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.
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
INNOVATION AND TECH. TRANSFER
THE INNOGRANTS
ROLE MODELS
ABOUT SOME INNOGRANTS
Some numbers

**Campus (2016)**
- 10,536 students, of whom 2,124 PhD students
- 346 faculty
- 3,755 staff (scientific & technical)

**Spending (2016)**
- CHF 674M from State budget
- CHF 267M other funding (EU, SNSF, private...)
- Total: CHF 941M
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

vpi.epfl.ch

EPFL Community (Professors, Researchers, Students)

CORPORATES
VPR
VPE
VPI

SMEs
START-UPS
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)
It's not about money only: A rich and dense ecosystem

Advice/Training:

Exposure/networks:

Housing:

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](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

LOSE SUPPORT: THE EPFL INNOVATION PARK

Innovation & Tech. Transfer

The infrastructure
"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
- **Mar 04-Jun 04**: Coaching PSE financed by EPFL
- **May 04**: Publication in Dialogue newsletter
- **Jun 04**: Loan of CHF100k
- **Sept 04**: Foundation of NEXThink SA
- **Dec 04**: Contacts with VCs
- **Jan 05**: 1st pilots with customers
- **Apr 06**: 1st round CHF 1.6M
- **Jul 07**: 2nd round CHF 6M
- **Avril-Sept 04**: Further coaching
- **Déc. 04**: Winner of the “startup competition”

**As of 2016, more than 65M in funding, more than 200 employees, www.nexthink.com**
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>
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<tr>
<td>L.E.S.S.</td>
<td>2012</td>
<td>VI Partners</td>
<td>CHF 3M</td>
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<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>CHF 125M</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>Asceneuron</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**: Acquired by [undisclosed acquirer; rumored to be Apple]
- **Lemoptix**: Acquired by [undisclosed acquirer; rumored to be Apple]
- **senseFly**: Acquired by [undisclosed acquirer; rumored to be Apple]
- **PIX4D**: Acquired by [undisclosed acquirer; rumored to be Apple]
- **Jilion**: Acquired by [undisclosed acquirer; rumored to be Apple]
- **Intel**: Bought by Cisco for $3.5B in Jan. 2017
- **Parrot**: Acquired by [undisclosed acquirer; rumored to be Apple]
- **aimago**: Acquired by [undisclosed acquirer; rumored to be Apple]
- **bugbuster**: Acquired by [undisclosed acquirer; rumored to be Apple]
- **SENSIMA technology sa**: Acquired by [undisclosed acquirer; rumored to be Apple]
- **faceshift**: Acquired by [undisclosed acquirer; rumored to be Apple]
- **NOVADARQ**: Acquired by [undisclosed acquirer; rumored to be Apple]
- **AppDynamics**: Acquired by [undisclosed acquirer; rumored to be Apple]
- **MPS Monolithic Power Systems**: Acquired by [undisclosed acquirer; rumored to be Apple]

**EPFL Innogrants | 2018**

**Start-ups**

**Exits**
EPFL Spin-off 2017 Exits

Acquired by

Globus Medical

Acquired by

Parrot

Now Part of MindMaze

Acquired by

Mimotec Group

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: 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
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://vpi.epfl.ch/innogrants
Sept premiers projets dans le giron de l’Innovation Network de l’EPFL

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

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

L’unique en Europe, ce fonds, destiné à accélérer la concrétisation d’idées internes à l’école, est activement soutenu par LODH.

Innovators in the media

Warm Welcome
Facts & Figures

About 770 requests
115 grants (CHF 10.7M)
70 companies created
CHF 32M in new grants
CHF 305M in equity
8 exits (M&As)

Innogrant origin

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

<table>
<thead>
<tr>
<th>College</th>
<th>Contacts</th>
<th>%</th>
<th>Grants</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>STI</td>
<td>199</td>
<td>26%</td>
<td>46</td>
<td>40%</td>
</tr>
<tr>
<td>IC</td>
<td>117</td>
<td>15%</td>
<td>28</td>
<td>24%</td>
</tr>
<tr>
<td>SB</td>
<td>71.5</td>
<td>9%</td>
<td>14.5</td>
<td>13%</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>32.5</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>11%</td>
<td>4</td>
<td>3%</td>
</tr>
<tr>
<td>Total</td>
<td>771</td>
<td>115</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Innogrant vs. Immigrant

College Contacts % Grants %
STI 199 26% 46 40%
IC 117 15% 28 24%
SB 71.5 9% 14.5 13%
SV 54 7% 12.5 11%
ENAC 32.5 4% 2 2%
CDM/CDH 21.5 3%
Students 82 11% 4 3%
Total 771 115
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
The Outputs

All EPFL start-ups on https://vpi.epfl.ch/EPFL_Spin-offs

- abionic
- aimago
- aleva
- anemomind
- anokion
- ARTMyn
- attolight
- azbooka
- Bright
- Sensors
- bugbuster
- cellestia
- biotech
- Chefs
- Read
- Cyberhaven
- Cytomenc
- DAAV
- Technologies
- Co.,
- Ltd.
- DIGITAL
- OPTIX
- DistalMotion
- enairys
- ExCellence
- Biotech
- faceshift
- Fastree 3D
- Gaiasens
- Environmental
- Sensing
- Simulation
- GliaPharm
- G-Therapeutics
- iminatechnologies
- imperix
- inversive
- iNoCs
- insolight
- intento
- Jilion
- KB MEDICAL
- Lemoptix
- LESS
- just
- brilliant
- Lucentix
- Lunaphore
- Technologies
- Made in Local
- Mimosys
- mindmaze
- Minsh
- morphotonix
- Nanoga
- Nanolive
- Novagan
- OsmoBlue
- Energy
- ozwe
- PlayfulVision
- prediggo
- RAW Labs
- routeRANK
- rovenso
- SENSORS
- NEUROPROSTHETICS
- SmartCardia
- StereoTools
- SThAR
- Swiss
- Stereoscopic
- Applications
- SUN
- Technis
- Twenty
- Green
- Viventis
- Microscopy
- Sensio
AGENDA

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**

“...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
IT'S ALSO ABOUT ROLE MODELS
Thursday, November 6th, 2014
from 12:00 to 14:00, Room BC420, EPFL

How to build a Billion dollar Company

Speaker: Michael Baum
- Founder & CEO of Founder.org
- Founder of Splunk (IPO)
- 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

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:
- Michael Baum
- Georgios Anastasopoulos
- Arieh Rothman
- Ralph Erskine

Registration free but mandatory: www.venturelab.ch/SC

https://vpi.epfl.ch/startup_champions
Startup Champions @ EPFL
Swiss fintech startups

Date: Thursday, November 17th, 2016
Time: From 17:30 to 20:00
Place: Rolex Learning Center Forum, EPFL

Keynote: „Success recipe for entrepreneurs“

3 fintech Startups on the starting blocks:
- George Karakis, Founder of Temenos
- Serahin Turkien, CEO of moneGes
- Robin Platt, Co-founder and CEO of abolon

Registration free but mandatory: www.venturelab.ch/SC

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
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ABOUT SOME INNOGRANTS
<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>
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<tr>
<td>Cytomec</td>
<td>Orthopaedic Research Division (STI)</td>
<td>Tom Quinn</td>
</tr>
<tr>
<td>DAAV technologies</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>
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## INNOGRANTS - 2006

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<th>LABORATORY (SCHOOL)</th>
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<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>
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<td>Attolight</td>
<td>Laboratory of Quantum Optoelectronics (SB/LOEQ)</td>
<td>Samuel Sonderreger</td>
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<td>Jilion</td>
<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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<tr>
<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>
<td>Artificial Intelligence Laboratory (IC/LIA)</td>
<td>Vincent Schickel</td>
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<td>Enairys</td>
<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>Optimax (logistics and the internet)</td>
<td>Artificial Intelligence Laboratory (IC/LIA)</td>
<td>Adrian Petcu</td>
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<td>Gaiasens</td>
<td>Environmental Fluid Mechanics Laboratory (ENAC/EFLUM)</td>
<td>Olivier Couach</td>
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<td>Microsystems Laboratory (STI/LMIS4)</td>
<td>Nicolas Abele</td>
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<td>Signal Processing Laboratory 5 (STI/LTS5)</td>
<td>Jean-Philippe Thiran</td>
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<td>Database Laboratory (IC/LBD)</td>
<td>David Portabella</td>
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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>Andre Mercanzini</td>
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<td>Laboratory for Computer Communications and Applications (IC/LSA2)</td>
<td>Slavisa Sarafijanovic</td>
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<td>Madeinlocal</td>
<td>Institute of Core Computing Science (IC/CGC)</td>
<td>Manuel Acevedo</td>
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# Innogrants - 2009

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<td>Minsh</td>
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<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>
<td>Institute of Electrical Engineering (STI/IEL)</td>
<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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<tr>
<td>Imina</td>
<td>Robotic Systems Laboratory 2 (STI/LSRO2)</td>
<td>Guillaume Boetsch / Benoit Dagon / Christophe Canales</td>
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About some Innogrants 2009
# Innogrants - 2010

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<td>GoldenMMA</td>
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<td>Bastien Rachet</td>
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<td>Lake Mind Cloud Management</td>
<td>Operating Systems Laboratory (IC/LABOS)</td>
<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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<tr>
<td>Samantree</td>
<td>Laboratory of Physical Chemistry of Polymers and Membranes (SB/LCPPM)</td>
<td>Davor Kosanic</td>
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<tr>
<td>BugBuster</td>
<td>Operating Systems Laboratory (IC/LABOS)</td>
<td>Olivier Crameri / John Renault</td>
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![GoldenMMA Logo](goldenmma.png)

![Lake Mind Cloud Management Logo](lake_mind_cloud_management.png)

![Abionic Logo](abionic.png)

![Samantree Logo](saman_tree.png)

![BugBuster Logo](bugbuster.png)
<table>
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<th>PROJECT</th>
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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>Polymers Laboratory (STI/LP)</td>
<td>Harm-Anton Klok</td>
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<tr>
<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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<td>KB Medical</td>
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<td>Philippe Bérard &amp; Szymon Kostrzewski</td>
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<td>Distalmotion</td>
<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>Osmoblue</td>
<td>Microsystems Laboratory 4 (STI/LMIS4)</td>
<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>
<td>Group Depeursinge (STI/GR)</td>
<td>Yann Cotte</td>
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<td>Shenqi Xie &amp; Vaida Auzelyte</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>
<td>Lorenzo Keller</td>
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**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>Code Tickler</td>
<td>Dependable Systems Lab (IC/DSDLAB)</td>
<td>Cristian Zamfir</td>
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<td>G-Therapeutics</td>
<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>Robert Meissner</td>
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**About some Innogrants 2013**
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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>Laboratory of Stem Cell Bioengineering (SV/LSCB)</td>
<td>Sylke Hoehnel &amp; Nathalie Bradenberg</td>
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<td>Graspeo</td>
<td>Real-Time Coordination &amp; Dist. Interact. Syst. (STI/REACT)</td>
<td>Andrii Vozniuk</td>
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<td>Nowy</td>
<td>Dependable Systems Laboratory (IC/DSLAB)</td>
<td>L. Gardiol, A. Chamseddine &amp; S. Andrica</td>
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<td>ObViz</td>
<td>Artificial Intelligence Laboratory (IC/LIA)</td>
<td>Claudiu Musat</td>
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<td>EAR</td>
<td>Audiovisual Communications Lab (IC/LCAV)</td>
<td>Juri Ranieri &amp; Ivan Dokmanic</td>
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**About some Innogrants**

**2014**
## Innogrants - 2015

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<td>Mario Zaiss &amp; Duncan Sutherland</td>
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<td>Alberto Hernandez de Castro, Miroslav Sluc,</td>
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<td>Marius Wehrle &amp; Eduardo Zambrano</td>
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<td>Swiss Sonic</td>
<td>Laboratory of Microengineering for Manufacturing (STI/LPM)</td>
<td>Csaba Laurenczy</td>
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<td>Notch Enhancers</td>
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<td>Amélie Béduer &amp; Thomas Braschler</td>
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<td>Marc Friedli</td>
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<td>Naïk Londono, Martin Hofmann &amp; Wiktor Bourée</td>
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<td>Unit of prof. Salathé (SV/UPSALATHE)</td>
<td>Alexeï Kounine &amp; Christopher Burger</td>
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<td>Loïc Baboulaz, Alexandre Catsicas, Julien Lalande, Mathieu Rudelle</td>
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<td>Swiss Plasma Center (SB/SPC)</td>
<td>Mario Michan</td>
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<td>Christian Heinis, Andres McAllister</td>
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<td>Simon Gallo, Giulio Rognini</td>
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<td>Vizir</td>
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<td>Martijn Bosch &amp; Adrien Bierbaumer</td>
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<td>Stem Cell Dynamics Laboratory (SV/LDCS)</td>
<td>Georges Muller &amp; David Bonzon</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>Giuseppe Sforazzini</td>
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<td>Clément Javerzac-Galy &amp; Nicolas Piro</td>
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<td>TWIICE</td>
<td>Laboratoire de Systèmes Robotiques (STI/LSRO)</td>
<td>Marek Jancik &amp; Tristan Vouga</td>
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<td>EEG buds</td>
<td>Defitech foundation chair in Brain-Machine interface (STI/CNBI)</td>
<td>Naik Londono</td>
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<td>Lumigbo</td>
<td>Laboratory of Biomedical Orthopedics (STI/LBO)</td>
<td>Andreas Schmocker, Azadeh Khoushabi</td>
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<td>GRZ Technologies</td>
<td>Laboratory of Materials for Renewable Energy (SB/LMER)</td>
<td>Noris Gallandat, Claudio Ruch</td>
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**Innogrants – 2016**
## Innogrants – 2017

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<td>Optics &amp; Photonics Technology Laboratory (STI/OPT)</td>
<td>Vincent Gajdosik, Tomas Sluka</td>
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<td>Powder Technology Laboratory (STI/LTP)</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>Mirracelle</td>
<td>Biomedical Imaging Laboratory (STI/LIB)</td>
<td>Daniel Schmitter, Zsuzsanna Püspöki, Pablo Garcia-Amorena</td>
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<td>Feeltronix</td>
<td>Foundation Bertarelli Chair in Neuroprosthetic Technology (STI/LSBI)</td>
<td>Arthur Edouard Hirsch, Aaron Gerratt, Hadrien Michaud</td>
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<td>Timothé Laforest, Dino Carpentras, Mathieu Kunzi</td>
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<td>Tomoprint</td>
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<td>Damien Loterie, Paul Delrot</td>
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<td>Marco Grisi, Marc Conley</td>
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<td>Luca Randazzo</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
A Social Network

Barbara Yersin, Jonathan Maim
E-learning

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

Nous développons un enseignement virtuel de mathématiques pour aider les enfants à faire leurs devoirs en animant pas à pas les leçons (comme montré sur cette page). Nous nous efforçons de le mettre à disposition des enseignants et des élèves à un prix abordable pour tous.

Si vous êtes intéressé laissez-nous vos coordonnées et nous vous contacterons dès que le produit sera en vente

Votre nom
Votre e-mail
Je suis élève • parent • enseignant

Envoyer

Correct: 0
Incorrect: 0
Local Information

About some Innogrants

Manuel Acevedo
Chef’s Road

Food supply chain

farmer → storage → storage → consumer

About some Innogrants
E-commerce
Web Testing

Load Web Application → Extract source code

Report results → Continue

Check for bug → Trigger user action

Read and understand code

Venture Kick
Hasler Stiftung
Go Beyond Early Stage Investing
Business Angels Switzerland (BAS)™
Polytech Ventures

About some Innogants
Internet

Acquired by
AppDynamics

Renault John Olivier Crameri

EPFL Innogants | 2018
Cyberhaven

Test Report
15 bugs found

SQLLite 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

End-User Organizations

SaaS Providers

PaaS Providers

IaaS Providers

Data Centers + Networks

Value chain in public clouds

Datacenters  IaaS  PaaS  SaaS  End-Users

About some Innogrants
Mobile Software Apps

Gallery: Windows Mobile Platform

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台

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About some Innogrants

Internet & Mobile

Win a 10-day entrepreneurship training in Boston

Jie Wu
Internet and Mobile Apps

Soon to be released!
SublimeVideo
HTML5 Video Player

Acquired by
Jilion

Daily motion

Zeno Crivelli

About some Innogrants

Internet & Mobile
Network Technologies for Mobile

Graphical Use Interface for Microcast prototype for video streaming
Complete signage solution at your fingertips

Use your content or customize our templates

Our Website

LCD Display
42” In

6 ft

At Your Locations

LCD Frame
10”, 15” In

COMING SOON
[preview access]
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
Vision & Sailing

Advanced data processing algorithms and devices to help sailors win races.
Figure 1: Video screening job candidates explained in four steps.
Efficient access to RAW data
Cloud Storage

Today’s cloud services

your laptop

untrusted
WLAN

untrusted
international networks

DSL
untrusted

GCHQ

untrusted
cloud storage provider

NSA

← download   upload →

About some Innigrants

Software
Graspeo

Share Knowledge Privately

Hello Graspeo!

Syncing with Peer-to-Peer
Nowy

Know the world around you!

Nowy Friends

Know when your friends are nearby

Powered by Nowy

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:
Personnalisez votre boutique en ligne avec des recommandations personnalisées

Télécharger GRATUITEMENT
Mirrakoi

Daniel Schmitter, Zsuzsanna Püspöki, Pablo Garcia-Amorena

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.
Creal3D

Light-field
True depth in virtual images

www.creal3d.com
Micro-Display Technologies

Acquired by

Nicolas Abelé

About some Innograts

Electronics
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

Yann Tissot
Simon Rivier
About some Innogrants
A New Computer Interface

Frédéric Kaplan

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

Christian Niclass
Predictive maintenance in harsh environments?

Optical fiber sensors + smart analytics
Xsensio

About some Innogrants

Electronics
Nanophotonics Spectroscopy

Samuel Sonderegger
Jean Berney
Lasers & Diodes Materials

Laser Products

Processing

Characterizations

AllInN HEMT at High temperature

About some Innogrants
New Chip Architecture
Automated Chip Design

Jason Brown
INTERNET AND SOFTWARE
ELECTRONICS
OTHER HARDWARE (ROBOTICS, MECHANICS, SENSORS)
ENERGY & ENVIRONMENT
MEDICAL DEVICES & BIOTECHNOLOGY
A New 3D Printer

Damien Loterie, Paul Delrot

About some Innogrants

Mechanical
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
Micro-Robots

About some Innogrants

Robotic

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

About some Innogrants

Photonics
Wobbe Index

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
FIELDS

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

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

and/or

=  

(HyPES System)

- Sunny or Windy times:  
STORAGE = Air Compression

- Sunless & Windless times:  
DISCHARGE = Air Expansion

Sylvain Lemofouet

About some Innogants

Energy
Energy Generation & Osmosis

About some Innogrants

Energy
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
About some Innogrants

Electronics
About some Innogrants

Energy

Giuseppe Sforazzini & Sergio Allegri
FIELDS

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
Mechanical Robot for Surgery

DistalDriver®

External Positioner

Control Interface

DistalArms®

Win a 10-day entrepreneurship training in Boston

Ricardo Beira
Haptic Robot for Surgeries

Szymon Kostrzewski
Philippe Bérard

Acquired by
G-Therapeutics

Helping paraplegic patients walk again

Vincent Delattre
Intento

Movement controller (knob)

Allows all patients to benefit from CIMT
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 Innogrants

Medtech
Remote Cardiac Monitoring

About some Innogrants

Medtech
EEG Buds

NEUROLOGICAL DISORDERS
A global disease burden

50 MILLION PEOPLE SUFFER FROM EPILEPSY
326 MILLION SUFFER FROM MIGRAINE
62 MILLION PEOPLE SUFFER FROM CEREBROVASCULAR DISEASE
244 MILLION SUFFER FROM ALZHEIMER DISEASE AND OTHER DEMENTIAS.

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 has 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  M  Y  R  HIGH

Alexandre Serov

Win a 10-day entrepreneurship training in Boston

About some Innograts  Medtech
Medical Imaging System

Visualizing Microcirculation

Win a 10-day entrepreneurship training in Boston

About some Innogrants

Medtech

Acquired by

NOVADAQ

Michael Friedrich
Active Wearables

- Temperature
- Force
- Vibration

Simon Gallo, Giulio Rognini

About some Innogrants
Medtech

EPFL Innogrants | 2018
Optics for Endoscopy
Super-Resolution Microscopy

Angular beam scanning holographic microscopy

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

In vivo models

systems

brain

c.elegans

retina

mouse

intestinal

In vitro models (organoids)

www.viventis-microscopy.com
EmbryoSpin

Embryo morphology
Microscopy

Qualitative inspection

Fertilization

Embryo endogenous chemistry
NMR

Quantitative spectroscopy

Embryo Spin probes

Future Selection
Microfluidics & Allergies

Nicolas Durand

About some Innogrants

Medtech
Lunaphore

Fig. 1. Design of the Microfluidic Tissue Processor

Fig. 2. Photographs of the device and the assembled system.
Lumigbo

About some Innogrants

Medtech
Retina Imaging

Pathology
- AMD
- Diabetic retinopathy
- Glaucoma

Early microscopic symptoms:
- Cell density decrease
- Neovascularure

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

Years

Better treatment
New drugs
Monitoring

Timothé Laforest, Dino Carpentras, Mathieu Kunzi
VascuSafe

1. Femoral artery

2. VascuSAFE
   - cerebral artery
   - vasospasm

3. VascuSAFE
   - spasm released

4. About some Innogrants

Guillaume Petit-Pierre, Marc Boers

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 Innogrannts

Cancer therapy
Handheld optical reader for diagnostic test strips
Dispencell

Georges Muller & David Bonzon

About some Innogrants

Medtech
Cell Culture Platform

Sylke Hoehnel & Nathalie Bradenberg
Personalized medicine
About some Innografts

Medtech
Cell Culture Dish Technology
Cancer cells need Notch signaling to proliferate and metastasize

- T-ALL
- Breast Cancer

GSI are currently used in clinical phase
- Colorectal Cancer?

Differentiation
- Prostate Cancer
- Glioblastoma
- Medulloblastoma

- Tumor Angiogenesis
Notch Enhancers

Viktoria Reinmüller

Notch Receptor

Ligand
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.

**Twenty Green**

healthy and happy animals

Mario Zaiss & Duncan Sutherland

About some Innogrants

Biotech
FXII Inhibitor

Coagulation Cascade

Intrinsic Pathway
(surface contact)

Extrinsic Pathway
(tissue factor)

XIIa  
XIa  
|Xa  

Heparin (LMWH)

Thrombin (IIa)

Thrombin-Fibrin Clot

aPTT  
PT

Christian Heinis, Andres McAllister

About some Innogrants  
Biotech
ADC Imaging

Firefly + Luciferase enzyme + Luciferin → Light production
Microbiome Diagnostics

Stool Sample → Extracted DNA → Quantitative profile