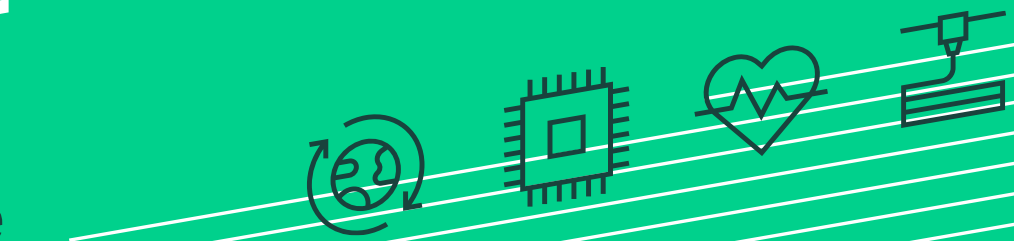
laser pro
Excellence Hub



LASER-PRO: Turning Ecosystem Vision into Action

From Laser Excellence to European Competitiveness

Tomas Mocek

LASER-PRO Coordinator | HiLASE Centre

Excellent Laser Technologies
for the Sustainable Prosperity of Europe

Co-funded by
the European Union

Europe Has the Science. Can We Capture the Value?

🔬 Europe excels in science

🚧 Europe struggles in commercialisation



Scientific excellence does not automatically become industrial strength.

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WHY LASERS MATTER

Lasers Are Not a Niche Technology

LASERS = KEY ENABLING TECHNOLOGY

- SEMICONDUCTORS
- ADVANCED MANUFACTURING
- SPACE
- DEFENCE & SECURITY
- LIFE SCIENCES

Advanced laser technologies should be recognised as a strategic enabling capability for Czech industry.

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WHO WE ARE

LASER-PRO: Connecting Three Ecosystems

18 partners | 3 countries | 1 ambition



Science • Industry • Government • Society

Building a sustainable European Excellence Hub for laser technologies

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WHAT WE DO

Not Just Another EU Project

CONNECT

- Research
- Industry
- Policy
- Capital

CO-CREATE

- Technologies addressing real industrial needs

COMMERCIALISE

- IP
- Technology Transfer
- Start-ups & Spin-offs

SCALE

- Companies
- Partnerships
- European impact

From Consortium → Ecosystem

The KPI is not how many workshops we organise.

The real KPI is what happens because people met.

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WHAT WE HAVE BUILT

From Vision to Action

- ✓ CZ–LT–UA Excellence Hub governance established
- ✓ Science–business collaboration platform operational
- ✓ Joint R&I strategy under development
- ✓ Start-up & spin-off support mechanisms launched
- ✓ 4 joint R&I demonstrators launched
- ✓ Long-term sustainability framework under development

The ecosystem is no longer an idea. It is taking shape.

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THE EVIDENCE

And It Is Already Producing Results

4

Joint R&I Demonstrators

14

Science–Business Initiatives

534

Industrial Stakeholders Engaged

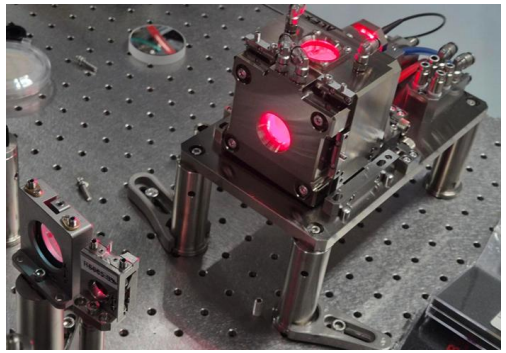
150+

Ukrainian Organisations Engaged

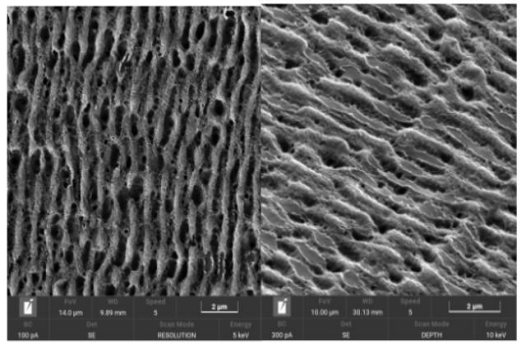
Sustainable Manufacturing



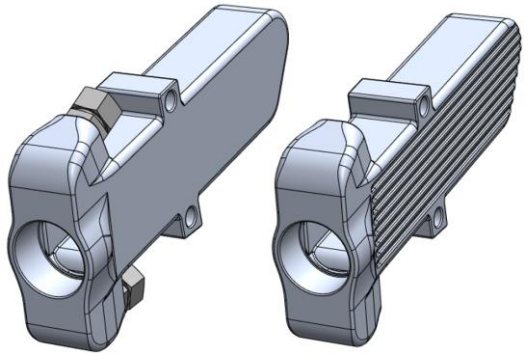
Semiconductors



Biomedical Applications



Laser Engineering



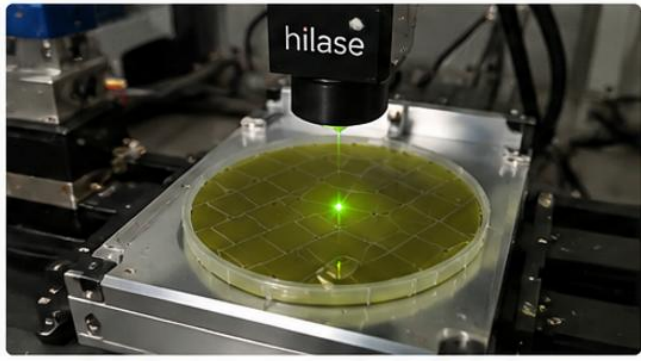
From Networking → Implementation → Impact

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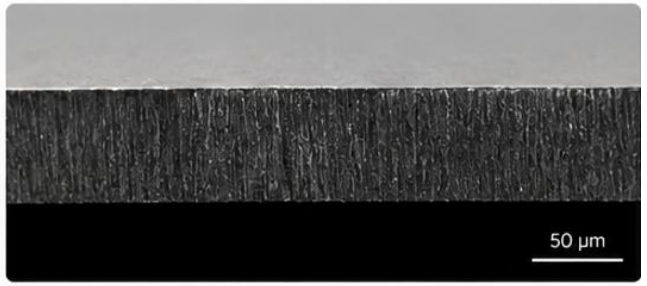
THE HiLASE AMBITION

HiLASE: From Research Centre to Innovation Engine





Ultrafast laser processing (900 fs, 515 nm)



Clean edge quality, minimal HAZ

- SCIENTIFIC EXCELLENCE
- TECHNOLOGY DEVELOPMENT
- INDUSTRIAL CO-CREATION
- TECH TRANSFER & NEW VENTURES
- STRATEGIC IMPACT

Advanced Manufacturing | Semiconductors | Space | Security

hilase

Research excellence is where we start.
Impact is where we want to arrive.

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THE WAY FORWARD

From Discovery to Impact



Advanced laser technologies & industrial capability



Strong photonics ecosystem connecting science & business



Scientific talent & growing innovation capacity

Together, we can turn European laser excellence into industrial capability.

Connect | Co-create | Commercialise | Scale

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