



# **Building Global Bridges SLA 2008**

**National Technical Information Service**

# SLA 2008 – Building Global Bridges

- National Technical Information Service (NTIS), Technology Administration, U.S. Department of Commerce
- Established 1945 to collect and provide permanent access to nation's scientific, technical, engineering and business information and to collect related international information

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## NTIS

- Facilitates perpetual public access to Federal information in various formats
- Assists federal agency compliance with transferring their government information to NTIS under the American Technology Pre-eminence Act (ATPA)
  - ATPA Requires Federal Agencies to transfer their Scientific, Technical, and Engineering Information (STEI) to the National Technical Information Service
- Develops bibliographic records to aid findability
- Maintains a permanent repository of unclassified scientific, technical, engineering, and business information
- Collects and disseminates information worldwide
- Provides customized information services to other agencies



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- NTIS receives Over 50,000 New Information Products Annually
  - Federally funded and/or conducted work
  - Related international information
  - Unclassified
  - Mostly non-copyrighted
  - U. S. Government Reports
  - International Technical Reports
  - Conference Proceedings and Journal Articles
  - Books
  - Non Print/Multimedia Products
  - Private Sector Publications

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## Subject Matter Covered

- Aeronautics
- Agriculture
- Biomedical
- Chemistry
- Education
- Engineering
- Environmental
- Geology
- Mathematics
- Medical
- Physics
- Social Sciences
- Transportation
- And many more

## Government Agencies Covered

- Agriculture
- Commerce
- Defense
- Education
- Energy
- EPA
- Health & Human Services
- Homeland Security
- Interior
- NASA
- NSF
- Transportation
- And many more



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- **NTIS Annually Distributes**
  - Over a Million Information Products in Physical Media (paper, fiche, CD/DVD and Multimedia)
  - Tens of Millions of information products online
- **To Customers**
  - Over 50,000 worldwide
  - Libraries and Universities
  - U.S. business and industry
  - International customers



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## Coming Soon - National Technical Reports Library

- Online access to bibliographic records and full text reports
- Subscription basis
- Multiple simultaneous users
- Subject collections or complete collection

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## International Outreach

- Acquisition
  - Selected technical subjects, particularly in the energy field
  - Selected related news
- Dissemination
  - Bibliographic Database
  - Selected Research Topics
    - Subscription based on user profile
    - Push new items bi-weekly
    - CD and Microfiche
  - WNC
    - Copyright clearance
    - Distribution daily
- Customers
  - Academic and Business
  - Reseller and Direct
  - China, India, Europe

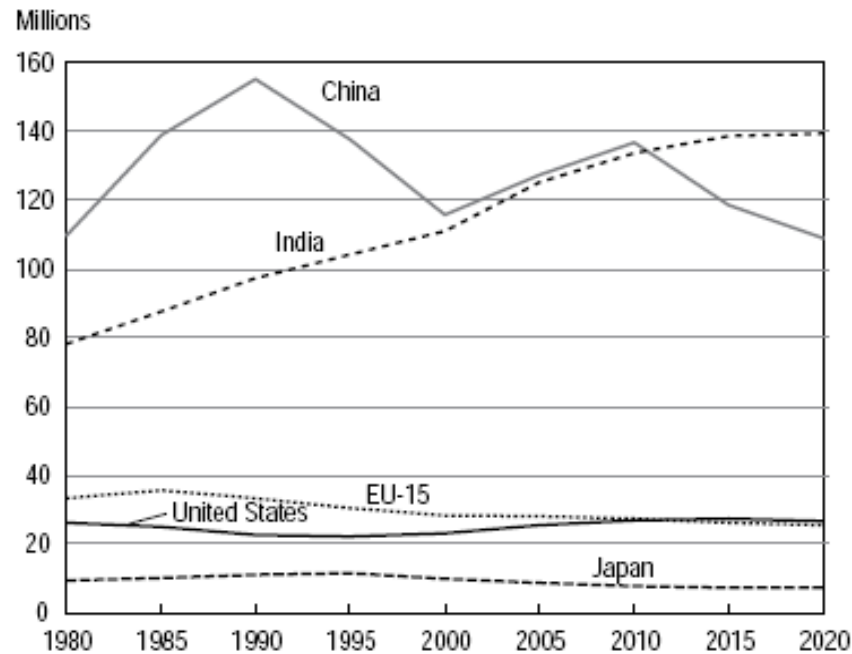
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## Trends in sources of technical information – the rise of Asia as a source

From the National Science Foundation, “Asia’s Rising Science and Technology Strength, Comparative Indicators for Asia, the European Union, and the United States”, May 2007

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FIGURE 1. Population ages 18–23 years, by selected country and region:  
1980–2020



EU = European Union

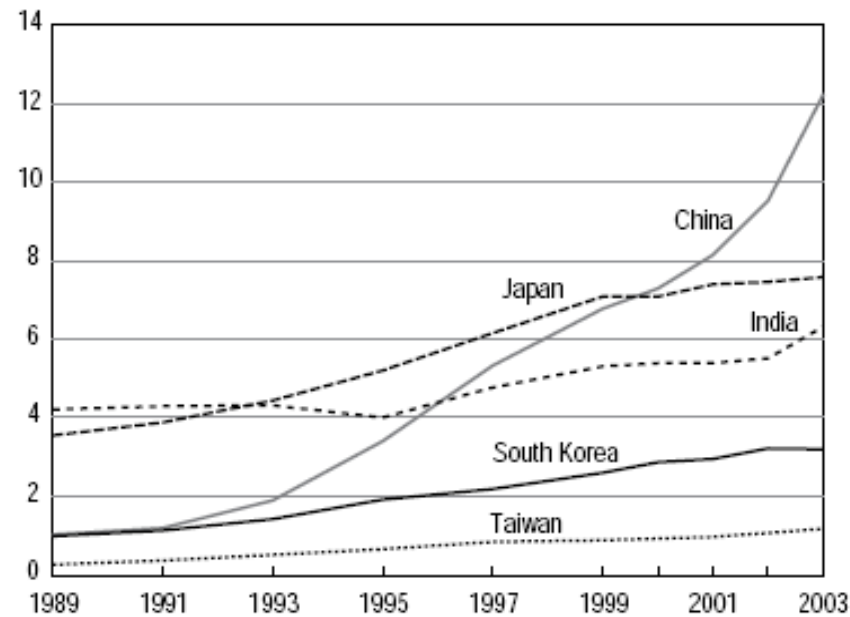
SOURCES: Department of Economic and Social Affairs, Population Division, United Nations Secretariat, World Population Prospects: The 2004 Revision Population Database, <http://esa.un.org/unpp/>; and World Urbanization Prospects: The 2003 Revision Population Database, <http://www.un.org/esa/population/publications/wup2003/2003wup.htm>, accessed 11 December 2006.

National Science Foundation, "Asia's Rising Science and Technology Strength, Comparative Indicators for Asia, the European Union, and the United States", May 2007

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FIGURE 5. Science and engineering doctorate production, by selected Asian country/economy: 1989–2003

S&E doctorates (thousands)



S&E = science and engineering

NOTE: Data unavailable for even years during the 1990s.

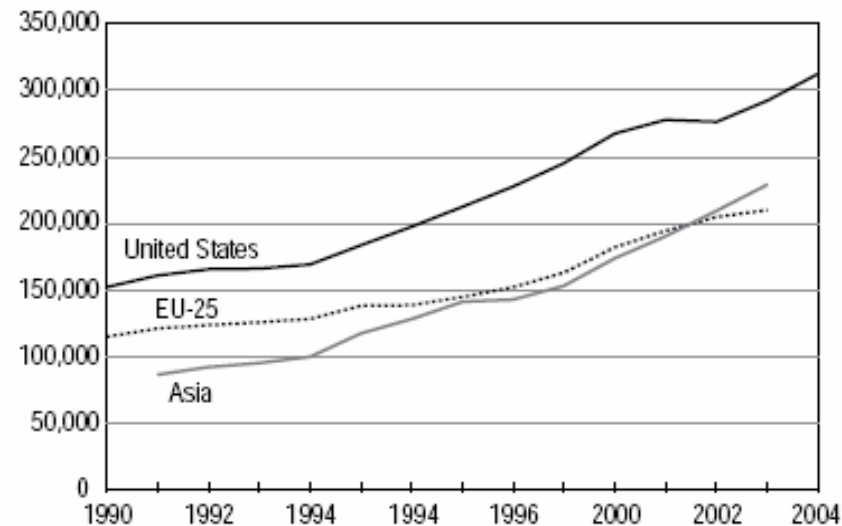
SOURCES: National Science Board, *Science and Engineering Indicators 2006*, Volume 2, NSB 06-01A (2006), appendix table 2-43; and Ministry of Education of the People's Republic of China, *Educational Statistics Yearbook* (various years).

National Science Foundation, "Asia's Rising Science and Technology Strength, Comparative Indicators for Asia, the European Union, and the United States", May 2007

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FIGURE 15. Gross expenditures on research and development, by selected region and country/economy: 1990–2004

Purchasing power parity (billions of dollars)



EU = European Union

NOTES: Purchasing power parity (PPP) is calculation of exchange rates based on relative costs of fixed basket of goods and services in different countries or regions. PPP exchange rates often differ from exchange rates set by financial markets. Asia includes China, Japan, Singapore, South Korea, and Taiwan.

SOURCE: Organisation for Economic Co-operation and Development, *Main Science and Technology Indicators* (2006).

National Science Foundation, "Asia's Rising Science and Technology Strength, Comparative Indicators for Asia, the European Union, and the United States", May 2007

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Global R&D Spending By Region (\$ billions)\*

**2008 Estimated**

	\$	%
<b>China</b>	<b>216.8</b>	<b>18</b>
<b>Europe</b>	<b>289.2</b>	<b>24</b>
<b>India</b>	<b>44.8</b>	<b>4</b>
<b>USA</b>	<b>400.5</b>	<b>33</b>
<b>ROW</b>	<b>258.7</b>	<b>21</b>
<b>TOTAL</b>	<b>1,210</b>	<b>100</b>

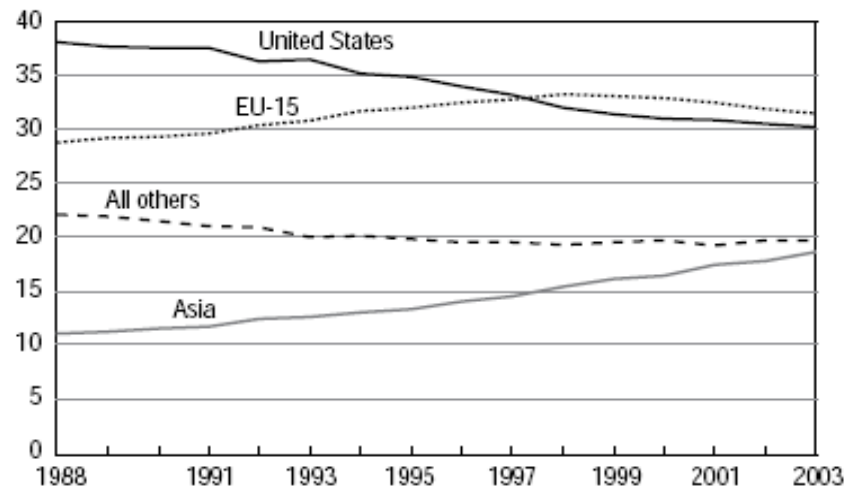
NOTE: China's R&D spending has grown from 14% of the world's total in 2006 to 18% in 2008

\*Source: R&D Magazine, September 2007

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FIGURE 25. Global share of science and engineering articles, by region and country/economy: 1988–2003

Percent distribution



EU = European Union

NOTES: Articles assigned to region/country/economy on basis of institutional address(es) listed on article. Articles on fractional-count basis, i.e., for articles with collaborating institutions from multiple countries/economies, each country/economy receives fractional credit on basis of proportion of its participating institutions. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand.

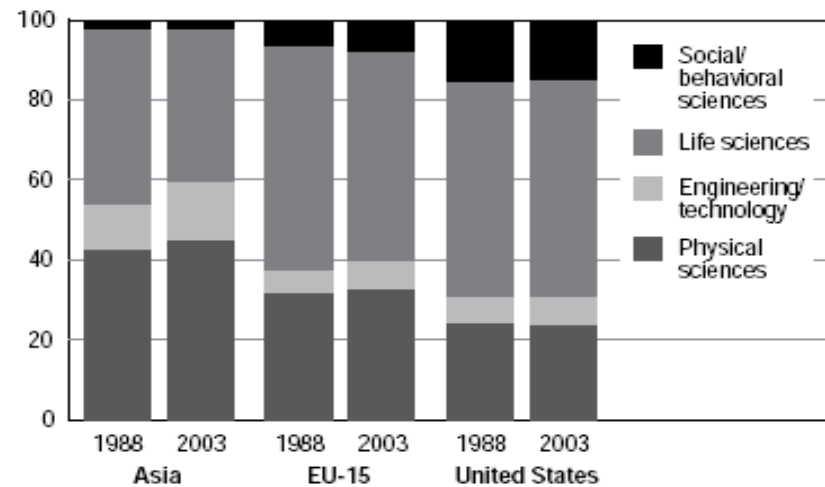
SOURCES: Thomson ISI, *Science Citation Index* and *Social Sciences Citation Index*, <http://www.isinet.com/products/citation/>, accessed 12 December 2006; iplQ, Inc.; and National Science Foundation, Division of Science Resources Statistics, special tabulations.

National Science Foundation, "Asia's Rising Science and Technology Strength, Comparative Indicators for Asia, the European Union, and the United States", May 2007

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FIGURE 27. Science and engineering article portfolio of Asia, European Union-15, and United States: 1988 and 2003

Percent distribution



EU = European Union

NOTES: Social and behavioral sciences include social sciences, psychology, health sciences, and professional fields. Life sciences include clinical medicine, biomedical research, and biology. Biology includes agricultural sciences. Engineering/technology includes computer sciences. Physical sciences include chemistry, physics, and earth and space sciences. Asia includes China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand.

SOURCES: Thomson ISI, *Science Citation Index and Social Sciences Citation Index*, <http://www.isinet.com/products/citation/>, accessed 12 December 2006; ipIQ, Inc.; and National Science Foundation, Division of Science Resources Statistics, special tabulations.

National Science Foundation, "Asia's Rising Science and Technology Strength, Comparative Indicators for Asia, the European Union, and the United States", May 2007



**Thank you!**

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