

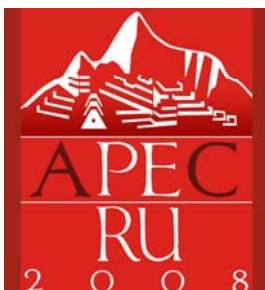


**Asia-Pacific
Economic Cooperation**

2008/ASCC/006a

The knowledge based society in Asia and Latin America

Purpose: Information
Submitted by: Mexico



**APEC Study Centres Consortium Conference
Piura, Peru
19-21 June 2008**

THE KNOWLEDGE BASED SOCIETY IN ASIA AND LATIN AMERICA

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Research Problem

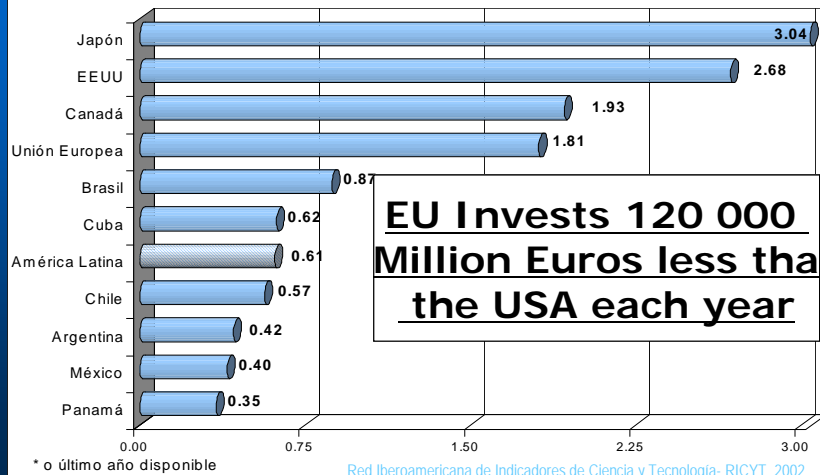
- In which degree the Asian and Latin American economies are integrated to the KBS?

- Some interesting answers:
 - The International Organization Indicators.
 - The Public Policies Analysis
 - The Intellectual Property Patterns System
 - The APEC "Principles for Technology Choise Pathfinder"
 - The National and Local Systems of Innovation.

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INVESTMENT IN R&D GNP %

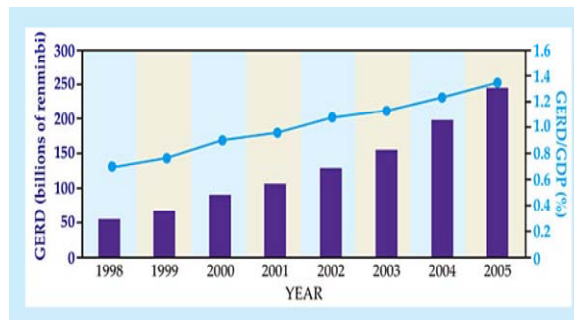


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PRCH, Gross Investment in R&D 1998-2005

Inversión bruta en I&D



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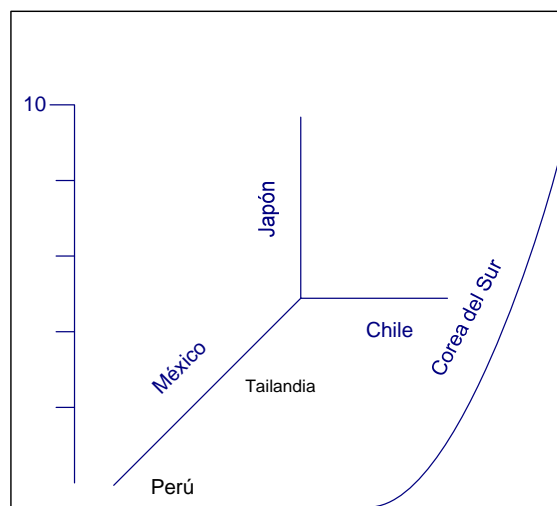
High or low investment in R&D?

- In conclusion, the investment towards the future is greater in the Asian economies than in the Latin Americans which they must solve urgent problems related to the poverty and the social cost. Low economic growth is reflected in the "cut" to the activities of science and technology, the opposite happens in the case of the People's Republic of China, in which the growth in the Gross National Product is reflected in the investment in Investigation and Development.

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Compared Economic growth in Selected Economies, members of APEC, 2005.



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Comparison of Public Innovation Policies in selected countries of Latin America and Asia.

- The relation between public and private sector.
- The degree of geographical centralization
- The need of State interventionism
- In Latin American the public policies are general and abstract.

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The role of Intellectual Property Rights

- The logic contained in the Patents System agrees with the KBS since it confers protection and market value at the intangible goods, the human capital and the invention with the aim to favour the technological innovation and also the consumers.

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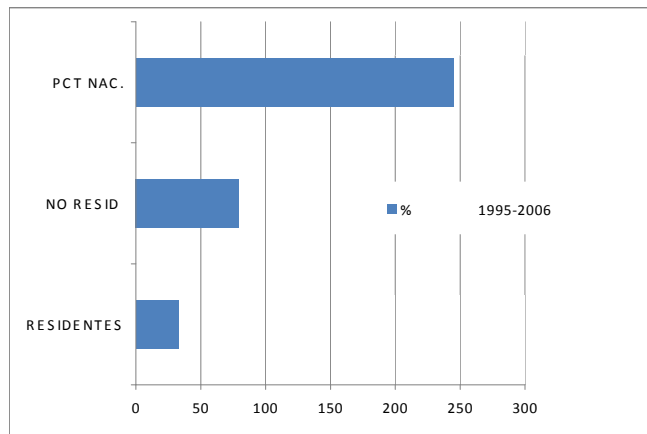
The role of Intellectual Property Rights

- The more accepted ways to measure the patents is: a) the number of patents registered by residents, b) the registered by non residents, c) the patents registered using the Patents Convention Treaty (PCT) mechanism d) the number of patents registered in the offices of the United States of America and the European Union.

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Rate of growth of the patent registered by category, in the APEC region 1995 – 2006

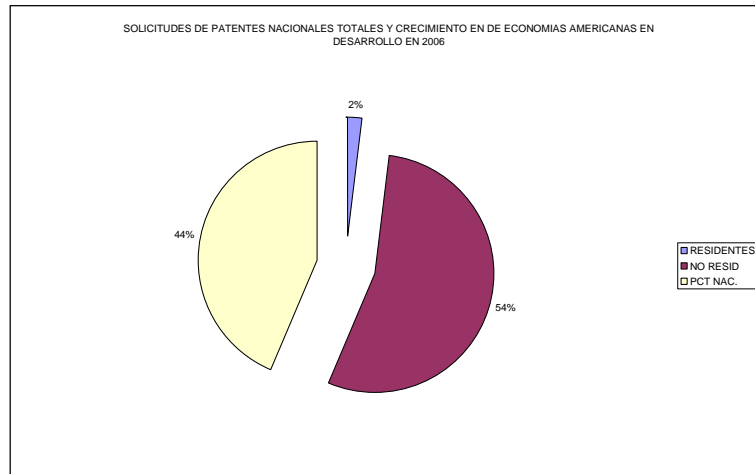


Source: World Intellectual Property Organization WIPO.

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Rate of growth of patents requested by residents in Latin America 2006



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APEC Principles for Technology Choice Pathfinder

- APEC Model Guidelines for Effective Public Awareness Campaigns on Intellectual Property Rights:
 - Intellectual property (IP) has emerged as a critical component of trade, economic growth and sustained development across the Asia-Pacific region and around the world. Protecting IP rights (IPR) and increasing awareness and understanding of "IPR systems" (this relates to creation, protection, enforcement and commercialization of IP) are key to promoting investment, spurring innovation, and generating beneficial economic returns.

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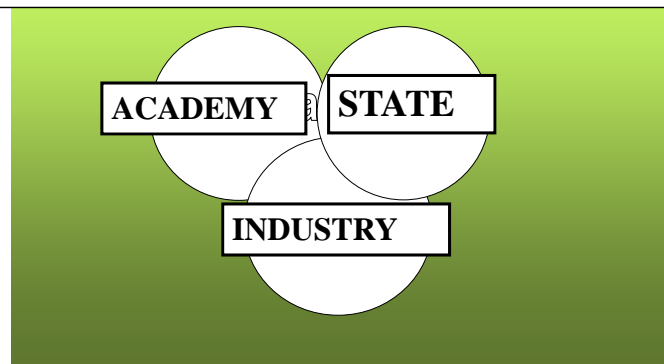
APEC Principles for Technology Choice Pathfinder

- From the point of view of the KBS, the macro-analyses must be complemented with the micro-analyses, understanding by such, the institutions, the organizations, the social practices, the game of the social agents. In this sense we are using the concept of National and Local Innovation Systems.

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Diagram of National Innovation System



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General Conclusión

- We used in our analysis two types of variables: macro variables as the national indicators in R&D, innovation public policies and the system of patents and micro variables, as the national and local systems of innovation.
- In this approach we discovered that Asia and Latin America both look to get up on the Society of the Knowledge and the Innovation, but taking different ways.
- The Asian economies seem worried about the middle term future. On the contrary, lower economic growth of Latin American economies predisposes them to fight against the poverty.

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General Conclusión

- The public policies of Asia contemplate external markets, increase the roll of private sector, spurs new branches and new products. In Latin America public policies depend on the national states, are conceived like intentions more than as concrete actions.
- The technology produced in Latin America is in reduction as it shows the case of patents asked for by nationals, whereas in Asia the foreign and national requested are combined.
- Finally, the local innovation system are more successfully in Asia as show the relations between University-Enterprise and Government.

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