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Presentation Format



Findings - Micro Level Analysis "UNICAMP – State University of Campinas" Prof. Dr. Bastiaan P. Reydon

10 – 11 August 2009
IP UniLink Consortium meeting
Rorkee, INDIA

Process for data collection

- Who collected the data?
 - Mainly Andreia Mara Pereira Phd Student
 - Study on legislation and main policy Consultants were hired
- How did you collect the data?
 - From UNICAMP: <u>www.unicamp.br</u>; <u>www.inova.unicamp.br</u> <u>www.cori.unicamp.br</u>; <u>www.reitoria.unicamp.br</u> <u>www.pg.unicamp.br</u>
 - Interviews with collaborators from INOVA: Patrícia Toledo Planinig Director; Marcelo Menossi IP Director; Pedro de Carvalho e Carolina Neves Contract and legislation in IP; Veronique Hourcade Communications .
- How many interviews did you conduct? 5 people
- When did you collect the data? June and July
- What is your assessment of the data collection process?
 - The process was very interesting and the collaborators were very much involved. The lack of time and resources to develop it better are the main problems.

In Brazil - Intellectual Property

In Brazil the next laws rules intellectual property that INOVA/UNICAMP makes use of:

- Law of Industrial Property (Law no. 9279, of 14/05/1996), which deals with patents, industrial designs, trademarks, geographical indications and unfair competition enforcement;
- Law 10196/01, amending articles of Law 9279/96;
- Decree 2553/98;
- Program of Computer Law (Law no. 9609, of 19/02/1998);
 Copyright Act, (Act No.9.610 of 19/02/1998);
- Decree No. 2556 of 20 April 1998;
- Resolution 58 of 14/07/98.

Legislative Environment

- What characterizes the legislative environment for HEI based Innovation and IP in your country?
- good gain division between inventor, department and companies in IP of patents
- guarantees the partners rights of patents
- What are the strengths in your legislative environment?
- · clear and good rules integrated with general legislation for patents
- What are the weaknesses in your legislative environment?
- difficulties to enforce all legislation
- other property rights types are not well ruled (p.e. GMO, Traditional Knowledge, plant variety protection, software);

Political Environment

- important national/regional programs/policies for supporting Science & Technology, Research and Innovation in HEIs?
- State of São Paulo FAPESP compulsory fund as part of VAT tax with refund or not. UNICAMP has a fund itself for small projects
- National FINEP finances many projects and has a resource surplus project based;
- National CNPq smaller project and students grant's
- What are the strengths of the existing programs/policies?
- The flexibility, the diverse types of possibilities for funding and the resources
- What are the weaknesses of the existing programs/policies?
- The elevated level of paper work needed, the long period waiting for approval and in the past the cuts on project for macro economical reasons;

Unicamp - State University of

Campinas

Founded in 1966 20 Schools and Institutes

- 58 undergraduate courses
- 135 graduate courses

Students Enrollment (2007)

- 16.984 undergraduates
- 15.230 graduates

Academic staff - 1743 (97% hold Ph.

Administration - 7.797







Case: Unicamp

- 17% of national research
- 10% of PhDs
- University with the highest number of top rated PhD and and MSc programs
- Highest number of patent filling applications in recent years
- Always concerned about transferring the knowledge to the public

Research excellence and tech transfer UNICAMP

Capes	Institute	Licensing ¹	Patents
7	Chemistry	8	204
7	Food Engineering	5	34
7	Biology	4	16
6	Mechanical Engineering	4	59
5	Medical Sciences	3	18
6	Chemical Engineering	3	20
6	Electrical and Comp. Eng.	4	50
5	Agriculture Engineering	3	24

• Source: http://www.prpg.unicamp.br/curso_stricto.phtml after 2003

Agency for Innovation Inova Unicamp

The AIMS

• The main aim is to encourage, promote, and facilitate the relationship between Unicamp and the market to encourage interdisciplinary research on various matters, education and knowledge development.

Mission

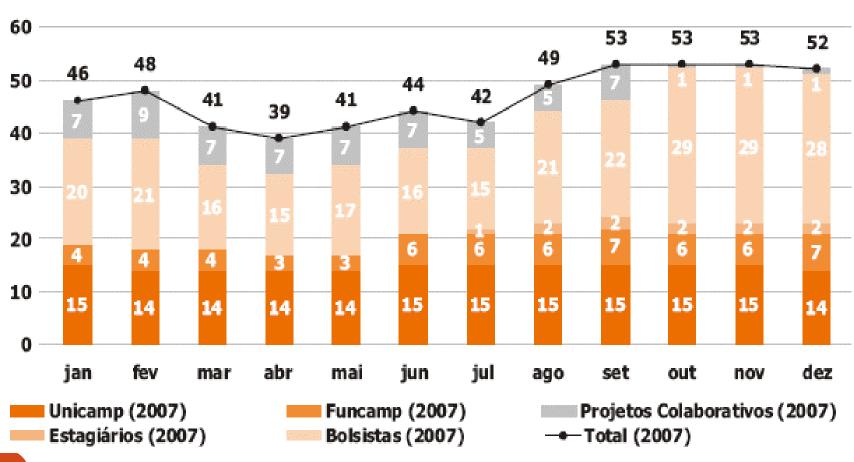
• Support to create and share knowledge that contributes to the economic development of Sao Paulo State, Brazil and the world

Inova Unicamp Programs and Activities

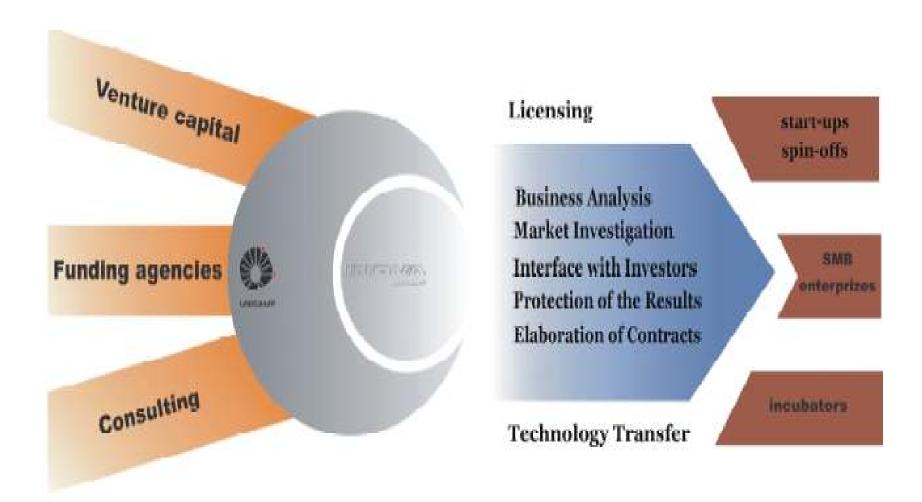
Cooperative R&D Program

- Strategic Partnership Program
- Continued Education & Training Program
- Science Park Program Development and Implementation
- Incentive to Technological-based start-up companies Program, and
- Intellectual Property Program Registration and Licensing

Staff Working at the Inova Unicamp



Inova Unicamp



State University of Campinas UNICAMP

Patenting & Licensing

- Inova TLO files patents on 100% of the professors inventions in Brazil;
- National: funded by the university or government;
- International: funded by the licensee;
- + 1 license agreement per month
- Royalties ranging from 2-9%, for the patent life time;
- Innovation Law (Dec/2004): all government uviversities and R&D centers Must have an office to manage IP

State University of Campinas UNICAMP

Owership

- Law 9279, May/1996: 100% university ownership of professors' and researcher' inventions;
- Innovation Law allows public institutions to give up the ownership to the inventor;
- If the research is funded by a company, usually IP belongs to the company.

Benefits Sharing

• Innovation Law (Dec/2004): Inventors must receive from 5% to 33% of royalties or licensing income. Unicamp applies 33%. Professors are also given % of the income from any consultancy they perform.

State University of Campinas UNICAMP

Support to Start-ups and Spin-offs

• The university provides incentives for the professors to create new companies and has a business incubator which supports these companies. When the companies become self sustained the pay a % of their income to the university

Government Incentives to Innovation

- Tax benefits to: companies that pays royalties (licensees) and to companies that invest in R&D;
- 50% of the salary of a researcher hierd by the company;
- Some priority sectors: Information Technology, energy (electricity, oil, natural gas). Priority areas: semiconductors, biotech, pharmaceutical.

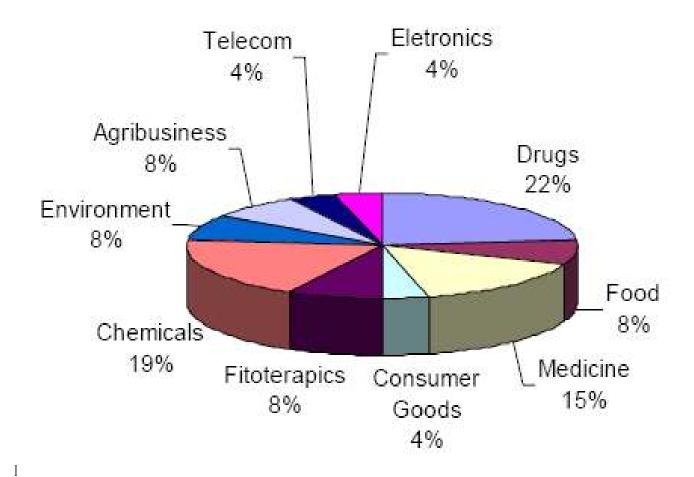
Inova Unicamp

In 3 years:

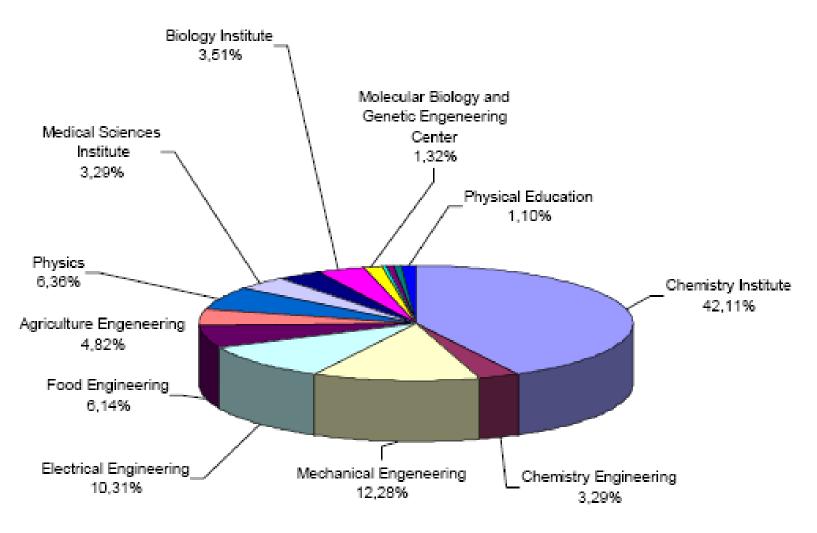
- 213 tech transfer agreements
- 56 licensed technologies (53 patents + 3 know-how)
- 237 patent applications
- 28 trademarks
- 28 software
- 12 "graduated" start-ups
- Contact with 10.000+ institutions

Inova Unicamp

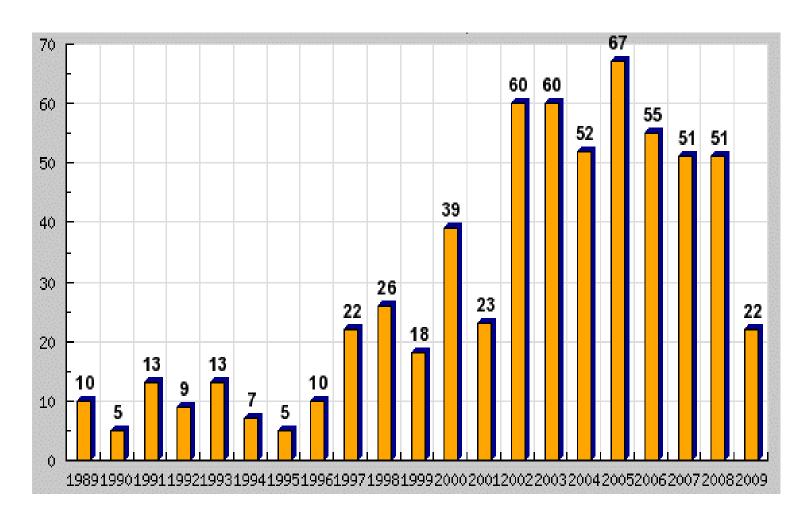
Licensing Agreements / Industry



Patent Application Distribution by Unicamp Research Units



UNICAMP Patent Applications: 1989-2009



Summary of indicators Unicamp

(per year, type of intellectual property rights)

2004	2005	2006	2007
10	12	02	10
6,6	9,0	11,6	4,8
46	41	75	30
16	28	30	40
ND	65	214	450
51	65	55	46
03	01	01	02
22	17	02	08
51	65	75	90
12	13	06	07
ND	ND	03	04
2004	2005	2006	2007
46	41	75	24
6,616	9,009	11,610	8,011
	10 6,6 46 16 ND 51 03 22 51 12 ND 2004 46	10 12 6,6 9,0 46 41 16 28 ND 65 51 65 03 01 22 17 51 65 12 13 ND ND 2004 2005 46 41	10 12 02 6,6 9,0 11,6 46 41 75 16 28 30 ND 65 214 51 65 55 03 01 01 22 17 02 51 65 75 12 13 06 ND ND 03 2004 2005 2006 46 41 75

Summary of indicators Unicamp

(per year, type of intellectual property rights)

Support to Infant Technology-based Firms	2004	2005	2006	2007
Firms Graduated from Incamp	0	8	1	02
Firms Incubated at Incamp	10	12	11	10
Pre-Incubation of Projects	0	04	08	06
Institutional Relationship	2004	2005	2006	2007
Events and Courses Performed by Inoya Unicamp	13	11	19	11
Exhibitions Organized by Inova Unicamp	00	01	04	00
Presentations in Events	29	38	67	40
Events, Courses and Exhibitions with Attendees from Inova Unicamp	28	29	62	30
Visitations to <u>Inova Unicamp</u>	ND	ND	16	03
Resources	2004	2005	2006	2007
External Revenues Performed – Inova	ND	446	1,009	853
Number of Employees Linked to Ingva Unicamp (Total in December)	32	49	48	52

How to transfer the knowledge

From research to licensing

Innovation chain: Investments 1:10:100

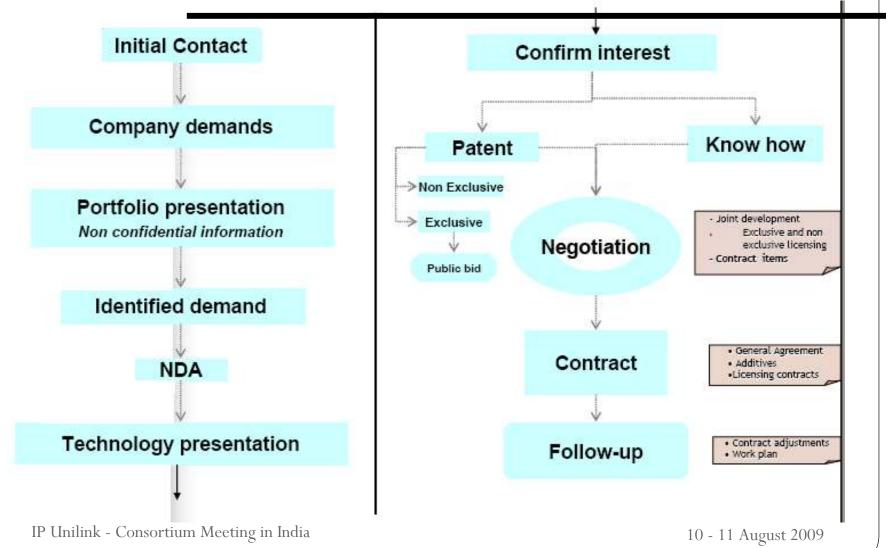
Academic Production

Production Sector

- DiscoveryInvention
- mvendon
- Engineering
- Production
- Marketing and Sales
- Technical Assistance



How to form a partnership Inova Unicamp



Deadlines

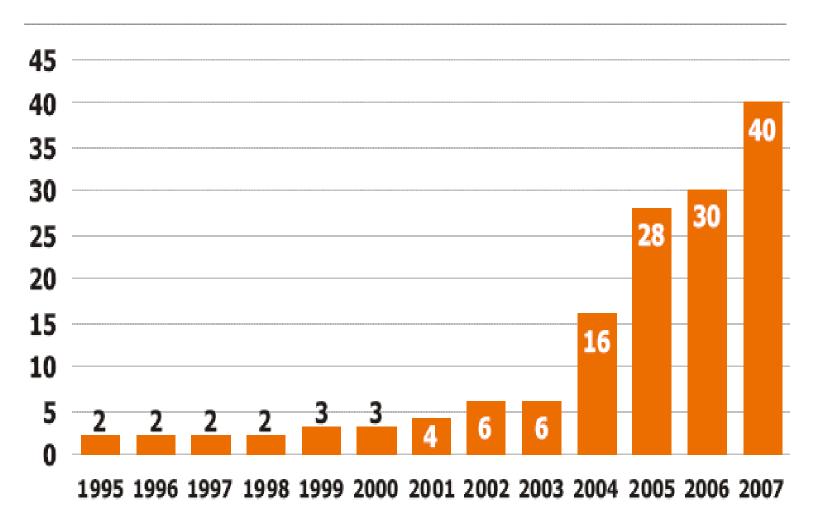
Innovation Laboratories

• Places where private companies can develop their collaborative projects inside the university

Examples:

- Future LIB –Laboratory of Biofuels;
- InovaSoft.

Contracts Licensing Technology Current



UNICAMP

Company Incubation

Spin-offs of technologies (future products and services)

INCAMP

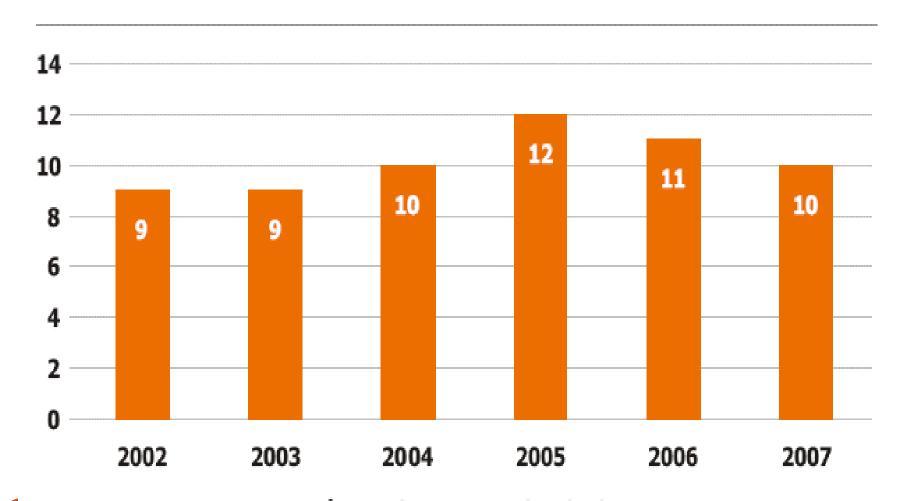








Number Incubeted Business



UNICAMP VENTURES



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Thank you for your attention!

INOVA/NEAA/Unicamp

Prof. Dr. Bastiaan P. Reydon

basrey@eco.unicamp.br

bastiaanreydon@yahoo.com.br