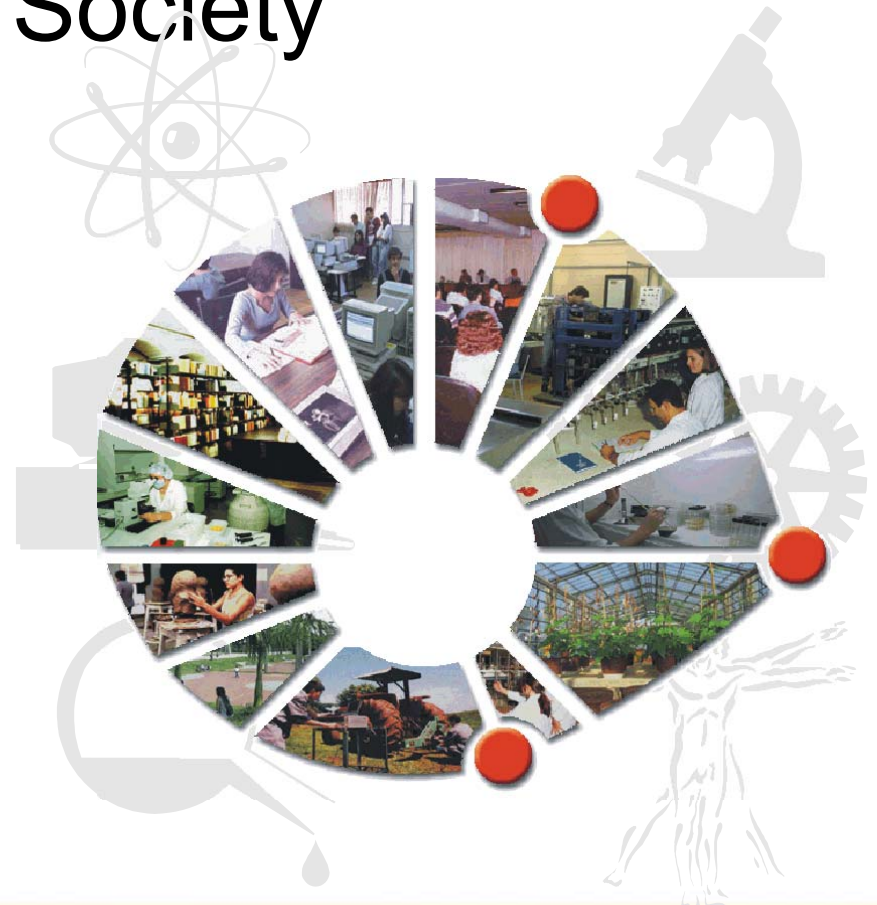


Turning Science into Innovation to Benefit Society

**Presentation at the IP
UniLink Project Meeting**
Campinas, March 26th ,
2009



Agenda

- UNICAMP Highlights
- Research excellence, patentability and Technology Transfer
- Inova TTO Experience
- Partners Network
- Cases
- IP Portfolio
- Technology Investigation Program
- Pre-incubation Program
- Technology based Start-up Company Incubator
- Innovation Laboratories
- Inova in the Public Sector



UNICAMP, 2007

- Founded 1966
- 32.000 students
 - 16.984 undergraduates
 - 15.196 graduates
- 20 schools and institutes
 - 58 undergraduate courses
 - 127 post-graduate courses
- 1.743 Faculty - 96% with a PhD
 - Full time: 88
 - 24hs/week 9,6%
 - Part time: 2,21%
- Non-faculty – 7817
- Total Budget around US\$ 565 mi (State SP tax funds US\$ 470 mi; Public and Private Research/Services funding US\$ 95 mi)





Unicamp Highlights (Brazil)

- 12% to 15% of national research
- 10% of PhDs
- University with the highest number of top rated PhD and MSc programs
- Highest number of patents filed in Brazil from 1999 on
- Deeply concerned about transferring knowledge to society



Inova Unicamp TTO

Jul/2003 – Unicamp created Inova to facilitate the interaction and Technology Transfer with the Industry



“One-Stop Shop”

Inova Unicamp TLO

Inova is 5 years old¹

- 192 technology transfer agreements
- 39 technology licensing contracts
- 249 new patent deposits at INPI
- 19 new international deposits via PCT
- 35 new trademarks deposits
- 36 new software deposits
- 11 graduated start-up companies
- +US\$ 20 MM for Research Projects

¹This data refers to December 2007

Research excellence and patentability => synergy

Capes	Unity	Licensing¹	Patents
7	Chemistry Institute	8	204
7	Food Engineering Institute	5	34
7	Biology Institute	4	16
6	Mechanical Engineering Institute	4	59
5	Medical Sciences School	3	18
6	Chemical Engineering Institute	3	20
6	IT and Electrical Eng. Institute	4	50
5	Agriculture Engineering Institute	3	24

• Source: http://www.prpq.unicamp.br/curso_stricto.phtml Data from the year 2003 on

Robust Partners Network



UNICAMP



UNICAMP

Interaction University-Industry

- Contribution for the University:
 - Improvement in research and education
 - Challenges brought by the Society
 - Curricula and research themes update
 - Students apprentice and experience
 - Research funding
- Contribution for Industry:
 - Technology access
 - Innovation incentive
 - Talents formation
 - Cost and risk reduction in R&D

Case 1: Isoflavones

- 2 thesis;
 - 6 published papers;
 - 2 patents filled in Brazil and other countries;
 - 2 Licensing Agreements;
 - Transference of the knowledge generated at University: new products for existing society demand -> contributing for Economic and Social Development
- Specific Isoflavones for hormonal reposition
 - Fitoestrogen therapy

Advantages:

- Quicker absorption
- Isoflavon advantages:
 - Acts against cancer
 - Prevents breast cancer
 - Reduces LDL cholesterol
 - Fungicide
 - Anti-inflammatory
 - Anti-oxidant



STEVIA FARMA
INDUSTRIAL S/A

Case 2: Biodiesel

Description

- High performance catalyzer capable of transforming animal fat and vegetal olis into biodisel

Advantages

- 99% yield
- It does not leave residues as soap or emulsion

Case 3: Drug for Diabetes

Description

- Synthetic Drug for Diabetes Mellitus

No other drug found in the market has those two actions simultaneously

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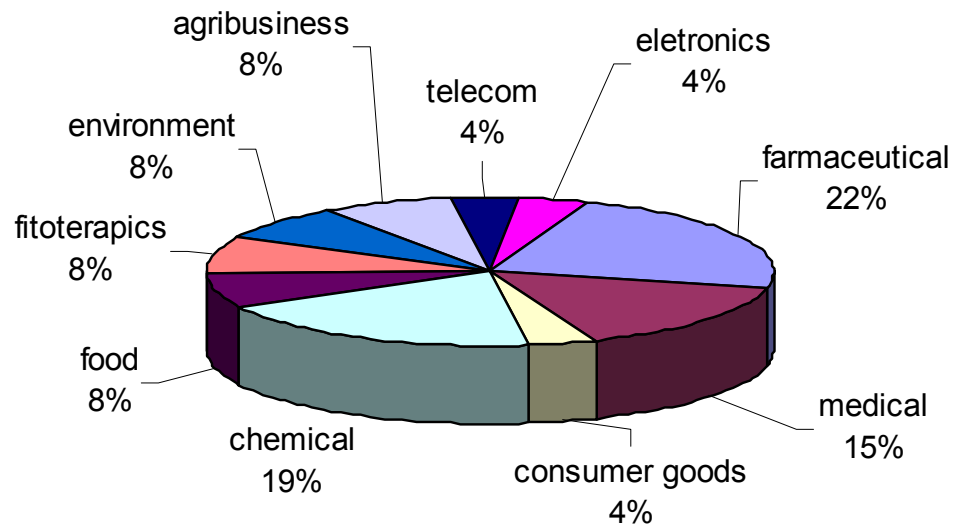
Advantages

It acts simultaneously:

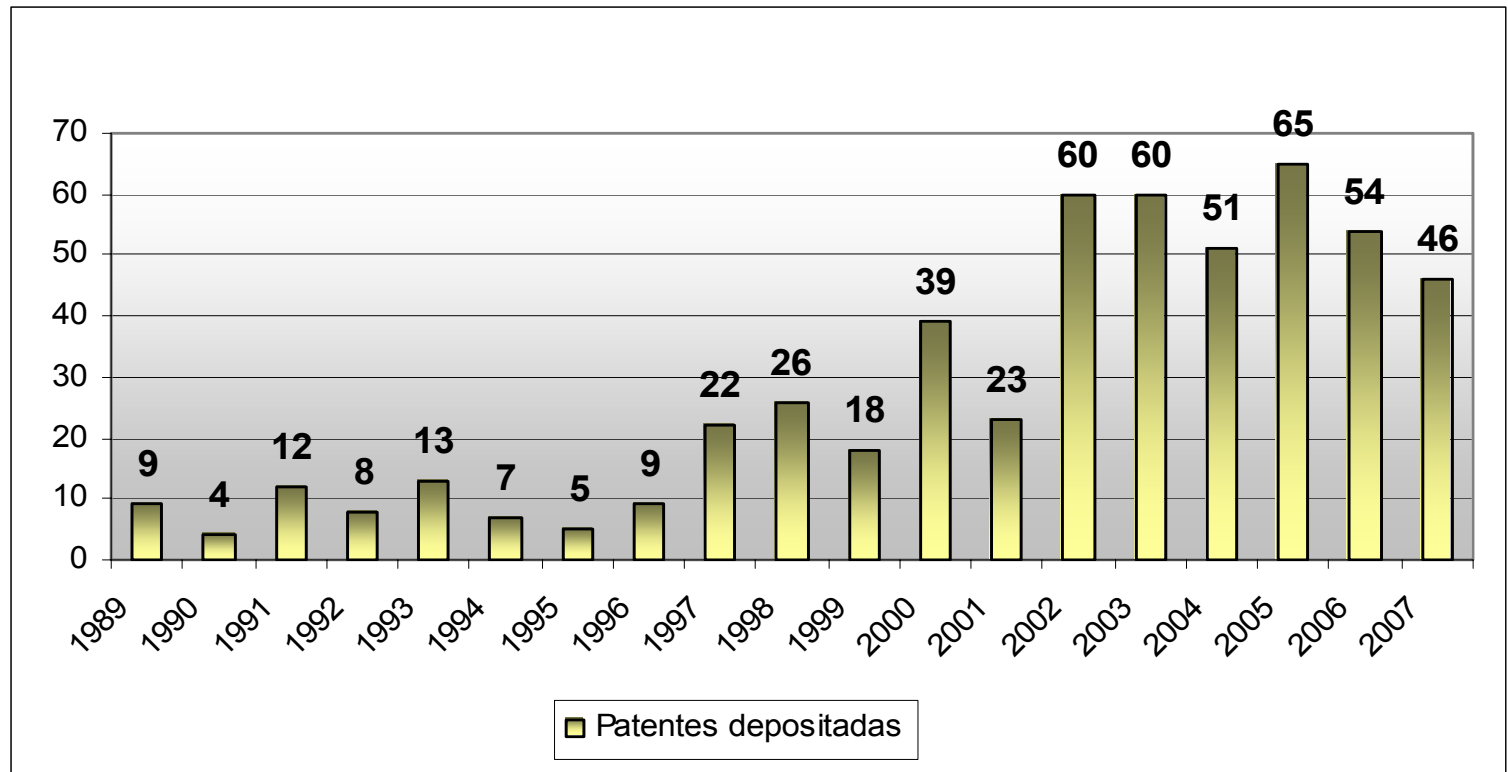
- Increasing the production of insulin
- Improving the action over the tissues

Inova Unicamp TTO

Licensing Agreements / Industry



Requested Patents by Unicamp



505 active patents at INPI

IP Portfolio: www.inova.unicamp.br

Catálogo de Patentes - Inova - UNICAMP - Microsoft Internet Explorer

Arquivo Editar Exibir Favoritos Ferramentas Ajuda

← Voltar → Pesquisar Favoritos Histórico

Catálogo de Patentes - Agência de Inovação - Unicamp

Consulta de Patentes

Clique [aqui](#) para ver todas as patentes cadastradas.

Busca por Áreas

Grupo : Produção Industrial

Sub-grupo : Medicina, Saúde e Nutrição

Autores / Inventores : (Separados por ' ; ')

Título :

Unidade : Selecione ...

Data de Protocolo : (DD.MM.AAAA) ou (AAAA)

Nº Protocolo :

Iniciar | Internet Explorer | Outlook | palest... | MALA... | Comp... | Micro... | Agen... | Catál... | 11:43

What else?



Technology Investigation Program

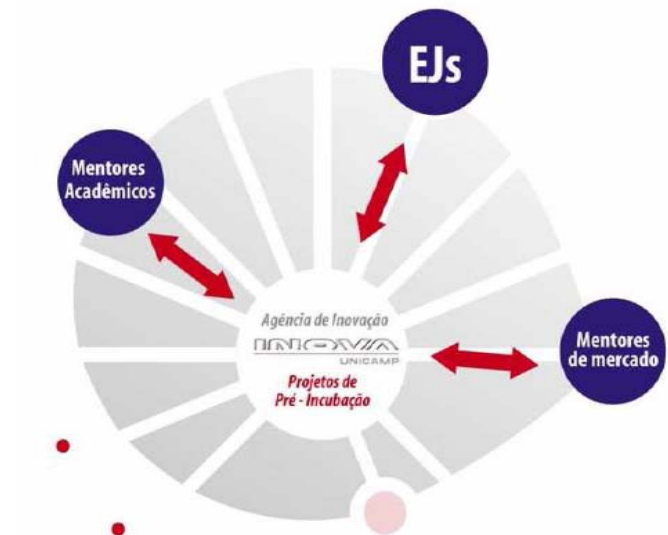
- Analysis before Technology Transfer efforts:
 - Technology status
 - Necessary investments and milestones
 - Market investigation
 - Which is the best model for technology transfer?
 - Legal aspects
- Made by university students (after training)
- 43 technologies analyzed until December 2007



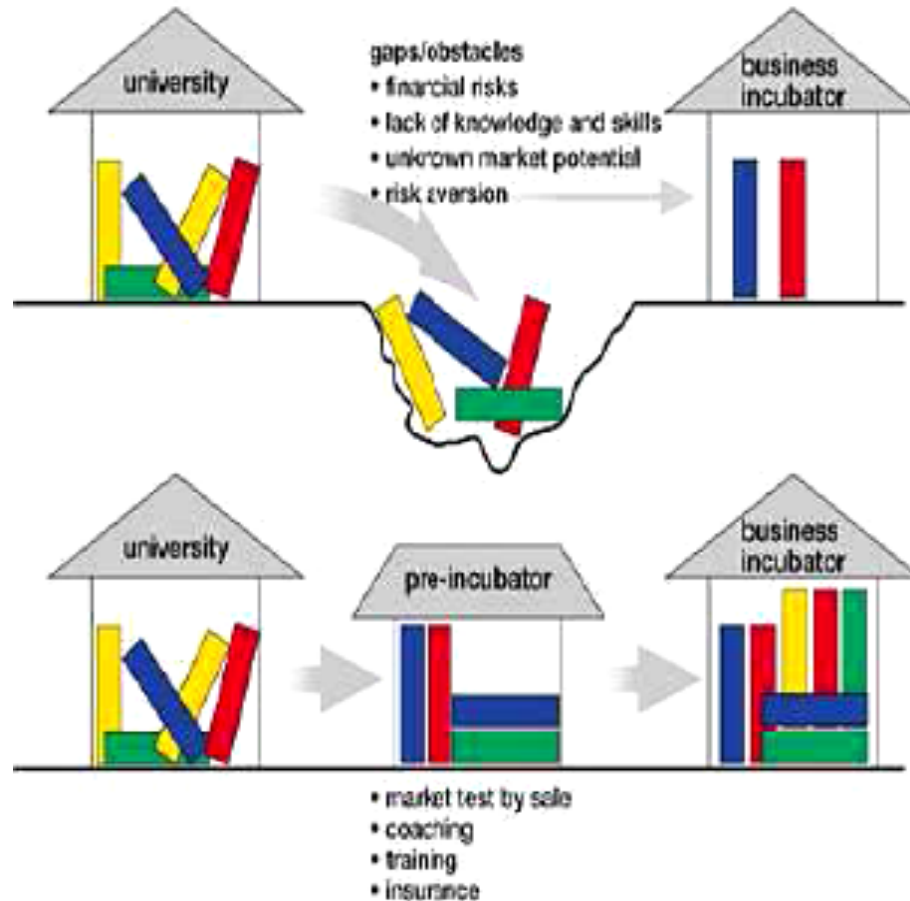
Pre-incubation of Projects

- Pre-incubation of University Researchers and Students projects
 - Pre-incubation prepares people and transforms ideas into business
- Better possibilities and preparation of entrepreneurs - future candidates for the incubator program

- Academic Mentors
- Business Mentors
- Junior Enterprises



Pre-incubation of Projects



Technology based Start-up Company Incubator - INCAMP

- Spin-offs of technologies (future products and services)



<http://www.incamp.unicamp.br/>



Functional and Modern Food – Focus on Brazilian Taste
(Instantaneous Rice, Bean and Soybean)



Genetic Engineering for Poultry Vaccines Development



Wind Energy Generators



Special Antibody Production

Innovation Laboratories

- Where private companies can develop their collaborative projects inside the university
- **Examples:**



- Center of Innovation on Software
- **(Future) LIB – Laboratory of Biofuels**

Inova in the Public Sector

- Bringing research results and inventions to public programs and services to benefit citizens
- Culture, education, IT, health, public management, environment, etc.



Thank You!

Inova Unicamp

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