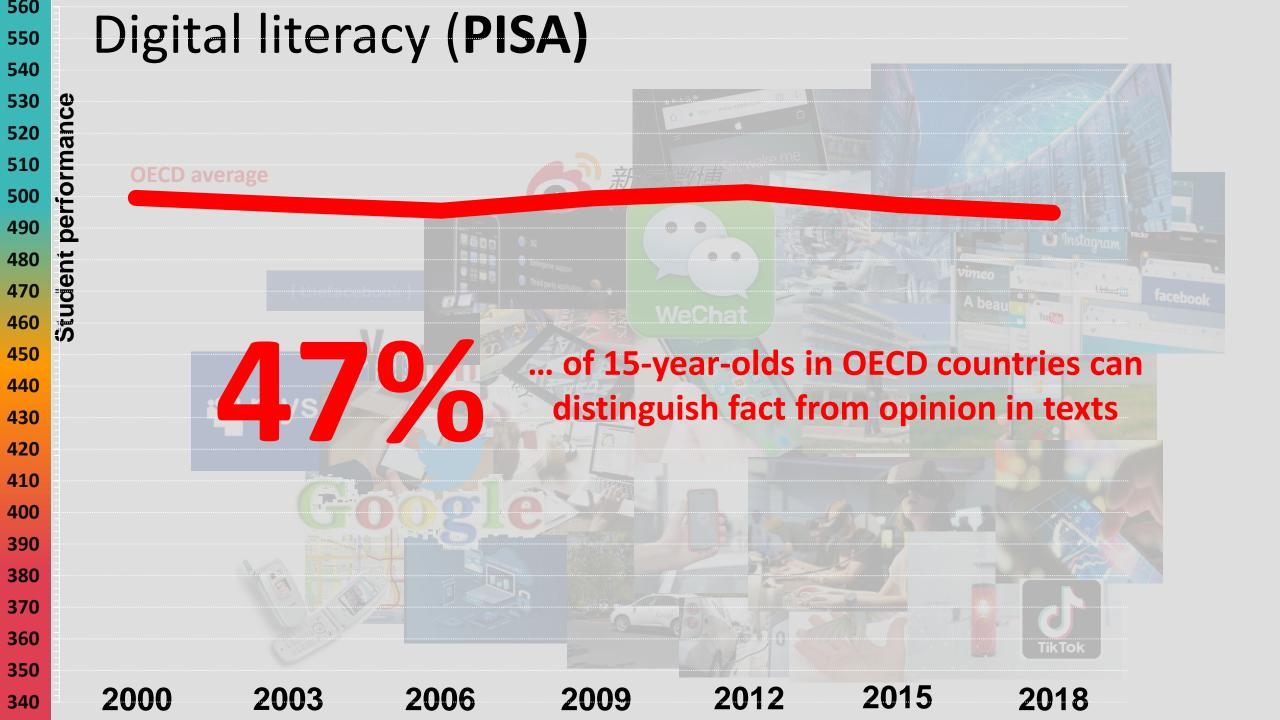
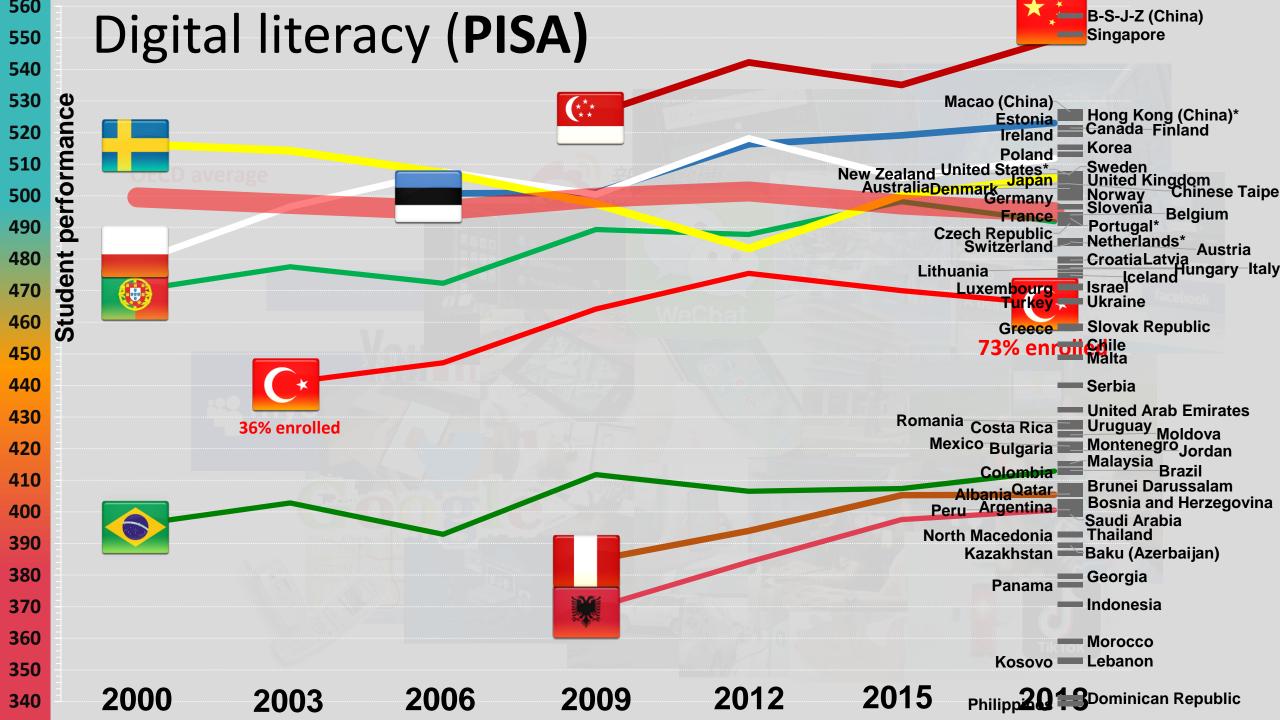
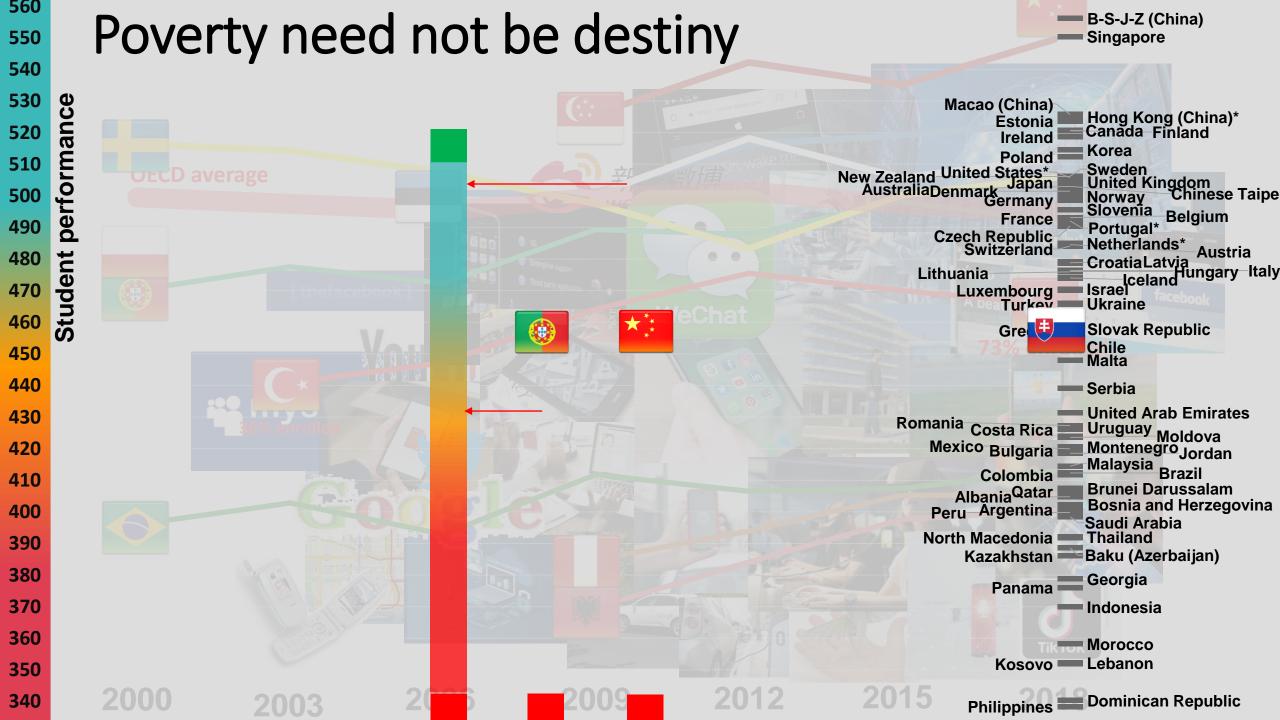


Ensuring that education systems equip all people with the skills needed for success in the future

OECD 2022 Skills Summit
Andreas Schleicher

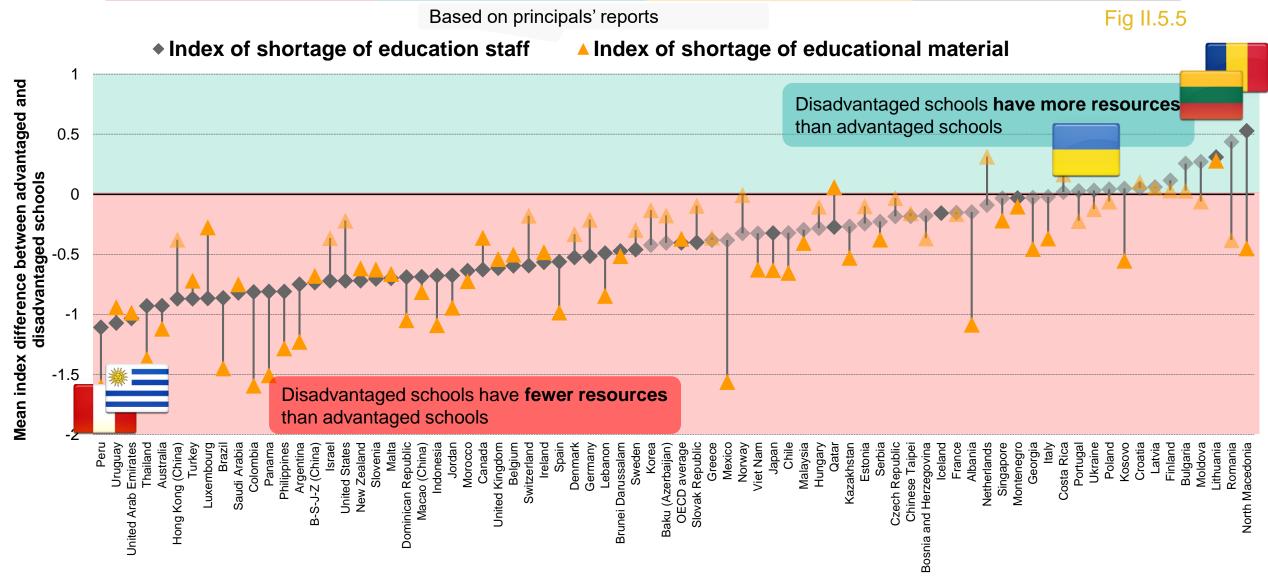






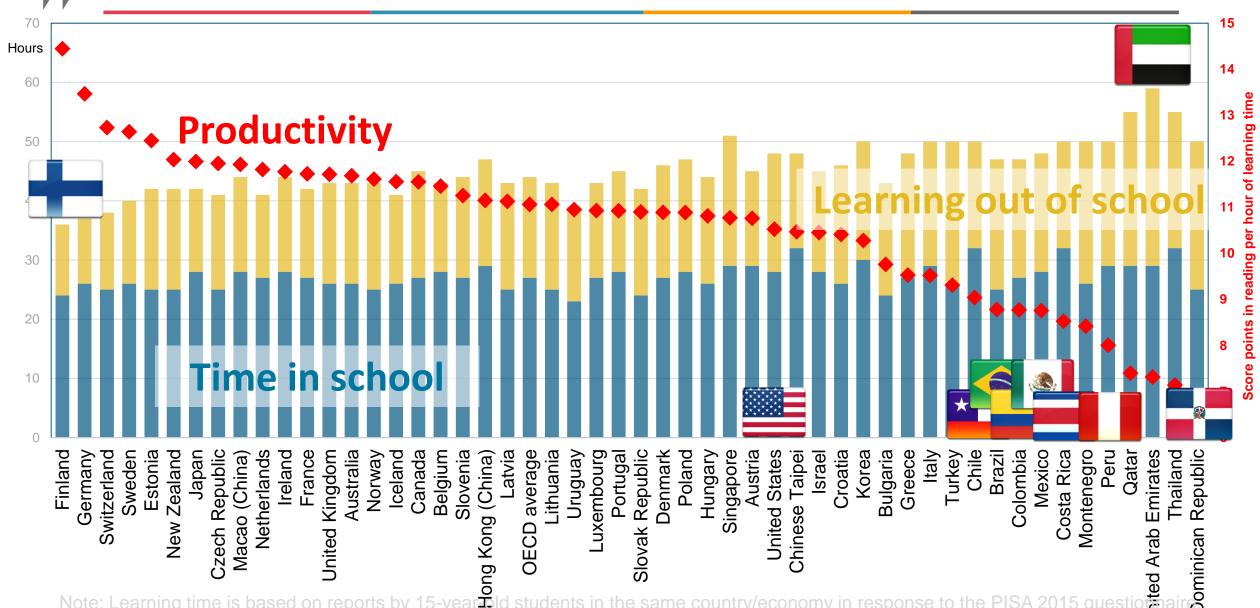


Few systems align resources with needs





It's not lack of learning time, it's lack of productivity



Note: Learning time is based on reports by 15-year old students in the same country/economy in response to the PISA 2015 question are productivity is measured by score points in reading per hour of total learning time

New learning experiences

 Many online and distance learning and other innovative approaches such as AR, VR and AI were created, adapted and expanded.



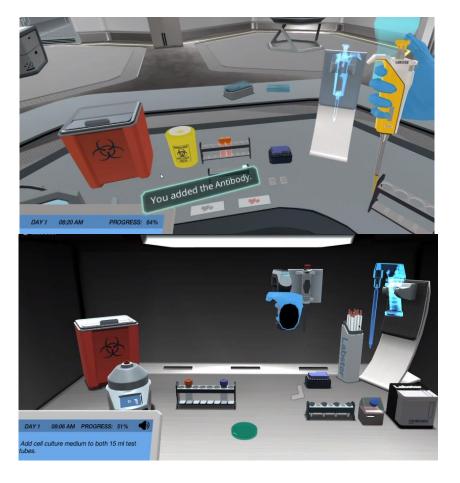


Image sources: Electude Classroom and Labster Labs' virtual labs; Oxford University's LIFE project, a smartphonebased virtual learning platform

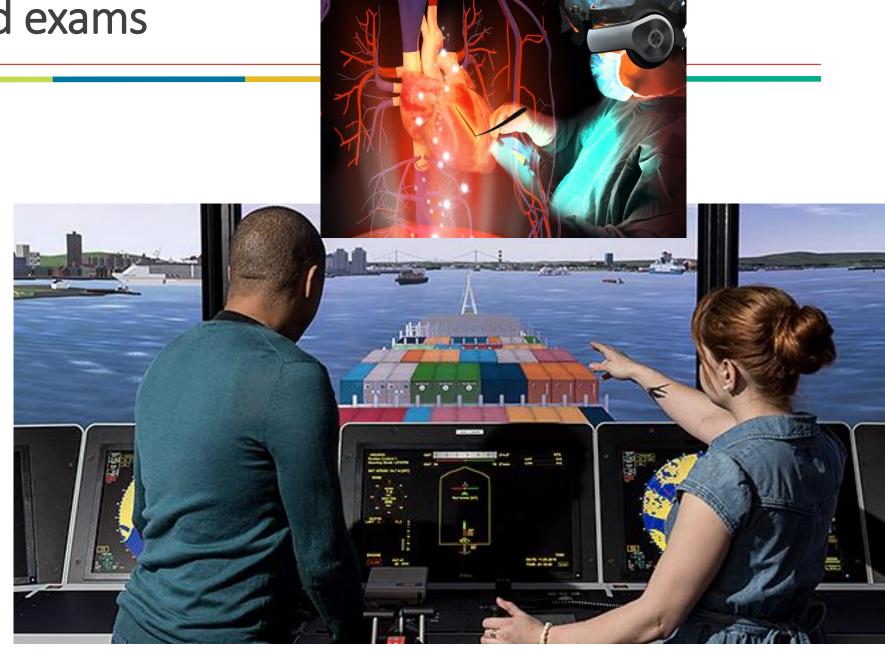
Learning analytics

- Learning analytics helps educators personalise learning
 - in real time
 - as a reflective tool
- Data come from sensors, learning management systems and digital activities of learners
 - When should you shift to a new activity?
 - Are you losing the attention of learners?
 - How do you struture instruction time (lecture, small group, discussion, assessment, practice, etc.)?
 - Which students do you talk to and support the most?



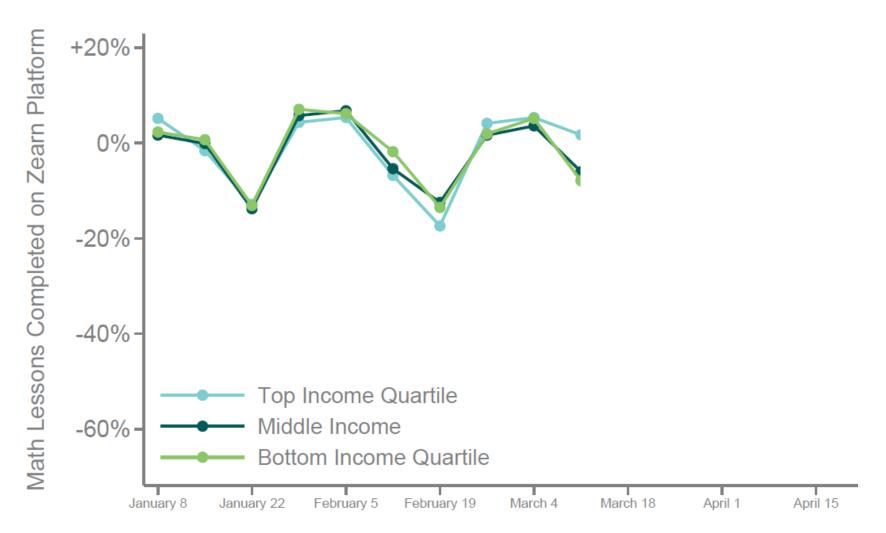
Assessments and exams

New types of assessments through simulations and games Adaptive assessments Hands-on assessment in vocational settings Increasing reliability of machine rating for essays Predictive models may disrupt the exam model





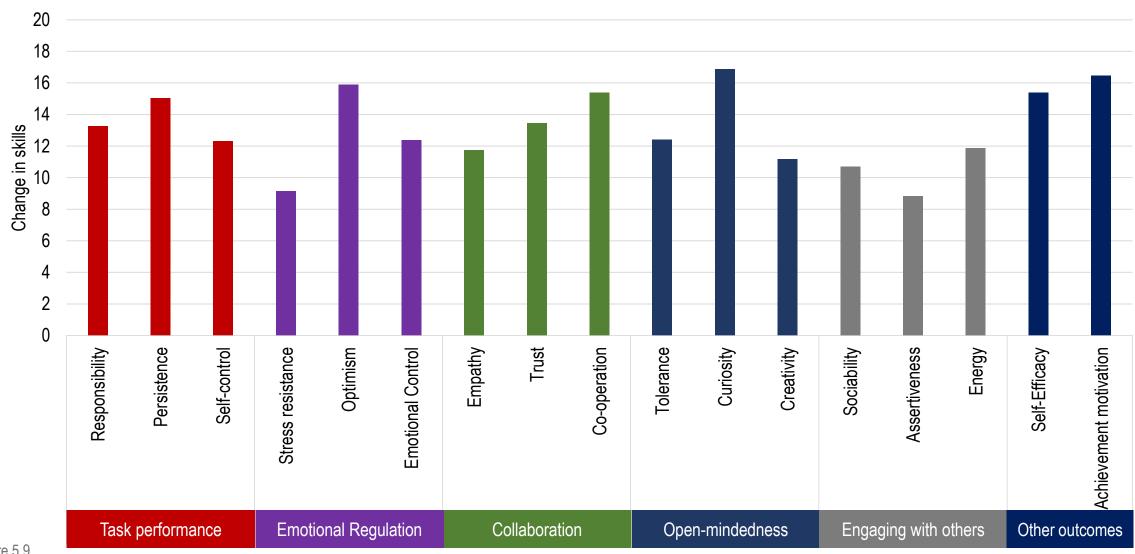
Learning loss in hybrid teaching & learning mode



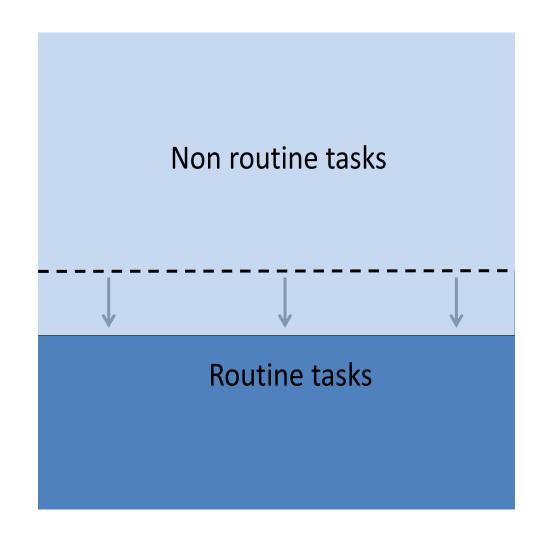


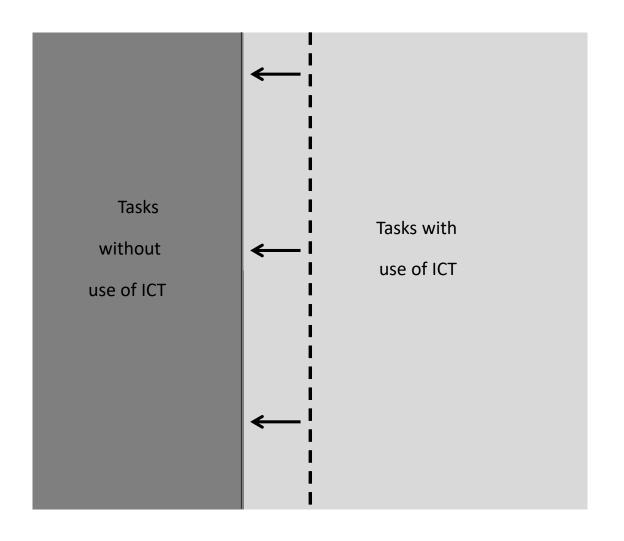
Better student-teacher relations are linked with improved social and emotional skills

Relations between student-teacher relations and social and emotional skills, 15-year-olds

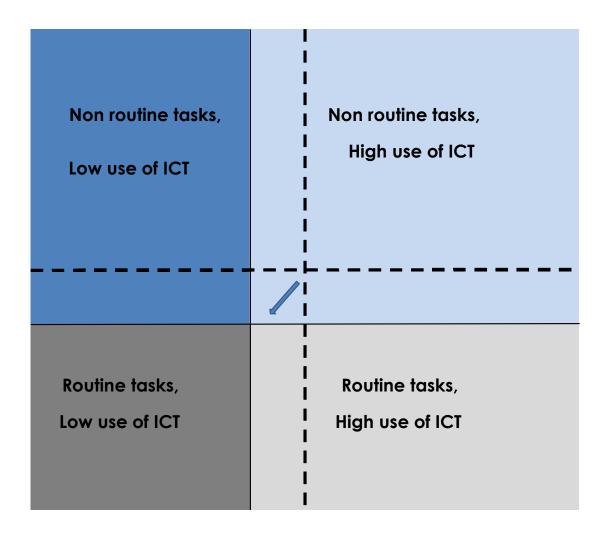


The kinds of things that are easy to teach...

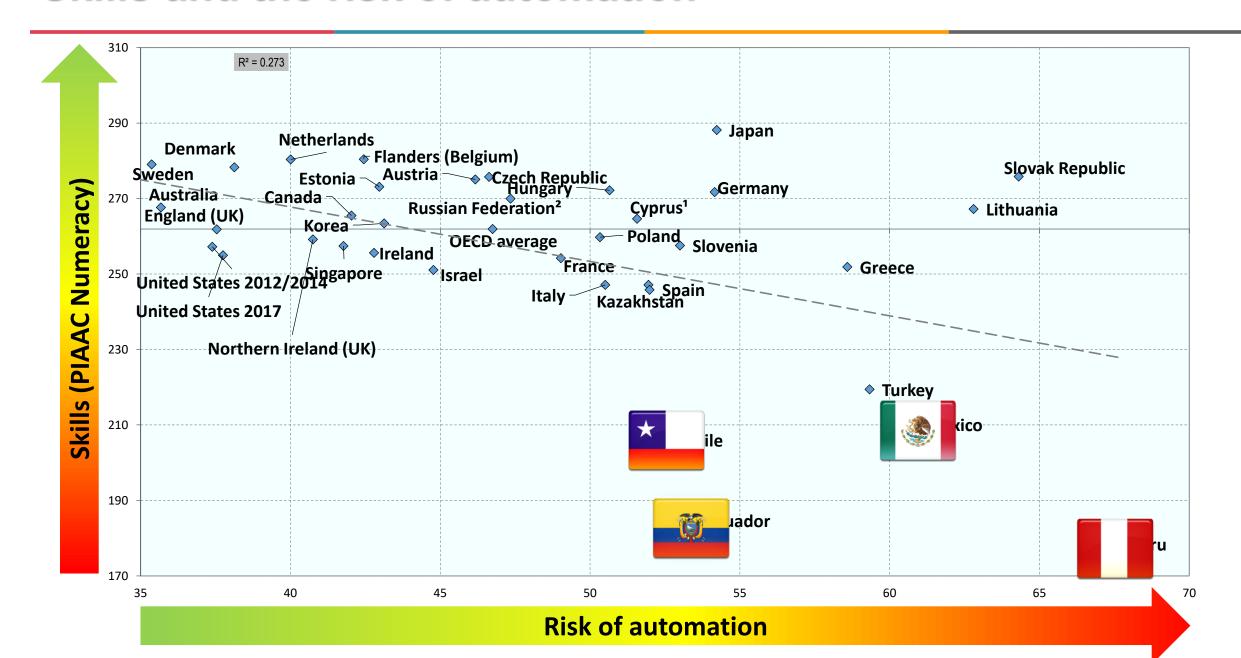




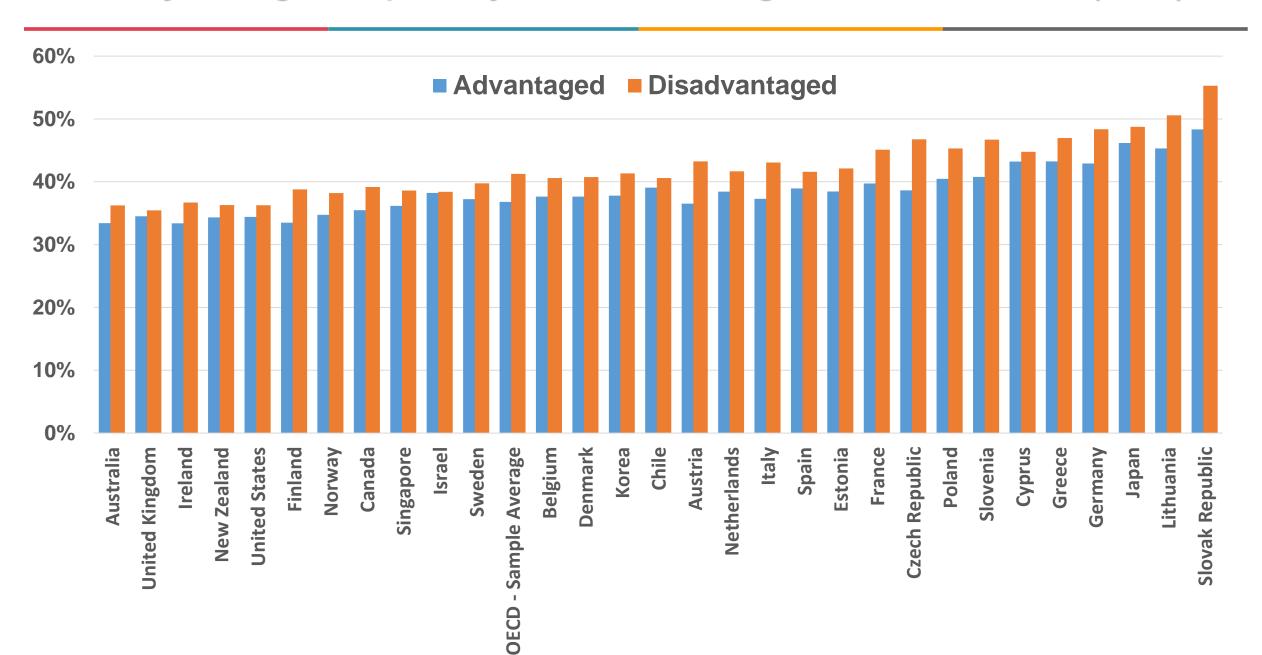
...have also become easy to digitise and automate



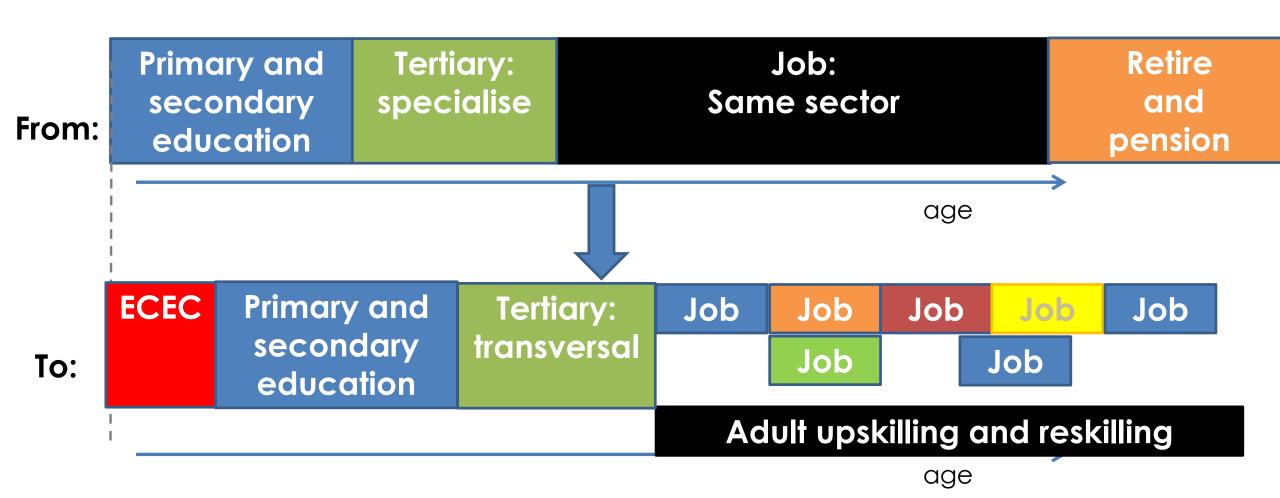
Skills and the risk of automation



But many teenagers aspire to jobs that are at high risk of automation (PISA)



We used to learn to do the work, now learning is the work



Firms as learning environments

- How is the additional funding shared between Governments, employers and beneficiaries?
- What are the incentives?
- Who sets the standards?
- How are the levels of skills recognised?
- Who trains the trainers?

People outside firms

- Unemployed: Government. Funding for unemployment benefits, used for training?
- People at high risk of losing their jobs: firms or Government?
- People who want to change jobs
- Gig economy

Governance

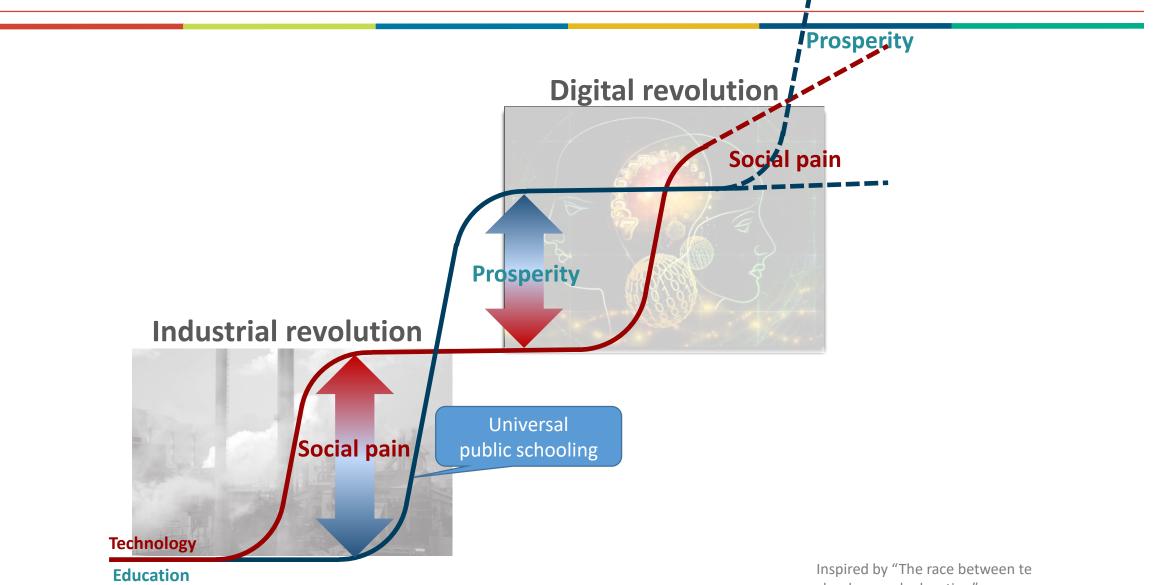
- New forms of work: fewer taxes raised
- Decentralised information: less control
- Link between education and jobs weakened: the role of Governments risks been diminished
- Need to predict rapid changes in skills demands and respond to them

ICT USE AND NON-ROUTINE INTENSITY ENHANCE FORMS OF LEARNING

EXPECTED EFFECT OF INCREASE FROM 50TH TO 75TH PCTILE OF DIGITAL EXPOSURE ON PROBABILITY OF LEARNING AT LEAST ONCE A WEEK



Education won the race with technology throughout history, but there is no automaticity it will do so in the future



Inspired by "The race between to chnology and education"

Pr. Goldin & Katz (Harvard)

Potential discussion questions

- 1. What are the skills (e.g. foundational, digital and social and emotional skills) people need to fully contribute to and participate in digital and green economies?
- 2. What is your country doing to identify changing skills needs for different groups in rapidly changing societies?
- 3. What is your country doing to make education and training responsive to changes in skills needs?
- 4. How can national qualifications systems (including microcredentials) in your country help to improve the development and utilisation of skills in the labour market?



Thank you

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and remember:

Without data, you are just another person with an opinion