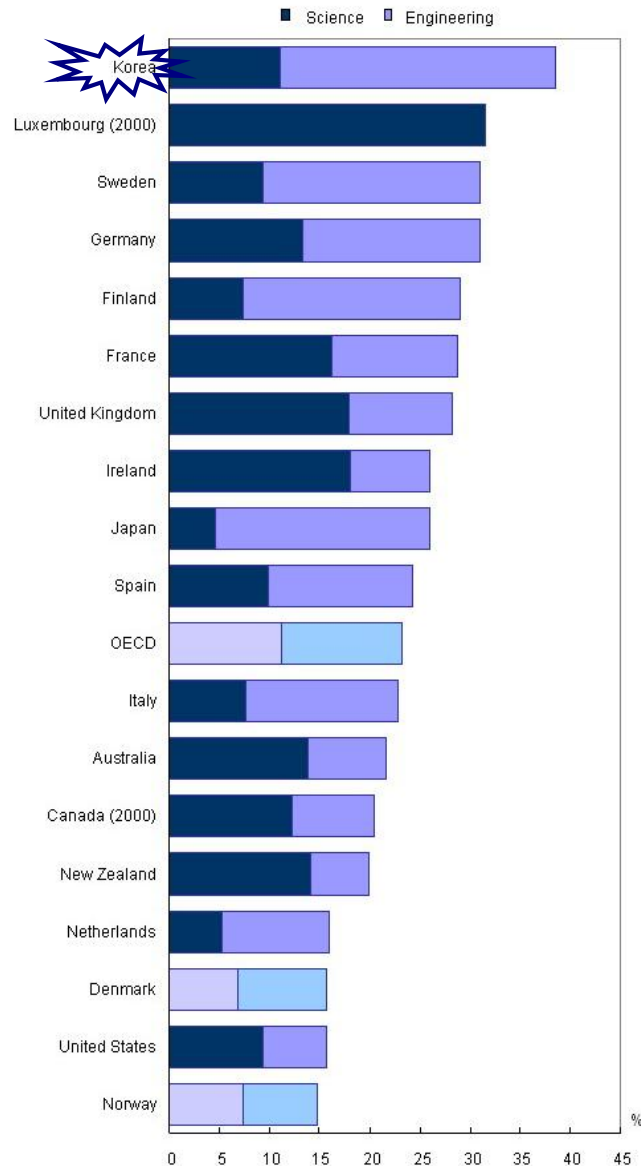


# **Policy and Approach for Enhancing the International Mobility of Researchers: The Korean Case**

**Myungsoo Park  
STEPI, Korea**

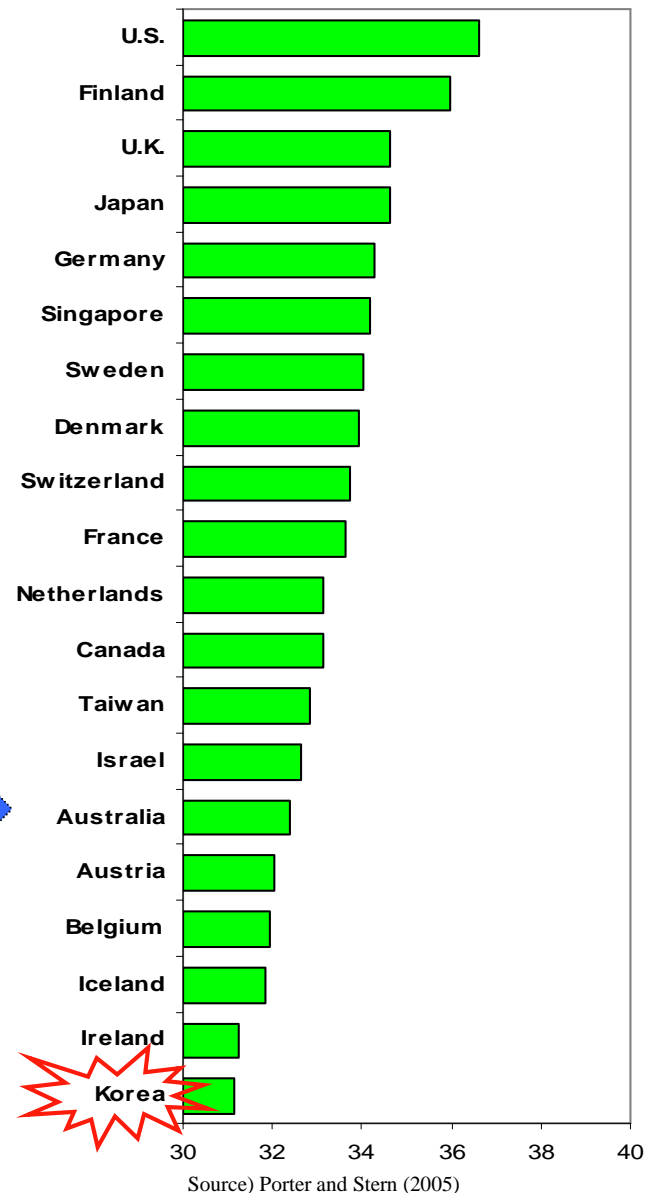
**Workshop on the International Mobility of Researchers  
March 28, 2007  
Paris**

## % of S&E BA degrees (2002)



Source) OECD STI Scoreboard (2005)

## Innovative Capacity Index (2003)



Source) Porter and Stern (2005)

**Mission**  
 Make HRST  
 the driving  
 force  
 in raising  
 the  
 innovative  
 capacity



# Vision

## International Mobility

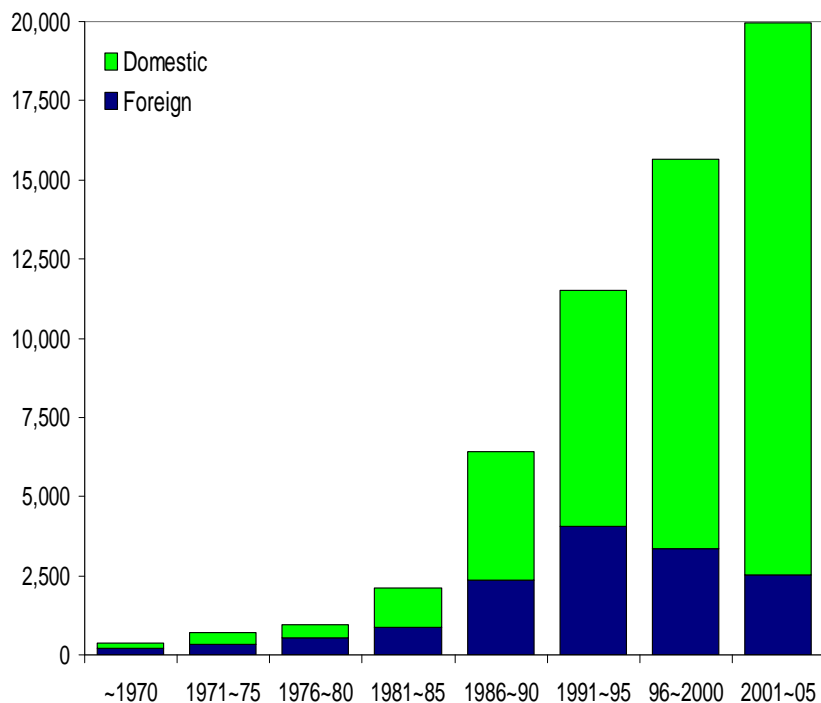
Domestic Human Resources

Overseas Education  
and Training

➤ Raising the scientific bar of individual researchers

# Supply of Korean S&E PhDs

**New S&E Doctorate Holders  
of Domestic and Foreign Universities**



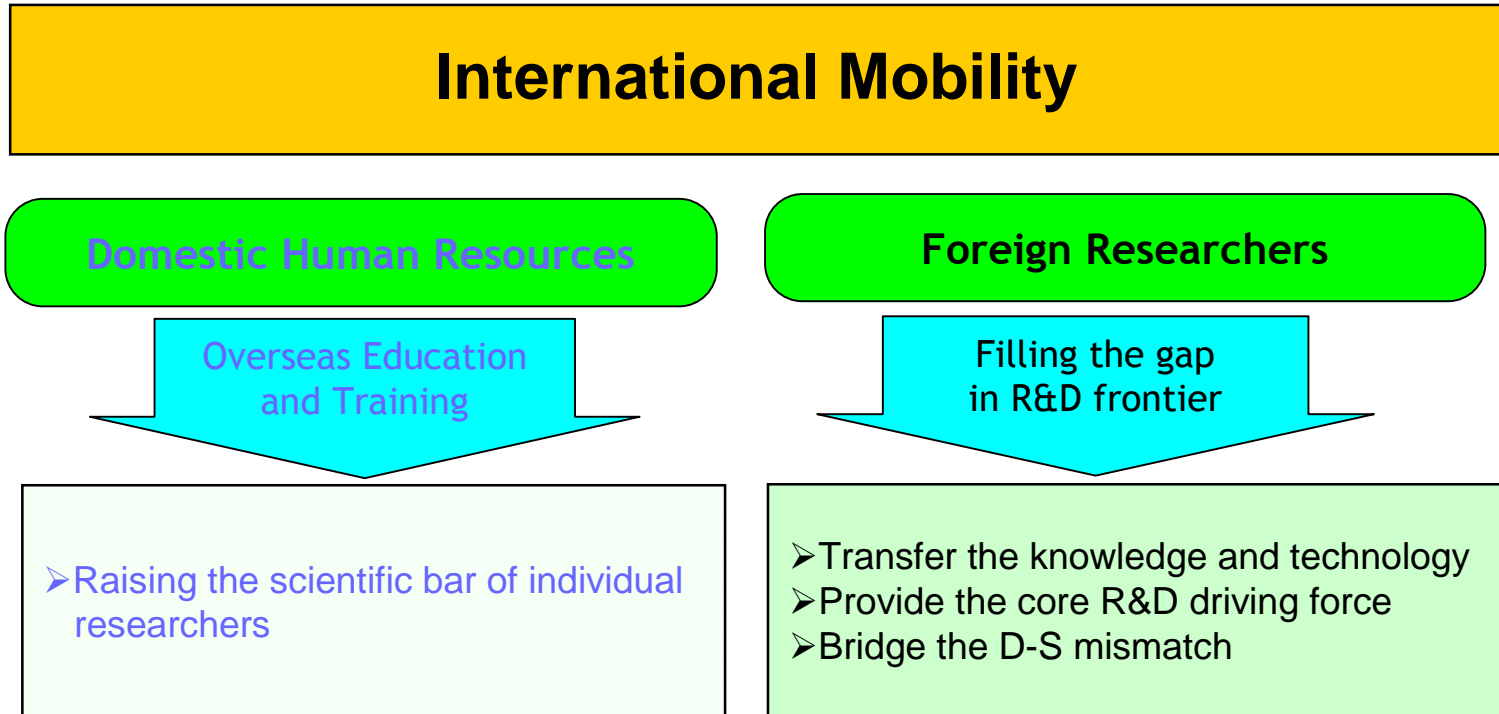
Note) Statistics of foreign school PhDs account only the registered in Korea Research Foundation, while registration is recommended. Statistics of domestic school PhDs are from Yearbook of Education Statistics.

- ❑ 1953~68 : 6% of repatriation rate
- ❑ **Until 1970s, hefty compensation packages for repatriation**
- ❑ Since 1990s, more and well-qualified PhDs through domestic education system
- ❑ Currently, market-based selection mechanism
  - **Now, no specific measure to deter brain drain**

# Raising the Scientific Bar of Korean Researchers

- ❑ Bring more foreign students in university
  - **Study Korea** project : Increase the stock of foreign students from 16,800(2004) to 50,000(2010) through
    - o grants to about 100 MA & PhD students per year
    - o grants to 30 BA students per year from developing countries
    - o building infrastructure to accommodate foreign students :  
dormitory, on- and off-line network, public relations
  
- ❑ Promote **joint research** with foreign scientists
  - grants to 2-year 100 projects per year
  
- ❑ Foster research institutes to host **international academic meetings**
  - grants to 86 conferences (2004~06)

# Vision



# Inducing Foreign Researchers through Grants

## Brain Pool

- ❑ Grants to foreign outstanding scientists and engineers
  - research at public and private research institutes
  - period: up to 2 years
  - 1,220 researchers employed at 207 institutes (1994~2006)  
(Korean emigrants: 36%)

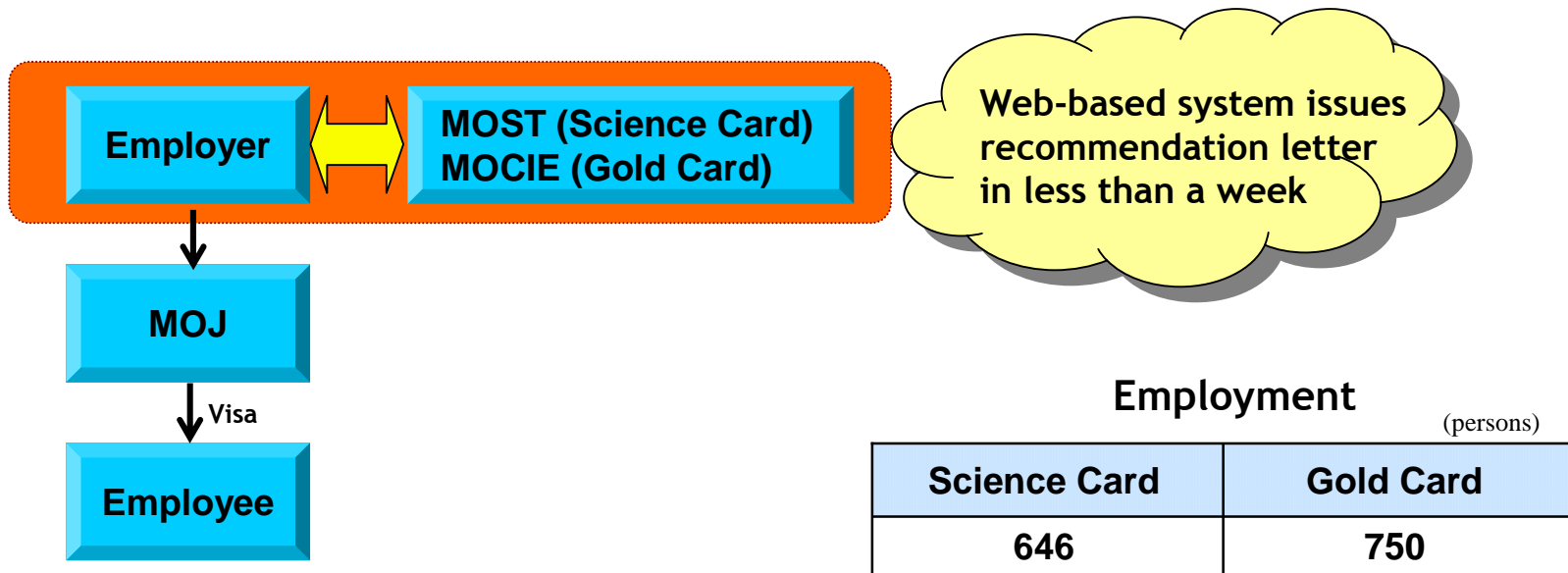
## Post-Doc Fellowship Program

- ❑ Grants to S&E researchers from developing countries
  - work at university, public and private research institutes
  - preferably under 40 years of age
  - period: up to 1 year
  - 225 researchers from 25 countries (1995~2006)

# Visa Programs for Foreign HRST

**Science Card : Scientists for university, public/private research institutes**  
**Gold Card : Engineers for business in 8 high-tech areas**

- Increase employment of foreign scientists and engineers by
  - facilitating the immigration processes
  - income tax exemption (Gold Card)
  - visa for up to 3 years



Note) 2001~Mar.2007 for Science Card  
2000~Mar.2007 for Gold Card

# Programs for Brain Circulation

## Scientist Exchanges

- ❑ Financial support for both foreign and Korean researchers
  - study visits or short stay
  - subsidize living expenses for 225 incoming foreigners (2004~06)
  - grant travel allowances for 282 outgoing Koreans (2004~06)

## ART (APEC R&D Management Training) Program

- ❑ Full-funded program for managers of R&D, government administrators of S&T policies of APEC countries
  - one-week-long lectures and discussions annually, hosted by MOST
  - capitalizing the experiences of, and exchanging the best practices of R&D management and S&T policies among APEC countries
  - 209 participants from 21 countries (1998~2006)

# Vision

