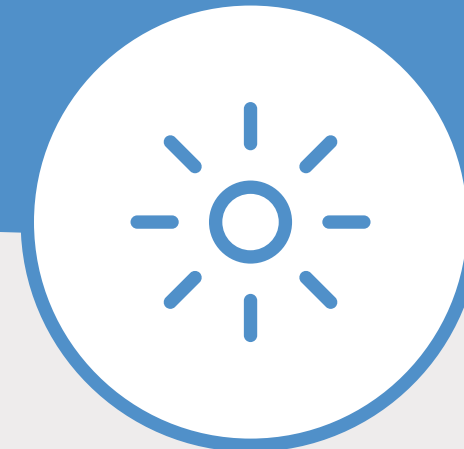




European
Commission

Interregional partnership for Smart Specialisation on **PHOTONICS**

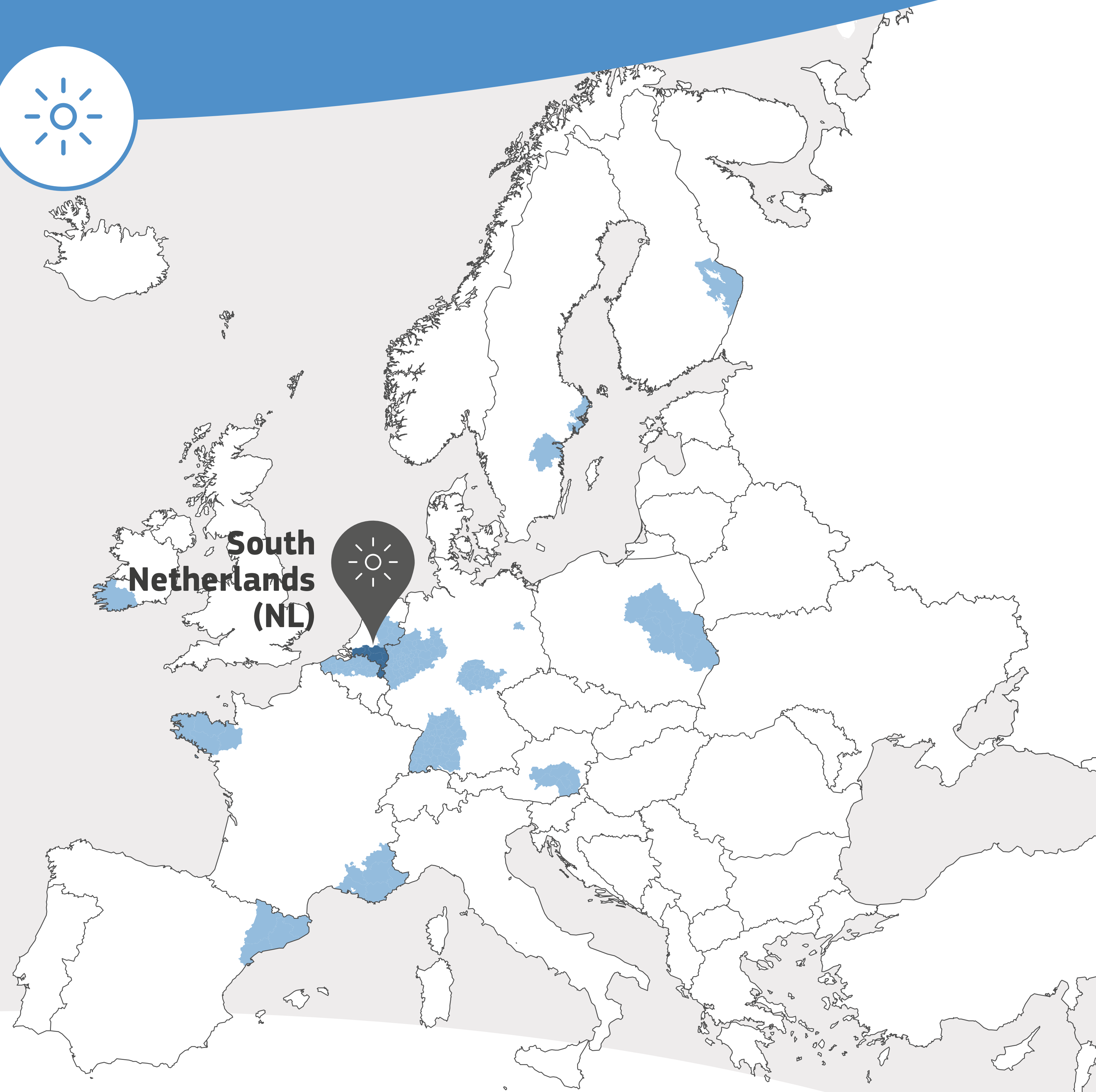


Leaders

Led by **South Netherlands** (NL), the partnership engages the participation of

17 REGIONS

Our goal is to accelerate broader use of photonic technologies across Europe between now and 2030. The Alliance achieves this by amplifying existing inter-regional initiatives, and when needed, kick-starting new pilot projects.

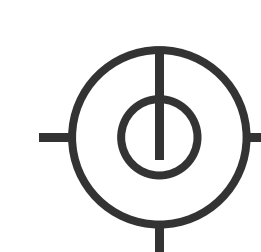


Reference topics

Photonics is already having a knock-on effect in different sectors of society, including healthcare (precision tools in surgery), secure 5G communications, Ultra-Secure Quantum computing, self-driving vehicles (LIDAR), infrastructure monitoring in aircraft, food safety tests for pathogens as well as environment monitoring both on earth and from space.

Four pilots are in preparation:

- 1 Volume manufacture of Photonics Integrated Circuits (PICs).
Leader: Southern Netherlands (NL4)
- 2 Highly accurate sensing, measuring and imaging.
Leader: Provence-Alpes-Côte d'Azur, France (FR82)
- 3 Higher Capacity Optical Fibres for Industry.
Leader: Mazovia (PL12)
- 4 Pilot Facility for volume Photonics-based Manufacturing.
Leader: North-Rhine Westphalia (DEA)



Key factors

Money is made in manufacture, not R&D. Volume manufacture in Europe of photonic integrated circuits is vital for Europe to remain a global player in an era of Zettabyte communications and 50 billion IoT devices.

We are building a formal alliance of EU regional clusters with significant activities in photonics. The initial focus on activities is on optimising the use of existing infrastructure in the regional clusters by sharing these expensive, specialist resources (in line with Vanguard Initiative). Duplication of efforts must be avoided.

The EU Photonics Alliance aims to provide one-stop-shop access to key initiatives and capabilities across EU. Because of the complex, expensive nature of these (nano)technologies, Europe needs an inter-regional collaborative approach for successful scale up of Photonics companies. The partners wish to maintain EU's lead in the development of Photonic Integrated Chips. Scaling up to volume manufacture of chips and products is essential for a financially, socially and environmentally sustainable industry.



SmartSpecialisation
@S3Platform

Joint
Research
Centre

