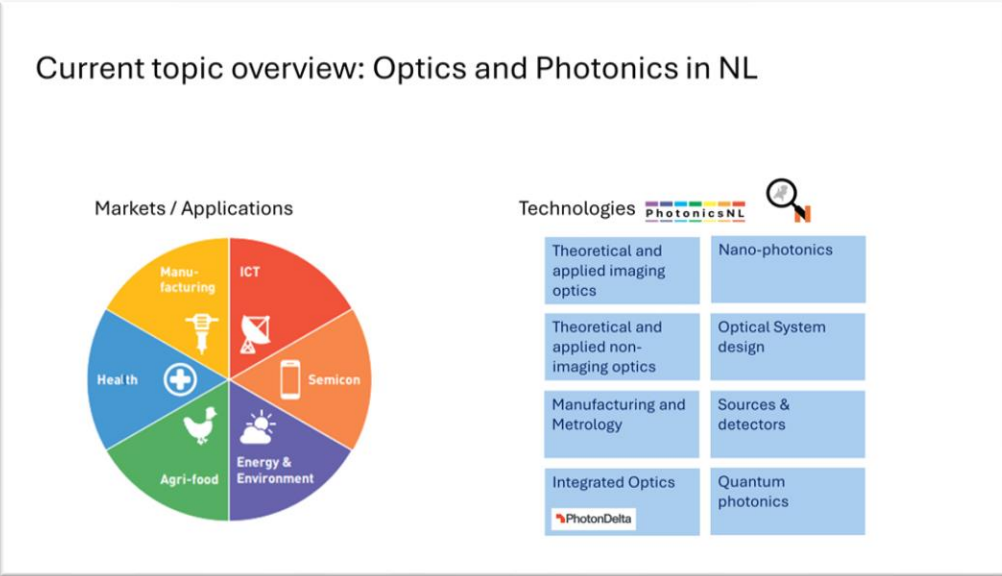
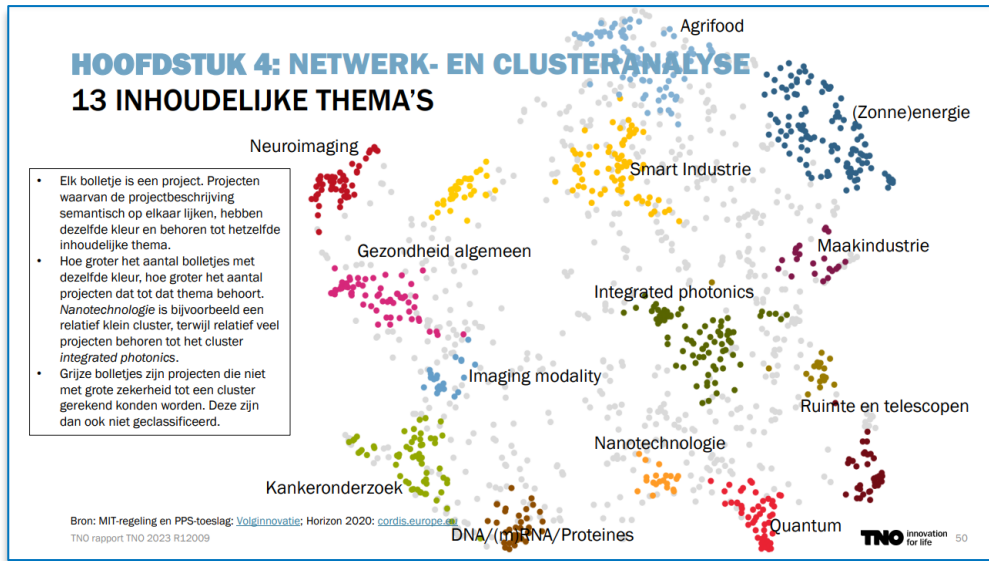
This block illustrates contributions to agriculture, water, and food. It features a close-up of red tomatoes, a green tractor, and a large industrial water filter.

Safety & Security



This block illustrates contributions to safety and security. It features a person using a handheld device, a satellite in space, and a person in a control room.

Optical ecosystem



HOOFDSTUK 3: UITKOMSTEN KWANTITATIEVE ANALYSE

GEMIDDELDE JAAROMZET 2015-2020

De totale en gemiddelde jaaromzet is berekend zonder én met de aannames voor het aandeel gerelateerde fotonica-activiteiten. [Bijlage 2](#) presenteert nog meer gedetailleerde omzetcijfers.

Gemiddelde jaaromzet 2015-2020	gecorrigeerd voor aandeel fotonica (aantal samenwerkingsprojecten)	gecorrigeerd voor aandeel fotonica (omvang samenwerkingsprojecten)	niet gecorrigeerd voor aandeel fotonica
Onbekend (N)	13% (127)	13% (127)	12% (124)
< 10.000 euro (N)	2% (22)	2% (25)	2% (16)
10.000 - 100.000 euro (N)	10% (97)	10% (102)	5% (53)
100.000 - 250.000 euro (N)	10% (104)	10% (99)	8% (85)
250.000 - 500.000 euro (N)	11% (106)	11% (109)	7% (75)
500.000 - 1 miljoen euro (N)	8% (79)	8% (80)	10% (97)
1 miljoen - 2,5 miljoen euro (N)	12% (123)	13% (130)	13% (127)
2,5 miljoen - 5 miljoen euro (N)	9% (91)	8% (83)	9% (95)
5 miljoen - 10 miljoen euro (N)	6% (59)	6% (61)	7% (70)
10 miljoen - 100 miljoen euro (N)	14% (138)	13% (133)	17% (169)
> 100 miljoen euro (N)	5% (55)	5% (52)	9% (90)
Totaal (N)	100% (1001)	100% (1001)	100% (1001)
Median	€ 1.2 miljoen	€ 1.2 miljoen	€ 2.3 miljoen
N	874	874	874
Totale gemiddelde jaaromzet 2015-2020	€ 40,2 miljard	€ 33,4 miljard	€ 148,1 miljard

Dutch Optical & Photonics Landscape

Optics Netherlands

- Research
- Education
- Innovation

- All technologies



PhotonicsNL

- Branche organisation
- Networking/Events
- Intl. representation

- All technologies



PhotonDelta

- NGF
- Programme mngt
- Intl representation

- Integrated photonics

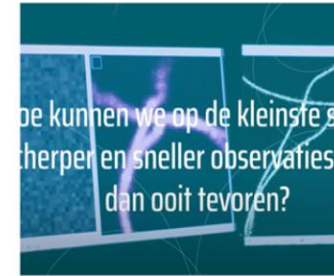


Networking & Events HHT Pavilion



Research

NL
Holland
High Tech
Global Challenges.
Smart Solutions.



Talent



Education



Talent & education



MPOP MasterPlus
Optics &
Photonics

TU Delft, TU Eindhoven and University of Twente, Optics Netherlands and Photon Delta joined hands to start a pilot for a national Master in optics and photonics as a specialization within one of their Masters. Students can discover specialized courses, unique internships within industry-leading companies, challenge-based projects, first-hand experience of high-tech spin-offs and a dynamic array of scientific and social activities within the vibrant optics & photonics ecosystem.

NTS 2024

De 10 prioriteiten

- Optical systems and integrated photonics
- Quantum technologies
- Process technology, including process intensification
- Biomolecular and cell technologies
- Imaging technologies
- Mechatronics and optomechatronics
- Artificial intelligence and data science
- Energy materials
- Semiconductor technologies
- Cybersecurity technologies

Wat is er nodig?



Talent Aantrekken, behoud en doorontwikkelen (top)talent, op alle niveaus



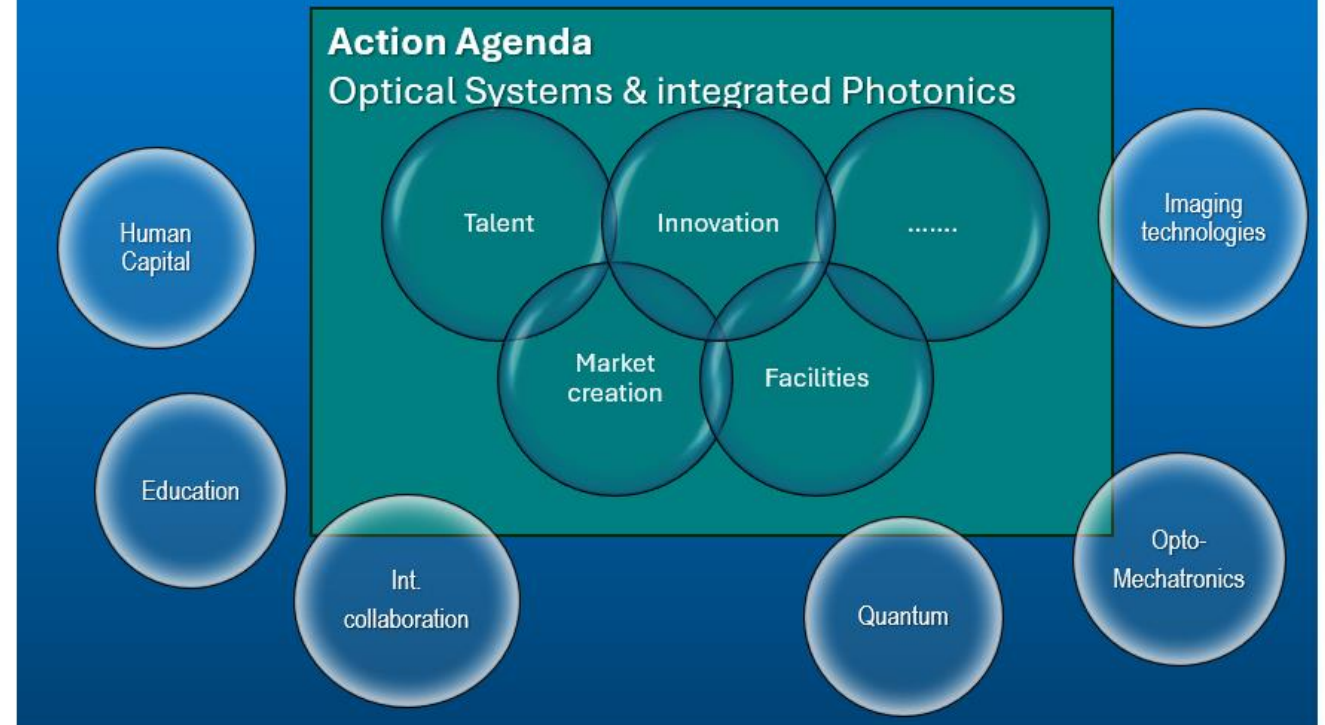
Faciliteiten Voldoende opschalingsfaciliteiten voor de ontwikkeling en toepassing van technologieën



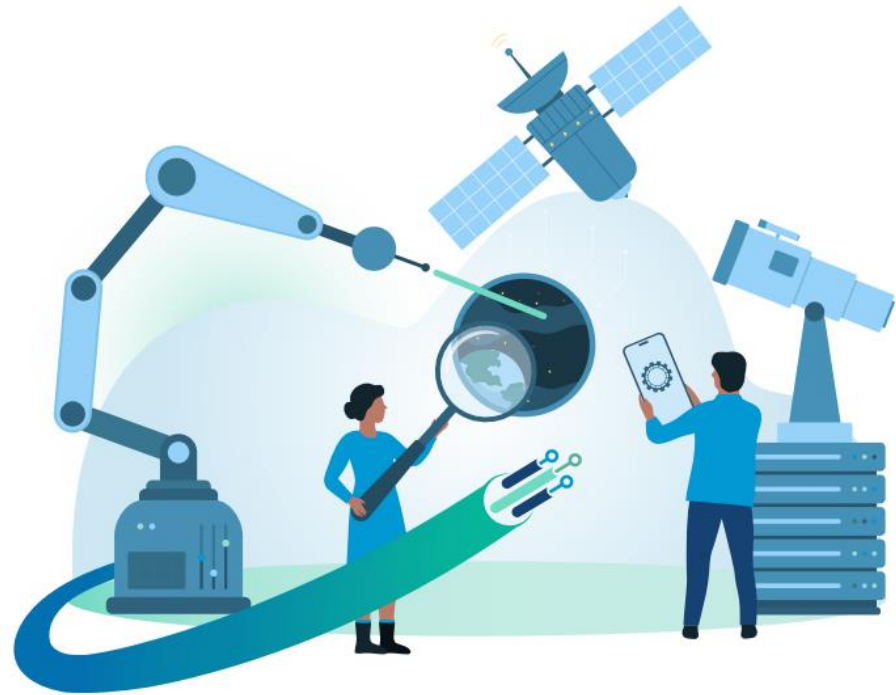
Financiering en marktcreatie Zorg voor voldoende opschalingsfinanciering en goede markttoegang. Kijk waar de overheid als launching customer op kan treden

How to achieve ambition

integral Plan Optics & Photonics iPOP



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