

# Retirement Income: Research in Practice

### Designing an income solution



- What do "not running out of money" or "safe income" mean?
  - Annuitize everything?
  - Why do managed payout funds not satisfy?
  - Dybvig [1995]: "Dusenberry's Racheting of Consumption: Optimal Dynamic Consumption and Investment Given Intolerance for any Decline in Standard of Living"
- Use of lifetime income guarantee
  - Scott, Watson, Hu [2010]: "What Makes a Better Annuity?"
  - Hu and Scott [2007]: "Behavioral Obstacles in the Annuity Market"
  - Scott [2008]: "The Longevity Annuity: An Annuity for Everyone?"

Insure late-life spending

- Desire for liquidity
- Desire for potential upside
- Desire for bequest

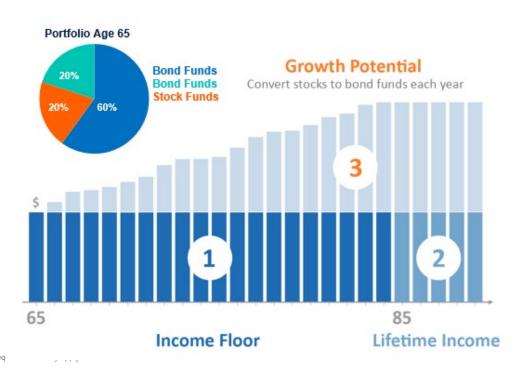
All validated with participant research

# Income+ design led by research



#### Managing for income

- Protect from market, rate changes
- Potential growth opportunity
- Flexible cash flows
- Payouts for life<sup>1</sup>



For illustrative purposes only

<sup>&</sup>lt;sup>1</sup>Lifetime income guarantee requires out-of-plan annuity purchase. Issuer minimum req

## **Social Security**



#### When to claim?

- Shoven & Slavov [2012]: "The Decision to Delay Social Security Benefits: Theory and Evidence"
- No simple rule of thumb; most households leaving a lot on the table
- BBA 2015 rule changes

### Proprietary Social Security optimization engine

- Personalized recommendations for claiming strategies
- Singles, couples with different ages & earned benefits
- Explicitly model longevity uncertainty
- Report improvement in expected lifetime benefits

### What's next?



- What decisions do people need the most help with?
- What are the biggest mistakes retirees make?

### Frontier research (1)



#### Pension distribution choice

 Bronshtein, Scott, Shoven, Slavov [2016]: "Leaving Big Money on the Table: Arbitrage Opportunities in Delaying Social Security"

#### Is optimal retirement spending flat?

- Hurd and Rohwedder [2011]: "Economic Preparation for Retirement"
- Ebrahimi [2019]: "Spending Patterns of Older Households" and "How Do Retirees' Spending Patterns Change Over Time?"
- Scott, Shoven, Slavov, Watson [in progress]: "Can Low Retirement Saving be Rationalized?"

### Optimal portfolios for taxable and tax-advantaged accounts

#### Tax-efficient drawdowns

- Sumutka, Sumutka, Coopersmith [2012]: "Tax-Efficient Retirement Withdrawal Planning Using a Comprehensive Tax Model"
- Cook, Meyer, Reichenstein [2015]: "Tax-Efficient Withdrawal Strategies"

# Frontier research (2)



### Optimal long-term care planning

- Brown and Finkelstein [2007]: "Why is the Market for Long-Term Care Insurance So Small?"
- Davidoff [2008]: "Illiquid Housing as Self-Insurance: The Case of Long-Term Care"
- Zhou-Richter, Browne, Grundl [2010]: "Don't They Care? Or, Are They Just Unaware? Risk Perception and the Demand for Long-Term Care Insurance"
- Koijen, Van Nieuwerburgh, Yogo [2016]: "Health and Mortality Delta: Assessing the Welfare Cost of Household Insurance Choice"
- Ameriks, Briggs, Caplin, Shapiro, Tonetti [2018]: "The Long-Term-Care Insurance Puzzle: Modeling and Measurement"