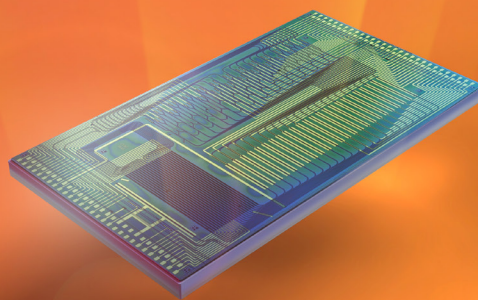


**BRINGING YOUR
INNOVATION TO LIFE**

**SMART
PHOTONICS**

CREATING THE NEXT GENERATION CHIPS



SMART Photonics is a pure play foundry, providing a broad range of customers the ability to outsource the manufacturing process for photonic chips. Together with our customers we create innovative products to improve people's lives.

The next generation chips

Photonics uses photons (light) to transfer and process information. Photonic chips, also called photonic integrated circuits (PICs), integrate photonic functions into microchips to create smaller, faster and more energy-efficient devices. SMART Photonics manufactures Indium Phosphide (InP) based chips; the only material suitable for high performance at low system cost.



MORE DATA



**INCREASED
SPEED**



**IMPROVED
RELIABILITY**



**LOWER
COST**



**SMALLER
FORM FACTOR**



**LESS POWER
CONSUMPTION**

**Performance improvements enable a large number
of commercial applications**

InP photonic chips can play a pivotal role in addressing societal challenges and trends, including:

- The increasing power consumption in data- and telecom
- The rise of assisted and autonomous mobility
- The rapidly rising costs of healthcare and the drive to personalise health



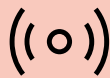
Best scalable technology platform

InP photonic chips provide the best scalable technology platform to cater several markets, including datacom, telecom and automotive.



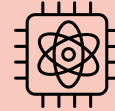
Communications

- Telecom
- Datacom



Sensing

- Light detection and ranging (LiDAR) for the automotive sector
- Biomedical sensing and wearables



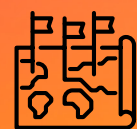
Quantum

- Encrypted communications

SMART Photonics well positioned to play leading role

Based on
**High Tech
Campus
Eindhoven**

Over **[150]** fte's
approx. 20% holding
a PhD degree



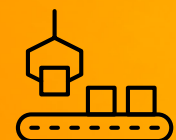
Over **40**
nationalities

**Active customer
base with fast
growing pipeline**



State of the art production facility

- Current production capacity of 5,000 wafers
- Back-end, testing and layer growth capabilities



SMART Photonics offers highly comprehensive Process Design Kit

Process Design Kits (PDKs) provide fabless customers with a set of standardised 'building blocks' that perform certain functions on a chip and can be combined in multiple ways, leading to very different functionalities for a broad range of end-markets.



50+
proprietary
building blocks



10+
years refining
PDK building blocks

PDKs help customers to develop chips more quickly and at lower cost, thereby speeding up the development process.

Ready to scale with proven commercial business model

From proof of concept to high volume production – an envisioned capacity of 50,000 wafers

A large ecosystem of fabless designers, system integrators, design tool providers and packaging companies.



DESIGN



MANUFACTURING
(FOUNDRY)



TESTING

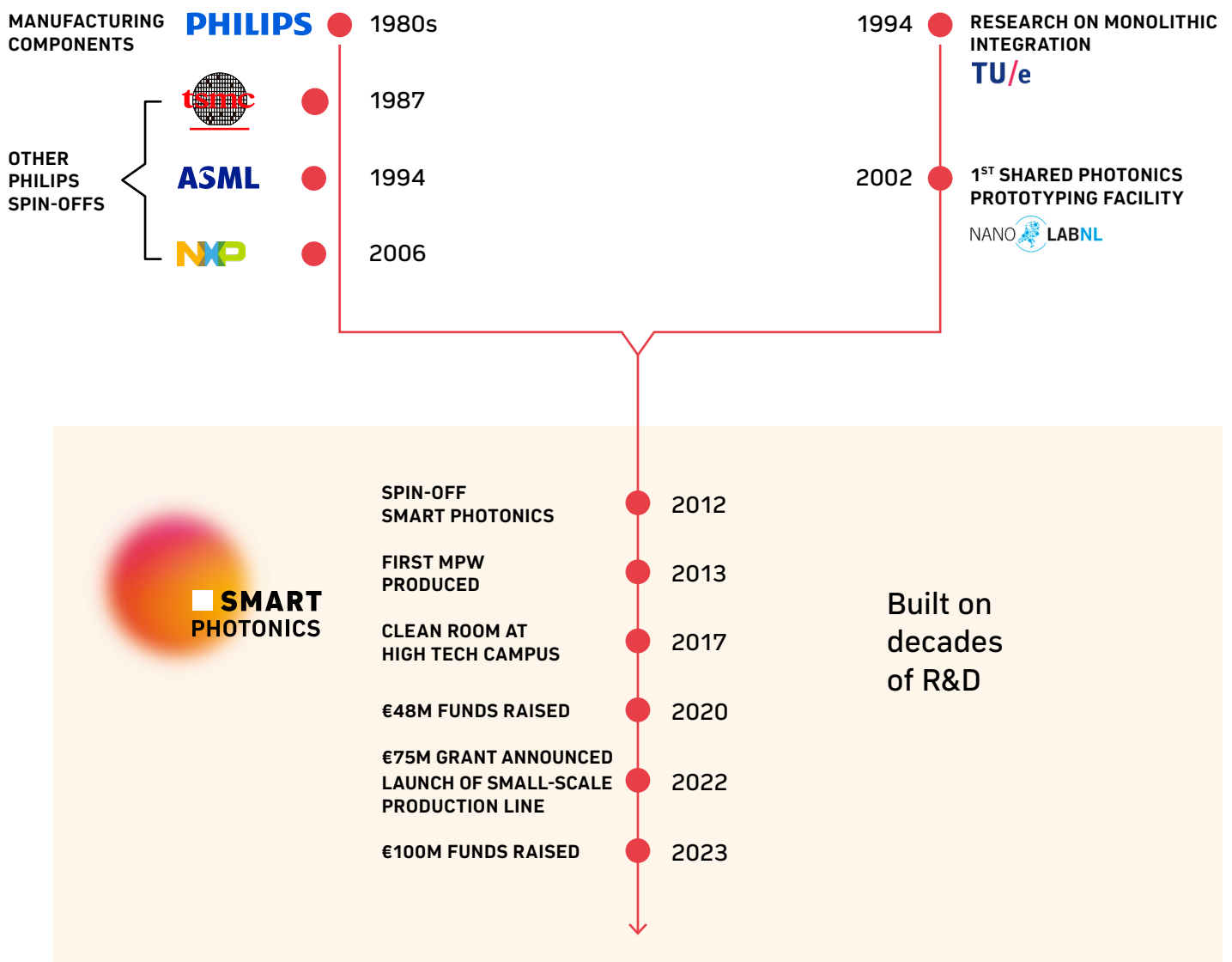


PACKAGING

We aim to be the leading foundry for integrated photonics, creating innovative products that improve people's lives.

SMART Photonics is built on decades of R&D

SMART Photonics benefits from 30 years of research and development.



SMART Photonics
High Tech Campus 29
5656 AE Eindhoven
The Netherlands

WWW.SMARTPHOTONICS.NL

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