

10 Reasons

Why
greater
Rotterdam
The Hague
is the
**Hotspot for
Optics**



Turn the
page and
explore!

10 reasons why greater Rotterdam - The Hague is the **hotspot** for optics

Greater Rotterdam - The Hague contains a unique optics cluster. It includes the complete chain of academic knowledge & research, application development and original equipment manufacturers (OEM's) combined with a wide range of component suppliers to industries like aerospace, agriculture & food, ICT, maritime, health & life science equipment, automotive, manufacturing industry, energy, infrastructure, building & construction, semicon. We present our top 10 reasons to cooperate with or invest in our region:

10 REASONS WHY

1 ACCESS TO KNOWLEDGE & TALENT

TU DELFT

15+ research groups working in optics, 24.000 students, 6000 graduates every year.

Universities of Applied Sciences

Leiden, The Hague & Delft Mechatronics and Precision Engineering, 1000 students

Leidse

Instrumentmakers School:

Senior Secondary Vocational Education and Training, 300 students

2 RESEARCH & INNOVATION

TNO, the Netherlands Organisation for applied scientific research
VSL (National Metrology Institute)



200+

professionals working on optical instrument development

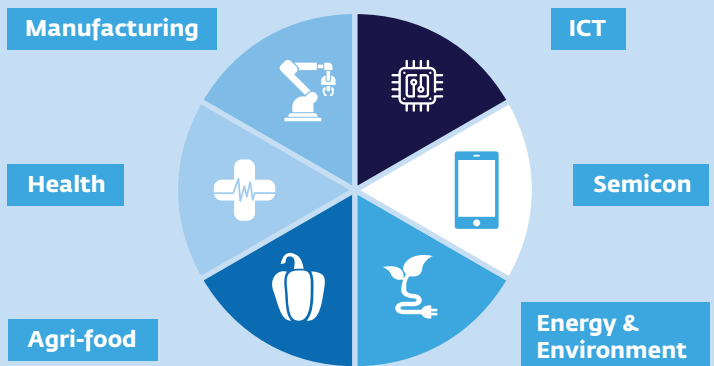
3 AREAS OF TOP EXPERTISE

- Imaging
- Spectroscopy
- Nanophotonics
- Optomechanronics
- Optics Design & Manufacturing
- (Fiber) Sensors
- Biomedical optics
- Vision and AI

4 INNOVATION HOTSPOTS

Fieldlabs:

- [Dutch Optics Centre](#) (all application areas)
- [RoboValley](#) (Industrial robotics)
- [SAMXL](#) (Smart advanced manufacturing)
- [Medical Delta](#) (Life Sciences & Health)
- [Big Data Innovation Hub](#)



5 DUTCH OPTICS CENTRE

Dutch Optics Centre (DOC) aims at boosting the optics industry by increasing utilisation of science through joint R&D. Covering the entire value chain from academia to industry in research and development projects supported by networking, education activities and assistance for startup companies.

300+ companies in the Netherlands are active in photonics with a total turnover of **EUR 5.500 million**. 10% of the **5.500 million** is reserved for R&D in optics



6 SHARED LAB FACILITIES

- [VLL](#): Van Leeuwenhoek Laboratory is with its cleanrooms one of the largest nanotechnology research facilities in the Netherlands
- [VLLAIR](#): Van Leeuwenhoek Laboratory for Advanced Imaging Research
- [EKL](#): Else Kooij Laboratory for semiconductor research & manufacturing
- [TU Delft Aerospace Structures and Materials Laboratory](#)
- [QuTech quantum lab](#) is the advanced research centre for Quantum Computing and Quantum Internet



7 LEADING COMPANIES



8 INCUBATOR

Ranked in top 5 in world university business incubators

YES!DELFT

PLNT LEIDEN

ESA BIC

ERASMUS CENTRE OF ENTREPRENEURSHIP

9 (INTER)NATIONAL RESEARCH AND EDUCATION ECOSYSTEM

4TU Federation

Universities: [TU Delft](#), [TU Eindhoven](#), [University of Twente](#), [Wageningen University](#).

(Research) ecosystem: [Photon Delta](#), [PhotonicsNL](#), [Holst Centre](#). (inter)

national ecosystem: Innovation Attaché Network (RVO), Dutch Embassies and Consulates.

DOC: [Dutch Optics Centre](#).



(IMEC) INTERUNIVERSITY

Microelectronics Centre: is an international research & development organization, active in the fields nanoelectronics and digital technologies.
SPIE, the international society for optics and photonics
EPIC: European Photonics Industry Consortium **Photonics21** (represents the photonics community of industry and research organisations)

10 SUCCESS STORIES

Airbus Defence and Space Netherlands:

satellite instruments for monitoring worldwide air quality and climate, and satellite solar arrays

Kipp & Zonen: solar and atmospheric science instruments

TNO & TUD: R&D enabling ASML's wafer steppers, solar powered vehicles, and quantum communication

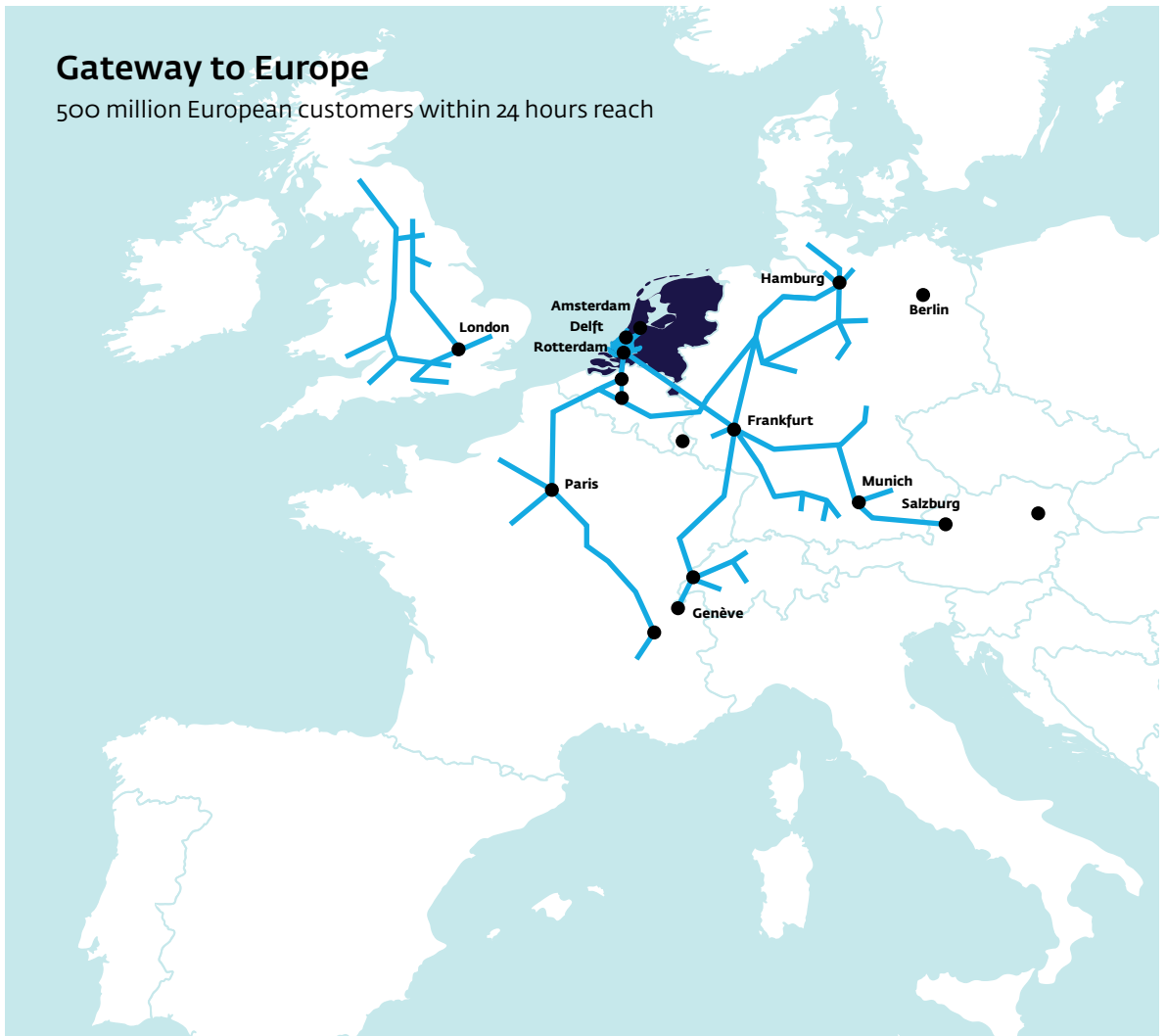


Innovation Quarter

invest & innovate in
Greater Rotterdam - The Hague

Gateway to Europe

500 million European customers within 24 hours reach



InnovationQuarter is the regional economic development agency for the province of Zuid-Holland, also known as the greater Rotterdam – The Hague area. We provide free of charge assistance and advice to international companies interested in expanding to our region. In addition, we facilitate co-operation between companies, academic institutes & government and we invest in innovative and fast-growing businesses in the region.

OUR REGION OFFERS YOU

- A strategic location in the heart of Europe
- State-of-the-art business, research and incubation facilities
- Highly educated and multilingual workforce
- Excellent quality of life
- A competitive tax climate
- Advantageous tax incentives for R&D activities
- A dedicated foreign investment team, offering confidential, free of charge services to international companies.



**Innovation
Quarter**

*invest & innovate
in Greater
Rotterdam – The Hague*

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