Activities of the Budapest ICT Lab Associate Node of the European Institute of Innovation and Technology

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IPTS - IT STAR International Conference on ICT Research and Innovation Challenges in Eastern European Member States (EEMS), 11 November 2011 in Budapest, Hungary
EIT Initiative for creating KICs

- Integrate the three sides of the "Knowledge Triangle" (Higher Education, Research, Business-Innovation).
- Grow the innovation capacity and capability of actors from higher education, research, business and entrepreneurship through the creation Knowledge and Innovation Communities (KICs).
- The KICs are test-beds for a new type of collaborations bringing together most excellent resources from higher education, research, business and entrepreneurship,
- KICs should develop new education programmes integrating entrepreneurship, innovation and risk management as core modules.
- ICT Labs, InnoEnergy and Climate KICs were designated on Dec 16, 2009, launch of the KICs: June 2-3, 2010.
The ICT Labs KIC develops

- excellence and entrepreneurship in education
- academic-industrial co-location labs, mobility
- research on strategic areas of ICT
- European open innovation ecosystem for ICT and its applications
- novel ICT services for individual, business and society
- user-involved solutions for research and development
- Future Internet infrastructures

EIT founding: 146 000 kEUR for 2010-2014, total budget: 584 000 kEUR.
The ICT Labs Association

34 Members (top universities, research centers and leading industrial partners) organised in

- 6 nodes (with co-location centers) including core and affiliate partners,
- 2 associate nodes and
- 2 associate partners
The ICT Labs Association

- **Sweden**: **Stockholm** (KTH, SICS, Ericsson, TeliaSonera)
- **Germany**: **Berlin** (TU Berlin, DFKI, Fraunhofer, Deutsche Telekom, SAP, Siemens)
- **France**: **Paris** (University Paris 6, Universiy Paris-Sud 11, Institut Telecom, INRIA, Alcatel-Lucent, France Telecom, Technicolor)
- **Finland**: **Helsinki** (Aalto University, VTT, Nokia)
- **The Netherlands**: **Eindhoven, Twente** (3TU / NIRICT, Novay, Philips)
- **Italy**: **Trento** (Trento-STAR: University of Trento, FBK-IRST, CREATE-NET, GraphiTech, ISTC-CNR LOA, Celct)
- **Hungary**: **Budapest** (ELTE, BME TMIT HIT MIK, Cisco Systems Hungary, GE Healthcare Hungary)
- **Great-Britain**: **London** (LITE: Imperial College London, University College London, IBM, HP Labs, BT research)
- **Intel Labs Europe and Microsoft Research**
EIT, KICs, Nodes

European Institute of Innovation & Technology

Knowledge and Innovation Communities (KIC)

EIT ICT Labs KIC

Climate KIC

KIC InnoEnergy

Nodes

Stockholm

Paris

Berlin

Helsinki

Eindhoven

Budapest

Trento

London

BME

ELTE

Cisco

GE Healthcare

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Prof. Zoltán Horváth
Associate partner at Budapest, Hungary

Coordinator

Eötvös Loránd University (ELTE)
- Faculty of Informatics
- Faculty of Sciences
- Department of Information Sciences
  Computer and Automation Research Institute (MTA SZTAKI)
  Hungarian Academy of Sciences

Members

Budapest University of Technology and Economics (BME)
Department of Telecommunications and Media Informatics,
Department of Telecommunication and Mobil Innovation Center

Cisco Systems Hungary Kft.
(Cisco)
Industrial partners of the Budapest Associate Partner

The leading universities of Hungary and strong industrial partners form an ecosystem in education, research and innovation in ICT.

Strong industrial partners

Ericsson Hungary
Nokia Siemens Networks Hungary
Hungarian Telekom

Several SME-s, start-up and spin-off companies cooperate with the Budapest Associate Partner.
Contribution of the Budapest node to EIT ICT Labs:

- improving the performance of various communication systems based on its unique knowledge in network performance and mathematics,
- application of formal mathematical methods for analysis of the architecture, performance and traffic of complex communication networks and for internet security and software development,
- contribution to software technology of complex and software intensive ICT systems and services,
- applications of the test bed system of the Mobile Innovation Center for 3G & B3G applications open for other Nodes, companies, specifically for SMEs,
- and application of the telepresence technology.

The Budapest Associate Partner submits ERI project proposals of the EIT ICT Labs KIC.
Contribution of the Budapest node to EIT ICT Labs - cont:

- providing a **model of education** of MSc and PhD students, involving teams of professors and students into **innovative projects** with **industrial cooperation** and utilizing **mobility**,  
- industry-university innovative R&D labs involving large number of students (e.g. Ericsson-ELTE Software Technology Lab)  
- 1000+ new students/year in Computer Science and in Computer Engineering at ELTE and BME - selected from 3000+ applicants,  
- utilizing the expertise of Cisco Entrepreneur Institutes in education,
Ericsson Hungary (1200 R&D staff at Budapest) claims:

"ELTE and BME have established a sustainable cooperative learning model that has been beneficiary to our organization for more than 10 years. They are continuously providing us excellent labor at BSc, MSc, PhD and post doctoral level as well as research topics and business opportunities. It is one of the main reasons why our company settled down and continuously raising its R&D activities in Budapest, Hungary"
European joint master and PhD education

The Budapest Associate Partner participates in preparations of three EIT Master course with 36 ECTS minor on innovation and business.

Structure: Erasmus Mundus like double degree masters for the most excellent students from the world.

- Digital Media Technologies
- Service Design Engineering
- Trust and Privacy

Industrial Doctoral Training Center: PhD in CS/CE with MBA master.
Outreach and dissemination of result in Central and Eastern Europe.

ELTE coordinates a network of computer science departments of Central European universities for 13 years (CEEPUS Minister’s Prize of Excellence 2004, 2007).

Budapest Associate Partner offers a possibility to cooperation for universities and companies in Central and Eastern Europe, a link to be involved in the activities of EIT ICT Labs KIC.

Cooperation in R&D projects, joint academic-industrial supervision of master and PhD students.