venture kick: some supported business ideas
(descriptions by the project-authors)

Virtamed Virtamed will improve the quality of health care by providing virtual reality based surgical simulators. The prototype for hysteroscopic interventions developed at our institute delivers unprecedented fidelity and has been received with enthusiasm by surgeons. Stefan Tuchschmid, ETH Zürich tuchschmid@vision.ee.ethz.ch	**Preclin Ventures** Co-Founder: Ben Marsland Preclin Ventures utilizes physiologically relevant disease models to assess in vivo generated human protein-specific antibodies from its preclinical pipeline and provides a customized fee-for-service to test therapeutics from external Biotech companies. Dr. Bettina Ernst, ETH Zurich info@preclinventures.com
iNoCs iNoCs is aimed at serving the needs of silicon vendors. In today's integrated chips, which are becoming more and more complex, the internal interconnection is becoming a serious design problem. We license cutting-edge, patented technology to tackle this challenge, thus letting manufacturers keep innovating and integrating more computing power into their designs. Federico Angiolini, EPF Lausanne, Università di Bologna federico.angiolini@epfl.ch	**Inno-Motion** Inno-Motion AG uses medicine and neuroscience as the basis for designing products, interfaces and processes. Our core project is about revolutionizing seating: There are two things we know about seats: They are ubiquitous, and they can cause discomfort and even health problems. Based on our knowledge about the human brain and body, we developed and tested a novel seating concept that is good for you and makes you happy. Dr. Patrik Künzler, MIT/ ETH info@inno-motion.com
Zurich Instruments Zurich Instruments' mission is to develop and sell a new generation of digital lock-in amplifiers that replaces its analog precursors. The digital core of the lock-in amplifier allows for increased performance (i.e, one Zurich Instruments lock-in amplifier can be used instead of four analog models) and 50% decrease of manufacturing costs. Our customers work in electrical engineering, physics, electrochemistry, bioelectronics, radar and communication R&D. Sadik Hafizovic, ETH Zurich hafizovic@phys.ethz.ch	**Poken™** The project is capturing the future of the instant lottery industry. A technological revolution is looming in the instant lottery industry, as incumbents struggle to find the right appeal for Generation X and Millennium. Though the lottery industry is still experiencing strong growth worldwide, it is based mostly on the Baby Boomer generation. Poken™ is a new electronic gaming device that will bridge the generational gap and ensure new growth opportunities for the Instant lottery industry in years to come. Stéphane Doutriaux, IMD Lausanne Stephane.doutriaux@imd.ch

RouteRank Current independent travel planning is time-consuming, tedious and often leads to suboptimal results. routeRANK is a software tool at the heart of an easy-to-use website that efficiently finds and ranks the best possible travel routes. Dr. Jochen Mundinger, EPF Lausanne jochen.mundinger@epfl.ch	**KeyLemon** The main idea of our business project is to provide innovative and convenient services based on biometric identity authentication, currently only applied to expensive high security applications. Dr. Yann Rodriguez, IDIAP Research Institute Martigny yann@keylemon.com
Optotune A new technology based on electro active polymer actuators enables the implementation of an inexpensive, scalable, precisely focus tunable lens. The patented technology facilitates optical zoom and autofocus without the use of complicated mechanical positioning mechanisms. Therefore a compact, light-weight, robust implementation of a wide range of optical systems is possible. Application examples are digital cameras, mobile phone cameras, web cams, binoculars, industrial & medical imaging. The technology has the potential to replace state-of-the-art glass and plastic lenses and can even enable new applications. Additionally, it is possible to implement other continuously tunable optical elements such as diffraction gratings, phase shifters or mirrors based on the same technology. Dr. Manuel Aschwanden, ETH Zürich manuel.aschwanden@optotune.com	**Delta Robotics** Delta Robotics develops a new Solid Freeform Fabrication technology allowing the manufacturing of bioinductive biocompatible bone substitutes offering an optimal alternative to autologous bone substitutes. Combining an innovative scaffold manufacturing technology and bioinductive materials based on bone morphogenetic proteins, this technology offers new opportunities for fast regenerative medicine. Each year more as one a half million skeletal defects caused by any kind of trauma, tumor, birth malformation need bone substitutes. The market potential for an alternative to autologous bone substitutes is estimated to $1.5 billion/year. Delta Robotics customers are world leading companies in the field of trauma, dental and orthopedics surgery. Marc Thurner, University of Applied Science Biel marc.thurner@bfh.ch