New Trends in Research & Corporate Co-operation

Hannu Seristö, Aalto University
April 4th, 2014
Key arguments

• Location and proximity do matter
• New platforms are needed
• Crossing disciplinary borders adds value
• Multi-level dialogue is required
Location and proximity do matter
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Location and proximity do matter
Open Innovation House
New platforms are needed: e.g. Aalto Factories

**Design Factory**  **Media Factory**  **Service Factory**  **Health Factory**

Environments and ecosystems for research, learning and co-creation

- Researchers
- Students
- Companies
- Public sector
New platforms are needed: e.g. Aalto Factories

Design Factory

Service Factory

Health Factory
New platforms are needed

**Aalto Energy Platform**

<table>
<thead>
<tr>
<th>Platform Academic Board</th>
<th>Aalto Energy Efficiency Research Programme (AEF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 professor members representing the energy knowledge accumulated in Aalto</td>
<td>Matti Pursula Chair</td>
</tr>
<tr>
<td></td>
<td>9 research projects in 2012-2016</td>
</tr>
<tr>
<td></td>
<td>With a volume of over 10 million euro</td>
</tr>
</tbody>
</table>

A common front desk to energy related research and education activities

*Project Manager, post-doc in the research area*

<table>
<thead>
<tr>
<th>Joint education initiatives</th>
<th>Energy Forum</th>
</tr>
</thead>
<tbody>
<tr>
<td>EES – doctoral programme in energy efficiency and systems (Aalto ENG)</td>
<td>Communications channel between internal and external stakeholders</td>
</tr>
<tr>
<td>Aalto Safe – minor program on Nuclear Safety</td>
<td>Special events, workshops</td>
</tr>
<tr>
<td></td>
<td>Think-tank and initiator of concerted activities</td>
</tr>
</tbody>
</table>
## Crossing disciplinary borders adds value

<table>
<thead>
<tr>
<th>Mechanism</th>
<th>Guiding principle</th>
<th>Activite</th>
</tr>
</thead>
</table>
| **Platforms**      | Thematic multidisciplinary research, education and innovation programs            | Energy Platform: Aalto Energy Efficiency Research  
Micronova: Research Infra for micro- and nanotech  
Innovative City: Partner program with City of Helsinki  
HIIT: Helsinki Institute for Information Technology |
| **Programs**       | Problem based multidisciplinary study programs and internships                     | Aalto Ventures Program: Learning for high-growth entrepreneurship  
International Design Business Management: Multidisciplinary learning platform  
Creative Sustainability: Multi-disciplinary learning platform  
Global Impact: Platform for better world projects  
Aalto Camp for Societal Innovation ACSI: Learning camp concept  
Aalto Student Business Projects: Tailored real-life case projects with industry partners  
Aaltonaut: Multidisciplinary candidate program |
| **Factories and Accelerators** | Conceptualization and development of real products, services and businesses | Design Factory: Interaction platform for product design  
Media Factory: Interaction platform for media  
Health Factory: Interaction platform for health technology  
ACE: Aalto center for entrepreneurship and technology transfer  
Startup Sauna: Setup to aspire and facilitate startups  
Startup Center: Startup incubation center  
EIT ICT Labs: European Institute of Innovation and Technology ICT-focused Helsinki node  
UrbanMill: Interaction platform of co-creation for living environments |
| **Labs and Hubs**  | Focused multidisciplinary activities to explore opportunities in a narrowly defined domain | AppCampus: Catalyst for Windows mobile app development  
ADDLab: Digital design laboratory  
Learning Hubs: Hubs and spaces for interaction in learning  
Cruise and Ferry Experience: Multidisciplinary platform for cruise concept studies and research |
Multilevel dialogue is needed

Forms of dialogue

- Professor/Management contacts
- Focused events

Objectives

- Research projects and education collaboration
- Publications, solutions, learning
Multilevel dialogue is needed

Forms of dialogue

- Aalto Energy Forum, Joint projects and events
- Professor/Management contacts, Focused events

Objectives

- Collaboration platforms
- Research projects and education collaboration
- Multidisciplinary innovation Operationalize through Platforms, Factories, Labs and Hubs
- Publications, solutions, learning
Multilevel dialogue is needed

Forms of dialogue
- President’s Circle, Deans’ Circles, CEO meetings, relationship mgt
- Aalto Energy Forum, Joint projects and events
- Professor/Management contacts, Focused events

Objectives
- Define themes for collaboration
- Create new agenda
- Multidisciplinary innovation
- Operationalize through Platforms, Factories, Labs and Hubs
- Publications, solutions, learning
The University value bundle

Resources: People, Money, Infra

Research
- Knowledge
- Expertise

Societal Impact
- Knowledge
- Expertise
- Innovation

Education
- Knowledge
- Skills
- Degrees

Multidisciplinary & Concurrent

Better world Competetiveness

30.4.2014
The goals?

**The best universities to co-publish with industries***

<table>
<thead>
<tr>
<th>Rank</th>
<th>University</th>
<th>Country</th>
<th>P</th>
<th>PP(UI collab)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Eindhoven Univ of Technology</td>
<td>🇳🇱</td>
<td>5334</td>
<td>15.6%</td>
</tr>
<tr>
<td>2</td>
<td>Delft Univ of Technology</td>
<td>🇳🇱</td>
<td>7188</td>
<td>14.0%</td>
</tr>
<tr>
<td>3</td>
<td>Chalmers Univ of Technology</td>
<td>🇸🇪</td>
<td>3887</td>
<td>13.9%</td>
</tr>
<tr>
<td>4</td>
<td>Tech Univ of Denmark</td>
<td>🇩🇰</td>
<td>7124</td>
<td>12.9%</td>
</tr>
<tr>
<td>5</td>
<td>KTH Royal Institute of Technol</td>
<td>🇸🇪</td>
<td>6359</td>
<td>12.8%</td>
</tr>
<tr>
<td>6</td>
<td>Tokyo Inst of Technology</td>
<td>🇯🇵</td>
<td>8466</td>
<td>12.3%</td>
</tr>
<tr>
<td>7</td>
<td>Waseda University</td>
<td>🇯🇵</td>
<td>3543</td>
<td>12.0%</td>
</tr>
<tr>
<td>8</td>
<td>Norwegian Univ of Sci &amp; Technol</td>
<td>🇳🇴</td>
<td>6141</td>
<td>11.8%</td>
</tr>
<tr>
<td>9</td>
<td>George Mason University</td>
<td>🇺🇸</td>
<td>3110</td>
<td>11.4%</td>
</tr>
<tr>
<td>10</td>
<td>Aalto University</td>
<td>🇫🇮</td>
<td>4260</td>
<td>11.3%</td>
</tr>
</tbody>
</table>

*The CWTS Leiden Ranking 2013 measures the scientific performance of 500 major universities worldwide, using a set of bibliometric indicators.
Thank you