

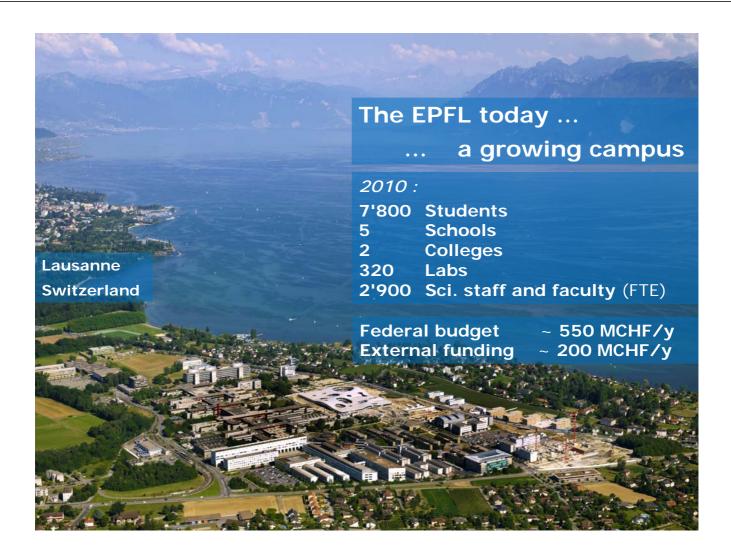
Technology Transfer @ EPFL

a short overview

WIPO - OMPI seminar on patents and technology transfer Geneva, Dec. 5th, 2011

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- 1) Teaching & Education
- 2) Research

3) Innovation & Technology Transfer

Contribute to create and develop ...

future companies

future jobs

future products / services

future competitiveness

future quality of life

EPFL-TTO/ 5-12-2011

Relations with the economy

early and continuous commitment of EPFL

2010 : opening Innovation Square for R&D hubs of leading Cnies

2009 : additional affordable m2 for start-ups : "Le Garage"

2008 : seed fund (polytech ventures)

2007: revised TT regulations & overhead policy

2006: new partnerships: endowed chairs, indus. incubators

2005 : centers, programs, innovation grants, TT alliance

2004: vice-presidency for innovation and TT

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

1997 : coaching for early stage start-up projects

1995 : pre-seed money for start-up projects : foundation FIT

1993 : legal personality -> IP strategy / licensing

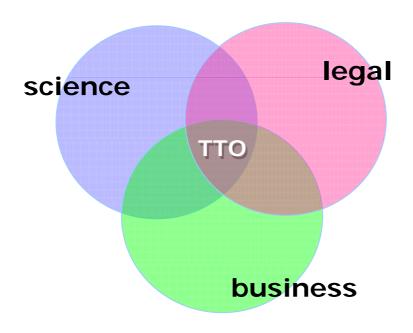
1991: science park created: foundation PSE

1988 : policy for research contracts & partnerships

1986: two first major strategic industrial partnerships 1986: industrial liaison program: Cast / association APLE

The Technology Transfer Office

Professional services for researchers



EPFL-TTO:
6.0 FTE TT officers
0.5 FTE mngmt
1.6 FTE back-office
(9 personnes)

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Our duties as TT office

We are a service for the labs and for the EPFL

- Research agreements, incl. service contracts and partnerships with Companies (negotiations / approval)
- ❖ Intellectual property : evaluation, protection & management
- Technology licensing: licenses and other TT agreements
- Interactions with start-up companies: licenses, equity, R&D agreements, access to labs, conflicts of interests, etc.
- TT policies, laws and regulations related to TT, ...
- @ EPFL: practical course for PhD students in mgmt of innovation and TT within doctoral school > MINTT www.mintt.ch

Technology transfer / licensing @ EPFL

a few key numbers of the TTO

Research agreements handled by the office: > 300 / year

New invention disclosures: ca 80-100 / year

New priority patent applications: ca 40-50 / year

New licenses / TT agreements signed : ca 30-50 / year

New Start-ups: ca 10-15 / year (> 180 since 1990)

Licensing revenues: ca 1-3 MCHF/ year

Active patent cases (mngmt EPFL-TTO): > 300

Active licenses / TT agreements: > 350

Not included : IP directly transferred through R&D contracts

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Technology licensing (main actions of EPFL-TTO):

Evaluate invention disclosures

Definition of a transfer strategy

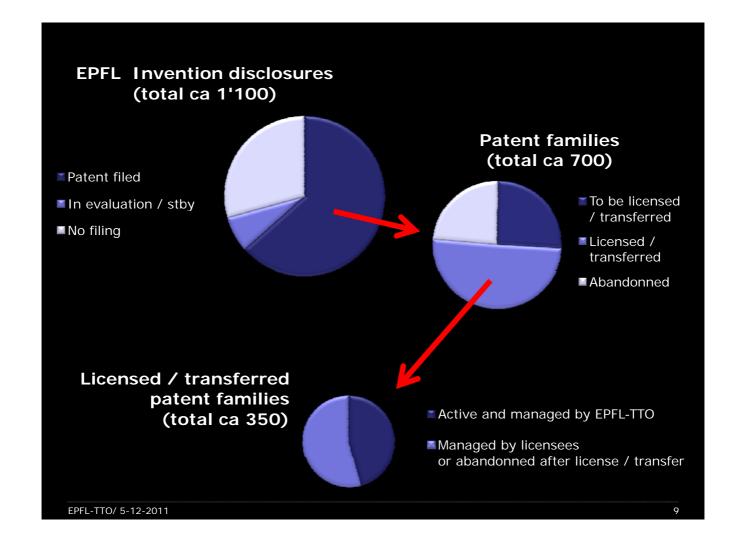
Protect intellectual property when appropriate

Search for partners

Licensing and transfer agreements

IP management, license follow-up, financial management, distribution of returns (3 x 1/3 rule)

→ "cradle-to-grave" responsibility !!



Not only patents are interesting for our partners ...

- Software
- Detailed specifications of a system, drawings, data
- Design and realization of a circuit board
- Design and testing of an IC or micro-system
- Demonstrator, early stage prototype
- Biological material, chemical compound
- Know-how
- Trademark

...



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EPFL: Research collaboration with industry

attractive conditions, flexibility

Objectives of the policy:

- Easier and shorter negotiations
- Attractive IP conditions for companies
- Clear general rules with possibilities for special cases (flexibility)
- Fair contributions to indirect costs (overhead policy OH)

>>>>>> 3 "std" types of industrial contracts :

- Research agreement (OH 40%)
- Industrial grant (OH 20%)
- Service agreement (OH 60%)

(see also http://sri.epfl.ch)

- multi-years / multi-labs research programs in key fields of common interest (framework agreements)
- endowed chairs & donations
- · mutual access to costly research infrastructures
- academic activities of industrial researchers
 - √ active marketing and follow-up
 - √ top management commitment

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Technology Transfer: our philosophy

- Do what is "best for the technology"
- Foster good industrial relations
- Be reasonable
- Be flexible
- · Be action/results oriented

from K. Ku, Head of OTL and ICO of Stanford

... and read also the documents:

- Nine Points to Consider in Licensing University Technology
- University Technology Transfer "Why we do what we do"

available on the AUTM website: www.autm.net/White_Papers/3754.htm

Technology Transfer ...

... always in very close collaboration with the scientists / inventors and the responsible professor !!

We want and need:

proximity & team work !

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Technology transfer / licensing

a few TT cases (1/2)

Audio technologies

many licenses and IP transferlic. to Logitech (echo-canceling / web cam)start-up







Early detection of bladder cancer using phodynamic therapy (jointly with univ. hosp.)





Security of documents many licenses to various partners



Contact lenses for monitoring of intraocular pressure

- start-up with VC financing





start-up with VC financing







Photovoltaic Dye Solar Cells

- many licenses worldwide

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Collaboration with corporates

partnerships: a few recent examples

Partnership with Nestlé

2 endowed chairs R&D program







Partnership with NOKIA NOKIA



Partnership with ALCAN Eng. Products

ALCAN innovation cell on campus 1 endowed chair, R&D program



+ Swissquote, Debiopharm, La Poste, EOS, Crédit-Suisse, ...



Technology Transfer is people's business



« win - win »