The Future of Financial Wellness Stanford Center on Longevity, September 30, 2014

The effectiveness of financial literacy programs

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The growing importance of financial literacy

A new economic landscape

Major changes that increase individuals' responsibility for their financial well-being

Changes in the pension landscape

More individual accounts and DC pensions

Changes in labor markets

- Divergence in wages skills are critical
- More flexibility workers change job often

Changes in financial markets

- More opportunities to borrow & in large amounts
- Greater complexity



Increase in individual responsibility

Being our own CFO

Individuals are now in charge of deciding

- How much to contribute to retirement accounts
- How to invest retirement wealth
- How to decumulate retirement wealth
- Not enough to look at asset side; liability side is equally important
 - Increase in household debt, even close to retirement
 - Debt normally incurs higher interest rates than what is earned on assets

Financial decisions are complex

Many more financial products than in the past



A large amount of research in past 15 years

Some questions

- 1. How well-equipped are people to make financial decisions?
- 2. Are there groups to target?
- 3. Does financial literacy matter?
- 4. What makes financial education programs effective?

How well-equipped are people?

Do individuals know the basic concepts that are key to making financial decisions?

Aim: Assess knowledge of basic concepts: The *abc*'s of personal finance

The journey of three simple questions

Measuring financial literacy (I)

To test numeracy and understanding of interest rates, we asked:

"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?"

More than \$102

- □ Exactly \$102
- Less than \$102
- Don't know
- Refuse to answer

Measuring financial literacy (II)

To test understanding of inflation, we asked:

"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..."

- More than today
- Exactly the same as today
- Less than today
- Don`t know
- Refuse to answer

Measuring financial literacy (III)

Finally, to test understanding of risk diversification, we asked:

"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."

True

False

- Don`t know
- Refuse to answer

Financial Literacy around the World (FLat World)

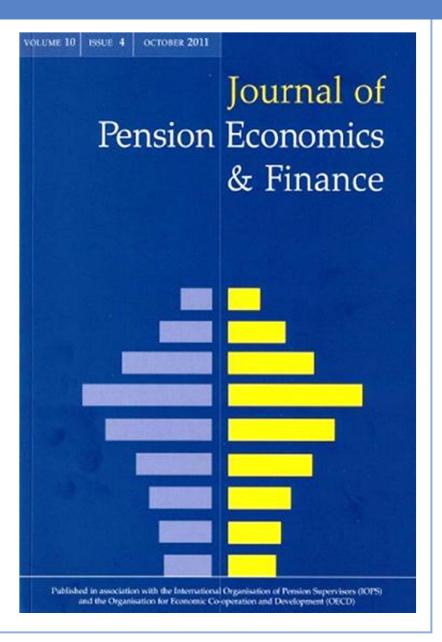
Evidence from 13 countries:

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



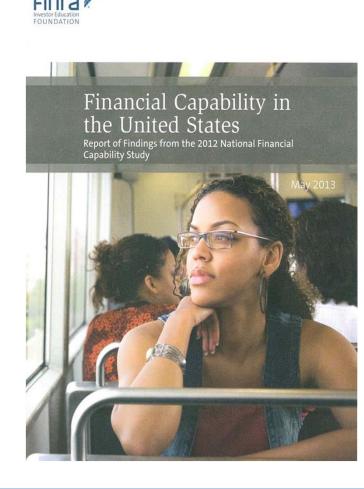
Special issue of JPEF, project ongoing

- Financial Literacy around the World (FLat World)
- We published a paper for each participating country



New data for the United States

The 2009 & 2012 National Financial Capability Study







Financial Capability in the United States

National Survey—Executive Summary

How much do Americans know?

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

	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 answered all three Qs; less than half (46%) got the first two Qs right. Strikingly similar evidence across countries.

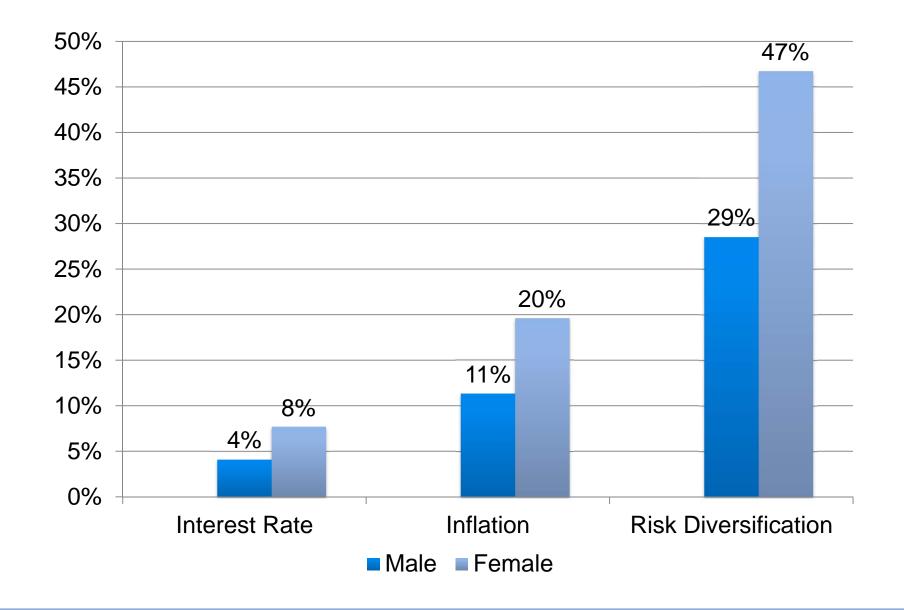
Financial literacy across age groups (2012 NFCS)

The widespread lack of financial literacy

	Total sample	Millennials	Mid-career	Pre-retirees
Interest Q correct	80%	75%	81%	83%
Inflation Q correct	65%	50%	68%	79%
Risk Q correct	54%	44%	56%	62%
All 3 Qs correct	41%	28%	43%	51%

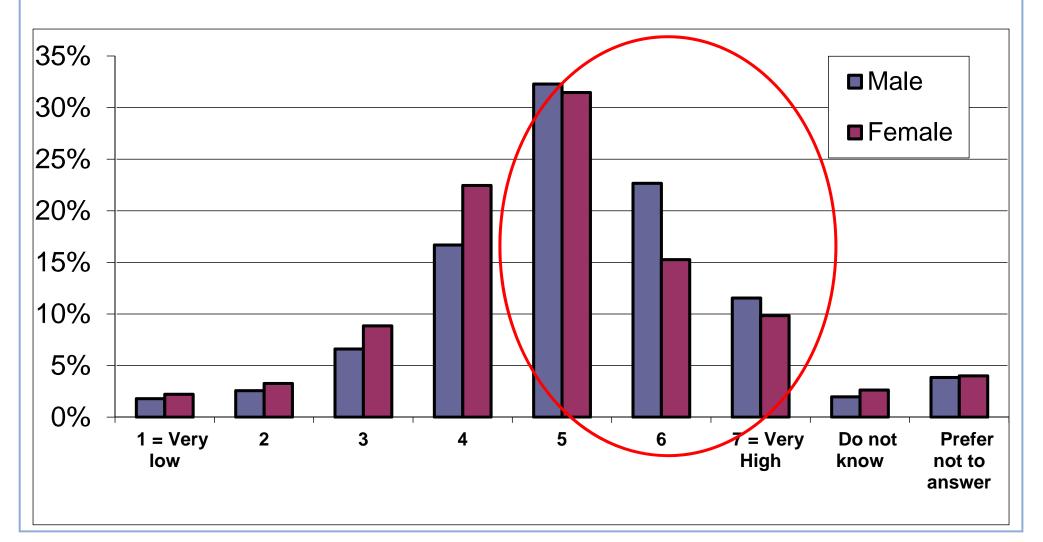
Note: Respondents aged 23 to 61 and employed at the time of the survey. Young people know the least in most countries.

"Do not know" responses by gender (age 23-28, NLSY). Same finding in all 13 countries



Gender differences in self-reported literacy (TNS data for US - 2009)

On a scale of 1(very low) to 7 (very high), how would you assess your overall financial knowledge?



Implications for financial education

What the research suggests

- Need to improve levels of financial literacy
 - Risk diversification is most difficult concept
- Need for more targeted programs
 - One size does not fit all
- Women are an ideal group for fin. educ. programs
- It will be difficult to engage employees
 - They are not aware of their lack of knowledge

Turning to behavior

We have looked at several outcomes

Retirement planning

An important determinant of wealth

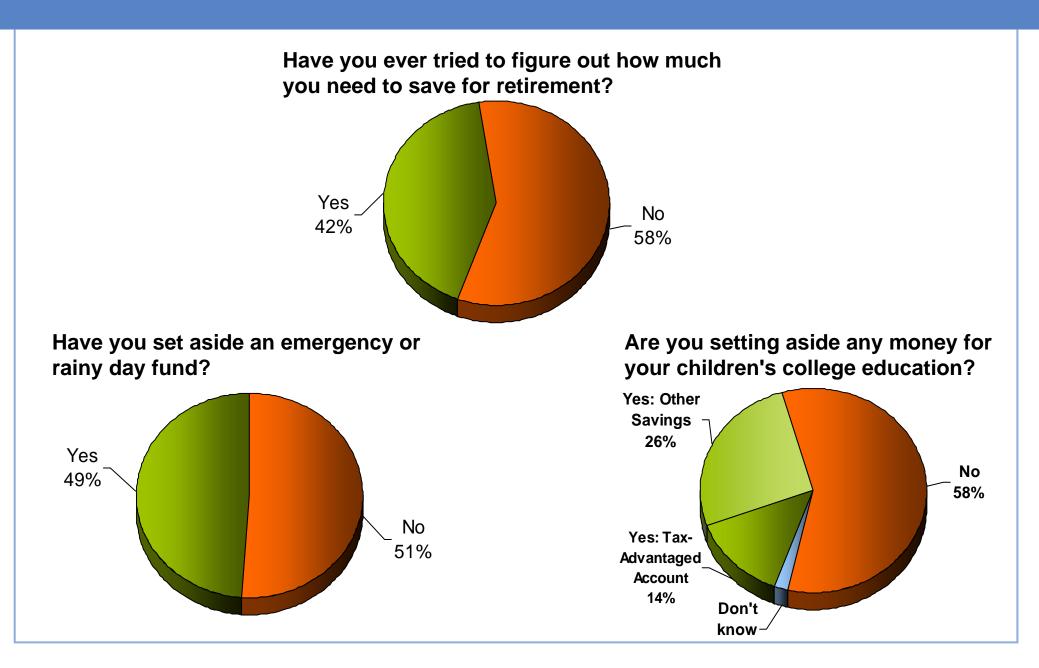
Investing

Returns on investment, accounting for risk

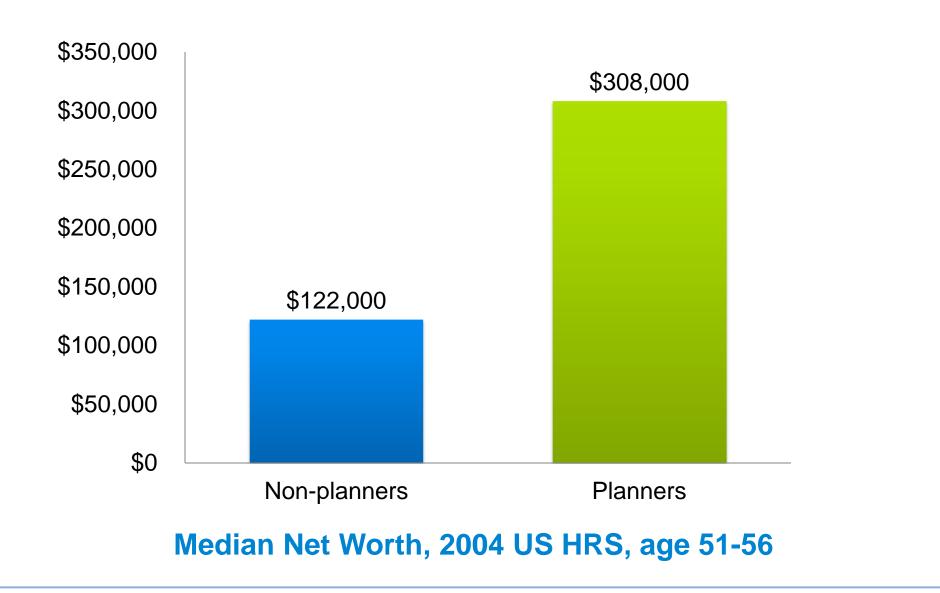
Borrowing

Main message: Financial literacy matters!

Planning ahead: Most Americans don't



Retirement planning and wealth holdings



Linking financial literacy to behavior

Financial literacy is an important determinant of retirement planning

Across countries:

- Financial literacy affects retirement planning and the causality goes from literacy to planning
- Knowledge of risk diversification is most important for retirement planning
- Financial literacy affects other decisions, for example borrowing and investing

Recent research work

Financial knowledge & 401(k) investment performance

- Use administrative data from large financial institution
 - High quality data

Designed survey that had the 3 financial literacy questions

- Higher financial literacy than in the US population
- Linked financial literacy to return on 401(k) investments
 - Unique data

Those who are more financially literate earn 130 basis points more on their portfolio (adjusted for risk)

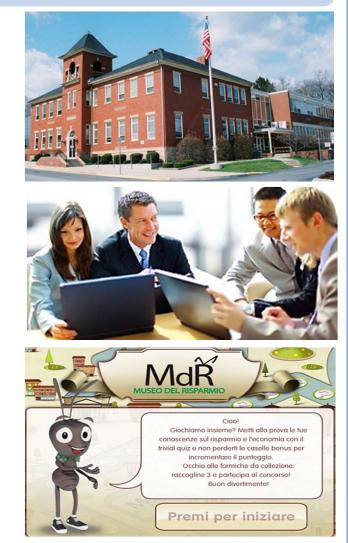
Similar evidence is emerging in other papers

From research to applications

Venues for financial education

In schools

- Easier to reach the young
- In the workplace
 - Easier to reach the adults
- In libraries, local communities, museums
 - Where people go to learn



Financial education in schools

Need to prepare the new generations

Financial education in school is critically important:

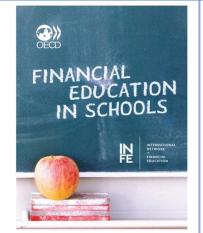
- Investment in higher education is one of the most important decisions the young face
 - Young people start their economic life in debt
- Need to be financially literate before engaging in financial transactions

Provide a basis on which to build

It will be cheaper to do workplace financial education

OECD's Programme for International Student Assessment (PISA). Financial literacy added in 2012

Are students well prepared for future challenges? Can they analyze, reason and communicate effectively? Do they have the capacity to continue learning throughout life?





PISA 2012 Assessment and Analytical Framework MATHEMATICS, READING, SCIENCE, PROBLEM SOLVING AND FINANCIAL LITERACY



Every three years the OECD Programme for International Student Assessment (PISA) answers these questions and more. It assesses to what extent students near the end of compulsory education have acquired some of the knowledge and skills essential for *full participation in society.*

How are younger generations doing?

Findings from the 2012 PISA financial literacy data

- In comparison to other countries, the US ranked average
- 18% of US students scored below the proficiency level
- There are large differences across demographic groups
- Most of the variation in financial literacy is explained by socio-economic status

How to help employees make financial decisions

The Dartmouth Project

- Simplify financial decisions
- Provide information when needed by individuals
- Target specific groups
- Use communication that does not rely on figures and numeracy



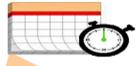
A Planning aid

1.

Together with a marketing professor, I designed a planning aid intended to help Dartmouth College employees enroll in supplementary retirement accounts (SRA)

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.
- 2. <u>3 minutes</u>. Check to see if you have the following materials: a) worksheet in your benefits packet $\sqrt{}$, and b) the name and social security number of a beneficiary $\sqrt{}$.
- 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.
- <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. <u>5 minutes</u>. 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.
- 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.
- <u>15-20 minutes</u>. 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.











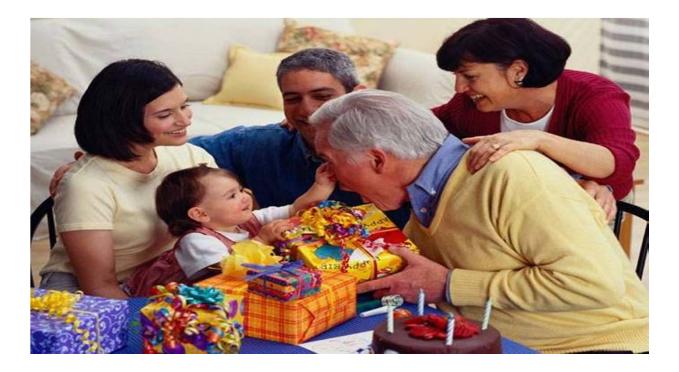






A Planning aid

Don't give up! Contact the Benefits Office (6-3588) if for any reason you could not complete the online application.



It takes no time to prepare for your lifetime!

Most people plan on electing a supplemental retirement account, but feel they don't have the time or information right now. We have outlined 7 simple steps to help you complete the election process. It will take between 15 - 30 minutes, from start to finish. It will take less time for you to start to insure your future than it takes you to unload your dishwasher!

Program effectiveness

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 Observations
Control Group	7.3%	28.9%	210
Planning aid	21.7%	44.7%	166

In their own words: Four videos



Topics discussed:

Hopes for retirement

Why they save

How they save

Planning for the future

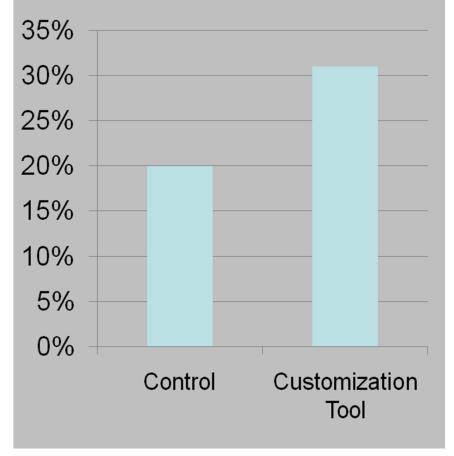
Their recommendations

Effects of videos

Increase of 56%

Possibility to test because HR did not show videos on some days

Employee Enrollment in Additional Retirement Account



Main takeaways

The Dartmouth Project

- Even small interventions can have large impact
- >These are low-cost changes
- Need to listen to employees, debt was their main concern
- HR is not well equipped to deal with DC pensions



NYSE Workplace Financial Fitness Toolkit

A program for any company

- Ten steps divided into 3 stages: Basic, Intermediate, and Advanced
- Customize the program for employees One size does not fit all
- The Employee Checklist Ten guidelines with implementation tips to improve employees' financial fitness

Workplace Financial Fitness Toolkit



Follow Us



The Employer Checklist

Ten key steps to financial fitness, divided into three stages and designed to help employees meet their financial goals.

LEARN MORE 🕨

The success of employee benefit programs depends on employee participation rates! Nearly four in five employees claim they would benefit from financial advice and answers to everyday questions. Improve employee participation rates, employee welfare and your company's bottom line by using our customizable employer and employee financial fitness toolkits.



THE BASICS

Automatic Enrollment Participation soars when employees are automatically enrolled.

MORE

Automatic Escalation

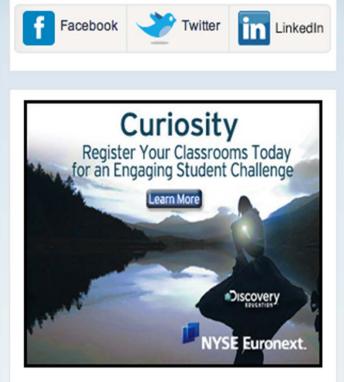
Scheduled increases make the most of automatic enrollment.

MORE

Lifecycle Asset Allocation

Give employees the chance to grow their retirement savings.

MORE



Did You Know?



Bells were introduced on the NYSE when continuous trading was instituted in the 1870s. Originally a Chinese Gong was

used, but brass bells have been used since the Exchange moved to its current location in 1903. Visit our history page to learn more fascinating facts. MORE



INTERMEDIATE



Employee Toolkit Increase participation rates by empowering employees to customize programs. MORE



Direct Deposit Increase safety and lower administrative costs at the same time. MORE



Financial Planning and Tax Preparation Employee satisfaction is as a competitive advantage. Create a culture of caring for employees. MORE



Credit Scores Improved employee credit scores have direct and indirect benefits to employers. MORE

ADVANCED

Debt Management

Help with debt management can prevent an employee's loss of focus and performace.

Health and Financial Fitness Assessment

Data enables employers to design an evidencebased benefit plan.

MORE

Financial Planning Seminars

Educate your employees about the customized financial plans available to them.



MORE

Evaluating workplace education in six big firms



Building long-term financial security

Best practices

How employers can help new hires save for retirement: Best practices that build long-term financial security



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School of Business

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How Employers Can Help New Hires Save for Retirement: Best Practices that Build Long-Term Financial Security

Top Ten Best Practices

Not all employer-sponsored defined contribution retirement savings plans are created equal—some employer practices and plan designs are more successful than others in helping new hires accumulate a robust retirement nest egg. We reviewed numerous studies conducted by researchers affiliated with the Financial Literacy Center, and have identified ten powerful—and often relatively easy—ways to increase financial literacy among newly hired employees, enhance their ability and willingness to participate in and contribute to retirement plan accounts, and improve their overall financial well-being. The guidance offered in this report is based on information derived from studies of real people in real situations and examination of how their behavior is affected by workplace policies and practices.¹

Equip new employees with basic retirement plan information. When new employees understand the fundamentals of their employer-sponsored retirement plan, they are more likely to participate in and contribute to the plan. As such, the information that employers provide to employees is critically important. Studies tell us that many people, when surveyed, are unable to identify the type of retirement plan they have, raising concerns that individuals in the workforce don't know the fundamentals regarding retirement plan options. When offering plan information to employees, for example when they are first hired, start with the basics. Make sure employees understand their plan and plan offerings:

What type of plan is this?

How does it work?

What features (such as matches, ability to borrow, ability to roll prior employer or IRA plans into the account, etc.) and investment choices does it offer? We prepared a report documenting best practices for improving financial decision making in the workplace.

- Based on studies of many employerprovided financial education programs
- Goal of the report is to help employers improve retirement saving choices of newly hired workers

A program for the young

Five steps to planning success

We designed a program for young workers

They are the ones with low literacy

Used new method of communication

A video

Kept the message free of economic/finance jargon

Very important for women

Covered concepts, such as interest compounding and risk diversification, in a simple story

Short video about interest compounding



Link to video http://www.gflec.org/#!education-videos/c24ta

Short video about risk

Risk diversification = don't put all your eggs in one basket



Link to Video http://www.gflec.org/#!education-videos/c24ta

We measured whether it worked

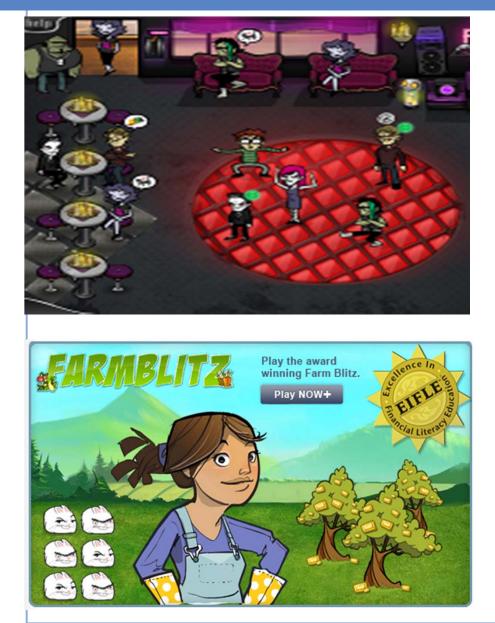
- Tested interventions using an Internet panel
- Baseline questions on 5 concepts
- Randomly assigned
 - Intervention group
 - Video only, narrative only, video & narrative
 - Control group
 - No intervention
- Repeated 5 concepts questions

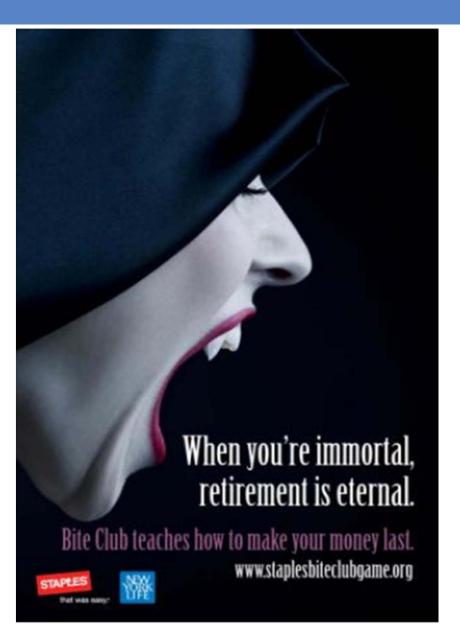
Findings

After being exposed to videos, the performance on financial literacy questions (general knowledge and hypothetical choices) improved

While young were targeted, the videos affected all age groups

Thinking outside the box: Financial literacy games





Thinking outside the box: A saving museum



An International Federation of Finance Museums: Four founders – now extended to many museums







MUSEO DEL RISPARMIO

MUSEUM OF AMERICAN FINANCE

Concluding remarks

Shifting paradigm

- Equipping people to make saving and retirement decisions
 - Financial literacy is an essential skill for the 21st century

Need to start early

 The importance of financial literacy in school. These are not separate topics. Pension providers should speak to Department of Education

Need targeted approach

Workers are vey different

Cannot focus on retirement savings only

Other decisions are important and affect retirement security

Contact and sources of information

Annamaria Lusardi Global Financial Literacy Excellence Center (GFLEC) E-mail: <u>alusardi@gwu.edu</u> Web page: <u>http://www.gflec.org/</u> Blog: <u>http://annalusardi.blogspot.com/</u> Twitter: <u>@A_Lusardi</u> Facebook: <u>https://www.facebook.com/gflec</u>

FinLit Talks: <u>http://www.gflec.org/</u> Financial Literacy Seminar Series:<u>http://www.gflec.org/</u>

