EPFL Innogrants & Support to Start-Ups
THE INNOVATION DILEMMA

“I read occasionally about attempts to set up "technology parks" in other places, as if the active ingredient of Silicon Valley were the office space. An article about Sophia Antipolis bragged that companies there included Cisco, Compaq, IBM, NCR, and Nortel. Don't the French realize these aren't startups?”

Paul Graham

“How to be Silicon Valley?”

Few startups happen in Miami, for example, because although it's full of rich people, it has few nerds. It's not the kind of place nerds like. Whereas Pittsburgh has the opposite problem: plenty of nerds, but no rich people.
How not to be Sophia Antipolis?

Ingredients of tech clusters...

- Universities and research centers of a very high caliber.
- An industry of venture capital (i.e. financial institutions and private investors).
- Experienced professionals in high tech.
- Service providers such as lawyers, head hunters, public relations and marketing specialists, auditors, etc.

Last but not least, an intangible yet critical component: a pioneering spirit which encourages an entrepreneurial culture.

Source: M. Kenney “Understanding Silicon Valley, the Anatomy of an Entrepreneurial Region”, in chapter: “A Flexible Recycling” by S. Evans and H. Bahrami
AGENDA

INNOVATION AND TECH. TRANSFER
THE INNOGRANTS
ROLE MODELS
ABOUT SOME INNOGRANTS
Campus (2018)
11,134 students, of whom 2,157 PhD students
347 faculty
3,903 staff (scientific & technical)

Spending (2018)
CHF 680M from State budget
CHF 285M other funding (EU, SNSF, private...)
Total: CHF 965M
EARLY AND CONTINUOUS COMMITMENT OF EPFL

2018 Focus on student entrepreneurs, Ygrants
2017 Focus on student entrepreneurs, Xgrants
2016 VPIV transformed as VPI with TTO joining VPR
2015 New Start-up Guidelines
2015 China Hardware Innovation Camp
2014: The Eurotech Venture Program (EVP)
2013: La Forge
2011: VPIV moves to Innovation Park
2010: EPFL Innovation Park
2009 : the Garage
2008 : seed fund
2007 : revised TT regulations & overhead policy
2006 : new partnerships : endowed chairs, indus. Incubators
2005 : centers, programs, Innogrants, TT Alliance
2004 : vice-presidency for innovation and tech. transfer (VPIV)
2003 : legal framework adapted for efficient TT
2000 : first equity deals
1999 : rules for remuneration of inventors and labs
1999 : entrepreneurship courses
1998 : technology transfer : creation of the TT office (SRI)
1997 : coaching for early stage start-up projects
1995 : pre-seed money for start-up projects : foundation FIT
1993 : IP strategy / licensing
1991 : science park created : foundation PSE
1988 : policy for research contracts & partnerships
1986 : two first major strategic industrial partnerships
1986 : industrial liaison program : Cast / association APLE

EPFL Innogrants | 2019
VPI - A FACILITATOR BETWEEN TWO WORLDS

**VPI**
- Strategic Partnerships
- Innovation Park
- Alliance - relationships / collaborations with SMEs
- Entrepreneurship
  - Innogrants
  - xgrants

**VPR**
- Transdisciplinary Centers & Discovery Projects
- Technology Transfer Office (TTO)
- Contracts / Licenses / PoC (Enable)

**VPE**
- Bachelors / Masters

**EPFL Community**
- (Professors, Researchers, Students)

**CORPORATES SMES START-UPS**

EPFL Innogrants | 2019

www.epfl.ch/innovation
What’s are Start-ups? What do they need?

In the USA, “a start-up is a temporary organization designed to search for a repeatable and scalable business model.”

*Steve Blank*

At EPFL, resources include:

- **Advice** (training, coaches, mentoring)
- **Funding** (grants, prizes, investments)
- **Office space** (co-working spaces, incubators, accelerators, science parks)
- **Exposure** (events, networking, role models, pitching of ideas)
- **Internationalization** (trips, bus. dev., foreign offices)
Funding: Surviving the “Valley of Death” at EPFL
It's not about Money only: A Rich and Dense Ecosystem

Advice/Training:

Exposure/networks:

Housing:

Research Grants
Development Grants
Preseed Grants
Friends, Family & Fools
Business Angels, Seed VCs
Early Stage VCs, Corp. Partners
Late Stage VCs (… M&A / IPO)

Basic Research
Applied Research
Proof of Concept / Business Case
Prototype Founders
Product Development
Company Fast Growth (Revenues, Employees)

A rich ecosystem More than funding

“Valley of Death”
A Rich Ecosystem

www.epfl.ch/innovation/entrepreneurship/start-your-venture

Support to Innovation around EPFL

An exhaustive pdf description is available online
https://short.epfl.ch/startup-support
Close Support: The EPFL Innovation Park

- The Innovation Park: 13 buildings for companies partnering & collaborating with EPFL
  epfl-innovationpark.ch

- Including 6 buildings for start-ups, offering a variety of value-added services (coaching, training, funding,…)

- The Garage (opened in 2008) for very early stage ventures.

- A co-working open-space for early projects

epfl-innovationpark.ch
“During the 1970s and 1980s, many of the top engineers from Fairchild, National and other companies would meet there to drink and talk about the problems they faced in manufacturing and selling semiconductors. It was an important meeting place where even the fiercest competitors gathered and exchanged ideas.”

“If there is a single point I wish to make here today, it is that as a discipline, both in industry and in academia, we are just not taking enough risks today.”

Richard Newton (1951-2007)
Any Start-up Project Takes Time

Pedro Bados (Nexthink) is a just one but clear illustration that even a friendly ecosystem will not avoid a long maturation.

Sept 03: Invention disclosure
March 04: Option for License
April 04: Patent filing

Janv. 04: contact with an IT expert

May 04: publication in Dialogue newsletter

Mar 04-Jun 04: coaching PSE financed by EPFL

June 04: Loan of CHF 100k

Avril-Sept 04: Further coaching

Sept 04: foundation of NEXThink SA

Déc. 04: Winner of the “startup competition”

Dec 04: contacts with VCs

Jan 05: 1st pilots with customers

April 06: 1st round CHF 1.6M

Jul. 07: 2nd round CHF 6M

As of 2018, more than 150M in funding, more than 300 employees, www.nexthink.com

Generate
Develop
Launch
Grow

A 2-3 year initial phase
EPFL Spin-offs

following

logitech

All EPFL start-ups on www.spied.ch

Graph showing the distribution of EPFL spin-offs by category and year from 1994 to 2018. The categories include:

- Others
- Energy-environment
- Sensors
- Electrical-electronics
- Micro-nanotech
- Mechanical
- Medtech
- Biotech
- IT

The chart includes bars for each year, with different colors representing the categories. A pie chart above the graph shows the percentage distribution of spin-offs across these categories for the years represented in the graph.
# High-Growth Start-ups (Present)

<table>
<thead>
<tr>
<th>Company</th>
<th>Founded</th>
<th>VCs</th>
<th>Amount raised</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dartfish</td>
<td>1998</td>
<td>Vinci, Intel</td>
<td>CHF 20M</td>
</tr>
<tr>
<td>Sensimed</td>
<td>2003</td>
<td>Wellington, Vinci</td>
<td>CHF 57M</td>
</tr>
<tr>
<td>Nexthink</td>
<td>2004</td>
<td>VI, Auriga, Highland Europe, Waypoint, Index</td>
<td>CHF 150M</td>
</tr>
<tr>
<td>Amazentis</td>
<td>2007</td>
<td>Waypoint, H. Wyss, P. Landolt, A. Hoffmann</td>
<td>CHF 32M</td>
</tr>
<tr>
<td>Aleva Neurotherapeutics</td>
<td>2008</td>
<td>Biomed Inv., BB Biotech, Defi Gestion, Banexi</td>
<td>CHF 44M</td>
</tr>
<tr>
<td>Bicycle Therapeutics Ltd</td>
<td>2009</td>
<td>Novartis Venture, Atlas, SR-One, Vertex</td>
<td>CHF 95M</td>
</tr>
<tr>
<td>Anokion</td>
<td>2010</td>
<td>Versant, Novartis, Novo</td>
<td>CHF 33M</td>
</tr>
<tr>
<td>Lightbend</td>
<td>2010</td>
<td>Greylock, Shasta, Polytech, Intel, IBM</td>
<td>CHF 52M</td>
</tr>
<tr>
<td>Abionic</td>
<td>2010</td>
<td>Polytech, Blue Ocean, Medholdings</td>
<td>CHF 13M</td>
</tr>
<tr>
<td>Kandou Bus</td>
<td>2011</td>
<td>Bessemer, Walden Intl.</td>
<td>CHF 40M</td>
</tr>
<tr>
<td>Mindmaze</td>
<td>2012</td>
<td>Hinduja Group, Buss angels (inc. Leonardo DiCaprio)</td>
<td>CHF 100M</td>
</tr>
<tr>
<td>Akselos</td>
<td>2012</td>
<td>Shell ventures, Innogy ventures</td>
<td>CHF 10M</td>
</tr>
<tr>
<td>L.E.S.S.</td>
<td>2012</td>
<td>VI Partners</td>
<td>CHF 3M</td>
</tr>
<tr>
<td>Cyberhaven</td>
<td>2014</td>
<td>Accomplice</td>
<td>CHF 2M</td>
</tr>
<tr>
<td>Cellestia</td>
<td>2014</td>
<td>FC Capital, PPF-Sotio, ETP Ventures</td>
<td>CHF 28M</td>
</tr>
<tr>
<td>GTX Medical (G-therapeutics)</td>
<td>2014</td>
<td>Gimv, Wellington Partners, LSP, Inkef Capital</td>
<td>CHF 30M</td>
</tr>
<tr>
<td>BestMile</td>
<td>2014</td>
<td>Partech, Serena, Airbus</td>
<td>CHF 16M</td>
</tr>
<tr>
<td>Flyability</td>
<td>2014</td>
<td>Swisscom Ventures, ETF Partners</td>
<td>CHF 16M</td>
</tr>
<tr>
<td>Lunaphore</td>
<td>2014</td>
<td>Zühlke Ventures, Polytech, Occident Group</td>
<td>CHF 8M</td>
</tr>
<tr>
<td>Gamaya</td>
<td>2015</td>
<td>VI Partners, ICOS Capital, Sandoz Foundation</td>
<td>CHF 8M</td>
</tr>
<tr>
<td>Inpher</td>
<td>2015</td>
<td>Polytech, Bowery, Crosslink, JP Morgan</td>
<td>CHF 13M</td>
</tr>
</tbody>
</table>
## High-Growth Start-ups (Past)

<table>
<thead>
<tr>
<th>Company</th>
<th>Founded</th>
<th>VCs</th>
<th>Amount raised</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snaketech</td>
<td>1997</td>
<td>Auriga, Innovacom, Sudinnova</td>
<td>CHF 3M</td>
<td>M&amp;A Cadence/Simplex</td>
</tr>
<tr>
<td>Cytion</td>
<td>1997</td>
<td>Banexi</td>
<td>CHF 5M</td>
<td>M&amp;A Molecular Dev.</td>
</tr>
<tr>
<td>Endoart</td>
<td>1998</td>
<td>Sofinnova, VI, Vinci</td>
<td>CHF 31M</td>
<td>M&amp;A Allergan</td>
</tr>
<tr>
<td>BeamExpress</td>
<td>2001</td>
<td>Index, Oak, i-source, Polytech</td>
<td>CHF 30M</td>
<td></td>
</tr>
<tr>
<td>Innovative Silicon</td>
<td>2002</td>
<td>Index, Austin, Highland, Auriga, Wellington</td>
<td>CHF 60M</td>
<td></td>
</tr>
<tr>
<td>HPL</td>
<td>2004</td>
<td>VI, DFJ ePlanet, BankInvest</td>
<td>CHF 8M</td>
<td>M&amp;A Dow Chemical</td>
</tr>
<tr>
<td>Biocartis</td>
<td>2007</td>
<td>Advent, KBC, Aescap</td>
<td>CHF 330M</td>
<td>IPO Brussels</td>
</tr>
<tr>
<td>Quartet Medicine</td>
<td>2013</td>
<td>Atlas, Novartis, Pfizer</td>
<td>CHF 23M</td>
<td></td>
</tr>
</tbody>
</table>
## In a Dynamic Ecosystem

Many companies attracted by the EPFL Innovation Park and the dynamic local economy

<table>
<thead>
<tr>
<th>Company</th>
<th>Founded</th>
<th>Amount raised</th>
<th>IPO</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Immune</td>
<td>2003</td>
<td>CHF 125M</td>
<td></td>
</tr>
<tr>
<td>Sophia Genetics</td>
<td>2011</td>
<td>CHF 140M</td>
<td></td>
</tr>
<tr>
<td>Leman Micro Devices (LMD)</td>
<td>2012</td>
<td>Undisclosed</td>
<td></td>
</tr>
<tr>
<td>Asceneuron</td>
<td>2012</td>
<td>CHF 36M</td>
<td></td>
</tr>
<tr>
<td>Coorpacademy</td>
<td>2013</td>
<td>CHF 14M</td>
<td></td>
</tr>
</tbody>
</table>

High-growth Institutional funding
High-Growth Start-ups

- CHF1.5B raised by EPFL spin-offs with venture capital and business angels

- In addition, many entrepreneurial alumni & academics
EPFL Spin-off Recent Exits

- **BioCartis**: IPO in April 2015 in Brussels
- **Lemoptix**: Acquired by
- **senseFly**: a Parrot company
- **PIX4D**: Acquired by
- **Jilion**: Acquired by
- **Intel**: Acquired by
- **Parrot**: Acquired by
- **aimago**: Acquired by
- **bugbuster**: Acquired by
- **Sensima Technology SA**: Acquired by
- **faceShift**: Undisclosed acquirer rumored to be Apple
- **Novadaq**: Acquired by
- **AppDynamics**: Bought by Cisco for $3.5B in Jan. 2017
- **MPS**: Monolithic Power Systems

Start-ups Exits
EPFL Spin-off 2017-18 Exits

Acquired by

KB MEDICAL

Acquired by

PIX4D

Acquired by

Parrot

Now Part of MindMaze

Acquired by

intento Gaitup

Acquired by

Mimotec

Acquired by

Acrotec Group
As a Summary

Start-ups at EPFL

A 16-page report published in June 2017 analyzing 312 EPFL spin-offs (165 since 2007) with a focus on

- Fund raising: CHF 1.2B overall
- Job creation: about 2’000 today in 200 firms
- Migrants: from 25% in the 90’s to 70% today

https://short.epfl.ch/spinoff-report
AGENDA

INNOVATION AND TECH. TRANSFER

THE INNOGRANTS

ROLE MODELS

ABOUT SOME INNOGRANTS
BACKGROUND

The Innogrants were created in February 2005 by EPFL with the support of Lombard Odier to:

- award grants that would encourage idea creation and help ideas to be developed,

- organize events facilitating the evolution of the innovation and entrepreneurial culture.

https://www.epfl.ch/innovation/entrepreneurship/start-your-venture/innogrants/
Sept premiers projets dans le giron de l’Innovation Network de l’EPFL

Un fonds pour transférer plus vite les nouveautés de l’EPFL vers l’économie

Initiative

Un parcours semé d’embûches

\textbf{Économie et Finance}

Distribution

Photographie

Marchés émergents

Les États-Unis, le MIT et l’EPFL vers l’économie

Innovators

In the media

WARM WELCOME
Facts & Figures

830+ requests
127 grants (CHF12.4M)
82 companies created
CHF 39M in new grants
CHF 345M in equity
9 exits (M&As)

<table>
<thead>
<tr>
<th>College</th>
<th>Contacts</th>
<th>%</th>
<th>Grants</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>STI</td>
<td>217.5</td>
<td>26%</td>
<td>52</td>
<td>41%</td>
</tr>
<tr>
<td>IC</td>
<td>121</td>
<td>14%</td>
<td>30.5</td>
<td>24%</td>
</tr>
<tr>
<td>SB</td>
<td>82.5</td>
<td>10%</td>
<td>16.5</td>
<td>13%</td>
</tr>
<tr>
<td>SV</td>
<td>58</td>
<td>7%</td>
<td>14</td>
<td>11%</td>
</tr>
<tr>
<td>ENAC</td>
<td>37</td>
<td>4%</td>
<td>2</td>
<td>2%</td>
</tr>
<tr>
<td>CDM/CDH</td>
<td>26.5</td>
<td>3%</td>
<td>4</td>
<td>3%</td>
</tr>
<tr>
<td>Students</td>
<td>86</td>
<td>10%</td>
<td>4</td>
<td>3%</td>
</tr>
<tr>
<td>External</td>
<td>207.5</td>
<td>25%</td>
<td>8</td>
<td>6%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>836</strong></td>
<td></td>
<td><strong>127</strong></td>
<td></td>
</tr>
</tbody>
</table>

STI (Engineering); IC (Computer Science Communications); SV (Life Sciences); ENAC (Environment & Architecture); SB (Basic Sciences); CDM (College of Management de Technology)

Innogrant origin

Innogrant vs. Immigrant
The SNF Spin Funds

Similar to the Innogants in the IT field, managed by EPFL, Swiss-wide; ended in 2012.

16 projects (CHF 1.9M)
7 start-ups, 35M equity

http://www.mics.org/spinfund

Established in July 2013
4 projects

http://www.nccr-robotics.ch/tech-transfer/startups/spinfund
A Bet on People

with the support of

Young entrepreneurs

Innogrants
AGENDA

INNOVATION AND TECH. TRANSFER

THE INNOGRANTS

ROLE MODELS

ABOUT SOME INNOGRANTS
Not Always Rational

“Launching a start-up is not a rational act. Success only comes from those who are foolish enough to think unreasonably. Entrepreneurs need to stretch themselves beyond convention and constraint to reach something extraordinary.” Vinod Khosla

“The difference is in psychology: everybody in Silicon Valley knows somebody that is doing very well in high-tech small companies, start-ups; so they say to themselves “I am smarter than Joe. If he could make millions, I can make a billion”. So they do and they think they will succeed and by thinking they can succeed, they have a good shot at succeeding. That psychology does not exist so much elsewhere.” Tom Perkins
IT’S ALSO ABOUT ROLE MODELS

Le 24 novembre
Auditorium SG 1
Inscriptions: www.venturelab.ch/fr/vides.asp
IT’S ALSO ABOUT ROLE MODELS
**Startup Champions @ EPFL**

**Swiss Success: world Impact**

**Wednesday, April 22nd, 2015**

from 14:00 – 17:00 (doors open 13h30)

Rolex Learning Center Forum, EPFL

**Speakers**

- Christoph Strecha
  Founder & CEO of **Pix4D**
- Jean-Christophe Zufferey
  Co-founder & CEO of **senseFly**
- Henri Seydoux
  Founder & CEO of **Parrot**
- Sari Baldauf
  **Sarifly**
- Hélène Layes
  **SenseFly**
- Alex Leschke
  **Vélociport**
- Regine Sutter
  **Silepto**
- Christian Meier
  **Kainos Capital**
- Sami Ourkous
  **Sapienza**
- Olivier Rabilloud
  **Sonara**
- Sébastien Railon
  **Usercentric**
- Sigrid Hinkle
  **E-Comms**
- Christophe Maire
  CEO and Founding Partner of **Atlantis Labs**
- Sébastien Faux
  **Tellus**
- Pierre Scherer
  **Zehnder**
- Rino Mena
  **Zehnder**
- Gérard Gaudon
  **Université de Genève**

**venture leaders 2015**

**Juri Cangiano**
CEO and Co-founder of **Knip**

**Nicolas Abé**

co-founder and CEO of **Silepto**

**Audrey Pletsch**

Acquired by IHC

**How to build a Billion dollar Company**

**Speaker**

- **Founder.org**

**Michael Baum**

Founder & CEO of founder.org

Founder of **Sphink** (FR1)

Founder of 5 other startups (5 exits)

**Thursday, February 19th, 2015**

from 12:30 to 13:30, Rolex Learning Center, EPFL

Registration is mandatory. Register for free on [www.founder.org/tickets](http://www.founder.org/tickets)

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**Thursday, November 6th, 2014**

from 12:00 to 14:00, Room BC420, EPFL

Mandatory registration: [www.vmce.epfl.ch](http://www.vmce.epfl.ch)

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**Startup Champions @ EPFL**

**Thursday, April 21st, 2016**

from 14:00 – 17:00 (doors open 13h30)

Rolex Learning Center Forum, EPFL

**Speakers**

- Dennis Juszczak
  CEO and Co-founder of **Knip**
  (Acquired)
- Christophe Maire
  CEO and Founding Partner of **Atlantis Labs**
  (acquired in 2019 by **Pecten**)
- Davide Bove
  **Catalyze**
- Fabrice Legjreni
  **Titan**

**venture leaders 2016**

**Davide Bove**

CEO and Co-founder of **Catalyze**

**Fabrice Legjreni**

CEO and Co-founder of **Titan**

**Pierre-Charles Clavel**

CEO and Co-founder of **Claval**

**Dr. Robert Tauri**

CEO and Co-founder of **Tauri**

**Registration free but mandatory:** [www.venturelab.ch/SC](http://www.venturelab.ch/SC)

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**World-class STARTUPS. Swiss made.**

**Startup Champions @EPFL**

**The road to Exit**

**Date:** Wednesday, November 25th, 2015

**Time:** From 17:00 – 20:00 (doors open 16:30)

**Place:** Rolex Learning Center Forum, EPFL

**Speakers**

- **Maximilian Schmütrich**
  **Axxo**
- **Alex Dobbie**
  **Bakcell**
- **Günesclipart**
  **Tudo**

**Registration free but mandatory:** [www.venturelab.ch/SC](http://www.venturelab.ch/SC)
Innogrants Events

Keynote

Seeds Night pitch competition

24 world-class startups selected for a unique pitch competition, including the 20 winners of the venture leaders program and entrepreneurship.

Join us to vote for the best startups.

World-class STARTUPS. Swiss made.

Startup Champions @ EPFL

Wednesday, May 2nd, 2018
from 18:30 - 21:00 (doors open at 17:00 for startups' exhibition)
Rolex Learning Center Forum, EPFL

Save your ticket now: www.venturelab.ch/startup-champions-seed-night

Keynote

Seeds Night pitch competition

20 world-class startups selected for a unique pitch competition, including the 10 Venture Leaders Life Sciences and the next generation of entrepreneurs.

Join us to vote for the best startups.

World-class STARTUPS. Swiss made.

Startup Champions @ EPFL

Wednesday, April 26th, 2017
from 18:30 - 21:00 (doors open at 17:00 for startups' exhibition)
Rolex Learning Center Forum, EPFL

Save your ticket now: www.venturelab.ch/startup-champions-seed-night

Keynote

Seeds Night pitch competition

24 world-class startups selected for a unique pitch competition, including the 20 winners of the venture leaders program and entrepreneurship.

Join us to vote for the best startups.

World-class STARTUPS. Swiss made.

Startup Champions @ EPFL

Wednesday, October 25th, 2017
from 17:30 - 19:00 (doors open at 17:00)
Rolex Learning Center Forum, EPFL

Keynotes:

From founder of Siri to Senior Software Engineer at Apple
Didier Guessen

From founder of KB Medical, to Vice President, International Product Development, Robotics at Globus Medical
Szymon Kostrewski

Free but mandatory registration: www.venturelab.ch/SUC

Student's special: Learn more about how EPFL supports students with a business idea and get inspired from young EPFL graduates. Register and apply: www.epfl.ch/innovation/entrepreneurship/events/startup-champions/
Drink Local, Think Global

So let me just add my translation of a quote by Daniel Borel, co-founder of Logitech and one of the infrarouge guests, that is extracted from an interview to magazine Trajectoire published on November 16, 2009. I think that it is consistent with what I usually publish here:

“The only answer that I may provide is the cultural difference between the USA and Switzerland. When we founded Logitech, as Swiss entrepreneurs, we had to enter very soon the international scene. The technology was Swiss but the USA, and later the world, defined our market, whereas production quickly moved to Asia. I would not like to look too affirmative because many things change and many good things are done in Switzerland. But I feel that in the USA, people are more opened. When you receive funds from venture capitalists, you automatically accept an external shareholder who will help you in managing your company and who may even fire you. In Switzerland is not very well accepted. One prefers a small pie that is fully controled to a big pie that one only controls at 10%, and this may be a limiting factor”.

Tags: Switzerland

This entry was posted on Friday, May 28th, 2010 at 9:08 am and is filed under Silicon Valley and Europe. You can follow any responses to this entry through the RSS 2.0 feed. You can leave a response, or trackback from your own site.
Silicon Valley, Still The Model...

Steve Jobs about why Silicon Valley “[There are] two or three reasons. You have to go back a little in history. I mean this is where the beatnik happened in San Francisco. It is a pretty interesting thing... You've also had Stanford and Berkeley, two awesome universities drawing smart people from all over the world and depositing them in this clean, sunny, nice place where there's a whole bunch of other smart people and pretty good food. And at times a lot of drugs and all of that. So they stayed... I think it’s just a very unique place”

Don Valentine on Founders: “Founders are genetically impossible by choice.” “There are only two true visionaries in the history of Silicon Valley. Jobs and Noyce. Their vision was to build great companies... Steve was twenty, un-degreed, some people said unwashed, and he looked like Ho Chi Min. But he was a bright person then, and is a brighter man now... Phenomenal achievement done by somebody in his very early twenties... Bob was one of those people who could maintain perspective because he was inordinately bright. Steve could not. He was very, very passionate, highly competitive.”
AGENDA

INNOVATION AND TECH. TRANSFER
THE INNOGRANTS
ROLE MODELS
ABOUT SOME INNOGRANTS
# Innogrants - 2005

<table>
<thead>
<tr>
<th>Project</th>
<th>Laboratory (School)</th>
<th>People</th>
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<tbody>
<tr>
<td>Mimosys</td>
<td>Processor Architecture Laboratory (IC/LAP)</td>
<td>Paolo Ienne / Jason Brown</td>
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<tr>
<td>Production of proteins</td>
<td>Cellular Biotechnology Laboratory (External &amp; SV/LBTC)</td>
<td>Peter Bromley / Florian Wurm</td>
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<td>Cytomec</td>
<td>Orthopaedic Research Division (STI)</td>
<td>Tom Quinn</td>
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<td>DAAV technologies</td>
<td>Distributed Information Systems Laboratory (IC/LSIR)</td>
<td>Jie Wu</td>
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<tr>
<td>Opt.im</td>
<td>Artificial Intelligence Laboratory (IC/LIA)</td>
<td>Ion Constantinescu</td>
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<tr>
<td>Cooling techniques of microprocessors</td>
<td>Heat and Mass Transfer Laboratory (STI/LTCM)</td>
<td>James DeRose</td>
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<tr>
<td>Anokion</td>
<td>Merck Serono Chair in Drug Delivery (SV/LMRP)</td>
<td>Jeff Hubbell</td>
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![Mimosys Logo](#)  
![DAAV Technologies Logo](#)  
![Cytomec Logo](#)  
![Opt.im Logo](#)  
![Digital Optim Logo](#)
## Innogrants - 2006

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<td>Alexandre Serov</td>
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<td>Laurence Mathieu</td>
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<td>Attolight</td>
<td>Laboratory of Quantum Optoelectronics (SB/LOEQ)</td>
<td>Samuel Sonderreger</td>
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<td>Algorithmics Laboratory (IC/ALGO)</td>
<td>Zeno Crivelli</td>
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<td>Inocs</td>
<td>Integrated Systems Laboratory(STI/IC)</td>
<td>Srinivasan Murali</td>
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<td>RouteRANK</td>
<td>Laboratory for Computer Communications and Applications (IC/LSA2)</td>
<td>Jochen Mundinger</td>
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## INNOGRANTS - 2007

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<td>Prediggo</td>
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<td>Vincent Schickel</td>
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<td>Industrial Electronics Laboratory (STI/LEI)</td>
<td>Sylvain Lemofouet</td>
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<td>Gliapharm</td>
<td>Laboratory of Neuroenergetics and Cellular Dynamics (SV/LNDC)</td>
<td>Luc Pélerin</td>
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<td>Adrian Petcu</td>
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<td>Gaiasens</td>
<td>Environmental Fluid Mechanics Laboratory (ENAC/EFLUM)</td>
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<td>Microsystems Laboratory (STI/LMIS4)</td>
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### Innogrants - 2008

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<td>Social Web Browsing</td>
<td>Operating Systems Laboratory (IC/LABOS)</td>
<td>Rodrigo Schmidt</td>
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<td>Laboratory of Advanced Semiconductors for Photonics and Electronics (SB/LASPE)</td>
<td>Eric Feltin</td>
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<td>ExCellness</td>
<td>Laboratory of Cell Biophysics (SB/LCB)</td>
<td>Pierre-Jean Wipff</td>
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<td>Aïmago</td>
<td>Laboratory of Biomedical Optics (STI/LOB)</td>
<td>Michael Friedrich</td>
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<td>Aleva Neurotherapeutics</td>
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<td>Andre Mercanzini</td>
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<td>Antispam and filtering methods</td>
<td>Laboratory for Computer Communications and Applications (IC/LSA2)</td>
<td>Slavisa Sarafijanovic</td>
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<td>Madeinlocal</td>
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<td>Manuel Acevedo</td>
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## Innogrants - 2009

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<tr>
<td>Minsh</td>
<td>Distributed Systems Laborator (IC/LSR)</td>
<td>Barbara Yersin / Jonathan Maim</td>
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<td>Ozwe</td>
<td>Pedagogical Research and Support (CRAFT)</td>
<td>Frédéric Kaplan</td>
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<td>Wippso</td>
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<td>Marco Mattavelli</td>
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<td>Anti-tumour Agents</td>
<td>Laboratory of Glycochemistry and Asymmetric Synthesis (SB/LGSA)</td>
<td>Claudia Bello</td>
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<td>Imina</td>
<td>Robotic Systems Laboratory 2 (STI/LSRO2)</td>
<td>Guillaume Boetsch / Benoit Dagon / Christophe Canales</td>
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# INNOGRANTS - 2010

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<tr>
<td>GoldenMMA</td>
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<td>Bastien Rachet</td>
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<td>Lake Mind Cloud Management</td>
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<td>Jean-Philippe Martin Flatin</td>
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<td>Abionic</td>
<td>Microsystems Laboratory 4 (STI/LMIS4)</td>
<td>Nicolas Durand</td>
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<td>Samantree</td>
<td>Laboratory of Physical Chemistry of Polymers and Membranes (SB/LCPPM)</td>
<td>Davor Kosanic</td>
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<td>BugBuster</td>
<td>Operating Systems Laboratory (IC/LABOS)</td>
<td>Olivier Cramer / John Renault</td>
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![abionic logo](image1.png)  
![bugbuster logo](image2.png)  
![SamanTree logo](image3.png)
# Innogrants - 2011

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<tr>
<td>Mindmaze</td>
<td>Laboratory of Cognitive Neuroscience (SV/LNCO)</td>
<td>Tej Tadi</td>
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<td>Therapeutics for ALS</td>
<td>Polymers Laboratory (STI/LP)</td>
<td>Harm-Anton Klok</td>
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<td>L.E.S.S. - Nanofiber illuminator</td>
<td>STI Scientists Group (STI/GR-STI)</td>
<td>Yann Tissot &amp; Simon Rivier</td>
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<td>Swiss to 12</td>
<td>Laboratory of the Physics of Nanostructured Materials (SB/LPMN)</td>
<td>Alessandro Macor &amp; Emile de Rijk</td>
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<tr>
<td>KB Medical</td>
<td>Robotic Systems Laboratory 2 (STI/LSRO2)</td>
<td>Philippe Bérard &amp; Szymon Kostrzewski</td>
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<td>Azbooka</td>
<td>Ceramics Laboratory (STI/LC)</td>
<td>Evgeny Miljutin</td>
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# Innogrants - 2012

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<td>Robotic Systems Laboratory 1 (STI/LSRO1)</td>
<td>Ricardo Beira</td>
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<td>Cellestia Biotech</td>
<td>Prof. Radtke's Unit (SV/UPRAD)</td>
<td>Rajwinder Lehal</td>
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<td>Elodie Dahan</td>
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<td>Faceshift</td>
<td>Computer Graphics and Geometry Laboratory (IC/LGG)</td>
<td>Thibaut Weise</td>
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<td>Nanolive - super-resolution microscopy</td>
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<td>Yann Cotte</td>
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<td>Morphotonix</td>
<td>Microsystems Laboratory 1 (STI/LMIS1)</td>
<td>Shenqi Xie &amp; Vaida Auzelyte</td>
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<td>Nanoga- DNA Watch</td>
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<td>Nasser Hefyene</td>
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<td>SmartCardia</td>
<td>Embedded Systems Lab. (STI/ESL)</td>
<td>Srini Murali</td>
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<td>Shoelace Wireless</td>
<td>Laboratory of Algorithmic Research on Networked Information(IC/ARNI)</td>
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About some Innogrants 2012
## Innogrants - 2013

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<tr>
<td>Playfulvision</td>
<td>Computer Vision Laboratory (IC/CVLAB)</td>
<td>Horesh Ben Shitrit</td>
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<td>Makur</td>
<td>L'IDIAP Laboratory (STI/LIDIAP)</td>
<td>Joan Isaac Biel</td>
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<td>Ata Tuna Ciftlik</td>
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<td>Industrial Electronics Laboratory (STI/LEI)</td>
<td>Simon Delalay &amp; Nicolas Cherix</td>
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<td>Cristian Zamfir</td>
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<td>Brain &amp; Mind Institute (SV/BMI)</td>
<td>Vincent Delattre</td>
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<td>Bright Sensors</td>
<td>Microtechnics Production Lab. (STI/LPM)</td>
<td>Gael Farine &amp; Conor Slater</td>
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<td>Rovenso</td>
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<td>Thomas Estier</td>
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<td>Anemomind</td>
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## Innogrants - 2014

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<td>Xsensio</td>
<td>Nanoelectronic Devices Lab (STI/NANOLAB)</td>
<td>Esmeralda Magally</td>
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<td>Data-Intensive Applications and Systems Lab. (IC/DIAS)</td>
<td>Miguel Branco</td>
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<td>Cloud Storage</td>
<td>Image and Visual Representation Laboratory (IC/IVRG)</td>
<td>T. Lochmatter, R. Achanta</td>
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<td>Biosemic</td>
<td>Laboratory of the Physics of Living Matter (SB/LPMV)</td>
<td>Wiktor Lisowksi</td>
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<td>Lucentix</td>
<td>Laboratory of Protein Engineering (SB/LIP)</td>
<td>Rudolf Griss &amp; Alberto Schena</td>
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<td>Intento</td>
<td>Chair in Non-invasive Brain-machine Interface (STI/CNBI)</td>
<td>Andrea Maesani &amp; Andrea Biasiucci</td>
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<td>SensArs Neuroprosthetics</td>
<td>Translational Neural Engineering Laboratory (STI/TNE)</td>
<td>F. Petrini, S. Raspopovic, M. Capogrosso</td>
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<td>Sun Biosciences</td>
<td>Laboratory of Stem Cell Bioengineering (SV/LSCB)</td>
<td>Sylke Hoehnel &amp; Nathalie Bradenberg</td>
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<td>Real-Time Coordination &amp; Dist. Interact. Syst. (STI/REACT)</td>
<td>Andrii Vozniuk</td>
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<td>Nowy</td>
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<td>L. Gardiol, A. Chamseddine &amp; S. Andrica</td>
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<td>Artificial Intelligence Laboratory (IC/LIA)</td>
<td>Claudiu Musat</td>
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<td>Audiovisual Communications Lab (IC/LCAV)</td>
<td>Juri Ranieri &amp; Ivan Dokmanic</td>
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# Innogrants - 2015

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<td>Laboratory of Theoretical Physical Chemistry (SB/LCPT)</td>
<td>Alberto Hernando de Castro, Miroslav Sluc, Marius Wehrle &amp; Eduardo Zambrano</td>
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<td>Swiss Sonic Production</td>
<td>Laboratory of Microengineering for Manufacturing (STI/LPM)</td>
<td>Csaba Laurenczy</td>
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<td>Viktoria Reinmüller</td>
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<td>Group Kayal (STI/GR_KA)</td>
<td>Nastaran Asadi Zanjani, Johann Bigler &amp; Jean-Charles Fosse</td>
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<td>Laboratoire de Systèmes Robotiques (STI/LSRO)</td>
<td>Marek Jancik &amp; Tristan Vouga</td>
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<td>Aeler - EEG buds</td>
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<td>Naik Londono</td>
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<td>Andreas Schmocker, Azadeh Khoushabi</td>
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<td>GRZ Technologies</td>
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# Innogrants – 2017

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<td>Powder Technology Laboratory (STI/LTP)</td>
<td>Abhishek Kumar</td>
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<td>Prof. Oates Group (SV/UPOATES)</td>
<td>Petr Strnad, Andrea Boni</td>
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<td>Imverse</td>
<td>Foundation Bertarelli Chair in Cognitive Neuroprosthetics (SV/LNCO)</td>
<td>Javier Bello Ruiz, Robin Mange</td>
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<td>ADC Imaging</td>
<td>Laboratory of Bioorganic Chemistry and Molecular Imaging (SB/LCBIM)</td>
<td>Aleksey Yevtodiyenko &amp; Elena Dubikovskaya</td>
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<td>Microbiome Diagnostics</td>
<td>Chair of Applied Statistics (SB/STAP)</td>
<td>Paulo Refinetti</td>
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<td>Mirraccle</td>
<td>Biomedical Imaging Laboratory (STI/LIB)</td>
<td>Daniel Schmitter, Zsuzsanna Püspöki, Pablo Garcia-Amorena</td>
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<td>Feeltronix</td>
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<td>Arthur Edouard Hirsch, Aaron Gerratt, Hadrien Michaud</td>
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<td>Retina Imaging</td>
<td>Laboratory of Applied Photonic Devices (STI/LAPD)</td>
<td>Timothé Laforest, Dino Carpentras, Mathieu Kunzi</td>
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<td>Tomoprint</td>
<td>Laboratory of Applied Photonic Devices (STI/LAPD)</td>
<td>Damien Loterie, Paul Delrot</td>
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<td>Guillaume Petit-Pierre, Marc Boers</td>
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<td>Marco Grisi, Marc Conley</td>
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<td>Soil Mechanics Laboratory (ENAC/LMS)</td>
<td>Dimitrios Terzis</td>
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<td>Mano</td>
<td>Defitech Foundation Chair in Brain-machine Interface (STI/CNBI)</td>
<td>Luca Randazzo</td>
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*About some Innogrants 2017*
## InnoGrants – 2018

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<thead>
<tr>
<th>PROJECT</th>
<th>LABORATORY (FACULTY)</th>
<th>PEOPLE</th>
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<tr>
<td>Foldaway Haptics</td>
<td>Reconfigurable Robotics Lab (STI/RRL)</td>
<td>Marco Salerno, Stefano Mintchev</td>
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<td>Neural Concept</td>
<td>Computer Vision Lab (IC/CVLAB)</td>
<td>Pierre Baqué</td>
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<tr>
<td>Prediva</td>
<td>Integrated Systems Laboratory (IC-STI/LSI1)</td>
<td>Nicee Srivastava</td>
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<td>CO2 Transformation</td>
<td>Laboratory of Organometallic and Medicinal Chemistry (SB/LCOM)</td>
<td>Felix Bobbink</td>
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<tr>
<td>3seNs</td>
<td>Laboratory of Advanced Semiconductors for Photonics and Electronics (SB/LASPE)</td>
<td>Pirouz Sohi &amp; Ian Rousseau</td>
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<tr>
<td>EMETS – Water Treatment</td>
<td>Laboratory of Inorganic Synthesis and Catalysis (SB/LSCI)</td>
<td>Chin Lee (Jeff) Ong</td>
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<td>3D MetalPrinting</td>
<td>Laboratory of Thermomechanical Metallurgy (STI/LMTM)</td>
<td>Nikola Kalentics</td>
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<td>GoBeyond</td>
<td>Optics and Photonics Technology Laboratory (STI/OPT)</td>
<td>Nicolas Decharmes, Raphael Barbey</td>
</tr>
<tr>
<td>NeuralSoft</td>
<td>Laboratory for Soft Bioelectronic Interfaces (STI/LSBI)</td>
<td>Nicolas Vachicouras, Ludovic Serex, Florian Fallegger</td>
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<tr>
<td>FloChiP</td>
<td>Laboratory of Systems Biology and Genetics (SV/LSBG)</td>
<td>Riccardo Dainese</td>
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<tr>
<td>Bionomous</td>
<td>Robotic Systems Laboratory (STI/LSRO)</td>
<td>Frank Bonnet</td>
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<td>Warp Coding</td>
<td>Operating Systems Laboratory (IC/LABOS)</td>
<td>Nikolche Mihajlovski</td>
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INTERNET AND SOFTWARE
ELECTRONICS
OTHER HARDWARE (ROBOTICS, MECHANICS, SENSORS)
ENERGY & ENVIRONMENT
MEDICAL DEVICES & BIOTECHNOLOGY
Travel Planning

Planning your travel is easy as 1,2,3
routeRANK integrates road, rail and air travel within Europe!
Flight information is also available for all major airports world-wide.

1. Search
   Start typing a name and choose from a list of available locations.

2. Select
   Sort the results according to what is most important to you – travel means, travel time, price, and CO2 emissions.

3. Buy
   Follow the links to travel providers’ websites where you can purchase your tickets or find more information.

Travel Green
   Sort your results by CO2 emissions to find the most ecological way of travelling.
Recommendation Solution

Patented Technology
Profile Targeting
Catalog Modeling
Marketer Tools

Intelligent Cross Selling
Smarter Search
Dynamic Merchandising
1 to 1 Marketing

« Our online conversion rate went up 50% »
Moevenpick AG.

Vincent Schickel

About some Innogrants
A Social Network
Math Centers that Deliver — Differentiation Done Right

While you teach small groups, HappyNumbers serves as an independent math center, providing individualized instruction for the rest of the class.

I’m a Teacher
Sign in to your account or sign up for one

I’m a Student
Sign in to your account (created by your teacher)
Local Information
Chef’s Road

Food supply chain

farmer

Transport

storage

Transport

storage

consumer
Web Testing

About some Innogrants

Internet
Cyberhaven

Test Report
15 bugs found

SQLite DB
Library
2 invalid memory accesses
3 memory corruption bugs

Memcached
Application
2 concurrency bugs
3 resource leaks

Realtek RTL8029
Network device driver
4 kernel crashes
1 resource leak

© Agile Gibbon - 2013

About some Innogrants

Internet
Cloud Management

Value chain in public clouds

End-User Organizations

SaaS Providers

PaaS Providers

IaaS Providers

Data Centers + Networks

About some Innogrants
Mobile Software Apps

Gallery: Windows Mobile

File Galleries > 大武科技手机个性化信息助手 > 大武智能短信分拣器 > 简洁版（Basic Edition） > Windows Mobile平台

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Jie Wu
Internet and Mobile Apps

SublimeVideo

HTML5 Video Player

New York City | UNITED STATES

06:08 PM
Thursday, May 12, 2013

Acquired by

Zeno Crivelli
Network Technologies for Mobile

Graphical Use Interface for Microcast prototype for video streaming

About some Innogrants
Software Applications

Complete signage solution at your fingertips

Use your content or customize our templates

Our Website

LCD Display 42” In

6 ft

At Your Locations

COMING SOON
[preview access]

LCD Frame 10”, 15” In

Ion Constantinescu
Motion Capture

realtime markerless motion capture at every desk

what is faceshift

- faceshift is accurate, effortless, and affordable markerless facial performance capture.
- faceshift uses depth cameras such as Microsoft's Kinect to animate rigs in real time.
- faceshift works seamlessly for fast facial expressions, head motions, and difficult environments.

Undisclosed acquirer rumored to be Apple
Video Tracking

About some Innogrants

Software

Acquired by
Second Spectrum

Horesh Ben Shitrit
Vision & Sailing

Advanced data processing algorithms and devices to help sailors win races.

How it Works

1. Grab your anemobox
2. Go sailing
3. Get real-time performance diagnostic
4. Share and visualize
Makur

**Figure 1:** Video screening job candidates explained in four steps.
RAW Labs

Efficient access to RAW data
Cloud Storage

Today’s cloud services

untrusted international networks

untrusted cloud storage provider

untrusted WLAN

DSL untrusted

GCHQ

NSA

↔ download  upload →
Hello Graspeo!

Share Knowledge **Privately**

**Hello Graspeo!**

**Graspeo Server**

- Filename
- Time
- Owner

**Filename**

**Time**

**Owner**

**Syncing with Peer-to-Peer**
Nowy

Nowy Friends
Know when your friends are nearby

Powered by Nowy

https://nowyapp.com/

Loïc Gardiol, Amer Chamseddine & Silvi Andrica
EAR : Enhanced Auditory Reality

We want to create a bridge between enhanced hearing, wearables and augmented reality. Our vision is to allow everyone, with or without hearing losses, to design and augment their auditory experience. Our technology would process the sounds recorded by microphones and video from a camera to locate sound sources, amplify what we like, silence what annoys us, and inform us about what we hear. These features require innovative signal processing that cannot be implemented on traditional HAs, which provides tools and data to augment the auditory reality of the user; they also require innovation in human-computer interfaces.
Recent advances in Artificial Intelligence, including the mixture of machine learning with Human Computation, open possibilities that were unthinkable a few short years ago. We leverage these technological gains to achieve a good accuracy in automatically extracting relevant aspects and opinions from texts. We then use this wealth of data to make quality recommendations.
Demographic dynamics and population flows:
Personnalisez votre boutique en ligne avec des recommandations personnalisées

Télécharger GRATUITEMENT
Loïc Baboulaz, Alexandre Catsicas, Julien Lalande, Mathieu Rudelle
360° to 3D

www.imverse.ch
Mirrakoi

Daniel Schmitter, Zsuzsanna Püspöki, Pablo Garcia-Amorena

About some Innogrants CAD Design
Digitalization of clinical trials
Neural Concept

Deep-Learning Enhanced Engineering

www.neuralconcept.com
Warp Coding

Rapidoid

Intelligent web platform for rapid, model-driven development

Fragile code

Technical complexity

DIY Security
INTERNET AND SOFTWARE

ELECTRONICS

OTHER HARDWARE (ROBOTICS, MECHANICS, SENSORS)

ENERGY & ENVIRONMENT

MEDICAL DEVICES & BIOTECHNOLOGY
Foldaway Haptics

www.foldaway-haptics.ch
3seNs – Vacuum Pressure Gauge on a Chip

State-of-the-art

Cold cathode

Bayard-Alpert

Our solution

Semiconductor

NEW!
Wearable sensing

With Feeltronix technology, sensors become imperceptible and can be worn for extended periods. Soft robotic bodies can also benefit from highly compliant integrated sensing systems.
Micro-Display Technologies
Edge-Lighting Devices

Light shaping by nano-structured waveguides

...as thin as a human hair

Cadmium free
Mercury free
20 µm

for energy efficient distributed illumination

About some Innogrants Electronics
A New Computer Interface

L’ordinateur sans clavier ni souris est suisse

The Museum of Modern Art, New York
Spads – 3D Imaging

depth imaging

SPAD  CMOS  Time-of-Flight
Vizir

Martijn Bosch & Adrien Bierbaumer
Predictive maintenance in harsh environments?

Optical fiber sensors + smart analytics
Xsensio

CUTTING EDGE TECHNOLOGY
LOW POWER WIRELESS SENSING AND ENERGY HARVESTING
Nanophotonics Spectroscopy

Samuel Sonderegger
Jean Berney
Lasers & Diodes Materials
New Chip Architecture

Win a 10-day entrepreneurship training in Boston

About some Innogrants

Electronics

EPFL Innogrants | 2019
Automated Chip Design

Jason Brown
INTERNET AND SOFTWARE
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OTHER HARDWARE (ROBOTICS, MECHANICS, SENSORS)
ENERGY & ENVIRONMENT
MEDICAL DEVICES & BIOTECHNOLOGY
3D Metal Printing

3D LSP multilayered device

Patented by EPFL

3D LSP multilayered device
A New 3D Printer

Damien Loterie, Paul Delrot
New Vehicle

Robots to preserve life

Every day heroes are risking their lives to help others getting safe. These are firefighters and rescuers operating in natural or industrial disasters. But no one should ever be exposed to hazardous environments.

This simple and natural statement is the root of rovenso’s motivation to build robots than can take care of dangerous tasks when the job needs to get done. Earthquakes, landslides, hurricanes, fires or explosions create complex environments which are usually cluttered with rubbles and sometimes contaminated with chemicals or radiations. Manipulating or moving heavy stuff under these conditions is dangerous for humans but is also extremely challenging for automated systems.

Tomorrow, fully autonomous robots will handle these hazardous tasks for us.

http://www.rovenso.com
Photonics via Moulding

- Healthy
- Innovative
- Personalized

Photonic™ chocolate
- A colourful technology to taste

Photonic™ plastic
- Colours without additives
  - Additive-free
  - On 3D surfaces
  - Mouldable articles

Auzelyte Vaida & Xie Shenqi
Anti-Counterfeiting for Watches
Evaluation Kit

The Quantitative Energy Wobbe Index Measurement System (WIMS) can accurately measure the energy content of any Natural Gas or Biogas.

Variations in the energy content of a gas (the Wobbe Index) can lead to a mismatch in the air fuel ratio. This is the main cause of poor performance in terms of ignition, efficiency, emissions, reliability and safety of any appliance that uses the gas.

Our instrument is compact enough to be installed in most gas appliances where it can measure the Wobbe Index before the gas is burnt allowing the air fuel ratio to be adjusted correctly.
Terahertz Transmission

**New sources**
- from 300 kg to less than 1 kg
- from 500k CHF to 50k CHF
- but, from 100 W to 1mW (!)

Nowadays while several options can be found for sources and detectors... key point: there’s a lack of technical solution for efficient wave-guiding (!)

This is where SWISSto12 wants to play a major role
Swiss Sonic Production

Csaba Laurenczy

About some Innogrants

Software
INTERNET AND SOFTWARE
ELECTRONICS
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ENERGY & ENVIRONMENT
MEDICAL DEVICES & BIOTECHNOLOGY
2 Birds & 1 Stone – CO2 Transformation

Energy production

Cyclic carbonate production

Cyclic carbonate production @ Biogas upgrading site

PARADIGM SHIFT
Figure 1: (left) Single and multi-effect modules, and (right) Multi-effect modules with internally integrated heat recovery devices.
Microbe cement. Ready to use.
Currently, we use up about 40% of world energy in building, in its construction and operations. We are dedicated to developing special additive for sustainable construction and economics. Secondly, we are combining nanotechnology to use the waste materials to bring down the energy demand in building operations such as heating and cooling. Also, with some materials we are developing, we would like to make energy conversion and storage as an integral part of the building, rather being just a mechanical structural unit. We would like to make construction itself more automated to reduce human involvement.
Energy Storage via Air Compression

Clean Energy...
From time to time

Clean Conversion & Storage
Based on Compressed Air

Clean Energy...
All the time

- Sunny or Windy times:  
  STORAGE = Air Compression

- Sunless & Windless times:  
  DISCHARGE = Air Expansion

Sylvain Lemofouet
Energy Generation & Osmosis

Energy Consumption

- Energy for cooling: 28%
- Power: 70%

Waste Heat

OsmoTech

Patented Technology

Sponsors:
- helbling
- Repsol
- Fundación Repsol
- Gebert Rüf Stiftung
Upcoming changes in the electricity production structure

**Future situation**: better grid quality and stability is achieved through the use of power converters and appropriate control strategies (smart-grid approach)
Daphne Technology

Marine Air Pollution Control Opportunity
DISRUPTIVE INNOVATION IN OPTICS FOR SOLAR ENERGY
Thinkee

About some Innogrants Electronics

Nastaran Asadi Zanjani, Johann Bigler
& Jean-Charles Fosse
GRZ Technologies

About some Innogrants Energy

Claudio Ruch & Noris Gallandat
INTERNET AND SOFTWARE
ELECTRONICS
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MEDICAL DEVICES & BIOTECHNOLOGY
Microelectrodes for Neuro-Diseases

A size comparison between an existing lead and Aleva's technology.
Tools for Neurosurgery

Rémi Charrier
Mechanical Robot for Surgery
Haptic Robot for Surgeries

About some Innogrants

Szymon Kostrzewski
Philippe Bérard

Acquired by
Helping paraplegic patients walk again
Intento

Movement controller (knob)

Allows all patients to benefit from CIMT
SensArs Neuroprosthetics

Amputee Feels in Real-Time with Bionic Hand

05.02.14 - Dennis Aabo Sørensen is the first amputee in the world to feel sensory rich information – in realtime – with a prosthetic hand wired to nerves in his upper arm. Sørensen could grasp objects intuitively and identify what he was touching while blindfolded.

About some Innogrants Medtech
Remote Cardiac Monitoring
EEG Buds

Neurological Disorders
A global disease burden

50 million people suffer from epilepsy
62 million people suffer from cerebrovascular disease
326 million people suffer from migraine
244 million people suffer from Alzheimer disease and other dementias.
Leonardo DiCaprio Invests in Emotion-Capture Startup MindMaze

Switzerland-based human-computing interfaces startup MindMaze has attracted an investment from none other than Leonardo DiCaprio, who is also joining the company’s board of advisors. The investment is being made as part of a new round of funding that hasn’t closed, and the amount of money DiCaprio is investing wasn’t revealed as part of the announcement.
Medical Imaging System

Alexandre Serov

FluxEXPLORER™
Microvascular imaging

before occlusion  during occlusion  after occlusion

Laser Doppler Perfusion
LOW  HIGH
Medical Imaging System

Visualizing Microcirculation

Acquired by

NOVADAQ

About some Innogrants | Medtech
Active Wearables

Temperature

Force

Vibration

About some Innogrants

Medtech
Optics for Endoscopy

Davor Kosanic
EPFL, Laboratory of Physical Chemistry of Polymers and Membranes

Bastien Rachet
Davor Kosanic
Super-Resolution Microscopy

Angular beam scanning holographic microscopy

Viventis Microscopy

Low phototoxicity,
fast multi-position imaging, easy sample mounting

In vivo model systems

brain
retina
intestinal

In vitro models (organoids)

www.viventis-microscopy.com
EmbryoSpin

Embryo morphology

Fertilization

Microscopy

Embryo endogenous chemistry

NMR

Future Selection

Qualitative inspection

Quantitative spectroscopy

Embryo Spin probes

About some Innogrants Medtech
Highly Sensitive Microscopy

GoBeyond: a groundbreaking tool for fluorescence-based analyses
Microfluidics & Allergies

Nicolas Durand
Fig. 1. Design of the Microfluidic Tissue Processor

Fig. 2. Photographs of the device and the assembled system.
Lumendo (fka Lumigbo)

Andreas Schmocker
Azadeh Khoushabi
Oriane Poupard
Retina Imaging

Pathology
- AMD
- Diabetic retinopathy
- Glaucoma

Early microscopic symptoms:
- Cell density decrease
- Neovascularity

Macrosopic symptoms
- Pressure
- Bleeding
- Oedema
- Impact on vision

Better treatment
New drugs
Monitoring
VascuSafe

1. Femoral artery

2. VascuSAFE cerebral artery vasospasm

3. VascuSAFE

4. Spasm released
mano

Artificial Tendon

Luca Randazzo
NeuralSoft

Nicolas Vachicouras, Ludovic Serex, Florian Fallegger
Biosemic

New screening diagnostic tools based on micro engineering used to develop personalized healthcare.
**OncoEffective**

**Impedance-driven cancer medicine**

- **Cancer patient** → **Biopsy** → **Tumor fragments** → **Direct transfer to wells** → **1 day drug-perfusion** → **On-line electric measurements** → **Bio-impedance Z** → **Time**

- **Personalized therapy** → **Electric measurements drive therapy design**
Handheld optical reader for diagnostic test strips
Dispencell

Georges Muller & David Bonzon

About some Innogrants

Medtech
Cell Culture Platform

Sylke Hoehnel & Nathalie Bradenberg
Cellphmed

Personalized medicine

Marc Friedli

About some Innegrants | Medtech
Volumina

About some Innogrants

Medtech

Amélie Beduer & Thomas Braschler
Cell Culture Dish Technology
Notch Inhibitors for Cancer Therapy

Cancer cells need Notch signaling to proliferate and metastasize

- T-ALL
- Breast Cancer
- GSI are currently used in clinical phase!
- Colorectal Cancer?
- Prostate Cancer
- Glioblastoma
- Medulloblastoma
- Tumor Angiogenesis
Notch Enhancers

About some Innogrants  

Viktoria Reinmüller
We sell a **bioactive** animal feed supplement for **sustainable, ecofriendly, respectful** animal farming, as well as expert consultancy for ad-hoc product formulations.
FXII Inhibitor

Coagulation Cascade

Intrinsic Pathway
(surface contact)

Extrinsic Pathway
(tissue factor)

Heparin (LMWH)

Hirudin/Hirulog

Thrombin (IIa)

Thrombin-Fibrin Clot

aPTT

PT

Christian Heinis, Andres McAllister
ADC Imaging

Firefly + Luciferase enzyme + Luciferin → Light production

About some Innogrants

Biotech
Microbiome Diagnostics

Stool Sample → Extracted DNA → Quantitative profile
Prediva

Artificial Intelligence technology to provide personalized insights into chronic disease progression and management of patient's health.
Personalized recommendation for cardiovascular treatment planning and to reduce the disease progression.
Bionomous

http://bionomous.ch/