

## Government Provided Systems under Pressure

76 million baby boomers in U.S. starting to retire

Americans over the age of 65 expected to reach 88.5 million by 2050



Ratio of covered workers to Social Security beneficiaries to fall from three workers per beneficiary in 2011 to two in 2030



9.1% average annual equity returns for past decade (2004–2013)

Estimated annual equity returns for the next decade: 7.3%1

<sup>1</sup>BNY Mellon Capital Market Return Assumptions 2014

4.9%

# Sub-Optimal Access, Low Participation in Employer Sponsored Plans

311.6 million<sup>1</sup> U.S. Population

Employed workers 145.3 million<sup>2</sup>

65% of U.S. workers have access to a work-sponsored retirement plan

48% of workers with access to a plan actually participate

**Retirement Plan Participation:** 

**7%** Workers with DB plan

24% Workers with both DB and DC plan

69% Workers with DC plan

<sup>1</sup>U.S. Census Bureau, July 2011 <sup>2</sup>Bureau of Labor Statistics, February 2014

## Adequacy: The Retirement Income Challenge

### **How Much is Enough?**

If you're 65 today, the probability of living to 85

41% Men

**54%** Women

**73%** Couples (at least one lives to 85)

**Current 30-year-old needs** 

**\$1.1 million** to retire comfortably by 2049

2014 salary contribution to do so: 5% a year (starting at age 25)

Yet, average contribution rates are only 3% annually<sup>1</sup>

### **Americans are Saving Less**

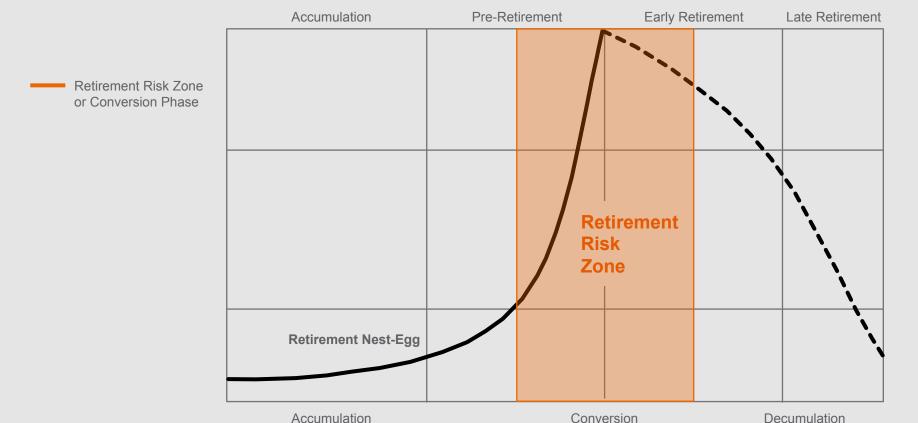
8.3% Average personal savings rate since 1960

4.5% Personal savings rate for 2013¹ (excluding employer-sponsored plans)



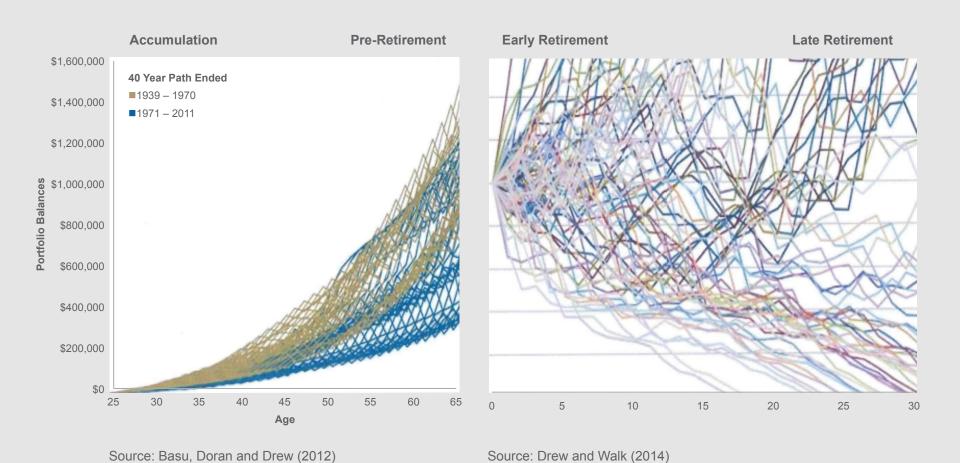
<sup>1</sup>J.P. Morgan Guide to Retirement

## The DC Theory Room



Source: Drew and Walk (2014)

### The DC Practice Room



## Factors Affecting Retirement Income for DC Plans

Contribution Rate



Contribution Period



Structure **Payout Phase** 

Time in Retirement









#### **Depends on:**

- Choice variables (Contribution rate)
- Risk variables (Labor market risk)

#### **Depends on:**

- Choice variables (Retirement age, time joining labor market)
- Risk variables (Labor market risk)

#### **Depends on:**

- Choice variables (Investment strategy)
- Risk variables (Financial risk)

#### Depends on:

- Choice variables (Retirement age)
- Risk variables (Longevity risk)

#### **Depends on:**

- Choice variables (Annuities, phased withdrawals, combinations)
- Risk variables (Longevity and financial risk)











Retirement Income

Source: OECD, Dr. Pablo Antolin



## Important Disclosures

Equity funds are subject generally to market, market sector, market liquidity, issuer and investment style risks, among other factors, to varying degrees, all of which are more fully described in the fund's prospectus.

Investing internationally involves special risks, including changes in currency exchange rates, political, economic and social instability, a lack of comprehensive company information, differing auditing and legal standards and less market liquidity. These risks may be greater among the emerging markets, which tend to be more volatile than the markets of more mature economies, and generally have less diverse and less mature economic structures and less stable political systems than those of developed countries.

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The fund's performance will be influenced by political, social and economic factors affecting investments in foreign companies. Special risks associated with investments in foreign companies include exposure to currency fluctuations, less liquidity, less developed or less efficient trading markets, lack of comprehensive company information, political instability and differing auditing and legal standards.

Emerging markets tend to be more volatile than the markets of more mature economies, and generally have less diverse and less mature economic structures and less stable political systems than those of developed countries.

The use of derivative instruments, such as options, futures and options on futures, forward contracts, swaps, options on swaps, and other credit derivatives, involves risks different from, or possibly greater than, the risks associated with investing directly in the underlying assets. A small investment in derivatives could have a potentially large impact on the fund's performance.

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