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# Understanding Investment Benchmarks

2024 Fall Trustee School – CEU Program

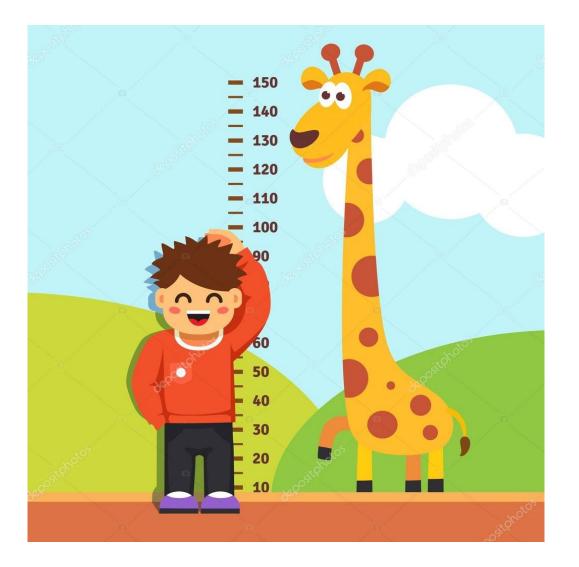


### **Understanding Investment Benchmarks**

- 1. Public perception of benchmarks
- 2. Benchmarking investment managers
- 3. Benchmarking pension funds
- 4. Trustee guidance

## **Public Perception of Benchmarks**

### Benchmark = measuring stick?

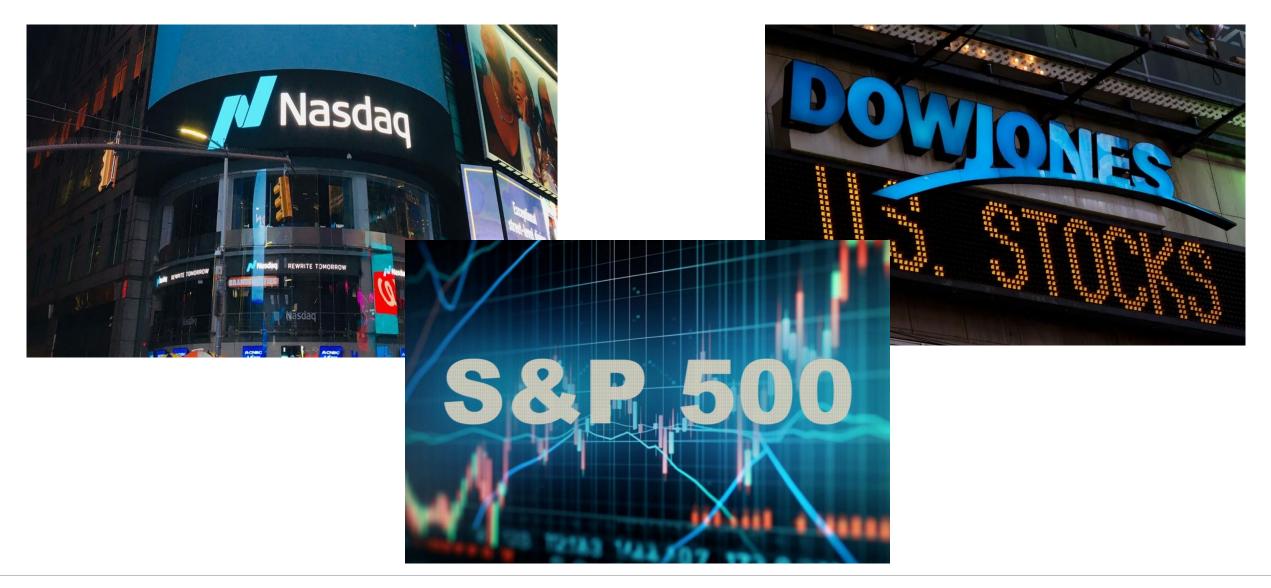


#### Benchmarks help provide context

### **Understanding Investment Benchmarks**

- 1. Public perception of benchmarks
  - –Heard on TV
  - -Benchmark Criteria, Reconstitution
  - -Concentration

### As seen on TV



### **Benchmarking Sets Expectations**



### Silver: Good or Bad?



### It Depends. Context Matters





#### Men's basketball: **16 gold medals**

Men's soccer: 4<sup>th</sup> place = best finish

### **Understanding Differences**

	<b>Dow Jones</b>	S&P 500	NASDAQ
What is it?	A "basket" of 30 US "blue-chip" stocks	An "Index" 500 US Iarge cap stocks	A stock exchange of ~2,500 with mainly tech stock listings
Has the average Joe heard of it?	Yes	Yes	Yes
Is it a common benchmark used within Pensions?	No	Yes	No
Why?	Concentration bias	Easy to understand / relate too	Style bias

### Who decides what is in a benchmark?



### **Benchmark Composition**

Index	Approach	Characteristics
Dow Jones	Qualitative	Stocks "added if company has an excellent reputation, demonstrates sustained growth and is of interest to a large number of investors" – committee based – change infrequent (~2 years)
S&P 500	Rules based	The largest 500 US stocks by market capitalization – committee based final decision – quarterly
NASDAQ	Stock exchange	Must meet listing requirements and typically "go public" via an initial public offering (IPO)

### **Benchmark Concentration**

 Benchmarks can become more/less concentrated over time e.g. Magnificent Seven

Weight of the top 10 stocks in the S&P 500



13

## Benchmarking Investment Managers

### Understanding Investment Benchmarks

- 2. Benchmarking investment managers
  - -Benchmark-agnostic vs. benchmark-hugging
  - -Peer group benchmarks, multiple benchmarks
  - -Changing benchmarks

### **Benchmark Agnostic**

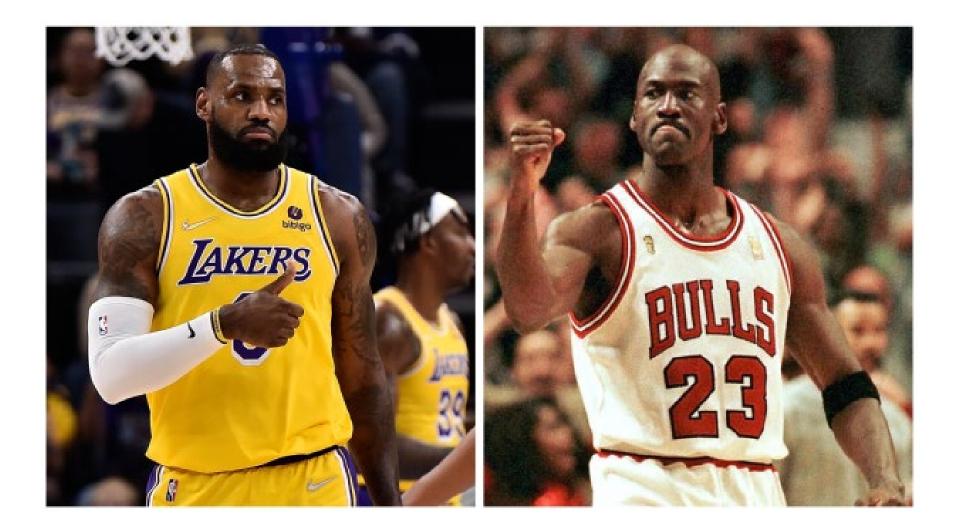
- Invest with little (to no) regard for constraints or guardrails of benchmark holdings.
- Willingness to look different ~ "Go anywhere" approach.



### Benchmark Hugging



### Peer Group Benchmarks



### Why use multiple benchmarks?



- Sometimes one benchmark does not tell the full story
- Multiple benchmarks might be needed
- Sometimes they provide conflicting results
- If you have a good understanding of why, it is fine

### Changing Benchmarks



### What makes a "good" benchmark?

### **Bailey**<sub>1</sub> Benchmark Characteristics:

- Unambiguous clearly identifiable components
- Investible possible to "own" and invest in it
- Measurable on a frequent and timely basis
- Appropriate consistent with a manager's style
- Reflective of current investment options
- Specified in advance constructed in advance

1) Financial Analysts Journal, CFA Institute, 1992

## **Benchmarking Pension Funds**

### **Understanding Investment Benchmarks**

- 3. Benchmarking pension funds
  - -Policy benchmark
  - -Peer group benchmark
  - Understanding the lag for alternatives

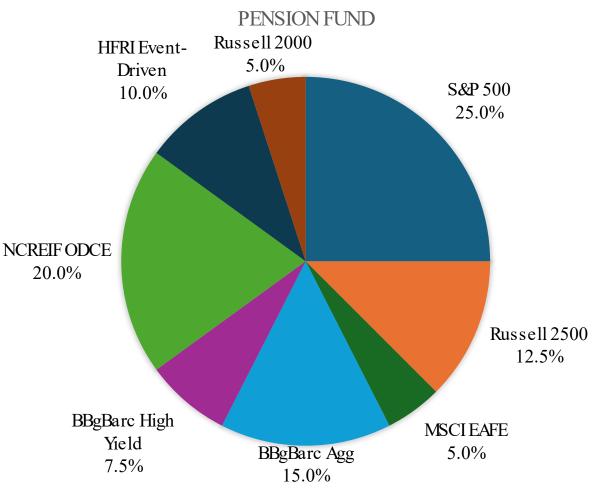
### Policy Benchmark

decisions meeting our			Ending December 31, 2019							
goal?	Market Value %	of Portfolio	2019 Q4	1 Yr	3 Yrs	5 Yrs	7 Yrs	10 Yı		
I Fund	\$961,409,924	100.0%	4.7%	16.9%	9.1%	7.9%	9.6%	9.6		
otal Fund Benchmark			4.8%	17.0%	8.6%	7.5%	8.9%	9.1		
otal Domestic Large Cap Equity	\$226,859,596	23.6%	9.7%	31.9%	15.6%	11.9%	15.2%	13.6		
otal Domestic Small/Mid Cap Equity	\$125,592,040	<b>13.1%</b>	8.0%	24.7%	9.7%	9.5%	13.5%	13.5		
otal International Equity	\$62,256,229	6.5%	9.5%	27.0%	12.5%	8.4%	8.2%	6.2		
otal Investment Grade Fixed Income	\$103,012,795	10.7%	0.3%	6.4%	3.2%	2.6%	2.0%	3.2		
otal High Yield Fixed Income	\$79,458,894	8.3%	2.4%	14.6%	6.4%	6.5%	6.4%	8.0		
otal Real Estate - Core	\$133,456,713	13.9% <mark></mark>	1.4%	5.4%	6.6%	8.4%	9.7%	11.2		
otal Real Estate - Value Add	\$77,459,758	8.1%	3.2%	9.5%	9.6%	11.0%	-			
otal Hedge Fund of Funds - Multi Strategy	\$9,918,951	1.0%								
otal Opportunistic Strategies	\$79,481,967	8.3%								
otal Global Tactical Asset Allocation	\$48,430,983	5.0%	5.1%	20.9%	8.5%	7.4%	8.1%			
otal Private Equity	\$9,532,634	1.0%								
otal Other	\$5,430,242	0.6%					$\checkmark$			
otal Cash Equivalents	\$519,123	0.19	<u>.</u>		_					
			ls ma	anager	<sup>•</sup> selec	tion				
				<b>—</b>	value?					

		Fiscal Year Ends December 31									
	20	19 2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
Total Fund	16.5	9% -1.9%	13.2%	8.6%	3.5%	8.8%	19.4%	11.6%	3.4%	13.8%	16.0%
Total Fund Benchmark	17.0	0% -2.3%	12.1%	8.6%	3.2%	7.2%	17.7%	12.4%	2.9%	14.3%	15.0%

### Total Fund Composite Benchmark

- Should reflect the target asset allocation
- Not all asset classes have benchmarks





Not the only measurement for the success of a Fund

### Peer Plan Comparisons



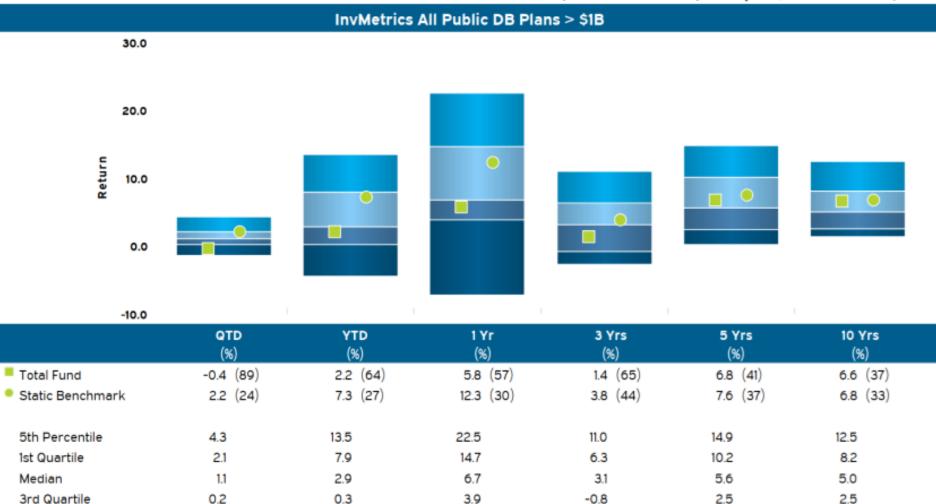
- Comparison against your neighbors
- Judging performance vs. peers
- Pros and cons
- Goal: Pay benefits or outperform peers?

### Performance Relative to Peers

Plan Sponsor Peer Group Analysis | As of June 30, 2024

0.2

1.4



Source: InvMetrics

95th Percentile

-1.3

-4.4

-7.2

-2.7

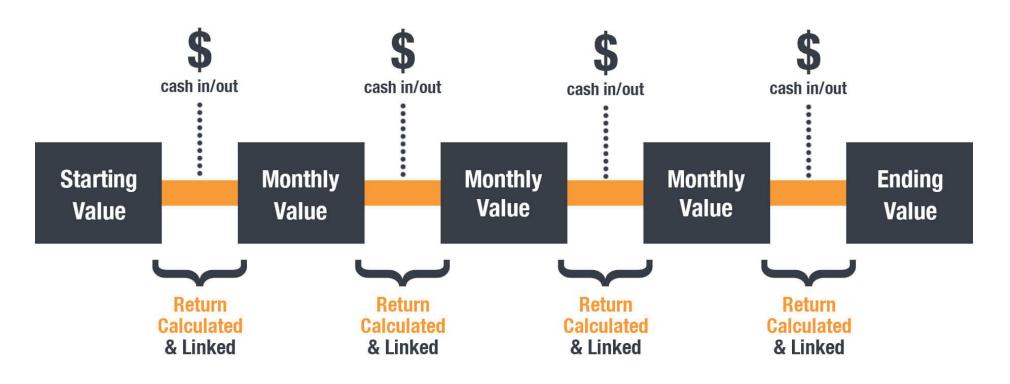
### Understanding the lag for alternatives

			Ending December 31, 2019							
	Market Value	% of Portfolio	2019 Q4	1 Yr	3 Yrs	5 Yrs	7 Yrs	10 Yrs	Inception	Inceptio Dat
Total Opportunistic Strategies	\$79,481,967	8.3%								
Manager N	\$53,269,666	5.5%	0.8%	6.1%	-				5.1%	May-1
HFRI Credit Index			1.7%	6.5%	4.1%	3.9%	4.5%	5.4%	3.0%	May-1
Manager O	\$23,471,757	2.4%								
Manager P	\$2,740,544	0.3%	0.0%						7.9%	Jun-1
Total Global Tactical Asset Allocation	\$48,430,983	5.0%	5.1%	20.9%	8.5%	7.4%	8.1%	-	7.8%	Jul-1
Manager Q	\$48,430,983	5.0%	5.1%	20.9%	8.5%	7.4%	8.1%		7.8%	Jul-1
65% MSCI World Index/35% CitigroupWGBI			5.4%	19.9%	9.7%	6.5%	7.2%	7.0%	6.6%	Jul-1
Total Private Equity	\$9,532,634	1.0%								M
Manager R	\$24,424	0.0%							~	M
Manager S	\$200,447	0.0%							TH	0
Manager T	\$9,307,763	1.0%			-					
Total Other	\$5,430,242	0.6%								
Manager U	\$5,430,242	0.6%							all	N.
Total Cash Equivalents	\$519,123	0.1%							9	1 CQ
Manager V	\$519,123	0.1%								

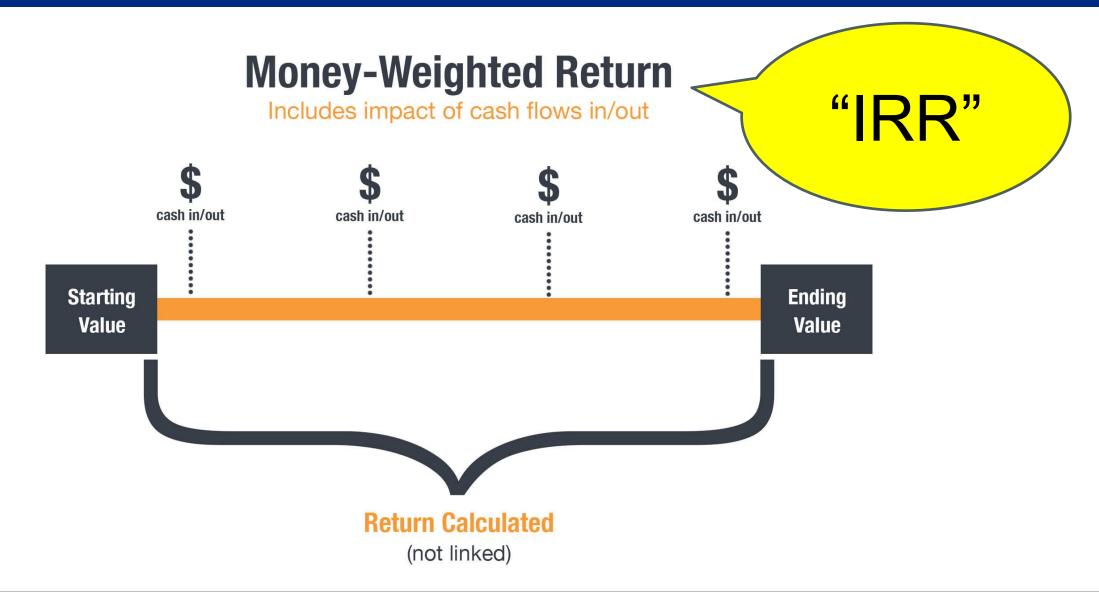
### Time Weighted vs. Dollar Weighted Returns

### **Time-Weighted Return**

Doesn't include impact of cash flows in/out



### Time Weighted vs. Dollar Weighted Returns



### **Trustee Guidance**

### **Understanding Investment Benchmarks**

- 4. Trustee guidance
  - -Equities
  - -Fixed Income
  - -Private Markets

### **Benchmarking Equities**

<u>Key Considerations</u>: Equity Indices will differ based on their inclusion methodology. The stocks held in the investment manager's portfolio should resemble the stocks in the benchmark.

Large Cap US Equities – S&P 500 vs. Russell 1000

- **S&P 500**: Fewer Constituents = More Concentrated; Proxy for the largest US companies.
- **Russell 1000**: More diversified and includes some "Mid Cap" companies.

#### Small Cap US Equities – S&P 600 vs. Russell 2000

- **S&P 600**: More concentrated; Includes <u>only</u> profitable companies.
- *Russell 2000*: Includes the 2000 smallest US companies; "Full opportunity set"

International Equities – MSCI EAFE vs. MSCI ACWI ex US

- **MSCI EAFE**: Large & Mid-Cap Companies in Developed Markets
- MSCI ACWI ex US: Includes companies in both Developed & Emerging Markets

### **Benchmarking Fixed Income**

<u>Key Considerations</u>: Bond markets are considerably larger than equity markets. Bond Indices are typically constructed based on the type of bonds (sectors), maturity profile, and credit risk. The bonds held in the investment manager's portfolio should resemble the characteristics of the benchmark.

		Bond S	Credit Quality			
Index Name	US Treasuries	Corporate Bonds	Government Bonds	Asset-Backed/ Mortgages	Investment Grade	Non-IG/ High Yield
Bloomberg US Aggregate Bond Index	✓	✓	✓	✓	✓	
Bloomberg US Government/Credit Index		✓	~		~	
Bloomberg US Mortgage-Backed Securities				✓	✓	
Bloomberg US Corporate Bond Index		✓			~	
Bloomberg US High Yield Bond Index		✓				✓

### **Benchmarking Private Markets**

<u>Key Considerations</u>: Private market strategies (ex. Private Equity, Private Debt, Real Estate) are <u>not</u> transparent and have limited data around asset prices and transactions. This makes it difficult to construct standardized benchmarks.

#### Two common approaches:

 <u>Peer Group Benchmarks</u>: Use a benchmark that tracks the performance of investment funds with a similar investment strategy. A notable example is the ODCE Real Estate Index which tracks the performance of open-end funds primarily investing in core real estate.

**Pros:** Representative of asset class performance; Transparent

**Cons:** Limited availability across asset classes & sub-strategies

### Benchmarking Private Markets

2) <u>Public Market Proxy</u>: Use a public market benchmark with similar economic drivers to risk and return. Investors may add premium to justify the illiquidity risk of the investment. An example is the Russell 2000 for private equity or CPI+X% for infrastructure.

Pros: Frequently priced; Represent an investible alternative; CustomizableCons: It's a proxy – It may misrepresent the risk & return of the asset class

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