

### Five Steps to Planning Success

### Developing and Testing New Strategies for Reaching Young Adults

Arie Kapteyn
Annamaria Lusardi
Lewis Glinert
Aileen Heinberg
Angela Hung
Anya (Savikhin) Samak
Joanne Yoong

June, 2012

## Core Content for Intervention: Five Key Concepts for Planning Success



Harness the <u>power of interest</u> compounding



Account for the effects of inflation



Diversify investment portfolio



Take advantage of tax-favored assets



If have a 401(k) plan, take advantage of any employer matches

### **Elements of the Delivery Model for 5 Steps**

Goal is to overcome the mix of disinterest, anxiety, and non-comprehension associated with financial issues

Personal narratives with age-appropriate role models

 Vicarious experience (behavioral modeling) has been shown to increase self-efficacy, create cognitive involvement, and generate a desire to change course

Emphasize *teachable moments* where possible

 Focus on specific events : marriage, inheritance, new job

Experiment with mode delivery

Online video vs. narrative

Experiment with visual support: interactive visual tools and visual brochures

- Finvis 1.0 value proven in laboratory experiments; developed new stand-alone module
- Static brochure with same visuals as comparison treatment

## **Evaluation Process for Five Steps Qualitative Research + Online Experiment**

Focus Group with Young Workers

Baseline Survey With Quiz

Randomized intervention

Randomized efficacy following presentation of each step

Long-term follow up survey of knowledge and self-efficacy following presentation of each step

- Year 1: Videos and narratives for all 5 steps. Long-term follow-up survey in progress.
- Year 2: Deeper investigation: new videos and narratives for risk diversification and inflation; new visual analytic tool and static brochure for risk diversification. Randomized intervention in progress.

### The RAND American Life Panel

### **Population**

A nationally representative Internet panel of about 5000 respondents.

Not recruited via Internet

## Research environment

Internet mode offers visualization, experiments etc

Many hours
worth of
background
information (e.g.
HRS, cognitive
tests)

### **Timeliness**

Approximately two surveys/ experiments per month (about 250 since 2006)

Rapid turnaround

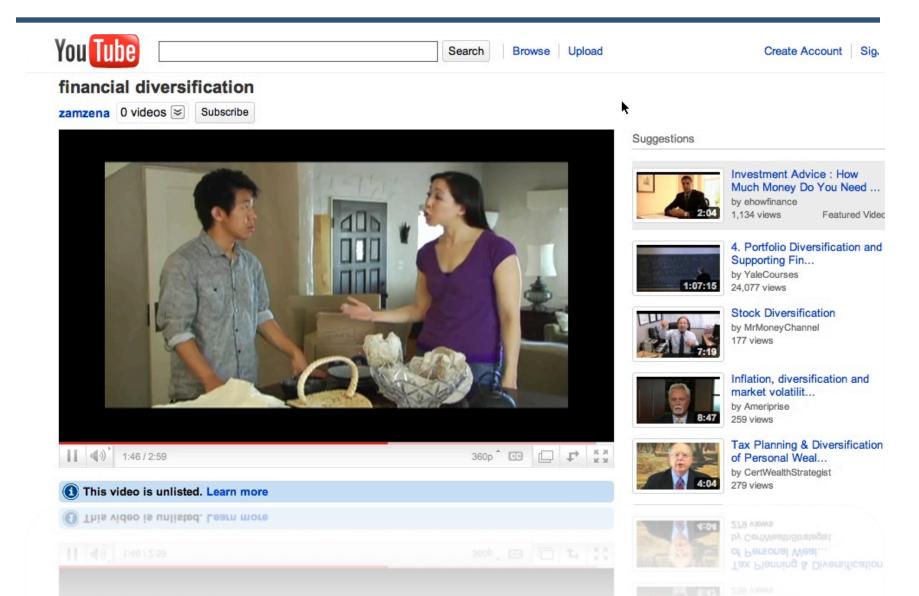
## Access and Usability

Data available for download for free

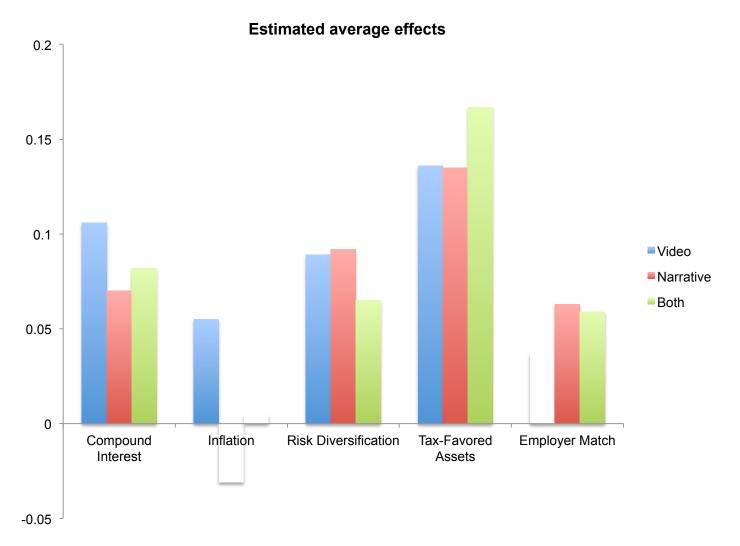
Custom interface allows ability to combine waves, get data in analysis-ready format

## Year 1: Conceptualization and Pilot Test Videos and Narratives

### **Year 1 Video Sample**



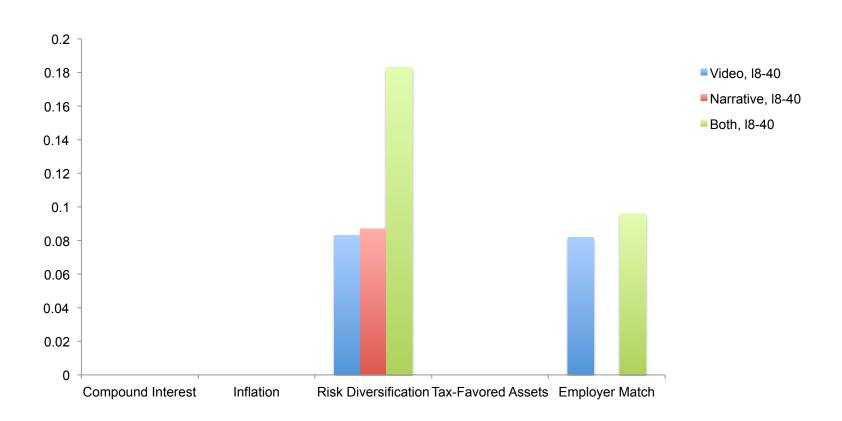
# Five Steps Increased Knowledge But Format Differences Were Inconsistent



Normalized effect sizes. Only statistically significant effects shown. Controls included.

### ...But Has More Impact on the Young

#### Incremental effects compared to baseline group (40-65)



Normalized effect sizes. Only statistically significant effects shown. No significant incremental effects found for ages 65+. Controls included.

# Year 2: Development and Expansion Videos, Narratives, and FinVis Tools

### **Year 2 Developments**

- Based on results from Year 1, focused on concepts of risk and inflation
  - Inflation
    - > Revised video script to increase relevance
  - o Risk
    - Linguistics expert updated and simplified selected scripts and narratives
    - Added FinVis visualization tool
- Used focus groups to gather qualitative feedback on proposed new enhancements

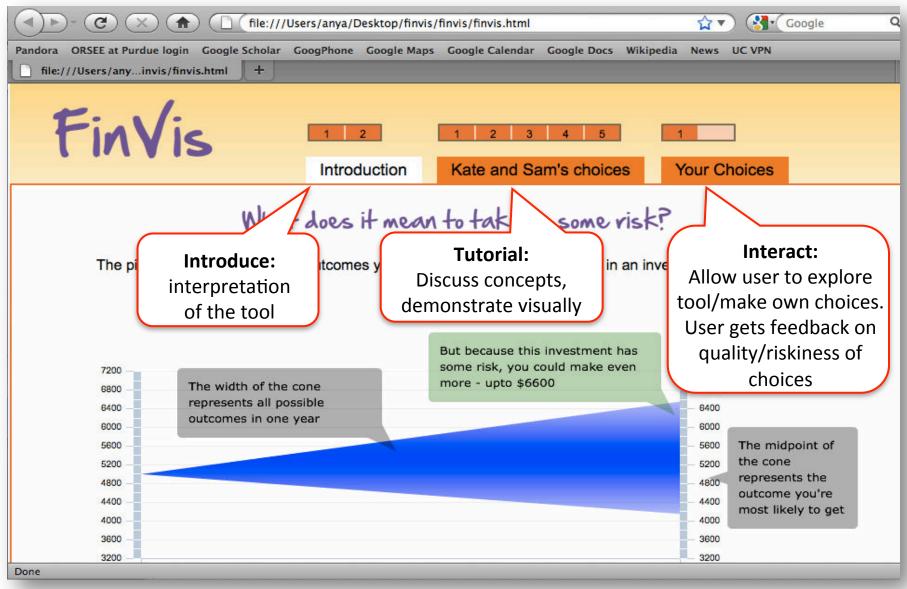
### **Background**

- Financial planning -> overload of information
- Visualization: research shows use of computer supported representation of data amplifies cognition
  - Increases cognitive resources and expands working memory
  - Reduces search effort and time costs represents large amount of data in small space
  - Enhances recognition of trends
  - Encourages exploration of the decision space
  - Increases confidence

### Goals of FinVis

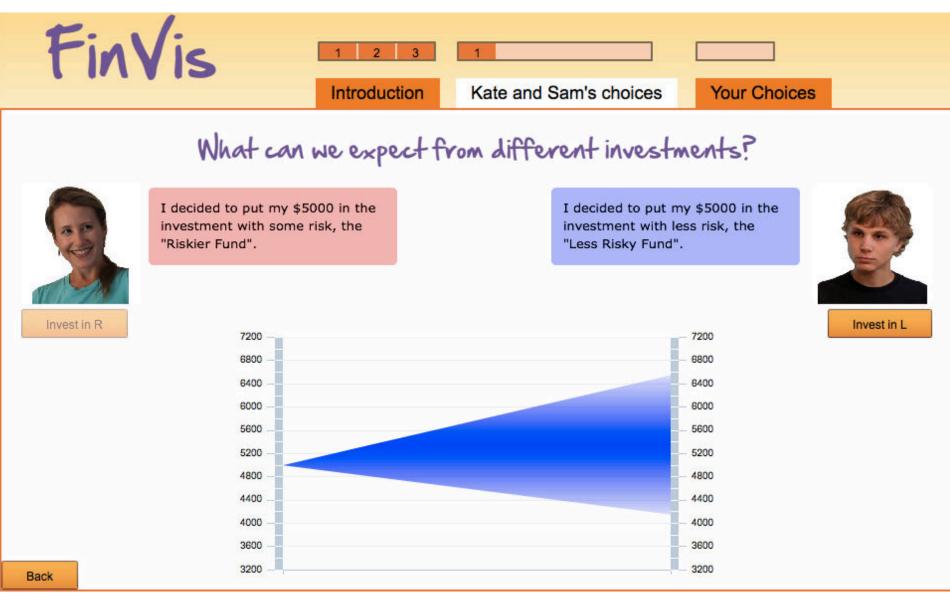
- Help the user understand risk profiles of different types of stocks
- Help the user understand the impact of different rates of return, different standard deviations and correlations of assets
- Help the user learn about why it is important to diversify across stocks
- Help the user learn about why it is important to diversify across asset classes
- Lab Experiment: FinVis 1.0 improves data exploration and confidence

### Self-contained educational module

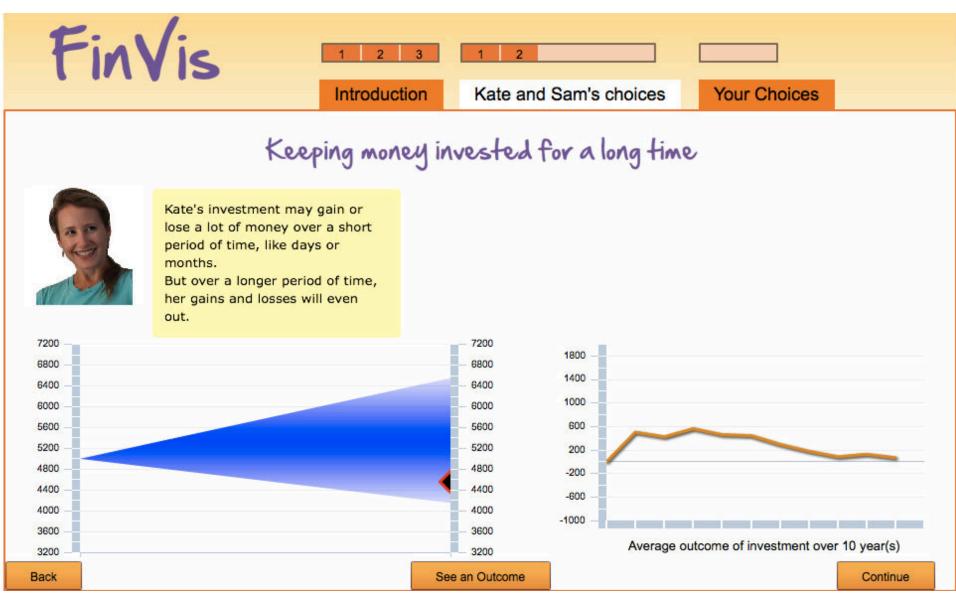


http://home.uchicago.edu/~savikhin/finvis/finvis.html

### FinVis Tutorial – visualizing risk

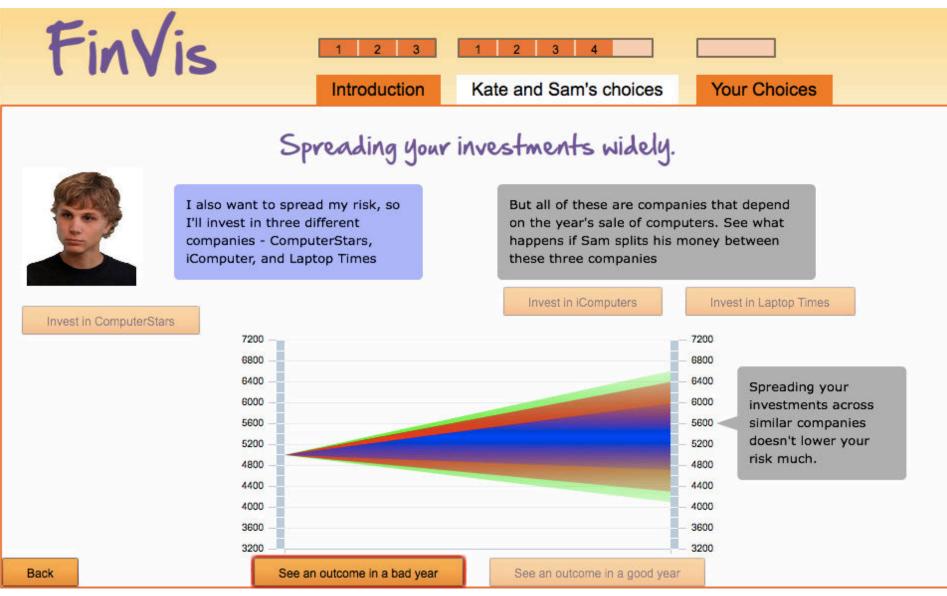


### FinVis Tutorial – Expected return

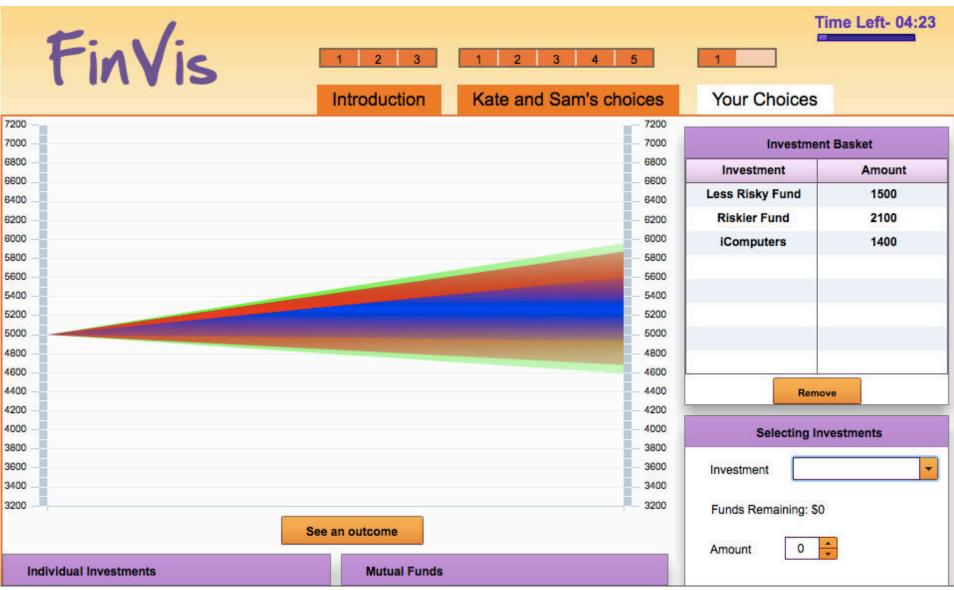


http://home.uchicago.edu/~savikhin/finvis/finvis.html

### FinVis Tutorial - Diversification



### **FinVis: Interactive Component**



http://home.uchicago.edu/~savikhin/finvis/finvis.html

### FinVis: Outcome Screen

### How did you invest?

->Good job - you spread your money out across different investments and minimized your risk.

->You took on quite a bit of risk – with this total investment, in one year you can expect your \$5,000 to turn into \$5276, but you could also end up with \$4591 or \$5960. Think about taking on risk: is this amount of risk too much, too little, or just right for you? Remember, investments with the highest expected return often have the lowest risk.

->Good job - you invested some of your money in funds. Investing in funds gave you the opportunity to spread your money more widely.

Investment	Amount
Less Risky Fund	1500
Riskier Fund	2100
iComputers	1400

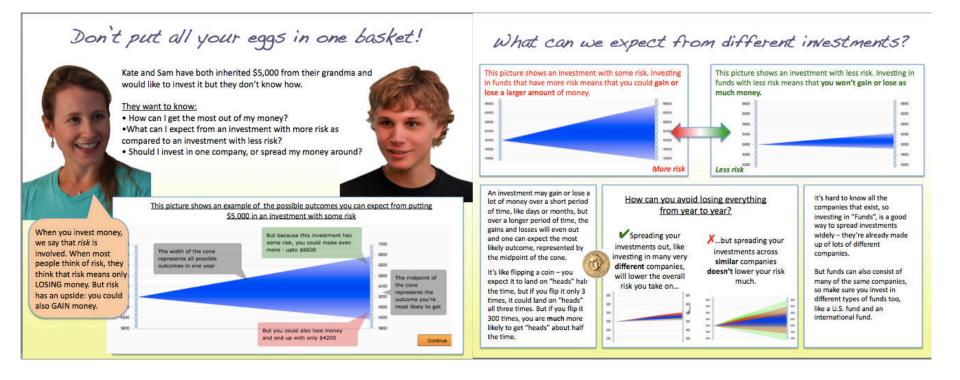
Back

Try again

Done

### **Brochure**

 Designed to be simple and stationary but contain all information of the tool



### **Evaluation in Progress**

- Year 2 ALP intervention survey in progress
  - ✓ Evaluate improvements to videos/narratives
  - ✓ Learn the effect of new interactive visual tools and their static counterparts
    - √ Financial Literacy Questions
    - ✓ Confidence and Self-Efficacy
    - ✓ Tool-generated user input data
- Practical application
  - All interventions scale easily at low-cost

### **Future Work**

- Develop and refine new videos and interactive visual components for all concepts
  - E.g., interest compounding & credit card debt
- Develop and evaluate for different subgroups
  - For use by older adults
  - For use in financial literacy education
- Refine prototypes for Five Steps into a rollout-ready package for partners
- Analyze behavior change over long horizon