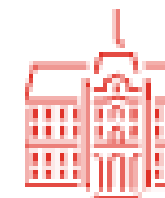


Innovative Laser systems and Photonics Technologies

Rok Petkovšek, UL FME



UNIVERZA
V LJUBLJANI

Partnership KET Photonics



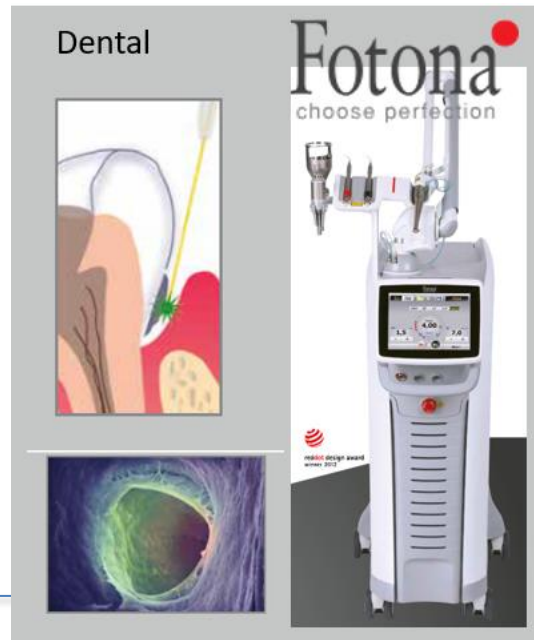
- In Slovenia, we have state-of-the-art knowledge in the fields of laser sources and its applications in the industry, medicine, science and others.
 - Partnership **KET Photonics** has affiliated companies and academic research organizations
 - Companies mostly control the entire value chain:
 - from research to sales to end customers
-

Laser system for industry and medicine - R&D and production



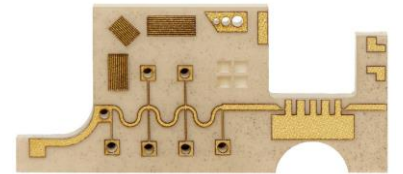
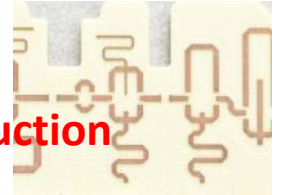
Laser systems for medicine:

- Esthetics
- Dental
- Ophthalmology



Laser for industry:

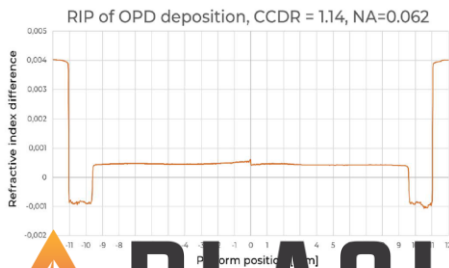
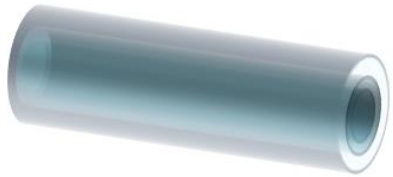
- high-density electronics – PCB
- prototyping and small production runs



Key technologies for fiber lasers

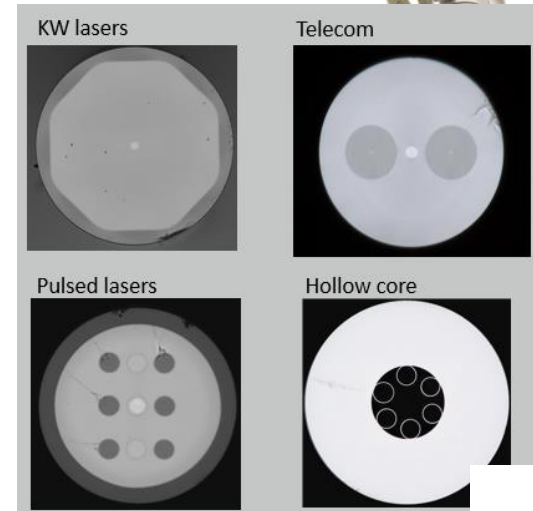
Developing and building equipment for producing:

- Fiber Preforms
- OPD – Outside Plasma Deposition System
- Plasma preform polishing
- Tripple clad fibers



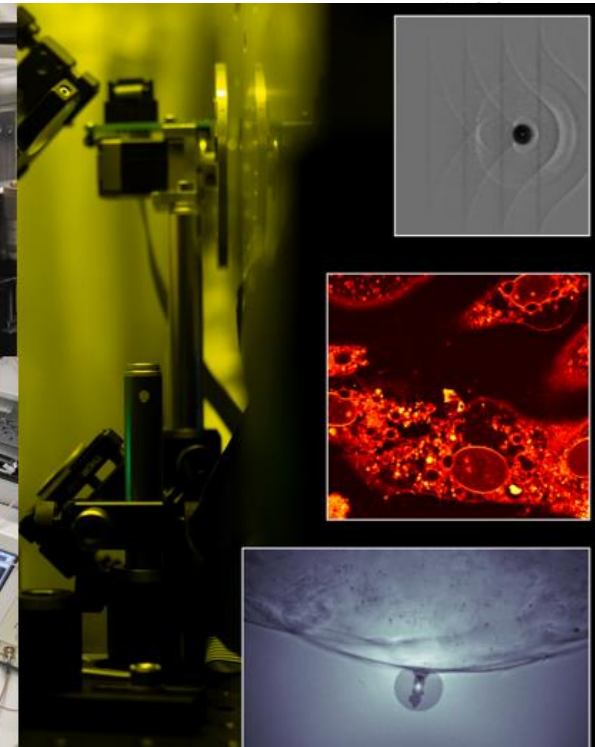
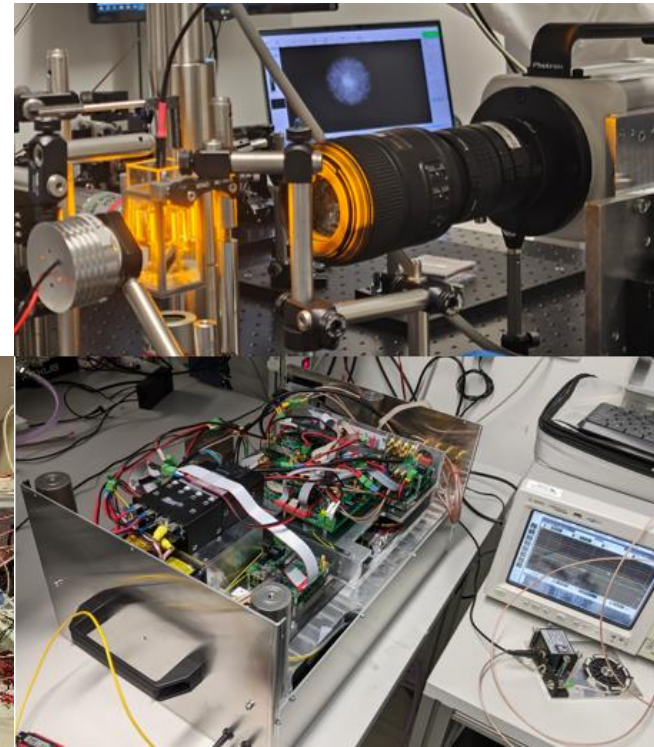
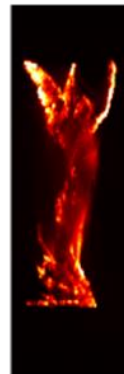
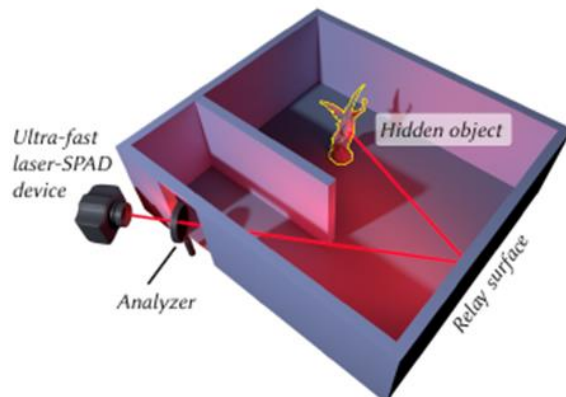
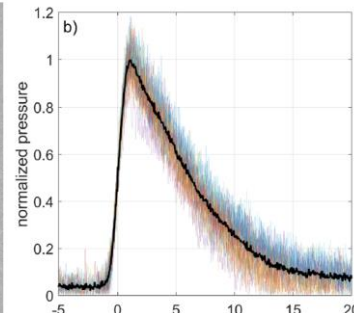
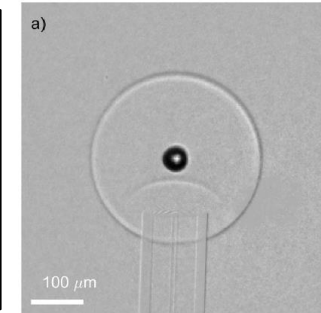
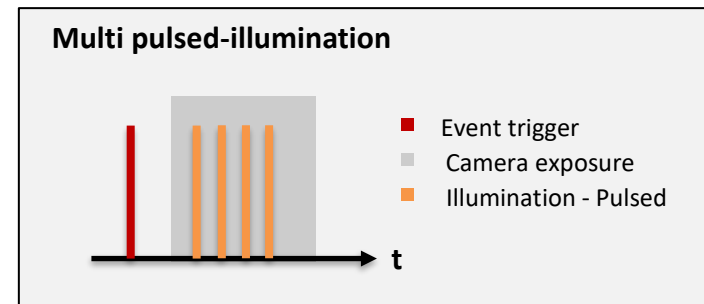
Developing and producing:

- Specialty Optical Fibers
- Laser Components
- Specialized equipment and systems for development and production



Laser systems for application in science and other fields

- Photonic devices for advance measurement
 - Advanced illumination systems increasing the state-of-the-art high speed camera capabilities
 - Optical pressure sensors
 - Non line of sight imaging
 - Long distance eye-safe lidars





Thank you for your attention!

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