

# Gender Differences in Financial Literacy: Evidence and Implications

June 1st, 2018

Annamaria Lusardi

Global Financial Literacy Excellence Center (GFLEC)
The George Washington University School of Business



## **Changing financial landscape**

Changes in demographics

➤ Longer life expectancy

Changes in pension systems

>More individual and private accounts

Changes in financial markets

- ➤ Greater complexity
- More opportunities to borrow and in large amounts

Changes in labor markets and education

- ➤ Workers change job often, gig economy
- ➤ Rising cost of education

Changes in technology

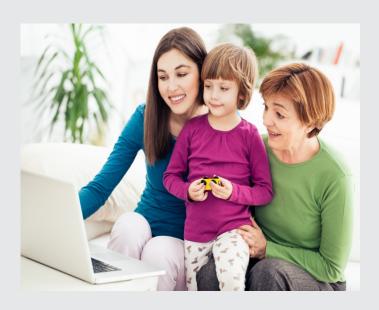
➤ Rise of fintech





### Women and financial decisions

- Unique challenges for women relative to men
  - Longer life expectancies
  - Lower lifetime income
  - Career interruptions due to child rearing
- Specific needs
  - Greater need to plan for old age
  - Different savings needs
- Other characteristics
  - Multiplier effect because women care for others





# **Some questions**

- 1. How well equipped are women to make financial decisions: How financially literate are they?
- 2. What explains the gender differences in financial literacy
- 3. What are the implications for policy and programs?



# Financial literacy: Starting global

# Measuring financial literacy around the world



# A simple measure of financial literacy

# **The Big Three**

- 1. "Suppose you had \$100 in a savings account and the interest rate was 2% per year. After 5 years, how much do you think you would have in the account if you left the money to grow?"
- 2. "Imagine that the interest rate on your savings account was 1% per year and inflation was 2% per year. After 1 year, with the money in this account, would you be able to buy..."
- 3. "Do you think the following statement is true or false? Buying a single company stock usually provides a safer return than a stock mutual fund."

- ✓ More than \$102
- Exactly \$102
- ☐ Less than \$102
- □ Don't know
- □ Refuse to answer
- More than today
- Exactly the same as today
- Less than today
- □ Don't know
- □ Refuse to answer
- □ True
- **∡** False
- Don't know
- ☐ Refuse to answer



# Financial Literacy around the World (FLat World)

#### Evidence from 15 countries (and more):

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



These 3 questions are now in the 2016 US Survey of Consumer Finances (SCF) and the 2017 Federal Reserve's Survey of Household Economics and Decisionmaking (SHED)



#### **How much do Americans know?**

# Distribution of responses across the U.S. population (2009 National Financial Capability Study)

#### **Distribution of Responses to Financial Literacy Questions (%)**

	Responses				
	Correct	Incorrect	DK	Refuse	
Interest rate	65%	21%	13%	1%	
Inflation	64%	20%	14%	2%	
Risk diversif.	52%	13%	34%	1%	

NB: Only 30% correctly answer all 3 questions; less than half (46%) got the first two questions right.



#### How much do the Dutch know?

# Distribution of responses across the Dutch population (2010 Dutch Central Bank Household Survey)

#### Distribution of Responses to Financial Literacy Questions (%)

	Responses		
	Correct	Incorrect	DK
Interest rate	85%	5%	9%
Inflation	77%	8%	14%
Risk diversif.	52%	13%	33%

NB: Only 45% correctly answer all 3 questions; more than half (73%) got the first two questions right.



#### **How much do Canadians know?**

# Distribution of responses across the Canadian population (2012 CSA Investor Index Survey)

#### **Distribution of Responses to Financial Literacy Questions (%)**

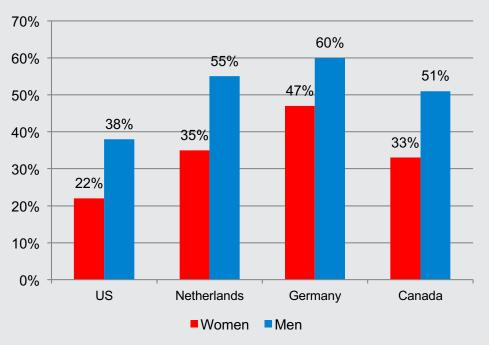
	Responses		
	Correct	Incorrect	DK
Interest rate	78%	13%	9%
Inflation	66%	18%	16%
Risk diversif.	59%	10%	31%

NB: Only 42% correctly answer all 3 questions; A little more than half (58%) got the first two questions right.

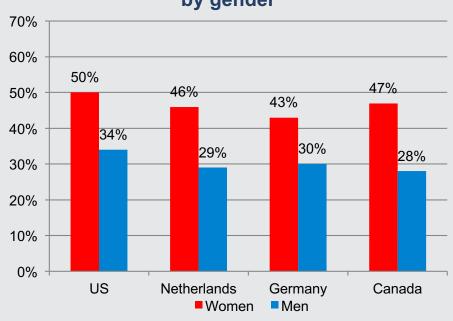


# Gender differences in financial literacy

# Financial knowledge by gender (% answering 3 Qs correctly)



# At least one "don't know" answer by gender



- Very robust findings of large gender differences in financial knowledge
- Women are much more likely to say "I do not know"



### The S&P Global Finlit Survey

- The S&P Global Financial Literacy Survey is the largest, most comprehensive measure of financial literacy
- ➤ Interviewed more than 150,000 adults age 15+ in 143 countries in 2014
- The survey provides key information to policy makers, regulators, the private sector, and academics





# The S&P Global Finlit Survey



The survey covers four topics:

- Numeracy
- Interest compounding
- > Inflation
- > Risk diversification

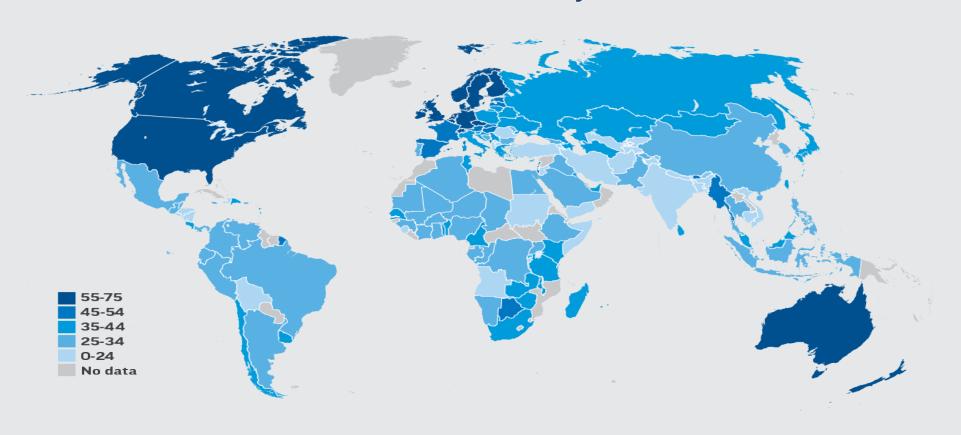
Being financially literate:

How many can answer 3 out of these 4 topics correctly (a passing grade)



# **Financial literacy globally**

### % of adults who are financially literate

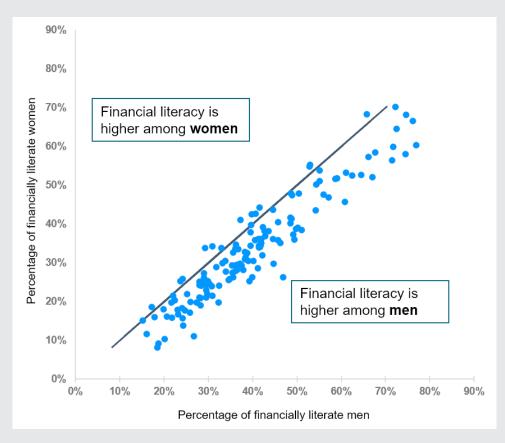


Only 1 in 3 adults worldwide responded correctly to three out of four topics.



# Gender gap in financial literacy around the world

In most economies around the world, men have a better understanding of basic financial concepts than women

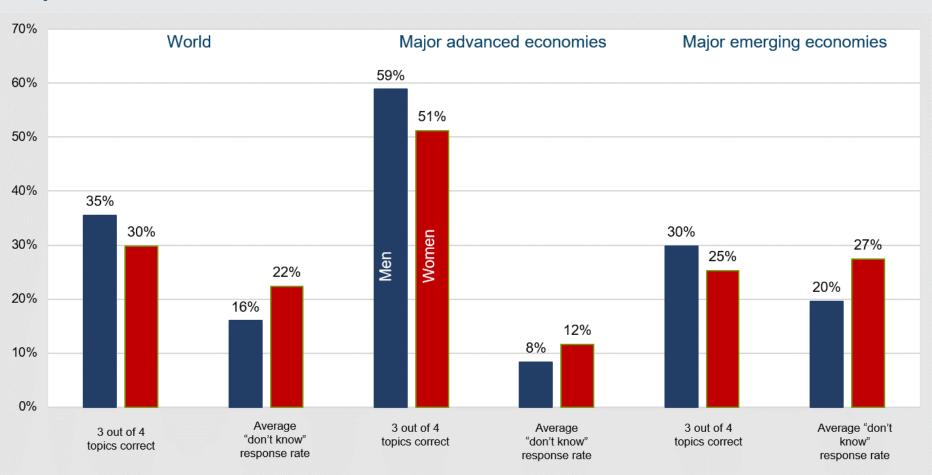


Source: Global FinLit Survey



# Financial literacy around the world, by gender

# Women are disproportionately more likely than men to respond to a question with "I do not know."





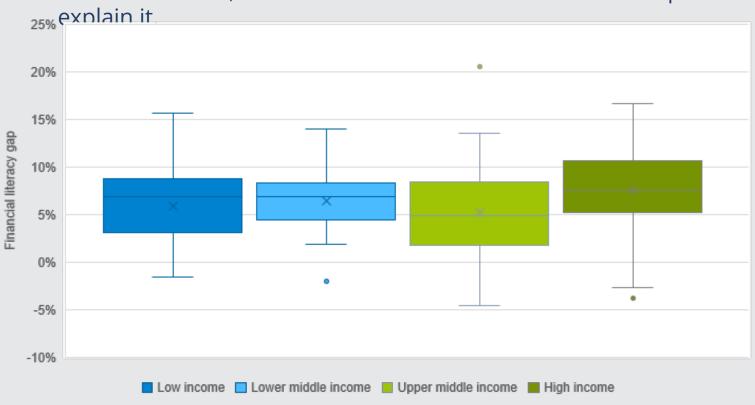
# **Women and financial literacy**

# What explains the gender differences?



# Gender gap distribution by country income levels

The gender gap in financial literacy is large and persistent across countries, and there is no evidence that income helps





### Other determinants

- Education system does not seem to explain it
  - There is a gender difference even in countries with strong education systems and more equal societies (ex: Finland)
- In some countries gender differences are present very early in life
  - According to PISA data, gender differences are present among 15 year old students in Italy

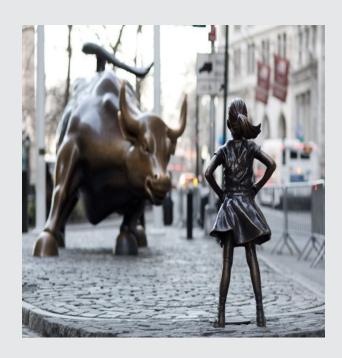


- How about confidence?
  - Looking closer at the "do not know" responses



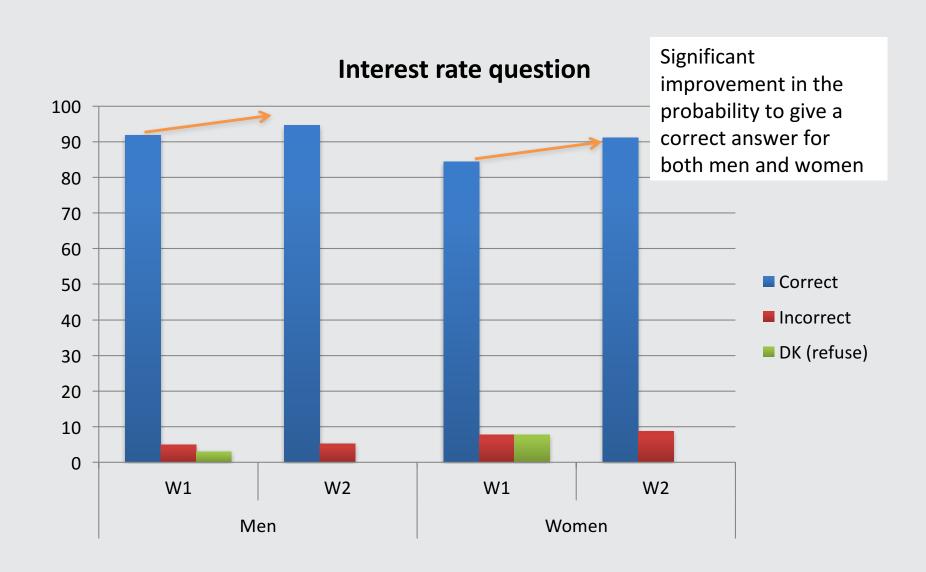
### **Other determinants: Confidence**

- Work with data from the Dutch Central Bank Household Survey
- Ask the Big Three questions in 2 waves (w1 and w2) with and without the "do not know" option
- We also asked how confident respondents were about their answer
- We find that responses are a mix of knowledge and confidence





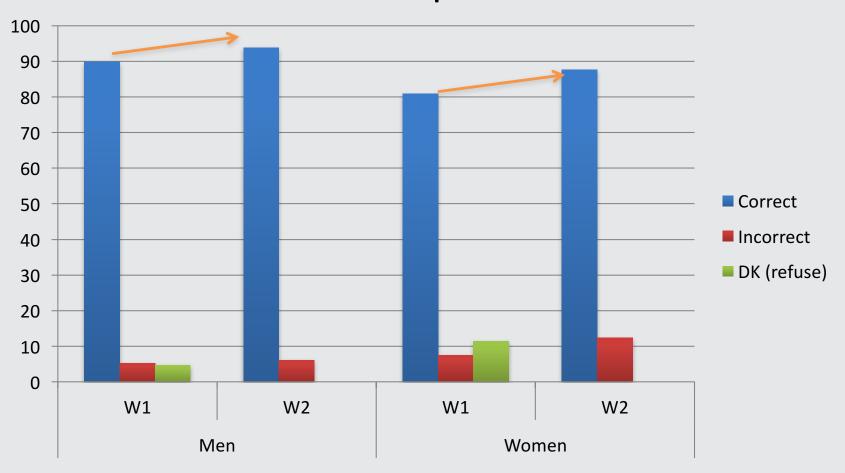
# Taking away the "do not know" option





# Taking away the "do not know" option

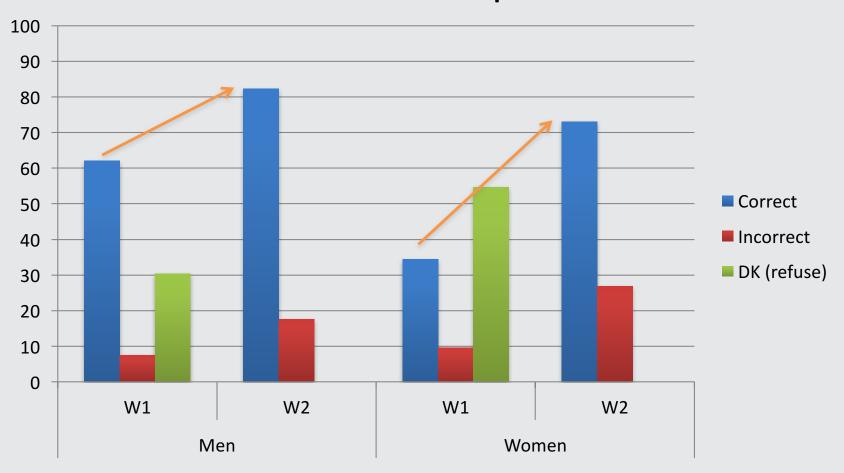
# **Inflation question**





# Taking away the "do not know" option

# **Risk diversification question**

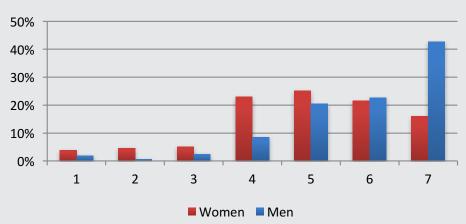




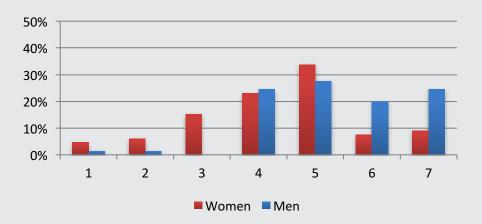
# **Gender differences and confidence**

# Confidence conditional on being correct, incorrect, and "do not know." Risk diversification question

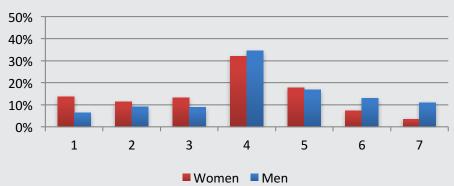
#### **Confidence cond. Correct**



#### Confidence cond. Incorrect



#### Confidence cond. Do not know







# Financial literacy and personal finance outcomes

Individuals/women who are financially literate are also more likely to:

- Cope with emergency expenses/less likely to be financially fragile
  - > Can come up with \$2,000 in 30 days
- Manage their debt well
  - Less likely to have "too much debt."
- ➤ Have long-term savings:
  - ➤ More likely to plan for retirement
  - More likely to have financial investments, aside from retirement accounts.





# Financial fragility - GFLEC's latest research

New research released in April 2018

# **Measuring financial fragility:**

How confident are you that you could come up with \$2,000 if an unexpected need arose within the next month?

- I am certain I could come up with the full \$2,000
- > I could probably come up with \$2,000
- ➤ I could probably not come up with \$2,000
- ➤ I am certain I could not come up with \$2,000
- Don't know
- Prefer not to say





# Financial literacy and wealth inequality





- Consider a life cycle model of saving with financial literacy
- Financial literacy affects the return on savings
- Financial literacy is an important determinant of wealth and wealth inequality
- Important finding: **30-40%** of U.S. retirement wealth inequality can be attributed to difference in financial knowledge



# **Promoting financial literacy**

# Implications for policies and programs



### What we learn from the data

- Need to improve levels of financial literacy
  - > Levels of knowledge are critically low globally
  - > Even in countries with high income and well developed markets
- Gender difference in finlit in most countries
  - Need programs targeted to women
  - Role of confidence
- Some topics are particularly hard
  - Risk and risk diversification





# Given widespread financial illiteracy

## **Need for 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)









#### Our initiative : Everybody can help promote financial literacy

# Personal finance courses for college students

- Use a rigorous quantitative approach
- Cover the basics, in particular risk and risk diversification
- Cover personal finance topics, such as saving and investing, retirement planning, insurance, etc.
- Material available for free on our website
- Pay attention to gender differences





# Financial education in the workplace: The Dartmouth project

- We designed a program that targeted individuals who wanted to save but were limited by a lack of knowledge
- > The aim of the program was to
  - Simplify financial decisions
  - Provide information when needed by individuals
  - Target specific groups: women and low income workers





## **Planning Aid**

We have outlined 7 simple steps to help you complete the application.

- Select a 30 minute time slot right now to complete the online contribution to your Supplemental Retirement Account (SRA) during the next week.
- 3 minutes. Check to see if you have the following materials: a) worksheet in your benefits packet √, and b) the name and social security number of a beneficiary √.
- 3. Select the amount you want to invest for 2006 (minimum: \$16/month, maximum: \$1,666.67/ month), even if you don't know your take-home pay in your first month. If you want, you can change this amount at a later date. This voluntary contribution is tax-deferred, you will not pay taxes on it until you withdraw the funds.
- 4. <u>5 minutes.</u> Select a carrier. if you do not select a carrier, Dartmouth will invest the non-voluntary portion of your college funds in a Fidelity Freedom Fund, a fund that automatically changes asset allocation as people age.
- 5 minutes. Now you are ready to complete your worksheet.
   Complete the worksheet even though you may be unsure of some options. You can change the options in the future.
- 6. Take your completed worksheet to a computer that is available for 20 minutes. If you like, you can use the one in the Human Resources office at 7 Lebanon Street, Suite 203.
- 7. 15-20 minutes. Log on to Flex Online and complete your online SRA registration within the 20 assigned minutes. Be sure to click on the investment company (TIAA-CREF, Fidelity, or Calvert) to complete the application. You need to set up your account otherwise your savings will not reach the carrier.

















Development of a comprehensive, cost-effective planning aid to improve participation in and contribution to Supplementary Retirement Accounts (SRAs)



# In their own words: four videos



# **Topics discussed:**

Hopes for retirement

Why they save

How they save

Planning for the future

Their recommendations



# Results from the Dartmouth project

➤ There was a large increase in savings enrollment within 30 and 60 days of hiring among participants who received the brochure.

	30 days After Hire	60 days After Hire	Number of Observation s
Control Group	7.3%	28.9%	210
Planning aid	21.7%	44.7%	166

➤ Videos generated an increase in enrollment of 56%.



## These statistics are not our destiny



# Annamaria Lusardi Appointed Director of Italy's New Financial Education Committee

This appointment supports GFLEC's vision of promoting the development of a financially literate world.

In July 2017, I was appointed by Italy's Minister of Economy and Finance as director of the new Financial Education Committee

The Committee designed a national strategy for financial literacy

First initiative: a portal of financial education

More initiatives and targeted to women



# **Concluding remarks**

# Financial literacy is like reading and writing

- ➤ It is an essential skill for the 21st century
- > We need to empower women so they can be financially secure



# Thank you!

Questions? Contact us at gflec@gwu.edu



(202) 994-7148 | gflec@gwu.edu | www.gflec.org