



## Press Release

Zurich, 8-July-2008

### **10.1m EUR to Develop New Lasers for Biophotonics**

Time-Bandwidth Products announces its participation in the new consortium project FAST-DOT ([www.fast-dot.eu](http://www.fast-dot.eu)) to develop new generation biomedical lasers. A team of 18 European partners have been granted €10.1m from the European Commission for the four-year project.

Based on advanced quantum-dot semiconductor materials, these new lasers will target key wavelengths for biophotonics applications, and be more compact and energy efficient than current lasers, making them lower cost and more readily portable. Target applications are high-resolution microscopy and nanosurgery, making novel precision cutting, imaging, and treatment therapies possible. Surgeons and life scientists will have improved access to higher performance and lower cost lasers than are currently available, opening new application areas.

The project, headed by the University of Dundee, includes academic institutes FORTH Heraklion, ICFO Barcelona, University groups from ETH Zurich, Darmstadt, Vilnius, Sheffield, Athens, Turin, and KTH Stockholm, plus SME companies Innolume (Germany), Molecular Machines & Industries AG (Germany/Switzerland), M-Squared Lasers (UK), Time-Bandwidth Products AG (Switzerland), Toptica Photonics AG (Germany), and multinationals Philips (Netherlands / Germany) and Alcatel-Thales III-V Lab (France)

Prof. Ursula Keller, head of the Ultrafast Laser Physics Laboratory at ETH Zurich, says "This project will significantly advance use of ultrafast lasers in the biomedical field, providing both researchers and end-users with pocket-sized ultra high performance lasers at a substantially lower cost and increasing their widespread use in the field."

Dr. Kurt Weingarten, chairman and founder of Time-Bandwidth Products AG, stated "The technologies developed by FAST-DOT and leveraged with the existing and future product platforms from Time-Bandwidth and the other FAST-DOT project partners will enable next-generation biophotonic lasers and systems, expand existing markets, and open new application areas, for example by enabling ultrafast laser diagnostics and therapies in hospitals and ultimately doctor's offices."

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