Research, Innovation and Education in Infocommunication Technology
EIT and EIT ICT Labs

Diagram showing the relationship between EIT and its various components, including Climate-KIC, KIC InnoEnergy, and EIT ICT Labs.
ICT Labs Nodes Partnership with leading universities, companies and research laboratories of Europe
Goal:

creating a functional and viable regional educational, research and innovation hub on CEE level driven by a business perspective

Platform of innovative SMEs (Hungarian micromultis)

Activities: research and carrier potential
Support for I&E education (DTC, MSc)

Budapest Associate Partner Group

Strategic industrial and research lab. partners
EDUCATION
Creating a new breed of entrepreneurs

- EIT Master Schools
- Spearhead Research
- Experience Labs & Living Labs
- Cross-Sectoral Mobility

BUSINESS
Supporting innovators all the way to the market

RESEARCH
Enabling excellent individuals and multidisciplinary teams to develop breakthrough ideas

- Schools & Camps
- Testbeds & Simulation Tools
- EIT Innovation Radar
“Creating a new breed of entrepreneurs”

Industry driven ICT education – MSc

**EIT ICT Labs Master School**

- Budapest’s contribution: 2nd year of the SDE, S&P, DMT.
- High-skilled Hungarian and CEE students with solid mathematic and computer science background.
- Student consulting services.

- *Budapest became coordinator of the Security and Privacy major.*

**EIT ICT Labs Master School Kick-off 2014 October in Budapest**

- ELTE is the organizer of the third kick-off ceremony (Stockholm, Berlin)
- I&E training programs and formal events combined
- cca. 500 participants
Doctoral Training Centre Budapest

ICT research topics combined with I&E education

• 16 Hungarian doctoral candidates enrolled in the first year (18 more doctoral candidates to be enrolled in 2013 and 2014)

• Focus: Excellence in communication software and system performance
Hungarian micromultis altogether cca. **30 m EUR** revenue / year:
- Aitia,
- Attrecto innovation,
- BalaBit,
- Binergy,
- Bonn Hungary,
- IND,
- Intellifactory,
- IVSZ,
- NETvisor,
- Prezi

Established best practices for disseminating knowledge and expertise on dynamically developing small companies

To encourage the development of a regional platform of companies, which gives rise to more highly added value jobs in the region.
Startup Activation - EIT ICT Labs

„Supporting innovators all the way to the market”

<table>
<thead>
<tr>
<th>Link startups to EIT-related entrepreneurship programmes</th>
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<tbody>
<tr>
<td>• Leverage already existing programmes, such as</td>
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<tr>
<td>• Berlin: Deutsche Telekom Innovation Contest</td>
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<td>• Helsinki: AppCampus, Startup Sauna, Demola</td>
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<td>• Trento: TechPeaks</td>
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<td>• Budapest: Startup activities of ELTE and BME</td>
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<td>• Execute with the help of startup ecosystem actors in X-European countries</td>
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## BrassTacks – Intensive Startup Training

- Regional startup competition – in cooperation with MMCluster and Avec
- Intensive, practice oriented and interactive modules
- Tailor-made for early stage startups
- Participation of Rob Fitzpatrick and other foreign and Hungarian experts
- Meeting opportunity with VCs and multinational companies
- More than 30 applications in two weeks and 7 startups from 5 countries (Austria, Slovenia, Bulgaria, Romania, Hungary) selected

Next training is planned for November 2014…
Research

„Enable excellent individuals and multidisciplinary teams to develop breakthrough ideas”

Researchers + students from universities and industrial partners work together on innovative R&D&I projects.

Their innovation potential is supported by national, European and EIT ICT Labs grants and funds.
Student success stories

Student from Budapest won CH.A.N.G.E Award 2013

Annual award of EIT to support entrepreneurial talents

- **Dorottya Maksay**, master student at EIT ICT Labs Budapest, was awarded for developing her Homebuddy initiative
- **Homebuddy** provides social interaction and care for elderly people by matching them with students who need accommodation.
Student success stories

Music game developed by EIT ICT Labs Master student Ádám Kapos ranked top in Windows Phone Store

SongArc: a big app hit almost 1.000.000 download
Financing structure

Fundings:

- Industry funded R&D projects
- EU FP7 and national R&D projects
- Dedicated Research and Technological Innovation Fund grant
  Carrier funding for further R&D activities: 1.000.000.000 HUF
- Support from the Minister of National Development
  Financial background for the preparation period: 20.000.000 HUF
- „Social Renewal Operational Program” (TÁMOP)
  Education - Curricula Development: 120.000.000 HUF

- To set up the local CLC and carrier project between January 2013 and the first half of 2014
- Consortium: ELTE, BME, Cisco
- The EIT funding serves to realize the innovation cycle
<table>
<thead>
<tr>
<th>Category</th>
<th>Project</th>
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<tr>
<td>2013 &amp; 2014: 12 R&amp;D&amp;I ICT projects</td>
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<tr>
<td><strong>IDENTIFYING THE PROBLEMS OF COMPLEX INFOCOMMUNICATION NETWORKS</strong></td>
<td>Cyber-Physical Systems; Future Networking Solutions.</td>
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<tr>
<td><strong>FUTURE DIGITAL FIELDS AND MOBILITY</strong></td>
<td>Urban Life and Mobility; Future Networking Solutions.</td>
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<tr>
<td><strong>HUMAN COMPUTER COLLABORATION</strong></td>
<td>Future Cloud; Smart Spaces.</td>
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<tr>
<td><strong>PRIVACY, SECURITY AND TRUST</strong></td>
<td>Smart Energy Systems.</td>
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<tr>
<td>CPS For Smart Factories – András Lőrincz, ELTE</td>
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<td>Future Programmable Networks – Attila Takács, Ericsson Hungary and Rolland Vida, BME</td>
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<td>Europa – EIT’s Cloud-based data – András Benczúr, ELTE</td>
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<tr>
<td>Security monitoring for critical infrastructure – Levente Buttyán and Márk Félegyházi, BME</td>
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EITKIC_12-1-2012-0001 carrier project 2013-2014

Dedicated Fund from the Research and Technological Innovation Fund for R&D activities: 1.000.000.000 HUF
Thank you

www.ictlabs.elte.hu
www.eitictlabs.eu