

Francesco Avvisati, OECD London, 12 April 2016





The first rule of any technology used in a business is that automation applied to an efficient operation will magnify the efficiency.

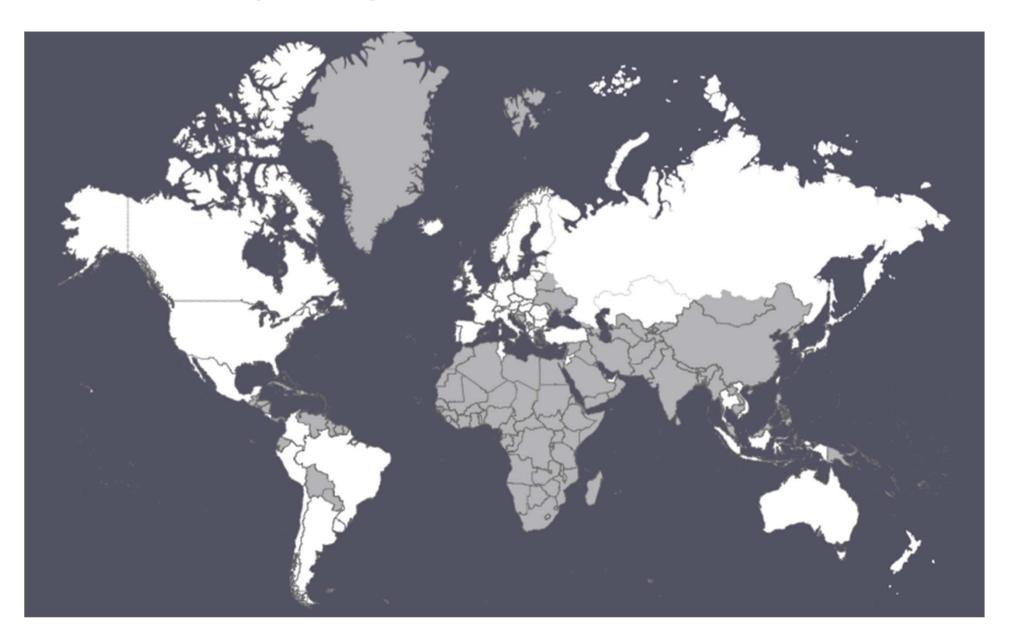
The second is that automation applied to an inefficient operation will magnify the inefficiency





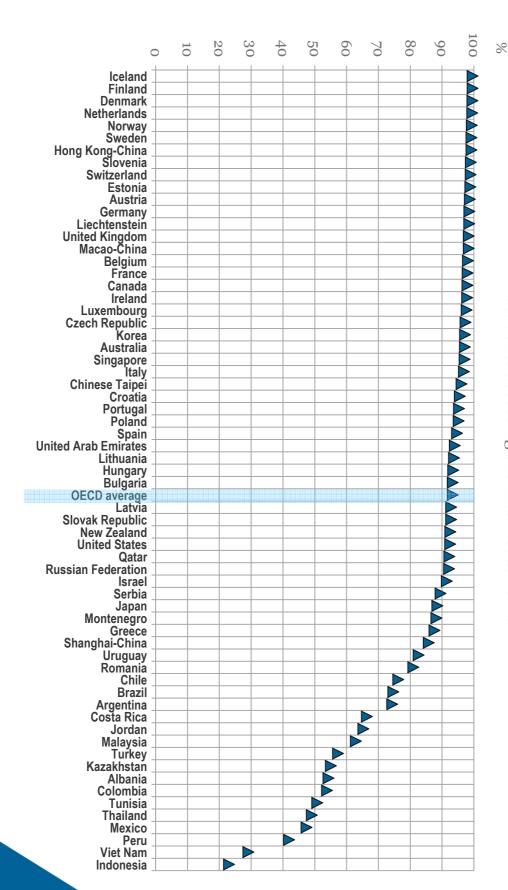
15-year-old students in over 60 countries in 2012

PISA participants





Countries with good (but unequal) access to ICT resources

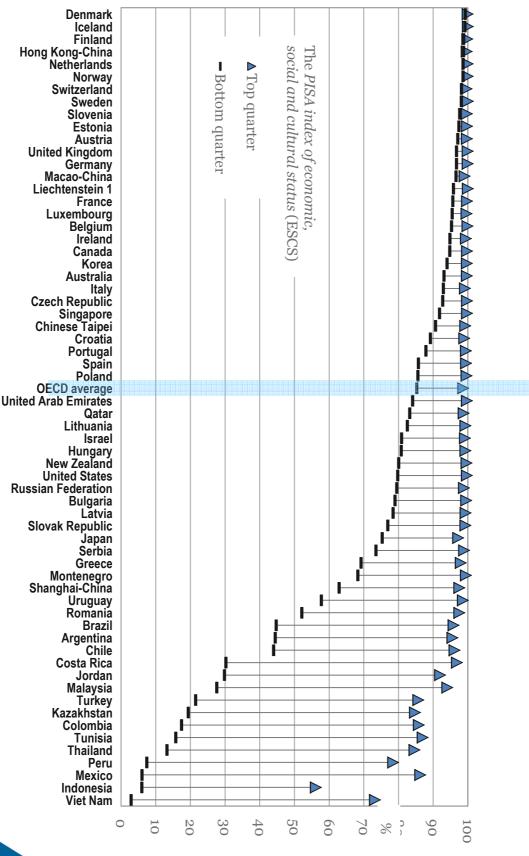


▲ Students accessing the Internet at home



han between countries)

within-country inequalities are often larger





What students do on line



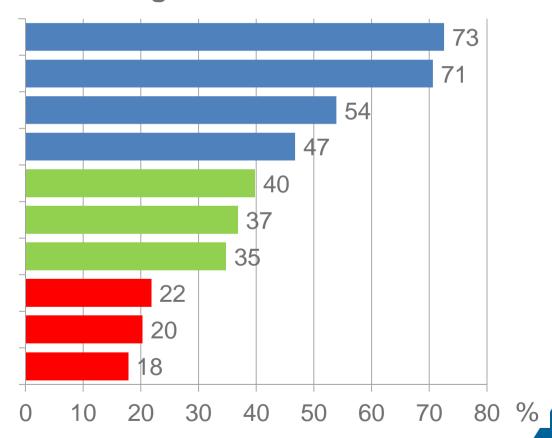
Average time spent on the Internet, every day, outside of school: over 2 h





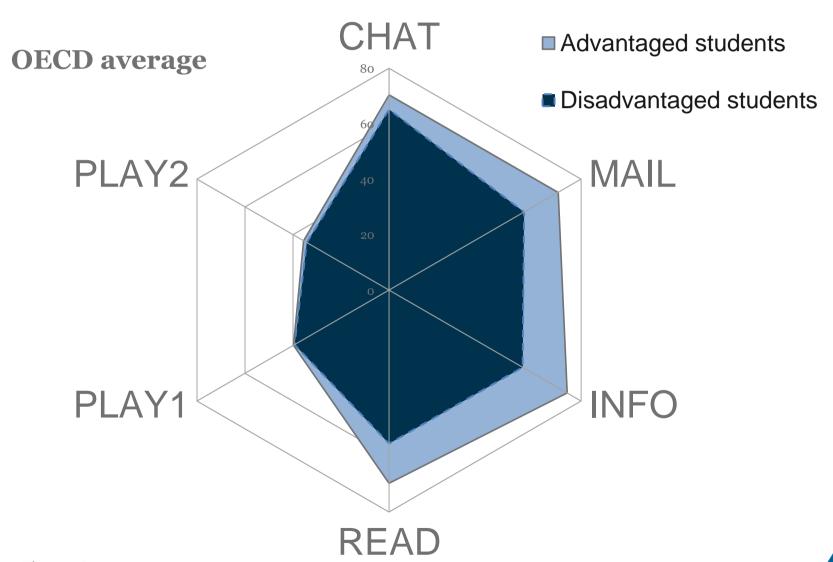
Daily online activities for 15-year-olds

OECD average





The digital divide is shifting from differences in access to differences in use



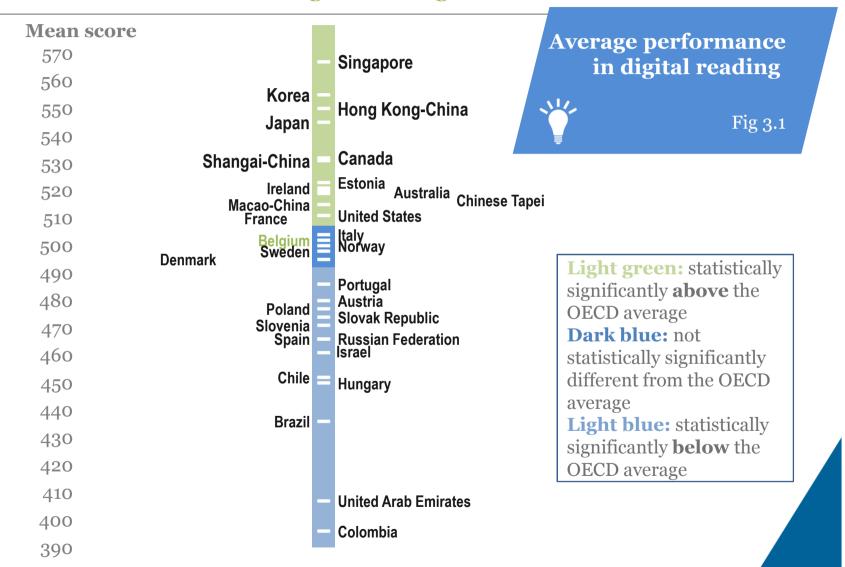
Source: Figure 5.8



Who are the world's best online readers?



Strong performance in in digital reading



Low performance in digital reading

United Arab Emirates

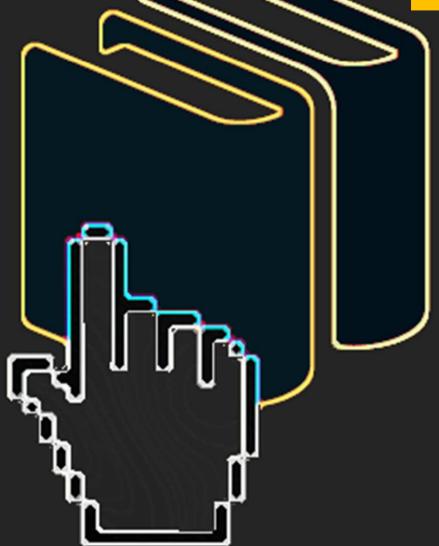


Score-point difference

Score-point difference between actual and expected Relative performance in digital reading

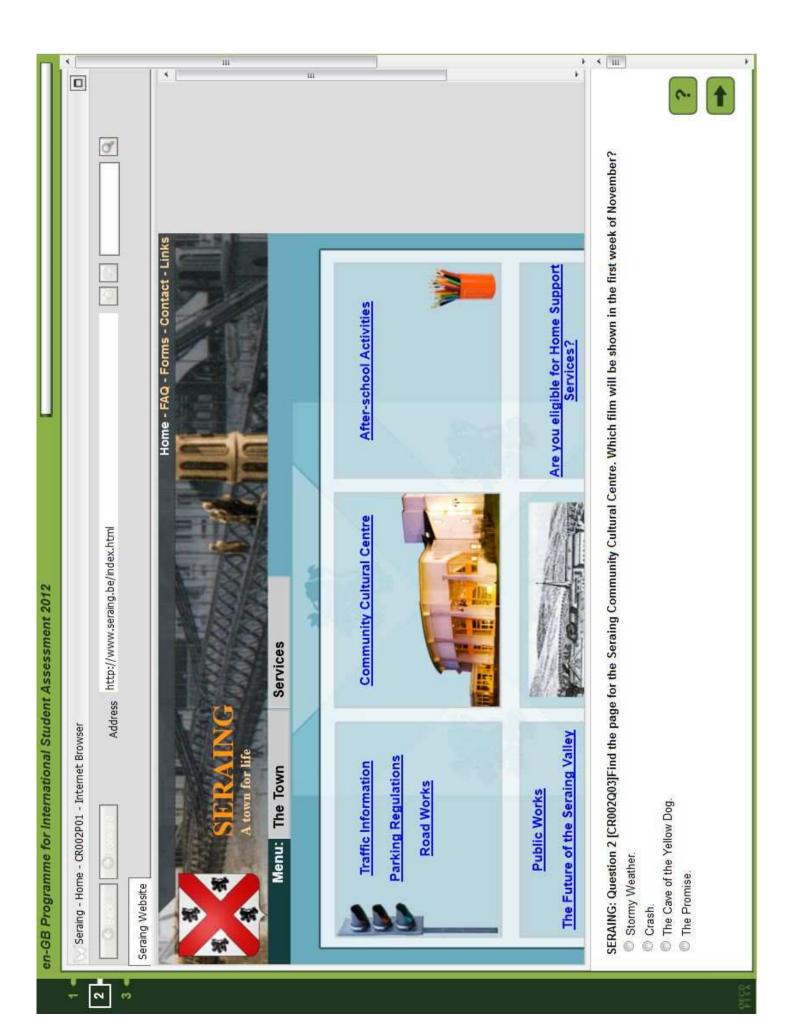
performance in digital reading







Technology is changing the way we read



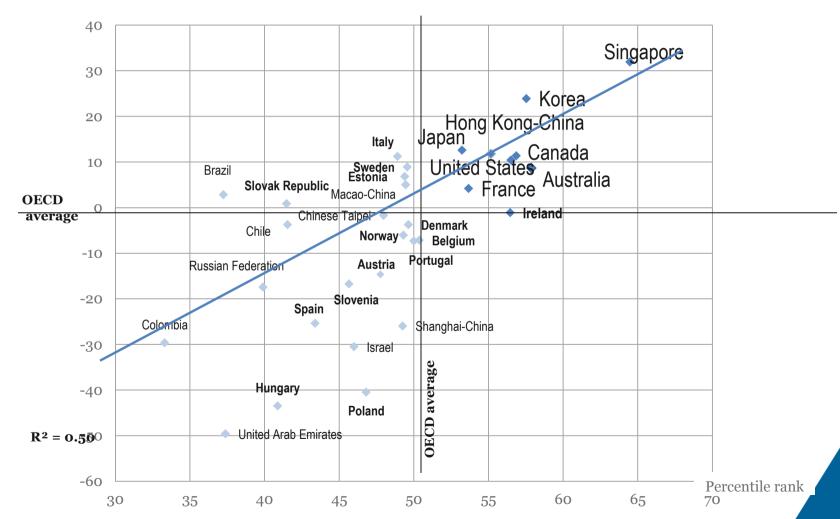


Navigation State Evaluation Task Management



Navigation behaviour predicts online reading performance beyond print reading skills

Index of task-oriented browsing



Source: Figure 4.10

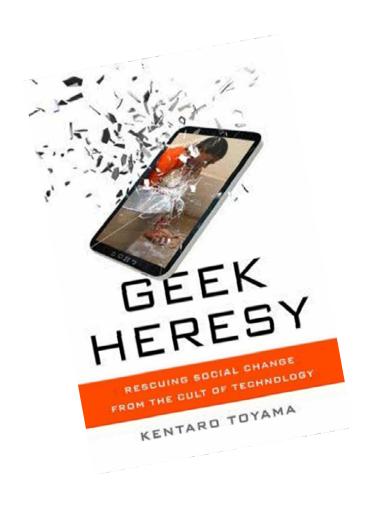
Relative performance in digital reading, after accounting

for performance in print reading



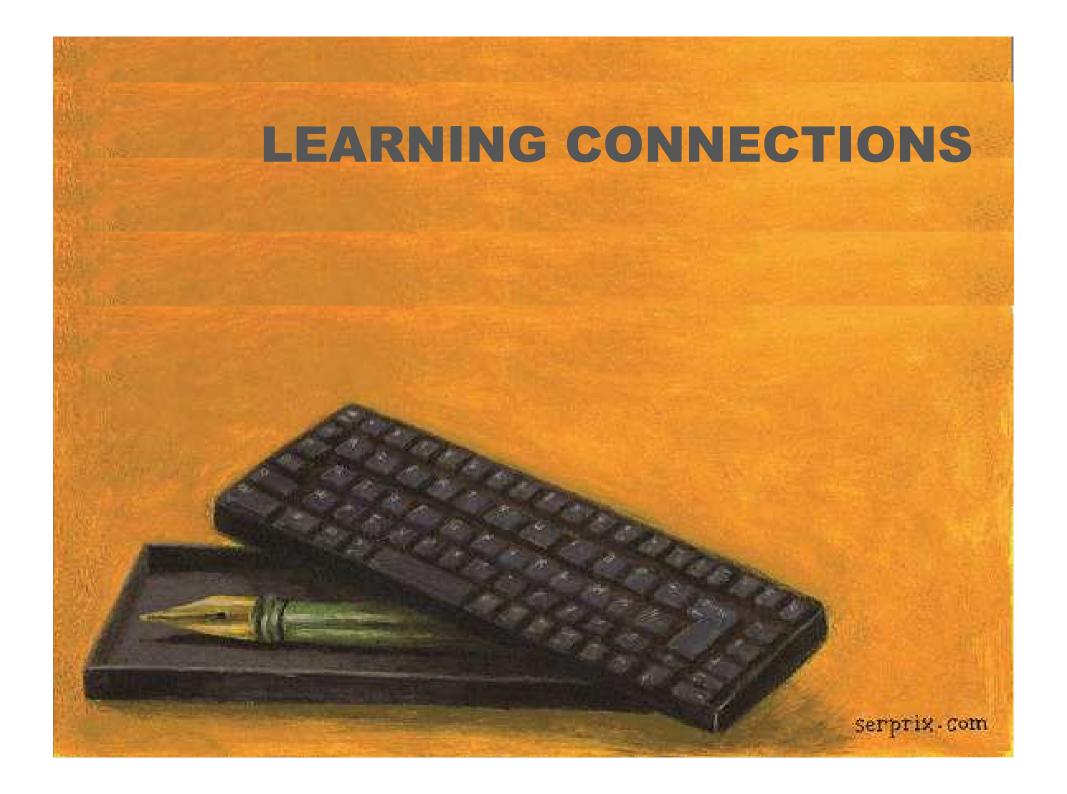


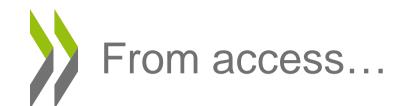
Old divides cut into online opportunities

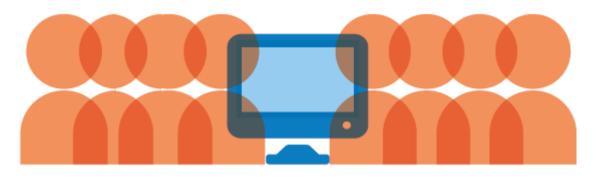


Online opportunity isn't always actual opportunity.

Technology never made up for a lack of good teachers or good principals.







Brazil
Argentina
Mexico
Greece



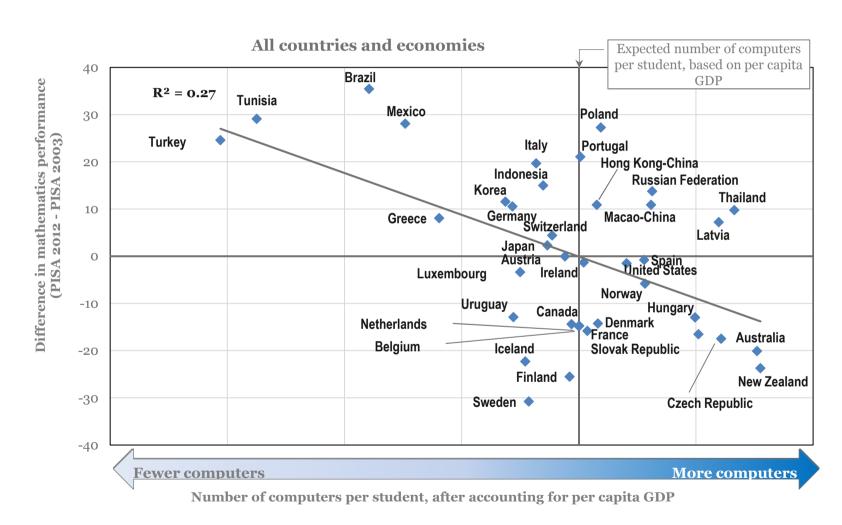
Korea
Germany
Italy
Japan



Norway
United Kingdom
New Zealand
Australia



To learning? Trends in maths performance and number of computers in schools

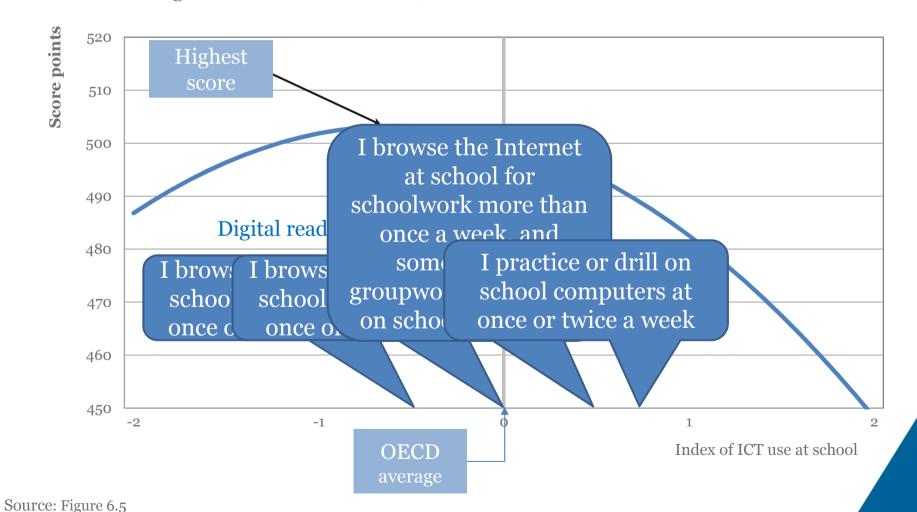


Source: Figure 6.3



Students who use computers at school only moderately score the highest in online reading

Relation between students' skills in reading and computer use at school (average across OECD countries)





Time and practice Time and routines

In response to personal needs

Autonomy

In collaborative settings

Support and teamwork

THANK YOU!

francesco.avvisati@oecd.org