

**Technology Park of São Paulo –  
Building up a Model to Metropolitan Regions of São Paulo State**

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**Abstract:** This paper is based on actions that have been developed by the authors to contribute to the public policies of the S&T and Economic Development Bureau of São Paulo State (SCTDE), to face the regional impacts and challenges of the new conditions due to the globalization of markets. The SCTDE Bureau concentrates the efforts on the following matters: to create new conditions to social and economic development of São Paulo State; to stimulate the local innovation system in middle and highly population density regions of São Paulo (focalizing the metropolitan regions of São Paulo state); to stimulate and attract new businesses, opening up the academic institutions and research centers to regional society.

To answer these challenges it has been considered the development of an institutional structure to optimize the university or research center/business co-operation – the model of a Technology Park. This model will be applied to the São Paulo Technology Park, taking advantage of the structure of the University of São Paulo (USP) and other Research Centers (as IPEN and IPT) established in the *campus*.

**Keywords:** science parks, technology parks, metropolitan regions development, world mega cities, incubator centers.

**Introduction - Regional Characteristics**

The São Paulo State has three metropolitan regions: the “great” São Paulo region, the *Baixada Santista* region (a region lying along the coast) and the *Campinas* region (see Figure 1). Typical figures from these regions are shown in Table 1.

The figures reflect that the three metropolitan regions concentrate about 58.3% of the whole population of the São Paulo State and about 13% of the whole population of Brazil. Other important figure is the GDP of these three regions: about 63.5% of the São Paulo State GDP and approximately a quarter of the national GDP.

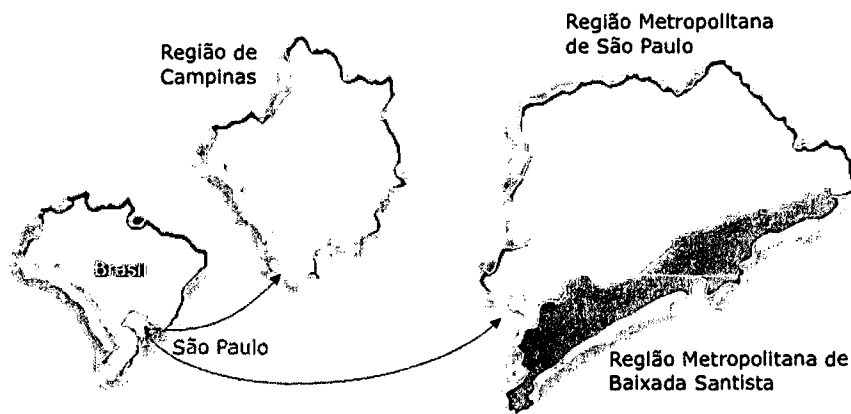
**Table 1: Regional Characteristics – the Metropolitan Regions of São Paulo State**

Region	Population (1999)	GDP (1997) US\$ billion	GDP per capita US\$
"Great" São Paulo	17 218 461	147,0	8,758
Baixada Santista	1 368 051	9,3	7,015
Campinas	2 151 543	24,5	12,000
Total	20 738 055	180,8	8,921
São Paulo State	35 582 772	284,6	8,232
Brazil	167 723 983	804,2	5,038

Data from: EMPLASA – Empresa Metropolitana de Planejamento da Grande São Paulo S.A. and IBGE/2000

São Paulo is one of the five global megacities of Latin America. As well known, the world megacities characteristics are: more than 10 million of inhabitants (trend analysis: the megacities may reach more than 20 million of inhabitants in 2015). To be a global megacity, more important than the population concentration are the local economic activities. In São Paulo, these activities are linked to highly intensive knowledge and technological activities, forming dense networks.

Using the ternary models considered metaphor for local innovative systems, the Sabato Triangle and the Triple Helix, in São Paulo city, in the South-West region, we can find the three organization players: the infra-structure for S&T&I development (more than 5000 researchers in University of São Paulo and three research centers – IPEN, IPT and Butantan); the most important financial support for S&T activities foundation of the country (FAPESP) is located very near to the *campus*; and a new kind of occupation of the city spaces, focalizing the South and South-West regions, where old industrial facilities are being occupied by great corporations, mainly from technological and pharmaceutical sectors (see Figure 2).

**Figure 1: Metropolitan Regions of São Paulo State - Brazil**



S&T&I, developing activities including research and development, production, sales and services, preserving, otherwise, an academic involvement with the *campus* ambient.

### The CIETEC – Incubator Center for Technological Enterprises

Installed in the biggest research center in Brazil, located in *São Paulo* city, the CIETEC points to a new direction for the entrepreneurial development in *São Paulo* State. At CIETEC, 53 companies (associated or residents companies), in addition to their own researchers' expertise, may count on researchers and technical individuals from the research centers and laboratories of the campus (see Table 2).

The CIETEC's mainly areas of incubation are: instrumentation, biomedicine and biotechnology, laser applications, chemicals, new materials, information technology, software applications, environment and nuclear technical applications. In addition to physical infra-structure and administrative support, CIETEC also provides other services like: consulting in entrepreneurial management and marketing; support to participate in trade fairs; courses especially prepared for resident companies; detection of needs for resident companies; interaction with the research institutions; interface between venture capital and projects under development.

By this project, the Government of the State of *São Paulo* intends to stimulate quality gains and competitiveness by incorporating technology to the productive process of the micro, small and medium-size companies, which stand for great employment generators.

**Table 2: Number of residents and associated companies at CIETEC and modalities of incubation**

Modality	Actual number of companies (2001)	Next Step (2002)	Total number of modules
Pre-incubation	8	21	29
Resident companies	20	21	41
Resident companies - software	11	16	27
Associated companies (no residents)	14	20	34
Total	53	78	131

### Conclusion: The Public Policies Project - Perspectives

The Technology Park of *São Paulo* project is being partially supported by FAPESP (The State of *São Paulo* Research Foundation) in its Public Policies Research Program (research projects developed in partnership with public and non-governmental organizations; see <http://www.fapesp.br>). The State of *São Paulo*, as established by its constitution, allocates 1% of its total tax revenue to FAPESP, for the funding of scientific and technological research in all areas of Knowledge. The FAPESP is an autonomous body and works strictly on a peer review basis. To achieve its goals, the FAPESP maintains regular and special programs of research grants and fellowships.

The Public Policies Project – Technology Park of *São Paulo* is being developed in two phases: the first phase has recently ended and one of the most important results is:

- it has been identified the best practices and results of the national experiences selected and analysed during 2001 ( these national experiences are localized in *Porto Alegre, Rio Grande do Sul State; Fortaleza, Ceará State; Recife, Pernambuco State; Rio de Janeiro; Londrina, Paraná State; Campinas, São Paulo State; São Leopoldo, Rio Grande do Sul State*).

The Second Phase of the Project has started this year and has a two years calendar to be executed. In this phase, the main goals are:

- to identify international best practices for metropolitan models of scientific and technological parks;
- to develop the full model (PhD thesis) for the Technology Park of *São Paulo*;
- to organize two seminars to discuss the models and experiences for metropolitan scientific and technology parks.

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**PALAVRAS CHAVES PARA IDENTIFICAR O TRABALHO:**

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Science Park; Technology Park; innovation habitats, metropolitan regions.

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