



NL



Holland High Tech
Global Challenges, Smart Solutions



Photonics, key technology in the Netherlands

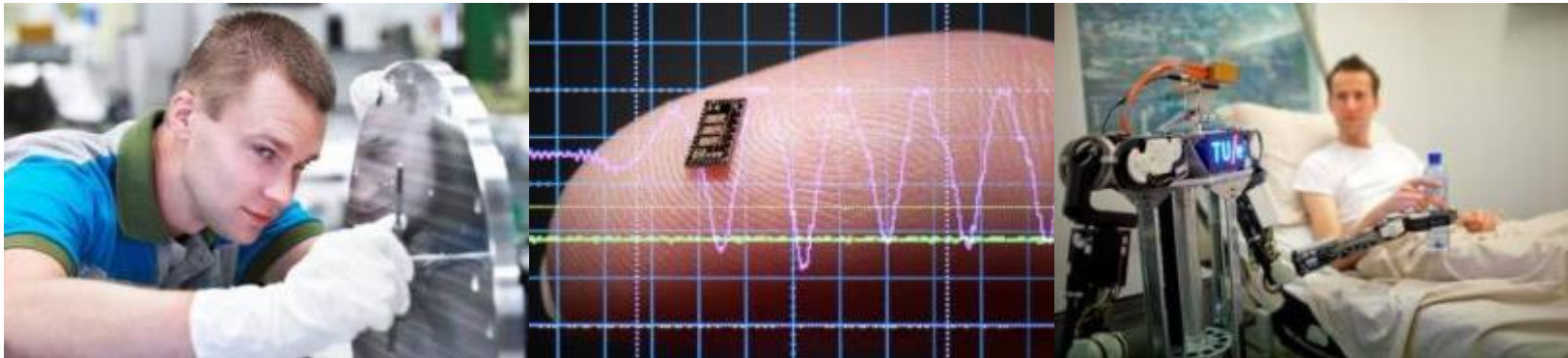
General overview of the photonics sector in the Netherlands



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Photonics is part of Holland High-Tech

- **Leading in high-tech equipment, components and materials**
- Important part of NL export value and many working people
- Investments in R&D annually

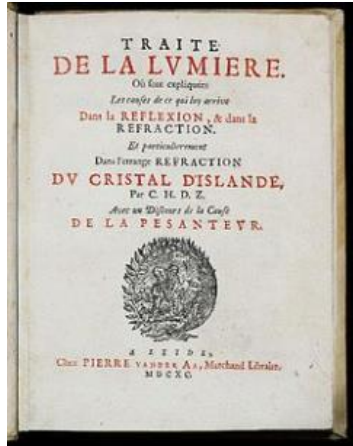


Advanced Instrumentation
Aeronautics
Automotive
Electronics
Healthcare
High Tech Materials
Lighting
Nanotechnology
Photonics
Printing
Security
Semiconductor Equipment
Smart Industry
Space
Systems Engineering

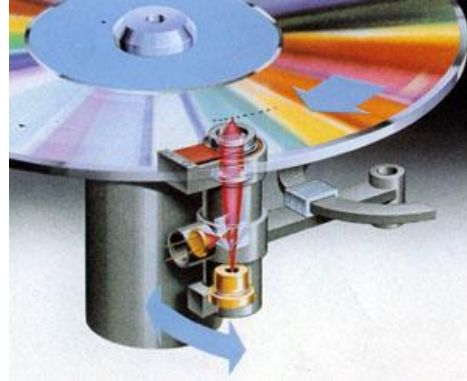
A long tradition in photonics



Antoni van Leeuwenhoek
Microscope 1632-1723



Christian Huygens
'Traite de La Lumiere'
1690



Philips CD Player 1979

Rich experience since 17th century

- Christiaan Huygens, Antoni van Leeuwenhoek
- +/- 350 years of optical instruments
- 175 years of technical innovations
- 100 years technological developments
- 50 years optical instruments in space (ESA, ESO, NASA)
- 25 years experience with optical instruments in Semicon

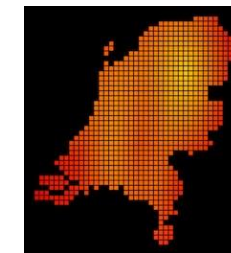
Resulting in



Photo TNO

- **16 research institutes**
- **Big internationals like Philips and ASML**
- Many **hightech and innovative** SMEs in Photonics
- **Unique supply** chain for manufacturing
- An **international** eco-system
- **Excellent Knowledge position and infrastructure**
- Hightech photonics **solutions for various applications**

Brighten your market with Dutch Photonics



Network
Education
Building the bridge



*“Collaboration between
knowledge institutes,
companies and government.”*



Netherlands Enterprise Agency



Ministry of Economic Affairs
and Climate Policy



Dutch
Optics
Centre
a TNO and
TU Delft initiative

- NETWORK
- EDUCATION
- RESEARCH
- DEVELOPMENT
- INNOVATION



Holland High Tech
Global Challenges, Smart Solutions

Photonics NL – Dutch Association for Photonics

PhotonicsNL Board:



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Benno Oderkerk

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Board Member
(PhotonDelta)



Steven Goetstouwers

Board Member
(Admesy)



Pieter Kramer

Secretary
(Laser 2000)



Erwin Bomert

Treasurer
(LioniX International)



Sylvania Pereira

Board Member Education
Delft University



Paul Urbach

Board Member
(Dutch Optics Centre/University of Delft)

<https://www.photonicsnl.org>

Examples of Dutch Photonics entities



PhotonDelta
Gateway to Integrated Photonics

Dutch Optics Centre
a TNO and TU Delft initiative



FRAUNHOFER PROJECT CENTER
AT THE UNIVERSITY OF TWENTE



UNIVERSITY OF TWENTE.





Active in EU Photonics Partnership and EU Projects

20-4-2021

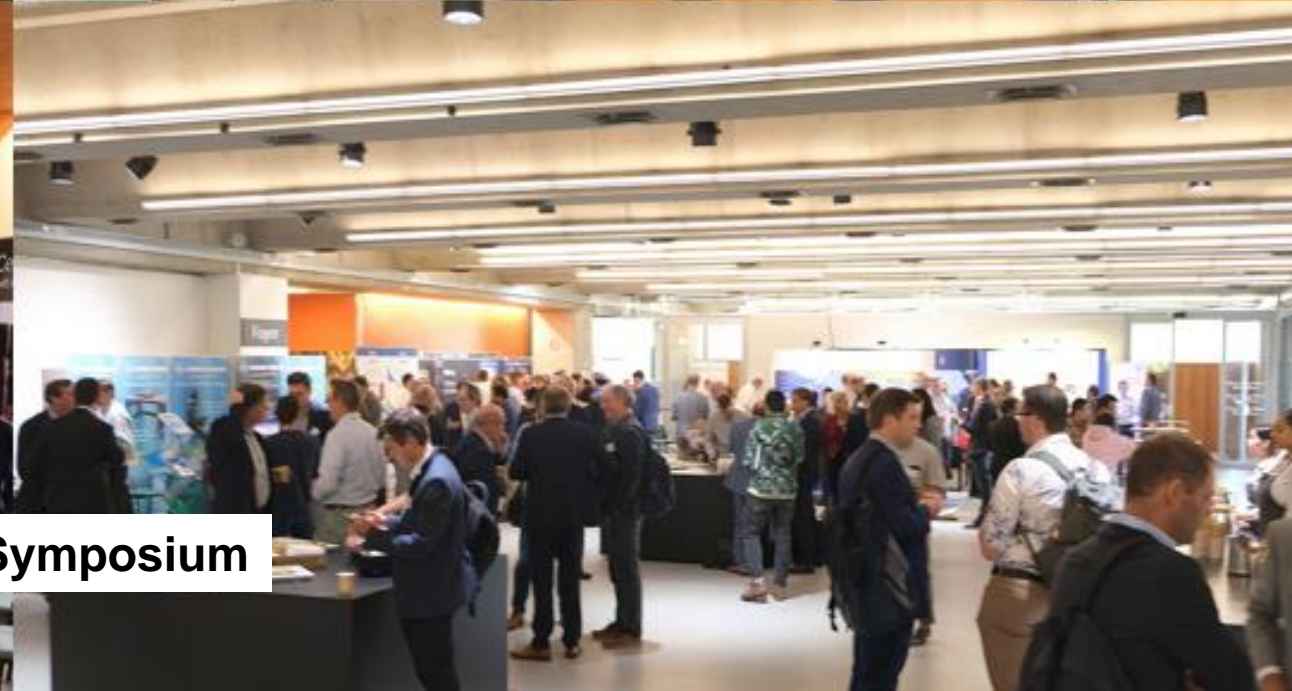


Connecting the ecosystem during company visits

20-4-2021



Connecting the ecosystem during company visits



National Symposium



Coordinating Dutch presence and networking during international exhibitions

20-4-2021



Coordinating Dutch presence and networking during international exhibitions



20-4-2021

Wishing you a great Symposium

On the Israeli and Dutch Photonic Integration Technology

Looking forward to see you all connect today for future cooperation



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