Knowledge transfer and IP management at universities and public research organisations in Lithuania

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An event on behalf of the European Commission
Key facts about Lithuanian Research System 2011

- Population 3,054 million
- Number of students: 200,000
- 22 universities: 14 state, 8 private
- 23 colleges: 13 state, 10 private
- 11 state research institutes
- 5 integrated science, study and business centers ("valleys")
- 13,800 researchers, 6,400 with PhDs
- 300-400 new doctoral degrees each year
- 10.7% researchers in business and industry
New Law on Higher Education and Research passed on 30-04-2009

- Competitive funding of HE via student vouchers
- Programme based competitive research funding
- Consolidation of research institutes
- Institutional reform of universities and colleges
- External institutional evaluation
- Intellectual rights protection

Research - funding

Allocations for science and studies in 2008-2010 (million €)

- 2010: 267,916 (State budget funding), 164,143 (EU SF and gross funding), 99,903 (Special programmes funding)
- 2009: 305,673 (State budget funding), 77,759 (EU SF and gross funding), 94,974 (Special programmes funding)
- 2008: 329,288 (State budget funding), 83,168 (EU SF and gross funding), 84,173 (Special programmes funding)

Research - funding

- Changing the system towards competitive funding – ratio of basic funding against competition funding: 70/30 in 2009; 60/40 in 2010; 50/50 in 2011.

- Agency of Research, Innovation and Technologies established to distribute funding to technological projects and commercialization.
National science programs

- Social Challenges for National Security
- State and Nation: Heritage and Identity
- Future Energy
- Chronic Uninfectious Diseases
- Ecosystems of Lithuania: Climate Change and Human Influence
- Healthy and Safe Food
Integrated centers – “Valleys”

- R&D labs created in Valleys will function as open-access centres formed on the basis of R&D infrastructure and competence of science and study institution.

- Priority fields:
  - Biotechnology and Biomedicine
  - Materials Science, Physical and Chemical Technologies
  - Natural Resources and Agriculture
  - Engineering and IT.

National targets for R&D intensity
National targets for R&D intensity

- By 2020, Lithuania targets 2% R&D intensity:
  - New fiscal incentives for R&D: improved financial accounting is expected.
  - New incentives for research and higher education institutions to commercialize R&D results and attract investments from business sector.
  - Reformed research and higher education system and renewed infrastructure: foreign investment should increase.
Strategy development for IP protection

- Recommendations for Lithuanian science and studies institutions regarding the rights arising from the results of intellectual activities, approved by the order of the Minister of Education and Science (December 1, 2009):
  - Recommendations – is a consulting guide, setting the guidelines for Lithuanian science and studies institutions on the rights, arising from the results of intellectual activities, and their use, disposal and management.
Recommendations: Strategic suggestions

- It is recommended to include IP policy (with implementation instruments and monitoring) into institution’s long-term strategy and appoint a person or allocate a structural unit dealing with IPR issues (possibility to delegate this to separate technology transfer office).
The first “swallow” - KTU

- Kaunas University of Technology adopted IPR regulations in June 2010.
- Interest was shown by a few other universities and research centers (Vilnius University, Vilnius Gediminas Technical University, Center for Physical Sciences and Technology).
- Change in legal status of universities will presumably speed up the process.
Difficulties encountered

- “Low mentality” on IPR in general
- Disclosure:
  - No practice
  - Problem of confidence
  - Conflict of interests
Industry Financed Research Projects in 2009

[Bar chart showing the distribution of research project funds among different institutions.]

Presentation Violeta Kauneliene
Knowledge Transfer Study 2010-2012 • Workshop Baltic • Tallinn, 6/9/2011
KTU researchers patents ABROAD
esp@cenet information (1990-2010)

TOTAL: 103

Number of extended patents: 157

Including:

USA patents: 55
JP (Japan): 27
EU (European Union): 24
DE (Germany): 23
KR (South Korea): 20

The majority of these patents belong to foreign companies.
Examples of Tech-Transfer
Integrated e-Content and IPTV Services

- KTU Centre of Real Time Computer Systems (head prof. E. Kazanavičius) created e-content management and communication technology for digital television and its environment services.

- On the basis of these results the company TEO LT created TV “Gala”.
Examples of Tech-Transfer
Integrated e-Content and IPTV Services

- At the end of 2010 television “Interactive Gala” had over 60,000 subscribers.
Examples of Tech-Transfer
Digital TV Equipment

- Multisensor Systems laboratory (head Assoc. Prof. V. Deksnys) in collaboration with company “Selteka” has developed three digital TV receivers - DVB-T, IPTV and DVB-T/IPTV, which now are in serial production.

“Selteka” has sold over 50,000 digital set-top boxes.
**Inovation award** for products created together with KTU

<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>Portal <a href="#">www.mokinukai.lt</a>, JSV Edukacinės sistemos</td>
<td>JSV Edukacinės sistemos</td>
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<tr>
<td>2009</td>
<td>Digital TV receiver TC-402</td>
<td>JSV Selteka</td>
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<tr>
<td>2009</td>
<td>House PC system</td>
<td>JSV Elsis TS</td>
</tr>
<tr>
<td>2008</td>
<td>Digital TV receiver TF-401</td>
<td>JSV Selteka</td>
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<tr>
<td>2007</td>
<td>Refrigerator Snaigė Ice logic</td>
<td>JSV Snaigė</td>
</tr>
<tr>
<td>2006</td>
<td>Infusive syringe pump</td>
<td>JSV Viltechmeda</td>
</tr>
</tbody>
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Knowledge and technology transfer skills

- Lots of things are to be done in developing
  - Intellectual property protection mentality
  - Entrepreneurial spirit
  - Tech-transfer abilities

- Call for projects on Knowledge and Technology Transfer has been launched:
  - 2 projects 3.5 mln LT will be financed
  - KTU is leading one of them
Tank you for your attention!