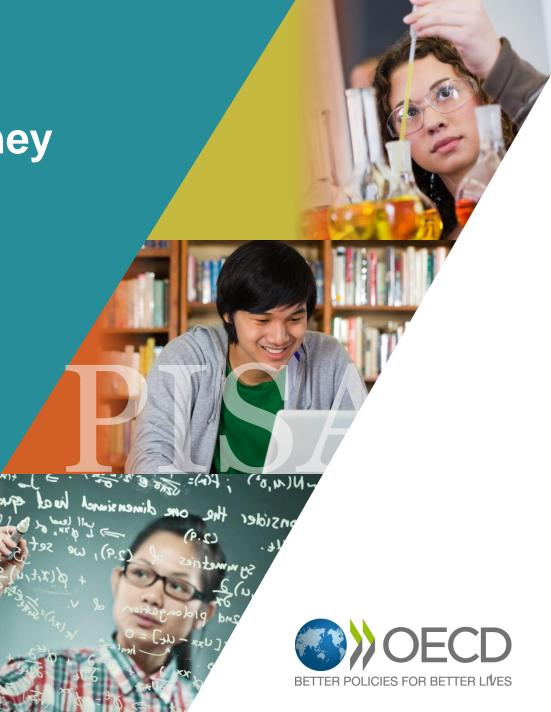
PISA 2012
Students and Money
Financial literacy skills





29 000 of these students in 18 economies took the PISA test on financial literacy

Over half a million students...

representing 28 million 15-year-olds in 65 countries/economies

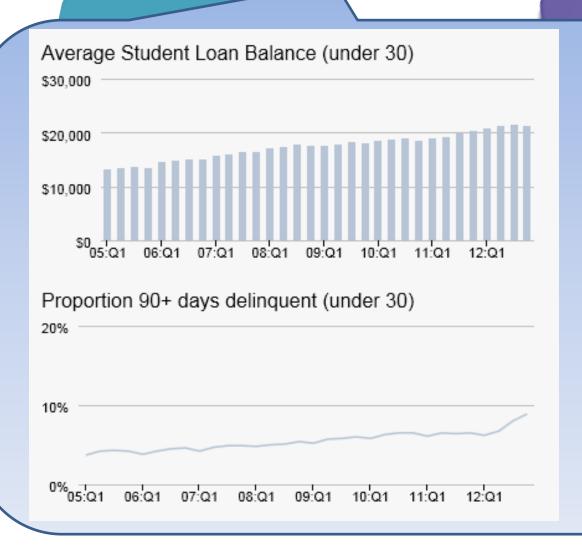
... took an internationally agreed 2-hour test...

- Goes beyond testing whether students can reproduce what they were taught...
- ... to assess students' capacity to extrapolate from what they know and creatively apply their knowledge in novel situations
- Mathematics, reading, science, problem solving (financial literacy)

... and responded to questions on.

... "knowledge and understanding of financial concepts and risks, and the skills, motivation and confidence to apply such knowledge and understanding in order to make effective decisions across a range of financial contexts ... to enable participation in economic life".

Big decisions at a young age: e.g. continuing education vs working



Shrinking welfare

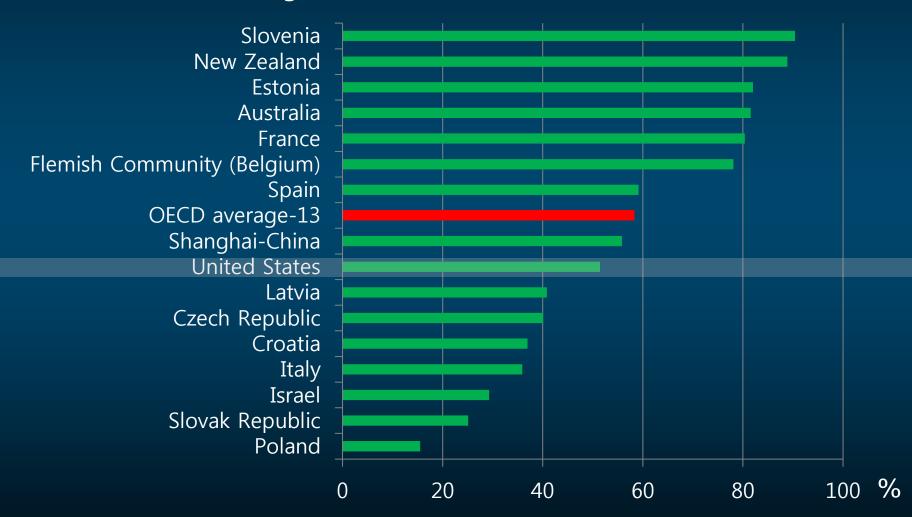
More students are enrolling into higher education.

In the US young adults owed more in 2012 than before the financial crisis

And they were more likely to be falling into arrears (% of all loans- some of which are not yet in repayment phase)

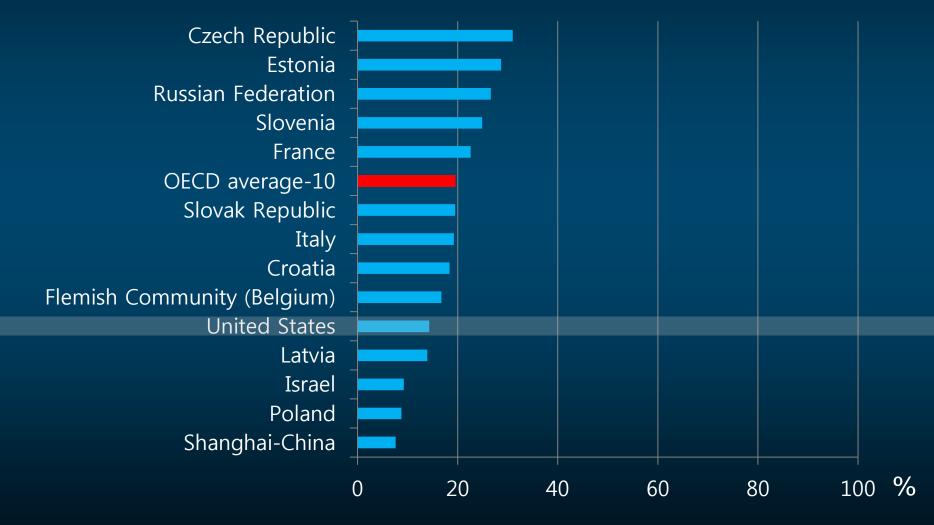
% of students with a bank account

Percentage of students with a bank account



% with a prepaid debit card





8 PISA financial literacy assessment framework

Content

Money and transactions

Planning and managing finances

Risk and reward

Financial landscape

Processes

Identifying financial information

Analyse information in a financial context

Evaluate financial issues

Apply financial knowledge and understanding

Contexts

Education and work

Home and family

Individual

Societal



Examples of what this might mean for 15 year olds

Balance their priority and plan what to spend money on

• ...if they go to the cinema, will they still have enough money for the bus fare home? Or would it be better to buy pizza and invite friends home?

Remember that some of the purchases have ongoing costs

• ...a games console will need new games, a motorbike will need fuel and tyres and services and so on.

Being alert to possible fraud

• ...Some emails that look like they came from their bank might not be legitimate, they should know what to do if they are not sure

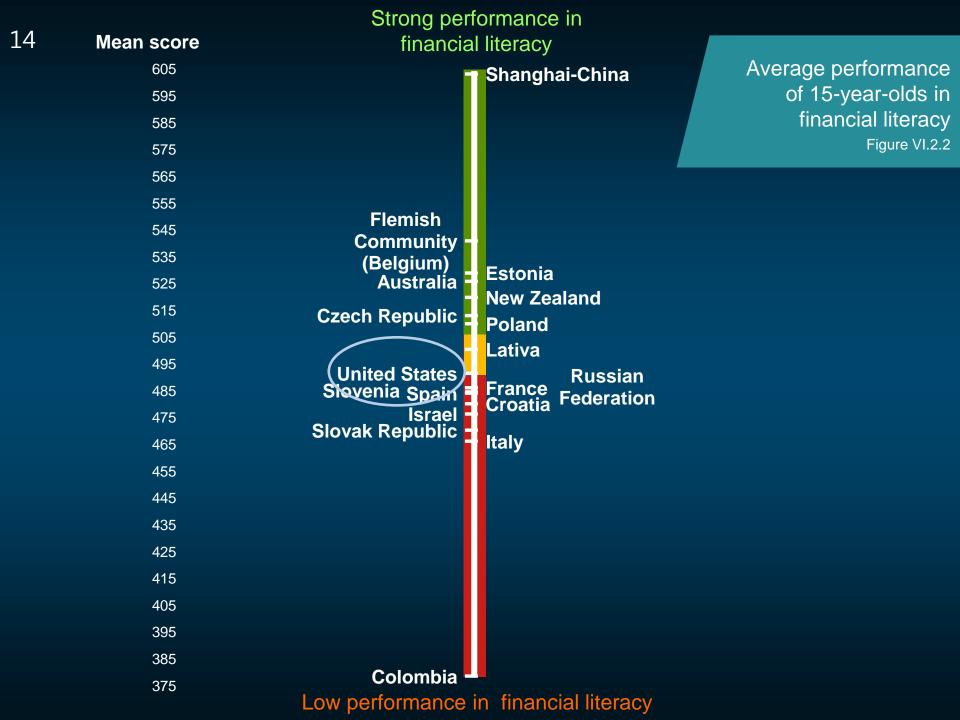
Knowing what risk is and what insurance is meant for

• ...If their phone gets stolen, they should ask their parents if it is covered by their household insurance

Make an informed decision about credit

- ...they should know that if they buy a computer on credit they will have to pay interest on the loan as well as paying the advertised price for the computer
- ...and they will realise that the less they repay of that loan each month, the more they will pay in interest

How well prepared are 15-year-olds to make financial decisions?



Distribution of performance

15

Students can apply their understanding of a wide range of financial terms and concepts to contexts that may only become relevant to their lives in the long term. They can analyse complex financial products and can take into account features of financial documents that are significant but unstated or not immediately evident, such as transaction costs. They can work with a high level of accuracy and solve non-routine financial problems, and they can describe the potential outcomes of financial decisions, showing an understanding of the wider financial landscape, such as income tax.

Students begin to apply their knowledge of common financial products and commonly used financial terms and concepts. They can use given information to make financial decisions in contexts that are immediately relevant to them. They can recognise the value of a simple budget and can interpret prominent features of everyday financial documents. They can apply single basic numerical operations, including division, to answer financial questions. They show an understanding of the relationships between different financial elements, such as the amount of use and the costs incurred.



Distribution of performance

Students can apply their understanding of a wide range of financial terms and concepts to contexts that may only become relevant to their lives in the long term. They can analyse complex financial products and can take into account features of financial documents that are significant but unstated or not immediately evident, such as transaction costs. They can work with a high level of accuracy and solve non-routine financial problems, and they can describe the potential outcomes of financial decisions, showing an understanding of the wider financial landscape, such as income tax.

Students can apply their understanding of commonly used financial concepts, terms and products to situations that are relevant to them. They begin to consider the consequences of financial decisions and they can make simple financial plans in familiar contexts. They

Students begin to apply their knowledge of common financial products and commonly used financial terms and concepts. They can use given information to make financial decisions in contexts that are immediately relevant to them. They can recognise the value of

Students can only identify common financial products and terms and interpret information relating to basic financial concepts. They can recognise the difference between needs and wants and can make simple decisions on everyday spending.

Level 1
or below

Baselin

18%

16

2%

Sample Question: INVOICE



Breezy Clothing

Sara receives this invoice in the mail

Invoice Number: 2034

Date issued: 28 February

Sarah Johanson 29 Worthill Rd Kensington Zedland 3122

Breezy Clothing 498 Marple Lane Brightwell Zedland 2090

Invoice

Product code	Description	Quantity	Unit cost	Total (excluding tax)
T011	T-shirt	3	20	60 zeds
J023	jeans	1	60	60 zeds
5002	scarf	1	10	10 zeds

Question 1: Why was this invoice sent to Sarah?

- A. Because Sarah needs to pay the money to Breezy Clothing.
- B. Because Breezy Clothing needs to pay the money to Sarah.
- C. Because Sarah has paid the money to Breezy Clothing.
- D. Because Breezy Clothing has paid the money to Sarah.

Sample Question: INVOICE



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Question 2: How much has Breezy Clothing charged for delivering the clothes?

Delivery charge in zeds:

10 zeds

Total Excluding Tax:

Tax 10%:

Postage:

Total Including Tax:

Already Paid:

130 zeds

10 zeds

0 zeds

Total due: 153 zeds
Date due: 31 March

Sample Question: INVOICE



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Invoice

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Question 3:

Sara notices that Breezy Clothing made a mistake in the invoice. Sara ordered and received two T-shirts, not three. The postage fee is a fixed charged.

What will be the total of the new invoice?



NEW OFFER

Mrs Jones has a loan of 8000 zeds with FirstZed Finance. The annual interest rate on the loan is 15%. Her repayments each month are 150 zeds.

After one year Mrs Jones still owes 7400 zeds.

Another finance company called Zedbest will give Mrs Jones a lona for 10 000 zeds with an annual interest rate of 13%. Her repayments each month would also be 150 zeds

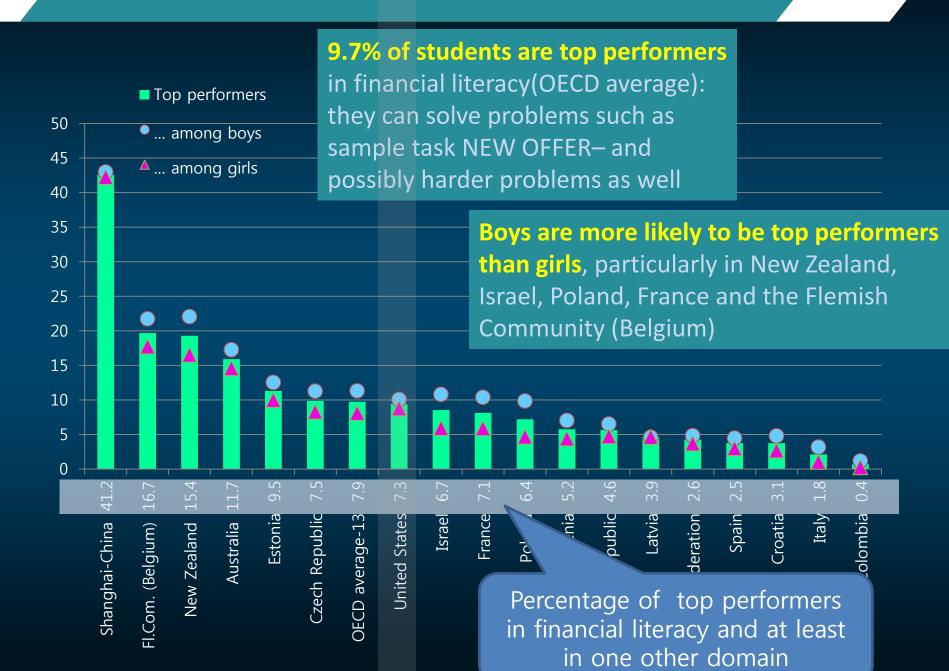
NEW OFFER- Question 1.

If she takes the Zedbest loan, Mrs Jones will immediately pay off her existing loan.

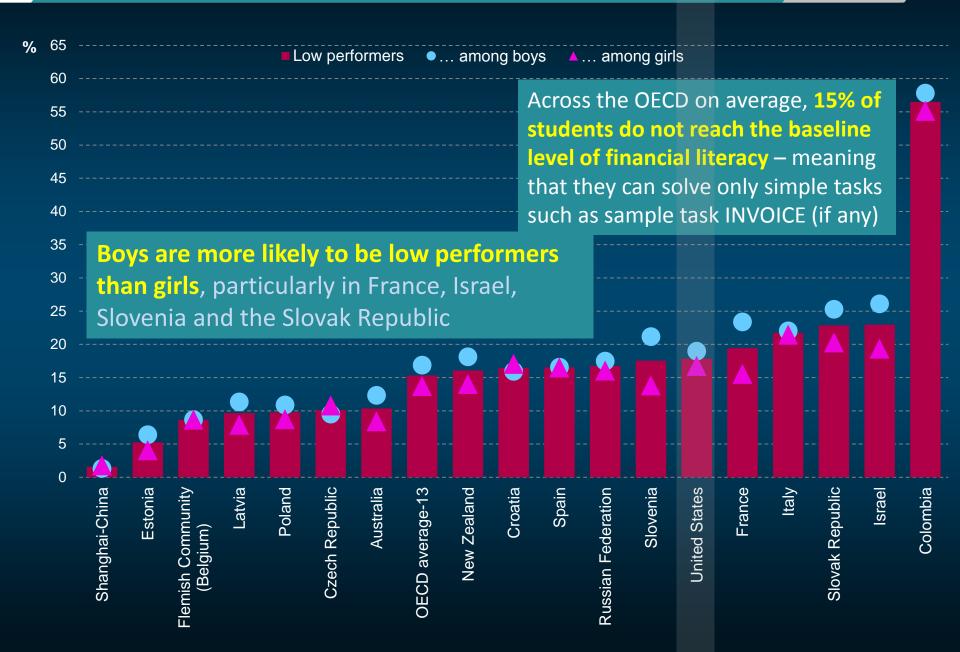
What are two other financial benefits for Mrs Jones if she takes the Zedbest loan?

- 1. She will be paying lower interests
- She will have more money available

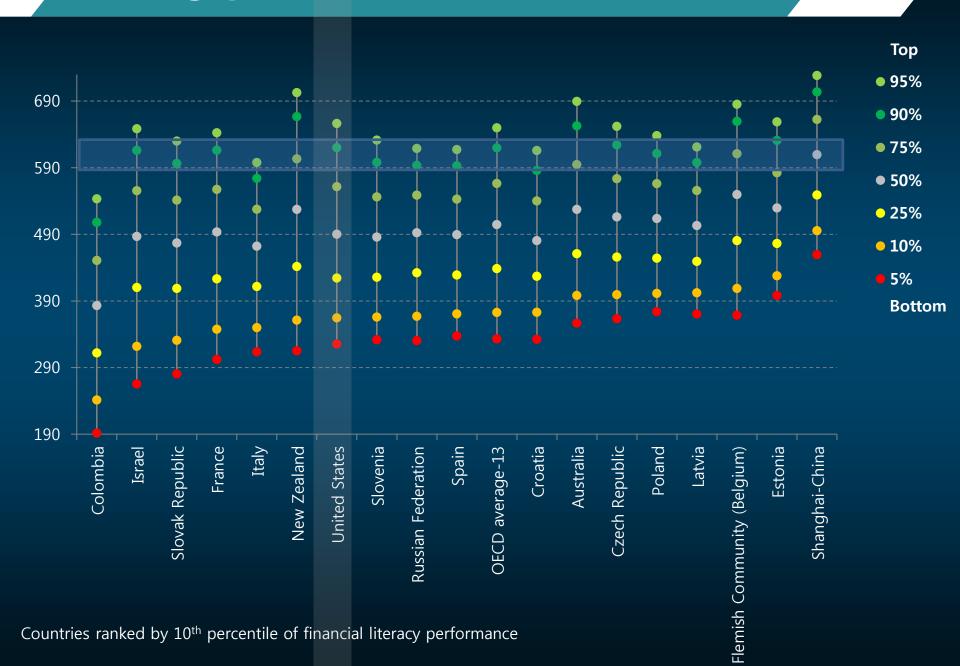
Top performers in financial literacy, by gender



Percentage of low-performing students in financial literacy

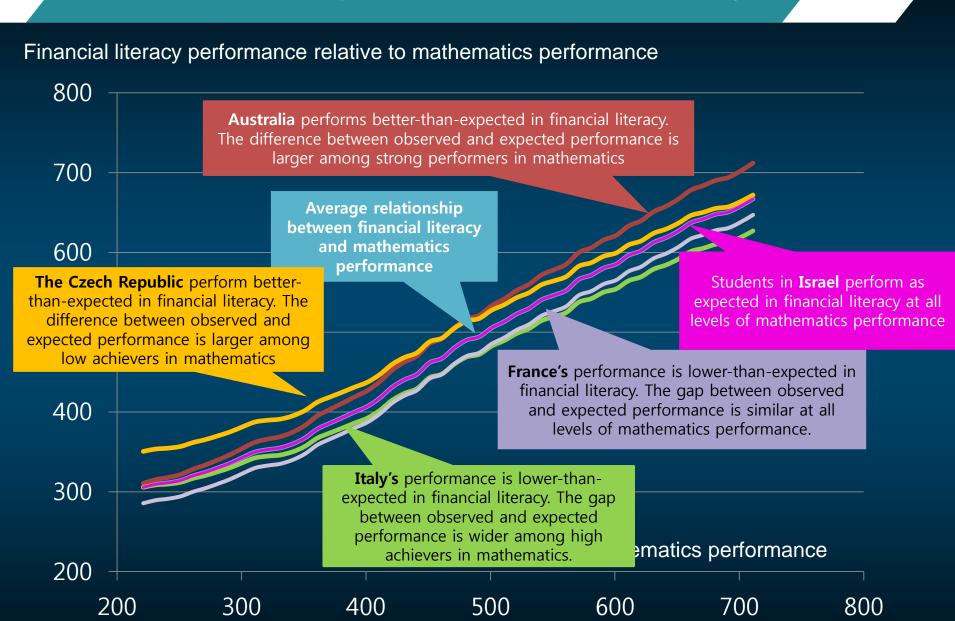


Skill gaps within countries

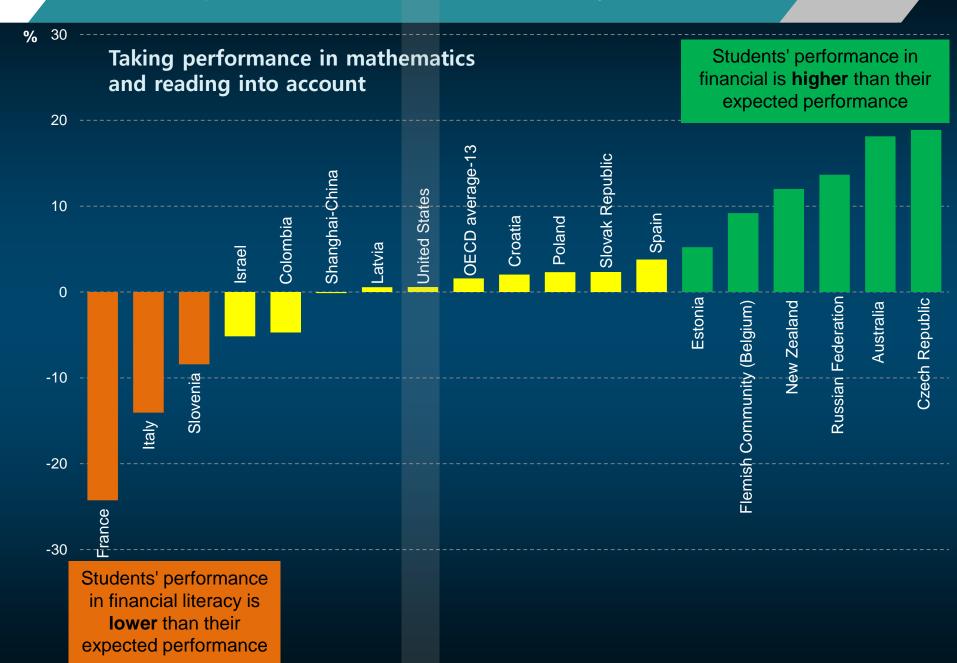


How does financial literacy relate to other skills?

Patterns of relative performance in financial literacy

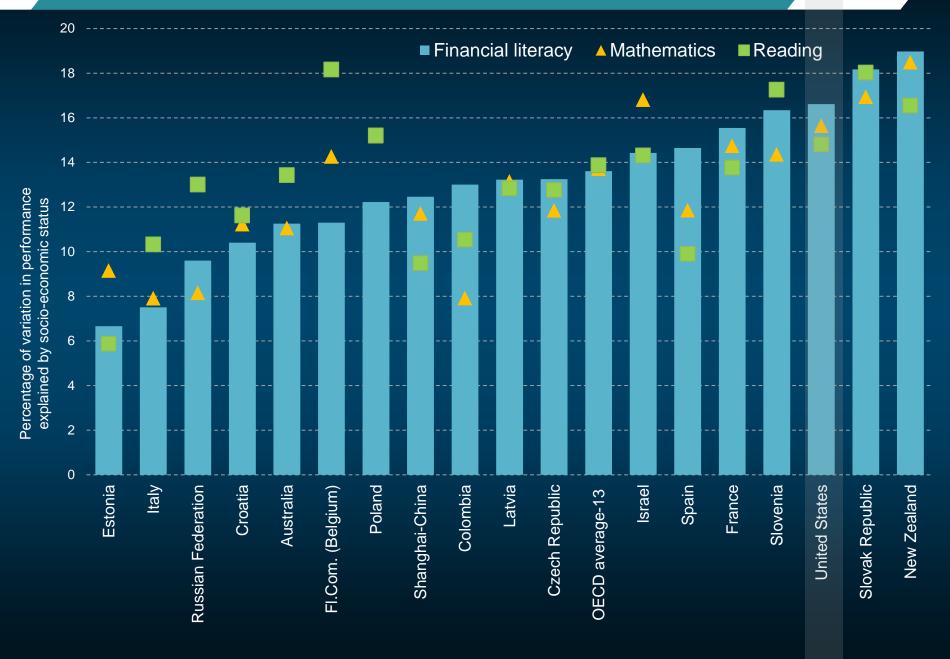


Relative performance in financial literacy



How are learning opportunities distributed?

Relationship between socio-economic status and performance in financial literacy, mathematics and reading



What can be done to enhance financial literacy

Improving the quantity/quality of teaching of...

...financial literacy as a cross-curricular domain?

...financial literacy education as a separate subject?

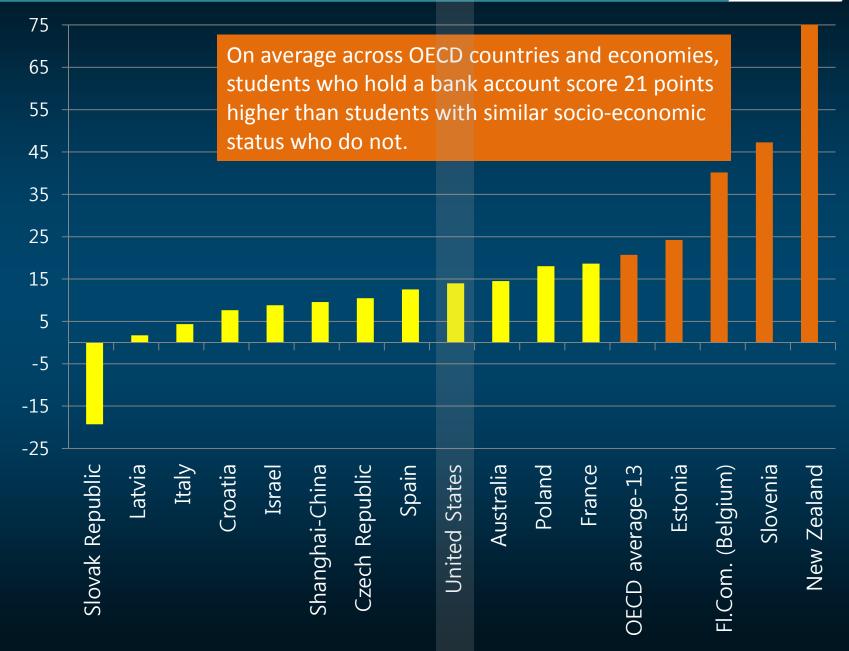
...conceptual foundations of math?

...applied math?

...other types of education?

...or is it all about out-of-school experiences?

Financial literacy by bank account holding (accounting for socio-demographic status)



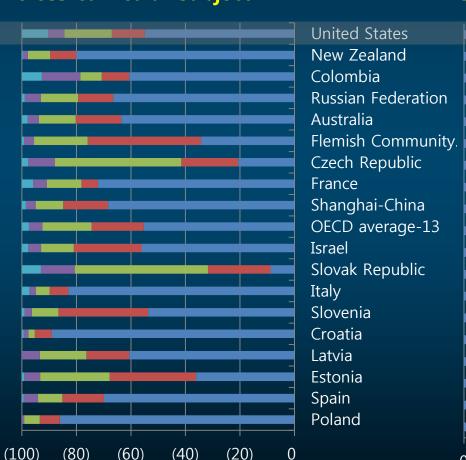
Student exposure to financial education



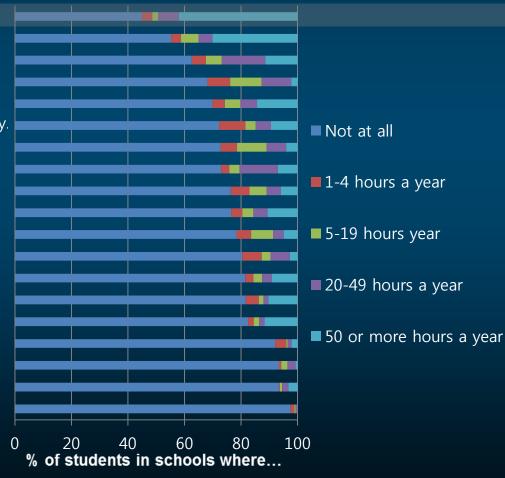
School curriculum

Financial education taught as a cross-curricular subject

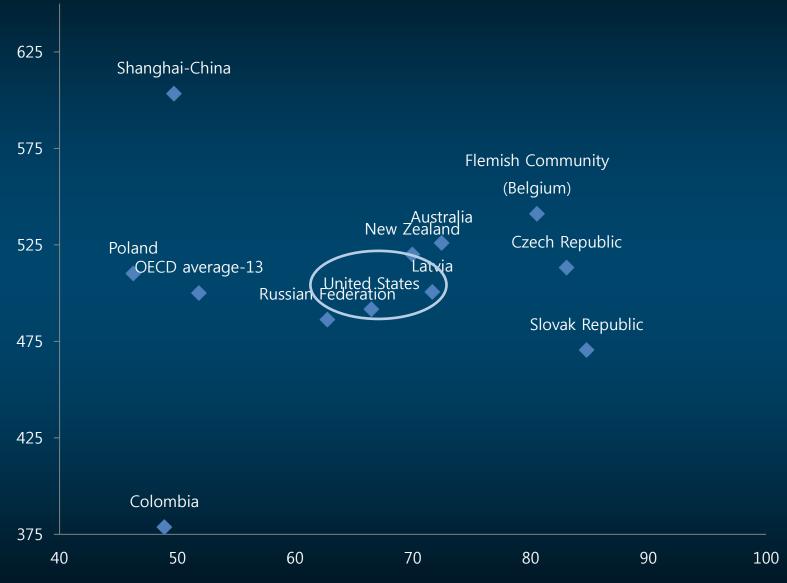
% of students in schools where...



Financial literacy taught as a separate subject

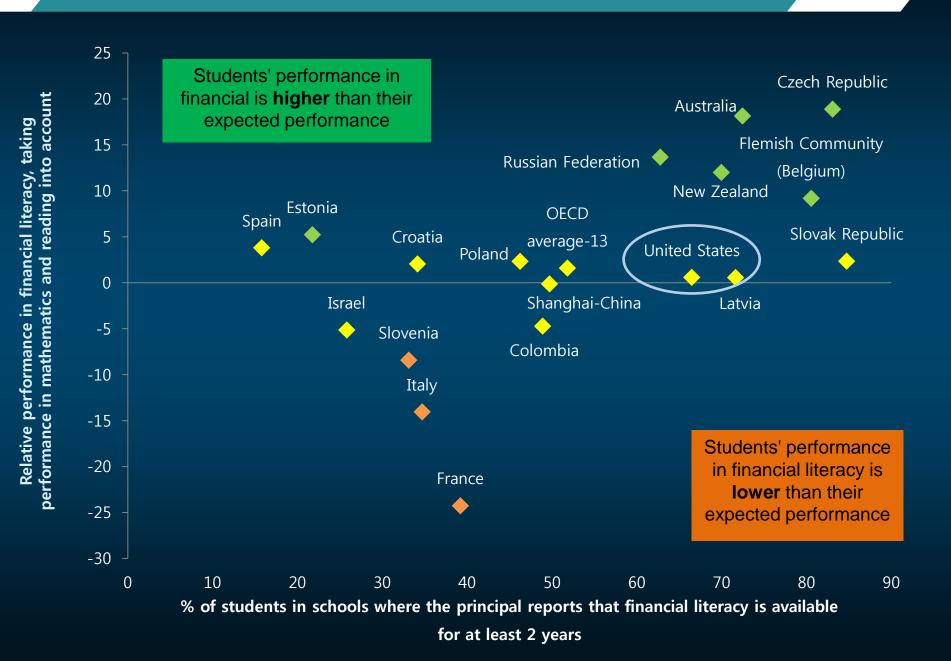


Exposure and financial literacy

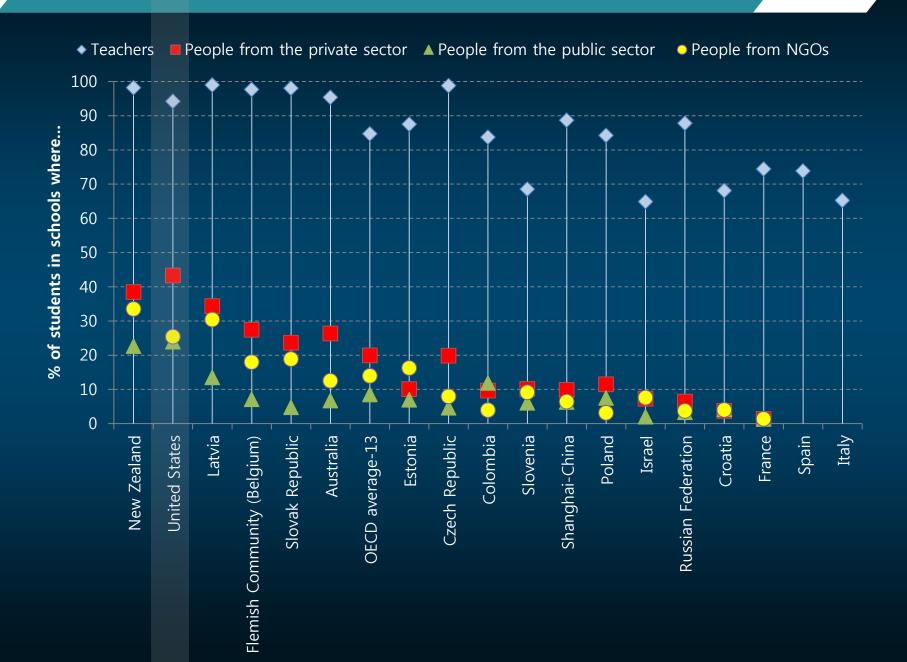


% of students in schools where the principal reports that financial literacy is available for at least 2 years

Exposure and relative performance

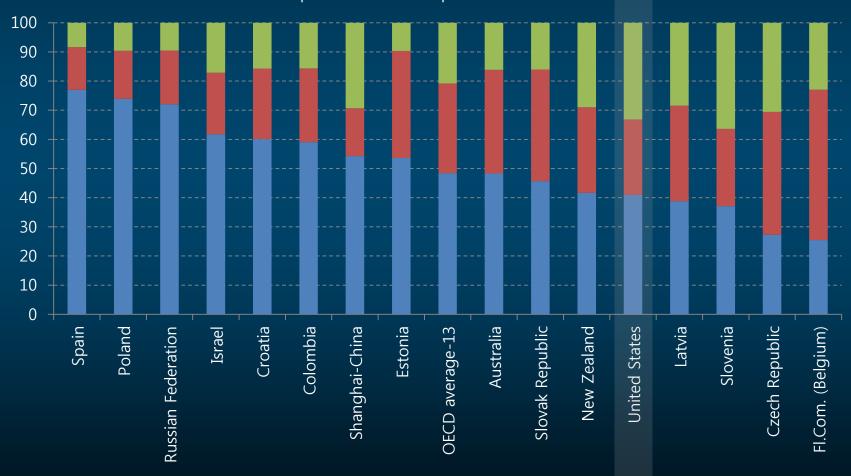


Providers of financial education in schools



Teachers professional development

- 50% OR MORE OF TEACHERS attended professional development in financial education
- UP TO 50% OF TEACHERS attended professional development in financial education
- NO TEACHERS attended professional development in financial education



Find out more about PISA at www.pisa.oecd.org

- All national and international publications
- The complete micro-level database

Thank you!

Email: Andreas.Schleicher@oecd.org