The ETH
Innovation and Entrepreneurship Laboratory
The Mission of ETH

One of the key tasks of ETH: technology transfer to exploit research findings
Vision - Bridging Science and Industry

Innovation through an integrative approach

Value Chain
About **Rigor and Relevance**

**Relevance: Consideration of use**

- **Rigor:** Quest for fundamental understanding
- **Relevance:** Consideration of use

<table>
<thead>
<tr>
<th></th>
<th>NO</th>
<th>YES</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>Pure basic Research (Niels Bohr)</td>
<td>Use-inspired basic research (Louis Pasteur)</td>
</tr>
<tr>
<td>NO</td>
<td>Pure applied Research (Thomas Edison)</td>
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Adopted from Donald Stokes, "Pasteur’s Quadrant: Basic Science and Technology Innovation", 1997
The ieLab

Accelerating Innovation and Translation

- The ieLab locations gather young and experienced entrepreneurs and their partners – the ieLabs are *melting pots of innovation, exploration and translation*.
- The ieLab *empowers young talents* on their pathway to innovation and entrepreneurship.
- The ieLab offers an environment, where *moving forth and back from science to market* happens naturally (serial entrepreneurs)
- The ieLab provides individual *coaching*, sharing of *best practices* and early *partnering/alliance-building* with industrial associates and scientific leader.
- The ieLab integrates all relevant offers and services for young entrepreneurs into a *seamless process for accelerated technology transfer* from science to business
- The ieLab is an *ecosystem where innovation happens*
Innovation & Entrepreneurs Labs “around” ETH

- **Melting pots** for innovation, exploration and translation.
- **Empowerment of young talents** on their pathway to innovation and entrepreneurship.
- **Coaching and alliance-building** with industrial associates and scientific leader.
- **An ecosystem where innovation happens.**

**General ETH Strategy**
ieLab
an ecosystem for discovery, innovation and entrepreneurship

Explore – Innovate – Translate

Basic Science
Integrative Approach
“Think Tank”

Translate
Spin-outs
Development

Science

Entrepreneurial Scientists
New Technologies
Industry Spin-offs
Discoveries

Engineering
Industry
Clinics
Production
We embrace talented young scientists and engineers with an entrepreneurial spirit and the aspiration and the commitment to create socio-economic and social value through technology transfer.

Empowering Next Generation Entrepreneurs
Innovation: It’s All About People!

”Innovation has nothing to do with how many R&D dollars you have. When Apple came up with the Mac, IBM was spending at least 100 times more on R&D. It's not about money. It's about the people you have, how you're led, and how much you get it”

Steve Jobs, Entrepreneur, Co-Founder and CEO Apple Inc
Innovation – from Science to Market

- Through market driven innovation and strong industrial collaboration you can considerably speed up innovation (R&D Venture).
- Don’t expect innovation to happen if the market experts are not key partners in your team.
ETH ieLab, the home of …

Student Entrepreneurs

Pioneer Fellows

Jan Lukas Giesbrecht
PlyEx: the ultra-high performance monolithic composite

Early stage Spin-offs

… the place where innovation happens
Characteristics of the ETH ieLab

- Not just a startup creator – an accelerator for the generation of economic value by empowering young talents and employing alliances.

Integrated, coherent process

Sharing (best practices...)

Individual training + coaching

Networking + alliance building
## Networking and Partnership Events

<table>
<thead>
<tr>
<th>Event</th>
<th>Internal Owners / Organizers</th>
<th>Frequency/Since</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Industry Days:</strong> Industry on ETH Campus</td>
<td>VP Research &amp; Corporate Relations, Industrial Relations / Foundation / ETH transfer</td>
<td>1 / year (2010)</td>
</tr>
<tr>
<td>Present ETH Research to Industry (SME)</td>
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<tr>
<td><strong>«Lokal Termin»:</strong> Selected Guests on ETH Campus</td>
<td>President / Foundation / HK, VP Research &amp; Corporate Relations</td>
<td>2 / year (2008)</td>
</tr>
<tr>
<td>Present ETH Research</td>
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<tr>
<td><strong>Spark Award:</strong> Best invention of the year</td>
<td>VP Research &amp; Corporate Relations, ETH transfer</td>
<td>1 / year (2012)</td>
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<tr>
<td>Recognize / stimulate inventors</td>
<td></td>
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<tr>
<td><strong>Meet the Pioneers:</strong> Fellowship Grant</td>
<td>VP Research &amp; Corporate Relations, Foundation / Office of Research / ETH transfer</td>
<td>2 / year (2012)</td>
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<tr>
<td>Further develop promising technologies</td>
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<tr>
<td><strong>Venture 20XX:</strong> Businessplan Competition</td>
<td>ETH Zurich (President / VPFW / ETH transfer), McKinsey, Commission for Technology &amp; Innovation (CTI)</td>
<td>Every other year (1998)</td>
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<tr>
<td>Stumble / celebrate entrepreneurship</td>
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<tr>
<td><strong>Home-Coming Dinner:</strong> Dinner with all ETH Spin-offs</td>
<td>VP Research &amp; Corporate Relations, ETH transfer</td>
<td>1 / year (2008)</td>
</tr>
<tr>
<td>Build Entrepreneur Community</td>
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<tr>
<td><strong>Thanks-Giving Event:</strong> Dinner with all ETH Foundation Partners</td>
<td>President / Foundation / HK, VP Research &amp; Corporate Relations</td>
<td>1 / year (2009)</td>
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<tr>
<td>Recognize support of partners</td>
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Tools and Instruments of the ETH ieLab

- **Focus Project**
  - Getting students excited about I&E
  - Experiencing production in other markets

- **Pioneer Fellowships**
  - Feasibility and Market

- **Coaching**
  - Training and experiencing I&E
  - Matching young entrepreneurs with industrial partners (R&D Venture)
  - Involvement of the partners through topical Partnership Council
  - Student Entrepreneur Club

**Spin-off's**

**ETH Industry Partner**

**Biotope for Innovation and Entrepreneurship**

- **Design/Architecture**
- **Life Science**
- **Engineering** (Incl. Energy & MedTech)
- **ICT / Production**
Disney Research Zurich as Role Model

- Founded in Autumn 2008
- ETH-Building in Downtown Zurich
- Director Prof. Dr. Markus Gross

- 28 Senior Scientists and Researchers
- 16 ETH PhD Students
- 51 ETH Master Projects
- 90 Research Projects
- 45 Patents filed (25 joint with ETH)
- > 50 Scientific Publications (30 Siggraph)
Thank you for your interest!