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.

Performance improvements enable a large number of commercial applications

- More data
- Increased speed
- Improved reliability
- Lower cost
- Smaller form factor
- Less power consumption

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

**Best scalable technology platform**

SMART Photonics well positioned to play leading role

![Communications](image)
- Telecom
- Datacom

![Sensing](image)
- Light detection and ranging (LiDAR) for the automotive sector
- Biomedical sensing and wearables

![Quantum](image)
- 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

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

Over 40 nationalities
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.

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.

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.

MANUFACTURING COMPONENTS

OTHER PHILIPS SPIN-OFFS

1980s

1987

1994

1995

1998

1995

1998

2002

1994

2002

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