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
**EPFL Today**

**Overview**

Some numbers

**Campus (2017)**

- 10,866 students, of whom 2,142 PhD students
- 343 faculty
- 3,854 staff (scientific & technical)

**Spending (2017)**

- CHF 632M from State budget
- CHF 317M other funding (EU, SNSF, private...)
- Total: CHF 949M
Early and Continuous Commitment of EPFL

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
VPI - A FACILITATOR BETWEEN TWO WORLDS

VPR

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

VPE

Bachelors / Masters

VPI

Strategic Partnerships
Innovation Park

Alliance - relationships / collaborations with SMEs
Entrepreneurship
Innogrants xgrants

CORPORATES
SMEs
START-UPS

EPFL Community
(Professors, Researchers, Students)

vpi.epfl.ch
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
Prototype Founders
Product Development
Company Fast Growth (Revenues, Employees)

Start-Up foundation

“Valley of Death”

A rich ecosystem
More than funding

A to D
B to C
D to E
E to J

Research

Exposure

Housing

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

A to D
B to C
D to E
E to J

A rich ecosystem
More than funding
A Rich Ecosystem

An exhaustive description is available online

http://short.epfl.ch/ecosystem

https://vpi.epfl.ch/resources-for-startups
CLOSE SUPPORT: THE EPFL INNOVATION PARK

- The Innovation Park: 13 buildings for companies partnering & collaborating with EPFL
  http://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
"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
- Jun 04: Loan of CHF100k
- Déc. 04: Winner of the “startup competition”
- Avril-Sept 04: Further coaching
- Sept 04: foundation of NEXThink SA
- Dec 04: contacts with VCs
- Apr 06: 1st round CHF 1.6M
- Jul. 07: 2nd round CHF 6M
- Jan 05: 1st pilots with customers

As of 2017, more than 65M 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 [https://vpi.epfl.ch/EPFL_Spin-offs](https://vpi.epfl.ch/EPFL_Spin-offs)
# 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</td>
<td>CHF 65M</td>
</tr>
<tr>
<td>Amazentis</td>
<td>2007</td>
<td>Waypoint, H. Wyss, P. Landolt, A. Hoffmann</td>
<td></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</td>
<td>CHF 25M</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>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>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 5M</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</td>
<td>CHF 4M</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>AB2 Bio</td>
<td>2010</td>
<td>CHF 41M</td>
<td></td>
</tr>
<tr>
<td>Sophia Genetics</td>
<td>2011</td>
<td>CHF 58M</td>
<td></td>
</tr>
<tr>
<td>Leman Micro Devices</td>
<td>2012</td>
<td>Undisclosed</td>
<td></td>
</tr>
<tr>
<td>Ascenneuron</td>
<td>2012</td>
<td>CHF 36M</td>
<td></td>
</tr>
<tr>
<td>Corpacademy</td>
<td>2013</td>
<td>CHF 14M</td>
<td></td>
</tr>
</tbody>
</table>
**High-Growth Start-ups**

- More than CHF1.2B 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
- SenseFly
  - a Parrot company

- Pix4D

- Jilion

- Intel
- Parrot

- AIMago
- Bugbuster
- Sensima Technology sa

- NOVADAQ
- AppDynamics
- MPS

- Daily Motion

- FaceShift
  - Undisclosed acquirer rumored to be Apple

- Acquired by
- Acquired by
- Acquired by
- Acquired by

- Bought by Cisco for $3.5B in Jan. 2017
EPFL Spin-off 2017 Exits

Acquired by

Acquired by

Now Part of MindMaze

Acquired by

Acquired by

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

- Fund raising: CHF1.2B overall
- Job creation: about 2’000 today in 200 firms
- Migrants: from 25% in the 90’s to 70% today

http://short.epfl.ch/startup-report
INNOVATION AND TECH. TRANSFER
THE INNOGRANTS
ROLE MODELS
ABOUT SOME INNOGRANTS

AGENDA
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://vpi.epfl.ch/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

Une première en Europe. Seul le MIT aux États-Unis possède une politique similaire.

L’école polytechnique fédérale de Lausanne (EPFL) vient de créer un fonds dédié à des projets liés aux nouvelles technologies et ayant un fort potentiel commercial. Ce capital d’avance a pour objectif d’encourager et d’accompagner les étudiants, les chercheurs et les entreprises dans les étapes finales du développement des projets.

Le fonds de 3 millions de francs, géré par l’équipe de Jean-François Moussiaux, vice-président de l’EPFL et de la Direction de la recherche, s’adresse à des projets innovants portés par des équipes composées d’étudiants, de chercheurs et d’entreprises.

Cette initiative, qui suit la création d’autres fonds similaires dans d’autres universités, est un exemple de l’engagement de l’EPFL dans la recherche et l’innovation.

Innogrants in the media
**Facts & Figures**

- About 780 requests
- 118 grants (CHF11.2M)
- 75 companies created
- CHF 33M in new grants
- CHF 320M in equity
- 8 exits (M&As)

**Innogrant origin**
- Switzerland: 23%
- Western Europe: 41%
- Eastern Europe: 17%
- Out of Europe: 19%

**College Contacts & Grants**

<table>
<thead>
<tr>
<th>College</th>
<th>Contacts</th>
<th>%</th>
<th>Grants</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>STI</td>
<td>203.5</td>
<td>26%</td>
<td>47.5</td>
<td>40%</td>
</tr>
<tr>
<td>IC</td>
<td>117.5</td>
<td>15%</td>
<td>29.5</td>
<td>25%</td>
</tr>
<tr>
<td>SB</td>
<td>73.5</td>
<td>9%</td>
<td>14.5</td>
<td>12%</td>
</tr>
<tr>
<td>SV</td>
<td>54</td>
<td>7%</td>
<td>12.5</td>
<td>11%</td>
</tr>
<tr>
<td>ENAC</td>
<td>33.5</td>
<td>4%</td>
<td>2</td>
<td>2%</td>
</tr>
<tr>
<td>CDM/CDH</td>
<td>21.5</td>
<td>3%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students</td>
<td>82</td>
<td>10%</td>
<td>4</td>
<td>3%</td>
</tr>
<tr>
<td>External</td>
<td>195.5</td>
<td>25%</td>
<td>8</td>
<td>7%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>781</strong></td>
<td></td>
<td><strong>118</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)
**The SNF Spin Funds**

Similar to the Innograts 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

http://www.nccr-robotics.ch/tech-transfer/startups/spinfund

Established in July 2013
4 projects
A Bet on People

with the support of

Young entrepreneurs
All EPFL start-ups on https://vpi.epfl.ch/EPFL_Spin-offs
INNOVATION AND TECH. TRANSFER
THE INNOGRANTS
ROLE MODELS
ABOUT SOME INNOGRANTS
“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

I T S A L S O A B O U T  R O L E  M O D E L S
IT’S ALSO ABOUT ROLE MODELS
venture ideas @ EPFL
Swiss ways of building start-ups
Thursday, April 21st, 2011
from 13:45 to 16:30 (door opening 13:15)
Rolex Learning Center, Forum, EPFL

Mandatory registration: www.venturelab.ch (venture ideas)
ventura ideas | discover entrepreneurship

ventura ideas @ EPFL
Global start-ups from Swiss founders
Tuesday, November 13, 2012
from 12:00 to 14:00
Room Pluton, Science Park PSE-D, EPFL

“From EPFL to the Valley”
Meet a global entrepreneur
and get an insight on how to
build a successful business
20th September Room BC420
12:00 to 14:00 EPFL

Alexandre Gonthier
CEO of PayWithMyBank
CEO of eWise

Free event
Register now venturlab.ch
Free lunch

ventura ideas | discover entrepreneurship

ventura ideas @ EPFL
Swiss ways of building start-ups
Tuesday, April 30th, 2013
from 14:00 to 18:00 (doors open 13:30)
Rolex Learning Center Forum, EPFL

ventura ideas | discover entrepreneurship

ventura ideas @ EPFL
Swiss Start-ups exits: Can we get more?
Wednesday, April 16th, 2014
from 14:00 to 17:00 (doors open 13:30)
Rolex Learning Center Forum, EPFL

Registration is mandatory
Register for free on www.venturlab.ch

ventura ideas | discover entrepreneurship

ventura ideas @ EPFL
The multiple faces of entrepreneurship
Tuesday, November 12th, 2013
From 18:00 to 21:00
EPFL Rolex Learning Center.

https://vpi.epfl.ch/startup_champions

EPFL Innogrants | 2018
venture ideas @ EPFL
“R&D, internal entrepreneurship?”

Thursday, November 6th, 2014
from 12:00 to 14:00, Room BC420, EPFL

Mandatory registration: www.vpi.epfl.ch

How to build a Billion dollar Company

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

venture lab

https://vpi.epfl.ch/startup_champions
Trying

http://lausanne.startupweekend.org
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
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>
</tr>
</thead>
<tbody>
<tr>
<td>Mimosys</td>
<td>Processor Architecture Laboratory (IC/LAP)</td>
<td>Paolo Ienne / Jason Brown</td>
</tr>
<tr>
<td>Production of proteins</td>
<td>Cellular Biotechnology Laboratory (External &amp; SV/LBTC)</td>
<td>Peter Bromley / Florian Wurm</td>
</tr>
<tr>
<td>Cytomec</td>
<td>Orthopaedic Research Division (STI)</td>
<td>Tom Quinn</td>
</tr>
<tr>
<td>DAAV technogies</td>
<td>Distributed Information Systems Laboratory (IC/LSIR)</td>
<td>Jie Wu</td>
</tr>
<tr>
<td>Opt.im</td>
<td>Artificial Intelligence Laboratory (IC/LIA)</td>
<td>Ion Constantinescu</td>
</tr>
<tr>
<td>Cooling techniques of microprocessors</td>
<td>Heat and Mass Transfer Laboratory (STI/LTCM)</td>
<td>James DeRose</td>
</tr>
<tr>
<td>Anokion</td>
<td>Merck Serono Chair in Drug Delivery (SV/LMRP)</td>
<td>Jeff Hubbell</td>
</tr>
</tbody>
</table>

![Mimosys Logo](image1)
![DAAV Technologies Logo](image2)
![Cytomec Logo](image3)
![Optim Logo](image4)
![Anokion Logo](image5)
<table>
<thead>
<tr>
<th>PROJECT</th>
<th>LABORATORY (SCHOOL)</th>
<th>PEOPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fastree 3D</td>
<td>Processor Architecture Laboratory (IC/LAP)</td>
<td>Cristiano Niclass</td>
</tr>
<tr>
<td>Medical Imaging System</td>
<td>Biomedical Optics Laboratory (STI/LOB)</td>
<td>Alexandre Serov</td>
</tr>
<tr>
<td>Biocomposites</td>
<td>Laboratory of Composite and Polymer Technology (STI/LTC)</td>
<td>Laurence Mathieu</td>
</tr>
<tr>
<td>Molecule Modelisation</td>
<td>Processor Architecture Laboratory (External &amp; IC/LAP)</td>
<td>Payal Kapor</td>
</tr>
<tr>
<td>Attolight</td>
<td>Laboratory of Quantum Optoelectronics (SB/LOEQ)</td>
<td>Samuel Sonderreger</td>
</tr>
<tr>
<td>Jilion</td>
<td>Algorithmics Laboratory (IC/ALGO)</td>
<td>Zeno Crivelli</td>
</tr>
<tr>
<td>Inocs</td>
<td>Integrated Systems Laboratory(STI/IC)</td>
<td>Srinivasan Murali</td>
</tr>
<tr>
<td>RouteRANK</td>
<td>Laboratory for Computer Communications and Applications (IC/LSA2)</td>
<td>Jochen Mundinger</td>
</tr>
</tbody>
</table>
## Innogrants - 2007

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>LABORATORY (SCHOOL)</th>
<th>PEOPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prediggo</td>
<td>Artificial Intelligence Laboratory (IC/LIA)</td>
<td>Vincent Schickel</td>
</tr>
<tr>
<td>Enairys</td>
<td>Industrial Electronics Laboratory (STI/LEI)</td>
<td>Sylvain Lemofouet</td>
</tr>
<tr>
<td>Gliapharm</td>
<td>Laboratory of Neuroenergetics and Cellular Dynamics (SV/LNDC)</td>
<td>Luc Pélerin</td>
</tr>
<tr>
<td>Optimax (logistics and the internet)</td>
<td>Artificial Intelligence Laboratory (IC/LIA)</td>
<td>Adrian Petcu</td>
</tr>
<tr>
<td>Gaiasens</td>
<td>Environmental Fluid Mechanics Laboratory (ENAC/EFLUM)</td>
<td>Olivier Couach</td>
</tr>
<tr>
<td>Lemoptix</td>
<td>Microsystems Laboratory (STI/LMIS4)</td>
<td>Nicolas Abele</td>
</tr>
<tr>
<td>Stereotools</td>
<td>Signal Processing Laboratory 5 (STI/LTS5)</td>
<td>Jean-Philippe Thiran</td>
</tr>
</tbody>
</table>
## Innogrants - 2008

<table>
<thead>
<tr>
<th>Project</th>
<th>Laboratory (School)</th>
<th>People</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB4all</td>
<td>Database Laboratory (IC/LBD)</td>
<td>David Portabella</td>
</tr>
<tr>
<td>Social Web Browsing</td>
<td>Operating Systems Laboratory (IC/LABOS)</td>
<td>Rodrigo Schmidt</td>
</tr>
<tr>
<td>Novagan</td>
<td>Laboratory of Advanced Semiconductors for Photonics and Electronics (SB/LASPE)</td>
<td>Eric Feltin</td>
</tr>
<tr>
<td>ExCellness</td>
<td>Laboratory of Cell Biophysics (SB/LCB)</td>
<td>Pierre-Jean Wipff</td>
</tr>
<tr>
<td>Aïmago</td>
<td>Laboratory of Biomedical Optics (STI/LOB)</td>
<td>Michael Friedrich</td>
</tr>
<tr>
<td>Aleva Neurotherapeutics</td>
<td>Microsystems Laboratory (STI/LMIS4)</td>
<td>Andre Mercanzini</td>
</tr>
<tr>
<td>Antispam and filtering methods</td>
<td>Laboratory for Computer Communications and Applications (IC/LSA2)</td>
<td>Slavisa Sarafijanovic</td>
</tr>
<tr>
<td>Madeinlocal</td>
<td>Institute of Core Computing Science (IC/CGC)</td>
<td>Manuel Acevedo</td>
</tr>
</tbody>
</table>
## Innogrants - 2009

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>LABORATORY (SCHOOL)</th>
<th>PEOPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minsh</td>
<td>Distributed Systems Laboratory (IC/LSR)</td>
<td>Barbara Yersin / Jonathan Maim</td>
</tr>
<tr>
<td>Ozwe</td>
<td>Pedagogical Research and Support (CRAFT)</td>
<td>Frédéric Kaplan</td>
</tr>
<tr>
<td>Wippso</td>
<td>Institute of Electrical Engineering (STI/IEL)</td>
<td>Marco Mattavelli</td>
</tr>
<tr>
<td>Anti-tumour Agents</td>
<td>Laboratory of Glycochemistry and Asymmetric Synthesis (SB/LGSA)</td>
<td>Claudia Bello</td>
</tr>
<tr>
<td>Imina</td>
<td>Robotic Systems Laboratory 2 (STI/LSRO2)</td>
<td>Guillaume Boetsch / Benoît Dagon / Christophe Canales</td>
</tr>
</tbody>
</table>
# Innogrants - 2010

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>LABORATORY (FACULTY)</th>
<th>PEOPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GoldenMMA</td>
<td>Microsystems Laboratory 1 (STI/LMIS1)</td>
<td>Bastien Rachet</td>
</tr>
<tr>
<td>Lake Mind Cloud Management</td>
<td>Operating Systems Laboratory (IC/LABOS)</td>
<td>Jean-Philippe Martin Flatin</td>
</tr>
<tr>
<td>Abionic</td>
<td>Microsystems Laboratory 4 (STI/LMIS4)</td>
<td>Nicolas Durand</td>
</tr>
<tr>
<td>Samantree</td>
<td>Laboratory of Physical Chemistry of Polymers and Membranes (SB/LCPPM)</td>
<td>Davor Kosanic</td>
</tr>
<tr>
<td>BugBuster</td>
<td>Operating Systems Laboratory (IC/LABOS)</td>
<td>Olivier Crameri / John Renault</td>
</tr>
<tr>
<td>PROJECT</td>
<td>LABORATORY (FACULTY)</td>
<td>PEOPLE</td>
</tr>
<tr>
<td>------------------------------</td>
<td>---------------------------------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>Mindmaze</td>
<td>Laboratory of Cognitive Neuroscience (SV/LNCO)</td>
<td>Tej Tadi</td>
</tr>
<tr>
<td>Therapeutics for ALS</td>
<td>Polymers Laboratory (STI/LP)</td>
<td>Harm-Anton Klok</td>
</tr>
<tr>
<td>L.E.S.S. - Nanofiber illuminator</td>
<td>STI Scientists Group(STI/GR-STI)</td>
<td>Yann Tissot &amp; Simon Rivier</td>
</tr>
<tr>
<td>Swiss to 12</td>
<td>Laboratory of the Physics of Nanostructured Materials(SB/LPMN)</td>
<td>Alessandro Macor &amp; Emile de Rijk</td>
</tr>
<tr>
<td>KB Medical</td>
<td>Robotic Systems Laboratory 2 (STI/LSRO2)</td>
<td>Philippe Bérard &amp; Szymon Kostrzewski</td>
</tr>
<tr>
<td>Azbooka</td>
<td>Ceramics Laboratory (STI/LC)</td>
<td>Evgeny Miljutin</td>
</tr>
</tbody>
</table>
## Innogrants - 2012

<table>
<thead>
<tr>
<th>Project</th>
<th>Laboratory (Faculty)</th>
<th>People</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distalmotion</td>
<td>Robotic Systems Laboratory 1 (STI/LSRO1)</td>
<td>Ricardo Beira</td>
</tr>
<tr>
<td>Cellestia Biotech</td>
<td>Prof. Radtke’s Unit (SV/UPRAD)</td>
<td>Rajwinder Lehal</td>
</tr>
<tr>
<td>Osmoblue</td>
<td>Microsystems Laboratory 4 (STI/LMIS4)</td>
<td>Elodie Dahan</td>
</tr>
<tr>
<td>Faceshift</td>
<td>Computer Graphics and Geometry Laboratory (IC/LGG)</td>
<td>Thibaut Weise</td>
</tr>
<tr>
<td>Nanolive - super-resolution microscopy</td>
<td>Group Depeursinge (STI/GR)</td>
<td>Yann Cotte</td>
</tr>
<tr>
<td>Morphotonix</td>
<td>Microsystems Laboratory 1 (STI/LMIS1)</td>
<td>Shenqi Xie &amp; Vaida Auzelyte</td>
</tr>
<tr>
<td>Nanoga- DNA Watch</td>
<td>Laboratory of Advanced Semiconductors for Photonics and Electronics (SB/LASPE)</td>
<td>Nasser Hefyene</td>
</tr>
<tr>
<td>SmartCardia</td>
<td>Embedded Systems Lab. (STI/ESL)</td>
<td>Srini Murali</td>
</tr>
<tr>
<td>Shoelace Wireless</td>
<td>Laboratory of Algorithmic Research on Networked Information (IC/ARNI)</td>
<td>Lorenzo Keller</td>
</tr>
</tbody>
</table>
## Innogrants - 2013

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>LABORATORY (FACULTY)</th>
<th>PEOPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Playfulvision</td>
<td>Computer Vision Laboratory (IC/CVLAB)</td>
<td>Horesh Ben Shitrit</td>
</tr>
<tr>
<td>Makur</td>
<td>L'IDIAP Laboratory (STI/LIDIAP)</td>
<td>Joan Isaac Biel</td>
</tr>
<tr>
<td>Lunaphore</td>
<td>Microsystems Laboratory 2 (STI/LMIS2)</td>
<td>Ata Tuna Ciftlik</td>
</tr>
<tr>
<td>Imperix</td>
<td>Industrial Electronics Laboratory (STI/LEI)</td>
<td>Simon Delalay &amp; Nicolas</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cherix</td>
</tr>
<tr>
<td>CodeTickler / Cyberhaven</td>
<td>Dependable Systems Lab (IC/DSDLAB)</td>
<td>Cristian Zamfir</td>
</tr>
<tr>
<td>G-Therapeutics</td>
<td>Brain &amp; Mind Institute (SV/BMI)</td>
<td>Vincent Delattre</td>
</tr>
<tr>
<td>Bright Sensors</td>
<td>Microtechnics Production Lab. (STI/LPM)</td>
<td>Gael Farine &amp; Conor Slater</td>
</tr>
<tr>
<td>Rovenso</td>
<td>Biorobotics Laboratory (STI/BIOROB)</td>
<td>Thomas Estier</td>
</tr>
<tr>
<td>Anemomind</td>
<td>Computer Vision Laboratory (IC/CVLAB)</td>
<td>Julien Pilet</td>
</tr>
<tr>
<td>Oncoeffective</td>
<td>Microsystems Laboratory 4 (STI/LMIS4)</td>
<td>Robert Meissner</td>
</tr>
</tbody>
</table>
## Innogrants - 2014

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

**About some Innogrants 2014**
## Innogrants - 2015

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>LABORATORY (FACULTY)</th>
<th>PEOPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twenty Green</td>
<td>Electronics and Signal Processing Laboratory (STI/ESPLAB)</td>
<td>Mario Zaiss &amp; Duncan Sutherland</td>
</tr>
<tr>
<td>Kido Dynamics (fka Sthar)</td>
<td>Laboratory of Theoretical Physical Chemistry (SB/LCPT)</td>
<td>Alberto Hernando de Castro, Miroslav Sluc, Marius Wehrle &amp; Eduardo Zambrano</td>
</tr>
<tr>
<td>Swiss Sonic Production</td>
<td>Laboratory of Microengineering for Manufacturing (STI/LPM)</td>
<td>Csaba Laurenczy</td>
</tr>
<tr>
<td>Notch Enhancers</td>
<td>Laboratory of Synthesis and Natural Products (SB/LSPN) &amp; Radtke Group (SV/UPRAD)</td>
<td>Viktoria Reinmüller</td>
</tr>
<tr>
<td>Volumina</td>
<td>Microsystems Laboratory 4 (STI/LMIS4)</td>
<td>Amélie Béduer &amp; Thomas Braschler</td>
</tr>
<tr>
<td>Cellphmed</td>
<td>Laboratory of Virology and Genetics (SV/LVG)</td>
<td>Marc Friedli</td>
</tr>
<tr>
<td>Technis</td>
<td>Microsystems Laboratory 4 (STI/LMIS4)</td>
<td>Naïk Londono, Martin Hofmann &amp; Wiktor Bourée</td>
</tr>
<tr>
<td>TasteHit</td>
<td>Unit of prof. Salathé (SV/UPSALATHE)</td>
<td>Alexei Kounine &amp; Christopher Burger</td>
</tr>
<tr>
<td>ArtMYN</td>
<td>Audiovisual Communications Lab (IC/LCAV)</td>
<td>Loïc Baboulaz, Alexandre Catsicas, Julien Lalande, Mathieu Rudelle</td>
</tr>
<tr>
<td>Daphne</td>
<td>Swiss Plasma Center (SB/SPC)</td>
<td>Mario Michan</td>
</tr>
<tr>
<td>Insolight</td>
<td>Laboratory of Applied Photonics Devices (STI/LAPD)</td>
<td>Laurent Coulot, Mathieu Ackerman, Florian Gerlich</td>
</tr>
</tbody>
</table>
# Innogrants – 2016

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>LABORATORY (FACULTY)</th>
<th>PEOPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FXII Inhibitor</td>
<td>Laboratory of Therapeutic Proteins and Peptides (SB/LPPT)</td>
<td>Christian Heinis, Andres McAllister</td>
</tr>
<tr>
<td>Active Wearables</td>
<td>Robotic Systems Laboratory (STI/LSRO)</td>
<td>Simon Gallo, Giulio Rognini</td>
</tr>
<tr>
<td>Chef’s Road</td>
<td>Operating Systems Laboratory (IC/LABOS)</td>
<td>Youssef El Houti, Abdelkoudouss Badou</td>
</tr>
<tr>
<td>Vizir</td>
<td>Image and Visual Representation Laboratory (IC/IVRL)</td>
<td>Martijn Bosch &amp; Adrien Bierbaumer</td>
</tr>
<tr>
<td>Dispencell</td>
<td>Stem Cell Dynamics Laboratory (SV/LDCS)</td>
<td>Georges Muller &amp; David Bonzon</td>
</tr>
<tr>
<td>Thinkee</td>
<td>Group Kayal (STI/GR_KA)</td>
<td>Nastaran Asadi Zanjani, Johann Bigler &amp; Jean-Charles Fosse</td>
</tr>
<tr>
<td>Lironix</td>
<td>Laboratory of Macromolecular and Organic Materials (STI/LMOM)</td>
<td>Giuseppe Sforazzini</td>
</tr>
<tr>
<td>MiraEx</td>
<td>Group Villanueva (STI/GR_LVT)</td>
<td>Clément Javerzac-Galy &amp; Nicolas Piro</td>
</tr>
<tr>
<td>TWIICE</td>
<td>Laboratoire de Systèmes Robotiques (STI/LSRO)</td>
<td>Marek Jancik &amp; Tristan Vouga</td>
</tr>
<tr>
<td>EEG buds</td>
<td>Defitech foundation chair in Brain-Machine interface (STI/CNBI)</td>
<td>Naik Londono</td>
</tr>
<tr>
<td>Lumigbo</td>
<td>Laboratory of Biomedical Orthopedics (STI/LBO)</td>
<td>Andreas Schmocker, Azadeh Khoushabi</td>
</tr>
<tr>
<td>GRZ Technologies</td>
<td>Laboratory of Materials for Renewable Energy (SB/LMER)</td>
<td>Noris Gallandat, Claudio Ruch</td>
</tr>
</tbody>
</table>
### Innogrants – 2017

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>LABORATORY (FACULTY)</th>
<th>PEOPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creal3d</td>
<td>Optics &amp; Photonics Technology Laboratory (STI/OPT)</td>
<td>Vincent Gajdosik, Tomas Sluka</td>
</tr>
<tr>
<td>Nanogence</td>
<td>Powder Technology Laboratory (STI/LTP)</td>
<td>Abhishek Kumar</td>
</tr>
<tr>
<td>Viventis Microscopy</td>
<td>Prof. Oates Group (SV/UPOATES)</td>
<td>Petr Strnad, Andrea Boni</td>
</tr>
<tr>
<td>Imverse</td>
<td>Foundation Bertarelli Chair in Cognitive Neuroprosthetics (SV/LNCO)</td>
<td>Javier Bello Ruiz, Robin Mange</td>
</tr>
<tr>
<td>ADC Imaging</td>
<td>Laboratory of Bioorganic Chemistry and Molecular Imaging (SB/LCBIM)</td>
<td>Aleksey Yevtodiyenko &amp; Elena Dubikovskaya</td>
</tr>
<tr>
<td>Microbiome Diagnostics</td>
<td>Chair of Applied Statistics (SB/STAP)</td>
<td>Paulo Refinetti</td>
</tr>
<tr>
<td>Mirraccle</td>
<td>Biomedical Imaging Laboratory (STI/LIB)</td>
<td>Daniel Schmitter, Zsuzsanna Püspöki, Pablo Garcia-Amorena</td>
</tr>
<tr>
<td>Feeltronix</td>
<td>Foundation Bertarelli Chair in Neuroprosthetic Technology (STI/LSBI)</td>
<td>Arthur Edouard Hirsch, Aaron Gerratt, Hadrien Michaud</td>
</tr>
<tr>
<td>Retina Imaging</td>
<td>Laboratory of Applied Photonic Devices (STI/LAPD)</td>
<td>Timothé Laforest, Dino Carpentras, Mathieu Kunzi</td>
</tr>
<tr>
<td>Tomoprint</td>
<td>Laboratory of Applied Photonic Devices (STI/LAPD)</td>
<td>Damien Loterie, Paul Delrot</td>
</tr>
<tr>
<td>VascuSafe</td>
<td>Microsystems Laboratory 4 (STI/LMIS4)</td>
<td>Guillaume Petit-Pierre, Marc Boers</td>
</tr>
<tr>
<td>EmbryoSpin</td>
<td>Microsystems Laboratory 1 (STI/LMIS1)</td>
<td>Marco Grisi, Marc Conley</td>
</tr>
<tr>
<td>Digitalization Clinical Trials</td>
<td>Operating Systems Laboratory (IC/LABOS)</td>
<td></td>
</tr>
<tr>
<td>Medusoil</td>
<td>Soil Mechanics Laboratory (ENAC/LMS)</td>
<td>Dimitrios Terzis</td>
</tr>
<tr>
<td>Mano</td>
<td>Defitech Foundation Chair in Brain-machine Interface (STI/CNBI)</td>
<td>Luca Randazzo</td>
</tr>
</tbody>
</table>

**About some Innogrants**

EPFL Innogrants | 2018
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

prediggo Solutions

"Our online conversion rate went up 50%"
Moevenpick AG.

Vincent Schickel
A Social Network

Win a 10-day entrepreneurship training in Boston

About some Innogrants

Internet
E-learning

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)

Additionner deux nombres
Faites la soustraction
Multiplier deux nombres
d’autres vont suivre!

Solution:

Win a 10-day entrepreneurship training in Boston

About some Innogrants

EPFL Innogrants | 2018
Local Information

Image of a website interface with a map and information about local events. The interface includes a video player and options for registration and connectivity.
Chef’s Road

Food supply chain

farmer → transport → storage → transport → shop → consumer

Youssef El Houti, Abdelkoudouss Badou
Web Testing

Load Web Application → Extract source code → Read and understand code → Trigger user action

Report results → Continue

Check for bug

About some Innogants

Internet
About some Innogrants
Cloud Management

Value chain in public clouds

Data Centers + Networks

End-User Organizations

SaaS Providers

PaaS Providers

IaaS Providers

Organizations

Internet

EPFL Innogrants | 2018
Internet and Mobile Apps

Soon to be released!
SublimeVideo
HTML5 Video Player

Acquired by

Zeno Crivelli
Network Technologies for Mobile

Graphical Use Interface for Microcast prototype for video streaming
Software Applications

Complete signage solution at your fingertips

Use your content or customize our templates

- LCD Display 42" In
- LCD Frame 10", 15" In

At Your Locations

COMING SOON (preview access)

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

Acquired by Second Spectrum

Horesh Ben Shitrit

About some Innogrants

Software
Vision & Sailing

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

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.

1. Recruiter prepares interview questions
2. Recruiter sends questionnaire to candidates
3. Candidates record video with answers
4. Recruiter watches videos and takes a decision
Efficient access to RAW data
Cloud Storage

Today’s cloud services

your laptop

untrusted
WLAN

DSL
untrusted

untrusted international networks

GCHQ

untrusted cloud storage provider

NSA

← download → upload →
Graspeo

Share Knowledge Privately

Hello Graspeo!

Syncing with Peer-to-Peer

Graspeo Server

• Filename
• Time
• Owner

Hello Graspeo!

Andrii Vozniuk

About some Innogrants
Software
Nowy

Nowy

Nowy Friends
Know when your friends are nearby

Powered by Nowy

Know the world around you!

https://nowyapp.com/

Loïc Gardiol, Amer Chamseddine & Silvi Andrica
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:

Spain

US
Personnalisez votre boutique en ligne avec des recommandations personnalisées

Télécharger GRATUITEMENT
ArtMYN

(re)discover Art

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

www.imverse.ch
About some Innogrants

CAD Design
Digitalization of Clinical Trials

Digitalization of clinical trials
INTERNET AND SOFTWARE

ELECTRONICS

OTHER HARDWARE (ROBOTICS, MECHANICS, SENSORS)

ENERGY & ENVIRONMENT

MEDICAL DEVICES & BIOTECHNOLOGY
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.
www.creal3d.com
Micro-Display Technologies

Acquired by

Nicolas Abelé

Lemoptix

About some Innogrants

Electronics
Light shaping by nano-structured waveguides

... as thin as a human hair

Cadmium free
Mercury free
20 μm

for energy efficient distributed illumination
Technis

Experience a world, Beyond the Court
DISCOVER / SHARE / HAVE FUN

Naïk Londono, Martin Hofmann & Wiktor Bourée
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

About some Innogrants | Electronics

EPFL Innogrants | 2018
Predictive maintenance in harsh environments?

Optical fiber sensors + smart analytics
About some Innogrants
Nanophotonics Spectroscopy

About some Innogrants

Electronics
Lasers & Diodes Materials

Laser Products

AllInN HEMT at High temperature

Processing

Characterizations
New Chip Architecture
Automated Chip Design
FIELDS

INTERNET AND SOFTWARE

ELECTRONICS

OTHER HARDWARE (ROBOTICS, MECHANICS, SENSORS)

ENERGY & ENVIRONMENT

MEDICAL DEVICES & BIOTECHNOLOGY
A New 3D Printer

Damien Loterie, Paul Delrot
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
Micro-Robots

Benoit Dagon
Christophe Canales
Guillaume Boetsch
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

Nasser Hefyene
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

About some Innogrants

Software
INTERNET AND SOFTWARE
ELECTRONICS
OTHER HARDWARE (ROBOTICS, MECHANICS, SENSORS)
ENERGY & ENVIRONMENT
MEDICAL DEVICES & BIOTECHNOLOGY
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

About some Innogrants

Energy
Energy Generation & Osmosis

28% Energy for cooling

70% Power

Waste Heat

OsmoTech

Patented Technology

Elodie Dahan
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
INSOLIGHT

DISRUPTIVE INNOVATION IN OPTICS FOR SOLAR ENERGY

OUR VISION
Thinkee

Knowledge base

Consumption Monitoring

Home

Apartment

Source

Actuators

iLoads

Environment informations

Source

Actuators

iLoads

Environment informations

About some Innogrants

Electronics
Lironix

LIRONIX

Smart Windows
For Building Integrated Photovoltaics (BIPVs)

Giuseppe Sforazzini & Sergio Allegri
GRZ Technologies

Claudio Ruch & Noris Gallandat
INTERNET AND SOFTWARE
ELECTRONICS
OTHER HARDWARE (ROBOTICS, MECHANICS, SENSORS)
ENERGY & ENVIRONMENT
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

DistalDriver®

External Positioner

Control Interface

DistalArms®

Win a 10-day entrepreneurship training in Boston

zühlke ventures
Haptic Robot for Surgeries

About some Innogrants

Acquired by
Helping paraplegic patients walk again
Movement controller (knob)

Allows all patients to benefit from CIMT

Paralyzed arm

Healthy limb

Knob

Electrodes

Andrea Maesani & Andrea Biasiucci
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.

TWIICE

About some Innogants

Medtech

Marek Jancik & Tristan Vouga

TWIICE
Remote Cardiac Monitoring

About some Innogrants
EEG Buds

About some Innogrants

Medtech

Naik Londono
Leonardo DiCaprio Invests in Emotion-Capture Startup MindMaze

Switzerland-based human-computer 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

FluxEXPLORER™

Microvascular imaging

before occlusion  during occlusion  after occlusion

Laser Doppler Perfusion
LOW  HIGH

Alexandre Serov
Medical Imaging System

Visualizing Microcirculation

Acquired by

NOVADAQ

About some Innogrants

Medtech
Active Wearables

- Temperature
- Force
- Vibration

About some Innogrants
Medtech
Optics for Endoscopy

About some Innogrants

Medtech
Super-Resolution Microscopy

Angular beam scanning holographic microscopy

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

In vivo models (organoids)

www.viventis-microscopy.com
EmbryoSpin

Embryo morphology
Microscopy

Qualitative inspection

Embryo endogenous chemistry
NMR

Quantitative spectroscopy

Fertilization

Embryo Spin probes

Future
Selection
Microfluidics & Allergies

About some Innogrants

Medtech
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 Poupart
Retina Imaging

- AMD
- Diabetic retinopathy
- Glaucoma

Pathology

Early microscopic symptoms:
- Cell density decrease
- Neovascularure

YEARS

Macroscopic symptoms:
- Pressure
- Bleeding
- Oedema
- Impact on vision

Better treatment
New drugs
Monitoring

Timothé Laforest, Dino Carpentras, Mathieu Kunzi
VascuSafe

1. Femoral artery

2. VascuSAFE cerebral artery vasospasm

3. VascuSAFE

4. Spasm released

Guillaume Petit-Pierre, Marc Boers

About some Innogrants

Medtech
About some Innogrants

Medtech

mano

Artificial Tendon
Biosemic

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

Impedance-driven cancer medicine

Cancer patient → Tumor fragments

1 mm³

Direct transfer to wells

1 day drug-perfusion

On-line electric measurements

Bio-impedance Z

Time

Personalized therapy

Electric measurements drive therapy design

About some Innogrants

Cancer therapy
Handheld optical reader for diagnostic test strips
Dispencell

About some Innogrannts

Georges Muller & David Bonzon

Dispencell

Georges Muller & David Bonzon
Cell Culture Platform

Sylke Hoehnel & Nathalie Bradenberg

About some Innogrants Medtech
Personalized medicine
Volumina

About some Innogrants

Medtech
Cell Culture Dish Technology
Notch Inhibitors for Cancer Therapy

Cancer cells need Notch signaling to proliferate and metastasize

- T-ALL
- Breast Cancer

Differentiation

- Prostate Cancer
- Glioblastoma
- Medulloblastoma
- Tumor Angiogenesis

GSI are currently used in clinical phase!

- Colorectal Cancer?
Notch Enhancers
Twenty Green

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

Christian Heinis, Andres McAllister
Microbiome Diagnostics

Stool Sample → Extracted DNA → Quantitative profile