



# Welcome and Opening Remarks

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Federal Reserve Bank of Boston's 62<sup>nd</sup> Economic Conference  
"What Are the Consequences of Long Spells of Low Interest Rates?"  
Boston, Massachusetts

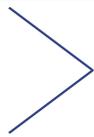
[bostonfed.org](http://bostonfed.org)



## Why Focus on the Consequences of Long Spells of Low Interest Rates?

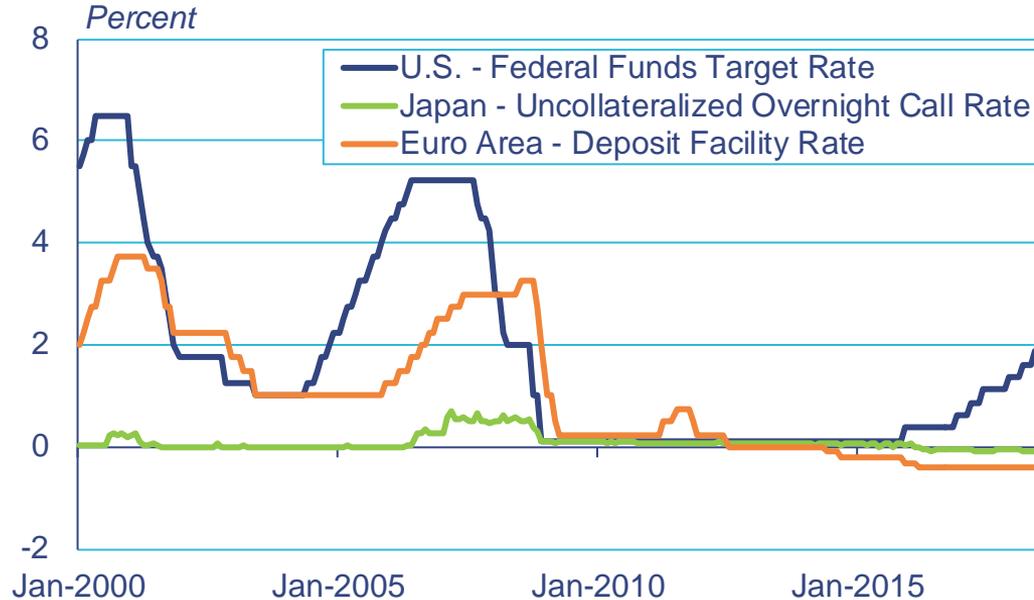
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- ▶ The likelihood of rates being low for long has increased
    - ▶ Low rates are a global phenomenon
    - ▶ We see low productivity growth, low inflation, and low population growth in many developed countries
  - ▶ The recent extended period of low rates makes it important to be evaluating potential costs
  - ▶ The potential costs of low rates could impact how policy should prepare for, and react to, a recession
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# Figure 1: Overnight/Policy Rates for the Euro Area, Japan, and the U.S.

January 2000 - August 2018



Note: Rates are as of end of period. U.S. target rate is the midpoint of the target range, beginning in December 2008.

Source: Bank of Japan, European Central Bank, Federal Reserve Board, Haver Analytics



## “Reach for Yield”

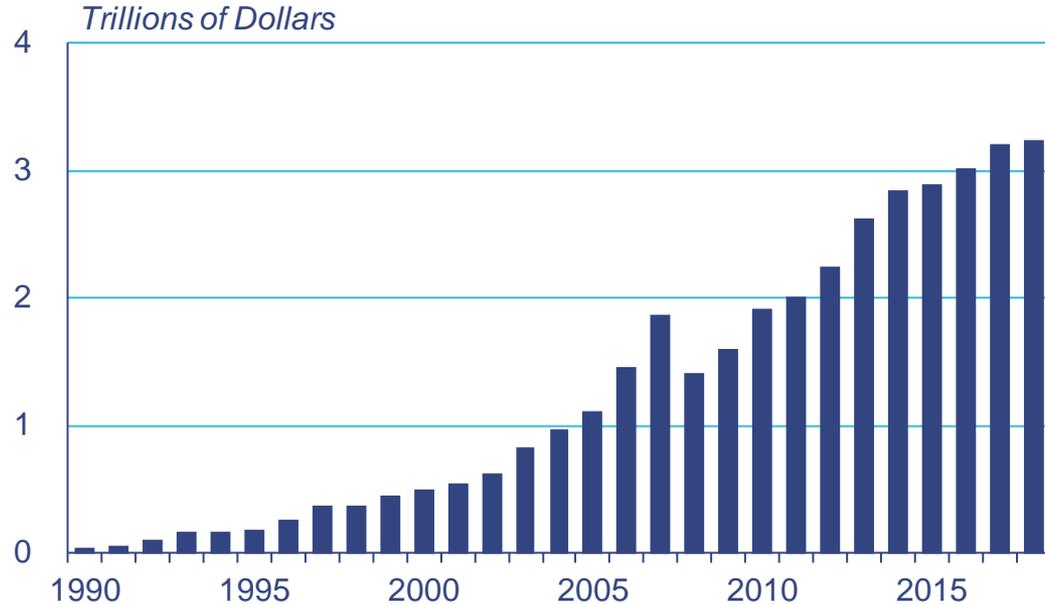
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- ▶ The prevalence and cost of potential “reach for yield” behavior may be important:
  - ▶ Do households alter savings, spending, and investing decisions in a low rate environment?
  - ▶ Do firms behave differently in a low interest rate environment?
  - ▶ Do regulated firms face different incentives in a low interest rate environment?



## Figure 2: Estimated Global Hedge Fund Industry Assets Under Management

1990 - 2018:Q2

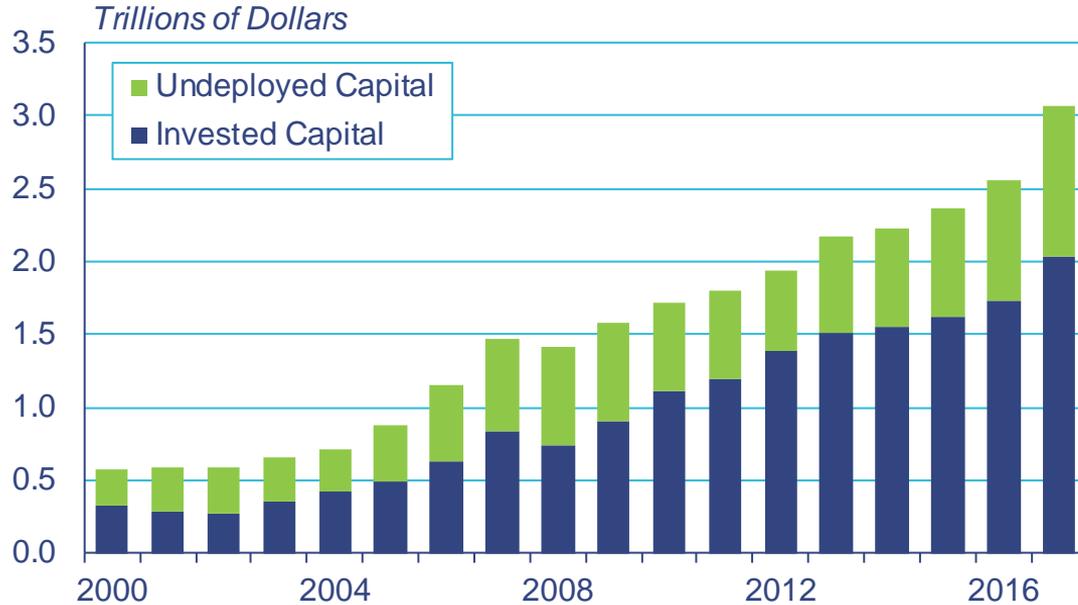


Note: Data are as of December 31 for 1990 - 2017 and as of June 30 for 2018:Q2.

Source: Hedge Fund Research, Inc. – [www.HedgeFundResearch.com](http://www.HedgeFundResearch.com)



# Figure 3: Global Private Equity Assets Under Management 2000 - 2017



Note: Private equity refers to the core asset class centered on the buyout and venture capital industry. Data are as of December 31.  
Source: Preqin



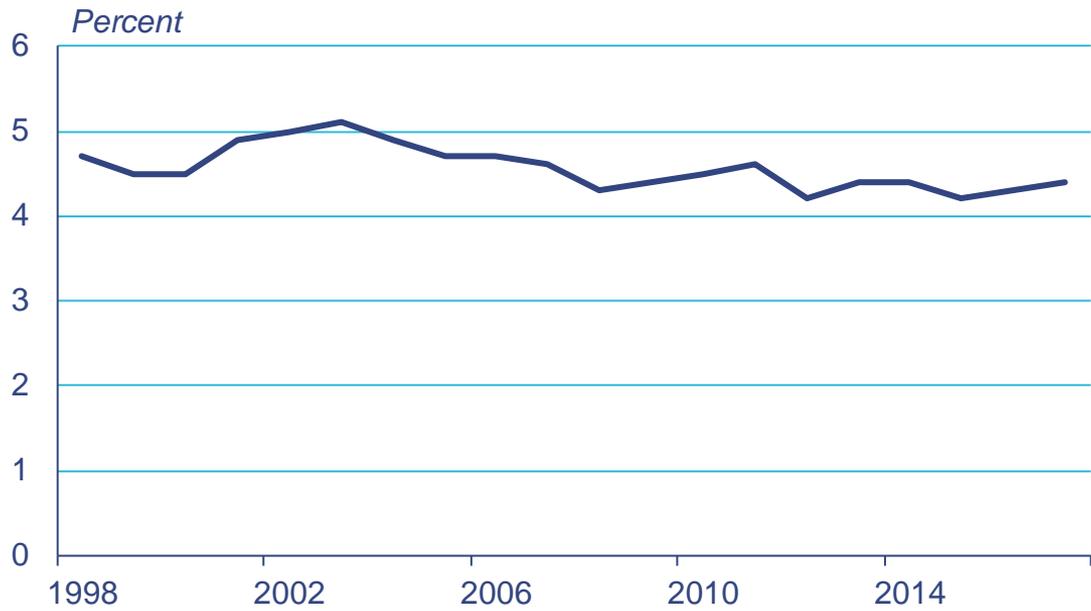
## Growth in Alternative Assets

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- ▶ Alternative asset classes have grown rapidly during the recent period of low rates
  - ▶ “Reach for yield” and institutional constraints may interact to generate more risk for the economy
    - ▶ Example: College endowments
    - ▶ Example: Pension funds
  - ▶ Has growth been due to financial innovation, or rather due to the potential to obtain higher returns through less traditional and riskier asset allocations?
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## Figure 4: Average Annual Effective Spending Rate for U.S. College and University Endowments and Affiliated Foundations 1998 - 2017



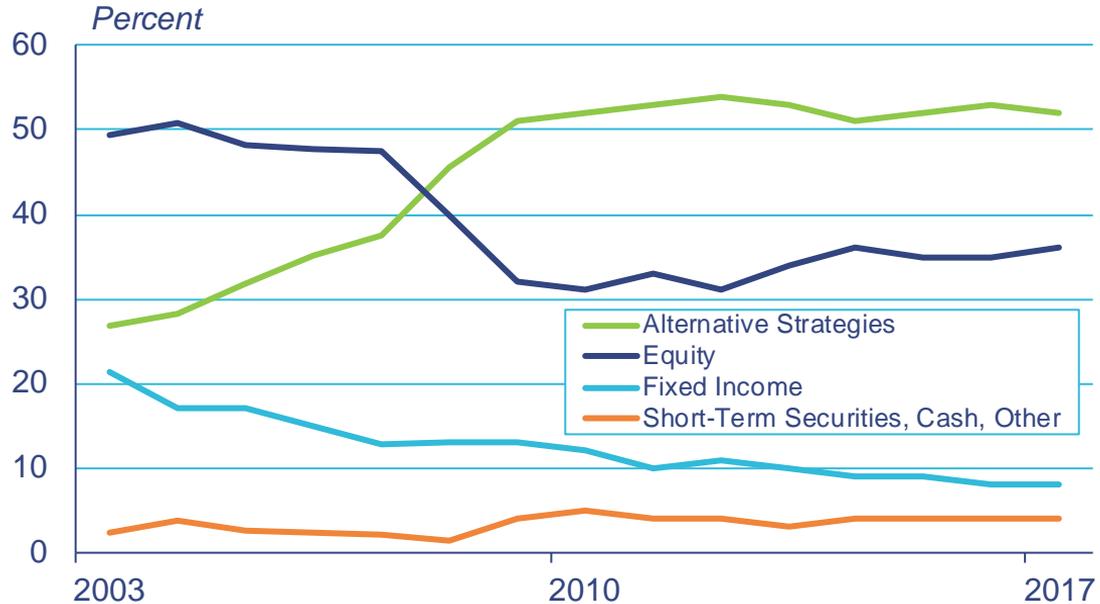
Note: Data are for fiscal years ending June 30.

Source: NACUBO Endowment Study (1998 - 2008), NACUBO-Commonfund Study of Endowments (2009 - 2017)



# Figure 5: Asset Allocation for U.S. College and University Endowments and Affiliated Foundations

2003 - 2017

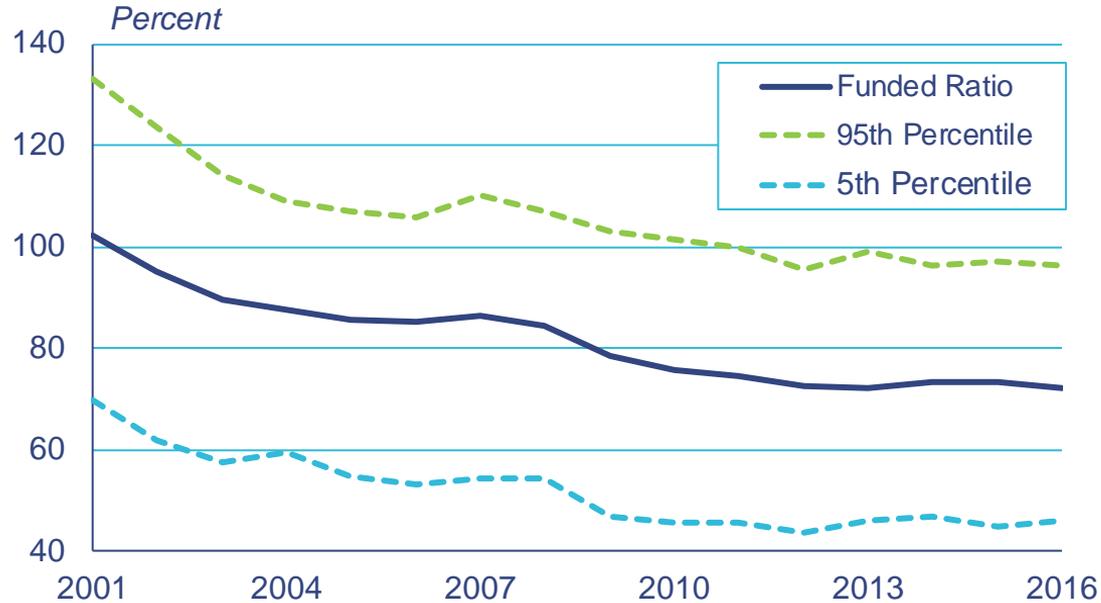


Note: Data are for fiscal years ending June 30. Asset Allocations are dollar-weighted. Alternative strategies include private equity and hedge funds among other investments.

Source: NACUBO Endowment Study (2003 - 2008), NACUBO-Commonfund Study of Endowments (2009 - 2017)

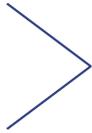


## Figure 6: Ratio of U.S. Public Pension Fund Assets to Projected Liabilities 2001 - 2016

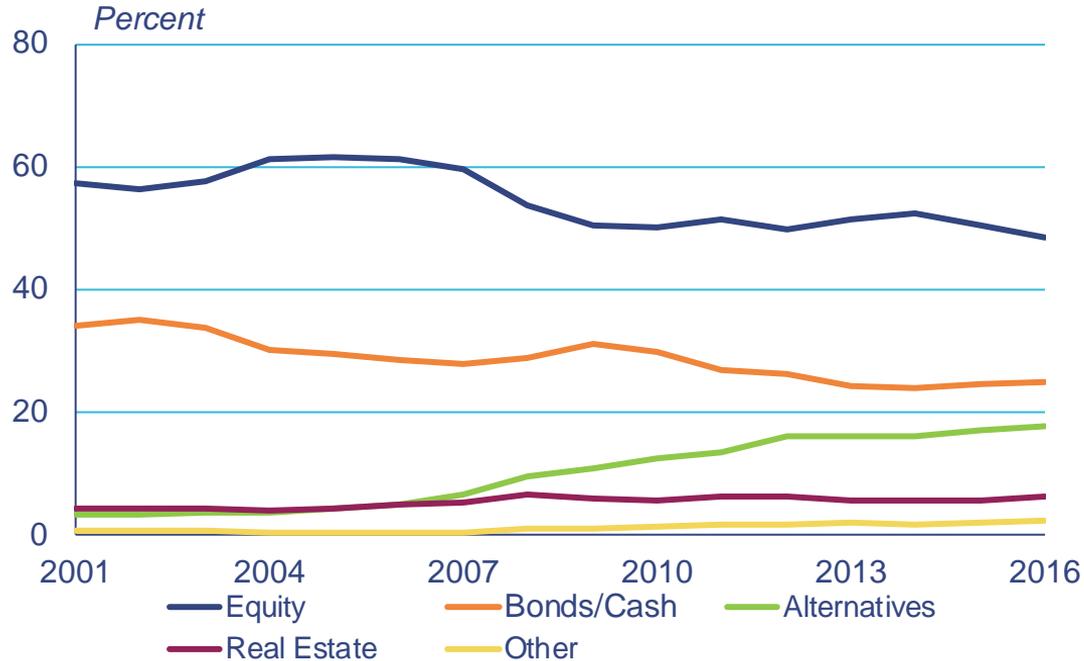


Note: For most public pension funds, the data are for fiscal years ending June 30; some have other fiscal years.

Source: Public Plans Data, 2001-2016. Center for Retirement Research at Boston College, Center for State and Local Government Excellence, and National Association of State Retirement Administrators

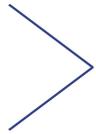


## Figure 7: U.S. Public Pension Fund Portfolio Allocation 2001 - 2016



Note: For most public pension funds, the data are for fiscal years ending June 30; some have other fiscal years. Alternatives include private equity and hedge funds among other investments.

Source: Public Plans Data, 2001-2016. Center for Retirement Research at Boston College, Center for State and Local Government Excellence, and National Association of State Retirement Administrators



## Implications for Micro Risk Management

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- ▶ If institutions take on too much risk, what are the implications for institutions and their stakeholders?
  - ▶ Will there be political pressures to mitigate the costs, if they are realized?
  - ▶ Could risk-taking by households, firms, and regulated institutions manifest itself in financial stability problems?
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## Implications for Macro Risk Management

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- ▶ Should we think differently about monetary policy goals and tools if the costs are large?
    - ▶ If we are likely to hit the effective lower bound frequently
      - ▷ Are inflation goals too low?
      - ▷ Should monetary policy implementation be different?
  - ▶ Do we need additional financial stability tools?
  - ▶ Should fiscal policies – at the national or state level – be different if the costs are great?
  - ▶ Do we have sufficient policy buffers to mitigate the adverse effects of economic downturns?
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