

Overall objective

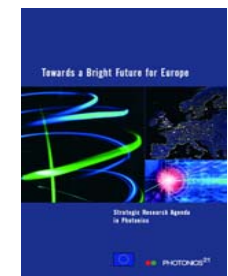
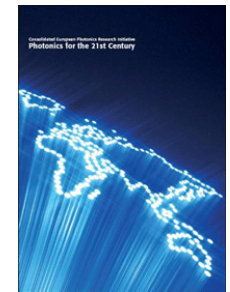
Paving the way for Europe's scientific, technological and economic leadership in Photonics and, in the long run, making Europe the number one knowledge-based economic area in the world.

Objectives pursued by Photonics21

- Establish strategic links and align common efforts in Photonics R&D;
 - Transform knowledge into leading-edge technologies and products which are competitive on a global scale;
 - Define medium to long-term research and technological development objectives;
 - Provide the necessary research environment capable of accelerating Photonics research.
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Photonics21: Genesis

- **Autumn 2004:** Launch of an industry-led Photonics initiative encouraged by the European Commission
- **February 2005:** Publication of the joint strategic vision paper “Photonics for the 21st Century”
- **December 2005:**
Foundation of the ETP Photonics21 in Brussels
- **April 2006:** Hand-over of the Photonics21 Strategic Research Agenda to Commissioner Reding



Photonics21 members: Status quo

- Today, *Photonics21* comprises more than 350 members from 27 countries, among these 21 EU Member States.
- Almost 50 % of the members come from industry, 50% from academia.
- About 3/4 of the industrial members represent SMEs.

Photonics21 unites the majority of the leading Photonics industries and relevant R&D stakeholders along the whole economic value chain throughout Europe.

The decision making bodies of Photonics21 are the Board of Stakeholders and the Executive Board

Photonics21 Executive Board

President:

Alexander von Witzleben, CEO Jenoptik

Vice Presidents:

Bernd Schulte, President EPIC

Paul Lagasse, IMEC, Director Intec Division

Malgorzata Kujawska, Warsaw University of Technology

Work Group Chairs:

Information
and
Communication

Giorgio Anania,
CEO Bookham

Industrial
Production/
Manufacturing &
Quality

Peter Leibinger,
CEO Trumpf
Lasertechnik

Life
Science &
Health

Michael Kaschke,
CTO Carl Zeiss

Lighting &
Displays

Peter Stormberg,
CTO Philips
Lighting

Security,
Metrology
& Sensors

Jean-Francois Coutris,
Vice President SAGEM

Design &
Manufacturing
of Components &
Sensors

Lars Thylen, Royal
Institute of
Technology

Photonics
Research,
Education &
Training

Chris Dainty,
European Optical
Society

Secretariat
Photonics21

VDI Technologie-
zentrum GmbH

Key Recommendations of Photonics21

- European Photonics industry and sciences need to join forces under a strong European umbrella
 - An increased public and private investment in photonics is needed
 - Clear responsibility for photonics within the European Commission is needed
 - A mirror group involving the relevant public authorities and funding bodies throughout Europe needs to be installed
 - The present gap between photonics science and industry in Europe needs to be bridged through enhanced collaborative research and respective funding
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Key Recommendations of Photonics21

- **Detailed technical recommendations of the Strategic Research Agenda need to be updated annually by the Photonics21 members**
 - Transnational and multilateral collaborative research projects should be stimulated through additional funding from the European Commission.
 - **The areas where R&D will lead to marketable products in ten years need to be identified in a systematic manner in order to derive specific roadmaps**
 - Photonics21 needs to seek cooperation with complementary Technology Platforms
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Potential contribution from MONA to Photonics21

MONA

Photonics21

Become part of Photonics21, e.g providing nanophotonic roadmaps for application oriented and cross-sectoral working groups of Photonics21

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