2015 IOSCO STP - Investor Education and Protection: The Major Challenges Ahead



A GLOBAL PERSPECTIVE ON FINANCIAL LITERACY

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Financial Literacy: The best line of defense

"Well-informed consumers, who can serve as their own advocates, are one of the best lines of defense against the proliferation of financial products and services that are unsuitable, unnecessarily costly, or abusive."

—Ben Bernanke, Former Fed Chairman

The growing importance of financial literacy

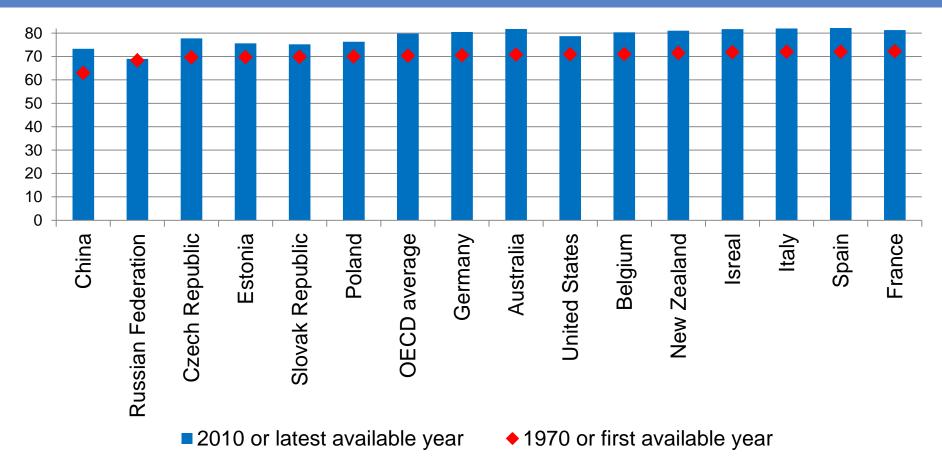
A new economic landscape

Major changes in many markets and institutions

- Changes in pension systems
 - More individual and private accounts
- Changes in labor markets
 - Divergence in wages skills are critical
- Changes in financial markets
 - Greater complexity
 - More opportunities to borrow & in large amounts



Increase in life expectancy changes everything



Source: OECD Factbook 2013: Economic, Environmental and Social Statistics © OECD 2012

- Life expectancy is high, and has kept growing.
- Young people today will need to be able to support themselves for many years.
- These changes are happening globally

The growing importance of financial literacy, cont.

Finance is what we do every day

Financial decisions happen frequently, are part of what we do every day

- Methods of payment, managing liquidity
 - Buying on cash or credit?
 - Having basic financial instruments, such as a bank account
- Having/making a budget
 - Making spending decisions
- Short-term planning
 - Making ends meet

These decisions are consequential

Many questions

Given these changes:

- 1. How well-equipped are people to deal with this new economic environment?
- 2. Are there vulnerable groups?
- 3. Is there a link between financial literacy and use of financial products?

Measuring financial literacy across countries

How well-equipped are people?

Earlier initiatives:

- OECD-INFE surveys to measure financial literacy across countries
 - among the population (18 and older)
 - among the young (PISA financial literacy assessment)
- 2. World Bank's Financial Capability Surveys
- Financial Literacy around the World (FLat World) project



PISA 2012 Results: Students and Money

FINANCIAL LITERACY SKILLS FOR THE 21ST CENTURY

VOLUME VI



Financial Literacy around the World (FLat World)

Evidence from 14 countries:

- **❖** USA
- The Netherlands
- Germany
- Italy
- Russia
- Sweden
- New Zealand
- Japan
- Australia
- France
- Switzerland
- Romania
- Canada
- Finland



New data on financial literacy around the world



GALLUP



The data will be released on November 18, 2015

The Global Financial Literacy Survey (GFLS)



In 2014, Gallup interviewed adults (age 15 and older) in more than 140 countries around the world about their level of financial literacy.

The survey covers four topics:

- Numeracy
- Interest compounding
- Inflation
- Risk diversification

Measuring financial literacy

- How to measure financial literacy?
- Theory: Saving (borrowing) and investing
 - Life-cycle model of saving
 - Portfolio choice

Concepts:

Numeracy and interest compounding

Inflation

Risk diversification

These theories/concepts apply everywhere (work of Nobel Prize Winner Angus Deaton)

Measuring financial literacy

Big Three (three financial literacy questions)

- 1. Numeracy/interest compounding
- 2. Inflation
- 3. Risk diversification

The Big Three are used in the FLat World project

Being financially literate: How many can answer these 3 questions correctly, and how many can correctly answer 2 out of the 3 questions

Measuring financial literacy globally (GFLS)

Five questions and four topics

- 1. Simple interest/numeracy
- 2. Interest compounding
 - Asked in two questions
- 3. Inflation
- 4. Risk diversification

Being financially literate:

How many can answer 3 out of these 4 topics correctly

Measuring financial literacy

Multiple-answer questions with the option of "don't know" and "refuse to answer"

Risk Diversification

Suppose you have some money. Is it safer to put your money into one business or investment, or to put your money into multiple businesses or investments? [one business or investment; multiple businesses or investments; don't know; refuse to answer]

Inflation

Suppose over the next 10 years the prices of things you buy double. If your income also doubles, will you be able to buy less than you buy today, the same as you can buy today, or more than you can buy today? [less; the same; more; don't know; refuse]

Measuring financial literacy, cont.

Numeracy/ simple Interest

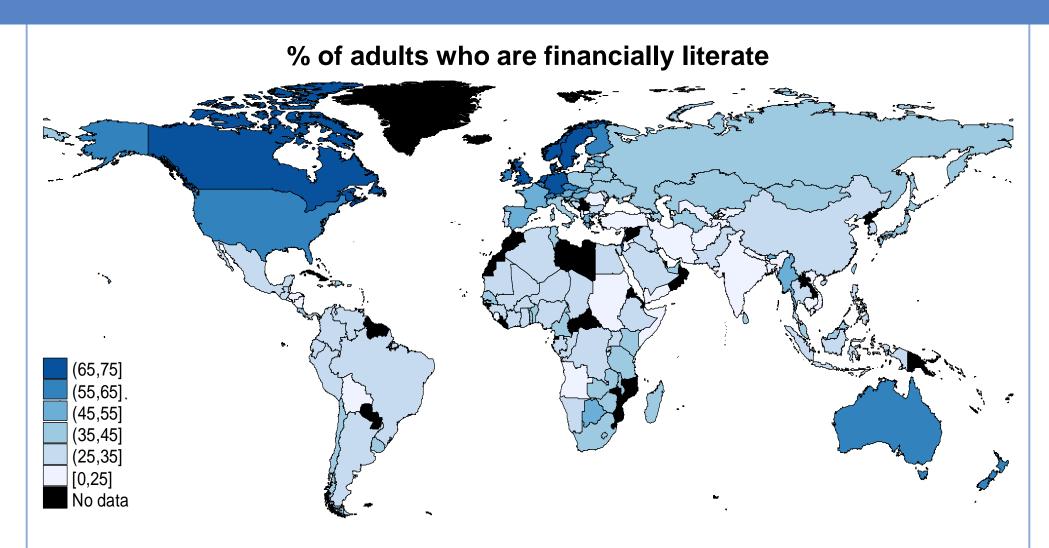
Suppose you need to borrow \$100. Which is the lower amount to pay back: \$105 or \$100 plus three percent? [105 US dollars; 105 US dollars plus three percent; don't know; refuse]

Compound Interest

Suppose you put money in the bank for two years and the bank agrees to add 15 percent per year to your account. Will the bank add more money to your account in the second year than it did in the first year, or will it add the same amount of money in both years? [more; the same; don't know; refuse]

Suppose you had \$100 in a savings account and the bank adds 10 percent per year to the account. How much money would you have in the account after five years if you did not remove any money from the account? [more than 150 US dollars; exactly 150 US dollars; less than 150 US dollars; don't know; refused

Financial literacy globally



- 1 in 3 adults worldwide responded correctly to 3 topics out of 4 topics
- Middle East at 26% and South Asia at 23% are very low financial literacy areas

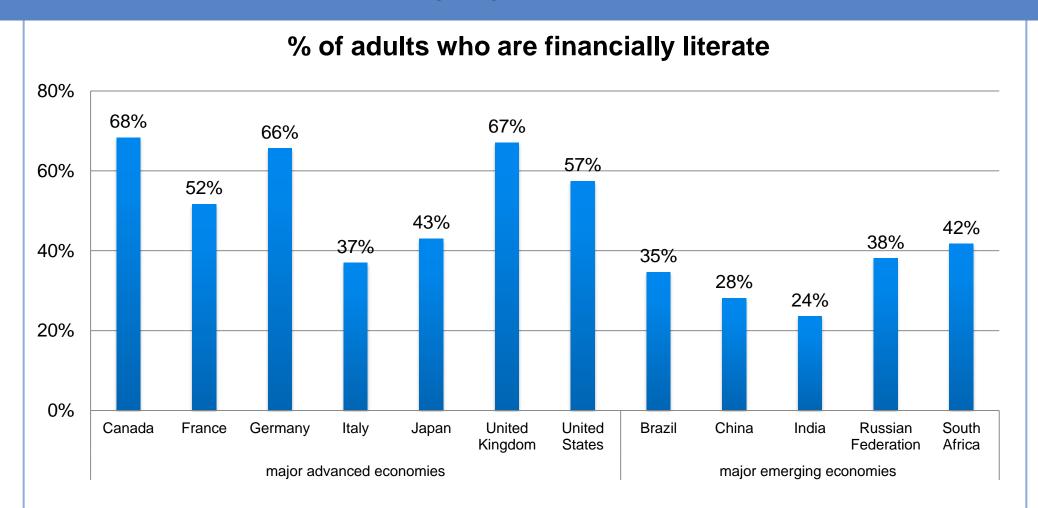
Global Ranking

Norway, Denmark, and Sweden lead the world with 71% of adults answering three out of four topics correctly.

In the US, 57% answer three out of four topics correctly. Twelve countries have higher rates.

GFLS Ranking	Country	at least 3 out of 4 topics answered correctly (%)
1	Norway	71%
2	Denmark	71%
3	Sweden	71%
4	Israel	68%
5	Canada	68%
71	Gabon	35%
72 (Median)	Bulgaria	35%
73	Côte d'Ivoire	35%
140	Angola	15%
141	Somalia	15%
142	Afghanistan	14%
143	Albania	14%
144	Yemen	13%

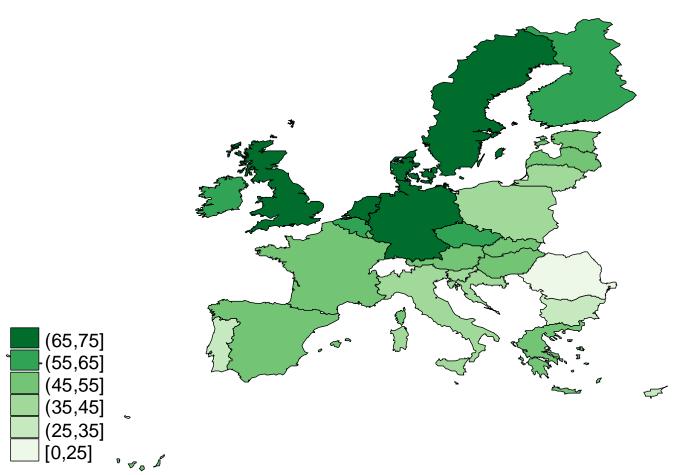
Financial literacy in advanced countries and in emerging economies



- Financial literacy is low even in advanced countries
- Financial literacy is low in most BRIC countries
- Findings are consistent with the FLat World Project and other surveys

Financial literacy in Northern and Southern Europe





- Financial literacy varies a lot between Northern and Southern Europe
- Spain is at 49%, Portugal at 26% versus Germany (66%) and UK (67%)

Financial literacy around the world (summary)

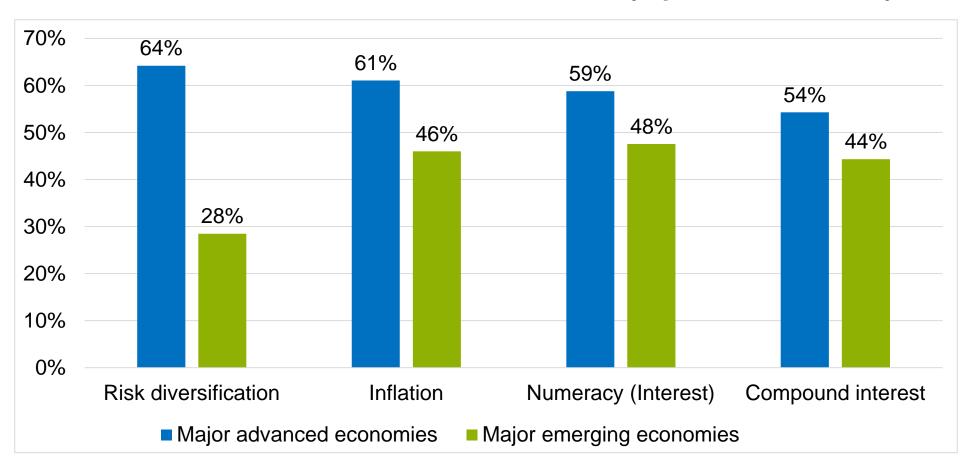
Very rich data

- > 33% of adults worldwide are financially literate
 - Around 3.5 billion adults globally lack an understanding of basic financial concepts, most of them living in developing economies
- ➤ Global figures conceal deep disparities across countries around the world
 - ➤ Differences between advanced and emerging economies
 - ➤ Differences are sharp even within Europe
- > Emerging countries have a long way to go

These findings are consistent with data from other surveys

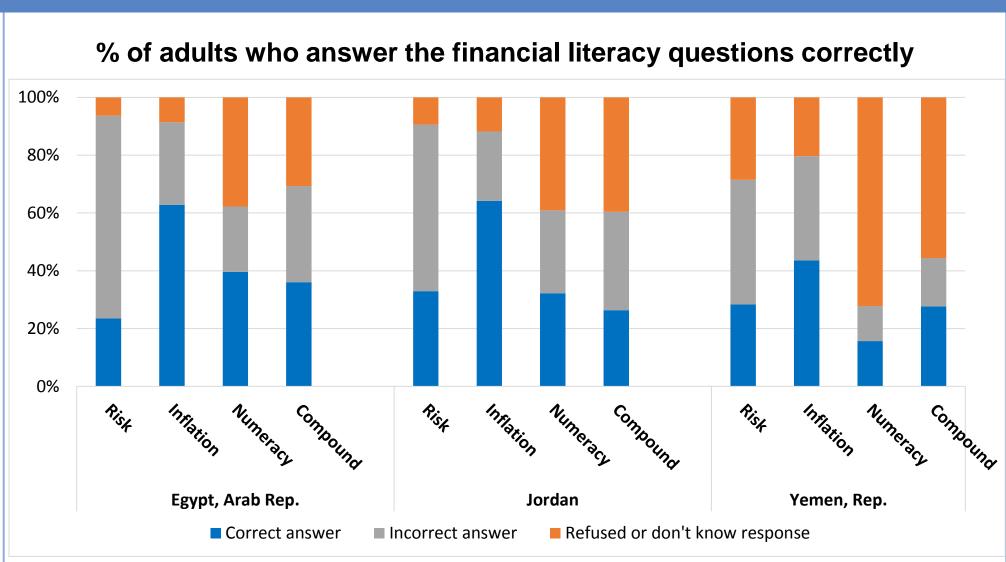
Financial literacy globally: What do people know?

% of adults who answer the financial literacy questions correctly



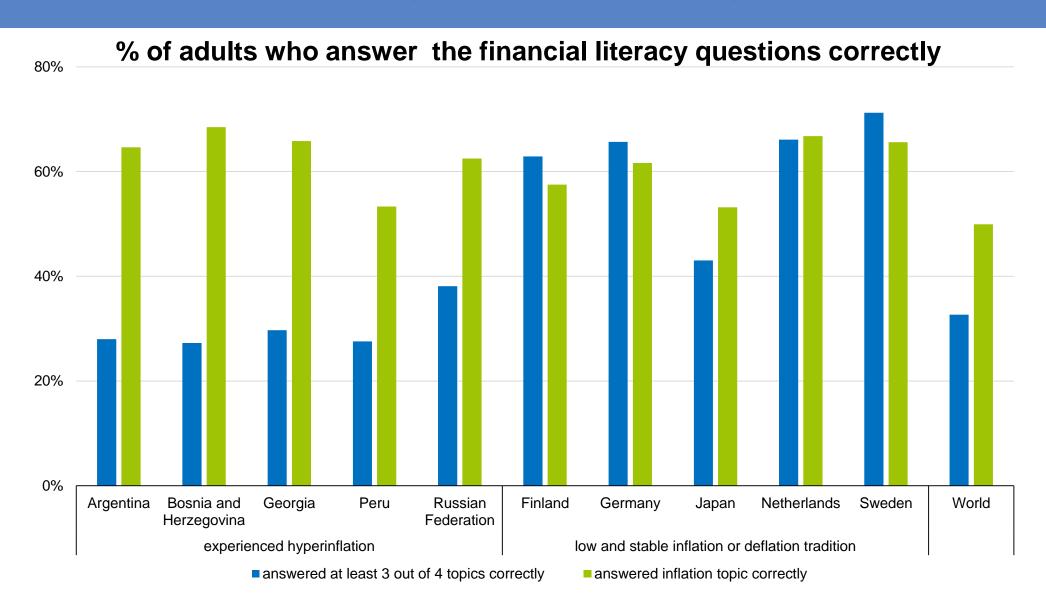
- Inflation and simple interest/numeracy is what people know the most
- Risk diversification is what people know the least and where differences are largest

Financial literacy globally: Knowledge of compound and simple interest



 Knowledge of compound and simple interest is normally high, but not in Muslim countries (prevalence of 'do not know" answers

Financial literacy globally: Knowledge of inflation



Respondents in countries that experienced high inflation are more likely to know about it

Financial literacy around the world: Which topics do people know?

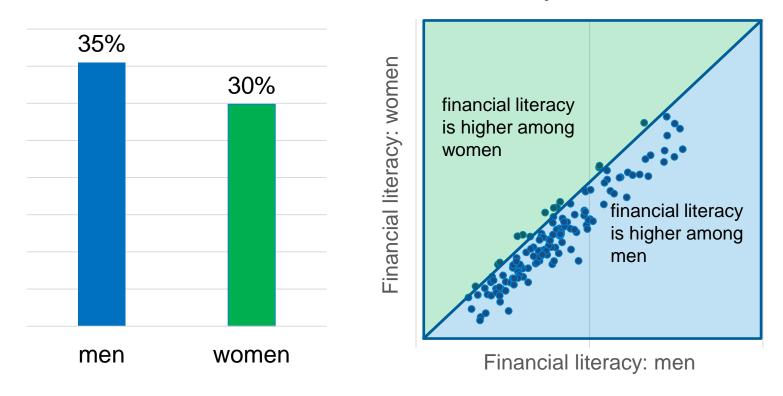
Digging deeper in the financial literacy measure

- Inflation and simple interest/numeracy is what people know most across countries
 - >There are differences across countries
- > Evidence of learning by experience
 - ➤ Respondents in countries that experience hyperinflation know more about inflation
- > Risk diversification is what people know the least
 - ➤ Large differences across countries

These findings are consistent with data from other surveys

The gender gap in financial literacy

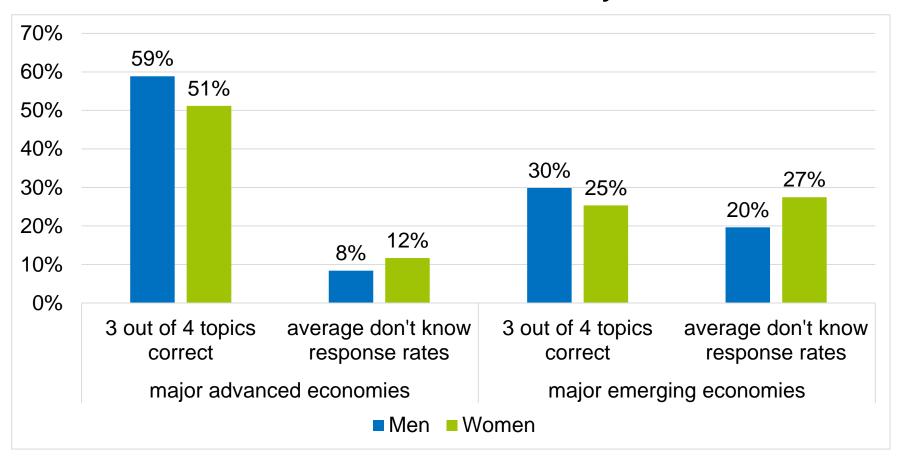
% of adults who are financially literate



- The average gender gap in financial literacy is 5 percentage points
- The gender gap in financial literacy is present in most countries

Gender differences in financial literacy are everywhere

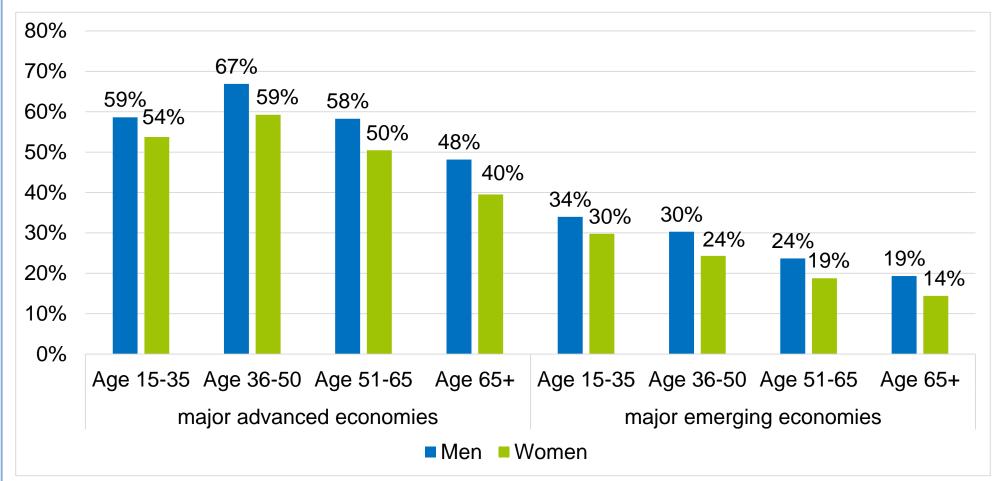
% of adults who are financially literate



Women are more likely to answer "I do not know"

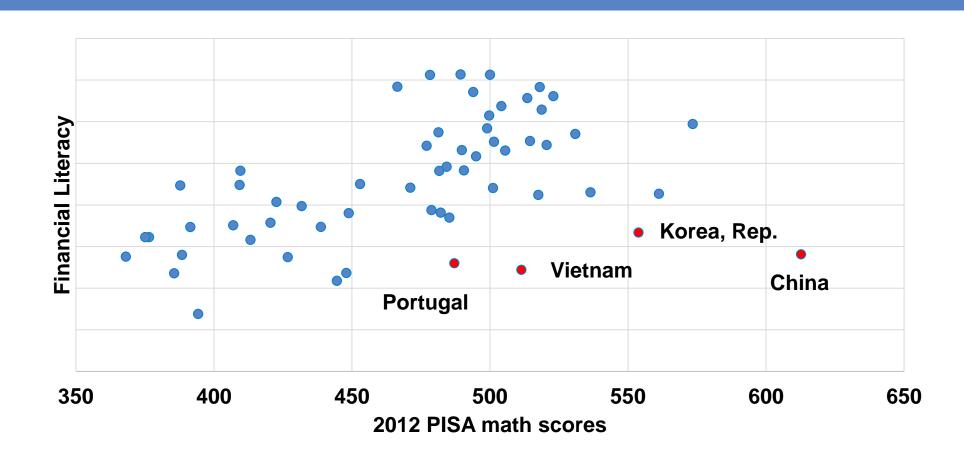
Financial literacy over the life cycle: By gender





- Knowledge of women is low across the life cycle & across countries
- Different life cycle profiles of financial literacy across countries

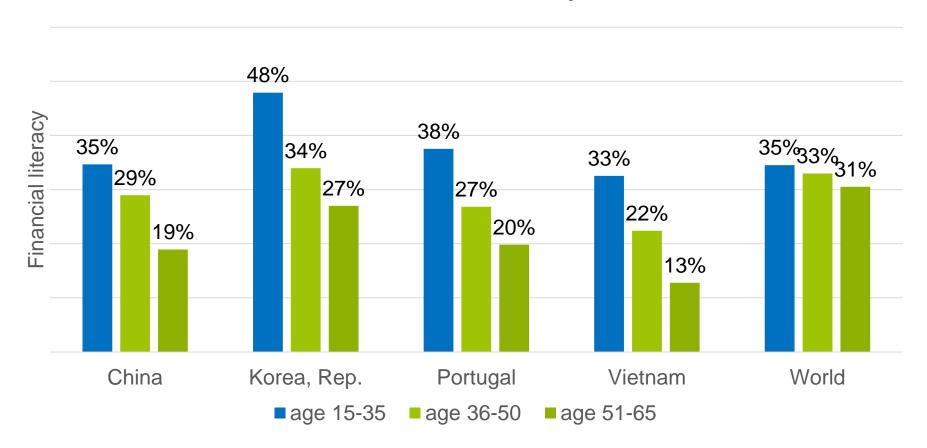
Combining data from PISA (math) and Gallup Survey



- Positive relationship between knowledge of the young and the general population
- The young are doing well in some countries

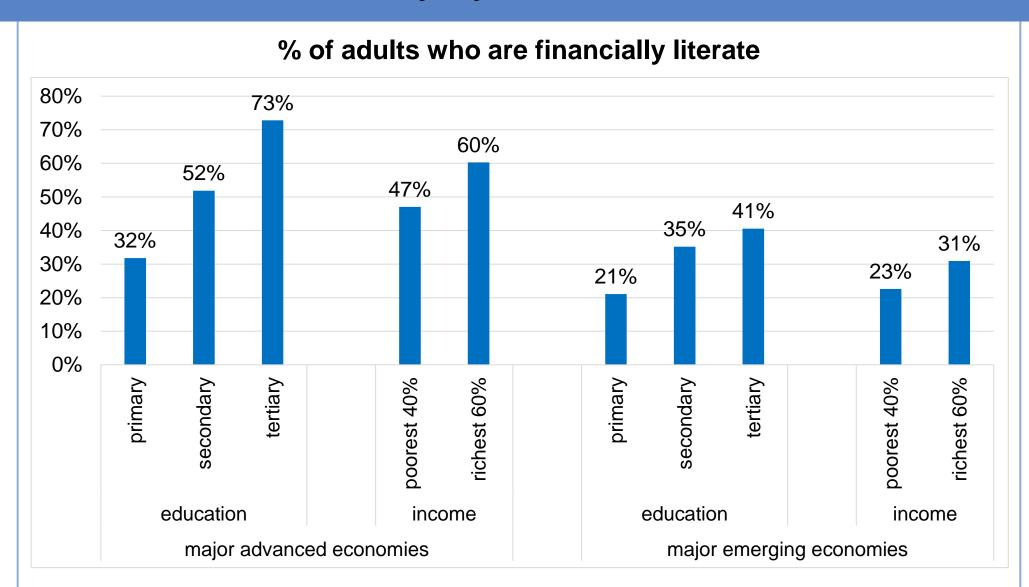
Financial literacy among the young in selected countries

% of adults who are financially literate



- Financial literacy is relatively high among the young in these countries
- GFLS can be used to identify success stories; link with policy initiatives

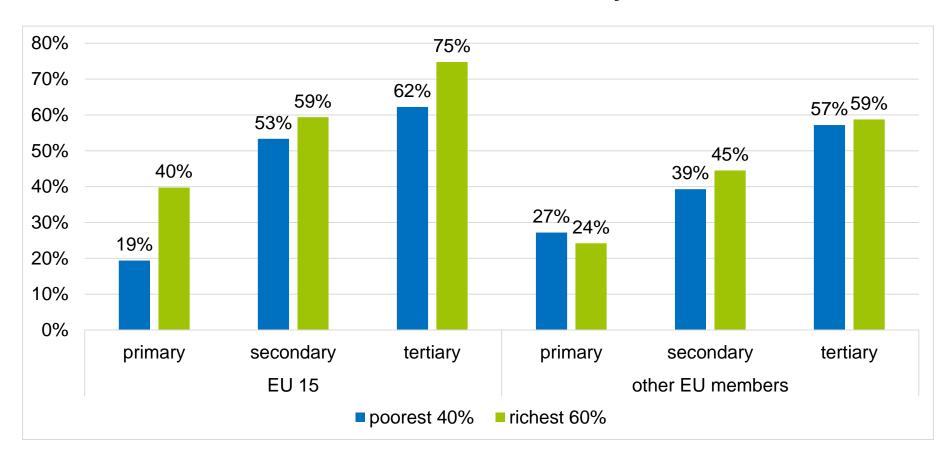
Financial literacy by income and education



Similar findings in other surveys

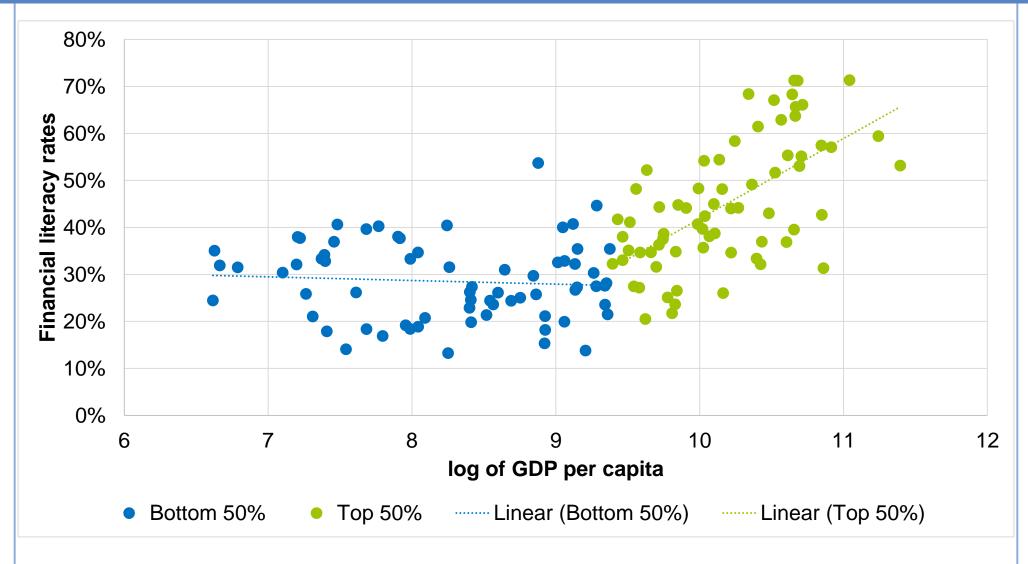
Financial literacy by income and education in EU

% of adults who are financially literate



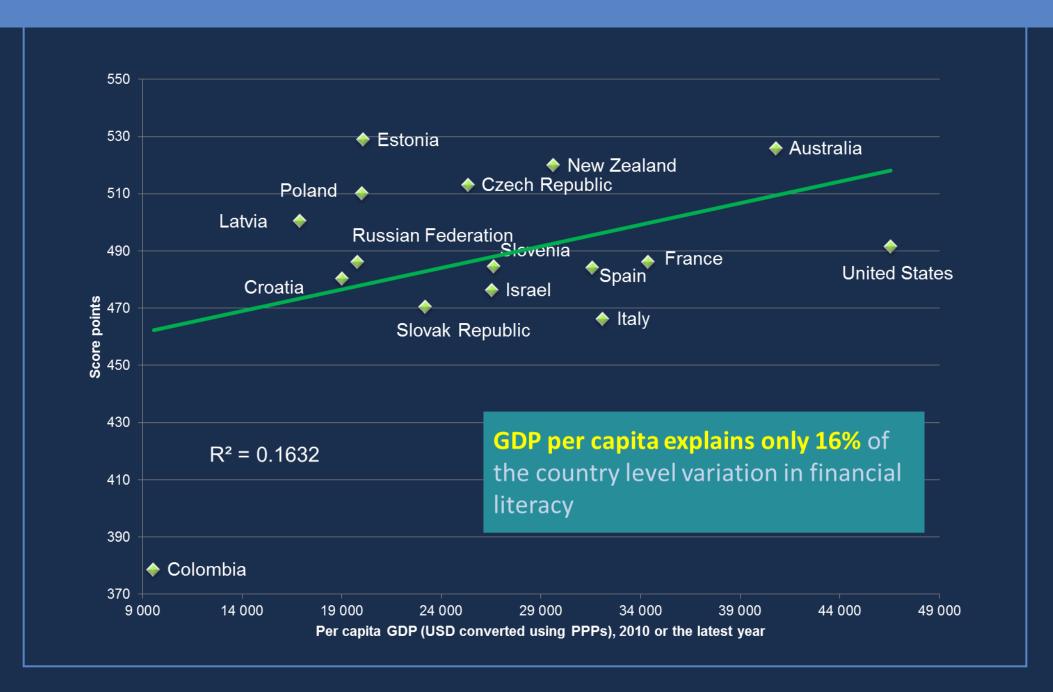
Strong correlation of financial literacy with education and income in most countries

Financial literacy and log of GDP per capita



Positive relationship in higher income countries

Financial literacy and GDP per capita in PISA



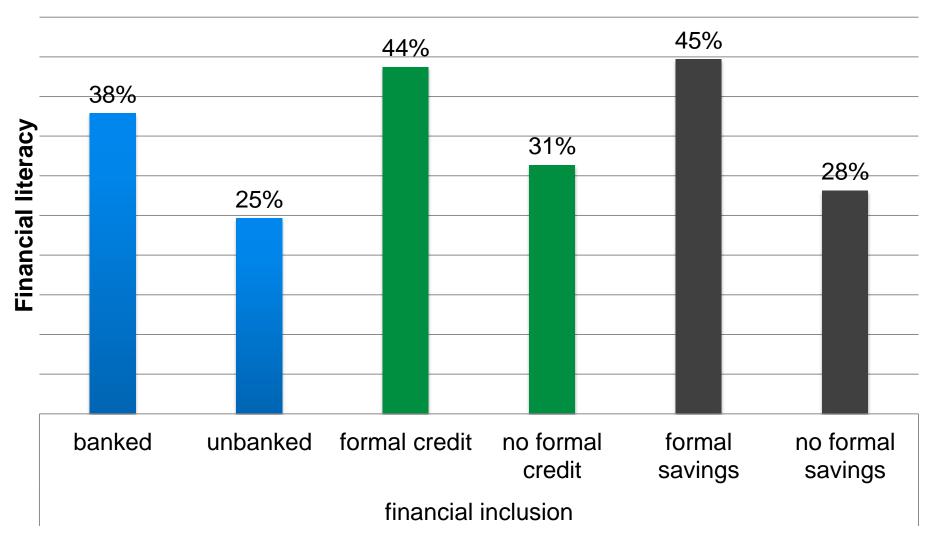
Differences in financial literacy around the world

Very rich data to understand differences in finlit

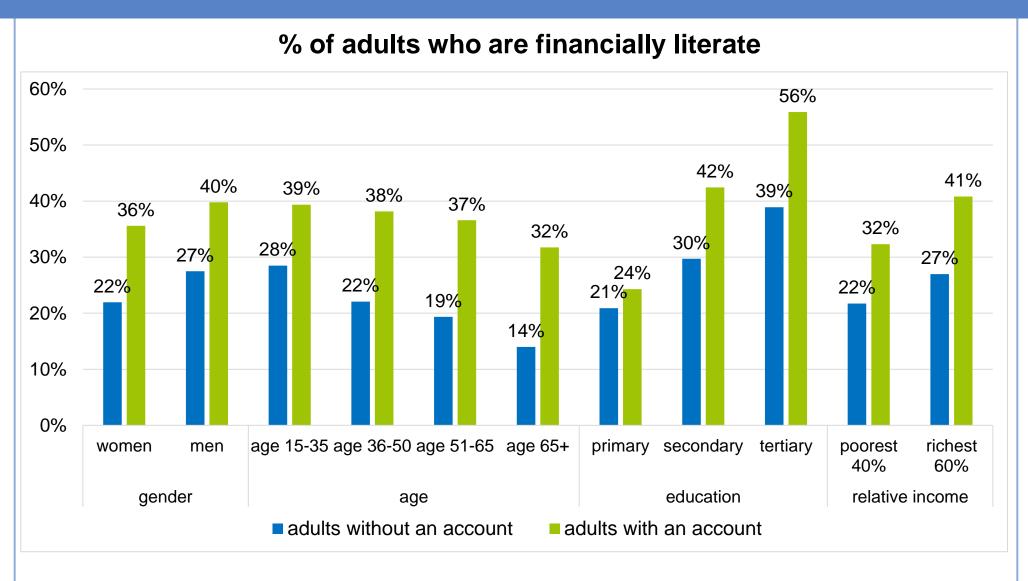
- Differences in financial literacy are large across countries and within countries
- Gender differences in financial literacy in all countries
 - ➤ Women are more likely to know that they lack knowledge!
- The young are a vulnerable group, but not in all countries
- Differences across education and income

Financial literacy and financial inclusion



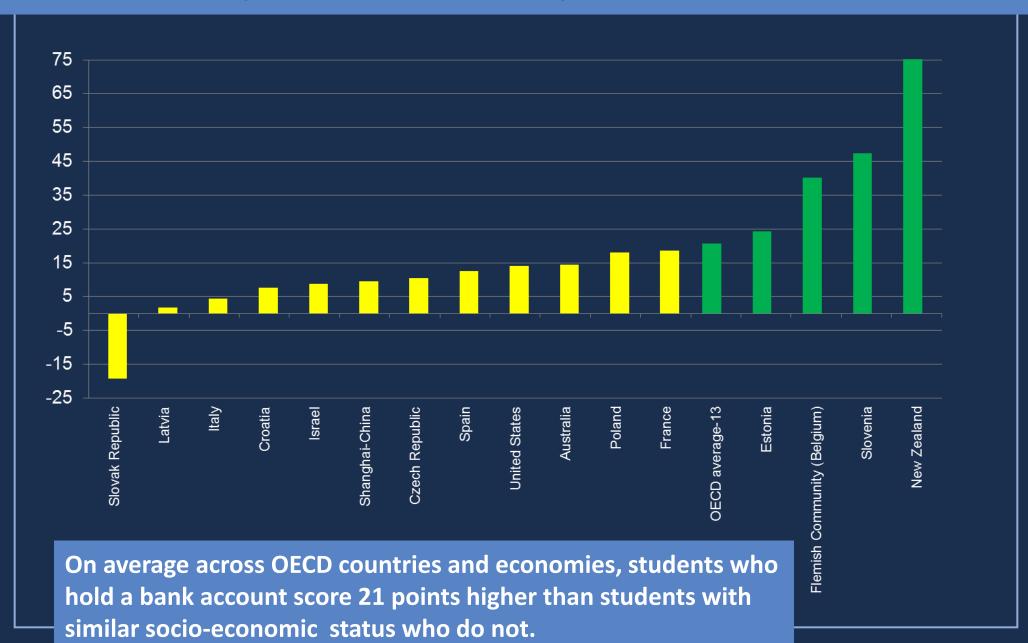


Financial literacy and bank accounts

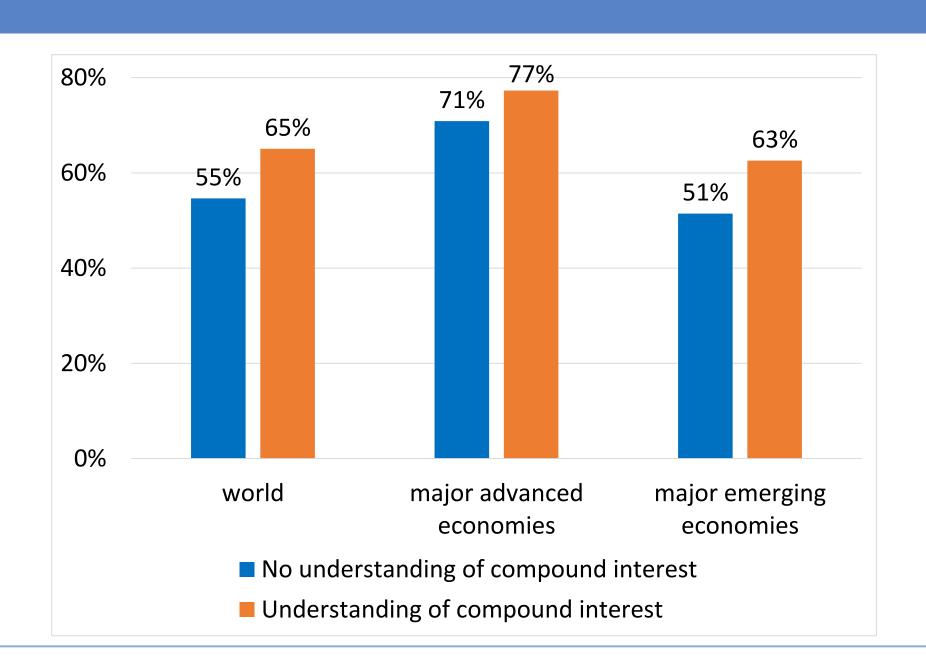


Positive links between financial literacy and financial inclusion

Financial literacy and bank account holding (accounting for socio-demographics) in PISA data



Account use among account holders who save



Several findings

Summary and take-aways

- Financial illiteracy is widespread in the population
- Risk diversification is most difficult concept to grasp
- Differences in financial literacy are very large across demographic groups
- There is a link between financial literacy and financial inclusion

Implications for investor education

How these data can inform policy and programs

- Financial illiteracy is widespread
 - We are at a crisis level
- One size does not fit all
 - Need for more targeted programs, particularly for vulnerable groups
- Women are ideal targets for financial educ programs
- Limited (one-time) financial education programs are not going to be effective
 - Widespread financial illiteracy requires robust interventions

Implications for investor education (cont.)

How these data can inform policy and programs

- Communication should be done in simple ways
 - Little knowledge of basic finance jargon
- We need large and scalable programs
 - Financial education in school
 - Financial education in the workplace
 - Financial education in the community (libraries, museums, other places where people go to learn)

Final thoughts

Shifting paradigm

- > Financial literacy is like reading and writing
 - As it was not possible in the past to participate in society without being able to read and write, so it is not possible to thrive in today's society without being financially literate

- ➤ Building human capital for the 21st century
 - Everyone deals with finance and finance is sufficiently complex that we cannot leave it to the individual to learn by himself/herself

Quote

"Knowledge is in every country the surest basis of public happiness."

George Washington, First President of the United States (1789–97)

Quote

"(Financial) knowledge is in every country the surest basis of public happiness."

George Washington, First President of the United States (1789–97)

Final quote

"If you think education is expensive, try ignorance"

Derek Bok, Former President of Harvard (1971-1991)

Contact and further information

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