



*Global Connections for Canadian Innovators  
Liaisons internationales pour les innovateurs canadiens*

## **The growing importance of Global Technology Partnerships...**

### **4<sup>th</sup> Annual McGill Global Health Conference**

**Henri Rothschild,  
April 26<sup>th</sup>, 2010**



# Presentation overview...the backdrop of government supported health R&D

- **the changing role of government in research;**
  - Domestic science;
  - International cooperation.
- **the global perspective;**
- **The launch of the International S&T partnerships program;**
- **Perspectives on future developments**



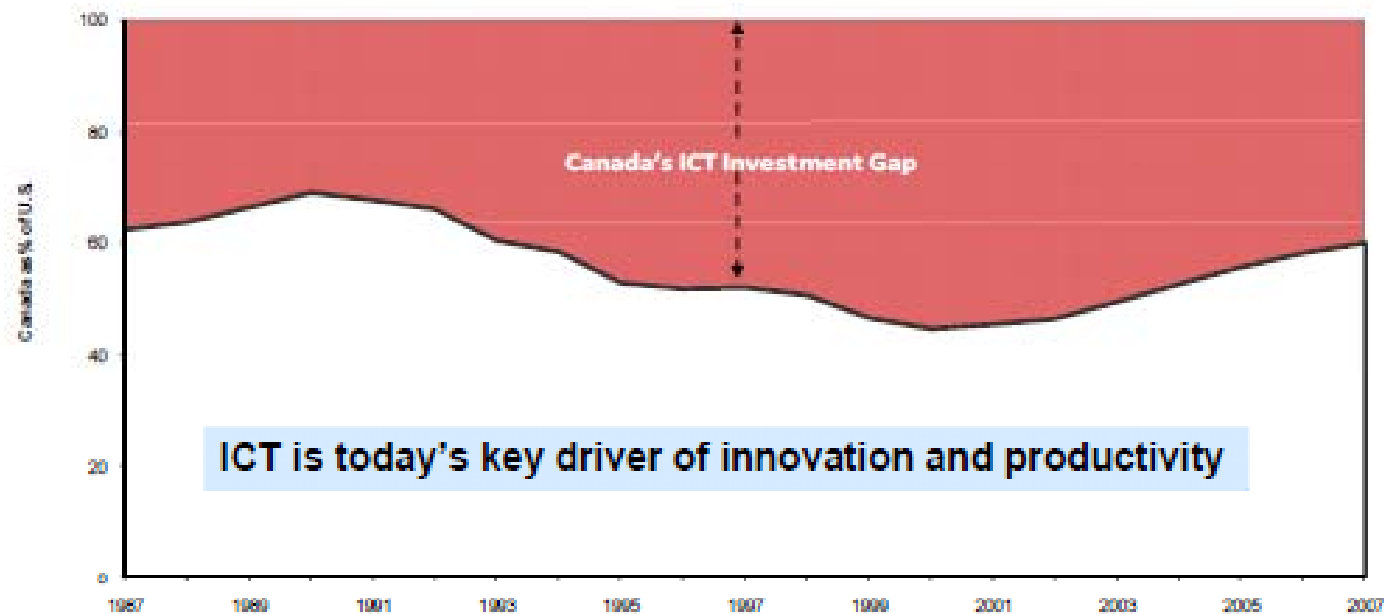
# The Changing Face of Innovation support

- **1970s: beginning of a fundamental rethink of public support for university research;**
- **1980s: emergence of the granting councils;**
- **1990s: emergence of S&T ‘policy’ ( major investments by the public sector;**
  - NCEs, CIHR, Research chairs, CFI, Genome Canada
  - Yet...continuation of divergent paths..university/industrial research
- **2000s: continued support for granting councils:**
  - ‘Focus on technology commercialization and ‘sector drive’ in health/environment/energy;
  - BL NCEs..CECR
  - Plus emergence of provincial role



## INVESTMENT IN “EMBODIED” INNOVATION ALSO LAGGING

BUSINESS ICT INVESTMENT PER WORKER - CANADA AS PER CENT OF U.S.  
1987-2007



TOO MANY CANADIAN BUSINESSES ARE TECHNOLOGY FOLLOWERS, NOT LEADERS

## **International research: innovation policy's unfinished business**

- **Growing sense that bi-lateral commercial relations required an R&D cooperation component: a new era of S&T agreement. From cultural to economic;**
- **Increasing trend to 'coordinate' and focus historic and existing research cooperation;**
- **Emergence of Foreign Affairs/International Trade as a “science based department”.**

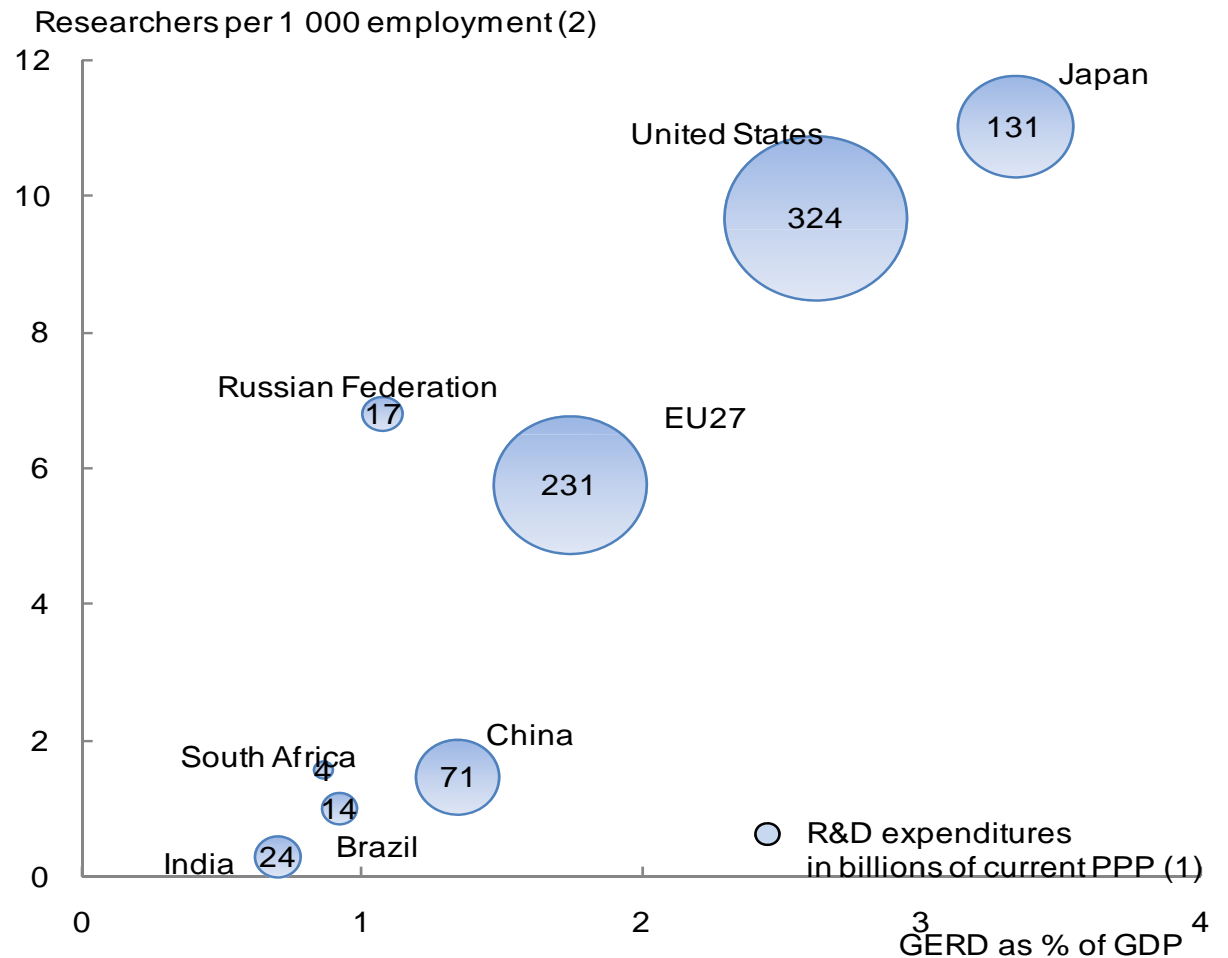


# The emergence of global connections

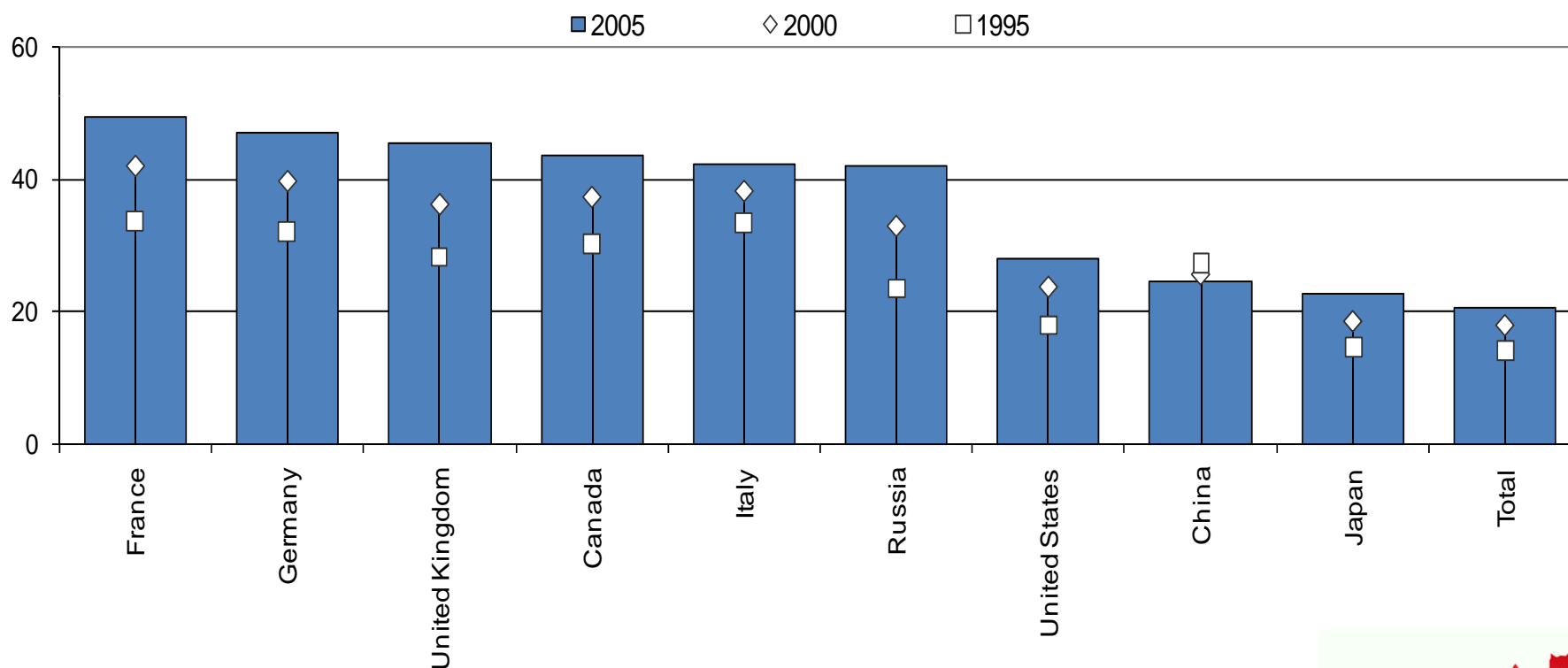
- **A productivity strategy intersects with a global market enlargement strategy**
- **Three factors are driving the competition for global partnering;**
  - 1- emergence of India, Brazil and China;
  - 2- continuing acceleration in the pace of and complexity behind innovation; and
  - 3- the corresponding need for increased technological scope and visibility
- **The bonus is increased market access.**



- China is now the third largest investor in R&D globally – with a target to reach an R&D intensity of 2.5% by 2020.
- China's growth of R&D spending has been on average 18% a year since 1995.
- China now counts close to 1000 foreign R&D labs, accounting for about 25% of business R&D.
- Some firms undertake R&D for the global market in China.



## Share of scientific articles that are internationally co-authored, 1995, 2000 and 2005 (in %)<sup>1</sup>



Source: OECD STI Scoreboard 2007, based on NISTEP.

Note: (1) Only scientific articles in natural science.



# International S&T Partnerships Canada: a new 'instrument'

- **Collaborative bi-lateral management**
  - Synchronization/harmonization of research review and approval
- **Important role for universities/hospitals:**
  - Especially with China
- **Emphasis on defining new forms of research cooperation;**

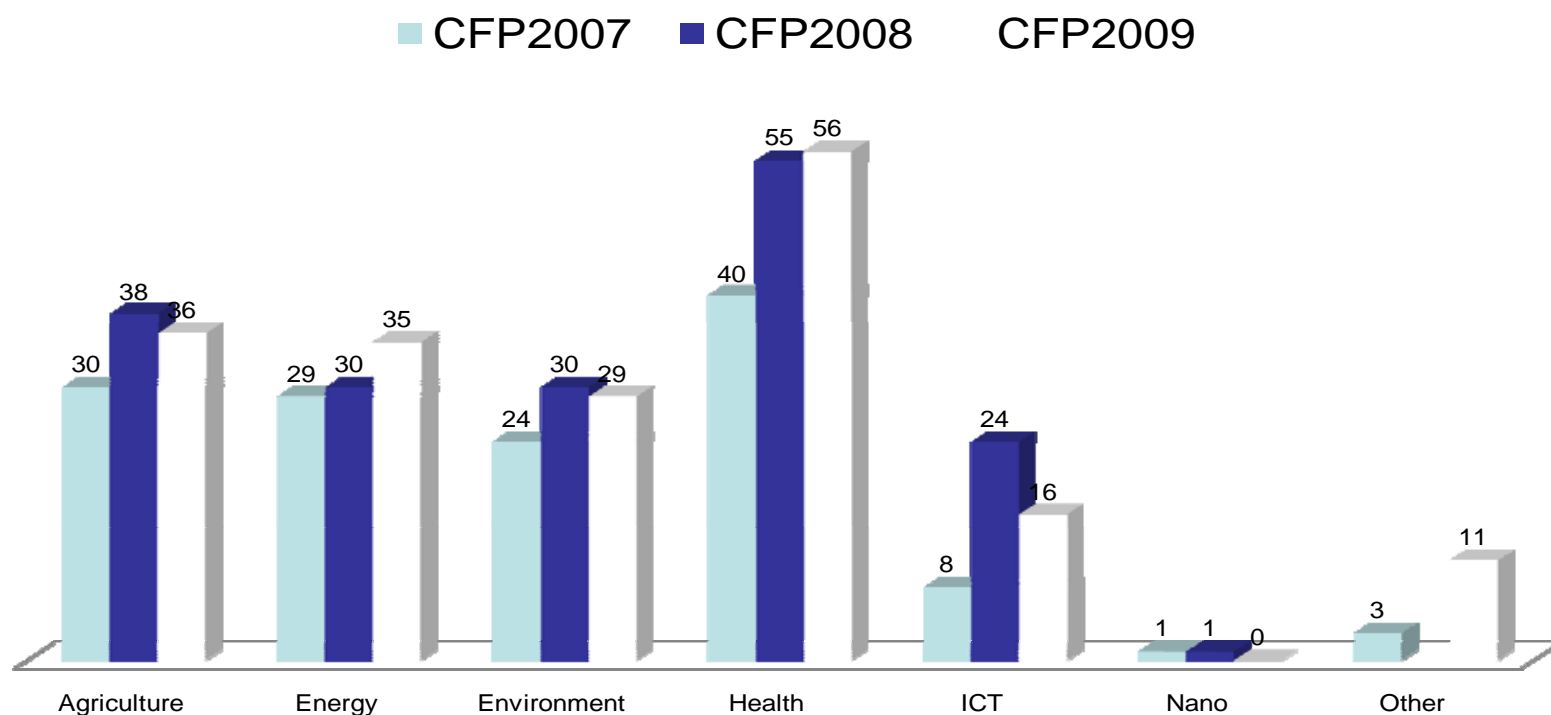


# Global Partnerships: and the health sector

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## Comparisons 2007 vs 2008 vs 2009

### EOIs by Sector



**Totals: 135, 178, 183**



## **Value Proposition to research institutes, universities and companies**

- **Partnering, visibility;**
- **On the ground support;**
- **Funds for partnering;**
- **Guide to other sources of Canadian funding support; and**
- **Due diligence on joint collaboration prospects.**



# Conclusions

- **ISTPP programs will likely grow in the years ahead;**
- **Canada has much untapped potential to be a major player with the emerging economies;**
- **Designed with the technology/visibility needs of tech-based SMEs but also driven by 'sector priorities, including health as a domestic economic and global market issue;**
- **Continuing integration of multiple objectives of productivity, innovation, global partnerships and economic growth**

