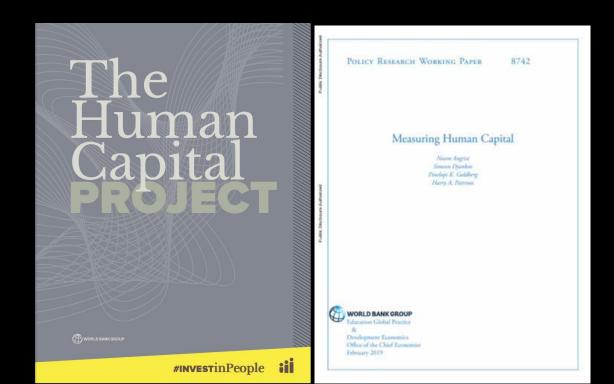
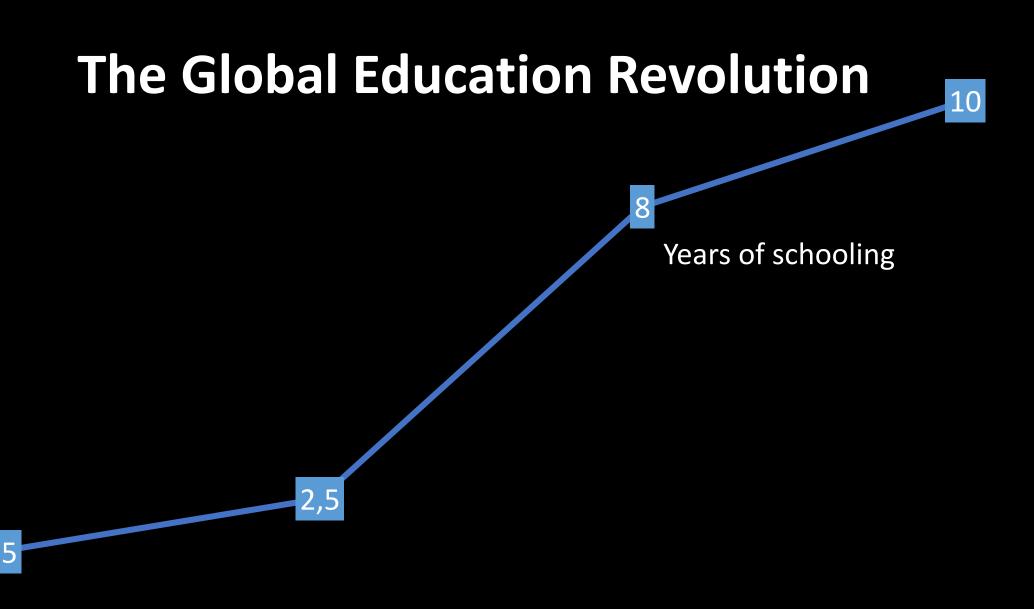
Global Challenges and Policy Responses

Harry Anthony Patrinos @hpatrinos World Bank

The Education System and the Economy: Building Human Capital in Greece
Wednesday, 9 October 2019
Cotsen Hall, Gennadius Library, Athens

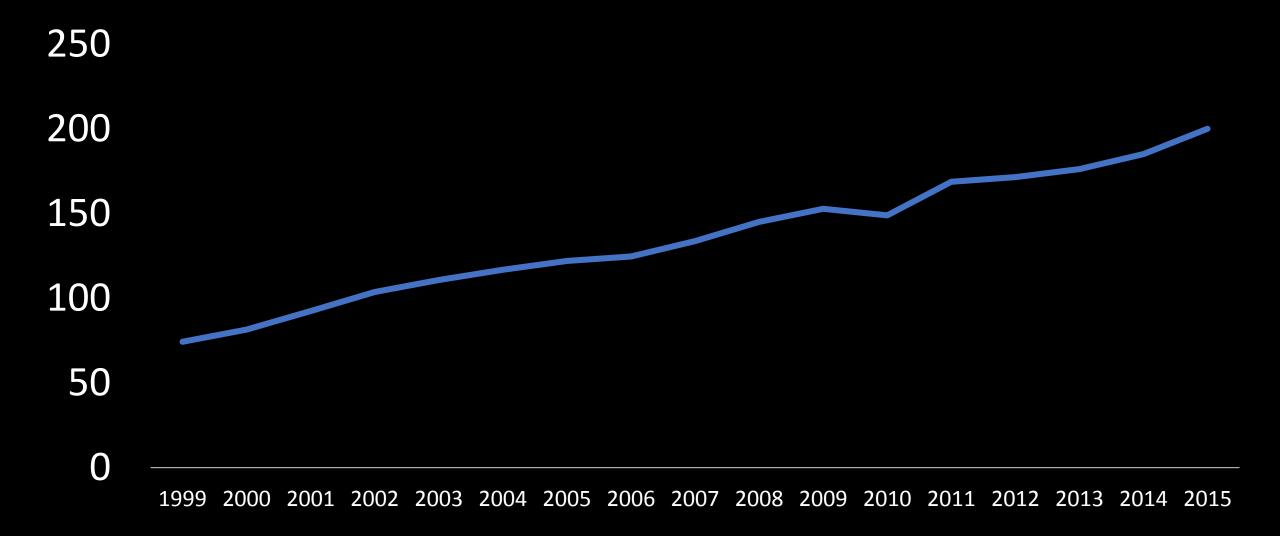
Global Challenges and Policy Responses



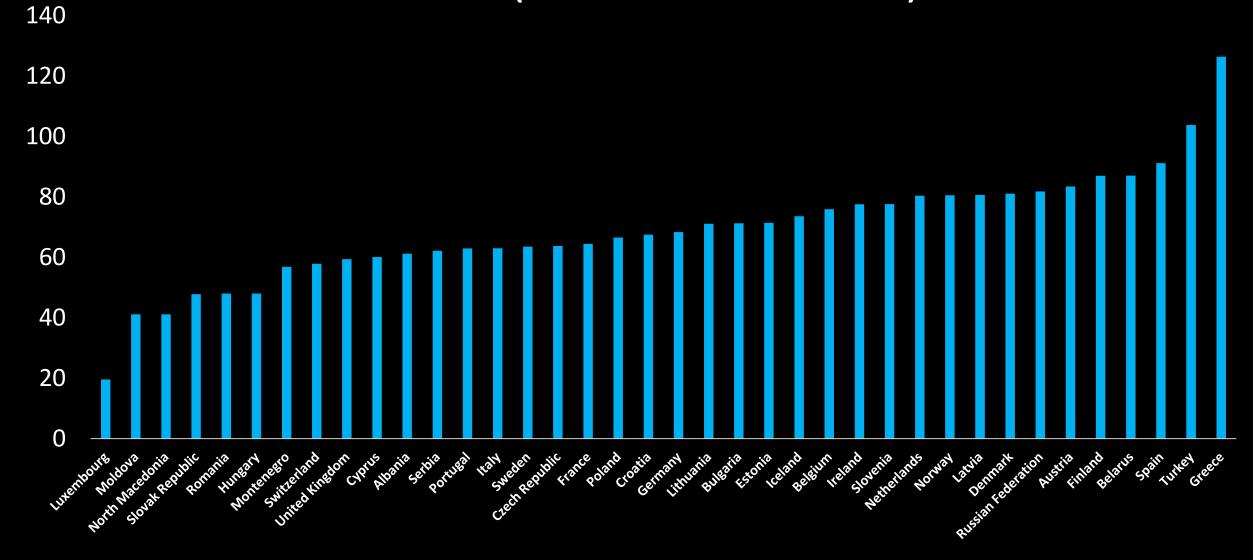


1900 1950 2000 2050

Global Enrollment in Tertiary Education is Increasing (millions of students)

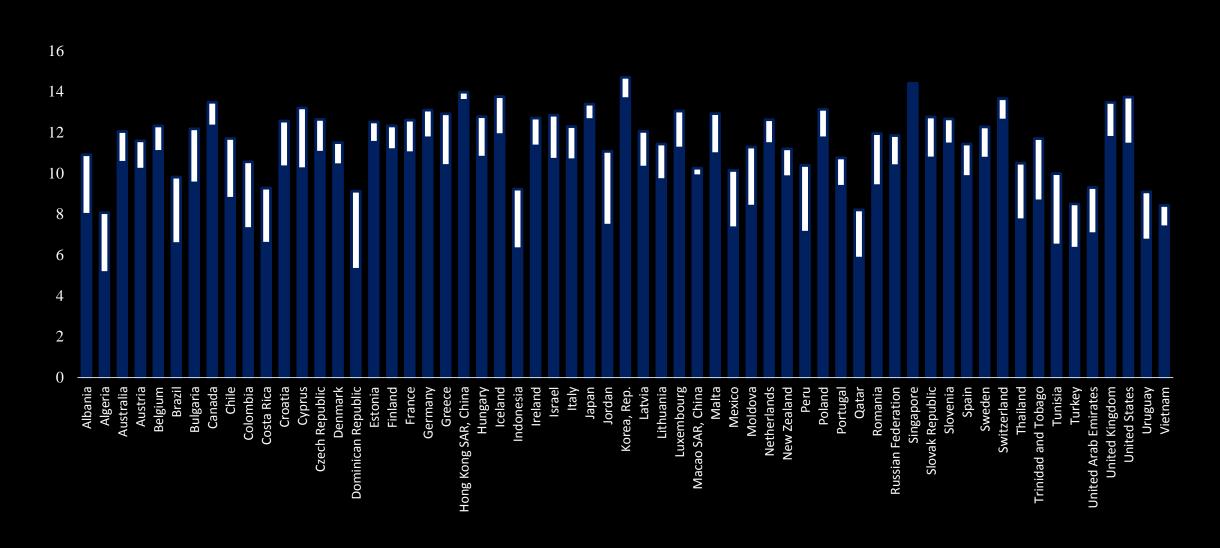


Tertiary Enrollment Rates in Europe 2016(or latest available)



Years of Schooling are not the same as Learning

Average years of schooling of 25-29 year olds, unadjusted and adjusted for learning



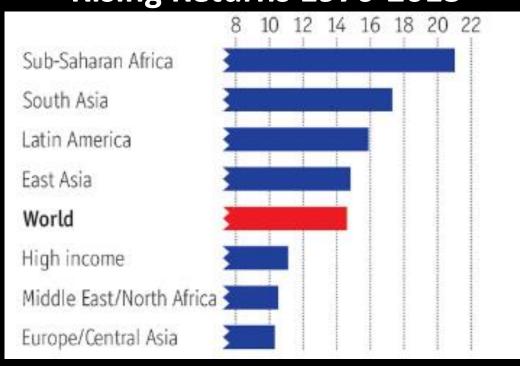


Every year of schooling raises earnings by 10%

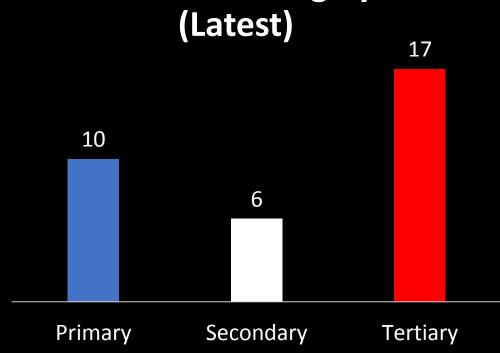


Private Rates of Return to Education

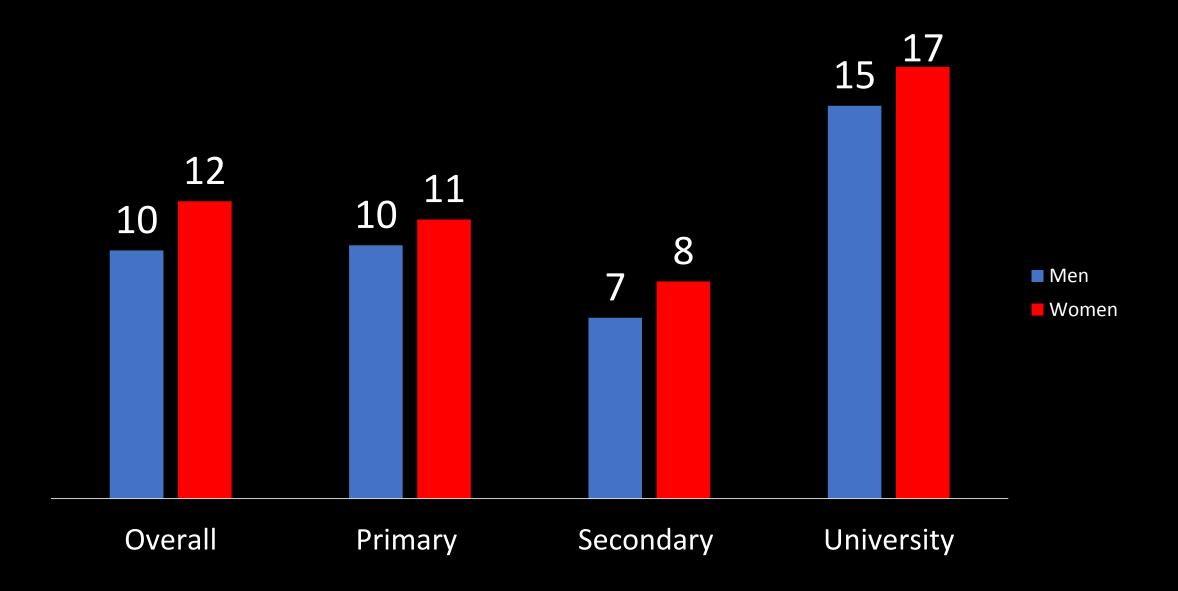
Rising Returns 1970-2013



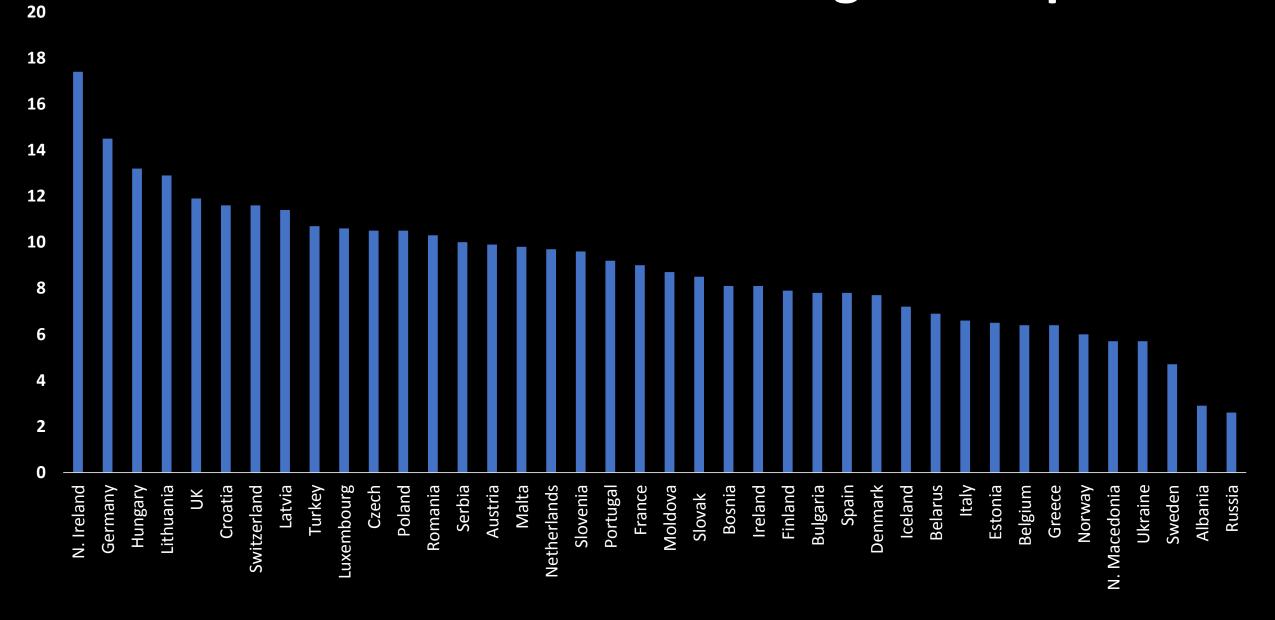




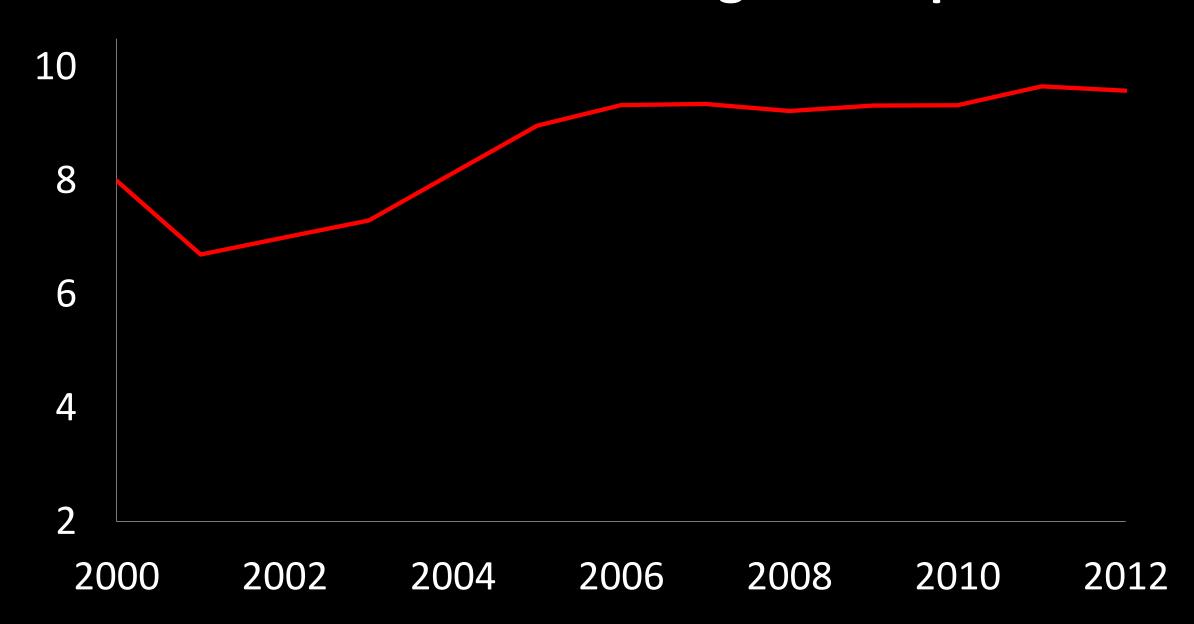
Returns Higher for Women – Global



Private Returns to Schooling in Europe



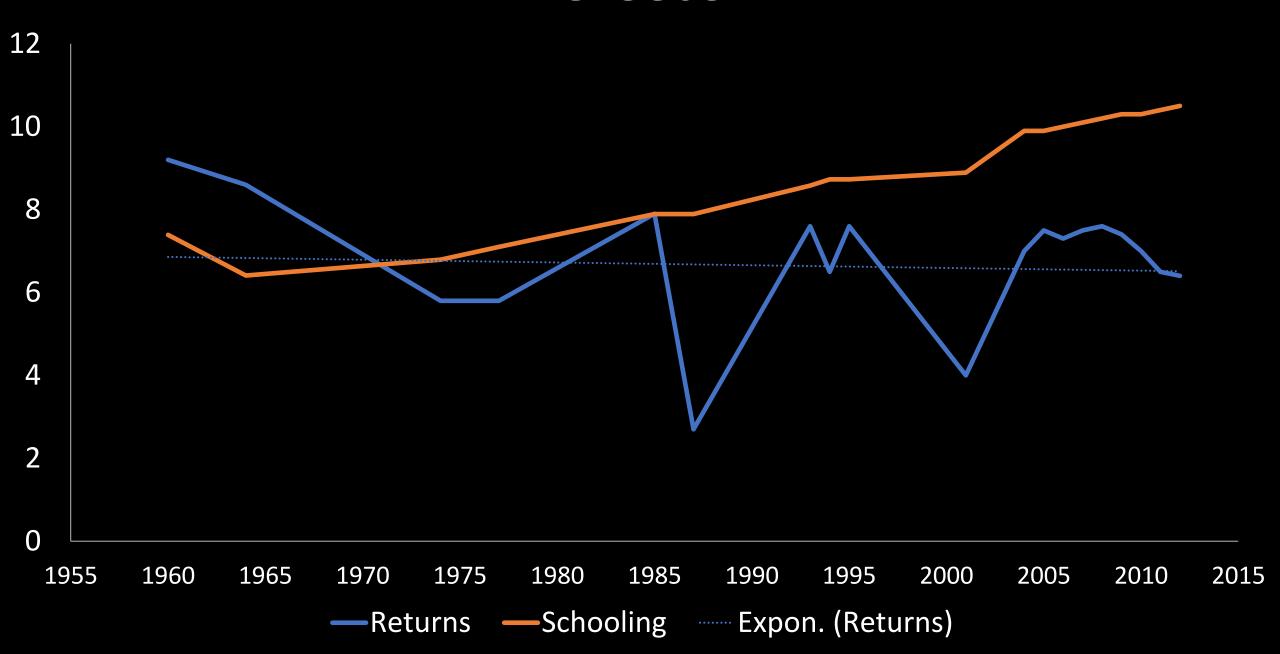
Returns to Schooling in Europe



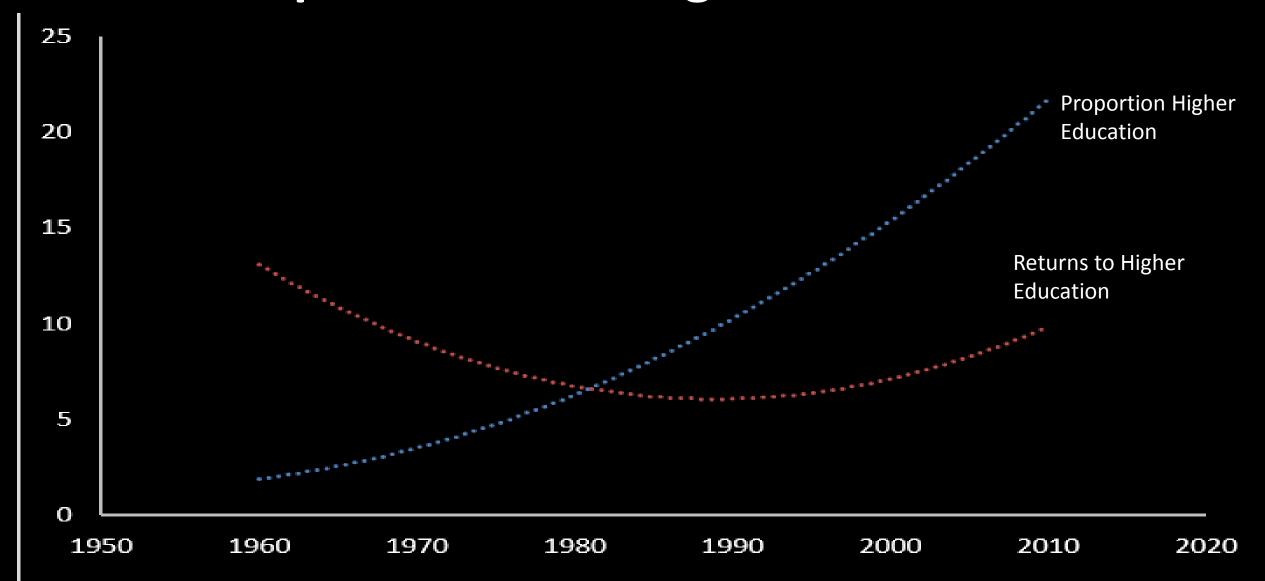
Private Returns to Schooling & Growth in Europe



Greece



Returns to Higher Education & Proportion of Population with Higher Education



Returns to Other Investments



Treasury Bill 1.4



Treasury Bond **5 3**



Bank deposit rates 4.7



10



Housing 3.8

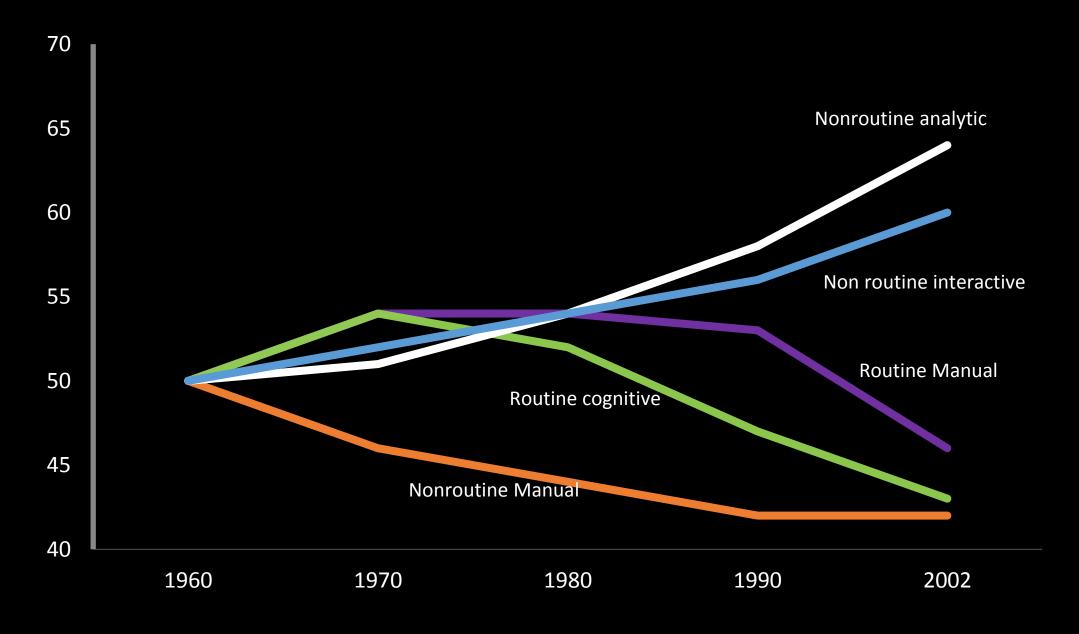


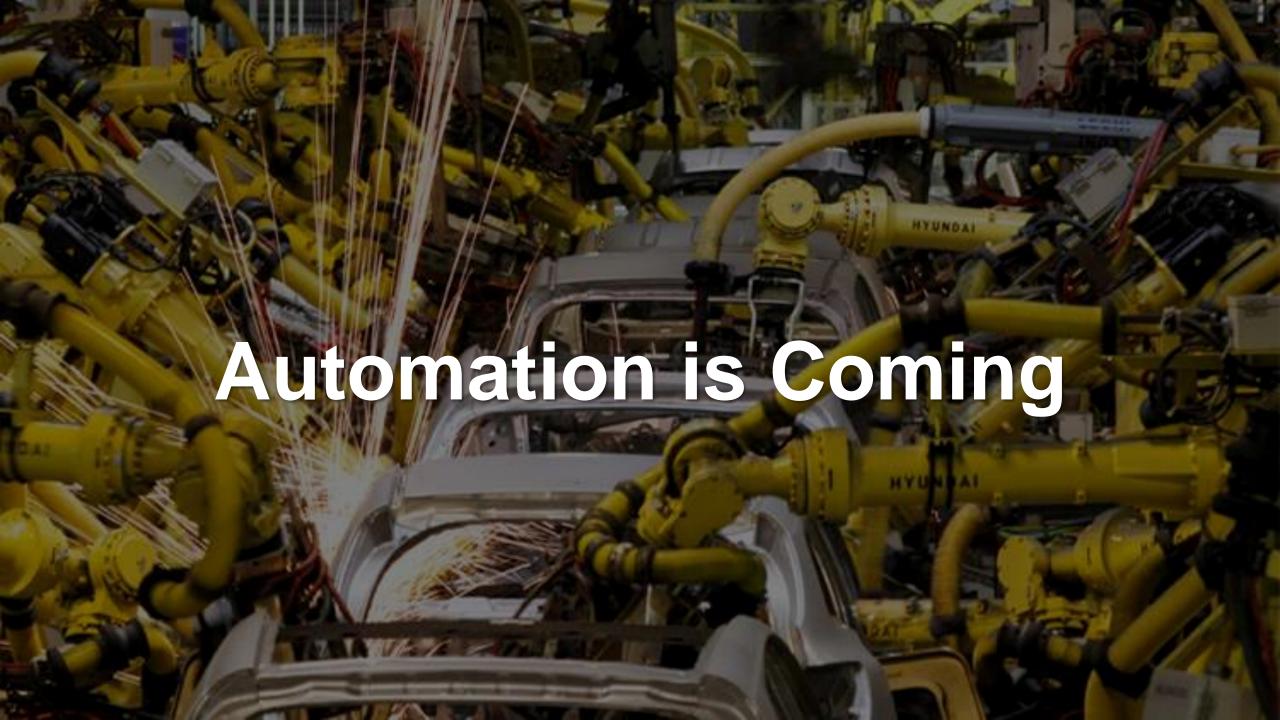
Physical assets

7.4

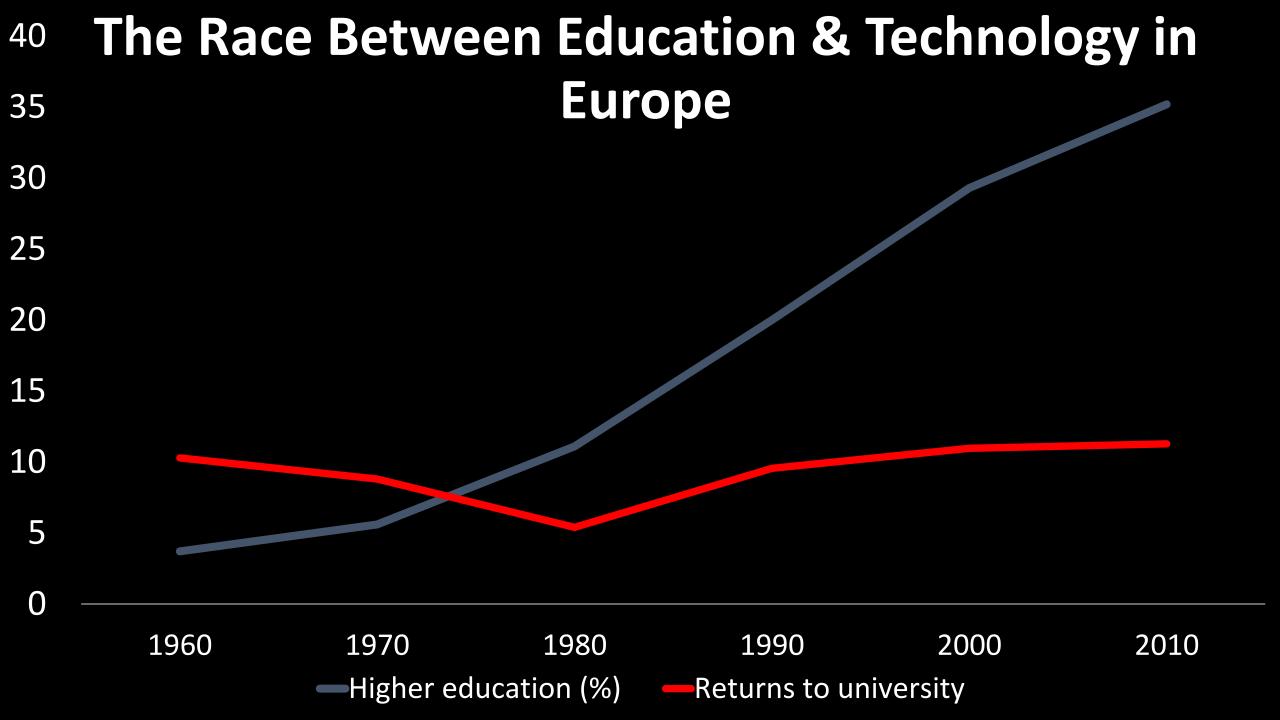


Type of Skills Demanded Changing



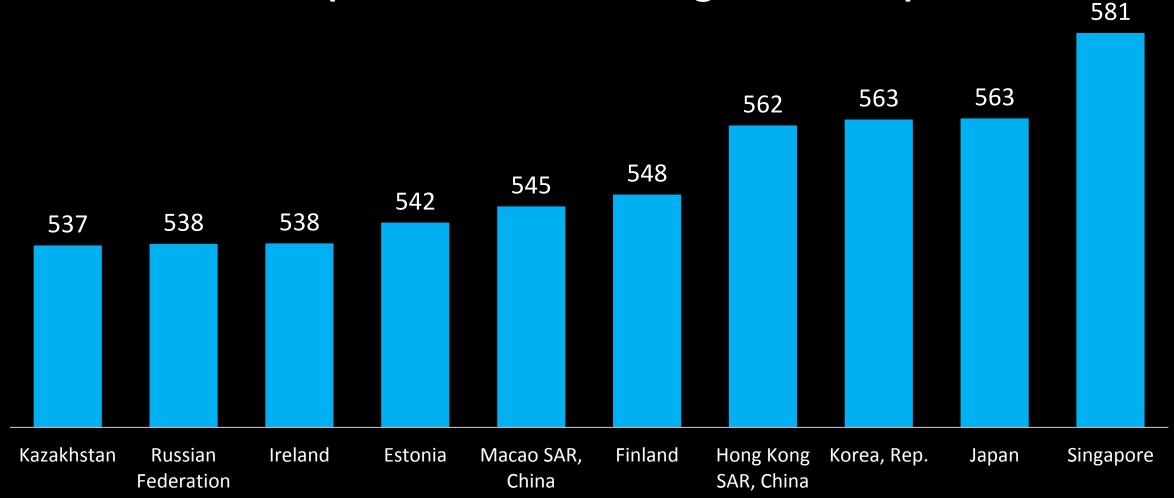




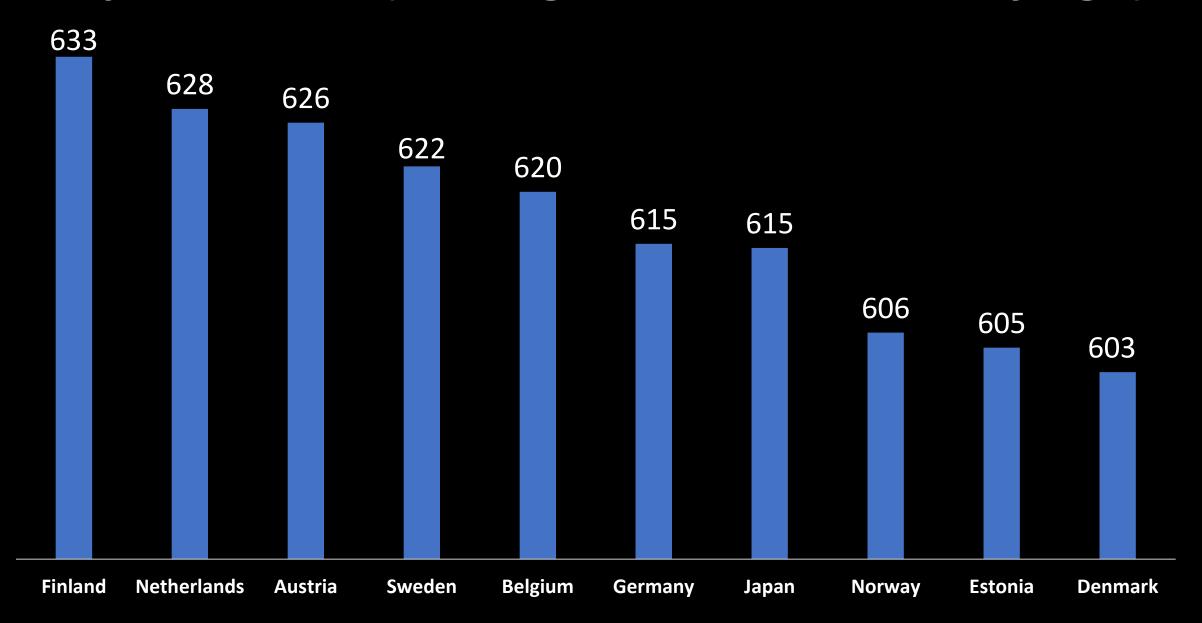


Top Performers Learning Outcomes

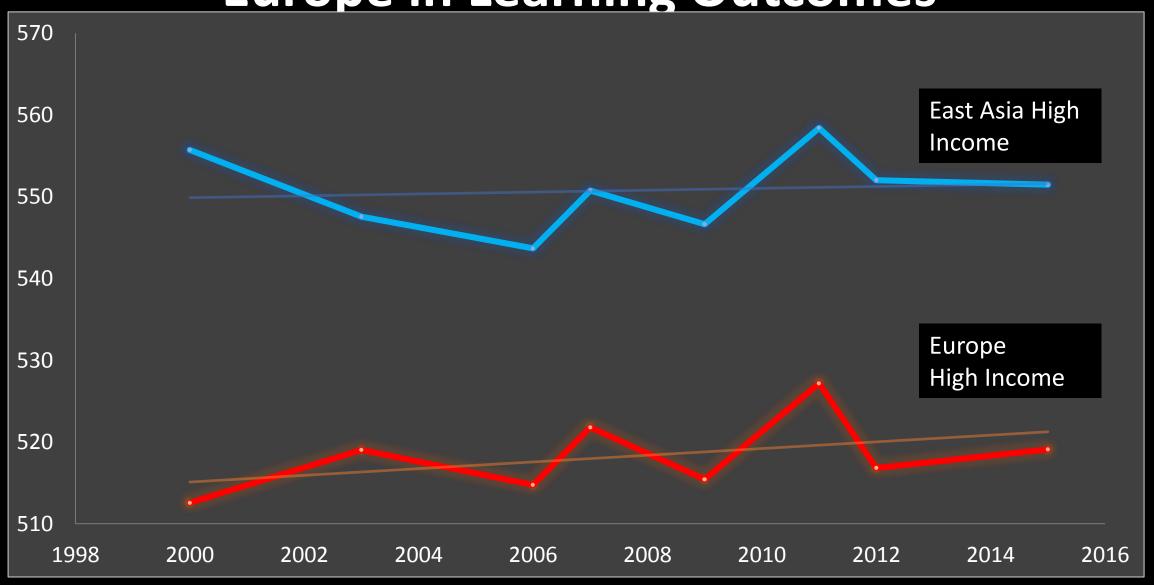
HLO (Harmonized Learning Outcomes)



Top 10 PIAAC (among those of university age)

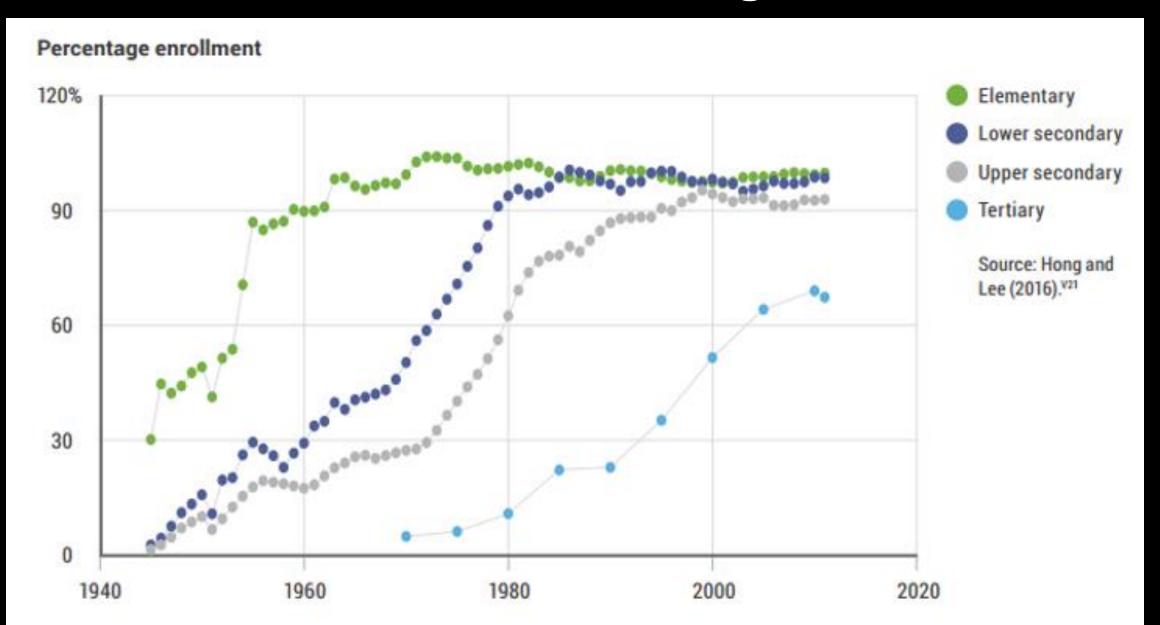


High-income East Asia performs above High-income Europe in Learning Outcomes



What can we do?

Get the Basics Right









Invest in Relevant Skills

Problem-solving

Learning

Communication

Personal

Social





Today

Under 20% of jobs require programming or technology design

Over 80% of jobs require service orientation and persuasion skills.

Build Education 4.0



1st

Schoolhouse, teacher, students



2nd

Collaboration, technology, facilitator



3rd

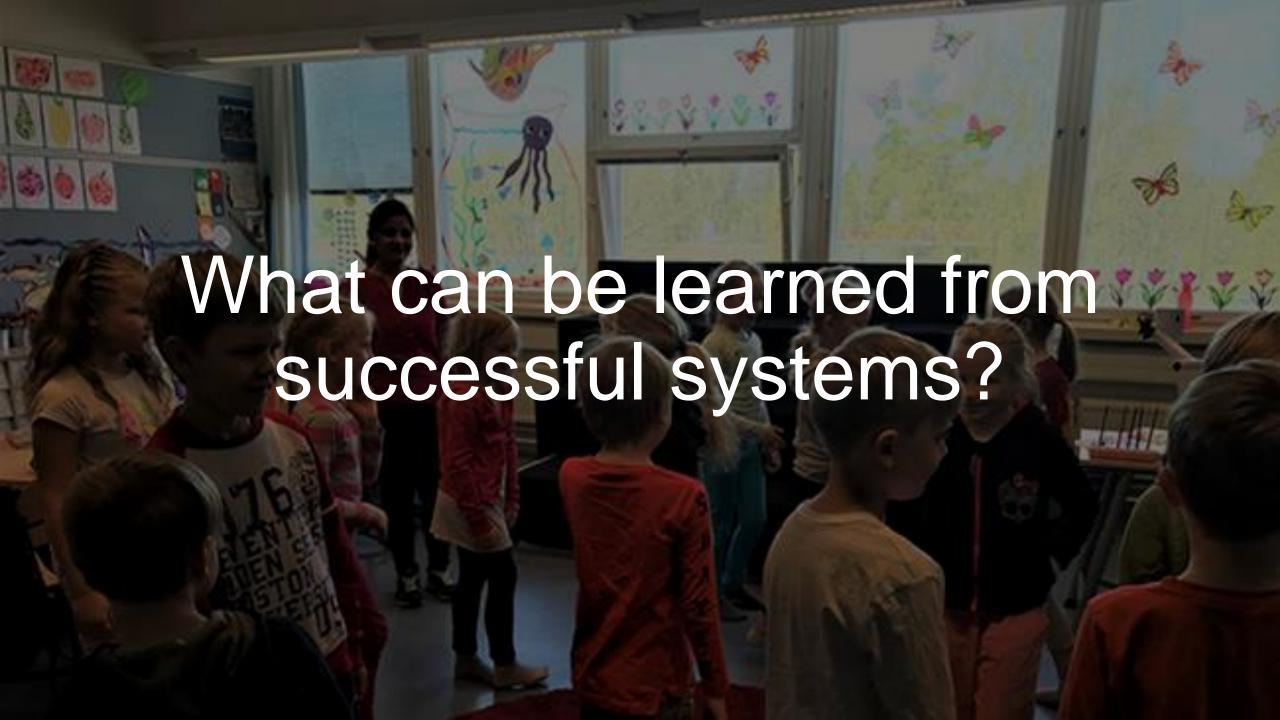
Connected, personalized, open access



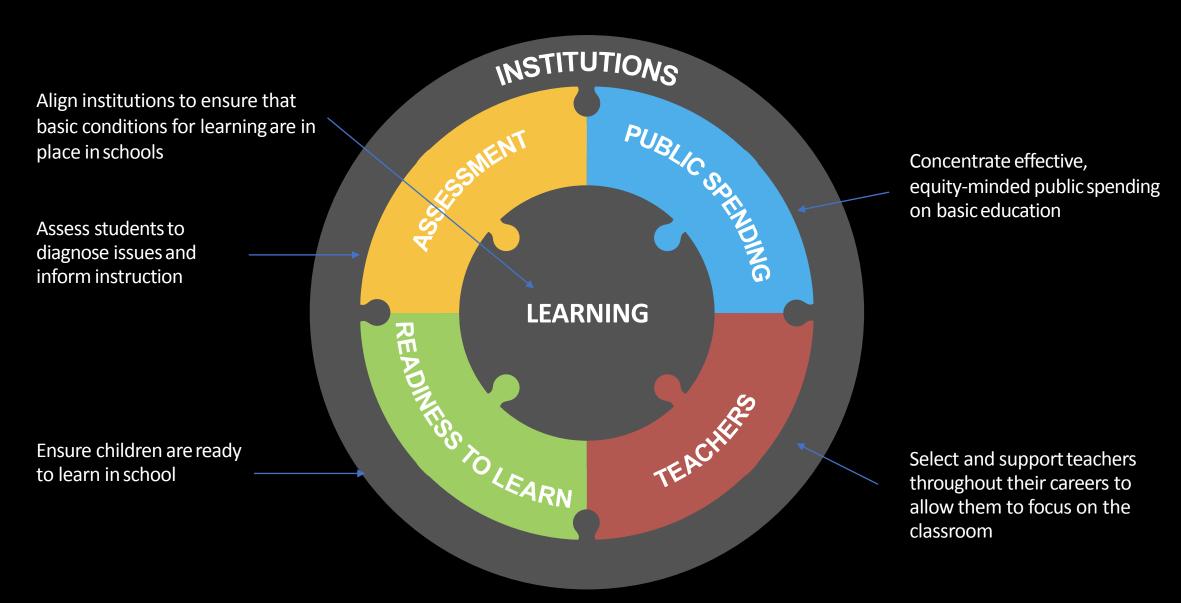
4th

Lifelong learning driven by autonomy & purpose



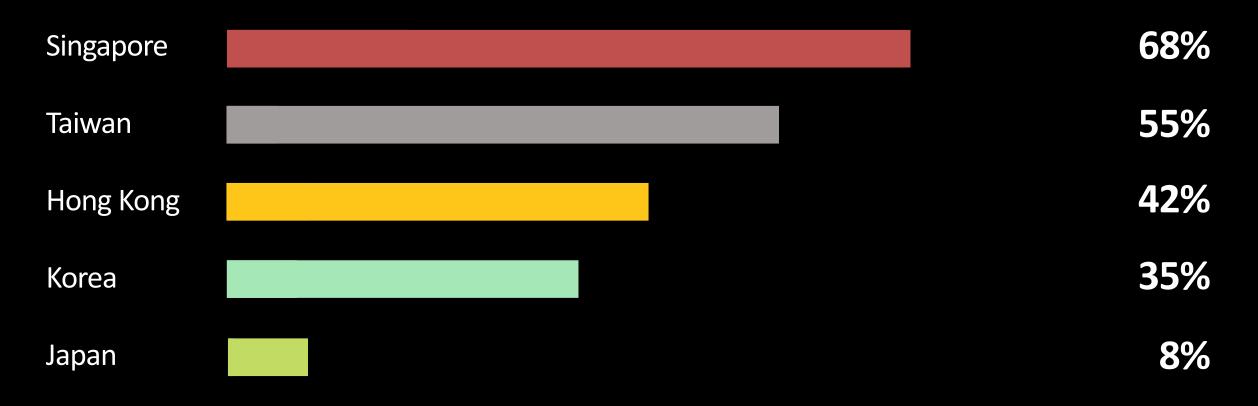


5 Key Policy Domains



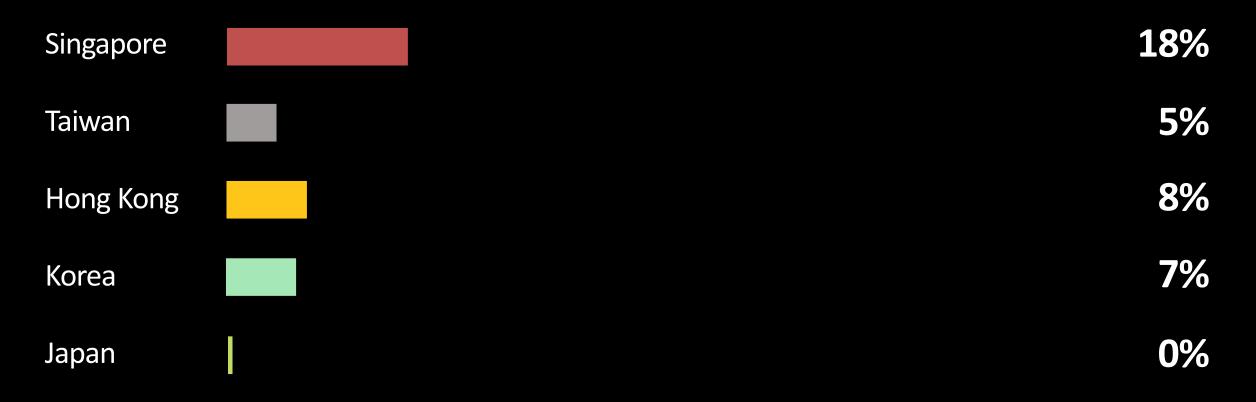
Top Performing systems had an unshakeable commitment to developing skills for prosperity

Percent of population with no schooling in 1950



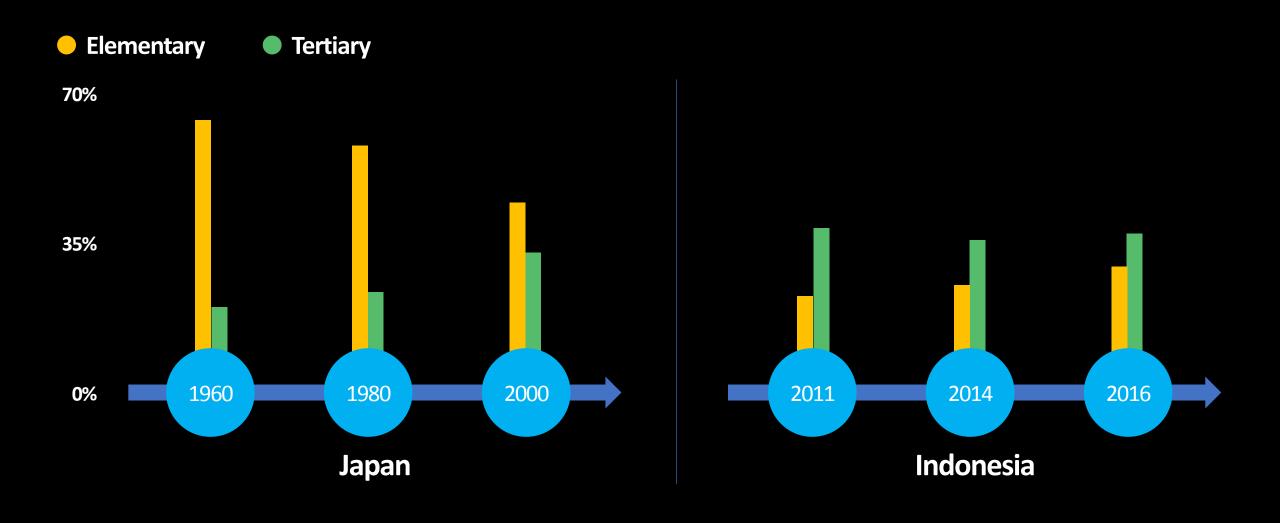
Top Performing systems had an unshakeable commitment to developing skills for prosperity

Percent of population with no schooling in 2010



Below-Average Systems Struggle to Focus Spending on Basic Education

Percent of government education spending



Successful systems recruit and develop the best to become teachers



In **Japan**, only 14% of applicants to education programs are accepted; only about 30–40% of graduates are hired annually



In **Singapore**, the government recruits the top one-third of university graduates to become teachers



In **Korea**, only 1 in 20 passes the exams for employment to become a teacher



In **Taiwan, China** typically only the top third of applications are accepted into education programs which are highly competitive

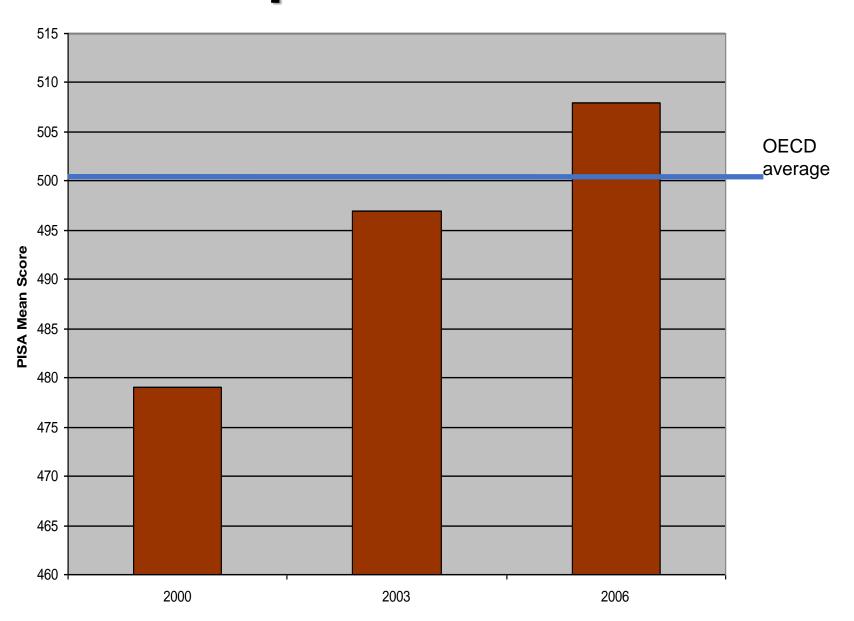


Poland: Change in Structure of System

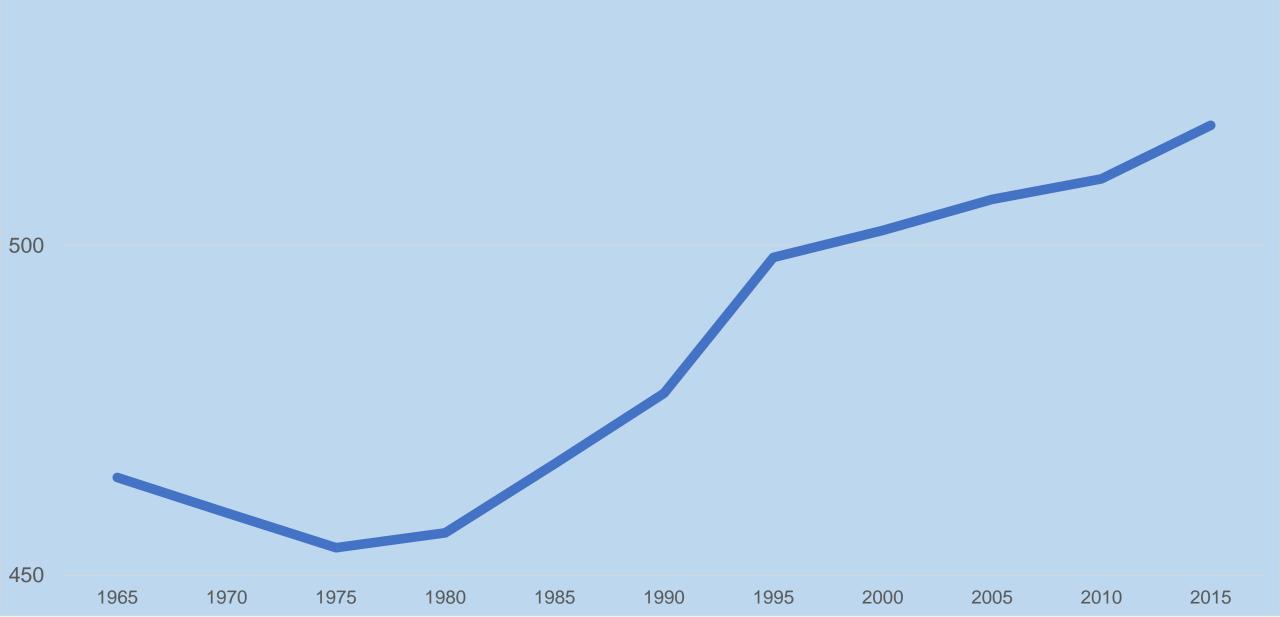
- New structure of school system
- Changes in administration & supervision
- Curricular reform
- Independent assessment & examination
- School finance
- Qualification requirements for teachers



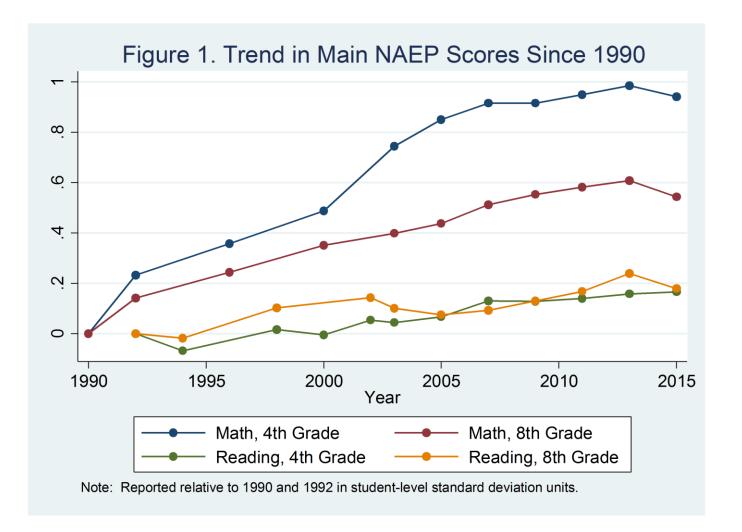
Impressive Gains





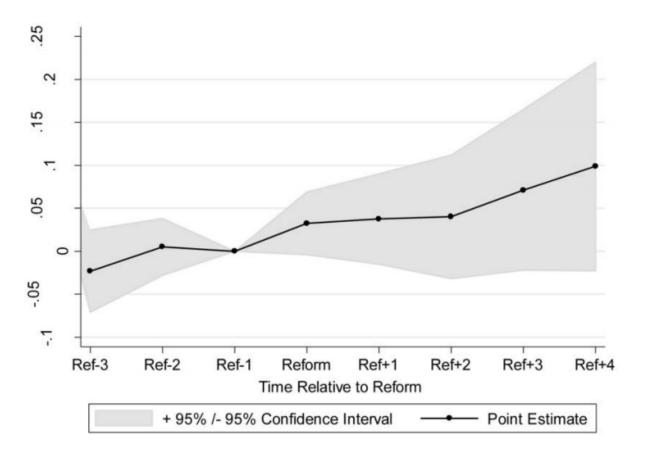


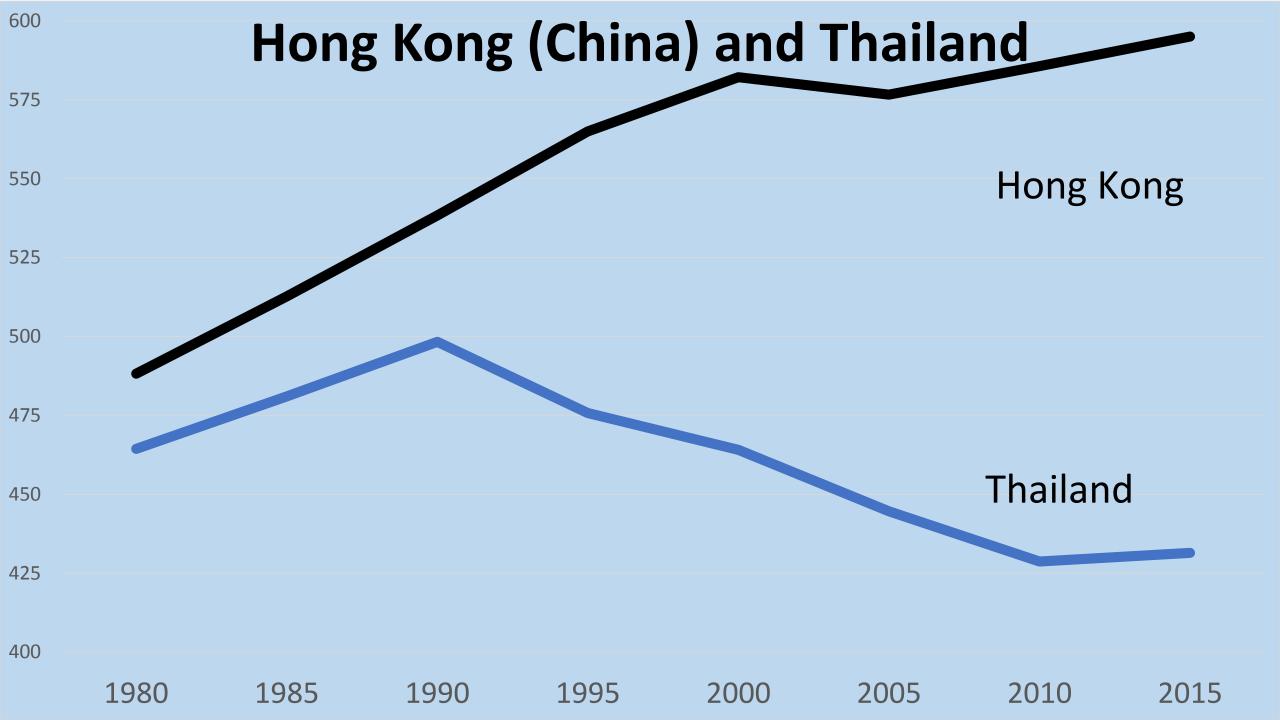
USA: A Nation at Risk

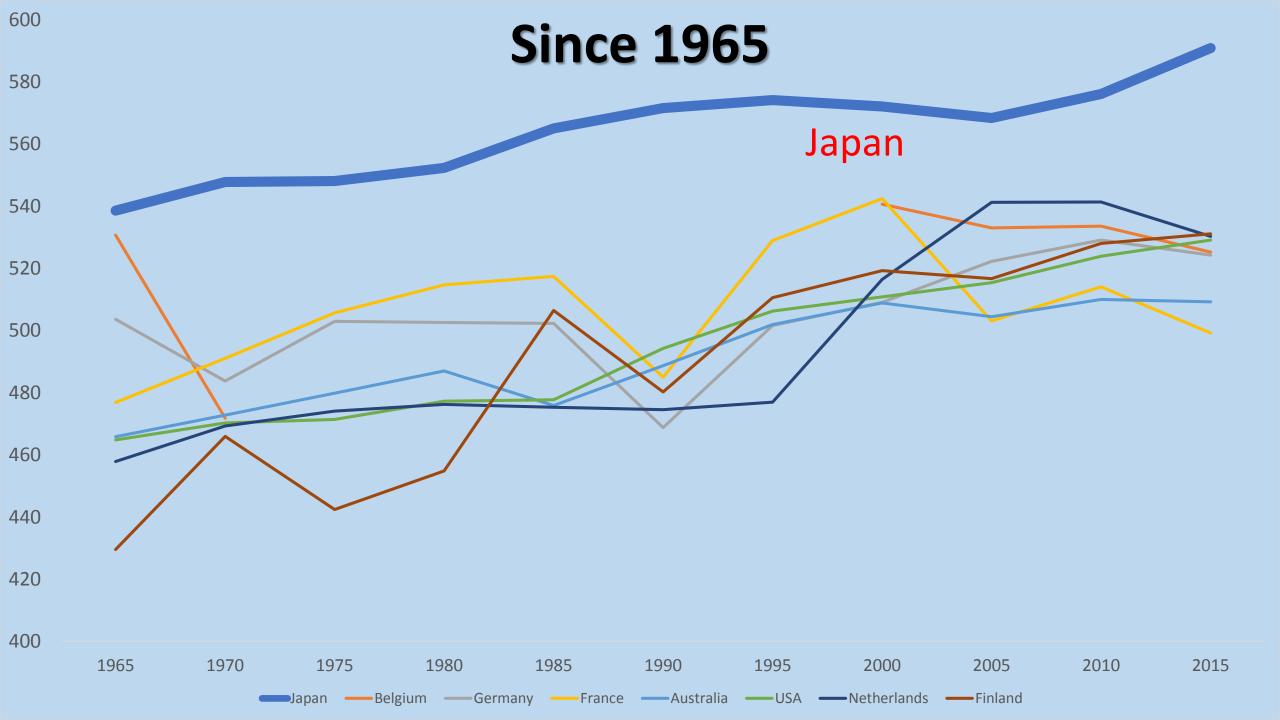




Finland: School Tracking & Development of Cognitive Skills









Focus on Results



Expand
Opportunities
but Pay
Attention to
Equity



Thank you

Harry Anthony Patrinos ohpatrinos