

WIPO/IP/HEL/00/7

ORIGINAL:English

DATE:October2000



NATIONALBOARD OF PATENTS AND
REGISTRATION OF FINLAND



WORLD INTELLECTUAL
PROPERTY ORGANIZATION

**FORUM ON
CREATIVITY AND INVENTIONS – A BETTER FUTURE FOR
HUMANITY IN THE 21ST CENTURY**

organized by
the World Intellectual Property Organization (WIPO)
and
the National Board of Patents and Registration of Finland

in cooperation with
the Ministry of Trade and Industry of Finland,
the Ministry of Education, Science and Culture of Finland

and
the International Chamber of Commerce (ICC),
the International Federation of Inventors' Associations (IFIA),
the Confederation of Finnish Industry and Employers (TT),
the Finnish Inventors' National Federation (KEKE)

**Finlandia Hall
Helsinki, October 5 to 7, 2000**

CREATING (ESTABLISHING) A SUPPORTIVE ENVIRONMENT FOR THE USE AND
DEVELOPMENT OF INVENTIONS AS A SERVICE TO SOCIETY

*Document prepared by Mrs. Vanda Scartezini, National Secretary, Information
Technology Policy, Ministry of Science and Technology, Brasilia, Brazil*

INNOVATIONPOLICYINBRAZIL

1. In this presentation many aspects of the Brazilian Federal Government Policy will be discussed on innovation, including all aspects related to information technology.
2. Then nowadays reality will be covered along with the progress and future of Government strategies for human resources, university and research centers, incubators and role players. Our Internet development, investments and the information society program will also be highlighted in order to present an overview of the Brazilian situation relative to improving innovation and consequently your technological and social development.

[Slide presentation follows]



Brazilian Federal Government

Creating a Supportive Environment for the Use and Development of Inventions as a Service to Society

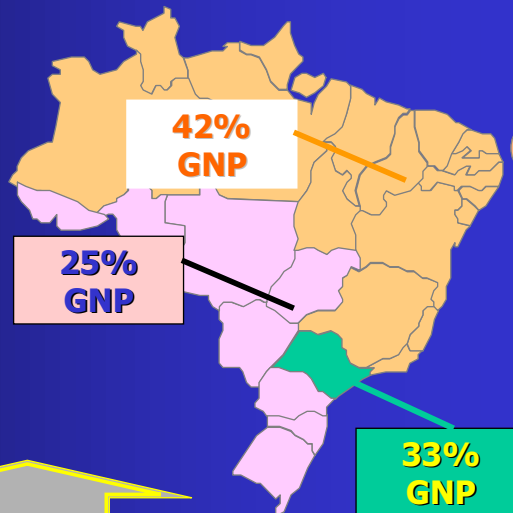
- Vanda Scartezini
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BRAZIL

160 million inhabitants

27 states + 1 Federal District

GNP - US\$ 600 BILLION



INFRASTRUCTURE

Telephone and data infrastructure

- Fixed Phones - 33,000,000 terminals (99 growth = 25%)
- Mobile Phones - 19,000,000 terminals (99 growth= 83%)

• Optical Fiber - 3.4 US\$ billion investment

• Advanced payment for telephone:

1997= 1,117US ➔ 1999=30US\$

• Monthly bill:

1997= 52US\$ ➔ 1999= 31US\$

• Digitalization:

1997=68% ➔ 1999=87%

• Direct jobs:

1997 =86K ➔ 1999=190K

Computer Infrastructure and IT Production

Telecom local Production
2000: > US\$ 11 billions

PCs production
>2 millions /year

PCs in use :
11 millions

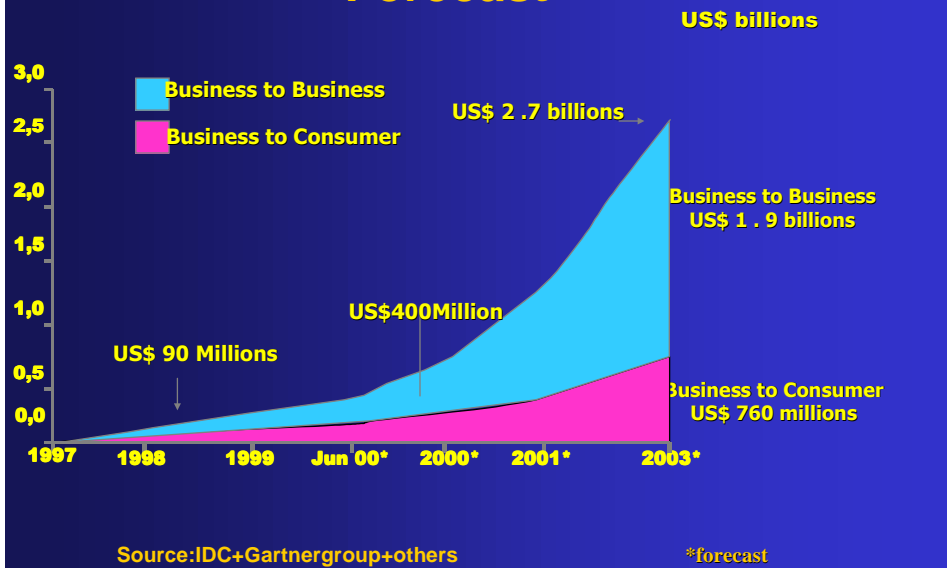
IT Total Local Production
2000: > US\$ 17 billions

62% homes with computers
87% homes with TV

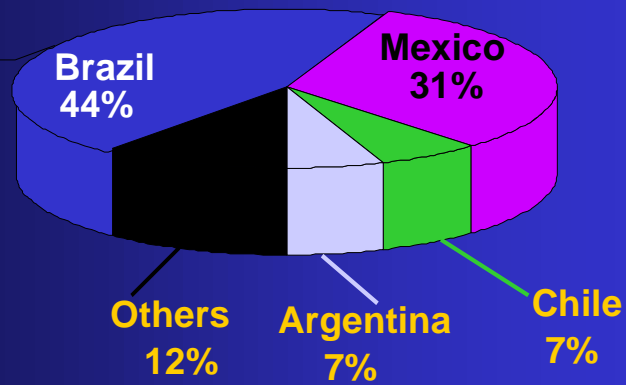
IT Total Revenue 2000:
> US\$ 56.9 billions

source : IDC and others

E-commerce Brazilian Market Forecast



E-commerce users in Latin America



source: idc & others

- **Strategic Alliance for Innovation Promotion Program**

- Promote interchange among associations

- **Basic Technologies Capacitation Program**

- Create an information data base to enhance services availability through Mercosur and LA

- **Technological Research Excellence Project**

- Improve R&D centers performance on management

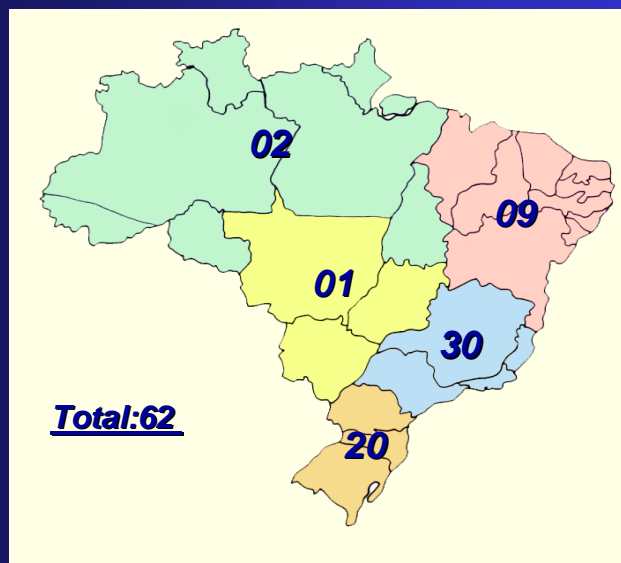
- **Programa ETS - Set up support for sectorial technological entities**

- Promote new associations by segment

- **Law 8661 - reduce Income tax for R&D**

- have improves % private \$ on R&D 20% to 30%

Parks and Technological Incubators



R&D Funds for Development

<i>New Funds</i>	2001-2005 by year
• Energy	US\$ 330 million
• Hydric Resources	US\$ 71 million
• Mineral Resources	US\$ 12 million
• Telecommunication	US\$ 520 million
• Land Transportation	US\$ 70 million
• Space	US\$ 47 million
• Promotion and Innovation	US\$ 150 million
• Petroleum	US\$ 423 million
• Other Energy Funds	US\$ 320 million
Total	US\$ 1,95 billion

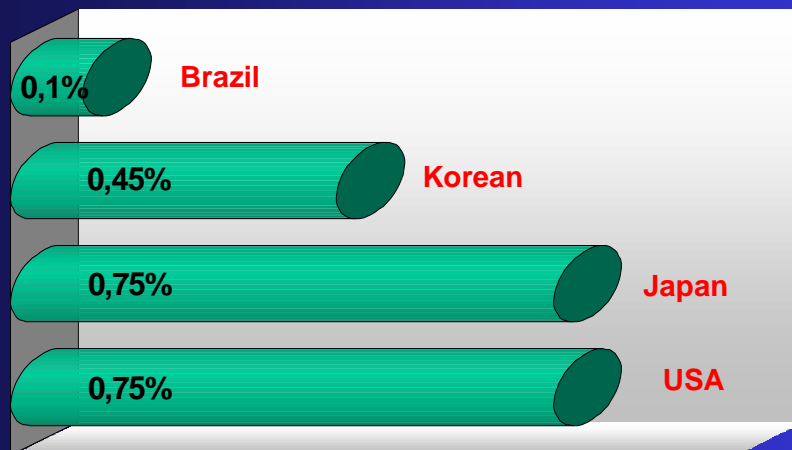
Funds : Expected Results

- R&D Financing for new technologies
- Human Resources
- Employment
- Infra-Structure recovery on Universities and Research Centers - 20% of all funds (30% to NE;N and MW regions)

Technological Innovation Awards in Brazil

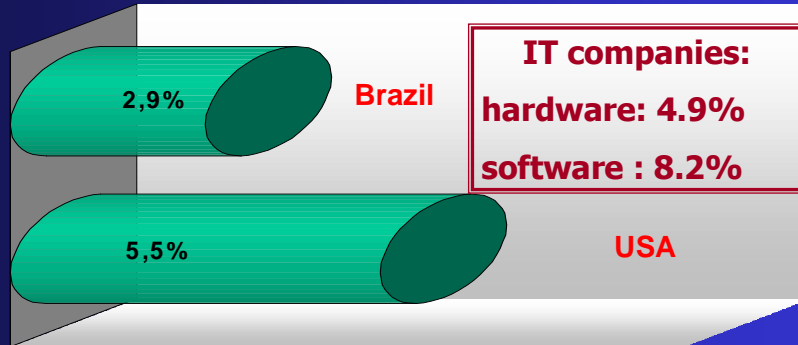
- ANPROTEC2000Award
- FINEPofTechnologicalInnovation
 - regionalandnational
- EcodesignAward
 - MinasStateAwardforTechnological Innovation
- Oswaldo CruzAwardforresearch(social health)
- IBGMawardforjewelryDesign2000

Percent of total work force working in R&D



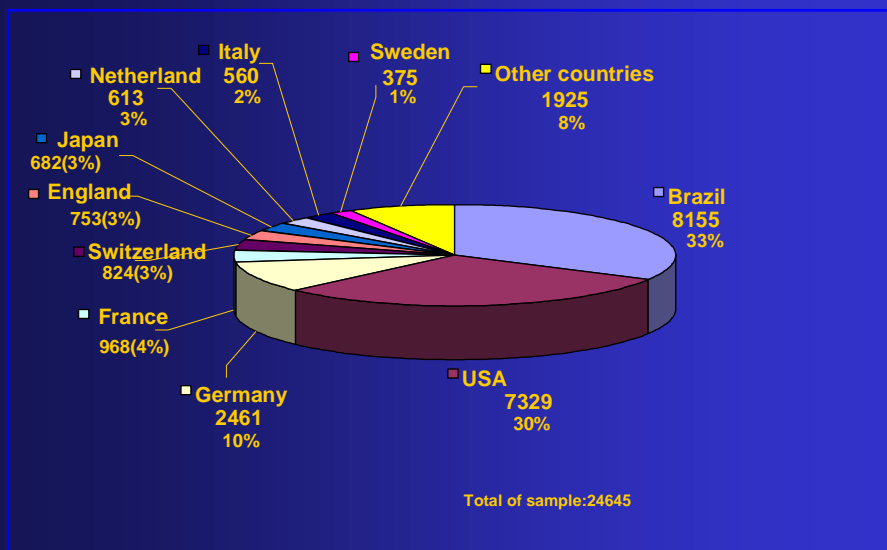
Source: ANPEI- Associação Nacional de P, D & E das Empresas Inovadoras.

Percent of revenue applied by companies in Universities researchs & development

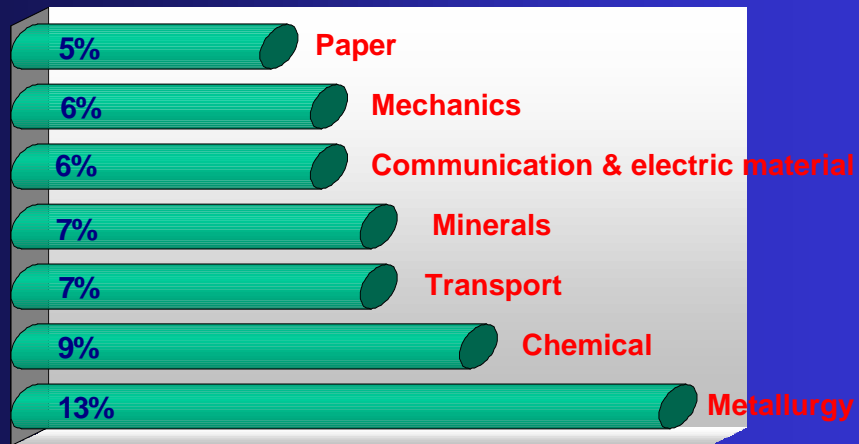


Source: ANPEI- Associação Nacional de P, D & E das Empresas Inovadoras.

Patents Deposited & Published in Brazil 92-99

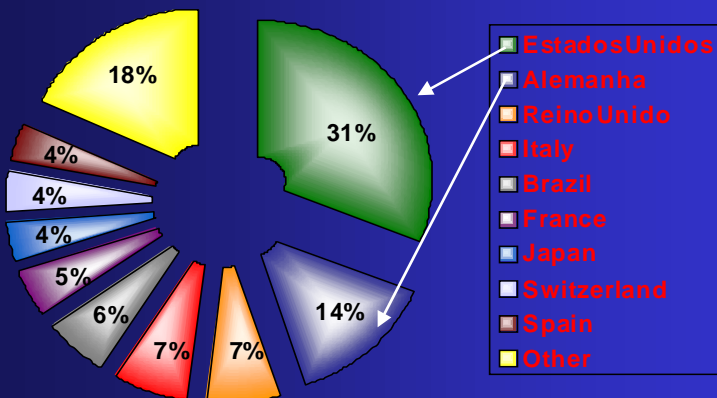


Transference of Technology



Fonte: INPI-Instituto Nacional de Propriedade Intelectual.

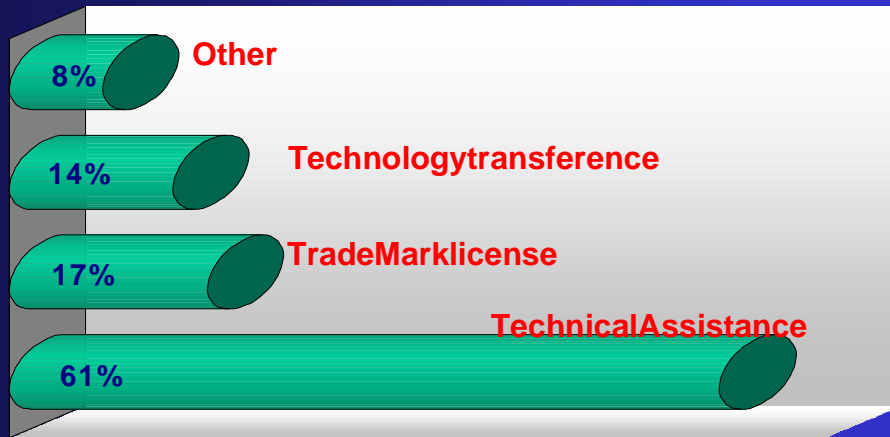
Transference of Technology by origin 1999



Source: INPI-Instituto Nacional de Propriedade Intelectual.

Transference of Technology

Kind of contract- 1999



Source: INPI-Instituto Nacional de Propriedade Intelectual.

National Program for Information Technology

- Information Society Program
- Software Development
- IC Design

Past Achievements

- **Brazilian Research Network (started 1988)**
- **Multiinstitutional Research-PROTEM (started 1990)**
- ***Software* for Export - SOFTEX (started 1993)**
- **High - Performance Computing (started 1991)**
- **Informatics Law for production (started 1991)**
- **Telecom Privatization Program (started 1997)**

Information Society Program

- **USD\$ 1.7 billion budget - 4 years program
Brazilian Science and Technology Ministry -
MCT to provide local capacity on IT**
 - ↓ **Internet II**
 - ↓ **Education**
 - ↓ **Health**
 - ↓ **Natural Resources**
 - ↓ **Agriculture**
 - ↓ **Local Content**
 - ↓ **e - Commerce**

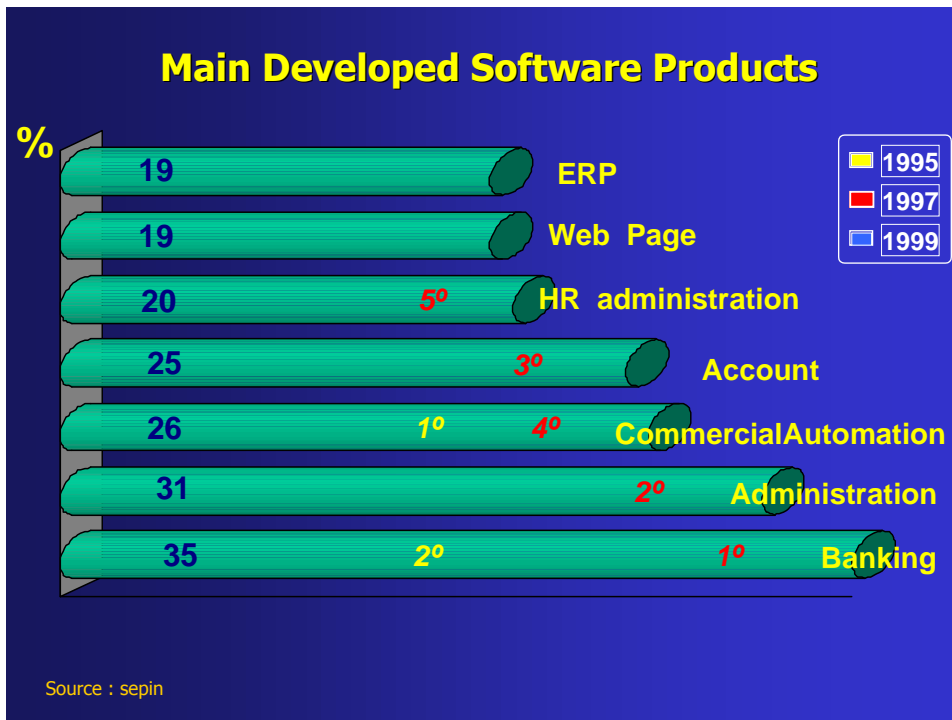
National Research Network-RNP1



Source RNP

Local Software Development

- **3.47 billion US\$ -2000**
- **2,500 companies**
- **63% SME (small & micro companies)**
- **73% jobs =SME**
- **90% R&D use :> 4 prevent & 5 detection errors systems**
- **1350 Ph.D and MS working in SME**
- **Almost no exportation (US\$ 100 millions)**



(<http://www.receita.fazenda.gov.br>)
RECEITANET - income tax online application
1997 : 600.000 applied
2000 : 11 million applied!!

On-Line Vote

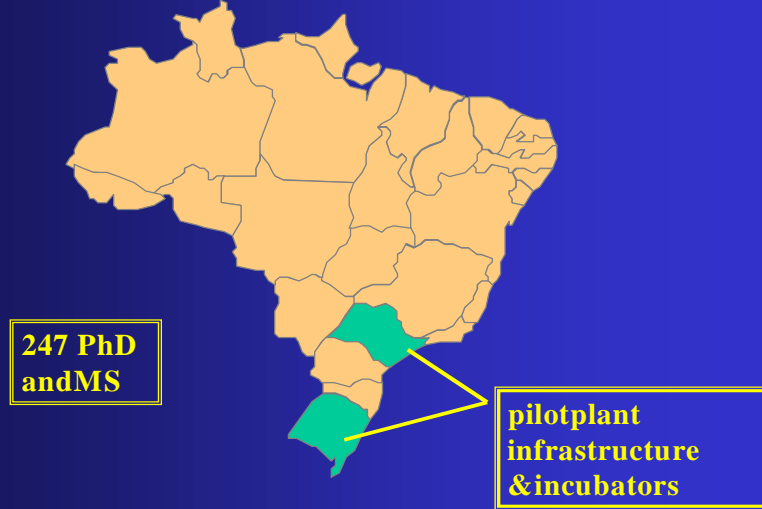
Last sunday 108.5 million persons voted on line!

5561 municipalities

all the results ended by same night

<<<1% failed

Microelectronics



- **Human resources focus**

Social objective

- **Use IT to reduce the social gap among classes**
- **Use innovation to enhance the development and employment**

Brazilian Association on Technological Entities

- **ABIPTI–Brazilian Association for technological Research**
- **ANPEI–Brazilian Association for development of innovation enterprises**
- **ANPROTEC–national Association for promoted advanced technologies**

available for download

<http://www.mct.gov.br/sepin>

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