

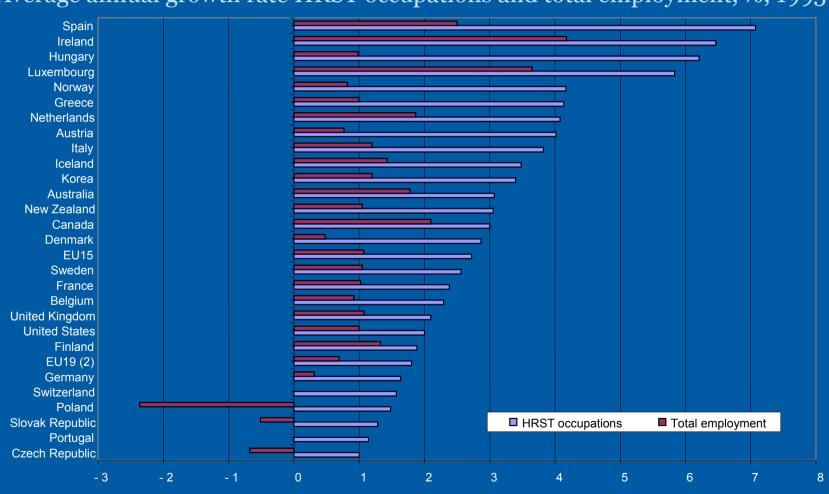


Demand, supply, and international mobility of human resources in Science & Technology

Frédéric Sgard OECD Global Science Forum

The demand for Human Resources in S&T is growing faster than employment

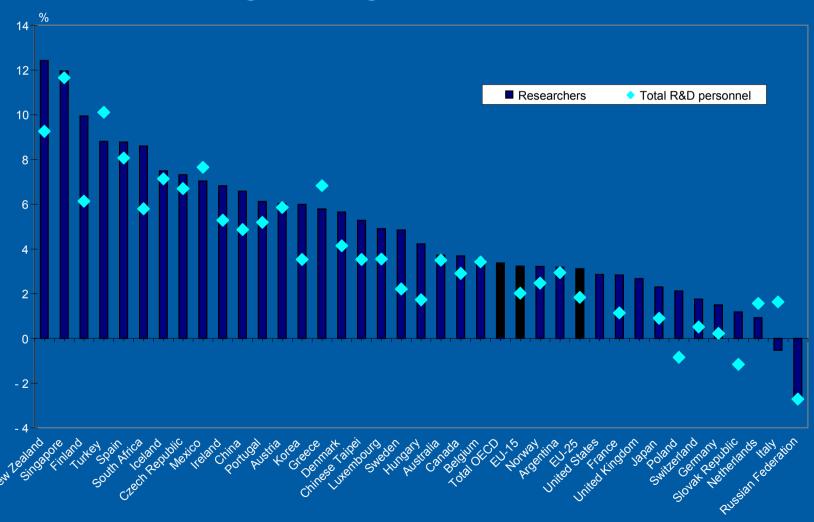
Average annual growth rate HRST occupations and total employment, %, 1995-2004





Strong growth in R&D personnel in most countries

Average annual growth rate, %, 1995-2005,





Demand for Human Resources in S&T is expected to increase further

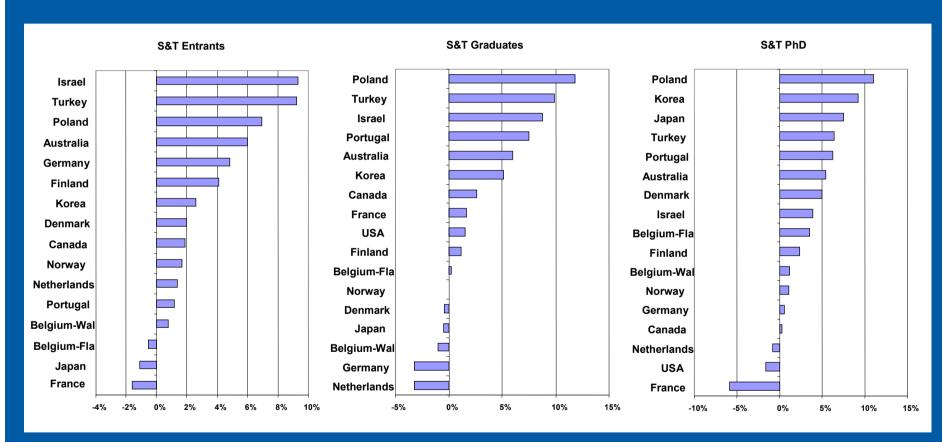
National targets for R&D spending

Country	Target	Date	Most recent
China	2.5% GDP	2020	1.23% (2004)
Denmark	3% GDP	2010	2.5 % (2004)
Germany	3.0% GDP	2010	2.5% GDP (2004)
Ireland	2.5% GNP	2010	1.2% GDP (2004)
Korea	Double public investment	2007	2.9% GDP (2004)
Netherlands	3.0% GDP	2010	1.8% GDP (2004)
Poland	2.2% – 3.0% GDP	2010	0.6% GDP (2004)
Portugal	Double public investment in R&D to 1% of GDP and triple Business R&D	2010	0.8% GDP (2003)
Russia	2.0% GDP	2010	1.15 % GDP (2004)
Spain	2.00% GDP	2010	1.1% GDP (2004)
United Kingdom	2.5% GDP	2014	1.9% GDP (2003)

Source: OECD, Country responses to STI policy questionnaire, 2006; Main Science and Technology Indicators 2006/I



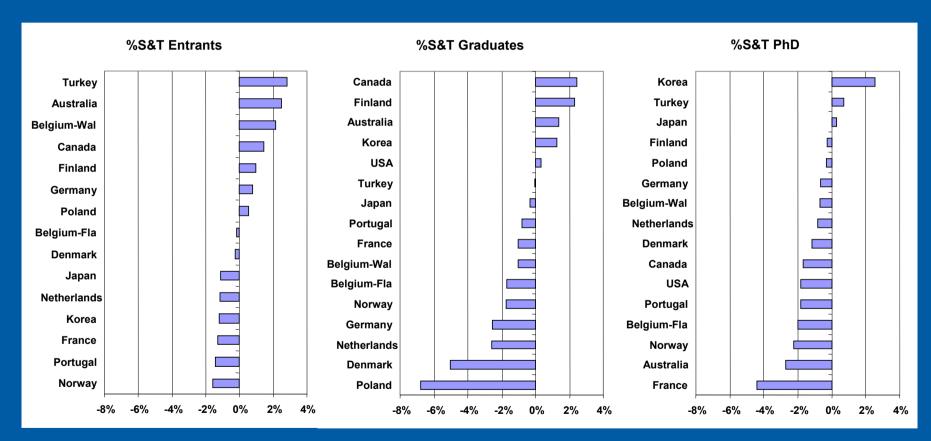
The number of S&T students has generally increased



Number of S&T students 1993-2003; average annual change



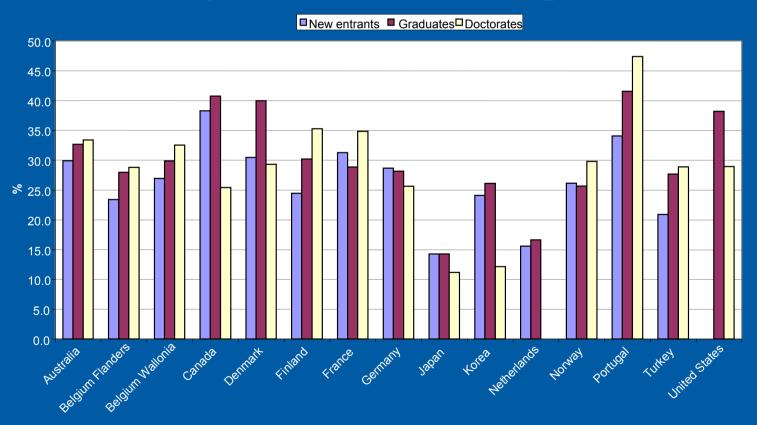
But the share of S&T students is often decreasing



Percentage of S&T students 1993-2003; average annual change

OECD The share of women in S&T studies has not caught up yet that of men

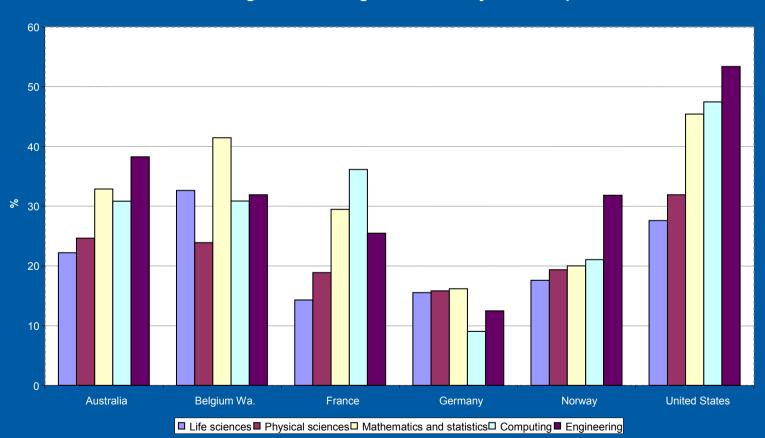
Percentage of women in S&T disciplines (2003)





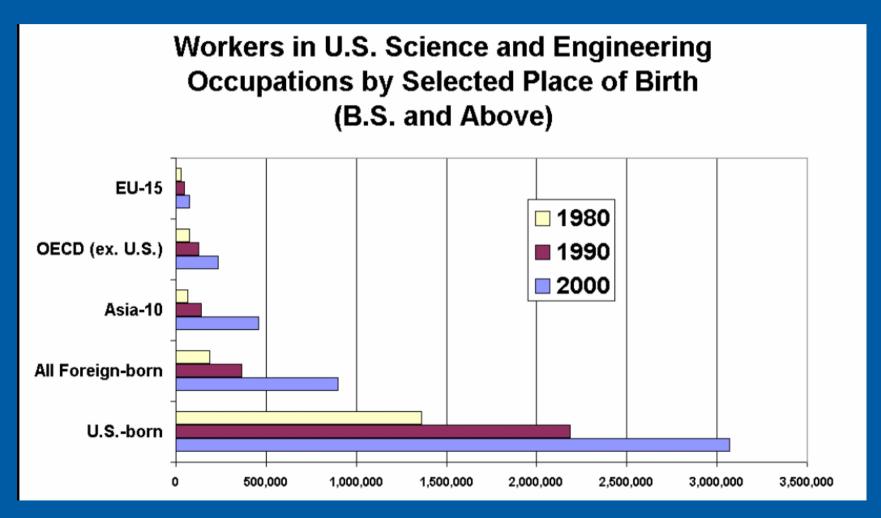
S&T students and professionals are increasingly mobile

Percentage of new foreign doctorates by S&T discipline





S&T students and professionals are increasingly mobile



Source: National Science Fondation

But they are also increasingly returning to their home country when possible

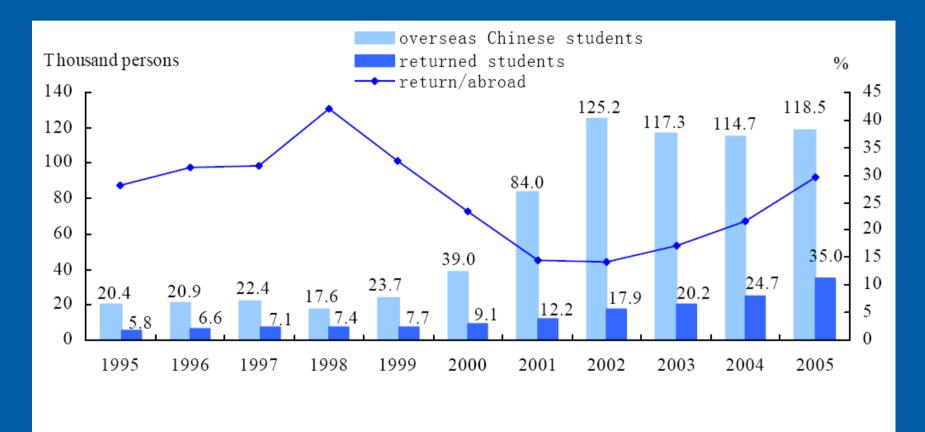


Fig 1-8 Overseas Chinese Students and Returned Students (1994-2005)



For further information

- Evolution of student interest in S&T studies (frederic.sgard@oecd.org)
- International mobility of researchers (ester.basri@oecd.org)
- Careers of doctorate holders (laudeline.auriol@oecd.org)