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Photonics industry

Economic Key Data

Photonics World

- Market growth from 350 billion Euro in 2011 to ~615 billion Euro in 2020
- Market grows at twice the world economic growth rate

Photonics in Europe

- Production Volume > 60 billion Euro
- Excellent global market position:
 - ◇ 55% Production Technology
 - ◇ 40% Optical Components & Systems
 - ◇ 35% Measurement & Automated Vision
 - ◇ 30% Medical Technology & Life Sciences
 - ◇ 30% Safety & Defence Systems
- Strong export position > 68%
- Innovative high tech industry: 9–10% R&D quota far above industry average
- Leverages at least 10% of the European economy
- Employs 350,000 people directly

Strong growth & huge impact

Current industry trends like digitalisation, resource efficiency, individual and zero failure production will drive further growth of the photonics industry. Competing economies like US and Asia recognise the strategic impact of photonics and significantly increase investment in the sector.

References: European Commission: The Leverage Effect of Photonics Technologies – the European Perspective; BMBF, Spectaris, VDMA, ZVEI: Photonics Industry Report

Our partners – Photonics National Technology Platforms join forces to implement the Photonics PPP strategy

National Technology Platforms, also representing regional clusters, closely cooperate with Photonics21 to implement the Photonics21 PPP roadmap. Many of the platforms have developed national strategic research roadmaps based on the Photonics21 strategy, but tailored to member state community specificities and strengths.

Become part of the Photonics21 community

Register on our website: www.photonics21.org

Inform

Inform about latest photonics news, events and European funding opportunities.

Join

Become part of the European photonics community. Photonics21 membership is built on a personal membership and is free of charge.

Meet

Meet other European photonics experts in the Photonics21 work groups and represent your research and innovation topics.

Network

Contribute to the Photonics21 work groups and network at the Photonics21 annual event.

Contact us

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Photonics

A key enabling technology, driving growth and employment in Europe





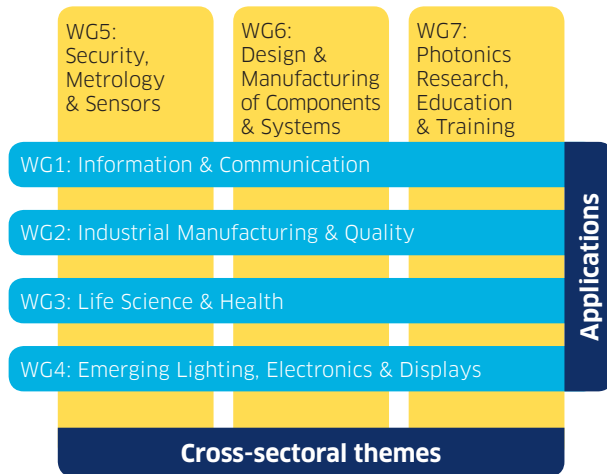
PHOTONICS PUBLIC PRIVATE PARTNERSHIP

Photonics21

A European Success Story

Founded in 2005 the European Technology Platform Photonics21 today represents more than 2500 personal members from all over Europe. Our members are experts of the photonics industry, research organisations and universities and voluntarily engage in Photonics21 to develop a joint photonics strategy for future research and innovation in Europe.

The European photonics community operates in seven Photonics21 work groups (WGs):



The Board of Stakeholders is the decision-making body. Up to 100 high-level representatives of photonics companies, research organisations and universities engage as members of the Photonics21 Board of Stakeholders.

The Photonics21 Executive Board performs the decisions by the Board of Stakeholders and represents Photonics21 towards the European Commission (EC). It is composed of the Photonics21 president, four vice-presidents and the Photonics21 work group chairs.

The Photonics21 members democratically elect the Photonics21 board.



Photonics has truly become a game changer.

EU Commissioner Günther Oettinger at the Photonics PPP Annual Meeting 2015

Photonics Public Private Partnership in Horizon 2020

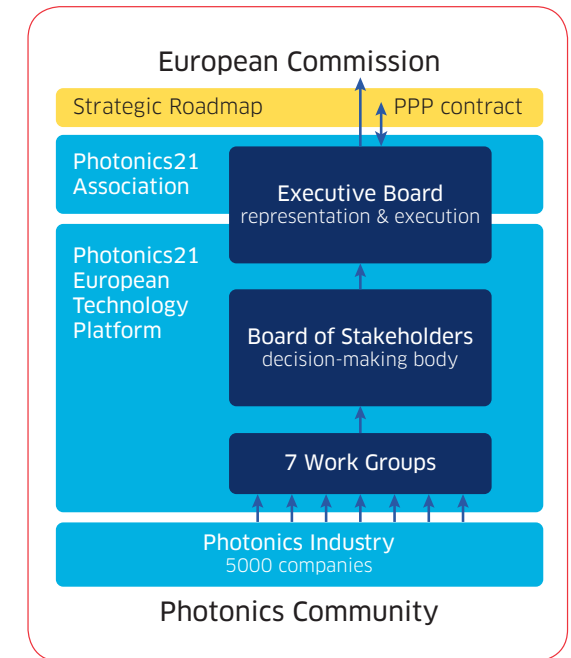
Growth and Jobs for Europe

The Photonics Public Private Partnership (PPP) represents a long-term commitment between the EC and the photonics stakeholders in Europe and aims to secure Europe's industrial leadership, economic growth and to generate new jobs. The European photonics industry made a strong commitment to significantly invest (up to 5.6 billion Euro) in research, innovation and manufacturing in Europe by matching every Euro spent by the European Commission in the PPP with 4 Euro by industry.

The seven year Multiannual Strategic Roadmap is the basis of the Photonics PPP, and underpins the proposed activities to stimulate photonics manufacturing and employment.

Based on the roadmap the photonics community agrees the photonics research and innovation priorities for the calls of the Horizon 2020 Work Programmes in an open, transparent and democratic bottom-up process.

The Photonics21 bottom-up community process: open, transparent & democratic



Photonics – contributing to solve major societal challenges, such as energy-efficiency, health, safety and sustainable manufacturing.