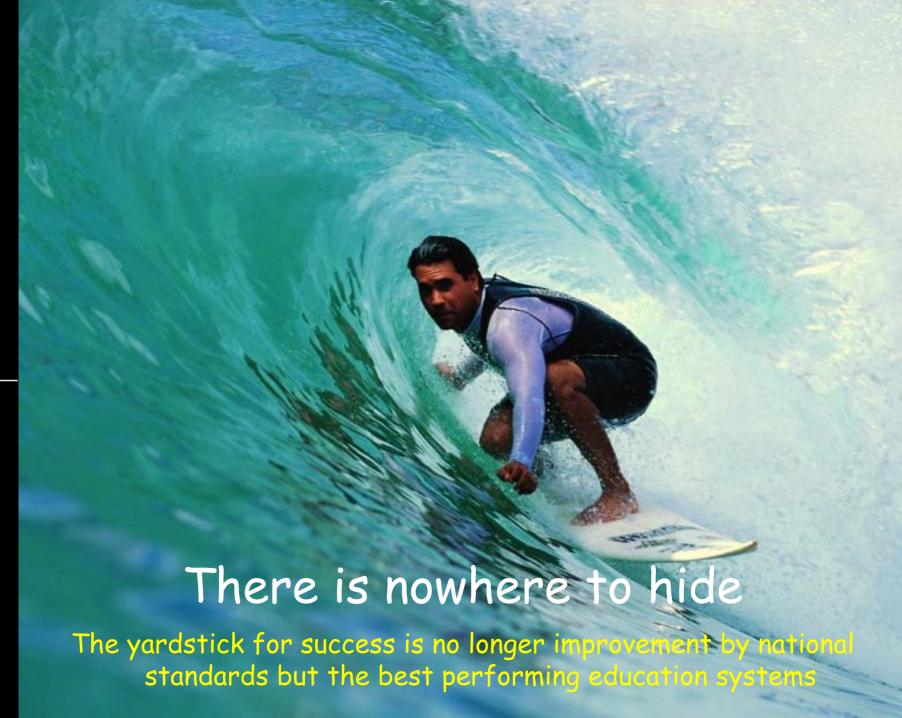
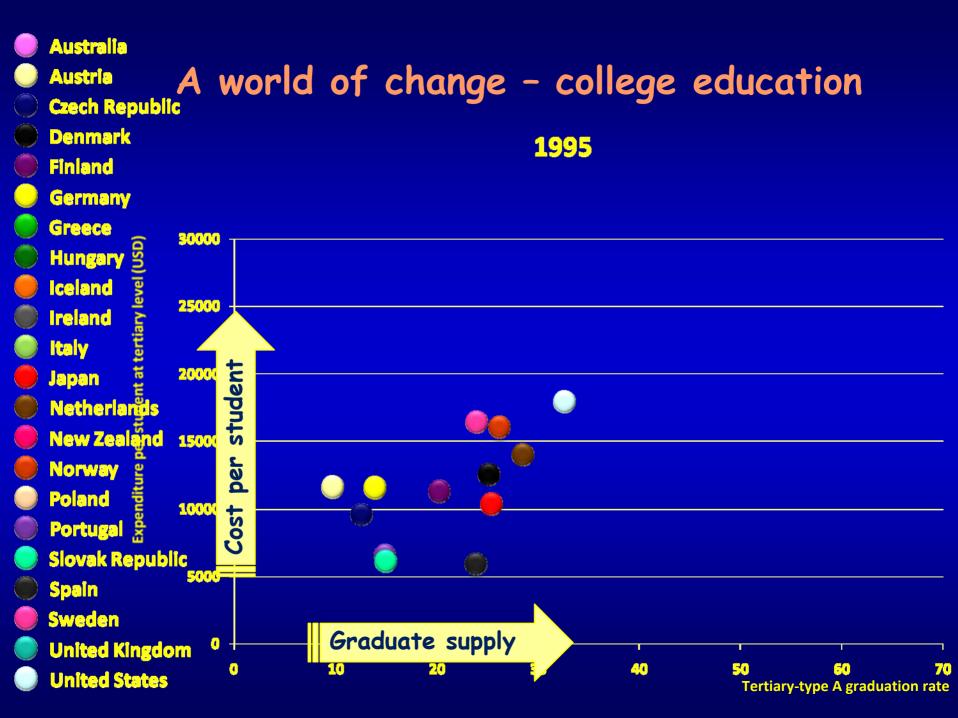
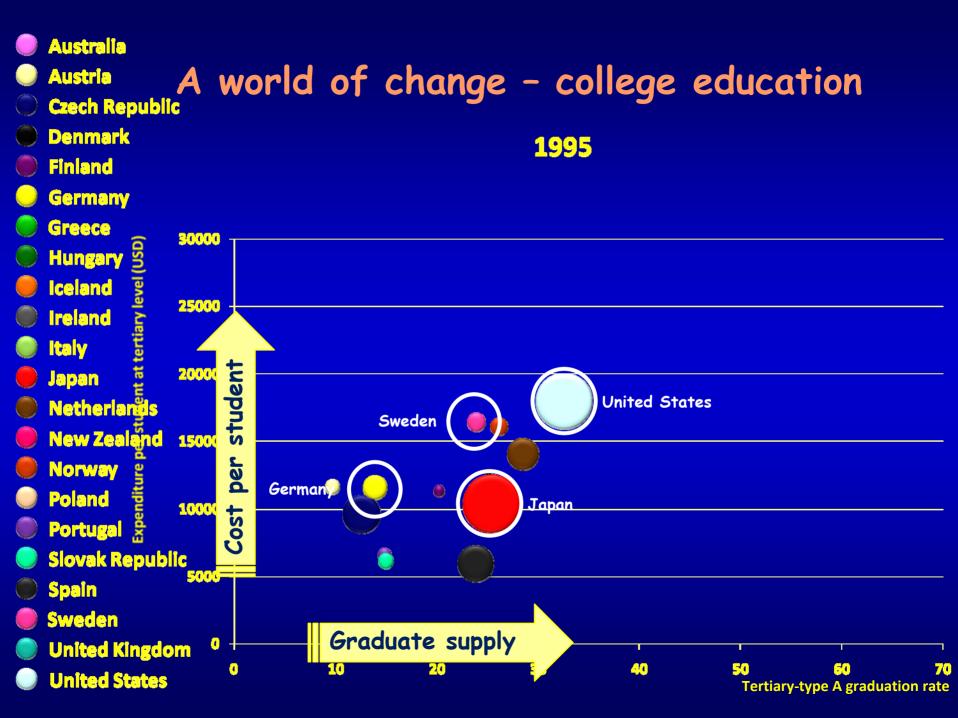
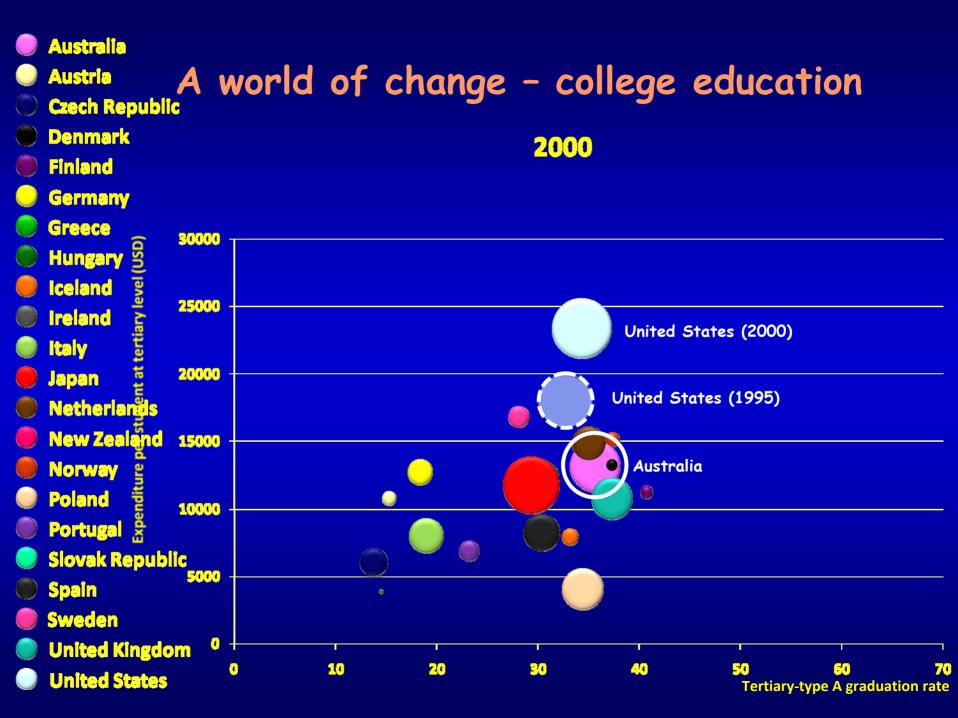
This morning

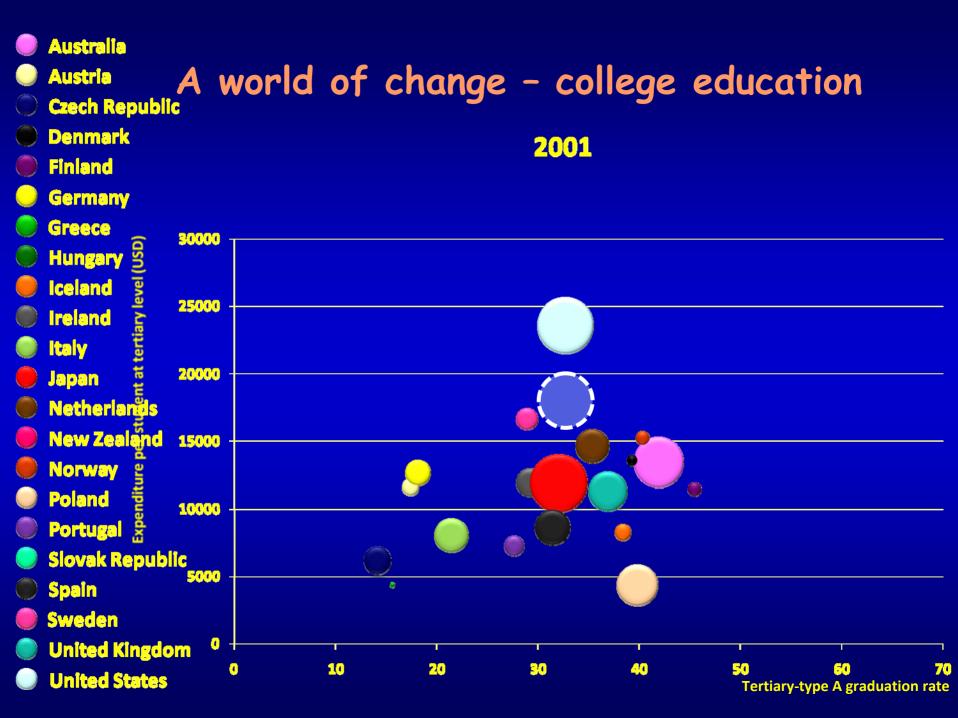
- 1. There is nowhere to hide
 - Why the yardstick for educational success is no longer improvement by national standards but the best performing systems internationally
- 2. Benchmarking education internationally
 - Where we are and where we can be
 - Where the US and other countries stand in terms of quality and equity of schooling outcomes
 - What the best performing countries show can be achieved
- 3. How we can get there
 - Some policy levers that emerge from international comparisons

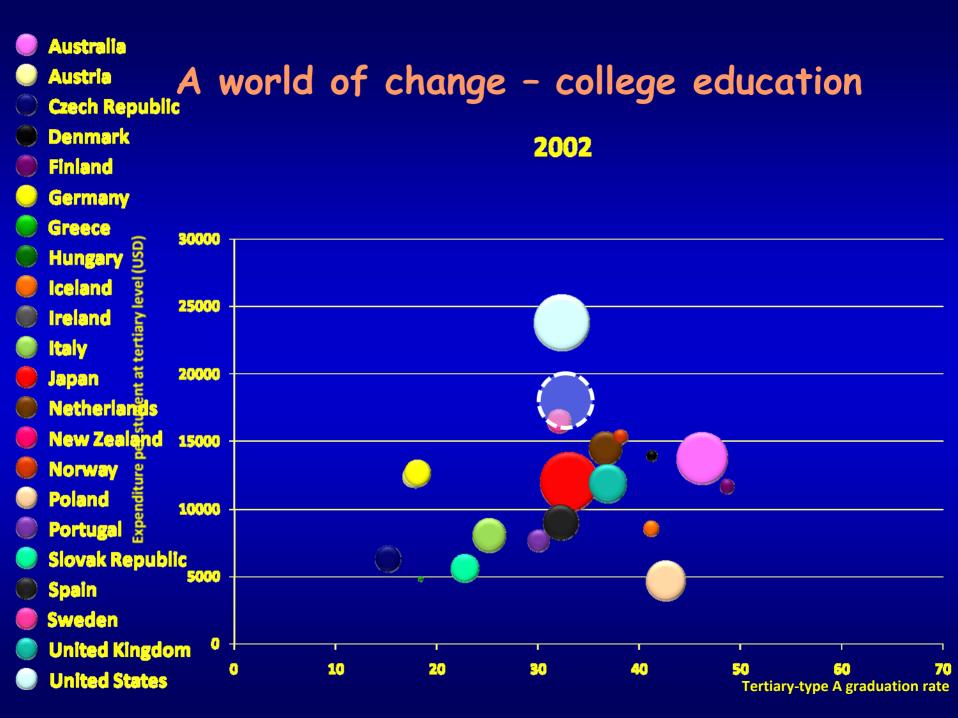


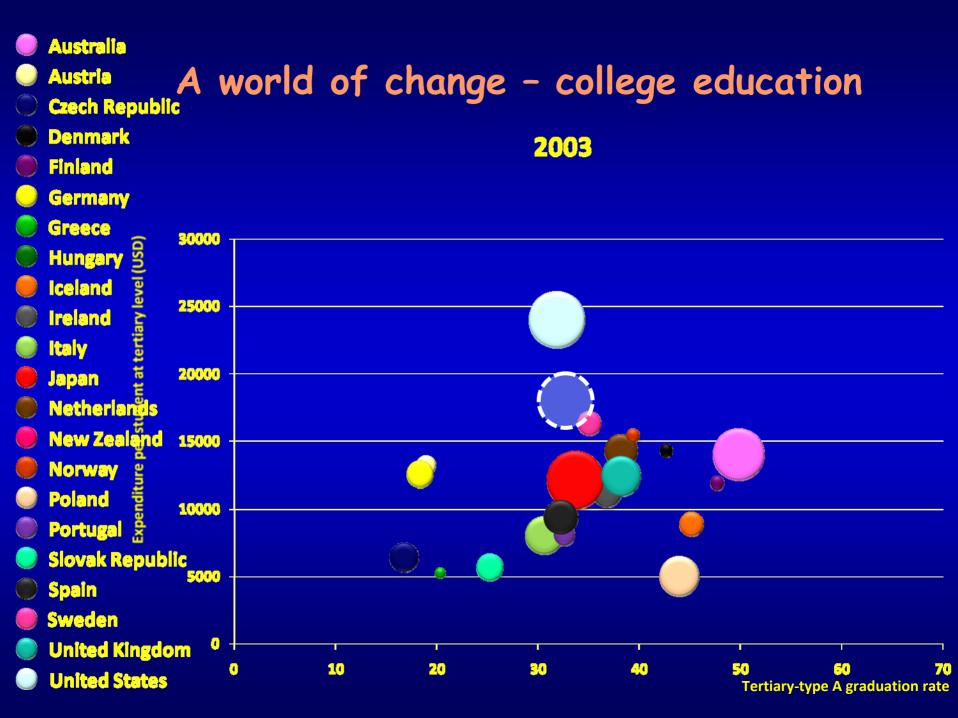


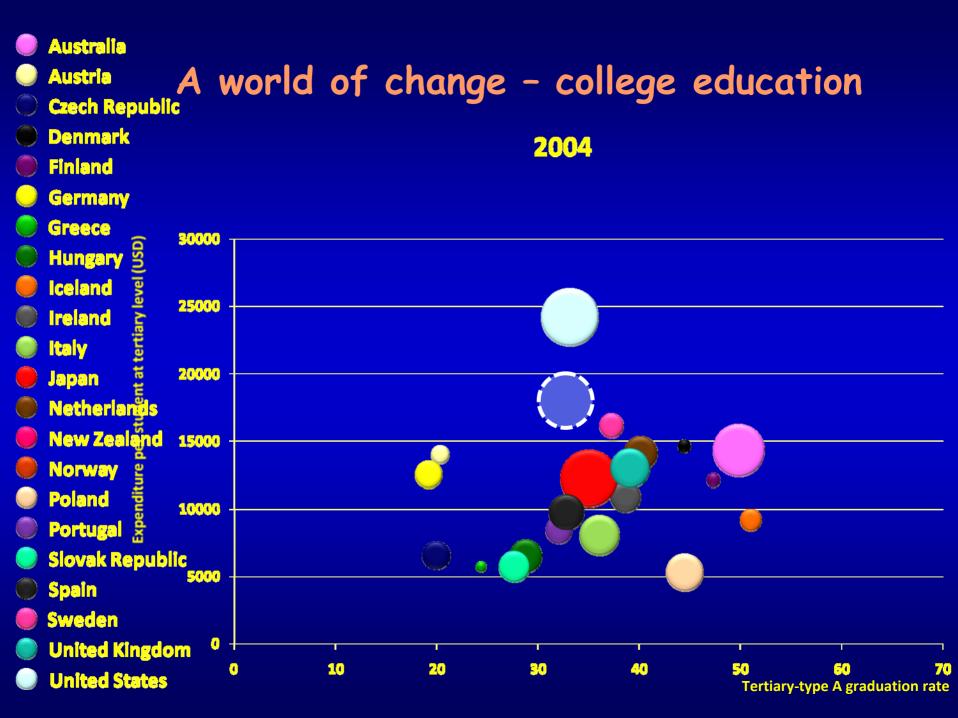


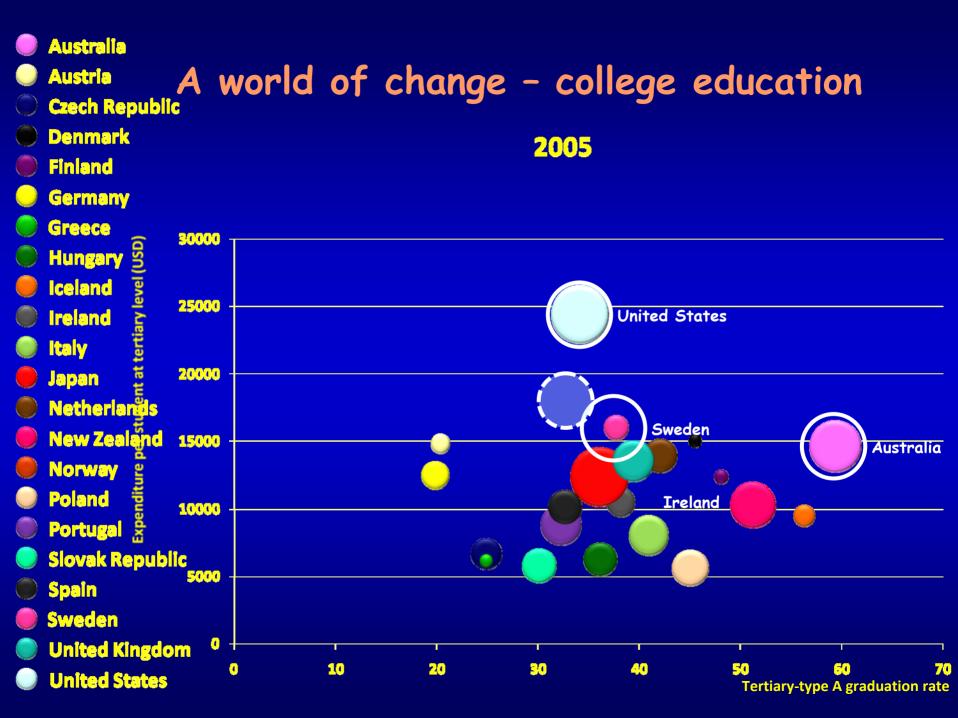


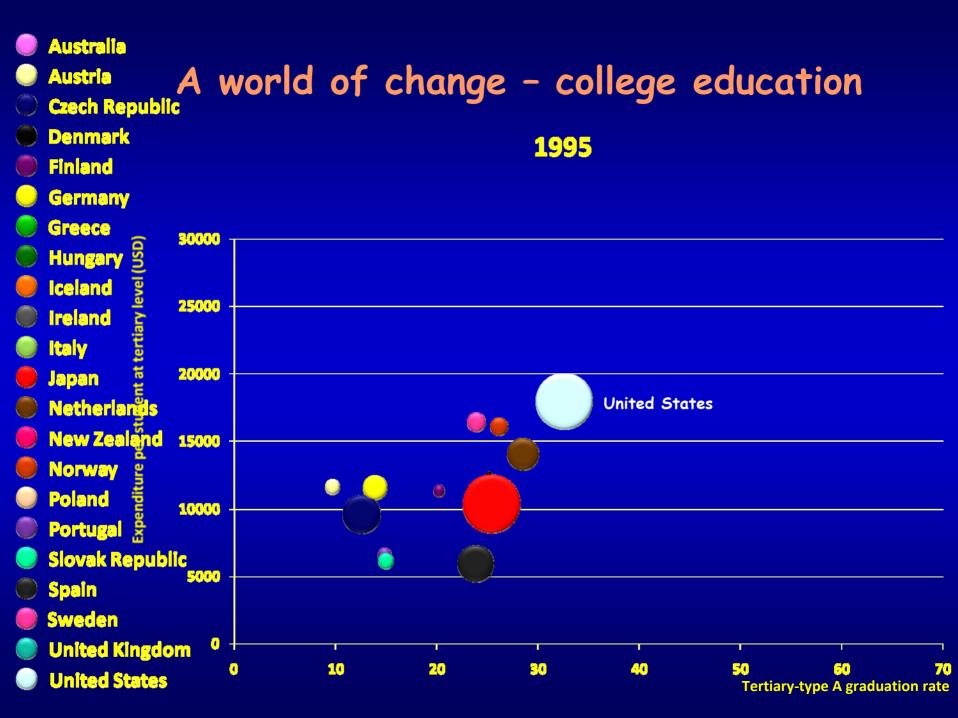


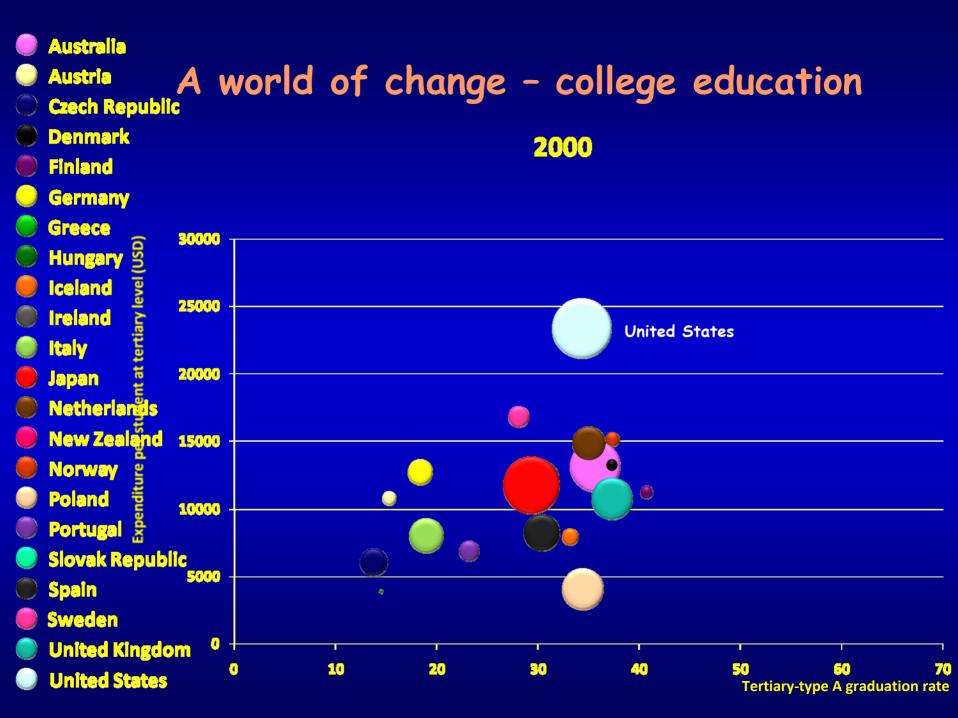


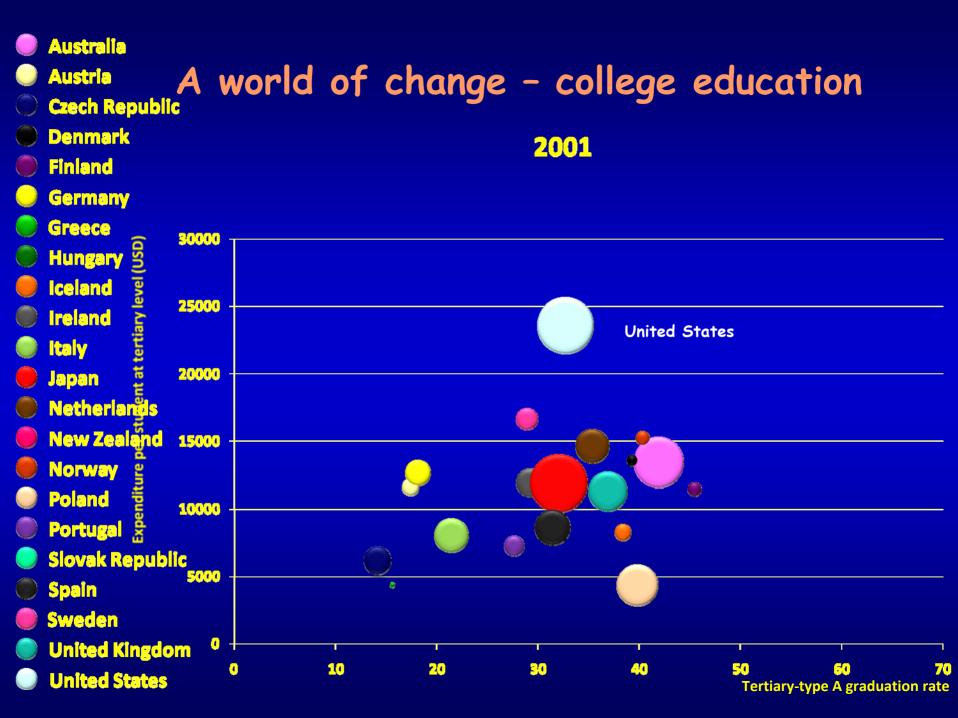


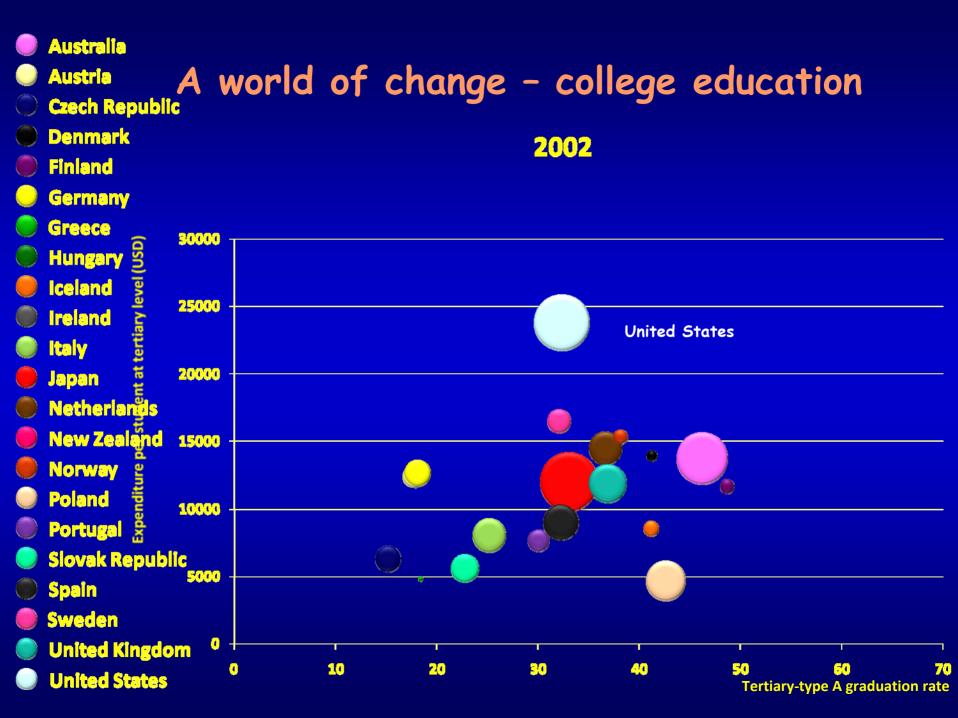


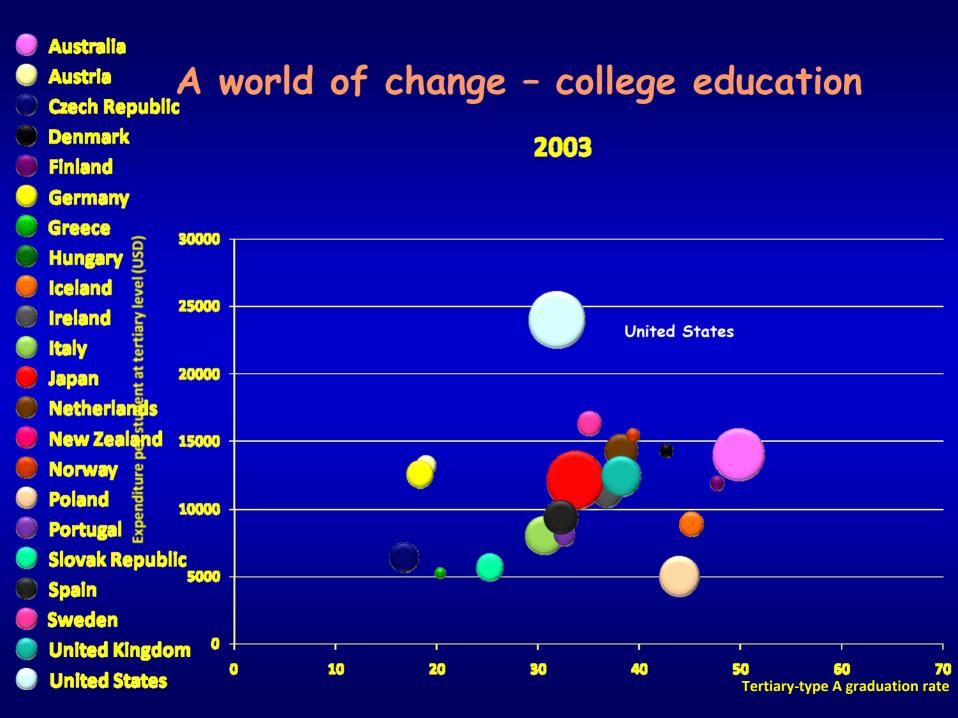


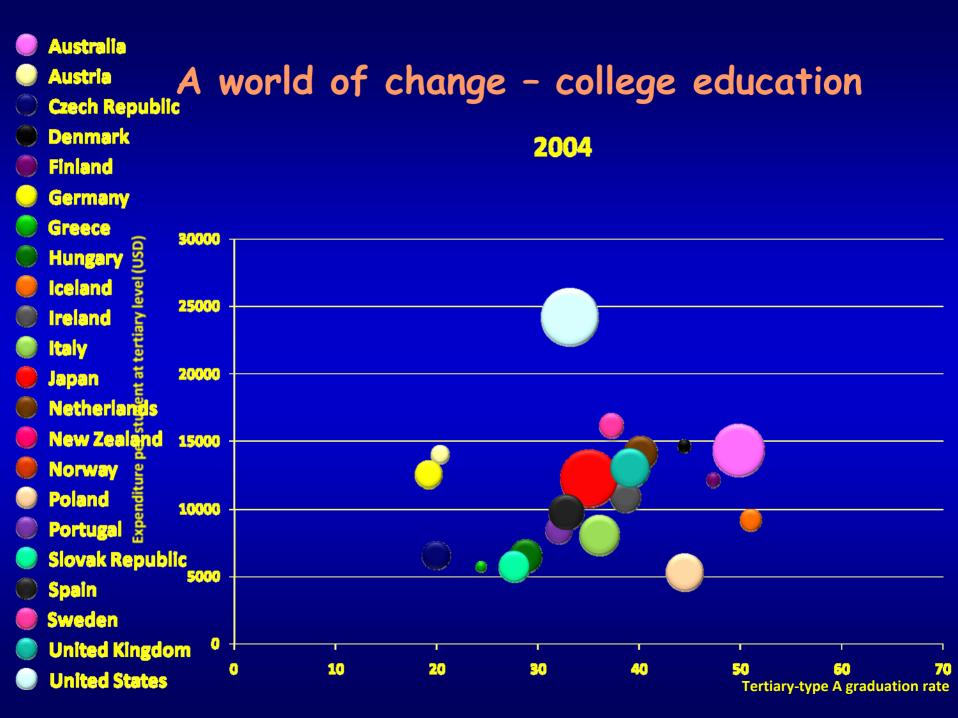


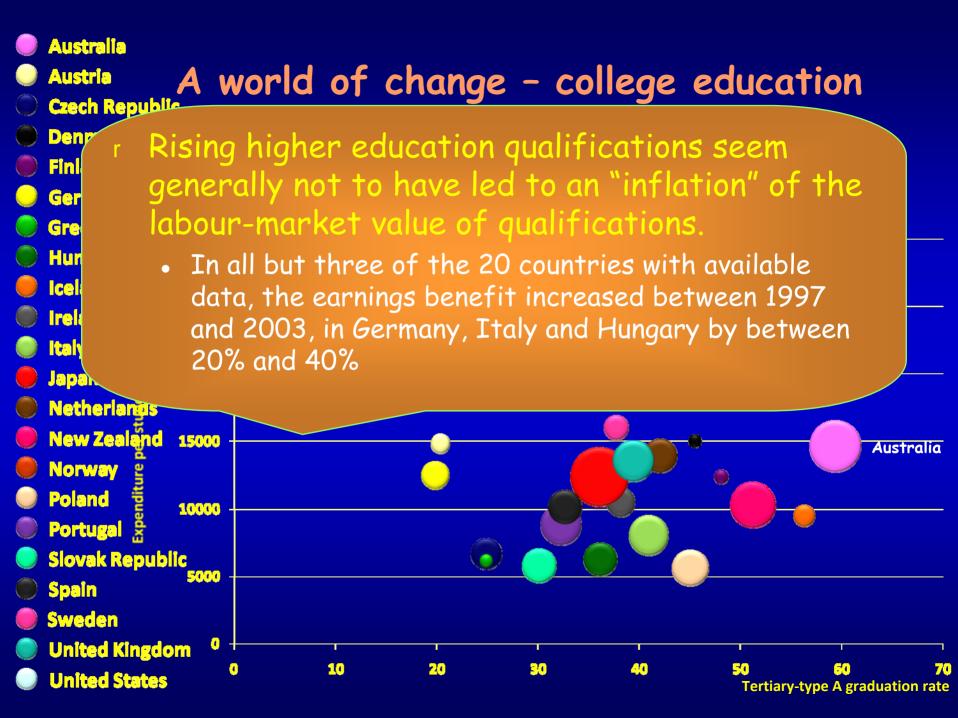




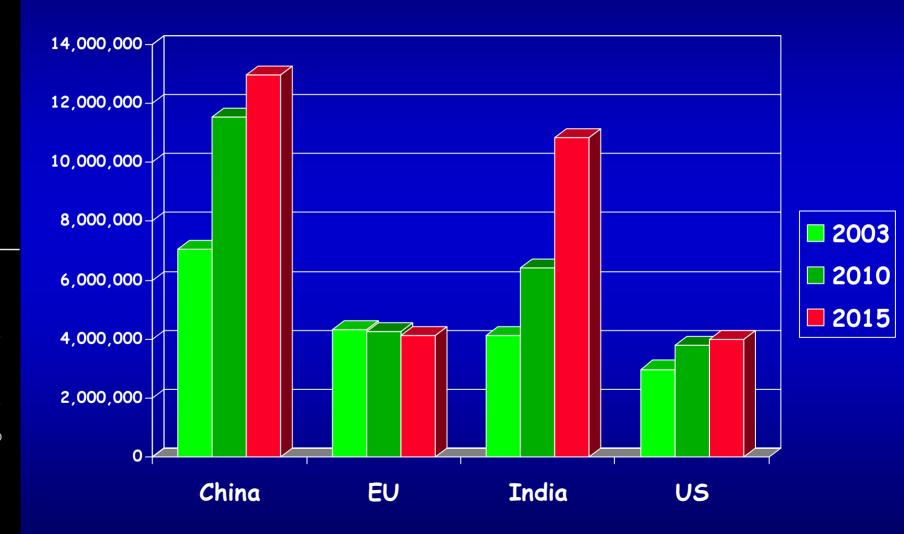


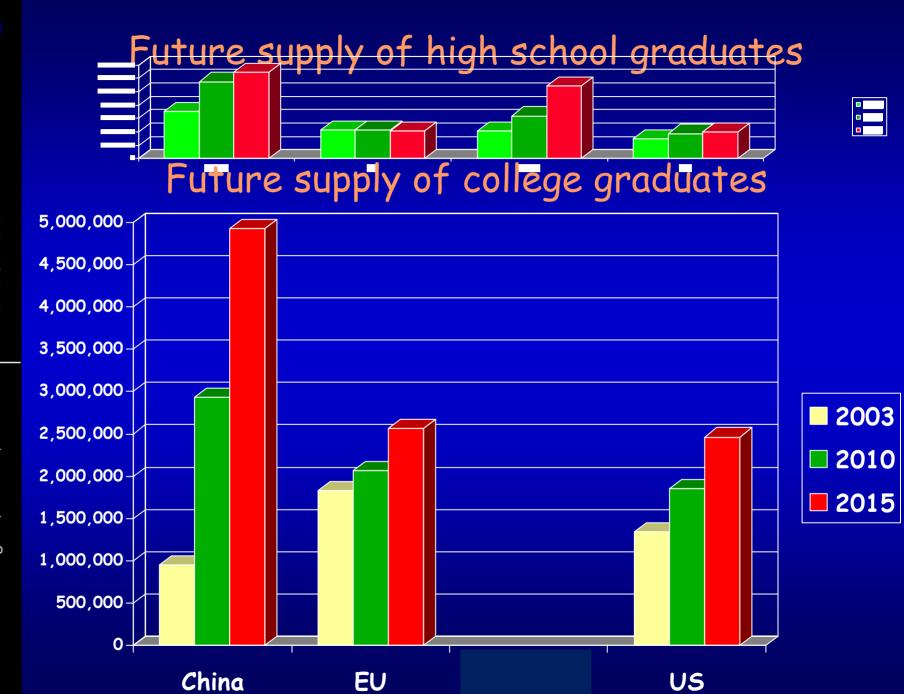






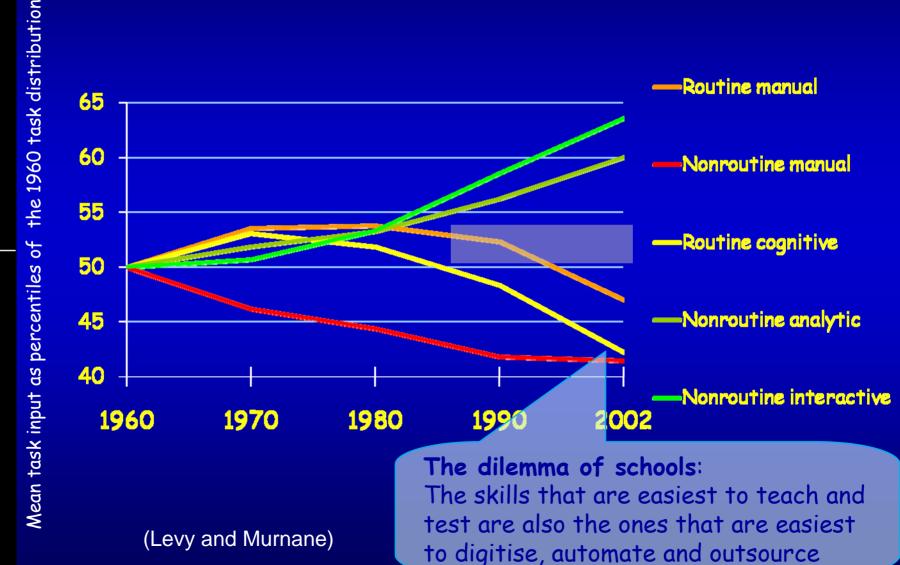
Moving targets Future supply of high school graduates





How the demand for skills has changed

Economy-wide measures of routine and non-routine task input (US)



Deciding what to assess...

looking back at what students were expected to have learned

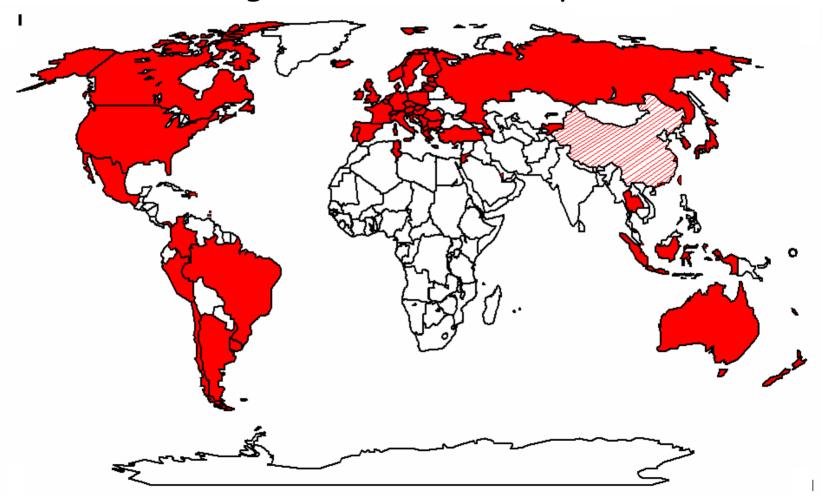
...or...

looking ahead to how well they can extrapolate from what they have learned and apply their knowledge and skills in novel settings.

For the PISA assessment of the knowledge and skills of 15-year-olds, OECD governments chose the latter

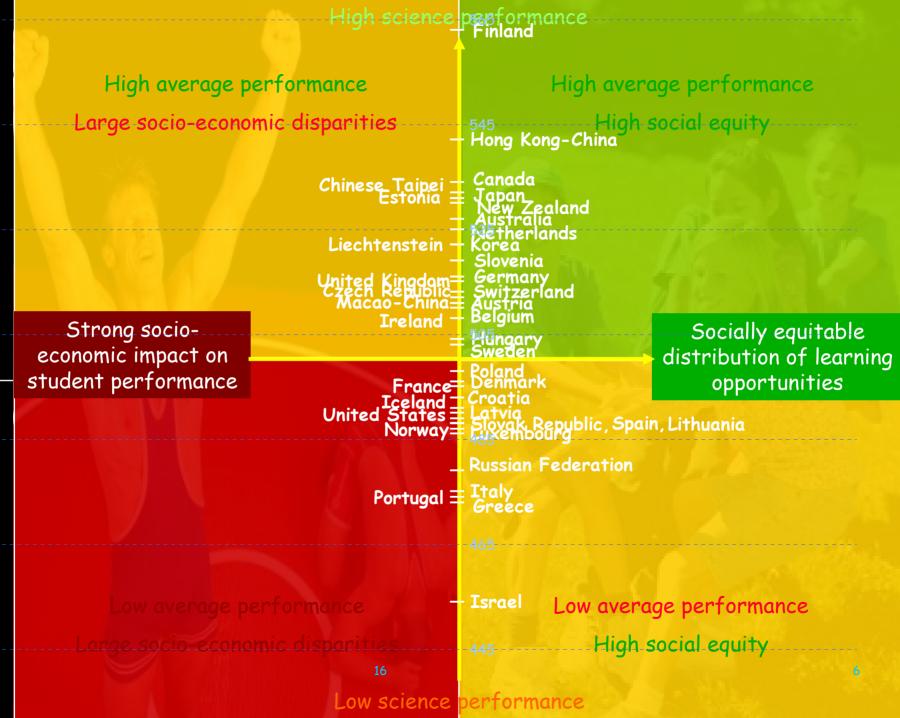
OECD's PISA assessment of the knowledge and skills of 15-year-olds

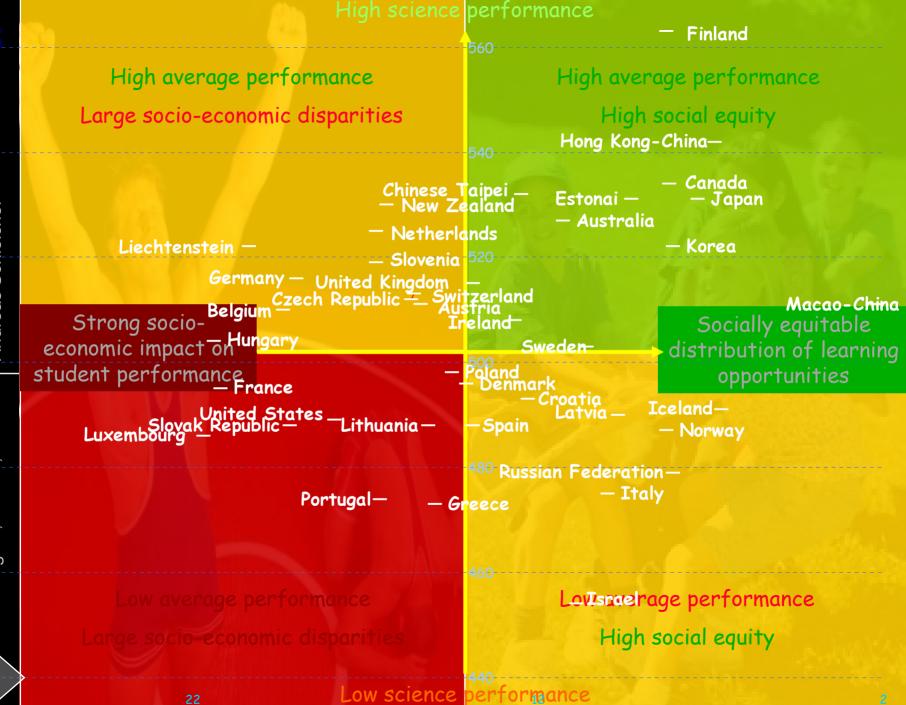
Coverage of world economy 87%





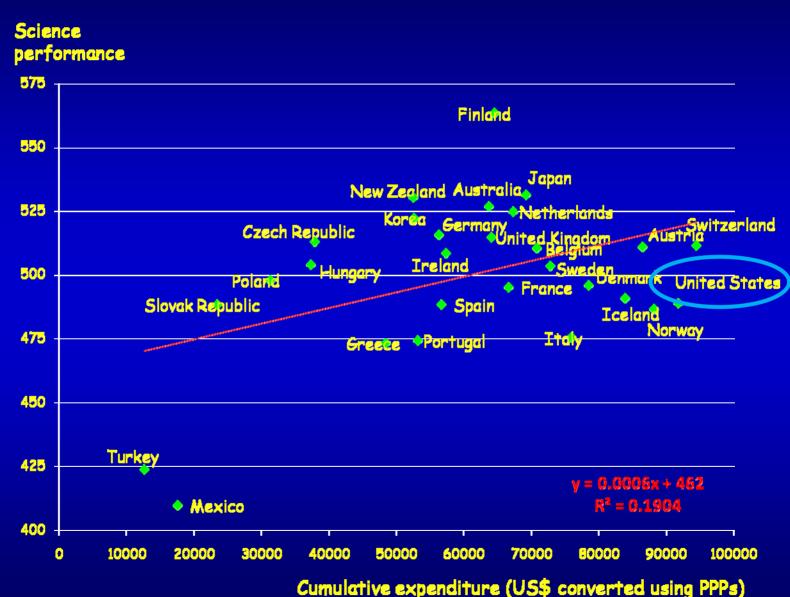
Low science performance





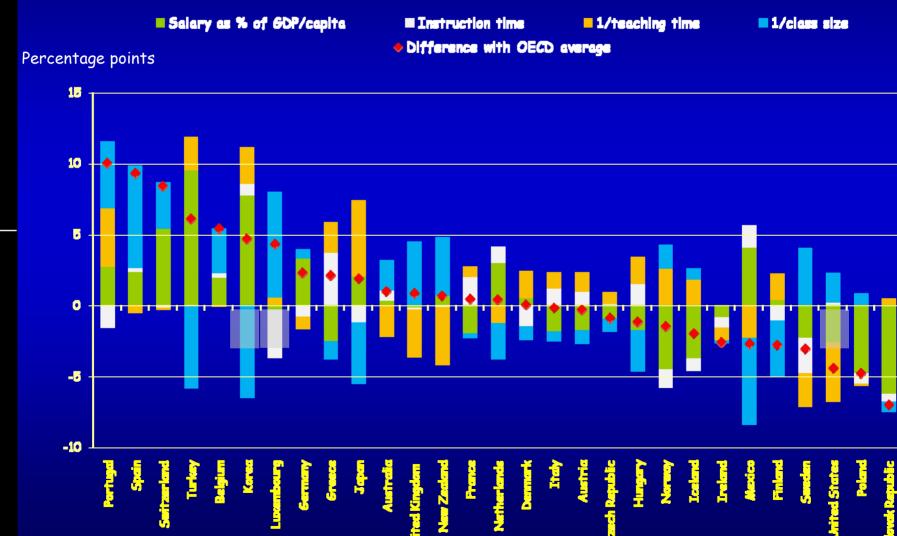


Money matters - but other things do too



Spending choices on secondary schools

Contribution of various factors to upper secondary teacher compensation costs per student as a percentage of GDP per capita (2004)



High ambitions and universal standards

Rigor, focus and coherence

Great systems attract great teachers and provide access to best practice and quality professional development

Challenge and support

Strong support

Poor performance

Improvements idiosyncratic

Strong performance
Systemic improvement

Low challenge

High challenge

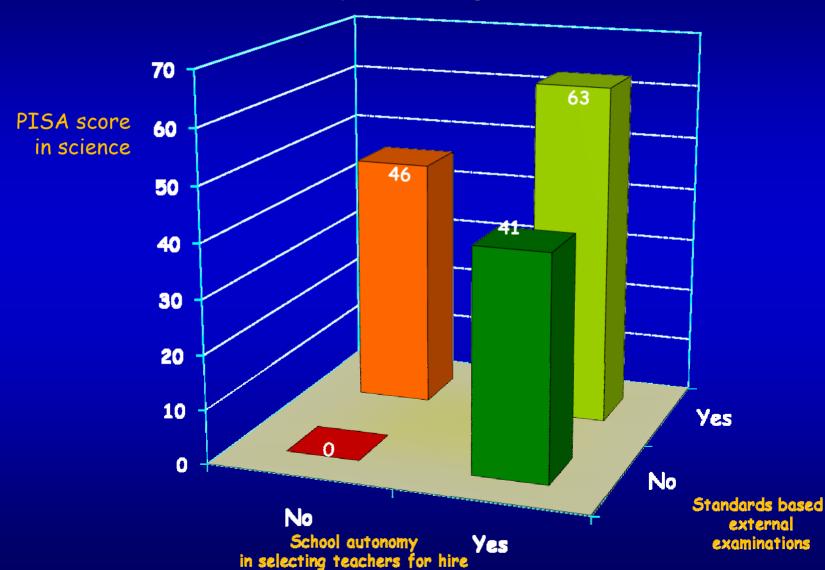
Poor performance Stagnation Conflict
Demoralisation

Weak support

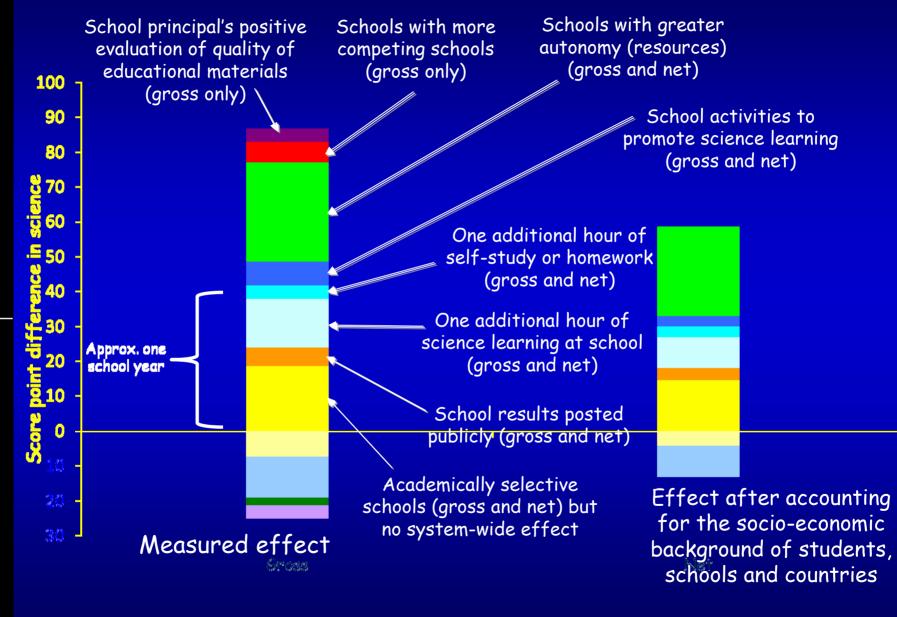


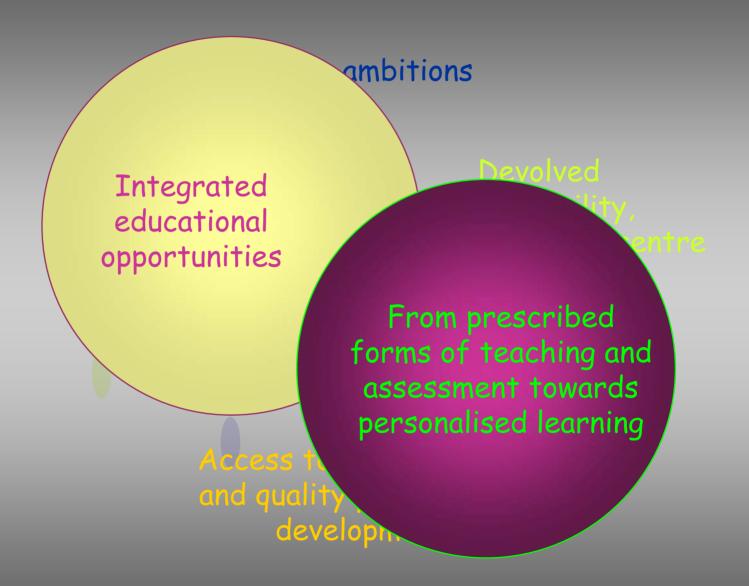
School autonomy, standards-based examinations and science performance

School autonomy in selecting teachers for hire



Pooled international dataset, effects of selected school/system factors on science performance after accounting for all other factors in the model





Paradigm shifts

The old bureaucratic education system	The modern enabling education system
Hit & miss	Universal high standards
Uniformity	Embracing diversity
Provision	Outcomes
Bureaucratic - look up ·····	Devolved - look outwards
Talk equity	Deliver equity
Received wisdom	Data and best practice
Prescription	Informed profession
Demarcation	Collaboration



High policy value

Must haves

Bridging gap between formative and summative assessment.

Extending the range of competencies through which quality is assessed (including ICT)

Measuring growth in learning

Low feasibility

Quick wins

Examine individual, institutional and systemic factors associated with high performance

Monitor educational progress

High feasibility

Establish the relative standing of countries in terms of quality and equity in basic school subjects

Low-hanging fruits

Money pits

Low policy value

Why care?

r Progress

- Concerns about skill barriers to economic growth, productivity growth and rates of technological innovation
 - One additional year of education equals to between 3 and 6% of GDP
 - Rising tertiary level qualifications seem generally not to have led to an "inflation" of the labour-market value of qualifications (in all but three of the 20 countries with available data, the earnings benefit increased between 1997 and 2003, in Germany, Italy and Hungary by between 20% and 40%)

r Fairness

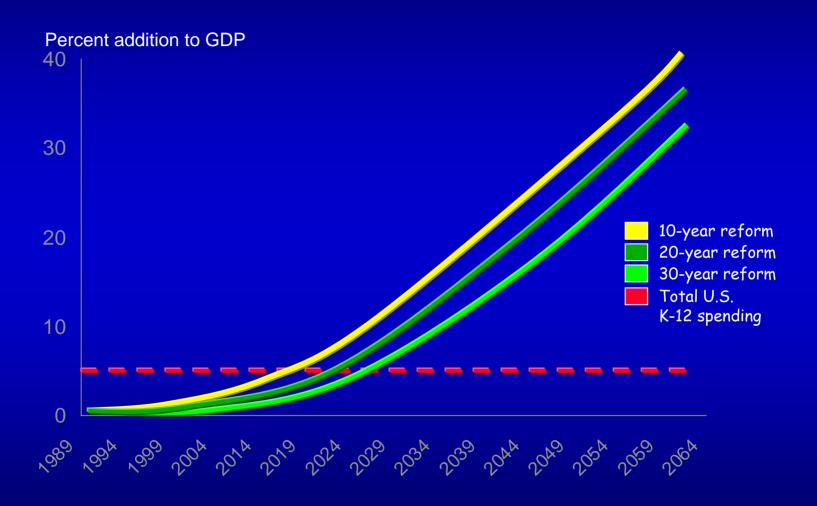
- Concerns about the role of skills in creating social inequity in economic outcomes
 - Both average and distribution of skill matter to long-term growth (high percentages of low skill impede growth)

r Value for money

• Concerns about the demand for, and efficiency and effectiveness of, investments in public goods

The cost of inaction

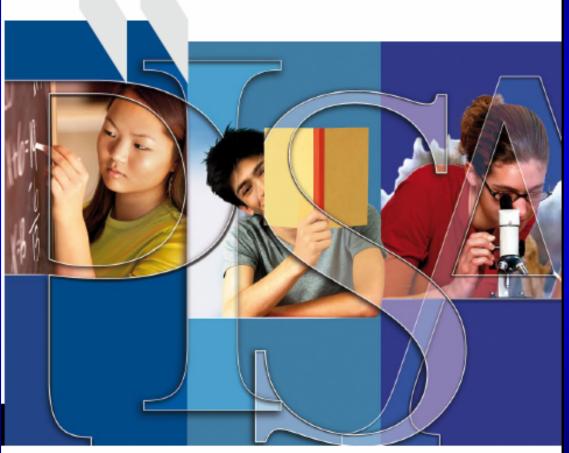
Improved GDP from achieving the goal of being first in the world by 2000



Note: *K-12 education expenitures are assumed to be constant at the level attained in 2005. These data show that economic benefits from a 1989 reform that raised the U.S. to the highest levels of test performance would cover the cost of K-12 education by 2015 Source: Eric Hanushek

PISA Data Analysis Manual

SAS® SECOND EDITION



Programme for International Student Assessment



- www.oecd.org; www.pisa.oecd.org
 - All national and international publications
 - The complete micro-level database
- email: pisa@oecd.org

Thank you!

... and remember:

Without data, you are just another person with an opinion