Modulight

Tulevaisuuspäivä

Eduskunnan tulevaisuusvaliokunta



Petteri Uusimaa

1.3.2019

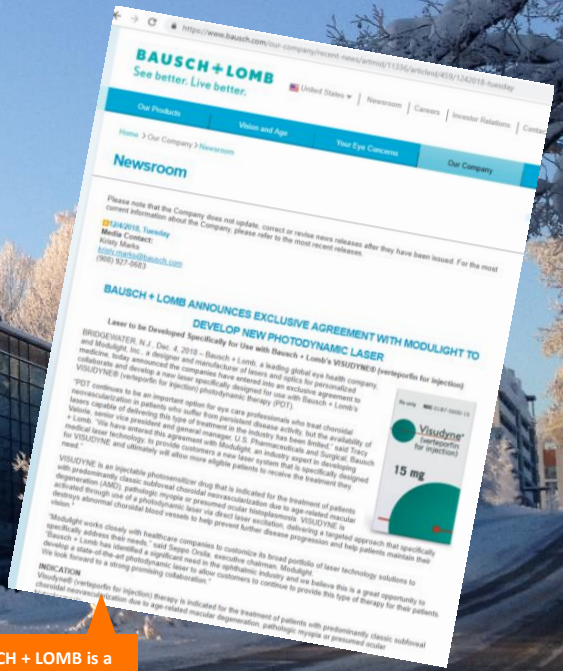
Lasers and optics for personalized medicine and better life.


WE DO LASERS
AND OPTICS
FOR P LIZED
ME ND
YouTube
BETTER LIFE
modulight

Modulight, Inc.

- Spin off from ORC at Tampere University of Technology in 2000
- Profitable privately held company with 18 years track record
- Exclusive supplier to 9 pharmas & world leading cancer centers in USA & Europe
- Long track record of making all kinds of semiconductor lasers & pumps (400–2000 nm)
- Certified ISO13485 QMS in 2011, ISO9001 & 14001 in 2002
- Co-branded & OEM products currently shipping to all continents except Antarctica
- 600 000 pcs of 9xx-nm pulsed lasers in 2015 for LIDAR





BAUSCH + LOMB is a large US company, listed in NYSE



Life sciences

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- Medical laser systems
- Oncology
- Ophthalmology
- Optogenetics
- Pharmaceutical safety & testing







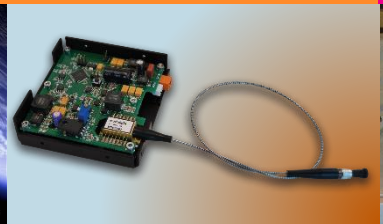


Custom & industrial

Subsystems for challenging optics & electronics • Processing





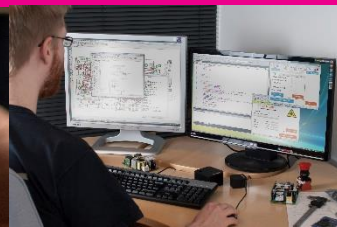


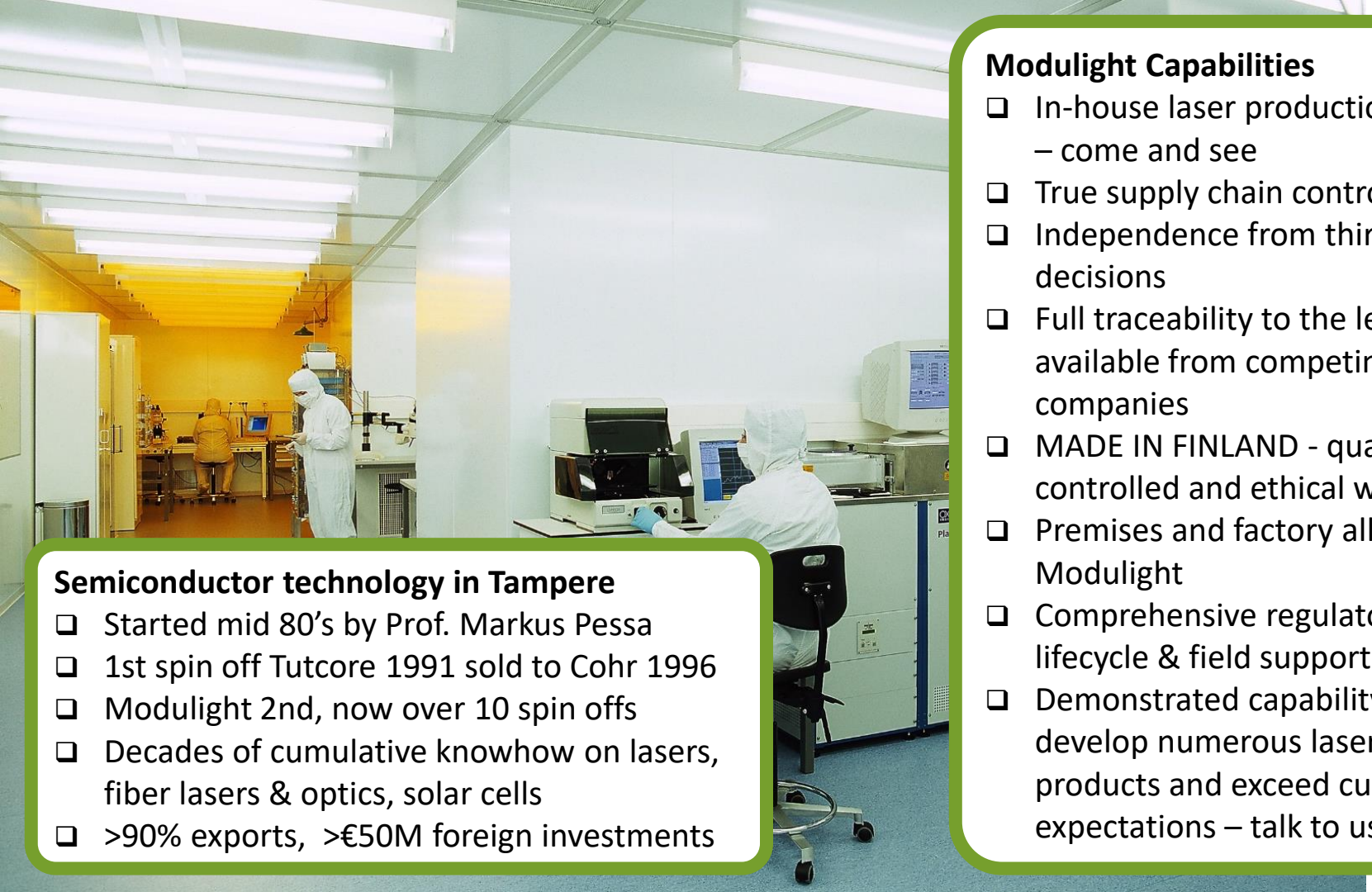
Services

Regulatory & engineering • Lifecycle support









Semiconductor technology in Tampere

- Started mid 80's by Prof. Markus Pessa
- 1st spin off Tutcore 1991 sold to Cohr 1996
- Modulight 2nd, now over 10 spin offs
- Decades of cumulative knowhow on lasers, fiber lasers & optics, solar cells
- >90% exports, >€50M foreign investments

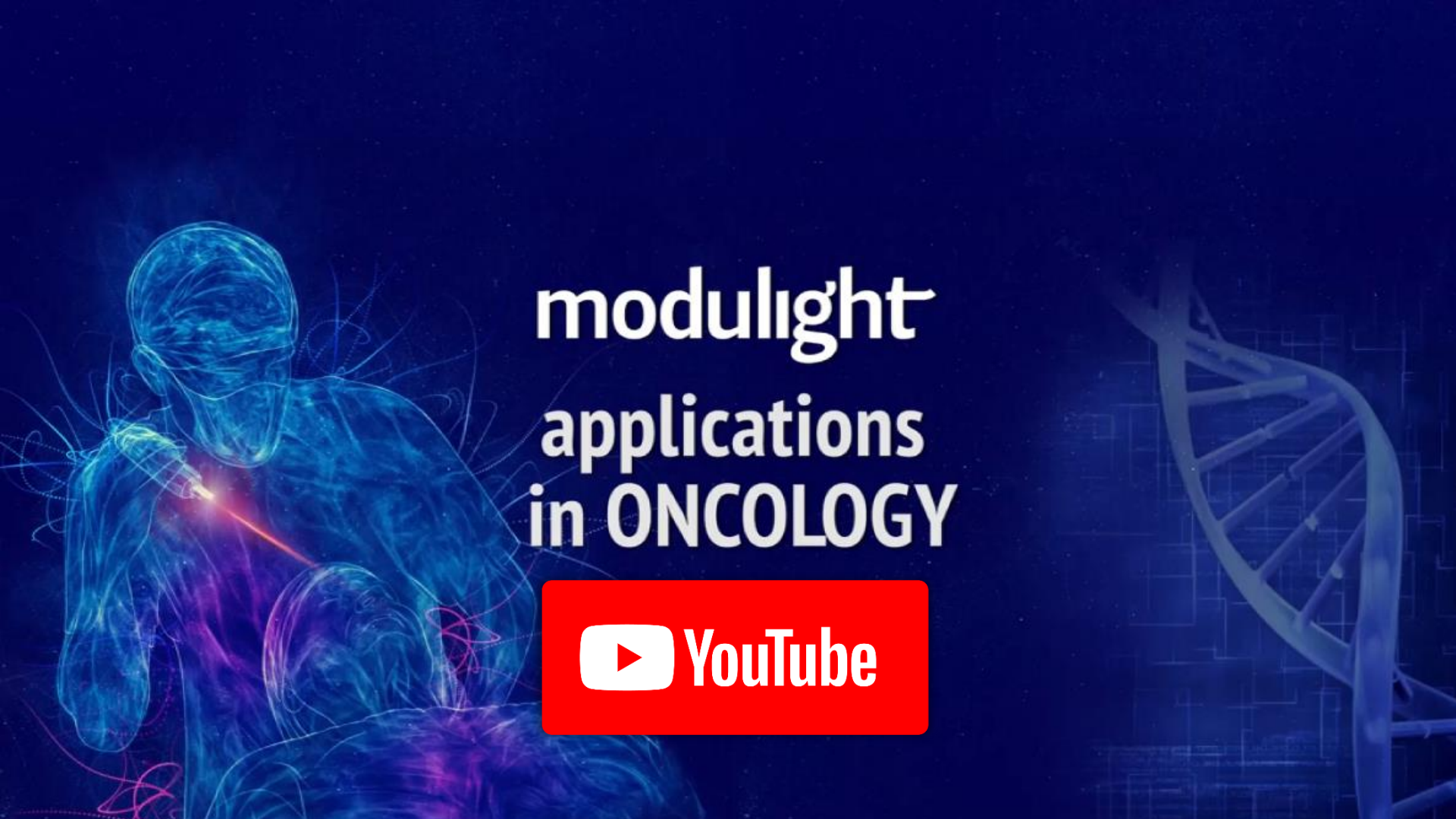
Modulight Capabilities

- In-house laser production & design – come and see
- True supply chain control
- Independence from third party decisions
- Full traceability to the level not available from competing laser companies
- MADE IN FINLAND - quality controlled and ethical work place
- Premises and factory all owned by Modulight
- Comprehensive regulatory, lifecycle & field support
- Demonstrated capability to develop numerous laser related products and exceed customer expectations – talk to us for more!

Worldwide laser markets €15B

Medical laser markets €1B

Surgical, therapy and ophthalmic laser markets €400M


modulight
applications
in ONCOLOGY
YouTube



Lessons learned

- ❑ Decades of cumulative knowhow and investments in semiconductor technology protect business and employment in Finland
- ❑ Cross field product and technology development maintains unique global competitiveness (laser+medicine, laser+genetics)
- ❑ Finland has to be attractive & supportive to new technologies and clinical studies to ensure utilization of the latest medical technologies


Thank you!
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