



LIETUVOS LAZERIŲ
ASOCIACIJA

EPIC member since 2014



AN OVERVIEW OF LASER INDUSTRY IN LITHUANIA

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Lithuania & Lasers

LIETUVOS LAZERIŲ
ASOCIACIJA  LITHUANIAN LASER
ASSOCIATION

World-recognized laser & photonics
community with a long history

- **1960 Theodore Maiman** discovered the laser
- **1964** Nobel price in physics on laser discovery
- **1966** first laser fired at **Vilnius University**
- **1970** a laser fired at the **Institute of Physics**
- **1983** pilot plant **EKSMA** was established

7 Universities & Centers:

> 200 employees,
≈ 50% PhD

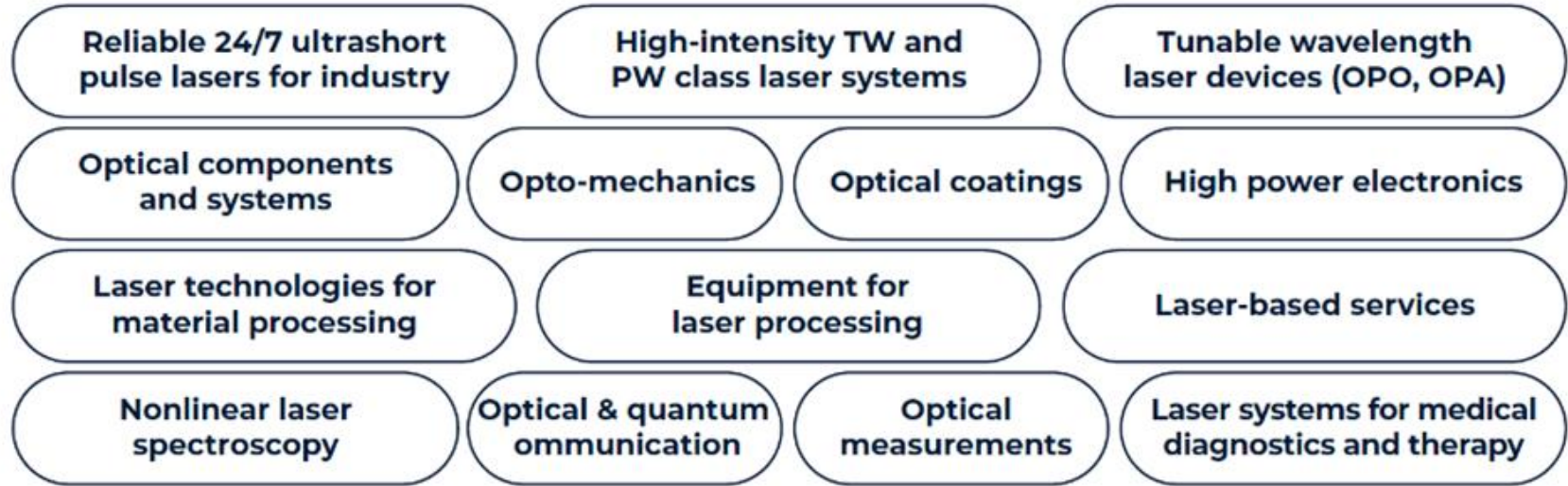
Business: > 50 Co:
> 1350 employees,
≈ 10% PhD

Sales: >176M€

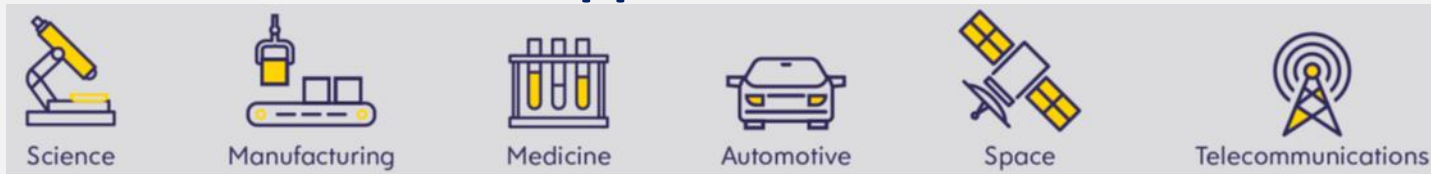
4 lasers & optics specialists
per 10,000 of population



CORE Competences



& Applications



Competences in laser development

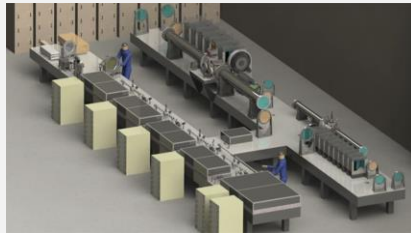
Ultra-high intensity lasers



SYLOS 2 laser, 4TW peak power for ELI-APLS, Hungary



Lithuania is a founding member of ELI ERIC



ELI Beam Lines L4 (Czech Republic, Prague)
EKSPLA & National Energetics (USA, Texas)

10 PW; 150 fs; pulse energy 1500 J.

Reliable industrial engines



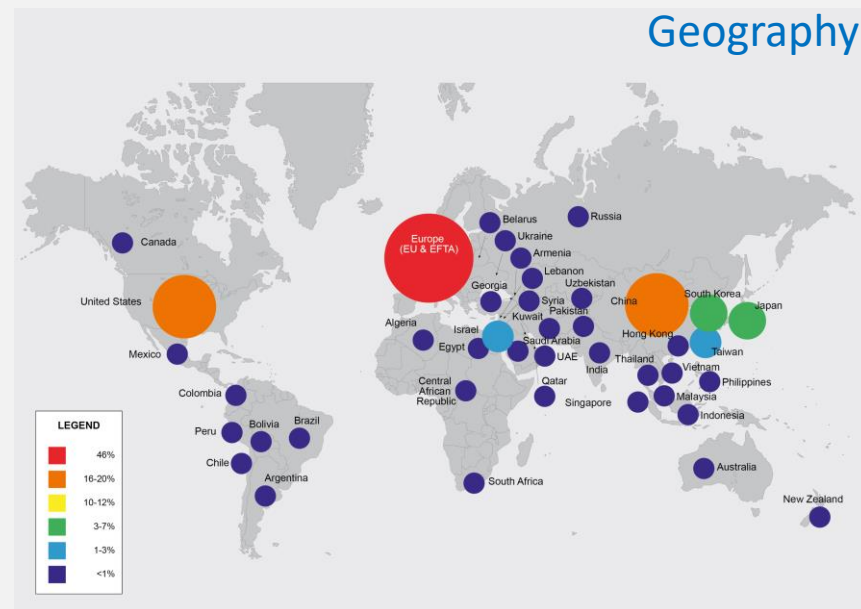
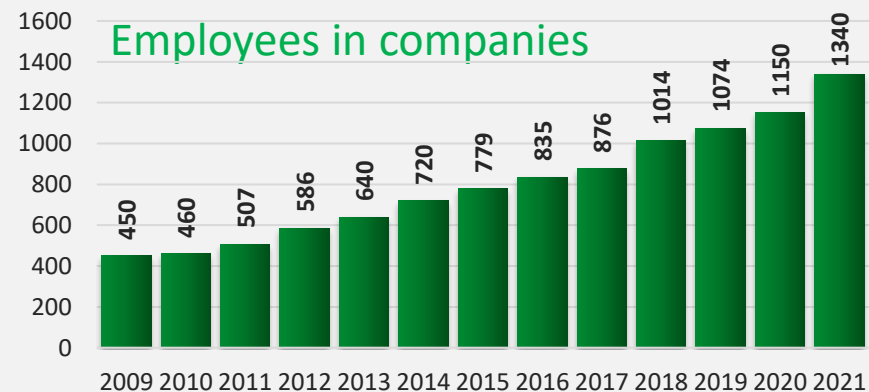
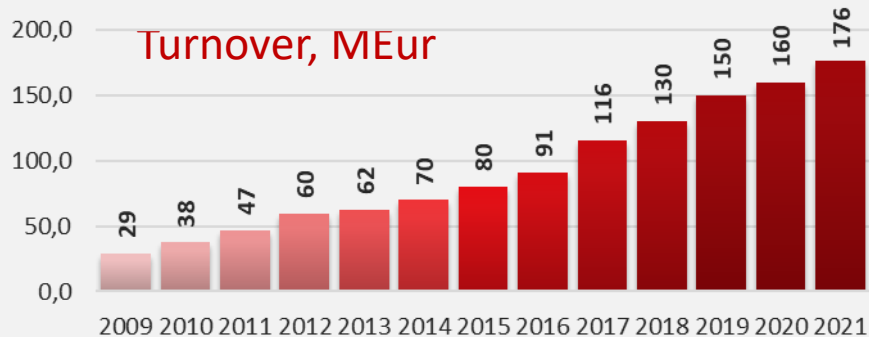
ps-lasers



fs-lasers



Lithuanian Laser & Photonics ecosystem



CAGR 16.2% (2009-2021)
of employees 2x in 9-10 years
10% of turnover to RTD
Export > 80 countries



Community



Photonics West 2022, Prism awards nominees



World of Photonics, Munich



National laser conference & festival

Photonics ecosystem evolution

Lithuanian Laser Association - 25 members
Laser & photonic sector ~ 55 companies



BALTIC
PHOTONICS
CLUSTER

25



EPIC
European Photonics
Industry Consortium

>780 (20 from LT)



Toolas

<https://toolas.eu>

10



LITEK

<http://litek.lt>

15



SCIENCE
AND TECHNOLOGY
PARK

<http://www.fimtp.lt>

24



RTO
LITHUANIA



LIETUVOS
ENERGETIKOS
INSTITUTAS



LAMMC



PHOTONICS²¹



eli



Laserlab
Europe



LASER LT
DIH



LITEK

LASER LT
DIH



EPIC
07-08 April 2022
Vilnius, Lithuania
EPIC Annual General Meeting 2022



CENTER
FOR PHYSICAL SCIENCES
AND TECHNOLOGY

www.ltoptics.org



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INDUSTRY
CONSORTIUM



Pulsate

Fostering the PAN-European infrastructure for empowering SMEs digital competences in laser-based advanced and additive manufacturing



PhotonHub
Europe®



Welcome to Vilnius for EPIC AGM

