



Welcome to the ETH Zurich Innovation & Entrepreneurship Lab

Dr. Tomas Brenner, Head ieLab 10.11.2016

ETH Zurich at a Glance

Founded 1855

Swiss public technical University Driving force of industrialization in Switzerland

ETH Zurich in numbers

- ~ 20'000 students
- ~ 500 professors
- ~ 25'000 people from
- ~ 110 nationalities

Annual Budget

CHF 1.7 Billion

THE largest in the world for a public University!

Rankings

University Ranking from the Times Higher Education (THE)

- No. 1 in continental Europe
- **No. 9** in the world (2015)

Academic Ranking of World Universities from Shanghai Jiao Tong University

No. 20 in the world (2015)

Innovation Ranking Universities from the Times Higher Education (THE)

No. 13 in the Europe (2015)

Missions of the ETH Swiss ETH Law 1991

- Education
- Research
- Key Task of more than500 ETH Professors

Swiss Federal Law on the Swiss Federal Institutes of Technology (Bundesgesetz über die Eidgenössischen Technischen Hochschulen) ETH Law

of 4 October 1991 (Status as of 1 August 2008)

The Federal Assembly of the Swiss Confederation, with due regard to Articles 27 and 27^{****} of the Federal Constitution $^{1/2}$ and the Message of the Swiss Federal Council of 14 December 1987 3 ,

resolves:

Chapter 1: General provisions

Art. 1 Scope

This law shall apply to the Domain of the Swiss Federal Institutes of Technology (ETH Domain) comprising the following:

- a. Swiss Federal Institute of Technology Zurich (ETHZ);
- b. Swiss Federal Institute of Technology Lausanne (ETHL);
- c. 4 Research Institutes

Art. 2 Purpose

The role of the Swiss Federal Institutes of Technology (ETHs) and the Research Institutes shall be:

- a. to educate students and specialists in scientific and technical fields and ensure continuing education;
- b. to expand scientific knowledge through research;
- c. to foster junior scientific staff;
- d. to provide scientific and technical services;
- e. 5to ensure a dialogue with the public;
- f. 6to exploit their research findings.

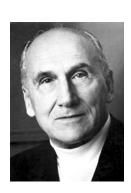
²These institutions come under the Confederation.

21 Nobel Laureates

1912	Chemistry	Alfred Werner
1915	Chemistry	Richard Willstätter
1918	Chemistry	Fritz Haber
1920	Physics	Charles-Edouard Guillaume
1921	Physics	Albert Einstein
1936	Chemistry	Peter Debye
1938	Chemistry	Richard Kuhn
1939	Chemistry	Leopold Ruzicka
1943	Physics	Otto Stern
1945	Physics	Wolfgang Pauli
1950	Medicine	Tadeusz Reichstein
1952	Physics	Felix Bloch
1953	Chemistry	Hermann Staudinger
1975	Chemistry	Vladimir Prelog
1978	Medicine	Werner Arber
1986	Physics	Heinrich Rohrer
1987	Physics	Georg Bednorz /
		Alexander Müller
1991	Chemistry	Richard Ernst
2002	Chemistry	Kurt Wüthrich



Albert Einstein



Vladimir Prelog



Leopold Ruzicka







Kurt Wüthrich

Missions of the ETH Swiss ETH Law 1991

Exploit research findings

Key Task of ETH Transfer

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Living a Culture of Innovation & Entrepreneurship at ETH Zurich



Innovation & Entrepreneurship Lab ETH



How to Achieve the Biggest Impact for Society?

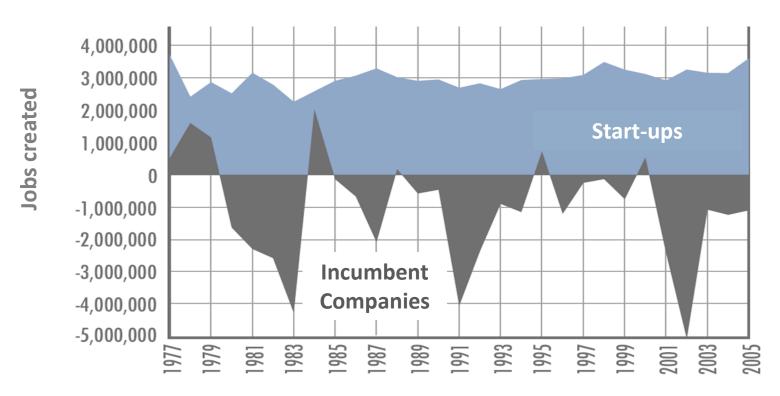


Start-ups

Large companies



Start-ups Create New Jobs (USA Data)



Data: Kauffman Foundation, USA

Every BIG company starts SMALL!

Entrepreneurship is an Integral Part of the ETH Culture



University

Industry



Focus Projects Student Projects

Pioneer Fellows

Spin-Offs Entrepreneurs

Company Executives









Departments

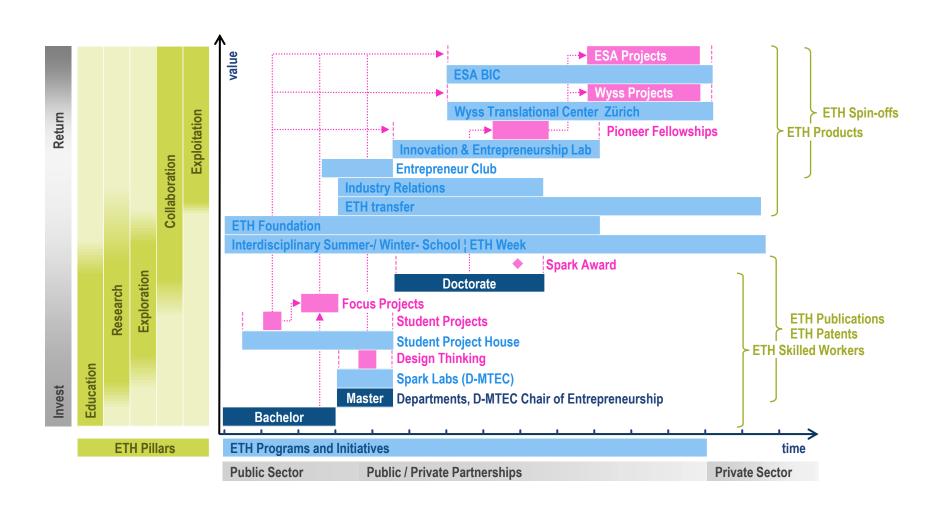
ieLab

Wyss Zentrum Technopark

Corporate World



ETH's Value Chain



Innovation & Entrepreneurship Lab ETH

Goals for ETH's Spin-off Companies

- better
- larger



- more valuable
- more sustainable

Ask successful entrepreneurs of ETH spin-off:

"What would have made a major difference in the early phases of your young start-up?"



What ETH Entrepreneurs Would Have Wanted ...

Seed Capital Initial funding to bridge the "valley of death"

from scientific findings to a early stage start-up

Peer Home A second home ("a biotope") for like-minded young

ETH scientists with entrepreneurial aspirations: Peer

support and peer pressure

Supervision and support by experienced, successful Coaching

entrepreneurs with a similar background: Compelling

role models

Networking Access to the **complete ETH network**, including its

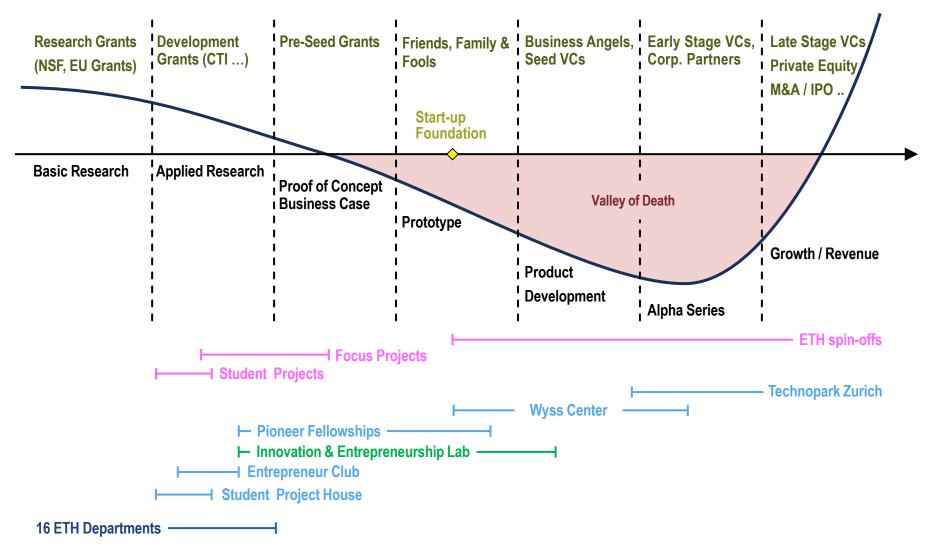
Professors, services, industry liaisons and more than

330 ETH spin-offs. Access to the start-up scene in CH

and international investors, founders, organizations



Valley of Death



Innovation & Entrepreneurship Lab ETH

Pioneer Fellowship Program - Moving Ideas to the Market



18 month duration, 150 KCHF seed funding

financed by donations (via ETH foundation)



an entrepreneurial career



Move **research results** to the market



Access to all services of the **Innovation & Entrepreneurship** Lab

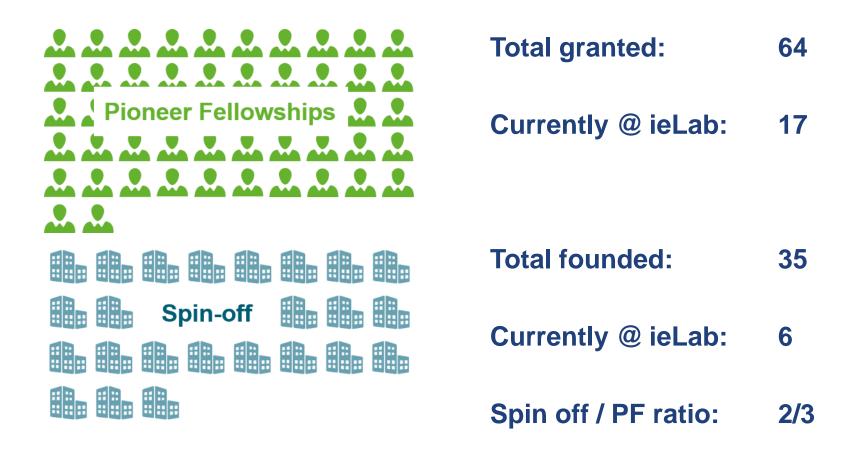
Benefits for program partners

- Interaction with tomorrow's entrepreneurs
- Early insight into groundbreaking technologies
- Participation in public & private events
- Visibility of partnership with ETH Zurich





ieLab & Pioneer Fellowship Program (2010 - 06/2016)



The Innovation & Entrepreneurship Lab (1/2)

The ieLab is ETH's venture incubator with two-fold mission

- **Promote ETH students** with entrepreneurial aspirations
- **Move research** results to the market

48 co-working spaces at 2 locations for close interactions between young entrepreneurs: Peer support and peer pressure!

42 Bio-safety lab benches with shared resources

Individual coaching by experienced ETH sherpas, industry experts and successful entrepreneurs.

Effective access to the enormous entrepreneur network of the ETH and the various ETH services through the ieLab team

The Innovation & Entrepreneurship Lab (2/2)

Entrepreneurship Trainings

weekly lunch seminars round tables canvas challenges immersion trainings

Networking Events

spin-off dinner thanksgiving dinner 3 Pi competition Pioneer Pi Pitch award ceremony

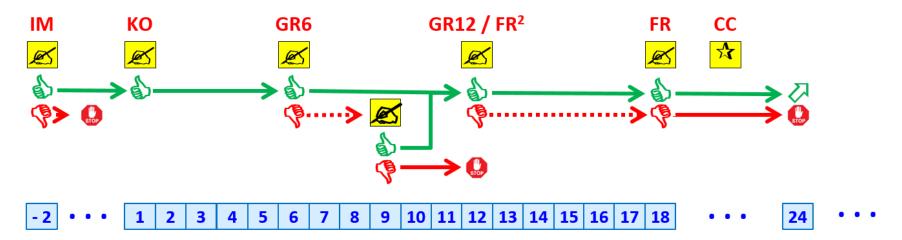


Social Media

Beekeeper - ETH founders community

The Pioneer Fellowship Lifecycle

Supervision of PF projects by Stage Gate Process



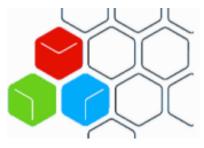


² Dual Pioneer Fellows

Impressions of the ieLab

ieLab LEO @ ETH Center **ICT & Engineering**







ieLab HPL @ ETH Hönggerberg Life Sciences





ETH Spin-off Highlights 2015







> 80 Mio. CHF Investments









Skybotix

Skybotix AG, in Zürich, CHE-114.755.772, Aktiengesellschaft (SHAB Nr. 148 vom 04.08.2015, Publ. 2304329). Statutenänderung: 19.08.2015. Firma neu: GoPro Switzerland. Uebersetzungen der Firma neu: (GoPro Switzerland Ltd) (GoPro Switzerland SA). Zweck neu: Die Gesellschaft bezweckt die Forschung und Entwicklung von Technologien für vielseitig einsetzbare Aufnahmegeräte.



http://techcrunch.com/2015/11/24/apple-faceshift/#.64mwj91:KBtt



Husqvarna Group Acquires Koubachi http://www.koubachi.com/press/press-releases/



Logitech kauft Zürcher Video-Startup

Das <u>Westschweizer Technologieunternehmen Logitech</u> hat vor kurzem das Zürcher Startup Upicto übernommen. Das mehrfach ausgezeichnete Spin-off der ETH Zürich hat einen Algorithmus entwickelt, der Inhalte von Videos analysiert, die relevanten Augenblicke auswählt und zugänglich macht, die Software lernt selbst wichtige Momente zu erkennen. Das ist etwa für Anbieter aus dem Bereich der Videoüberwachung interessant - also für Looitech.



GlycoVaxyn

S O L D! to GSK for > 212 Mio. USD

13 ETH Spin-Off Companies are placed in the **TOP 100**

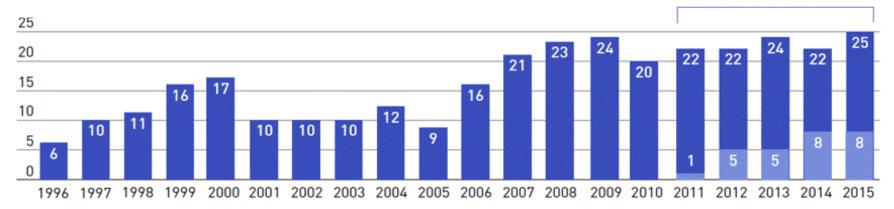


TOP 100 - The Best Swiss Startups 2015



330 ETH Spin-offs since 1996

Pioneer fellows have founded a total of 27 spin-offs since 2011



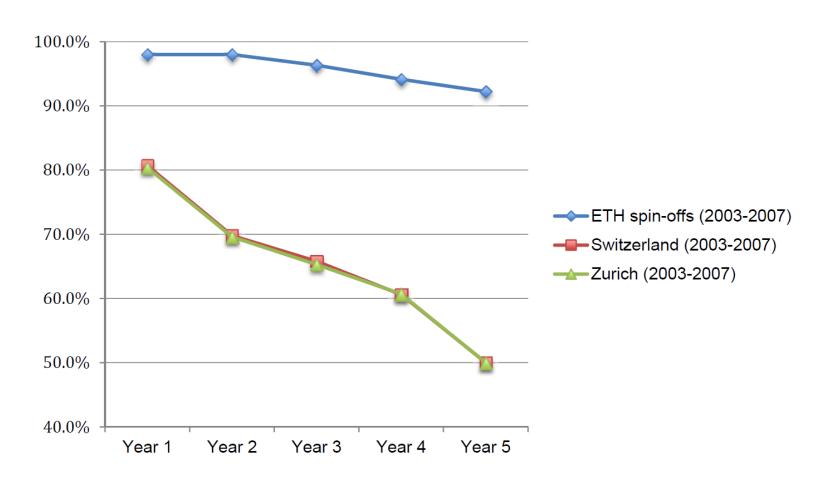
Since 1996

- Incorporated 330 ETH spin-offs
- 5 years survival rate is **92%** (rolling average)
- 1/3 Life Science, 1/3 ICT and 1/3 Engineering

In 2015:

- 25 ETH spin-offs
- 1/3 of the ETH spin-off were founded by Pioneer Fellows

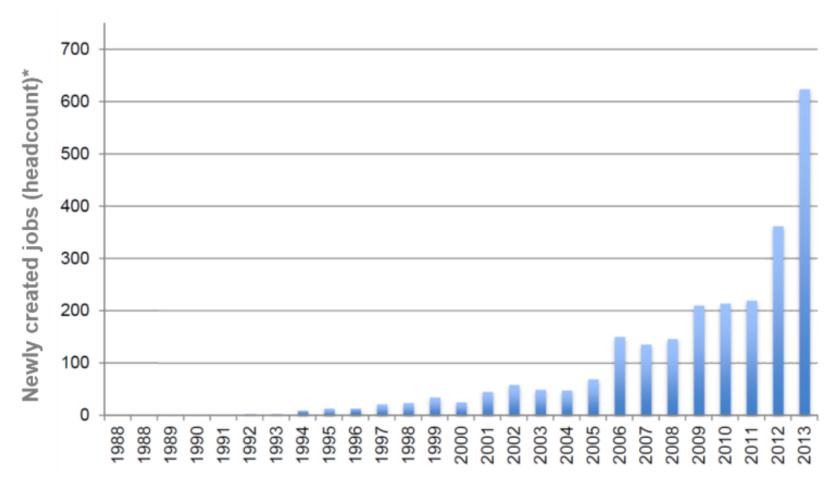
92% Survival Rate of ETH Spin-Offs vs. Swiss Start-Ups



Innovation & Entrepreneurship Lab ETH



Jobs Created by ETH Spin-Offs



125 Spin-off companies polled

The ieLab ETH in a Nutshell



ETH zürich



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