

# **The Endowment Investment Model**

*An Advanced Investment  
Strategy for a New Reality*

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# Traditional Approach

Stocks & Bonds (Often 60% stocks, 40% Bonds)

- ▶ Original Application of Modern Portfolio Theory
- ▶ Old, Tired
  - 2000-2010
  - Latest Meltdown
  - Only 2 Asset Classes
- ▶ Volatile
- ▶ Poor Fixed Income Return Expectations
- ▶ Poor Income Generation



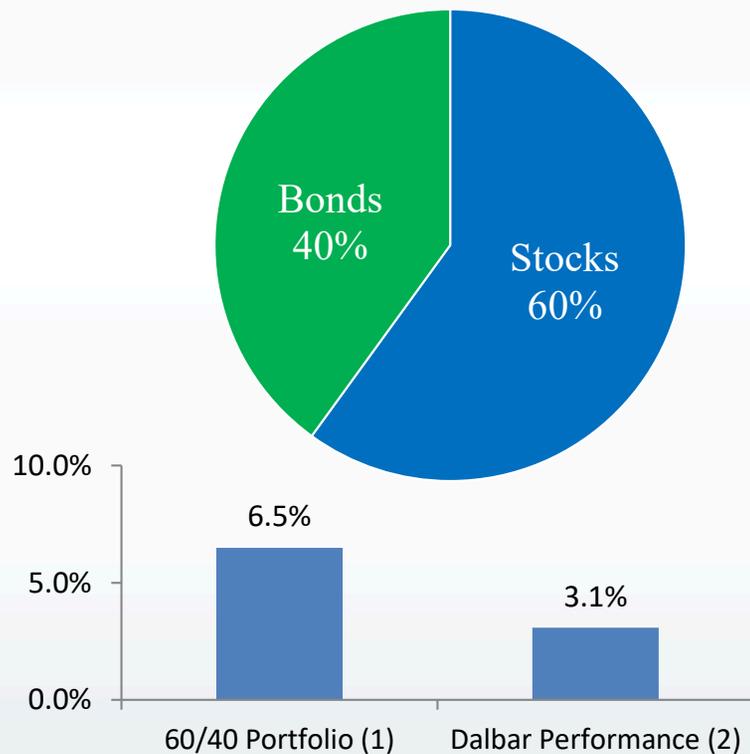
# A Different Approach

- ▶ The Endowment Investing Model
  - Adopted by endowments, institutions, and family wealth offices.
  - Super-Endowments Have Made Strategy Famous (e.g., Yale, Harvard, Stanford)
- ▶ Serious Money Seems to Prefer This Strategy
- ▶ Individuals Appear to Be Moving in this Direction

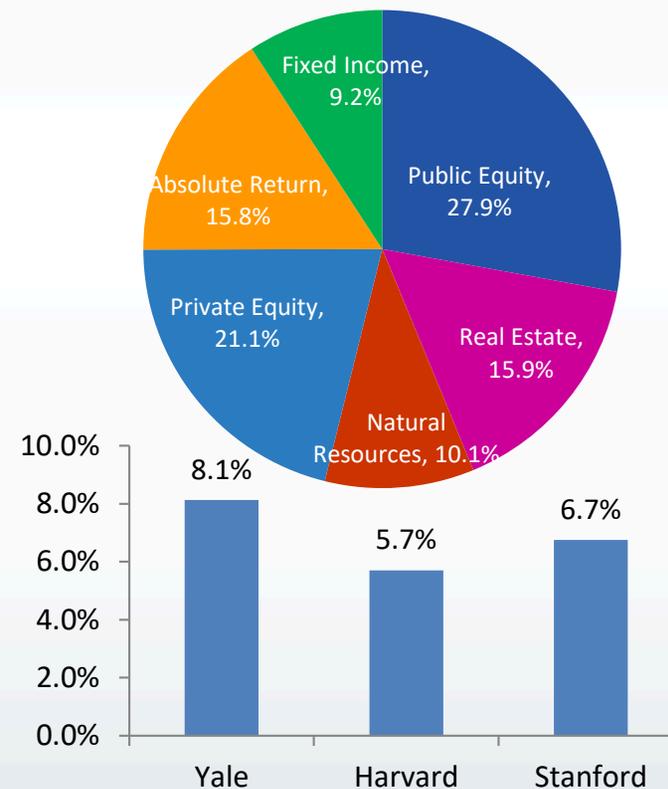
# The Traditional Portfolio vs. The Endowment Model

July 1, 2006 – June 30, 2016

## Traditional Individual Investor Allocation

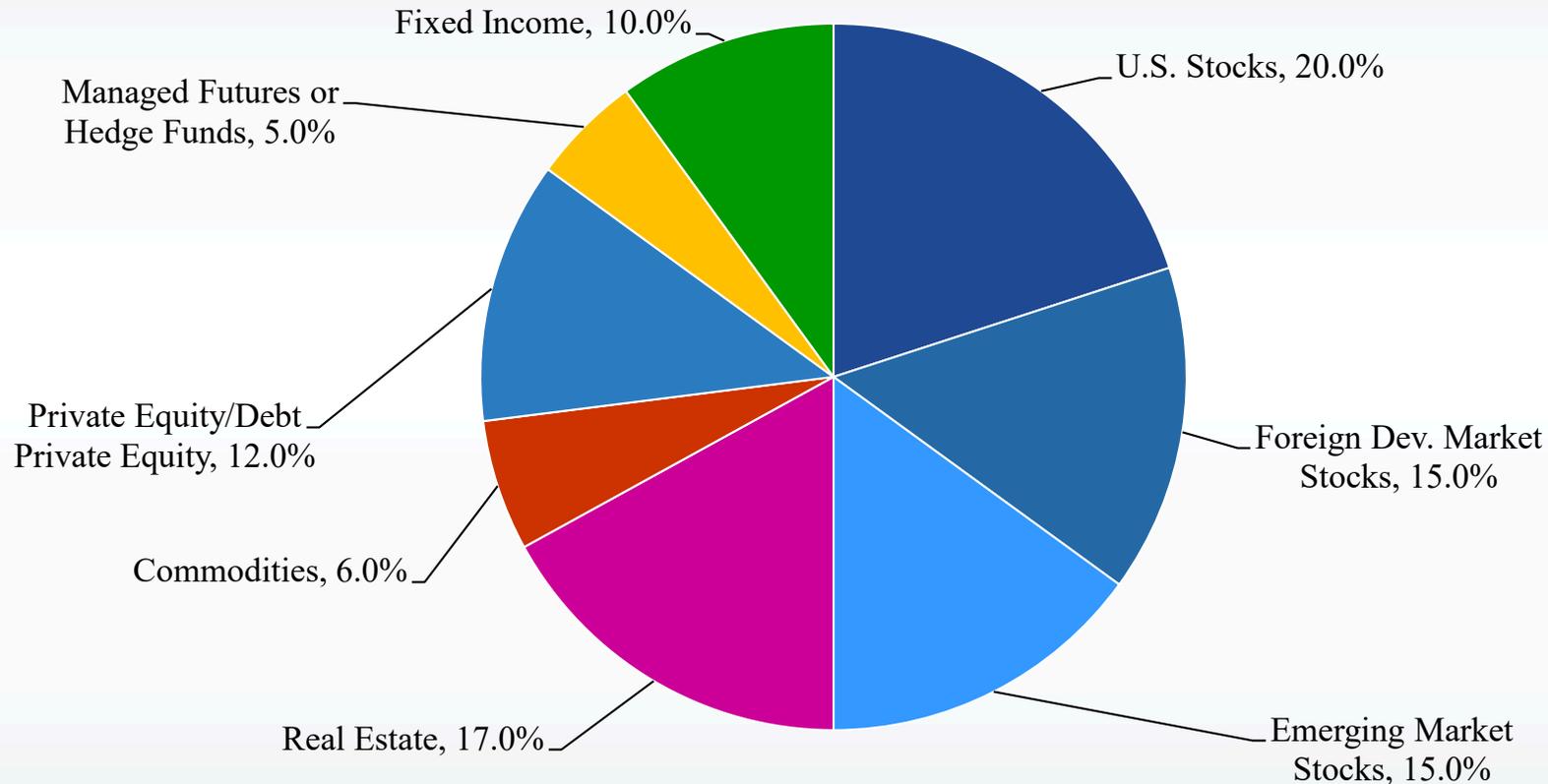


## Average of Yale, Harvard, Stanford 2016 Allocations<sup>3</sup>



Stocks are represented by the S&P 500. Data is from www.msci.com. Bonds represented by Barclays Capital U.S. Aggregate Bond Index. Data supplied by Barclays Capital, Inc. <sup>2</sup>DALBAR, Quantitative Analysis of Investor Behavior (QAIB) 2016 Key Findings from 2016, p. 5 reports that the average equity fund investors underperformed the S&P 500 by 4.83%, 3.31%, and 2.89% for the 5, 10, and 20 year periods respectively. Average fixed income investor underperformed the Barclay's Aggregate Bond Index by 1.16%, 3.57% and 4.48% for the same 5, 10, and 20 periods. <sup>3</sup>The Yale Endowment Report for years 2006-2016, Harvard University Financial Report for years 2006-2016 &, The Stanford Management Company Report for years 2006-2016.

# Potential Individual Investor Portfolio

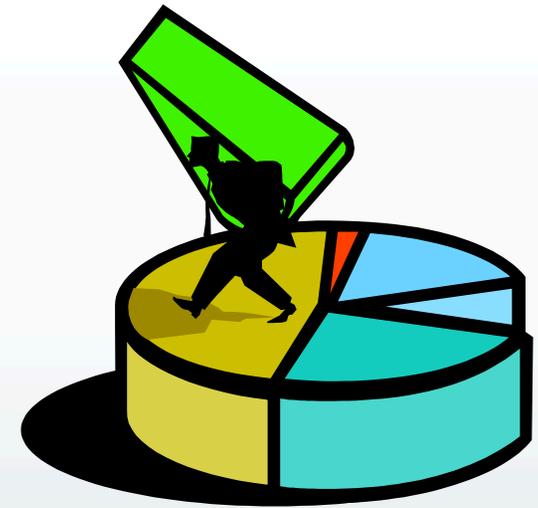


New opportunities and open global markets enable **Individual Investors** to build highly diversified portfolios containing similar asset classes to most endowments.\*\*

\*\*This asset allocation for an individual investor's portfolio is for educational purposes only. Allocations may not be that of the any college endowment including any endowment illustrated in this presentation.

# Key Portfolio Attributes

- ▶ **Alternatives: Low Performance Correlation & Strong Performance Expectations**
  - Real estate, hybrid debt/private equity, private equity, commodities, managed futures and hedge funds. <sup>1</sup>
- ▶ **International Equities** <sup>2</sup>
- ▶ **Inflation Protection** <sup>3</sup>
- ▶ **Illiquidity of Some Assets**
- ▶ **Reduced Fixed Income**
  - Inflation Risk
  - Poor Return Expectations



1. These types of investments may not be suitable for all investors and may be illiquid.
2. Investing in International equities, including emerging markets, may present more risk than U.S. equities and may not be suitable for all investors.
3. Past performance is not indicative of future results.

# Risks and Concerns

- ▶ Tax consequences
- ▶ All investments involve risk and could involve loss.
- ▶ Investments presented may not be suitable for all investors.
- ▶ Investments in foreign markets entail special risks such as currency, political, economic and market risks.
- ▶ Alternative investments may be illiquid.
- ▶ There is no assurance that any investment strategy will meet its objectives.
- ▶ Diversification and asset allocation do not assure better performance and cannot eliminate risk of investment loss.
- ▶ May require larger minimum investment to properly diversify.

# Disclosures

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The information contained in these slides was taken from third-party sources that we believe to be reliable, but cannot guarantee its accuracy or completeness.

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# Disclosures

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# Definitions

The **S&P 500 Index** is a composite of the 500 largest companies in the United States.

The **FTSE NAREIT US Real Estate Index Series** is designed to present investors with a comprehensive family of REIT performance indexes that span the commercial real estate space across the US economy, offering exposure to all investment and property sectors. In addition, the more narrowly focused property sector and sub-sector indexes provide the facility to concentrate commercial real estate exposure in more selected markets.

**MSCI EAFEMSCI EAFE** (Europe, Australasia, and Far East) index is a market-capitalization-weighted index of 21 non-U.S., industrialized country indexes, and is widely accepted as a benchmark for international stock performance. The index is unmanaged and does not represent the performance of any particular investment. You cannot invest directly into the index.

**Barclays Capital U.S. Aggregate** is a broad bond index covering most U.S. traded bonds and some foreign bonds traded in the U.S.

**Standard deviation** is a statistical measurement that sheds light on historical volatility. For example, a volatile stock will have a high standard deviation while the deviation of a stable blue chip stock will be lower. A large dispersion tells us how much the return on the fund is deviating from the expected normal returns.

# Definitions Continued

**Correlation** is a statistical measure of how two securities move in relation to each other. Correlation is computed into what is known as the correlation coefficient, which ranges between -1 and +1. Perfect positive correlation (a correlation coefficient of +1) implies that as one security moves, either up or down, the other security will move in lockstep, in the same direction. Alternatively, perfect negative correlation means that if one security moves in either direction the security that is perfectly negatively correlated will move in the opposite direction. If the correlation is 0, the movements of the securities are said to have no correlation; they are completely random.

**Cross-correlation** is a statistical measure timing the movements and proximity of alignment between two different information sets of a series of information. Cross correlation is generally used when measuring information between two different time series. The range of the data is -1 to 1 such that the closer the cross-correlation value is to 1, the more closely the information sets are.

**Modern Portfolio Theory** is a financial theory on how risk-averse investors can construct portfolios to optimize or maximize expected return based on a given level of market risk, emphasizing that risk is an inherent part of higher reward.