

EPIC TECHNOLOGY MEETING ON PHOTONICS IN DEFENSE

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Cluster for Photonics
and Fiber Optics

KEY NATIONAL CLUSTER



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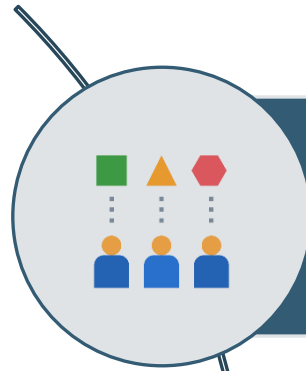
<https://klaster-fotoniki.pl/en/>



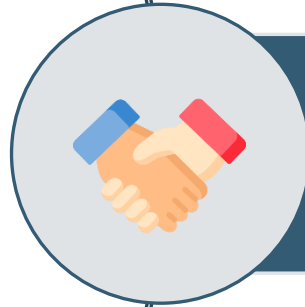
Cluster for Photonics and Fiber Optics

KEY NATIONAL CLUSTER

Founded in 2012



Photonics – Polish National Smart Specialisation



More than 60 members – companies, business units, universities



Key National Cluster – Clusters of significant importance for the country's economy and high international competitiveness



OUR GOAL

**Building a strong
photonics sector**
by supporting
breakthrough
innovations and mass
implementation of
photonics in the
industry

Innovation implementation support services:
EU funding, audits, HR, finance, IP

Own laboratory facilities

Collaborative industrial projects

Networking. Cooperation with public and private
entities in the country and abroad

Staff training for Industry 4.0



Cluster for Photonics and Fiber Optics

KEY NATIONAL CLUSTER

Over 300 R&D projects

Export to over 120 countries

Over 600 patent procedures
Patent grants in High-Tech countries

Over 50 implementations of
innovations



KRAJOWE
KLASTRY
KLUCZOWE



HORIZON
europe



MADE IN POLAND



Symbol
2021



Cluster for Photonics and Fiber Optics

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Optical fibers photonics technology
(IoT, 5G)

Photovoltaic energy systems



Optical fiber sensors

Quantum technology



3D printing

Nanotechnology



Our solutions are used in public and private sectors such as:



TELECOM

Innovative fiber optics for high capacity networks (5G)



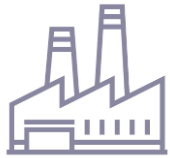
ENERGY

Grid security and integrity



SECURITY

Border and perimeter monitoring



PROCESS MONITORING

Pressure, strain and temperature control



OIL & GAS

Pipeline security, failure detection



MINING

Gases, temperature wear and seismic sensors



E-MOBILITY

Temperature distribution mapping



RAIL TRANSPORT

Infrastructure monitoring



AVIATION AND AUTOMOTIVE

Smart composites, wear monitoring



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