



# Discussion Guide

Fairfax County Public Schools  
Fourth Quarter 2023

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# Table Of Contents

I	Executive Summary	Page 3
II	Total Plan	Page 8
III	Market Environment	Page 28
IV	Appendix	Page 44

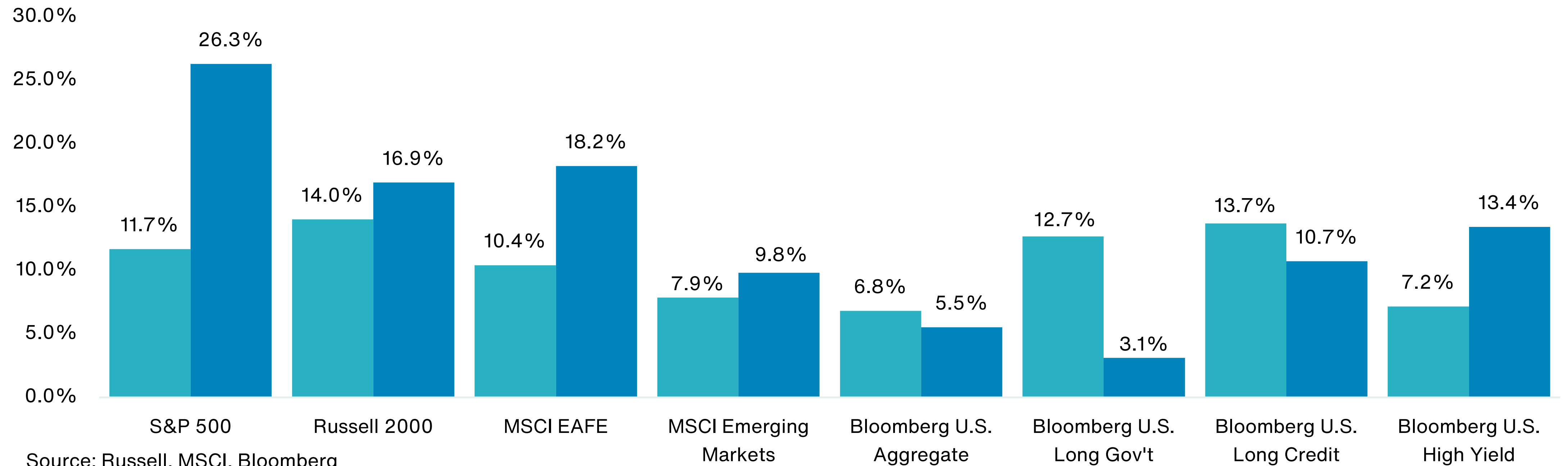
**Executive Summary**



# Market Highlights

## SHORT TERM RETURNS AS OF 12/31/2023

■ Fourth Quarter 2023 ■ YTD



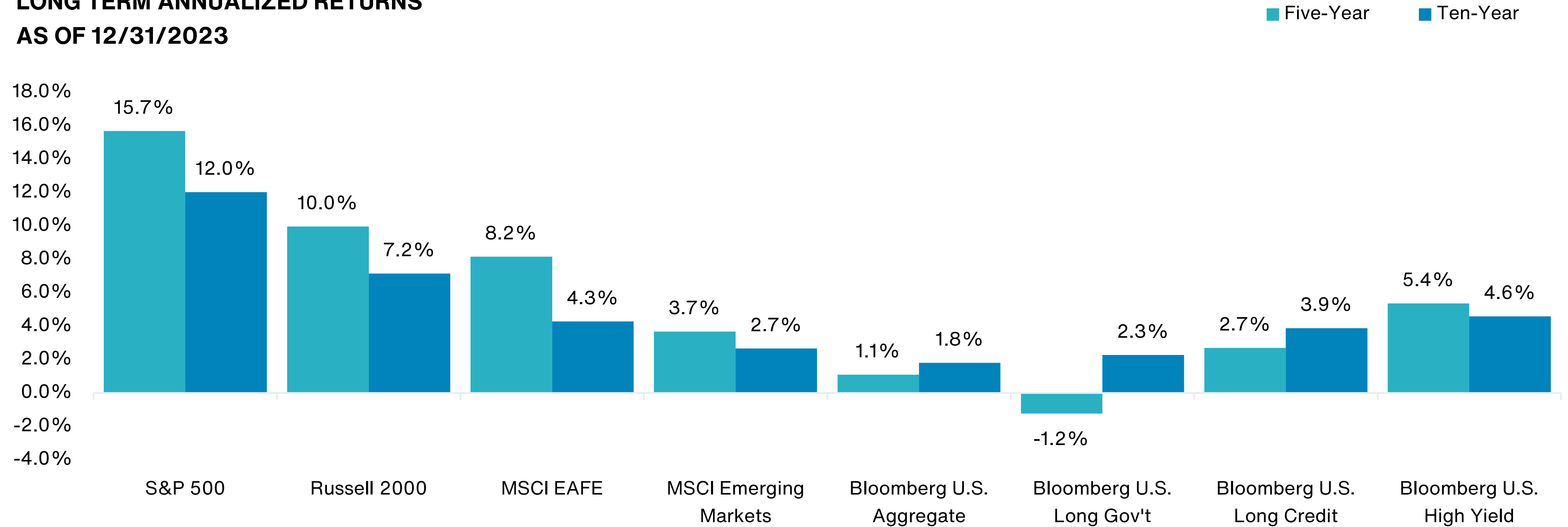
Source: Russell, MSCI, Bloomberg

MSCI Indices show net total returns throughout this report. All other indices show gross total returns.

**Past performance is no guarantee of future results.** Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect fees and expenses. Please see appendix for index definitions and other general disclosures.

# Market Highlights

## LONG TERM ANNUALIZED RETURNS AS OF 12/31/2023



Source: Russell, MSCI, Bloomberg

**Past performance is no guarantee of future results.** Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect fees and expenses. Please see appendix for index definitions and other general disclosures.

# Market Highlights

## Returns of the Major Capital Markets

	Period Ending 12/31/2023					
	Fourth Quarter	YTD	1-Year	3-Year <sup>1</sup>	5-Year <sup>1</sup>	10-Year <sup>1</sup>
<b>Equity</b>						
MSCI All Country World IMI	11.14%	21.58%	21.58%	5.46%	11.49%	7.77%
MSCI All Country World	11.03%	22.20%	22.20%	5.75%	11.72%	7.93%
Dow Jones U.S. Total Stock Market	12.13%	26.06%	26.06%	8.43%	15.05%	11.40%
Russell 3000	12.07%	25.96%	25.96%	8.54%	15.16%	11.48%
S&P 500	11.69%	26.29%	26.29%	10.00%	15.69%	12.03%
Russell 2000	14.03%	16.93%	16.93%	2.22%	9.97%	7.16%
MSCI All Country World ex-U.S. IMI	9.81%	15.62%	15.62%	1.53%	7.18%	3.97%
MSCI All Country World ex-U.S.	9.75%	15.62%	15.62%	1.55%	7.08%	3.83%
MSCI EAFE	10.42%	18.24%	18.24%	4.02%	8.16%	4.28%
MSCI EAFE (Local Currency)	4.96%	16.16%	16.16%	8.64%	9.49%	6.61%
MSCI Emerging Markets	7.86%	9.83%	9.83%	-5.08%	3.68%	2.66%
<b>Equity Factors</b>						
MSCI World Minimum Volatility (USD)	6.84%	8.14%	8.14%	4.05%	7.60%	7.97%
MSCI World High Dividend Yield	7.18%	10.14%	10.14%	7.32%	9.18%	6.73%
MSCI World Quality	12.55%	32.97%	32.97%	9.41%	17.05%	12.18%
MSCI World Momentum	12.17%	12.25%	12.25%	2.17%	11.98%	10.32%
MSCI World Enhanced Value	8.30%	20.27%	20.27%	9.66%	8.84%	6.05%
MSCI World Index Growth	13.40%	37.31%	37.31%	5.75%	16.31%	11.28%
MSCI USA Minimum Volatility (USD)	7.79%	9.79%	9.79%	6.46%	10.30%	10.41%
MSCI USA High Dividend Yield	8.31%	6.83%	6.83%	7.83%	9.32%	9.39%
MSCI USA Quality	12.03%	36.30%	36.30%	10.39%	18.13%	13.81%
MSCI USA Momentum	12.76%	9.50%	9.50%	0.70%	11.13%	11.72%
MSCI USA Enhanced Value	12.30%	14.42%	14.42%	8.34%	10.12%	8.44%
MSCI USA Equal Weighted	12.70%	17.63%	17.63%	7.07%	12.97%	9.80%
MSCI USA Growth	13.68%	46.72%	46.72%	8.01%	19.94%	14.83%

## Returns of the Major Capital Markets

	Period Ending 12/31/2023					
	Fourth Quarter	YTD	1-Year	3-Year <sup>1</sup>	5-Year <sup>1</sup>	10-Year <sup>1</sup>
<b>Fixed Income</b>						
Bloomberg Global Aggregate	8.10%	5.72%	5.72%	-5.51%	-0.32%	0.38%
Bloomberg U.S. Aggregate	6.82%	5.53%	5.53%	-3.31%	1.10%	1.81%
Bloomberg U.S. Long Gov't	12.69%	3.11%	3.11%	-11.35%	-1.23%	2.27%
Bloomberg U.S. Long Credit	13.71%	10.73%	10.73%	-6.50%	2.70%	3.88%
Bloomberg U.S. Long Gov't/Credit	13.24%	7.13%	7.13%	-8.68%	1.12%	3.22%
Bloomberg U.S. TIPS	4.71%	3.90%	3.90%	-1.00%	3.15%	2.42%
Bloomberg U.S. High Yield	7.16%	13.45%	13.45%	1.98%	5.37%	4.60%
Bloomberg Global Treasury ex U.S.	9.29%	4.24%	4.24%	-8.34%	-2.39%	-0.99%
JP Morgan EMBI Global (Emerging Market)	9.26%	10.45%	10.45%	-3.14%	1.94%	3.06%
<b>Commodities</b>						
Bloomberg Commodity Index	-4.63%	-7.91%	-7.91%	10.76%	7.23%	-1.11%
Goldman Sachs Commodity Index	-10.73%	-4.27%	-4.27%	19.18%	8.72%	-3.60%
<b>Hedge Funds</b>						
HFRI Fund-Weighted Composite <sup>2</sup>	3.59%	7.52%	7.52%	4.32%	7.00%	4.53%
HFRI Fund of Funds <sup>2</sup>	3.41%	6.35%	6.35%	2.25%	5.14%	3.25%
<b>Real Estate</b>						
NAREIT U.S. Equity REITS	16.22%	13.73%	13.73%	7.21%	7.39%	7.65%
FTSE Global Core Infrastructure Index	11.42%	1.58%	1.58%	4.09%	7.18%	7.01%
<b>Private Equity</b>						
Burgiss Private iQ Global Private Equity <sup>3</sup>			2.47%	19.41%	15.14%	14.53%

MSCI Indices show net total returns throughout this report. All other indices show gross total returns.

<sup>1</sup> Periods are annualized.

<sup>2</sup> Latest 5 months of HFR data are estimated by HFR and may change in the future.

<sup>3</sup> Burgiss Private iQ Global Private Equity data is as at June 30, 2023

**Past performance is no guarantee of future results.** Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect fees and expenses. Please see appendix for index definitions and other general disclosures.

# Thought Leadership Highlights

## Defined Contribution

Topic	Article	Link
<b>Annual Themes</b>	2024 Key Investment Themes for DC Plans (video passcode 'aon!')	<a href="#">Article on Request</a> <a href="#">Link to Video</a>
<b>Governance</b>	Outsourced Chief Investment Officer: The Key to Navigating Volatility	<a href="#">Link</a>
	What Drives Fiduciary Liability? Survey of Leading Carriers for Fiduciary Liability Insurance	<a href="#">Link</a>
<b>Retirement Plans</b>	SECURE 2.0 Frequently Asked Questions (September 2023)	<a href="#">Link</a>
	SECURE 2.0 Major Provisions Impacting Defined Contribution Plans	<a href="#">Link</a>
	SECURE 2.0 Action Plan	<a href="#">Link</a>
	Four Ways Retirement Plans Can Reduce the Gender Savings Gap	<a href="#">Link</a>
<b>Market View</b>	Quarterly Market Review and Outlook Video (access code 'aon!')	<a href="#">Link to Article</a> <a href="#">Link to Video</a>
	Rate Cuts Ahead?	<a href="#">Link</a>
<b>Oversight</b>	Putting 'Watch Lists' on Watch?	<a href="#">Link</a>
	DC Audit Cost Survey 2023	<a href="#">Link</a>
<b>Strategy Review</b>	Aon's Environmental Social and Governance (ESG) Manager Ratings: 3 Questions With Daniel Ingram	<a href="#">Link</a>
	Diverse Manager Initiatives: Three Questions for Institutional Investors	<a href="#">Link</a>
	Active vs Passive	<a href="#">Link</a>
<b>Asset Allocation</b>	Q3 Stable Value Quarterly	<a href="#">Link to Article</a>
	The Strength of the U.S. Equity Market and its Impact on Equity Allocations	<a href="#">Link</a>
<b>Legal &amp; Compliance</b>	Legal & Compliance quarterly update newsletter (5-minute summary, access code 'aon!')	<a href="#">Link to Article</a> <a href="#">Link to Video</a>

If you do not get Aon Investments' monthly email newsletter, but would like to, please ask your consultant.

Total Plan



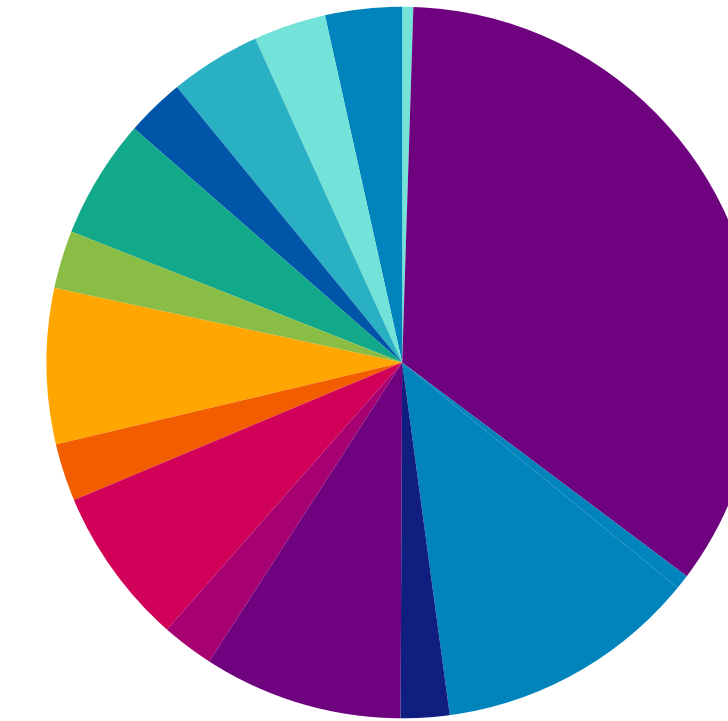
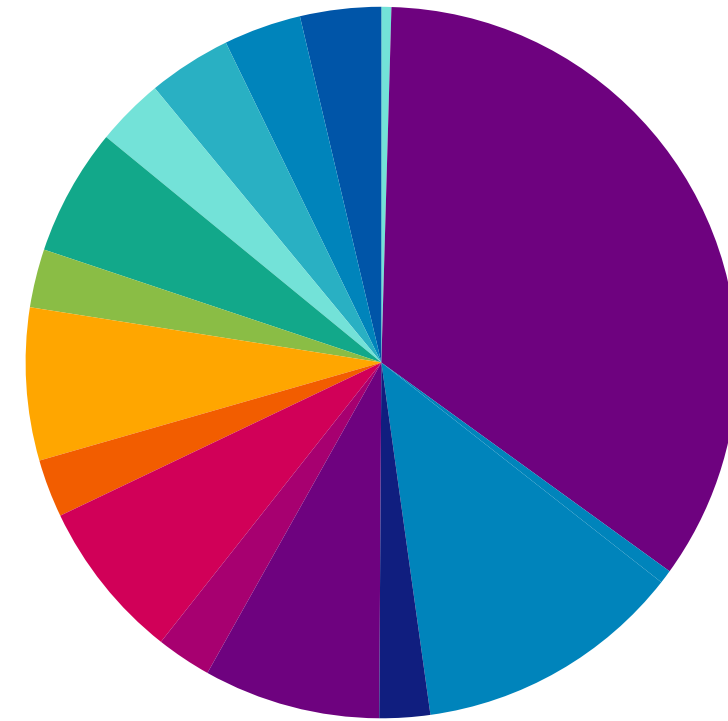


# Asset Allocation by Manager - Corebridge 403(b) Plan

As of December 31, 2023

December 31, 2023 : \$511,645,638

September 30, 2023 : \$459,490,646



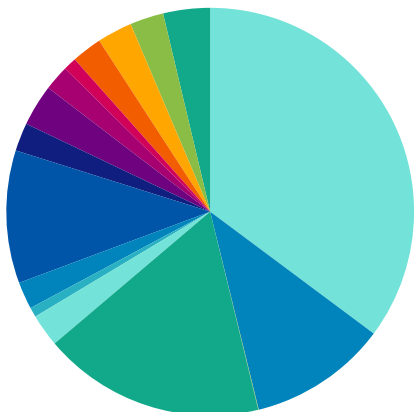
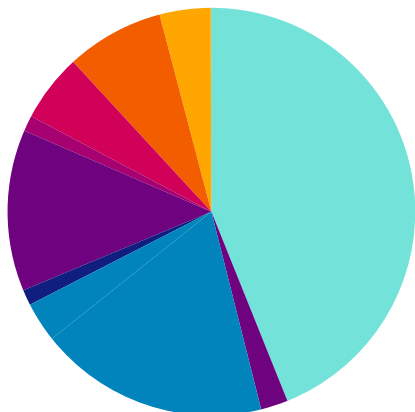
	Market Value \$	Allocation %		Market Value \$	Allocation %
T. Rowe Price Retirement Series	176,623,959.22	34.52	T. Rowe Price Retirement Series	159,691,408.98	34.75
AIG Fixed Fund	41,118,640.67	8.04	AIG Fixed Fund	41,586,059.38	9.05
Alliance Bernstein Large Cap Growth	13,500,080.17	2.64	Alliance Bernstein Large Cap Growth	12,005,858.40	2.61
American Cap World Growth	35,468,801.58	6.93	American Cap World Growth	32,464,373.28	7.07
American Funds Fundamental Invs	18,808,421.31	3.68	American Funds Fundamental Invs	12,256,890.82	2.67
Janus Henderson Triton	3,168,257.33	0.62	Janus Henderson Triton	3,010,858.13	0.66
JP Morgan Mid Cap Growth	11,751,234.72	2.30	JP Morgan Mid Cap Growth	10,132,104.65	2.21
Plan Loan	2,311,804.96	0.45	Plan Loan	2,287,865.16	0.50
Vanguard Developed Markets Index	37,288,756.67	7.29	Vanguard Developed Markets Index	33,073,510.96	7.20
Vanguard Institutional Index	62,455,098.89	12.21	Vanguard Institutional Index	54,966,998.59	11.96
Vanguard Mid Cap Index	13,564,836.05	2.65	Vanguard Mid Cap Index	12,096,024.65	2.63
Vanguard Selected Value	12,786,215.45	2.50	Vanguard Selected Value	10,867,858.58	2.37
Vanguard Small Cap Institutional Index	29,595,547.30	5.78	Vanguard Small Cap Institutional Index	24,935,949.29	5.43
Vanguard Total Bond Market Index (VBTLX)	15,803,668.70	3.09	Vanguard Total Bond Market Index (VBTLX)	15,152,319.78	3.30
Vanguard Windsor II	19,348,344.03	3.78	Vanguard Windsor II	18,966,867.23	4.13
Western Asset Core Plus Bond	18,051,971.16	3.53	Western Asset Core Plus Bond	15,995,698.34	3.48

# Asset Allocation by Manager - Empower 403(b) Plan

As of December 31, 2023

December 31, 2023 : \$214,686,799

September 30, 2023 : \$306,998,614



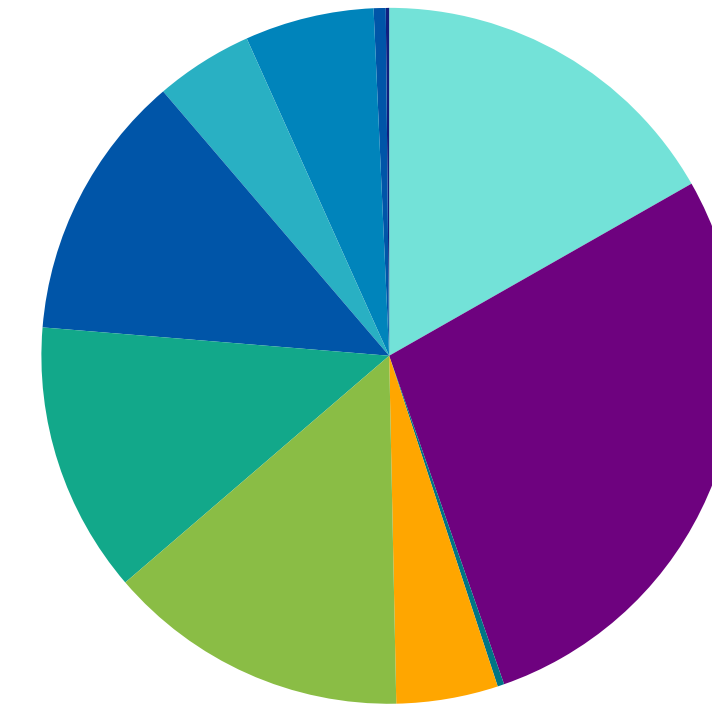
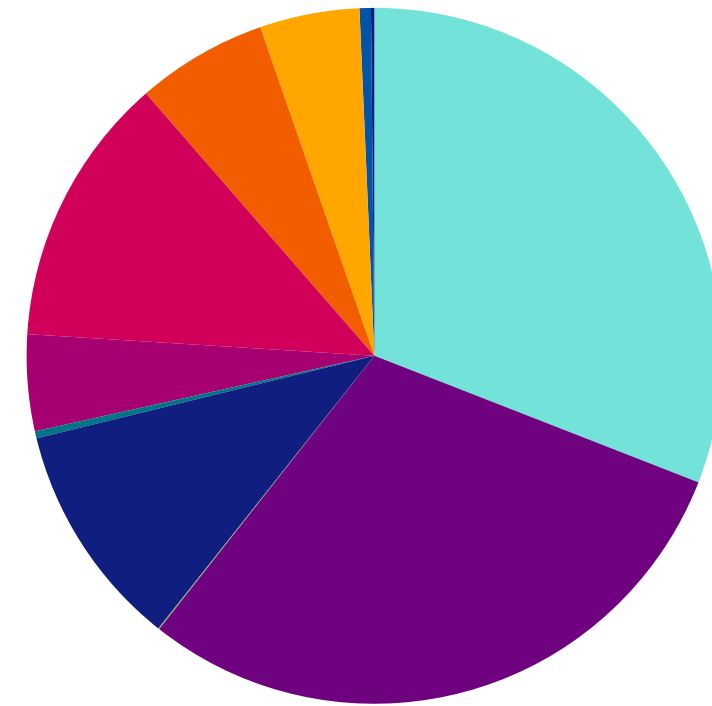
	Market Value \$	Allocation %		Market Value \$	Allocation %
T. Rowe Price Retirement Series	94,293,211	43.9	T. Rowe Price Retirement Series	108,057,483	35.2
Vanguard Total Bond Market	4,625,752	2.2	Vanguard Total Bond Market	-	0.0
iShares S&P 500 Index	39,122,099	18.2	iShares S&P 500 Index	33,694,531	11.0
Vanguard Total International Stock Mrkt Index	6,787,299	3.2	Vanguard Total International Stock Mrkt Index	-	0.0
Vanguard Extended Market Index	2,660,630	1.2	Vanguard Extended Market Index	-	0.0
Great West Fixed Fund 403(b)	27,490,882	12.8	Great West Fixed Fund 403(b)	-	0.0
PIMCO Inflation Response Multi-Asset Inst	2,683,284	1.2	PIMCO Inflation Response Multi-Asset Inst	-	0.0
Baird Core Plus Bond	11,559,640	5.4	Baird Core Plus Bond	-	0.0
Boston Trust SMID Cap Fund	16,659,371	7.8	Boston Trust SMID Cap Fund	-	0.0
GQG International Opportunities Fund	8,676,164	4.0	GQG International Opportunities Fund	-	0.0
Forfeiture Account	128,466	0.1	Forfeiture Account	121,566	0.0
Empower Lifetime Retirement Series	-	0.0	Empower Lifetime Retirement Series	54,028,741	17.6
American Funds EuroPacific Growth Fund	-	0.0	American Funds EuroPacific Growth Fund	7,946,703	2.6
Columbia Select Mid Cap Value Fund	-	0.0	Columbia Select Mid Cap Value Fund	2,335,670	0.8
Delaware Small Cap Core	-	0.0	Delaware Small Cap Core	6,644,177	2.2
Great West Portfolio Fund	-	0.0	Great West Portfolio Fund	32,348,812	10.5
Empower T. Rowe Price Mid Cap Growth Fund	-	0.0	Empower T. Rowe Price Mid Cap Growth Fund	6,832,463	2.2
Fidelity International Index	-	0.0	Fidelity International Index	10,152,724	3.3
Pioneer Bond	-	0.0	Pioneer Bond	6,145,042	2.0
MFS Value	-	0.0	MFS Value	3,191,432	1.0
Parnassus Core Equity	-	0.0	Parnassus Core Equity	7,381,122	2.4
Putnam Growth Opportunities	-	0.0	Putnam Growth Opportunities	8,523,043	2.8
Vanguard Mid Cap Index	-	0.0	Vanguard Mid Cap Index	8,195,898	2.7
Vanguard Total Bond Market Index (VBTLX)	-	0.0	Vanguard Total Bond Market Index (VBTLX)	11,399,208	3.7

# Asset Allocation by Manager - Empower 457(b) Plan

As of December 31, 2023

December 31, 2023 : \$341,039,479

September 30, 2023 : \$320,513,264



	Market Value \$	Allocation %		Market Value \$	Allocation %
T. Rowe Price Target Retirement Funds	105,468,536	30.9	T. Rowe Price Target Retirement Funds	53,715,929	16.8
iShares S&P 500 Index	101,267,680	29.7	iShares S&P 500 Index	89,372,088	27.9
Vanguard Extended Market Index	34,143	0.0	Vanguard Extended Market Index	-	0.0
Vanguard Total International Stock Mrkt Index	143,224	0.0	Vanguard Total International Stock Mrkt Index	-	0.0
Great West Fixed Fund 457(b)	35,860,328	10.5	Great West Fixed Fund 457(b)	-	0.0
PIMCO Inflation Response Multi-Asset Inst	1,118,453	0.3	PIMCO Inflation Response Multi-Asset Inst	986,401	0.3
Baird Core Plus Bond	15,266,112	4.5	Baird Core Plus Bond	-	0.0
Boston Trust SMID Cap Fund	42,995,120	12.6	Boston Trust SMID Cap Fund	-	0.0
GQG International Opportunities Fund	20,735,806	6.1	GQG International Opportunities Fund	-	0.0
Vanguard Total Bond Market Index	15,803,669	4.6	Vanguard Total Bond Market Index	15,152,320	4.7
Vanguard Mid Cap Index	-	0.0	Vanguard Mid Cap Index	44,962,284	14.0
Baron Growth Inst	-	0.0	Baron Growth Inst	40,370,996	12.6
Great West Portfolio Fund	19,838	0.0	Great West Portfolio Fund	39,851,329	12.4
PIMCO Total Return Adm	-	0.0	PIMCO Total Return Adm	14,577,763	4.5
Artisan International Inv	-	0.0	Artisan International Inv	19,218,362	6.0
Loan Fund	1,781,515	0.5	Loan Fund	1,793,911	0.6
Forfeiture Account	545,056	0.2	Forfeiture Account	511,882	0.2

# Active Manager Scorecard\*

## As of December 31, 2023

Fund Name	Return Relative to Benchmark				Ranking Relative to Median Peer				Rolling 3-Year Period Performance Benchmark	Rolling 3-Year Period Performance Peer Group Median
	1 Quarter	1 Year	3 Years	5 Years	1 Quarter	1 Year	3 Years	5 Years		
Tier I - Target Date Funds										
T. Rowe Price Retirement I 2005 I	-0.54	-0.72	-0.21	-0.17	54	6	12	7	45	100
T. Rowe Price Retirement I 2010 I	-0.59	-0.83	-0.23	-0.20	19	4	5	1	45	95
T. Rowe Price Retirement I 2015 I	-0.60	-0.86	-0.23	-0.17	47	8	9	1	45	95
T. Rowe Price Retirement I 2020 I	-0.60	-0.85	-0.22	-0.16	52	7	7	1	45	95
T. Rowe Price Retirement I 2025 I	-0.68	-0.90	-0.38	-0.28	62	7	5	1	30	95
T. Rowe Price Retirement I 2030 I	-0.69	-0.96	-0.62	-0.41	60	7	15	1	25	95
T. Rowe Price Retirement I 2035 I	-0.72	-1.06	-0.85	-0.53	50	5	20	14	25	100
T. Rowe Price Retirement I 2040 I	-0.75	-1.21	-1.15	-0.67	63	16	49	14	20	100
T. Rowe Price Retirement I 2045 I	-0.77	-1.31	-1.23	-0.71	66	19	58	22	15	95
T. Rowe Price Retirement I 2050 I	-0.78	-1.32	-1.27	-0.73	70	21	63	25	15	95
T. Rowe Price Retirement I 2055 I	-0.82	-1.44	-1.30	-0.77	71	21	62	26	15	95
T. Rowe Price Retirement I 2060 I	-0.75	-1.43	-1.29	-0.75	78	43	68	-	15	-
T. Rowe Price Retirement I 2065 I	-0.74	-1.38	-1.20	-	76	41	41	-	-	-
Tier III - Active Core										
Great West Fixed Fund 457(b)	-0.86	-3.05	-0.39	-	81	82	60	-	-	-
Great West Fixed Fund 403(b)	-0.89	-3.12	-0.45	-0.34	90	85	64	87	-	-
AIG Fixed Fund	-0.82	-2.82	-0.25	0.10	76	75	47	49	-	-
PIMCO Inflation Response Multi-Asset Inst	0.78	2.29	1.92	1.81	78	78	22	37	95	50
Baird Core Plus Bond	0.29	0.72	0.29	0.57	38	46	43	46	95	70
Boston Trust SMID Cap Fund	-1.46	-4.28	4.85	0.57	46	76	36	43	70	85
GQG International Opportunities Fund	2.74	6.50	5.36	5.47	13	5	11	2	-	-

■ Above Benchmark, and above/at median percentile  
■ Within 1.0% of benchmark, and the third quartile peer group  
■ > 1.0% below the benchmark, and the fourth quartile peer group

\*Tier II is not included because it is Passive Core.  
 Percentages are determined by the outperformance of the trailing 3-Year returns to the benchmark and peer group median over the prior twenty quarters.

# Fairfax County Public Schools

As of December 31, 2023

	Performance %					
	1 Quarter	1 Year	3 Years	5 Years	7 Years	10 Years
<b>Total Fairfax Public Schools Plans</b>						
<b>Tier I - Target Date</b>						
<b>T. Rowe Price Retirement I 2005 I</b>	<b>7.53 (54)</b>	<b>12.06 (6)</b>	<b>1.59 (12)</b>	<b>6.13 (7)</b>	<b>5.39 (2)</b>	<b>-</b>
<i>T. Rowe Price Retirement 2005 Index</i>	<i>8.07 (28)</i>	<i>12.77 (3)</i>	<i>1.80 (9)</i>	<i>6.30 (5)</i>	<i>5.52 (1)</i>	<i>4.97 (3)</i>
<b>T. Rowe Price Retirement I 2010 I</b>	<b>7.72 (19)</b>	<b>12.55 (4)</b>	<b>1.85 (5)</b>	<b>6.60 (1)</b>	<b>5.81 (1)</b>	<b>-</b>
<i>T. Rowe Price Retirement 2010 Index</i>	<i>8.31 (1)</i>	<i>13.38 (1)</i>	<i>2.08 (3)</i>	<i>6.80 (1)</i>	<i>5.95 (1)</i>	<i>5.33 (1)</i>
<b>T. Rowe Price Retirement I 2015 I</b>	<b>7.94 (47)</b>	<b>13.06 (8)</b>	<b>2.12 (9)</b>	<b>7.15 (1)</b>	<b>6.34 (1)</b>	<b>-</b>
<i>T. Rowe Price Retirement 2015 Index</i>	<i>8.54 (1)</i>	<i>13.92 (1)</i>	<i>2.35 (3)</i>	<i>7.31 (1)</i>	<i>6.45 (1)</i>	<i>5.79 (1)</i>
<b>T. Rowe Price Retirement I 2020 I</b>	<b>8.18 (52)</b>	<b>13.65 (7)</b>	<b>2.45 (7)</b>	<b>7.79 (1)</b>	<b>6.99 (1)</b>	<b>-</b>
<i>T. Rowe Price Retirement 2020 Index</i>	<i>8.78 (13)</i>	<i>14.50 (1)</i>	<i>2.66 (4)</i>	<i>7.95 (1)</i>	<i>7.04 (1)</i>	<i>6.27 (1)</i>
<b>T. Rowe Price Retirement I 2025 I</b>	<b>8.54 (62)</b>	<b>14.71 (7)</b>	<b>2.80 (5)</b>	<b>8.57 (1)</b>	<b>7.69 (1)</b>	<b>-</b>
<i>T. Rowe Price Retirement 2025 Index</i>	<i>9.22 (14)</i>	<i>15.61 (1)</i>	<i>3.18 (1)</i>	<i>8.85 (1)</i>	<i>7.82 (1)</i>	<i>6.91 (1)</i>
<b>T. Rowe Price Retirement I 2030 I</b>	<b>9.31 (60)</b>	<b>16.54 (7)</b>	<b>3.29 (15)</b>	<b>9.40 (1)</b>	<b>8.39 (1)</b>	<b>-</b>
<i>T. Rowe Price Retirement 2030 Index</i>	<i>10.00 (2)</i>	<i>17.50 (1)</i>	<i>3.92 (1)</i>	<i>9.82 (1)</i>	<i>8.60 (1)</i>	<i>7.52 (1)</i>
<b>T. Rowe Price Retirement I 2035 I</b>	<b>9.96 (50)</b>	<b>18.32 (5)</b>	<b>3.87 (20)</b>	<b>10.20 (14)</b>	<b>9.04 (4)</b>	<b>-</b>
<i>T. Rowe Price Retirement 2035 Index</i>	<i>10.69 (1)</i>	<i>19.38 (1)</i>	<i>4.71 (6)</i>	<i>10.73 (1)</i>	<i>9.33 (2)</i>	<i>8.06 (1)</i>
<b>T. Rowe Price Retirement I 2040 I</b>	<b>10.35 (63)</b>	<b>19.80 (16)</b>	<b>4.32 (49)</b>	<b>10.87 (14)</b>	<b>9.59 (4)</b>	<b>-</b>
<i>T. Rowe Price Retirement 2040 Index</i>	<i>11.10 (11)</i>	<i>21.01 (2)</i>	<i>5.47 (6)</i>	<i>11.54 (1)</i>	<i>9.97 (1)</i>	<i>8.53 (1)</i>
<b>T. Rowe Price Retirement I 2045 I</b>	<b>10.61 (66)</b>	<b>20.63 (19)</b>	<b>4.70 (58)</b>	<b>11.33 (22)</b>	<b>9.92 (4)</b>	<b>-</b>
<i>T. Rowe Price Retirement 2045 Index</i>	<i>11.38 (7)</i>	<i>21.95 (1)</i>	<i>5.93 (10)</i>	<i>12.05 (1)</i>	<i>10.32 (1)</i>	<i>8.78 (1)</i>
<b>T. Rowe Price Retirement I 2050 I</b>	<b>10.64 (70)</b>	<b>20.92 (21)</b>	<b>4.77 (63)</b>	<b>11.38 (25)</b>	<b>9.95 (13)</b>	<b>-</b>
<i>T. Rowe Price Retirement 2050 Index</i>	<i>11.42 (19)</i>	<i>22.24 (3)</i>	<i>6.03 (10)</i>	<i>12.11 (1)</i>	<i>10.37 (1)</i>	<i>8.82 (1)</i>
<b>T. Rowe Price Retirement I 2055 I</b>	<b>10.64 (71)</b>	<b>20.93 (21)</b>	<b>4.77 (62)</b>	<b>11.37 (26)</b>	<b>9.95 (14)</b>	<b>-</b>
<i>T. Rowe Price Retirement 2055 Index</i>	<i>11.47 (17)</i>	<i>22.38 (2)</i>	<i>6.07 (10)</i>	<i>12.13 (1)</i>	<i>10.38 (1)</i>	<i>8.83 (1)</i>

# Fairfax County Public Schools

As of December 31, 2023

	Performance %					
	1 Quarter	1 Year	3 Years	5 Years	7 Years	10 Years
<b>T. Rowe Price Retirement I 2060 I</b>	<b>10.71 (78)</b>	<b>20.95 (43)</b>	<b>4.77 (68)</b>	<b>11.38 (-)</b>	<b>9.97 (-)</b>	<b>-</b>
<i>T. Rowe Price Retirement 2060 Index</i>	<i>11.47 (29)</i>	<i>22.38 (8)</i>	<i>6.06 (12)</i>	<i>12.13 (-)</i>	<i>10.38 (-)</i>	<i>-</i>
<b>T. Rowe Price Retirement I 2065 I</b>	<b>10.72 (76)</b>	<b>21.00 (41)</b>	<b>5.08 (41)</b>	<b>-</b>	<b>-</b>	<b>-</b>
<i>T. Rowe Price Retirement 2065 Index</i>	<i>11.47 (29)</i>	<i>22.38 (8)</i>	<i>6.28 (10)</i>	<i>-</i>	<i>-</i>	<i>-</i>
<b>Tier II - Passive Core</b>						
<b>Vanguard Total Bond Market Index</b>	<b>6.69 (62)</b>	<b>5.72 (64)</b>	<b>-3.34 (51)</b>	<b>1.13 (73)</b>	<b>1.31 (69)</b>	<b>1.80 (69)</b>
<i>Blmbg. U.S. Aggregate</i>	<i>6.82 (51)</i>	<i>5.53 (75)</i>	<i>-3.31 (48)</i>	<i>1.10 (74)</i>	<i>1.29 (70)</i>	<i>1.81 (68)</i>
<b>iShares S&amp;P 500 Index</b>	<b>11.67 (41)</b>	<b>26.24 (38)</b>	<b>9.96 (24)</b>	<b>15.66 (16)</b>	<b>13.39 (13)</b>	<b>12.00 (11)</b>
<i>S&amp;P 500 Index</i>	<i>11.69 (17)</i>	<i>26.29 (12)</i>	<i>10.00 (2)</i>	<i>15.69 (4)</i>	<i>13.42 (4)</i>	<i>12.03 (1)</i>
<b>Vanguard Total International Stock Mrkt Index</b>	<b>9.98 (73)</b>	<b>15.53 (79)</b>	<b>1.80 (83)</b>	<b>7.37 (77)</b>	<b>6.54 (60)</b>	<b>4.12 (53)</b>
<i>Vanguard Spliced Total International Stock Index</i>	<i>9.77 (74)</i>	<i>15.79 (78)</i>	<i>1.88 (80)</i>	<i>7.46 (72)</i>	<i>6.55 (60)</i>	<i>4.20 (41)</i>
<b>Vanguard Extended Market Index</b>	<b>15.13 (5)</b>	<b>25.41 (9)</b>	<b>1.23 (77)</b>	<b>11.92 (49)</b>	<b>9.44 (43)</b>	<b>8.56 (47)</b>
<i>Vanguard Spliced Extended Market Index</i>	<i>14.90 (6)</i>	<i>24.97 (12)</i>	<i>1.04 (78)</i>	<i>11.77 (52)</i>	<i>9.30 (47)</i>	<i>8.42 (51)</i>

# Fairfax County Public Schools

As of December 31, 2023

	Performance %					
	1 Quarter	1 Year	3 Years	5 Years	7 Years	10 Years
<b>Tier III - Active Core</b>						
<b>Great West Fixed Fund 457(b)</b>	<b>0.51 (81)</b>	<b>1.97 (82)</b>	<b>1.76 (60)</b>	<b>-</b>	<b>-</b>	<b>-</b>
<i>90 Day U.S. Treasury Bill</i>	<i>1.37 (7)</i>	<i>5.02 (5)</i>	<i>2.15 (16)</i>	<i>1.88 (59)</i>	<i>1.73 (68)</i>	<i>1.24 (95)</i>
<b>Great West Fixed Fund 403(b)</b>	<b>0.48 (90)</b>	<b>1.90 (85)</b>	<b>1.70 (64)</b>	<b>1.54 (87)</b>	<b>-</b>	<b>-</b>
<i>90 Day U.S. Treasury Bill</i>	<i>1.37 (7)</i>	<i>5.02 (5)</i>	<i>2.15 (16)</i>	<i>1.88 (59)</i>	<i>1.73 (68)</i>	<i>1.24 (95)</i>
<b>AIG Fixed Fund</b>	<b>0.55 (76)</b>	<b>2.20 (75)</b>	<b>1.90 (47)</b>	<b>1.98 (49)</b>	<b>-</b>	<b>-</b>
<i>90 Day U.S. Treasury Bill</i>	<i>1.37 (7)</i>	<i>5.02 (5)</i>	<i>2.15 (16)</i>	<i>1.88 (59)</i>	<i>1.73 (68)</i>	<i>1.24 (95)</i>
<b>PIMCO Inflation Response Multi-Asset Inst</b>	<b>5.52 (78)</b>	<b>6.50 (78)</b>	<b>4.77 (22)</b>	<b>6.71 (37)</b>	<b>5.42 (47)</b>	<b>4.24 (56)</b>
<i>PIMCO IRMA Benchmark</i>	<i>4.74 (85)</i>	<i>4.22 (90)</i>	<i>2.85 (43)</i>	<i>4.90 (62)</i>	<i>3.63 (77)</i>	<i>2.36 (88)</i>
<b>Baird Core Plus Bond</b>	<b>7.12 (38)</b>	<b>6.89 (46)</b>	<b>-2.67 (43)</b>	<b>2.01 (46)</b>	<b>2.01 (44)</b>	<b>2.54 (23)</b>
<i>Blmbg. U.S. Universal Index</i>	<i>6.83 (58)</i>	<i>6.17 (77)</i>	<i>-2.97 (59)</i>	<i>1.44 (77)</i>	<i>1.57 (77)</i>	<i>2.08 (55)</i>
<b>Boston Trust SMID Cap Fund</b>	<b>11.89 (46)</b>	<b>13.14 (76)</b>	<b>9.09 (36)</b>	<b>12.24 (43)</b>	<b>10.33 (15)</b>	<b>9.28 (14)</b>
<i>Russell 2500 Index</i>	<i>13.35 (18)</i>	<i>17.42 (28)</i>	<i>4.24 (89)</i>	<i>11.67 (56)</i>	<i>8.98 (41)</i>	<i>8.36 (51)</i>
<b>GQG International Opportunities Fund</b>	<b>12.50 (13)</b>	<b>22.11 (5)</b>	<b>6.90 (11)</b>	<b>12.55 (2)</b>	<b>12.18 (1)</b>	<b>-</b>
<i>MSCI AC World ex USA Index (Net)</i>	<i>9.75 (61)</i>	<i>15.62 (68)</i>	<i>1.55 (68)</i>	<i>7.08 (72)</i>	<i>6.33 (66)</i>	<i>3.83 (66)</i>

# Fairfax County Public Schools

## Calendar Year Performance

	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Tier I - Target Date										
T. Rowe Price Retirement I 2005 I	-13.51 (59)	8.18 (16)	11.51 (14)	15.16 (20)	-3.12 (53)	10.74 (18)	6.69 (29)	-	-	-
<i>T. Rowe Price Retirement 2005 Index</i>	<i>-13.48 (58)</i>	<i>8.12 (17)</i>	<i>12.00 (10)</i>	<i>14.88 (23)</i>	<i>-2.58 (34)</i>	<i>10.12 (30)</i>	<i>5.84 (44)</i>	<i>-0.10 (21)</i>	<i>5.48 (30)</i>	<i>9.86 (26)</i>
T. Rowe Price Retirement I 2010 I	-13.86 (90)	8.97 (4)	12.06 (5)	16.31 (5)	-3.56 (77)	11.82 (7)	7.18 (26)	-	-	-
<i>T. Rowe Price Retirement 2010 Index</i>	<i>-13.91 (91)</i>	<i>8.96 (5)</i>	<i>12.58 (1)</i>	<i>16.05 (8)</i>	<i>-3.02 (34)</i>	<i>11.20 (17)</i>	<i>6.27 (58)</i>	<i>-0.17 (24)</i>	<i>5.77 (25)</i>	<i>12.00 (13)</i>
T. Rowe Price Retirement I 2015 I	-14.17 (58)	9.74 (12)	12.81 (8)	17.55 (4)	-4.09 (69)	13.52 (11)	7.25 (34)	-	-	-
<i>T. Rowe Price Retirement 2015 Index</i>	<i>-14.24 (62)</i>	<i>9.73 (12)</i>	<i>13.05 (7)</i>	<i>17.43 (5)</i>	<i>-3.58 (40)</i>	<i>12.87 (21)</i>	<i>6.91 (39)</i>	<i>-0.28 (29)</i>	<i>6.30 (24)</i>	<i>14.97 (8)</i>
T. Rowe Price Retirement I 2020 I	-14.46 (61)	10.60 (9)	13.31 (24)	19.45 (3)	-4.82 (70)	15.90 (1)	7.57 (16)	-	-	-
<i>T. Rowe Price Retirement 2020 Index</i>	<i>-14.59 (65)</i>	<i>10.64 (6)</i>	<i>13.49 (17)</i>	<i>19.39 (4)</i>	<i>-4.38 (51)</i>	<i>14.87 (17)</i>	<i>7.51 (18)</i>	<i>-0.49 (30)</i>	<i>6.60 (14)</i>	<i>17.43 (12)</i>
T. Rowe Price Retirement I 2025 I	-15.46 (58)	12.04 (5)	14.62 (17)	21.15 (3)	-5.54 (65)	17.82 (1)	7.56 (26)	-	-	-
<i>T. Rowe Price Retirement 2025 Index</i>	<i>-15.36 (55)</i>	<i>12.27 (4)</i>	<i>14.62 (17)</i>	<i>21.36 (1)</i>	<i>-5.00 (45)</i>	<i>16.68 (14)</i>	<i>8.21 (20)</i>	<i>-0.56 (24)</i>	<i>7.06 (8)</i>	<i>20.01 (11)</i>
T. Rowe Price Retirement I 2030 I	-16.86 (78)	13.75 (11)	15.92 (10)	22.68 (5)	-6.16 (49)	19.52 (1)	7.77 (43)	-	-	-
<i>T. Rowe Price Retirement 2030 Index</i>	<i>-16.39 (54)</i>	<i>14.23 (4)</i>	<i>15.65 (15)</i>	<i>23.06 (1)</i>	<i>-5.67 (42)</i>	<i>18.28 (25)</i>	<i>8.80 (14)</i>	<i>-0.73 (26)</i>	<i>7.29 (5)</i>	<i>22.13 (14)</i>
T. Rowe Price Retirement I 2035 I	-17.85 (79)	15.28 (18)	17.04 (12)	23.90 (15)	-6.81 (48)	21.03 (7)	7.68 (60)	-	-	-
<i>T. Rowe Price Retirement 2035 Index</i>	<i>-17.14 (58)</i>	<i>16.07 (5)</i>	<i>16.50 (19)</i>	<i>24.46 (9)</i>	<i>-6.20 (27)</i>	<i>19.58 (31)</i>	<i>9.21 (15)</i>	<i>-0.87 (34)</i>	<i>7.37 (6)</i>	<i>23.76 (29)</i>
T. Rowe Price Retirement I 2040 I	-18.72 (88)	16.58 (27)	18.16 (12)	24.89 (20)	-7.21 (40)	22.11 (3)	7.75 (68)	-	-	-
<i>T. Rowe Price Retirement 2040 Index</i>	<i>-17.66 (51)</i>	<i>17.75 (5)</i>	<i>17.24 (21)</i>	<i>25.55 (11)</i>	<i>-6.61 (25)</i>	<i>20.62 (34)</i>	<i>9.58 (11)</i>	<i>-1.01 (34)</i>	<i>7.43 (5)</i>	<i>24.73 (35)</i>
T. Rowe Price Retirement I 2045 I	-18.98 (92)	17.43 (36)	18.72 (7)	25.52 (27)	-7.51 (40)	22.55 (10)	7.75 (71)	-	-	-
<i>T. Rowe Price Retirement 2045 Index</i>	<i>-17.92 (46)</i>	<i>18.76 (10)</i>	<i>17.60 (24)</i>	<i>26.33 (10)</i>	<i>-6.96 (21)</i>	<i>21.02 (47)</i>	<i>9.70 (23)</i>	<i>-0.98 (34)</i>	<i>7.43 (6)</i>	<i>24.73 (39)</i>
T. Rowe Price Retirement I 2050 I	-19.09 (87)	17.54 (47)	18.72 (7)	25.57 (39)	-7.51 (30)	22.55 (12)	7.75 (75)	-	-	-

Returns for periods greater than one year are annualized.  
Returns are expressed as percentages.



# Fairfax County Public Schools

## Calendar Year Performance

	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
<i>T. Rowe Price Retirement 2050 Index</i>	-17.98 (45)	18.91 (11)	17.62 (25)	26.33 (14)	-6.96 (10)	21.02 (54)	9.70 (19)	-0.98 (31)	7.43 (6)	24.73 (36)
T. Rowe Price Retirement I 2055 I	-19.12 (92)	17.57 (46)	18.68 (8)	25.52 (39)	-7.50 (29)	22.57 (11)	7.65 (77)	-	-	-
<i>T. Rowe Price Retirement 2055 Index</i>	-18.00 (45)	18.91 (11)	17.62 (25)	26.33 (14)	-6.96 (10)	21.02 (54)	9.70 (19)	-0.98 (31)	7.43 (6)	24.73 (36)
T. Rowe Price Retirement I 2060 I	-19.10 (81)	17.55 (54)	18.79 (1)	25.48 (-)	-7.44 (-)	22.53 (-)	7.37 (-)	-	-	-
<i>T. Rowe Price Retirement 2060 Index</i>	-18.00 (31)	18.90 (22)	17.62 (29)	26.33 (-)	-6.96 (-)	21.02 (-)	9.70 (-)	-0.98 (-)	-	-
T. Rowe Price Retirement I 2065 I	-19.09 (80)	18.52 (30)	-	-	-	-	-	-	-	-
<i>T. Rowe Price Retirement 2065 Index</i>	-18.02 (32)	19.65 (17)	-	-	-	-	-	-	-	-
Tier II - Passive Core										
Vanguard Total Bond Market	-13.15 (37)	-1.65 (66)	7.74 (64)	8.73 (59)	-0.01 (25)	3.57 (63)	2.61 (67)	0.41 (49)	5.91 (47)	-2.13 (75)
<i>Blmbg. U.S. Aggregate</i>	-13.01 (30)	-1.55 (62)	7.51 (72)	8.72 (61)	0.01 (24)	3.54 (63)	2.65 (67)	0.55 (36)	5.97 (39)	-2.02 (68)
iShares S&P 500 Index	-18.13 (21)	28.65 (34)	18.43 (12)	31.43 (25)	-4.38 (8)	21.77 (22)	11.92 (15)	1.35 (15)	13.61 (13)	32.21 (34)
<i>S&amp;P 500 Index</i>	-18.11 (7)	28.71 (3)	18.40 (23)	31.49 (8)	-4.38 (8)	21.83 (4)	11.96 (10)	1.38 (9)	13.69 (1)	32.39 (4)
Vanguard Total International Stock Mrkt Index	-15.98 (61)	8.68 (81)	11.28 (27)	21.56 (65)	-14.39 (50)	27.55 (20)	4.70 (14)	-4.24 (70)	-4.15 (31)	15.15 (81)
<i>Vanguard Spliced Total International Stock Index</i>	-16.10 (64)	8.84 (81)	11.24 (28)	21.80 (62)	-14.61 (55)	27.41 (21)	4.72 (14)	-4.29 (70)	-3.39 (23)	15.76 (80)
Vanguard Extended Market Index	-26.46 (79)	12.47 (80)	32.23 (23)	28.05 (45)	-9.35 (51)	18.12 (52)	16.15 (46)	-3.24 (52)	7.56 (32)	38.42 (35)
<i>Vanguard Spliced Extended Market Index</i>	-26.54 (79)	12.35 (80)	32.17 (23)	27.95 (47)	-9.57 (52)	18.11 (52)	15.95 (47)	-3.35 (54)	7.50 (34)	38.24 (35)
Tier III - Active Core										
Great West Fixed Fund 457(b)	1.67 (49)	1.64 (26)	1.77 (73)	-	-	-	-	-	-	-
<i>90 Day U.S. Treasury Bill</i>	1.46 (65)	0.05 (98)	0.67 (100)	2.28 (48)	1.87 (59)	0.86 (99)	0.25 (100)	0.03 (100)	0.04 (100)	0.05 (95)
Great West Fixed Fund 403(b)	1.56 (54)	1.64 (26)	1.93 (55)	0.66 (100)	-	-	-	-	-	-

Returns for periods greater than one year are annualized.  
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# Fairfax County Public Schools

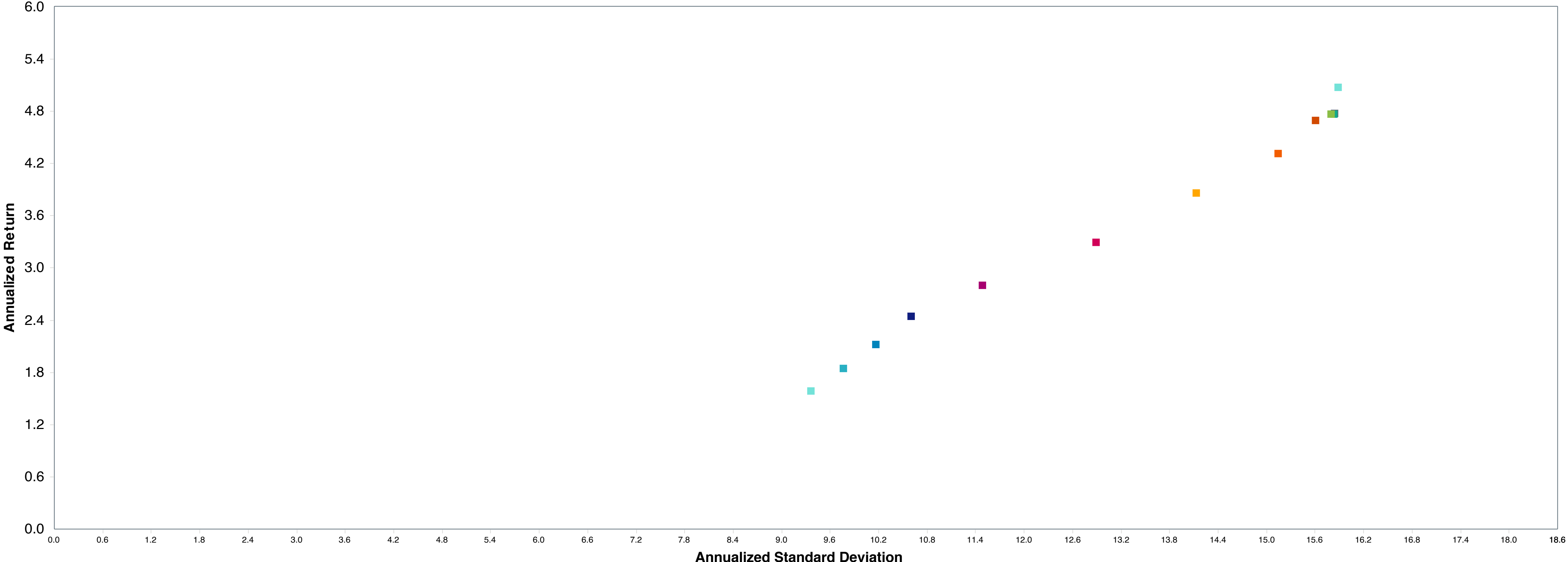
## Calendar Year Performance

	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
<i>90 Day U.S. Treasury Bill</i>	1.46 (65)	0.05 (98)	0.67 (100)	2.28 (48)	1.87 (59)	0.86 (99)	0.25 (100)	0.03 (100)	0.04 (100)	0.05 (95)
<b>AIG Fixed Fund</b>	1.78 (30)	1.72 (21)	1.97 (54)	2.24 (55)	2.22 (15)	-	-	-	-	-
<i>90 Day U.S. Treasury Bill</i>	1.46 (65)	0.05 (98)	0.67 (100)	2.28 (48)	1.87 (59)	0.86 (99)	0.25 (100)	0.03 (100)	0.04 (100)	0.05 (95)
<b>PIMCO Inflation Response Multi-Asset Inst</b>	-5.12 (12)	13.83 (37)	9.36 (42)	10.03 (83)	-3.71 (24)	8.59 (74)	10.53 (26)	-6.77 (78)	1.57 (76)	-9.29 (100)
<i>PIMCO IRMA Benchmark</i>	-6.13 (15)	11.22 (50)	5.85 (63)	10.30 (82)	-3.86 (25)	5.08 (92)	6.76 (55)	-7.47 (83)	-0.34 (86)	-8.89 (100)
<b>Baird Core Plus Bond</b>	-12.87 (38)	-1.02 (65)	8.80 (49)	10.11 (36)	-0.51 (40)	4.65 (56)	4.73 (42)	0.14 (45)	6.59 (25)	-1.32 (68)
<i>Blmbg. U.S. Universal Index</i>	-12.99 (42)	-1.10 (70)	7.58 (75)	9.29 (60)	-0.25 (34)	4.09 (74)	3.91 (55)	0.43 (26)	5.56 (46)	-1.35 (68)
<b>Boston Trust SMID Cap Fund</b>	-12.04 (37)	30.46 (24)	8.26 (58)	26.74 (41)	-5.62 (9)	18.39 (28)	20.16 (27)	-2.46 (37)	4.14 (74)	30.67 (94)
<i>Russell 2500 Index</i>	-18.37 (88)	18.18 (93)	19.99 (9)	27.77 (27)	-10.00 (32)	16.81 (46)	17.59 (50)	-2.90 (42)	7.07 (51)	36.80 (37)
<b>GQG International Opportunities Fund</b>	-11.03 (20)	12.45 (31)	15.86 (29)	27.59 (20)	-6.02 (2)	31.75 (11)	-	-	-	-
<i>MSCI AC World ex USA Index (Net)</i>	-16.00 (53)	7.82 (76)	10.65 (46)	21.51 (59)	-14.20 (46)	27.19 (39)	4.50 (25)	-5.66 (83)	-3.87 (34)	15.29 (86)

Returns for periods greater than one year are annualized.  
Returns are expressed as percentages.

# Risk Profile - Target Date

3 Years Ending December 31, 2023



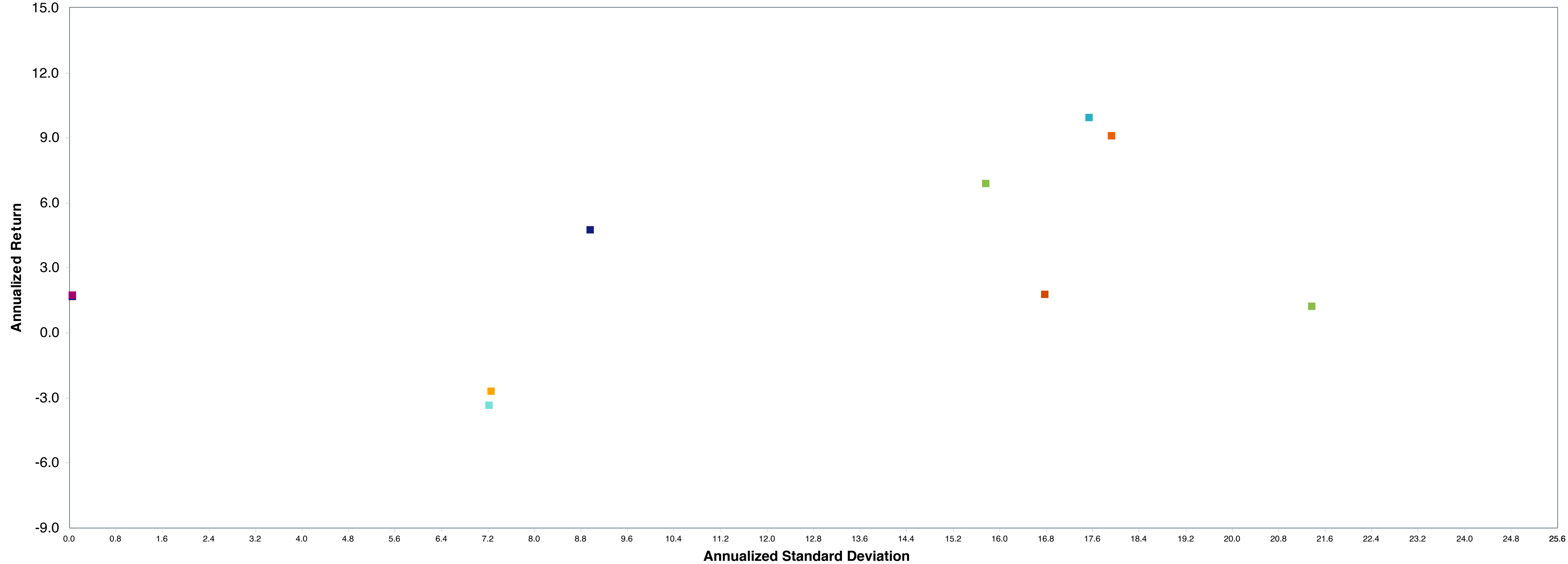
- T. Rowe Price Retirement I 2005 I
- T. Rowe Price Retirement I 2010 I
- T. Rowe Price Retirement I 2015 I
- T. Rowe Price Retirement I 2020 I
- T. Rowe Price Retirement I 2025 I
- T. Rowe Price Retirement I 2030 I
- T. Rowe Price Retirement I 2035 I
- T. Rowe Price Retirement I 2040 I
- T. Rowe Price Retirement I 2045 I
- T. Rowe Price Retirement I 2050 I
- T. Rowe Price Retirement I 2055 I
- T. Rowe Price Retirement I 2060 I
- T. Rowe Price Retirement I 2065 I
- 90 Day U.S. Treasury Bill

Calculation based on monthly periodicity.



# Risk Profile - Tier II & Tier III

3 Years Ending December 31, 2023



- Vanguard Total Bond Market
- iShares S&P 500 Index
- Great West Fixed Fund 457(b)
- Great West Fixed Fund 403(b)
- PIMCO Inflation Response Multi-Asset Inst
- Baird Core Plus Bond
- Boston Trust SMID Cap Fund
- GQG International Opportunities Fund
- Vanguard Total International Stock Mrkt Index
- Vanguard Extended Market Index
- 90 Day U.S. Treasury Bill
- 90 Day U.S. Treasury Bill

Calculation based on monthly periodicity.



# Fee Analysis

As of December 31, 2023

	Vehicle Type <sup>1</sup>	Ticker	Universe Name <sup>3</sup>	Net Expense Ratio (%) <sup>2</sup>	Revenue Share (%)	Effective Net Expense (%)	Peer Group Fee Range (%)			
							25th	50th	75th	Population
<b>Total Fairfax Public Schools Plans</b>							-	-	-	-
<b>Tier I - Target Date</b>							-	-	-	-
T. Rowe Price Retirement I 2005 I	MF	TRPFX	Aon Target Date Today Active (MF)	0.340	0.000	0.340	0.35	0.45	0.50	14
T. Rowe Price Retirement I 2010 I	MF	TRPAX	Aon Target Date 2010 Active (MF)	0.340	0.000	0.340	0.27	0.34	0.40	15
T. Rowe Price Retirement I 2015 I	MF	TRFGX	Aon Target Date 2015 Active (MF)	0.350	0.000	0.350	0.30	0.36	0.50	10
T. Rowe Price Retirement I 2020 I	MF	TRBRX	Aon Target Date 2020 Active (MF)	0.370	0.000	0.370	0.34	0.39	0.52	14
T. Rowe Price Retirement I 2025 I	MF	TRPHX	Aon Target Date 2025 Active (MF)	0.380	0.000	0.380	0.35	0.40	0.49	17
T. Rowe Price Retirement I 2030 I	MF	TRPCX	Aon Target Date 2030 Active (MF)	0.400	0.000	0.400	0.38	0.43	0.51	18
T. Rowe Price Retirement I 2035 I	MF	TRPJX	Aon Target Date 2035 Active (MF)	0.420	0.000	0.420	0.41	0.42	0.52	17
T. Rowe Price Retirement I 2040 I	MF	TRPDX	Aon Target Date 2040 Active (MF)	0.430	0.000	0.430	0.42	0.45	0.54	18
T. Rowe Price Retirement I 2045 I	MF	TRPKX	Aon Target Date 2045 Active (MF)	0.440	0.000	0.440	0.44	0.45	0.53	17
T. Rowe Price Retirement I 2050 I	MF	TRPMX	Aon Target Date 2050 Active (MF)	0.450	0.000	0.450	0.44	0.45	0.54	18
T. Rowe Price Retirement I 2055 I	MF	TRPNX	Aon Target Date 2055 Active (MF)	0.460	0.000	0.460	0.45	0.46	0.52	16
T. Rowe Price Retirement I 2060 I	MF	TRPLX	Aon Target Date 2060+ Active (MF)	0.460	0.000	0.460	0.45	0.46	0.54	35
T. Rowe Price Retirement I 2065 I	MF	TRFKX	Aon Target Date 2060+ Active (MF)	0.460	0.000	0.460	0.45	0.46	0.54	35
<b>Tier II - Passive Core</b>							-	-	-	-
Vanguard Total Bond Market	MF		eA US Passive Core Fixed Income (MF)	0.040	0.000	0.040	0.04	0.10	0.11	14
iShares S&P 500 Index	MF	WFSPX	eA US Passive S&P 500 Equity (MF)	0.030	0.000	0.030	0.05	0.10	0.17	22
Vanguard Extended Market Index	MF	VIEIX	eA US Passive Mid Cap Equity (MF)	0.050	0.000	0.050	0.05	0.15	0.19	22
Vanguard Total International Stock Mrkt Index	MF		eA ACWI ex-US Passive Equity (MF)	0.110	0.000	0.110	0.11	0.20	0.32	15
<b>Tier III - Active Core</b>							-	-	-	-
Great West Fixed Fund	MF		Aon Stable Value Peer Group – Total Fee including Wrap Fees	-	0.000	-	0.36	0.47	0.60	16
AIG Fixed Fund	MF		Aon Stable Value Peer Group – Total Fee including Wrap Fees	-	0.000	-	0.36	0.47	0.60	16
PIMCO Inflation Response Multi-Asset	MF	PIRMX	eA US TIPS / Inflation Fixed Income (MF)	0.820	0.000	0.820	0.30	0.38	0.46	25
Baird Core Plus Bond	MF	BCOIX	eA US Core Plus Fixed Income (MF)	0.300	0.000	0.300	0.40	0.46	0.50	90
Boston Trust SMID Cap Fund	MF	BTSMX	eA US Small-Mid Cap Core Equity (MF)	0.750	0.000	0.750	0.82	0.91	1.00	38
GQG International Opportunities Fund	MF	GSIX	eA ACWI ex-US All Cap Equity (MF)	0.750	0.000	0.750	0.75	0.85	0.97	54

Important Note: The investment fee analysis reported in the table above measures only the relative fee level of your current plan offerings as compared to fee medians from style, size, and vehicle-specific peer universes, which Aon Investments believes is an appropriate comparison. Determining whether an investment's expense is reasonable depends on a variety of factors including the level of returns achieved and the method with which administration and operational expenses are paid. Understanding and evaluating the total cost of plan operations, including both investment and administration fees is a critical analysis that should be completed periodically.

<sup>1</sup>Vehicle Type Definitions: "MF" = Mutual Fund, "CF" = Collective Investment Trust, "SA" = Separate Account, "SG" = Group Annuity

<sup>2</sup>Expense Ratio is intended to represent a fund's total expense ratio which may include investment management fees, 12b-1 fees, custodial fees, trustee fees, revenue sharing components and/or charges for fund or plan administration.

<sup>3</sup>Fee universes are provided and calculated by eVestment Alliance, as of July 31, 2023. Fund expense information has been sourced from eVestment for all asset classes except the stable value and target date fund universes, which uses Morningstar databases. Since fund expense ratios do not change frequently, Aon Investments believes this study to be a relevant comparison for up to a year, at which time it will be updated. For complete information on methodologies, contact your Aon Investments consultant.

# Ratings Report Card

## FCPS Plans

Fund	Aon Rating
<b>Tier I – Mixed Asset</b>	
T. Rowe Price Retirement Trust	Buy
<b>Tier II – Passive</b>	
Vanguard Total Bond Market Index	Buy
iShares S&P 500 Index	Buy
Vanguard International Stock Index	Buy
Vanguard Extended Market Index	Buy
<b>Tier III – Active</b>	
Great West Fixed Fund	Buy
AIG Fixed Fund	Buy
PIMCO Inflation Response Multi-Asset	Buy
Baird Core Plus Bond	Buy
Boston Trust SMID Cap Fund	Buy
GQG International Opportunities Fund	Buy

Many factors are considered when selecting and monitoring the investment options including, but not limited to:

- **Business** – Ownership structure, profitability, stability of organization, client, asset base
- **Investment Staff** – Quality of personnel, depth of resources, turnover, succession planning
- **Investment Process** – Skilled investment decisions, clear and repeatable processes, understanding of competitive advantages
- **Risk Management** – Embedded in broader investment process, independently verified
- **Performance** – Risk-adjusted returns, compared to appropriate benchmarks and peer groups, measured over multiple periods
- **Operational Due Diligence** – Operational controls, valuation of assets, independent directors
- **Terms & Conditions** – Investment expenses should be reasonable for the value provided and benchmarked for reasonability based on the specific type of investment strategy being evaluated
- **ESG**- Degree to which the team is aware of potential ESG risks and has taken steps to identify, evaluate and mitigate these risks



<sup>1</sup> Qualified rating may be assigned based on a Qualitative **or** Quantitative Review

# Fairfax County Public Schools 457(b) Plan Demographic Information

## As of December 31, 2023

Participants per Investment Option	
Investment Option	Participants
Great West Fixed Fund	262
PIMCO Inflation Response MultiAsst	22
T. Rowe Price Retirement I 2005 I	19
T. Rowe Price Retirement I 2010 I	8
T. Rowe Price Retirement I 2015 I	11
T. Rowe Price Retirement I 2020 I	33
T. Rowe Price Retirement I 2025 I	114
T. Rowe Price Retirement I 2030 I	149
T. Rowe Price Retirement I 2035 I	219
T. Rowe Price Retirement I 2040 I	156
T. Rowe Price Retirement I 2045 I	143
T. Rowe Price Retirement I 2050 I	93
T. Rowe Price Retirement I 2055 I	81
T. Rowe Price Retirement I 2060 I	2
T. Rowe Price Retirement I 2065 I	1
iShares S&P 500 Index	570
Boston Trust SMID Cap Fund	327
Baird Core Plus Bond fund	202
GQG International Opportunities Fund	306

Participants with Balance in One Investment Option	
Investment Option	Participants
Great West Fixed Fund	100
PIMCO Inflation Response MultiAsst	10
T. Rowe Price Retirement I 2005 I	8
T. Rowe Price Retirement I 2010 I	7
T. Rowe Price Retirement I 2015 I	14
T. Rowe Price Retirement I 2020 I	23
T. Rowe Price Retirement I 2025 I	25
T. Rowe Price Retirement I 2030 I	37
T. Rowe Price Retirement I 2035 I	22
T. Rowe Price Retirement I 2040 I	33
T. Rowe Price Retirement I 2045 I	24
T. Rowe Price Retirement I 2050 I	23
T. Rowe Price Retirement I 2055 I	15
iShares S&P 500 Index	146
Boston Trust SMID Cap Fund	102
Baird Core Plus Bond fund	112
GQG International Opportunities Fund	97

Participants per Investment Option (Previous Line-up)	
Investment Option	Participants
Great West Portfolio	26
PIMCO Total Return	7
Vanguard Mid Cap Index	19
Baron Growth	10
Artisan International	10

Investment Options per Participant	
Investment Options	Participants
One	452
Two	166
Three	122
Four	131
Five	87
Six	102
Seven	19
Eight	6
More than Eight	12

Other Demographics	
Item	Result
Participation Rate	94.26%
Number of Participants with Account Balances	1,097
Average Deferral Rate	18.03%
Average Number of Funds per Participant	2.77
Average Account Balance	\$129,470.19



\*Information directly provided by Empower Retirement

# Fairfax County Public Schools 457(b) and 403(b) Plan Statistics

## As of December 31, 2023

	457(b)	403(b)	457(b) & 403(b)
<b>Contributions</b>			
Contributions December 2021	\$ 964,000	\$ 3.6 million	
Contributions January 2023	\$ 1,300,000	\$ 3.8 million	
Contributions January 2024	\$1,300,000	\$ 4.1 million	
<b>Assets</b>			
Assets December 31, 2021	\$340.0 million	\$1.2 billion	
Assets January 31, 2023	\$300.0 million	\$1.0 billion	
Assets January 31, 2024	\$335.0 million	\$1.1 billion	
<b>Number of Participants</b>			
Number of Participants December 2021	2362	13512	
Number of Participants January 2023	2350	13370	
Number of Participants January 2024	2272	13270	
<b>Average Contributions per Month &amp; Biweekly</b>			
December 2021	\$875/mo; \$206/biweek	\$ 660/mo; \$195/biweek	
December 2022	\$890/mo; \$245/biweek	\$ 687/mo; \$251/biweek	
December 2024	\$1,246/mo; \$232 biweek	\$ 979/mo; \$200/biweek	
<b>Number of Employees Currently Contributing</b>			
	1093/mo; 65/biweek	5181/mo; 748/biweek	
<b>Number of Employees Currently Contributing to both 457(b) and 403(b)</b>			<b>407</b>

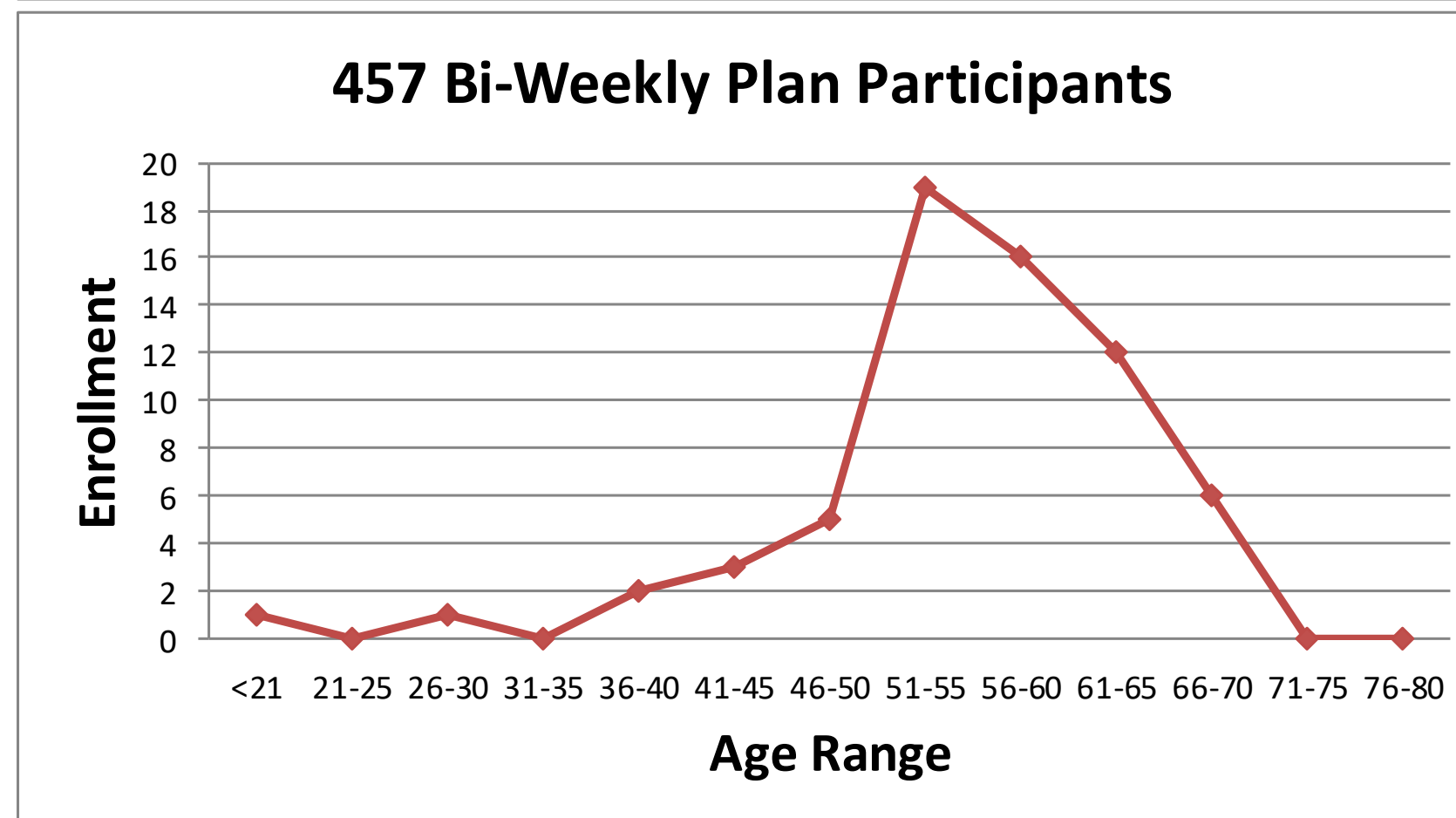
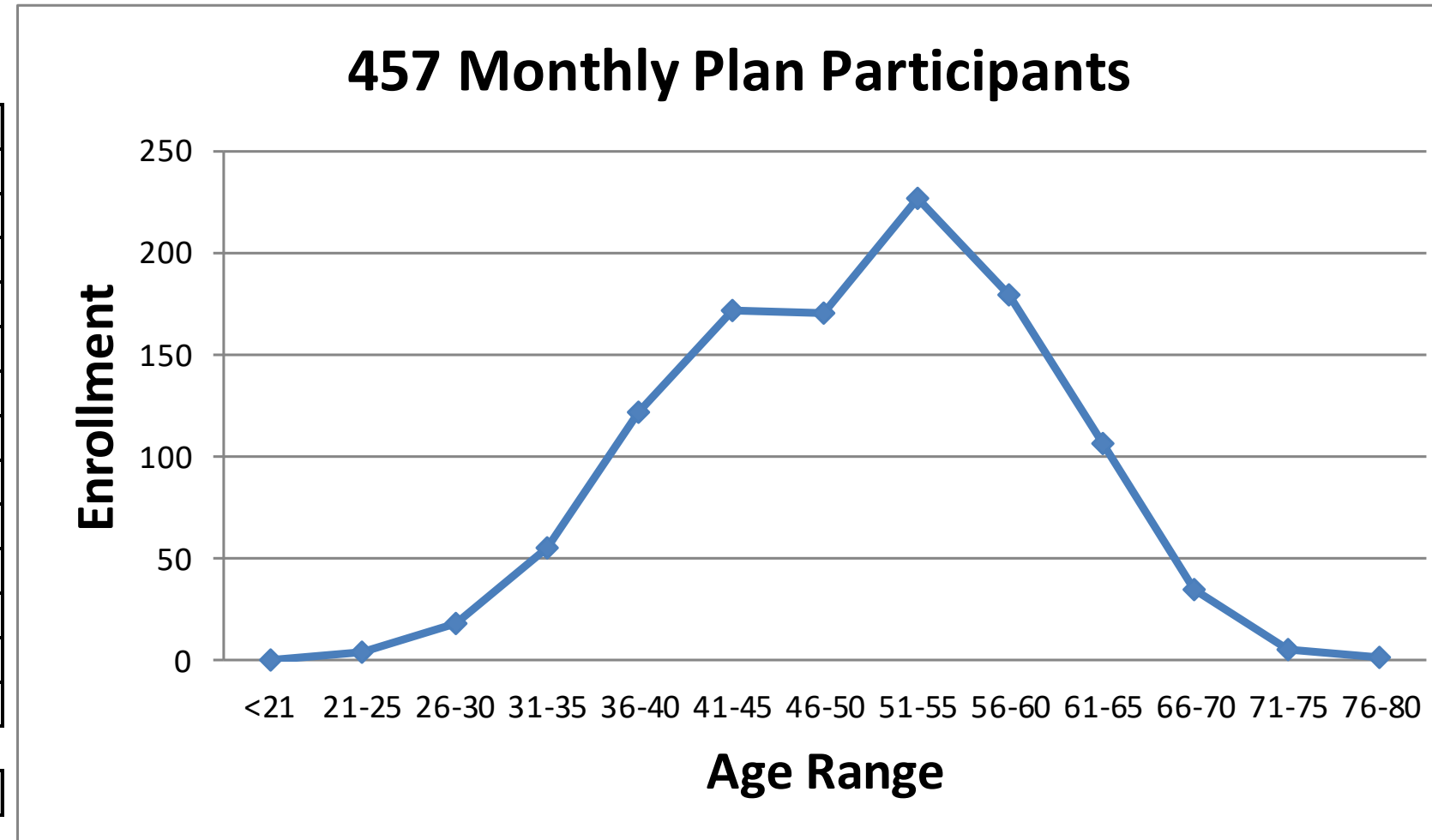


# Fairfax County Public Schools 457(b) Plan Enrollment

## As of December 31, 2023

### 457 Plan Participants

Age	Monthly	Bi-Weekly
<21	0	1
21-25	4	0
26-30	18	1
31-35	55	0
36-40	122	2
41-45	172	3
46-50	170	5
51-55	226	19
56-60	179	16
61-65	106	12
66-70	35	6
71-75	5	0
76-80	1	0
<b>Total</b>	<b>1093</b>	<b>65</b>



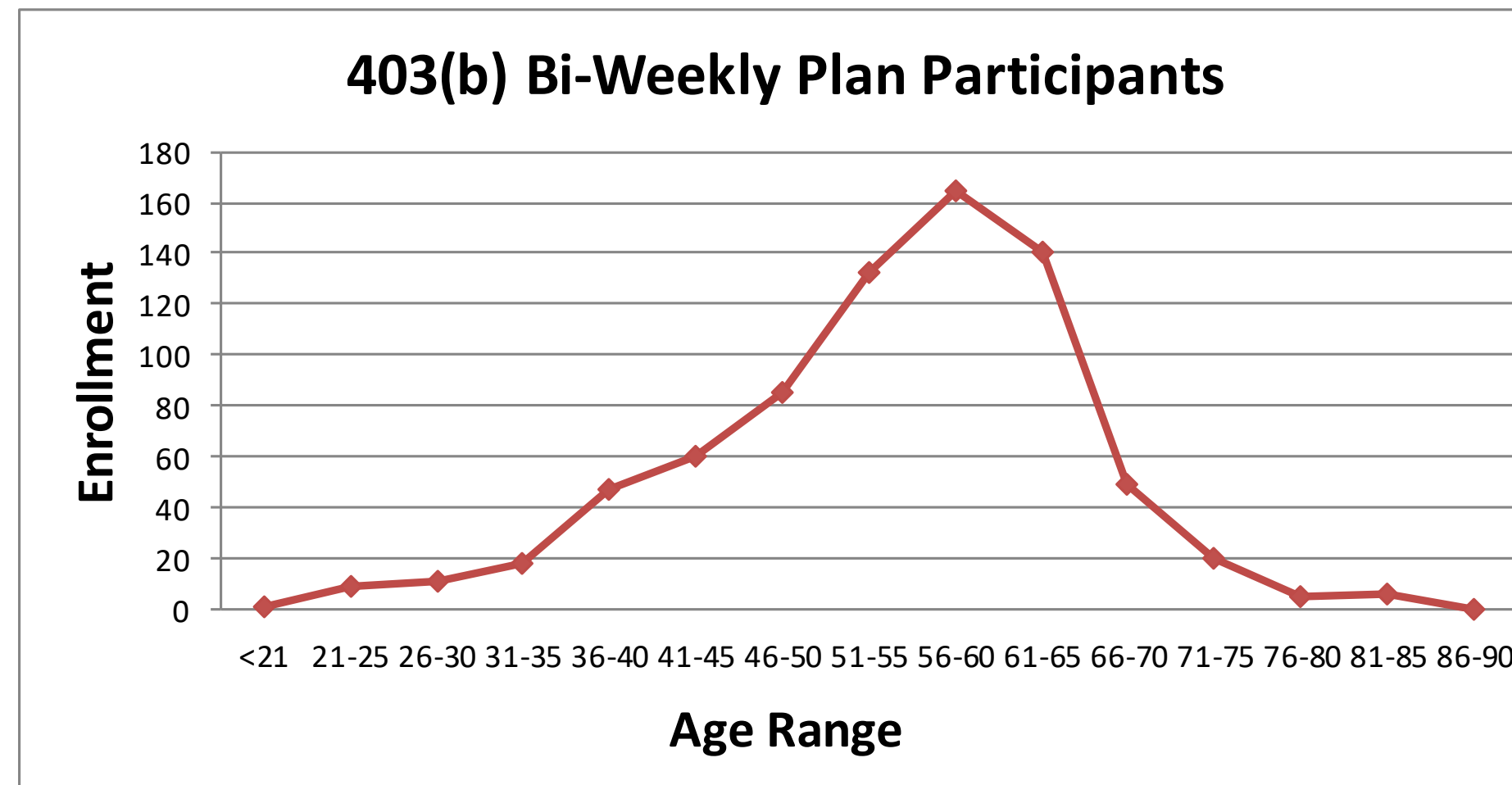
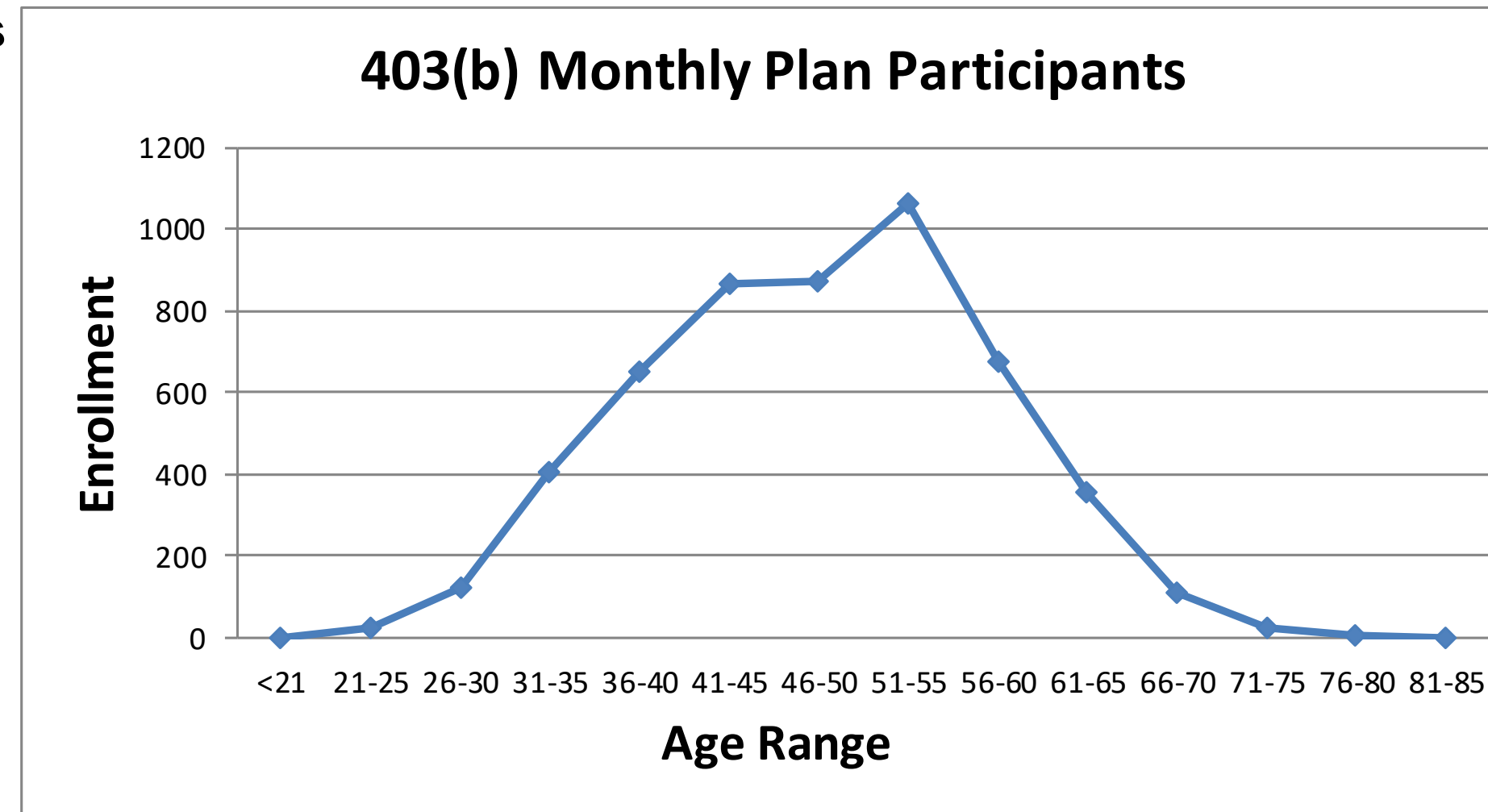
# Fairfax County Public Schools 403(b) Plan Enrollment

## As of December 31, 2023

### 403(b) Plan Participants

Age	Monthly	Bi-Weekly
<21	0	1
21-25	27	9
26-30	122	11
31-35	405	18
36-40	649	47
41-45	867	60
46-50	870	85
51-55	1065	132
56-60	677	165
61-65	358	140
66-70	109	49
71-75	26	20
76-80	5	5
81-85	1	6
86-90	0	0

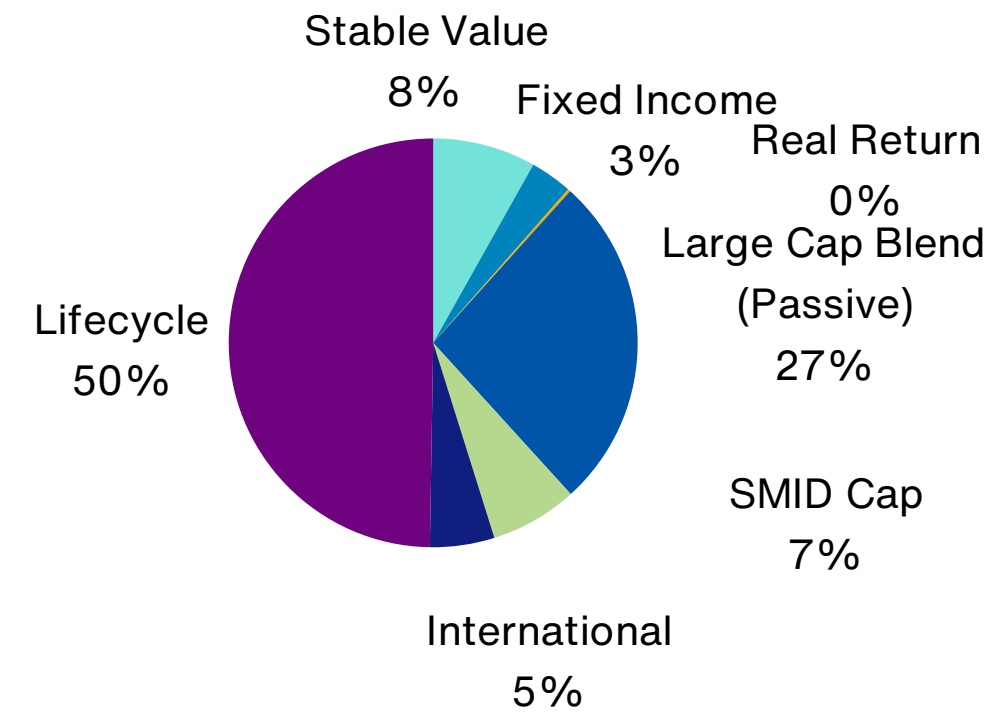
<b>Total</b>	<b>5181</b>	<b>748</b>
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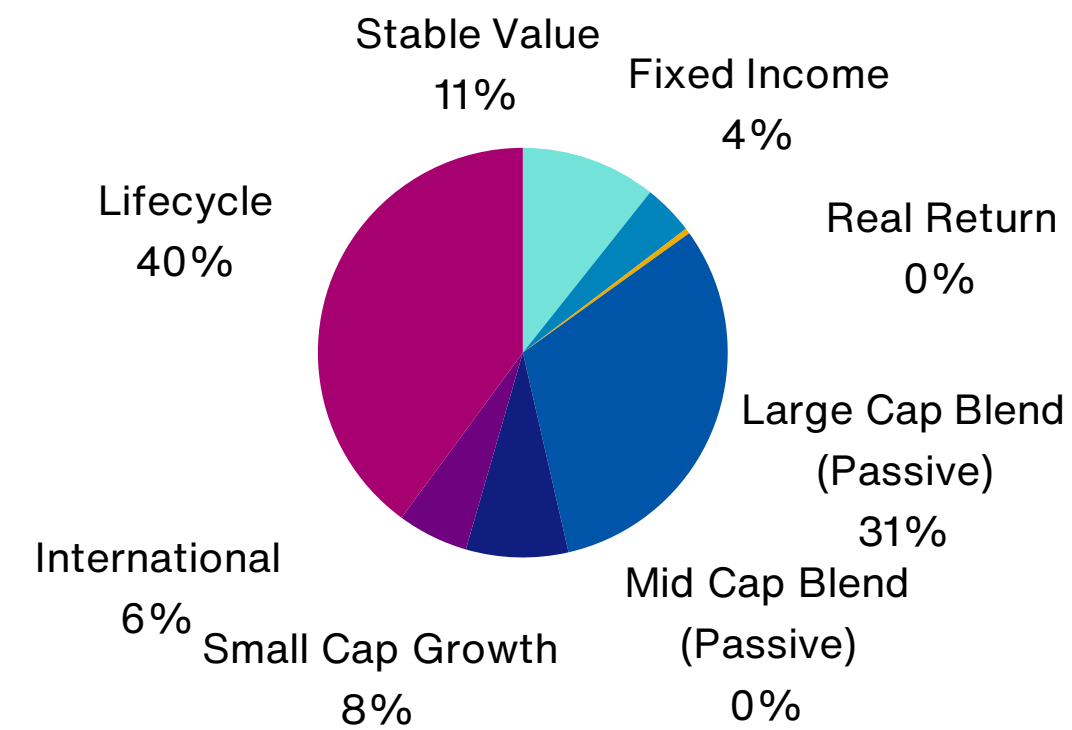
# Fairfax County Public Schools 457(b) Plan

## Contribution Analysis

4th Quarter 2023 Contribution Allocation



3rd Quarter 2023 Contribution Allocation



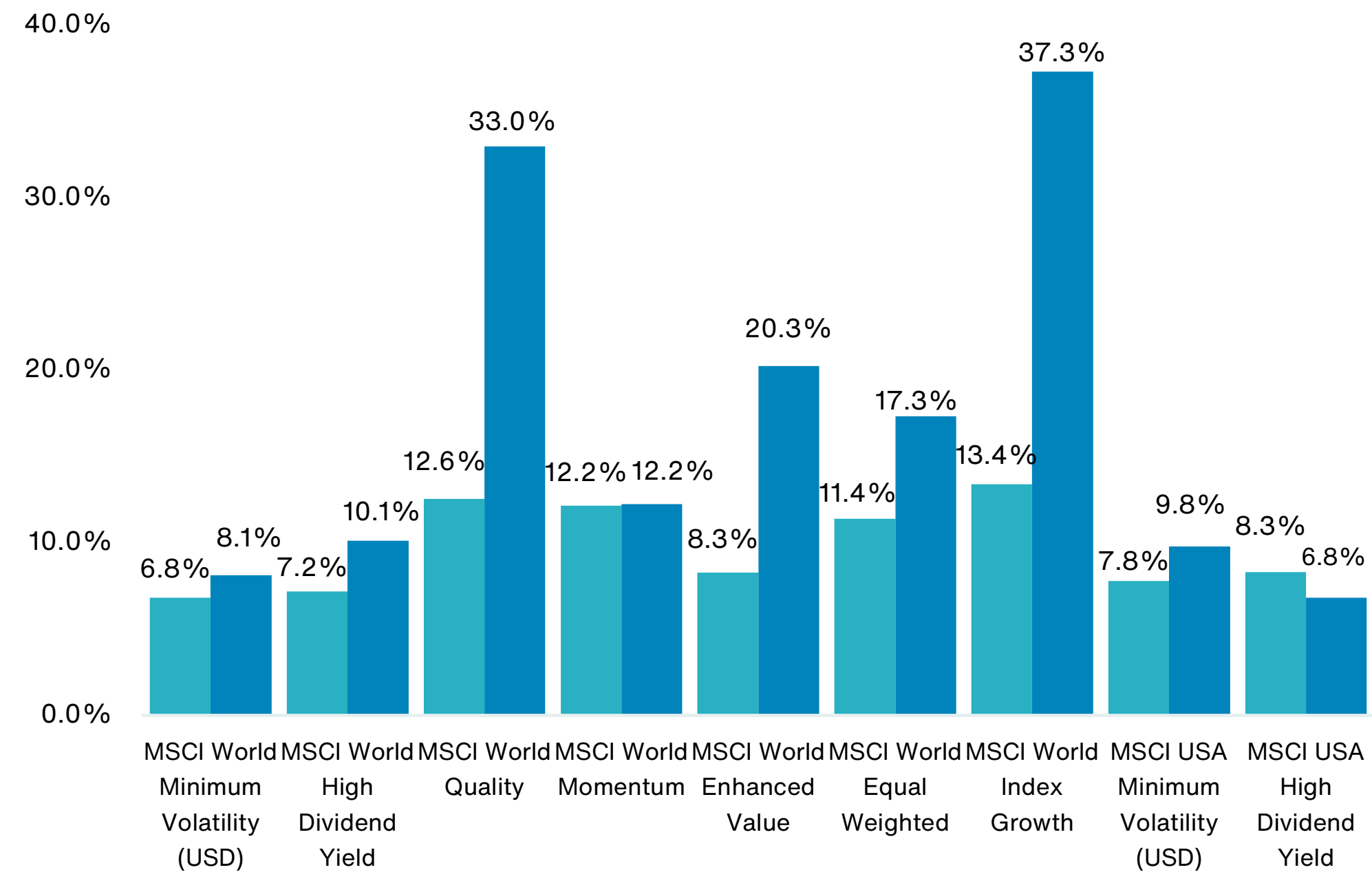
**Market Environment**



# Factor Indices

**SHORT TERM RETURNS AS OF 12/31/2023**

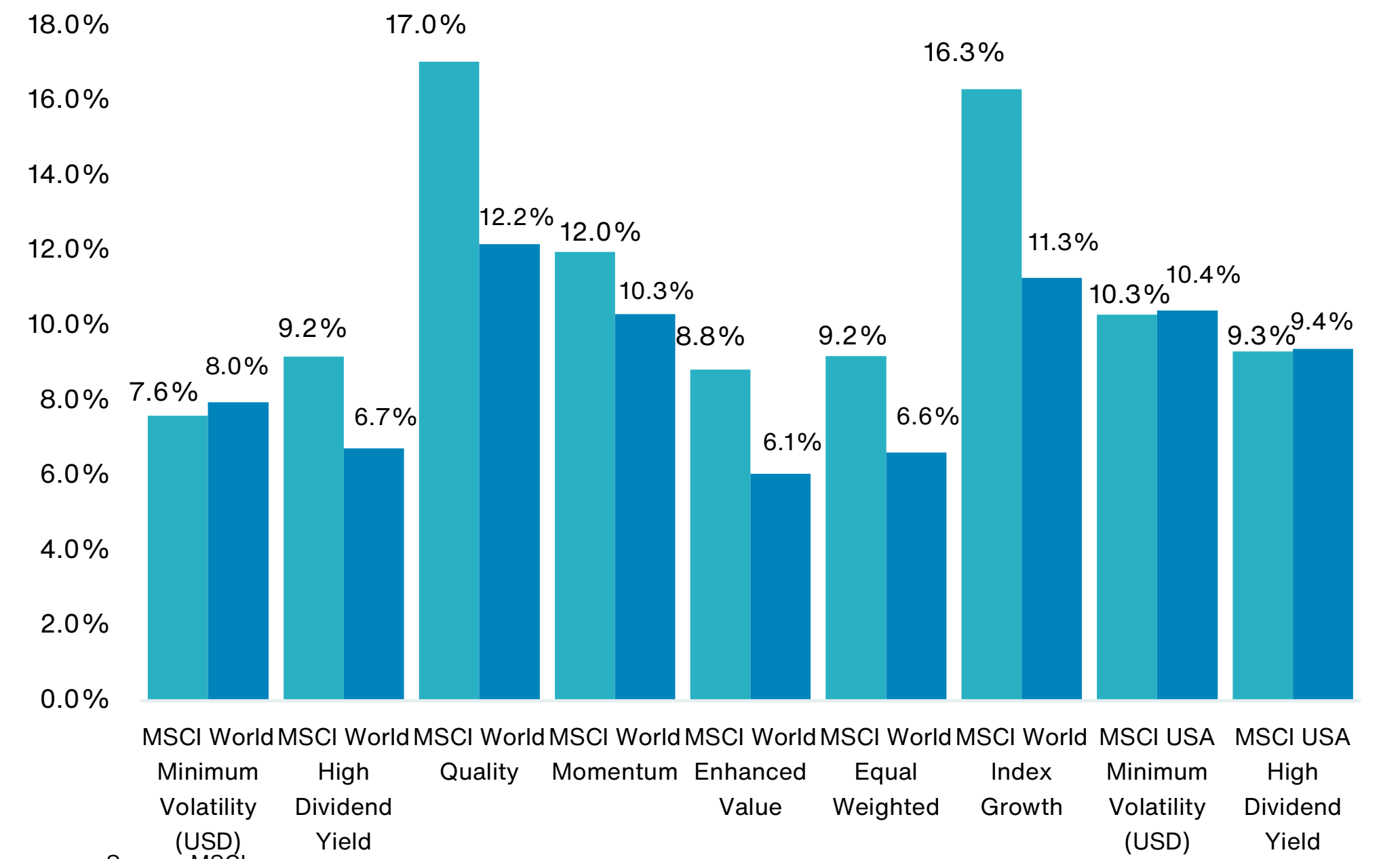
■ Fourth Quarter 2023  
■ YTD



Source: MSCI  
MSCI Indices show net total returns throughout this report.  
All other indices show gross total returns..

**LONG TERM ANNUALIZED RETURNS AS OF 12/31/2023**

■ Five-Year  
■ Ten-Year

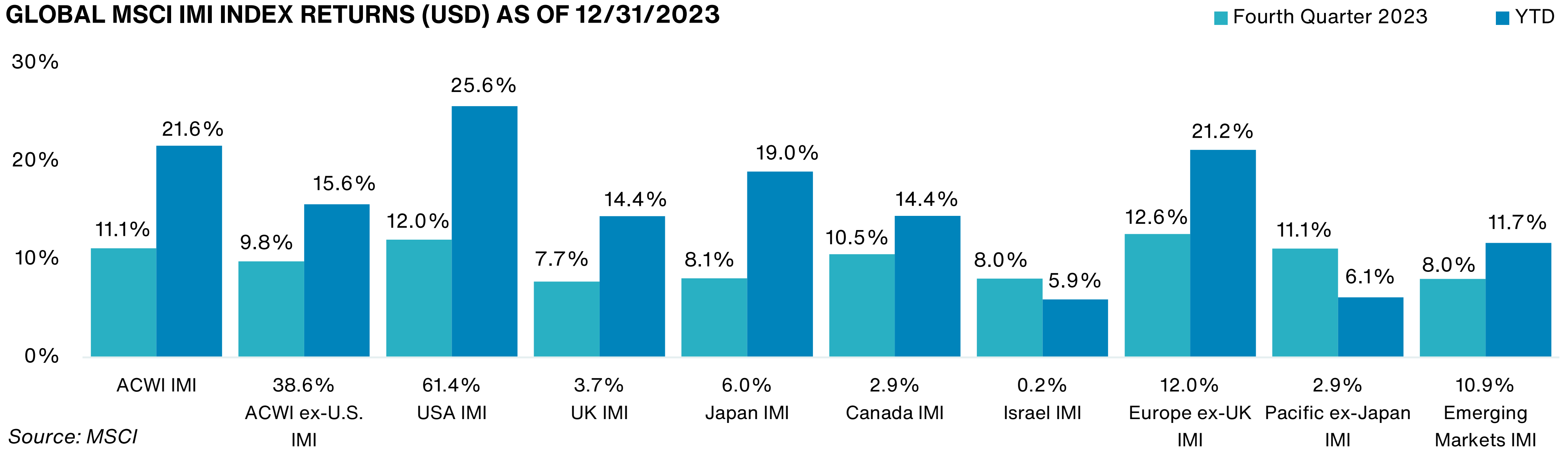


Source: MSCI  
MSCI Indices show net total returns throughout this report. All other indices show gross total returns..

**Past performance is no guarantee of future results.** Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect fees and expenses. Please see appendix for index definitions and other general disclosures.

# Global Equity Markets

**GLOBAL MSCI IMI INDEX RETURNS (USD) AS OF 12/31/2023**



Source: MSCI

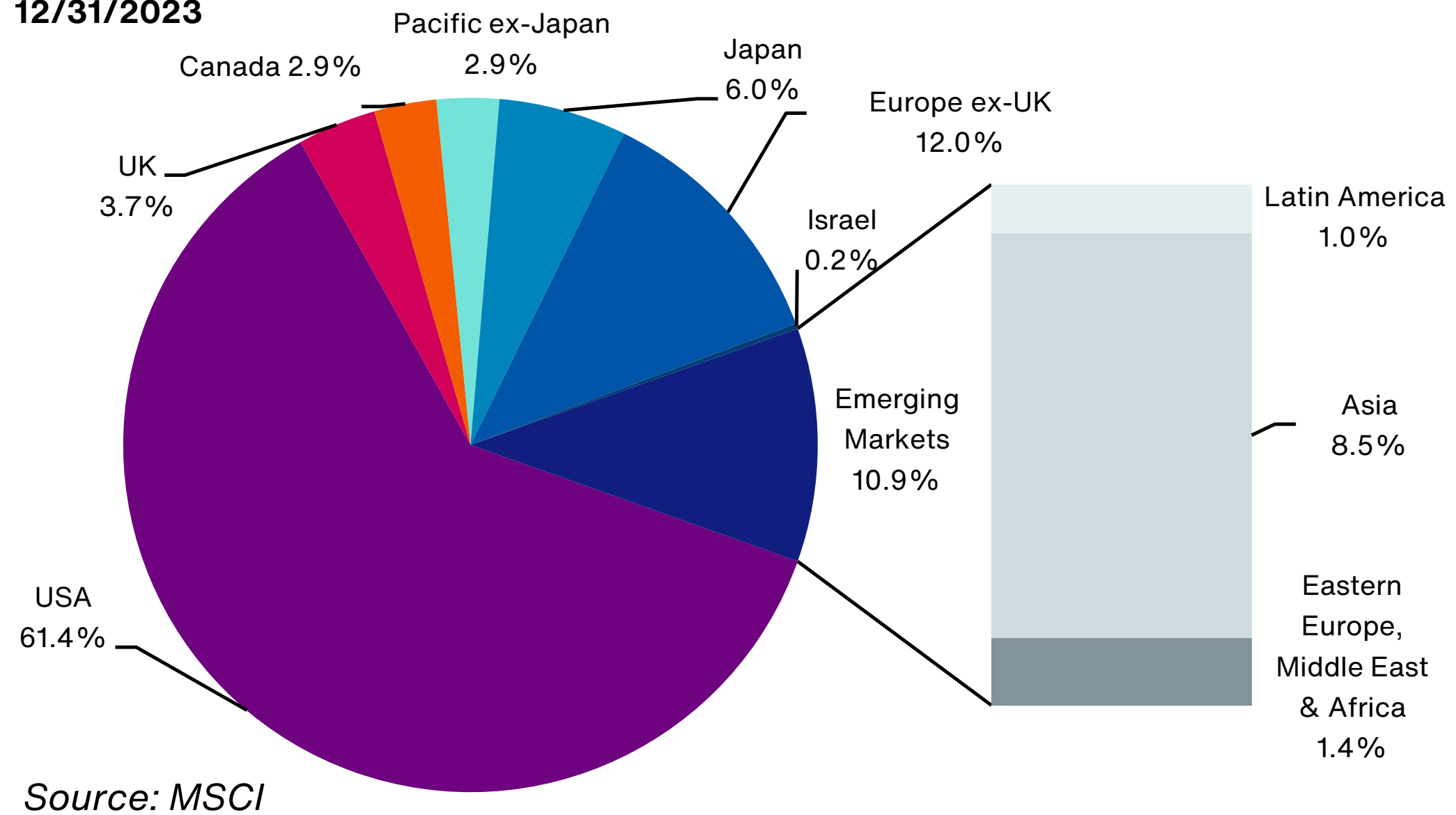
- In Q4 2023, global equity markets rose due to a strong rally in November and December as market participants anticipated a higher probability of interest rate cuts in 2024. The MSCI ACWI posted its strongest annual performance in USD terms, (22.8%) since 2019 (27.3%). Volatility fell sharply throughout the quarter as the CBOE Volatility Index (VIX) fell to 12.5 in Q4 from 17.5 in the previous quarter, well below its 20-year average of 19.1. The MSCI All Country World Investable Market Index (ACWI IMI) returned 11.1% for the quarter and was up 21.6% on the year.
- Across international markets, all regions posted positive returns. U.S. equities posted strong returns over the quarter and in 2023 with major contribution coming from the Information Technology sector.
- Europe ex-UK IMI equities were the best regional performer with a return of 12.6%. Economically sensitive sectors including Financials and Industrials outperformed.

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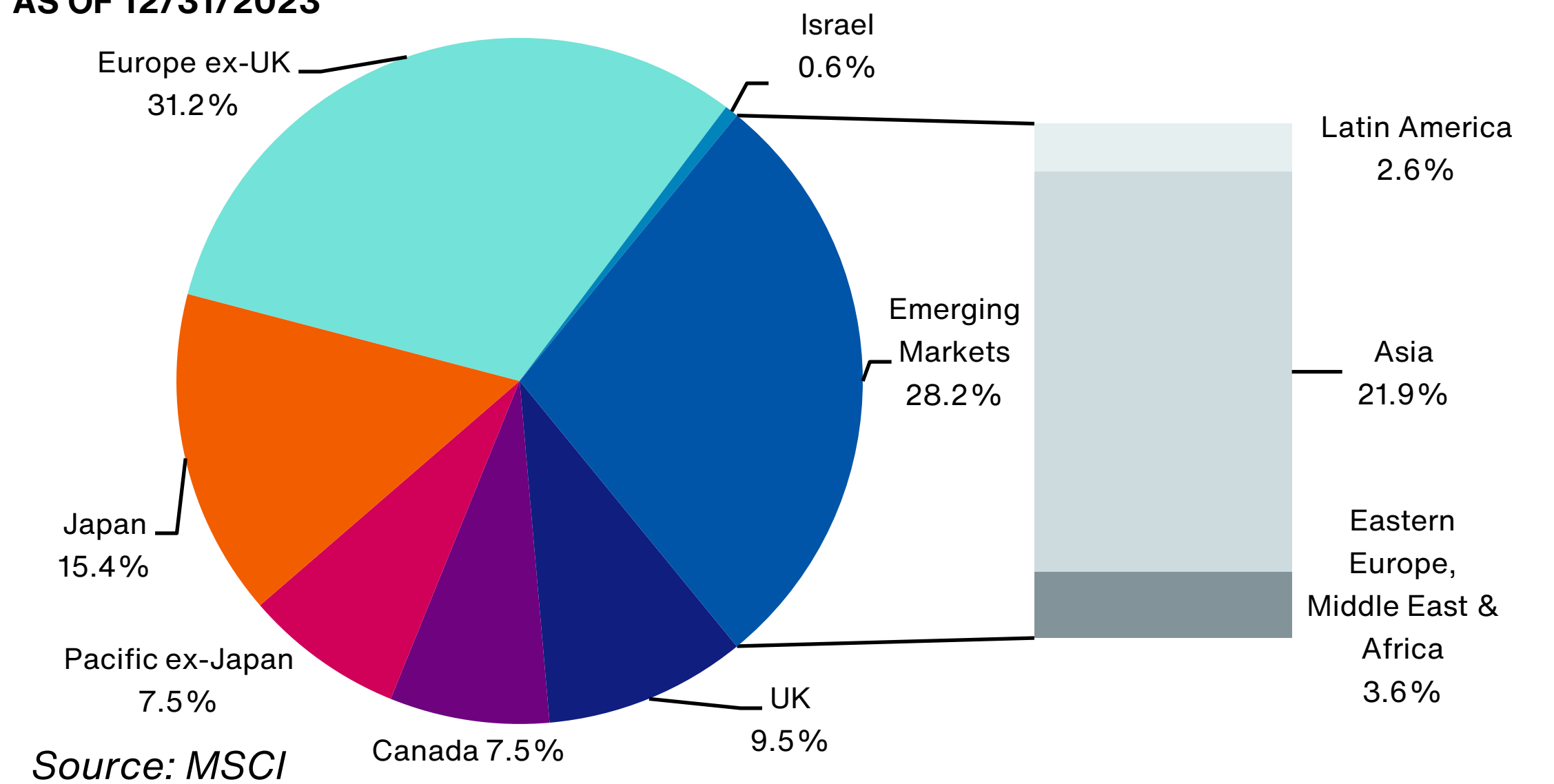
# Global Equity Markets

Below is the country/region breakdown of the global and international equity markets as measured by the MSCI All Country World IMI Index and the MSCI All Country World ex-U.S. IMI Index, respectively.

**MSCI ALL COUNTRY WORLD IMI INDEX GEOGRAPHIC ALLOCATION AS OF 12/31/2023**



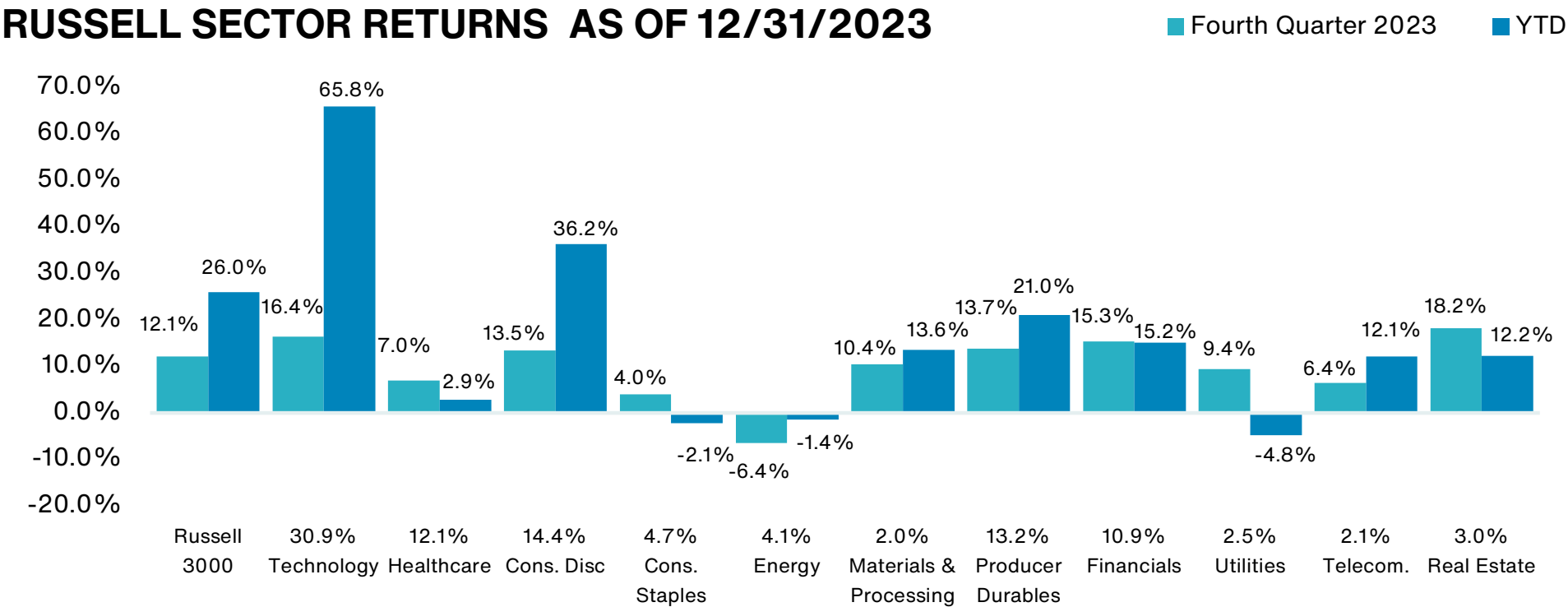
**MSCI ALL COUNTRY WORLD EX-U.S. IMI INDEX GEOGRAPHIC ALLOCATION AS OF 12/31/2023**



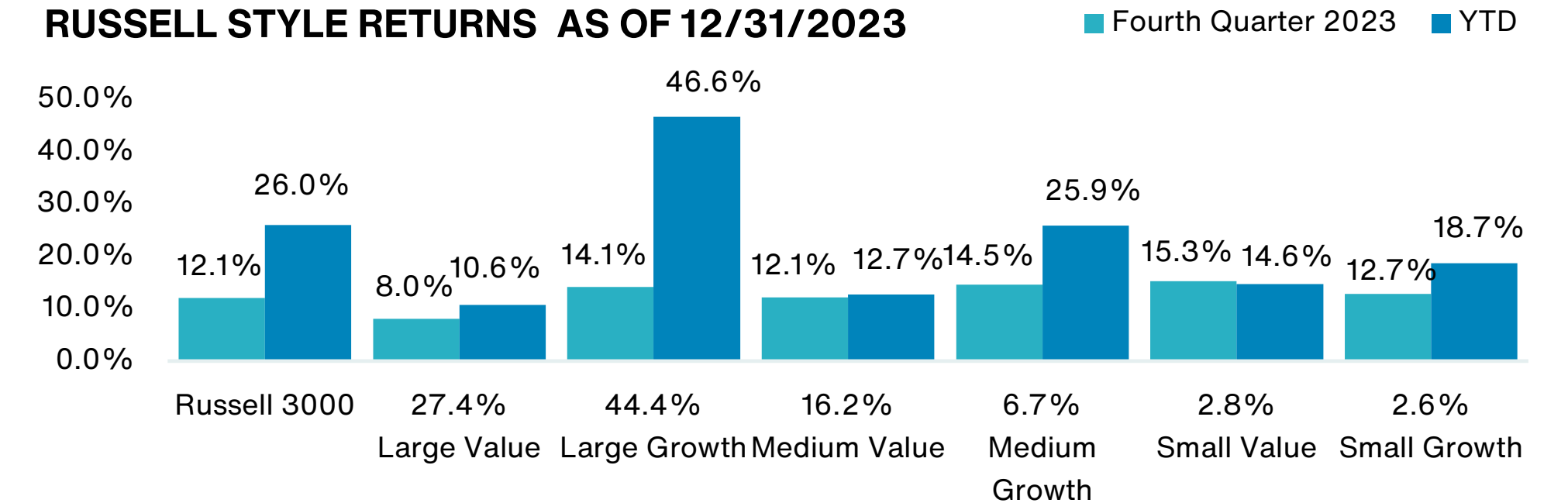
# U.S. Equity Markets

- U.S. equities had positive performance during the quarter with the S&P 500 index rising by 11.7% amidst anticipated interest rate cuts in 2024.
- The speaker of the U.S. House of Representatives, Kevin McCarthy, became the first leader in the history of the lower chamber of Congress to be removed from the position after infighting within the Republican party. McCarthy lost a no-confidence vote 216–210, as eight Republicans sided with 208 Democrats to remove him as a speaker. Mike Johnson, a Louisiana Republican, was elected as the new Speaker of the House in the fourth round of voting. Johnson received the unanimous backing of all 220 Republicans, surpassing the 215-majority mark. Following this, the U.S. Congress averted a government shutdown as lawmakers approved a short-term stop-gap funding bill to keep the government funded until early next year.
- Meanwhile, Moody’s downgraded their U.S. credit outlook from ‘stable’ to ‘negative’ amidst sharp rises in debt service costs. Moody’s updated outlook highlighted increasing downside risks to U.S. fiscal strength and added that the drastic rise in Treasury yields this year “has increased pre-existing pressure on U.S. debt affordability”.
- U.S. economy expanded by an annualized rate of 4.9% over the third quarter, higher than the 2.1% recorded in the previous quarter but below the forecasted 5.2%. A sharp rise in consumer spending and business spending on inventories helped to boost the economy in the third quarter.
- The Russell 3000 Index rose 12.1% during the fourth quarter and 26% on a YTD basis. Real estate (18.2%) and Technology (16.4%) were the best performers while Energy (-6.4%) and Consumer Staples (4.0%) were the worst performers.
- On a style basis, growth outperformed value across market capitalization except for small-cap stocks over the quarter.

**RUSSELL SECTOR RETURNS AS OF 12/31/2023**



**RUSSELL STYLE RETURNS AS OF 12/31/2023**



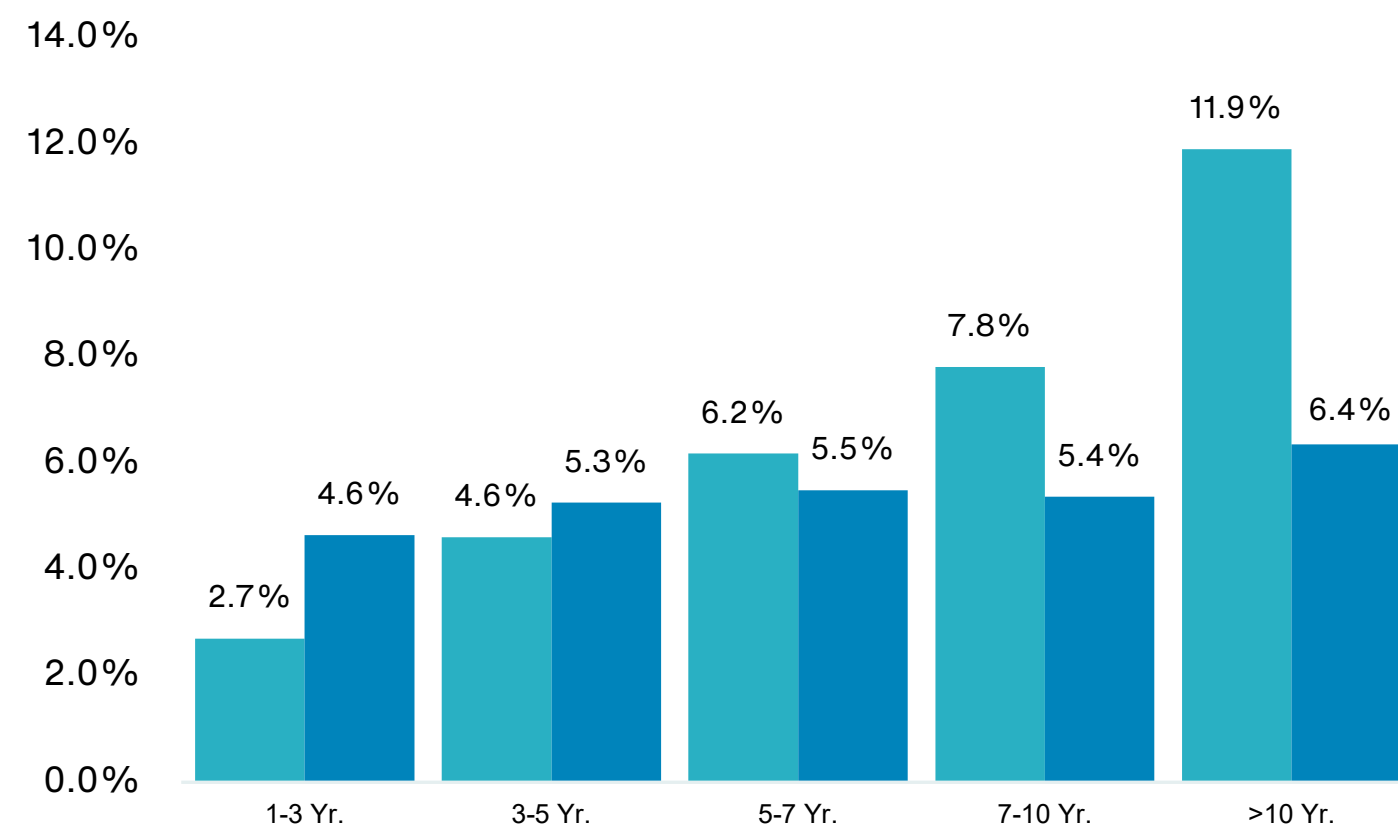
Source: Russell Indexes

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# U.S. Fixed Income Markets

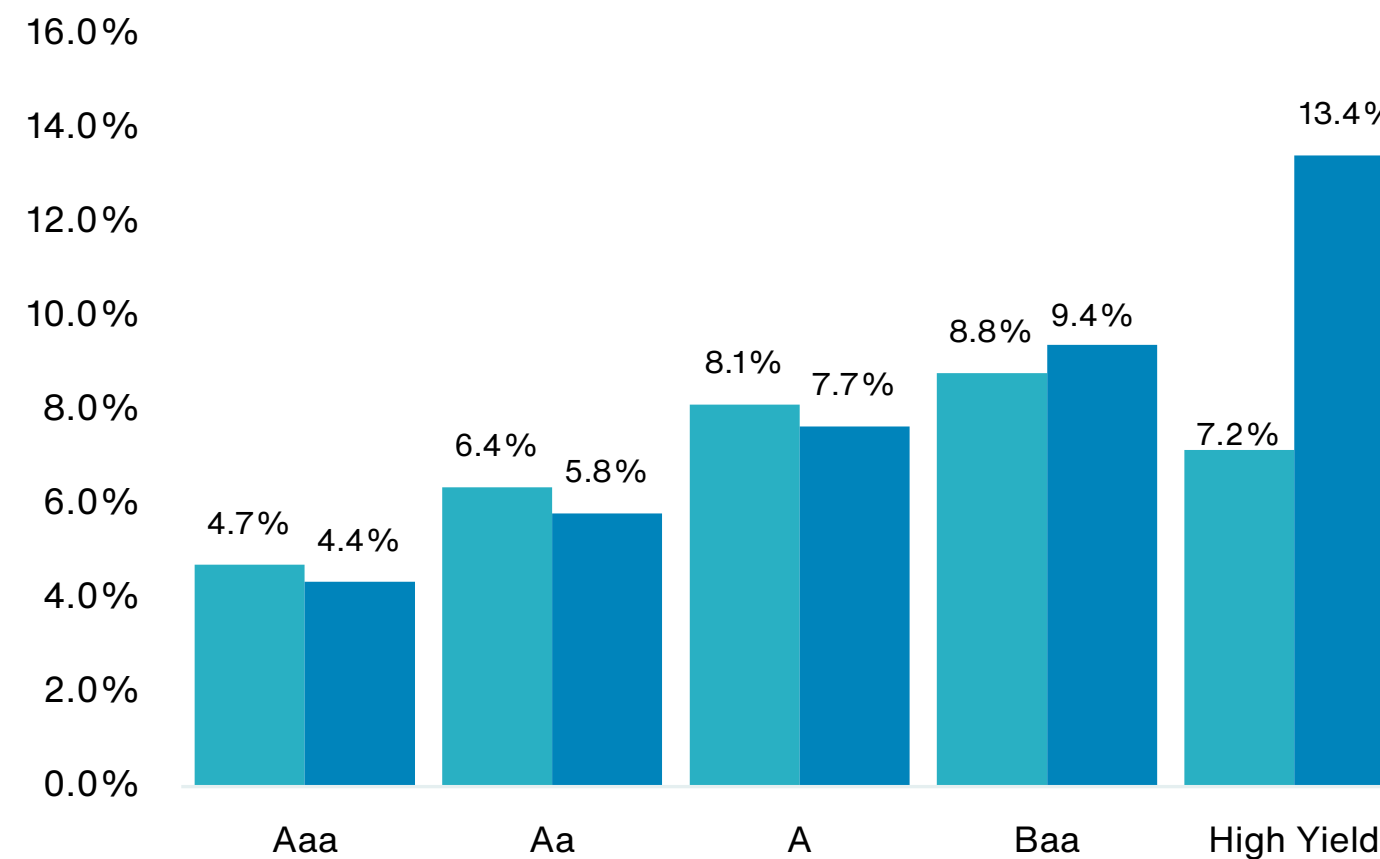
**BLOOMBERG AGGREGATE RETURNS BY MATURITY AS OF 12/31/2023**



Source: FactSet

■ Fourth Quarter 2023 ■ YTD

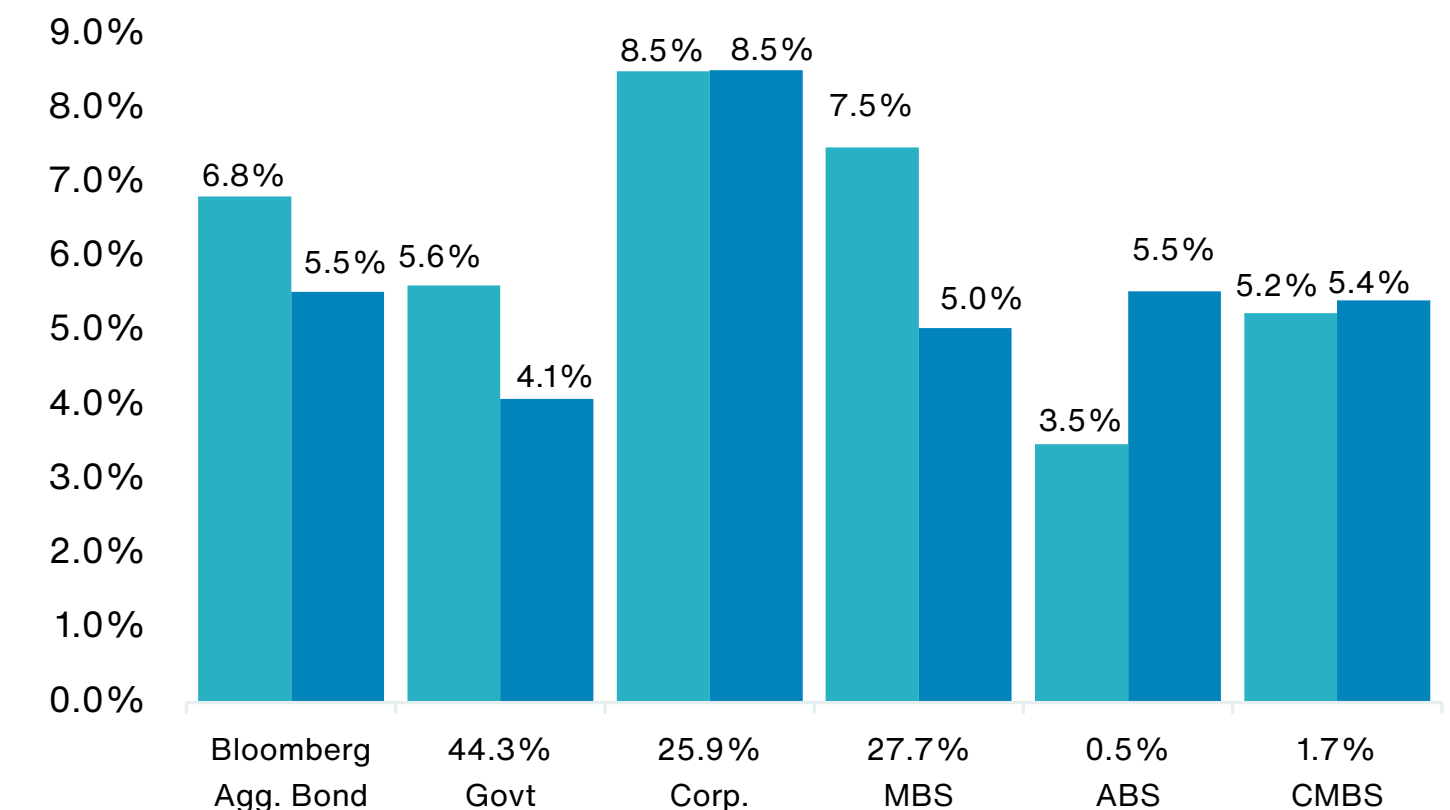
**BLOOMBERG AGGREGATE RETURNS BY QUALITY AND HIGH YIELD RETURNS AS OF 12/31/2023**



Source: FactSet

■ Fourth Quarter 2023 ■ YTD

**BLOOMBERG AGGREGATE RETURNS BY SECTOR AS OF 12/31/2023**



Source: FactSet

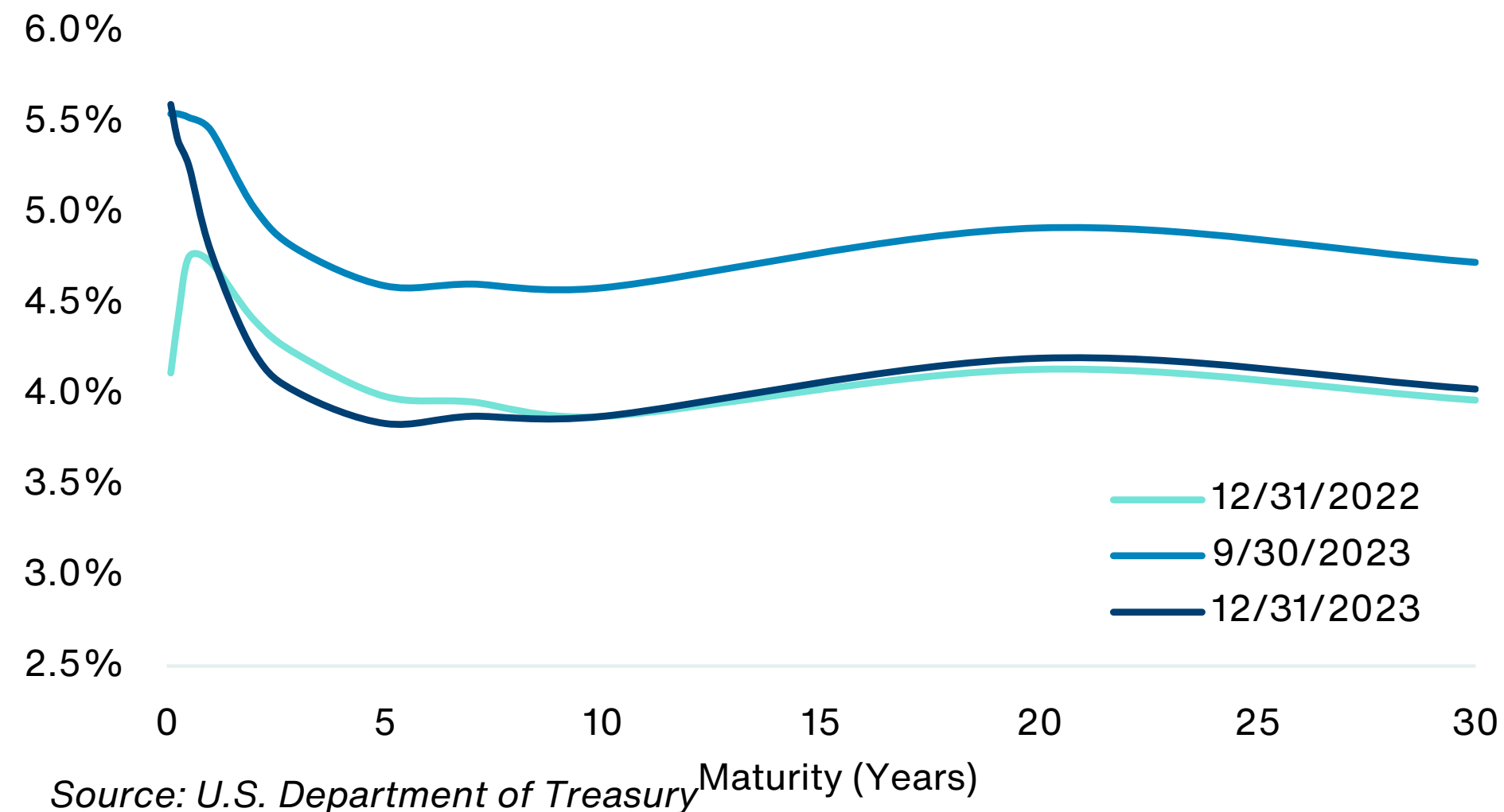
■ Fourth Quarter 2023 ■ YTD

- The U.S. Federal Reserve (Fed) kept its benchmark policy rate unchanged at 5.25%–5.50% for the third consecutive meeting. Fed chair Jerome Powell commented that the interest rate is now “likely at or near its peak for this tightening cycle”.
- The Bloomberg U.S. Aggregate Bond Index was up 6.80% over the quarter and 5.50% on a YTD basis.
- Across durations, all maturities finished the quarter in positive territory with longer maturities rising more.
- Within investment-grade bonds, lower credit quality generally outperformed higher-quality issues, with Baa bonds comparatively rising more. High-yield bonds rose by 7.20%. On a YTD basis, High Yield bonds outperformed indicating an increase in risk appetite.

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# U.S. Fixed Income Markets

**U.S. TREASURY YIELD CURVE**



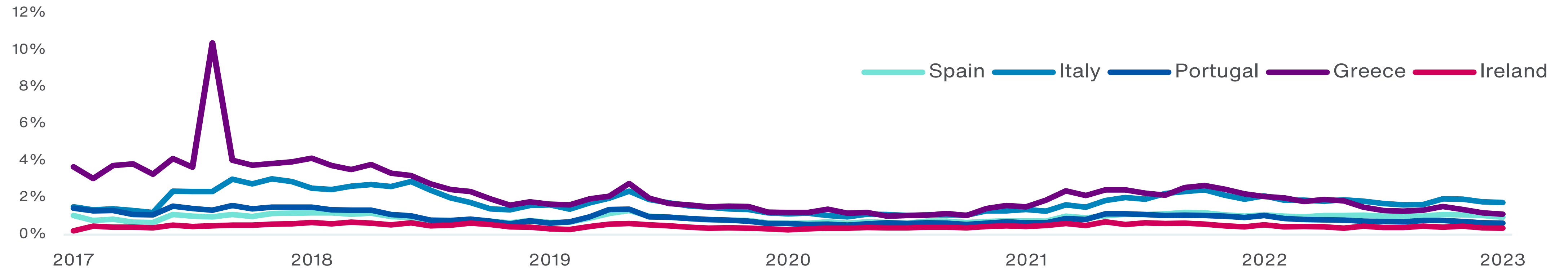
**U.S. 10-YEAR TREASURY AND TIPS YIELDS**



- U.S. Treasury yields fell significantly across maturities except at the shortest end of the curve as the yield curve shifted downwards over the quarter and the yield curve continues to be inverted. The 10-year Treasury yield fell by 71bps to 3.88%, and the 30-year Treasury yield fell by 70bps to 4.03% over the quarter.
- The U.S. headline consumer price index (CPI) edged lower to 3.1% year-on-year in November, meeting economists' expectations and marginally down from the 3.2% increase recorded in the previous month. U.S. Core inflation, which excludes food and energy costs, remained unchanged from the previous month at 4% year-on-year in November.
- The 10-year TIPS yield fell by 52bps over the quarter to 1.72%.

# European Fixed Income Markets

EUROZONE PERIPHERAL BOND SPREADS (10-YEAR SPREADS OVER GERMAN BUNDS)



Source: FactSet

- European government bond spreads over 10-year German bunds narrowed across the Euro Area. The European Central Bank (ECB) kept its interest rate unchanged at 4.0% for the second consecutive meeting. ECB policymakers signaled interest rates will be kept at “sufficiently restrictive levels for as long as necessary”. The ECB also announced it would reduce the reinvestments of maturing securities by €7.5B a month from July 2024 before ending the program at the end of next year.
- Greek and Italian government bond yields fell by 124bps and 100bps to 3.10% and 3.74%, respectively over the quarter whilst Irish and Spanish government bond yields fell by 87bps and 95bps to 2.35% and 2.95%, respectively.
- German bund yields fell by 81bps to 2.0% over the quarter.
- Eurozone headline inflation rose at the slowest pace since July 2021 as the CPI fell to 2.4% year-on-year in November, down from the previous month’s rate of 2.9% and lower than economists’ expectations of 2.7%. A fall in energy prices and a slower pace of growth in food and services prices proved to be primary factors. Core inflation also slowed to 3.6% in the year to November, down from October’s 4.2%.

# Credit Spreads

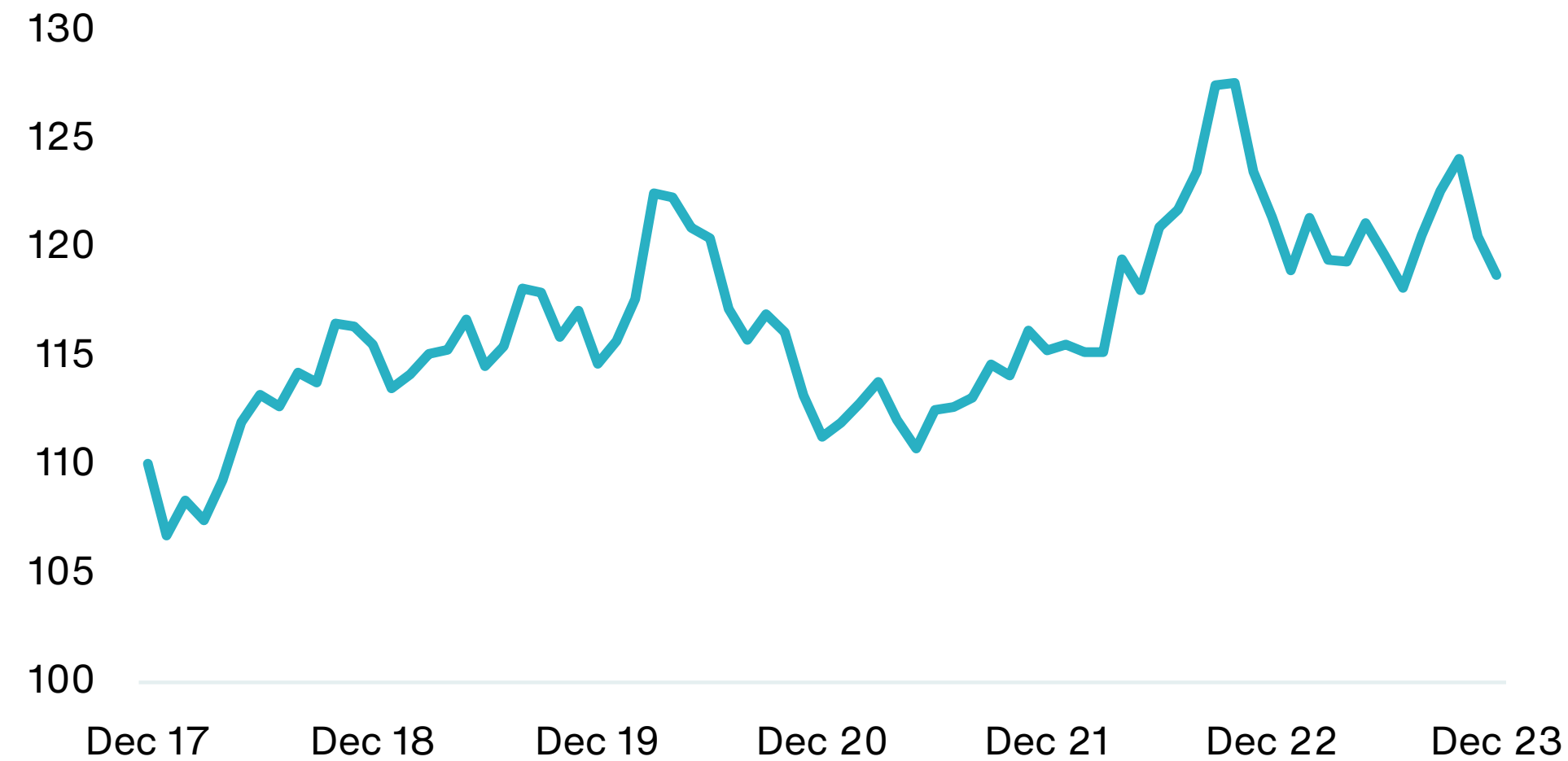
Spread (bps)	12/31/2023	9/30/2023	6/30/2023	Quarterly Change (bps)	YTD
U.S. Aggregate	42	52	51	-10	-9
Long Gov't	2	0	2	2	0
Long Credit	117	133	157	-16	-40
Long Gov't/Credit	62	71	87	-9	-25
MBS	47	66	51	-19	-4
CMBS	126	130	120	-4	6
ABS	68	67	76	1	-8
Corporate	99	121	130	-22	-31
High Yield	323	394	469	-71	-146
Global Emerging Markets	294	313	332	-19	-38

Source: FactSet, Bloomberg

- Credit markets rose amid increasing risk tolerance sentiment, with spreads narrowing.
- High Yield and Corporate spreads narrowed by 71bps and 22bps, respectively. Meanwhile, Long Gov't and ABS Credit spreads widened by 2bps and 1bp, respectively.

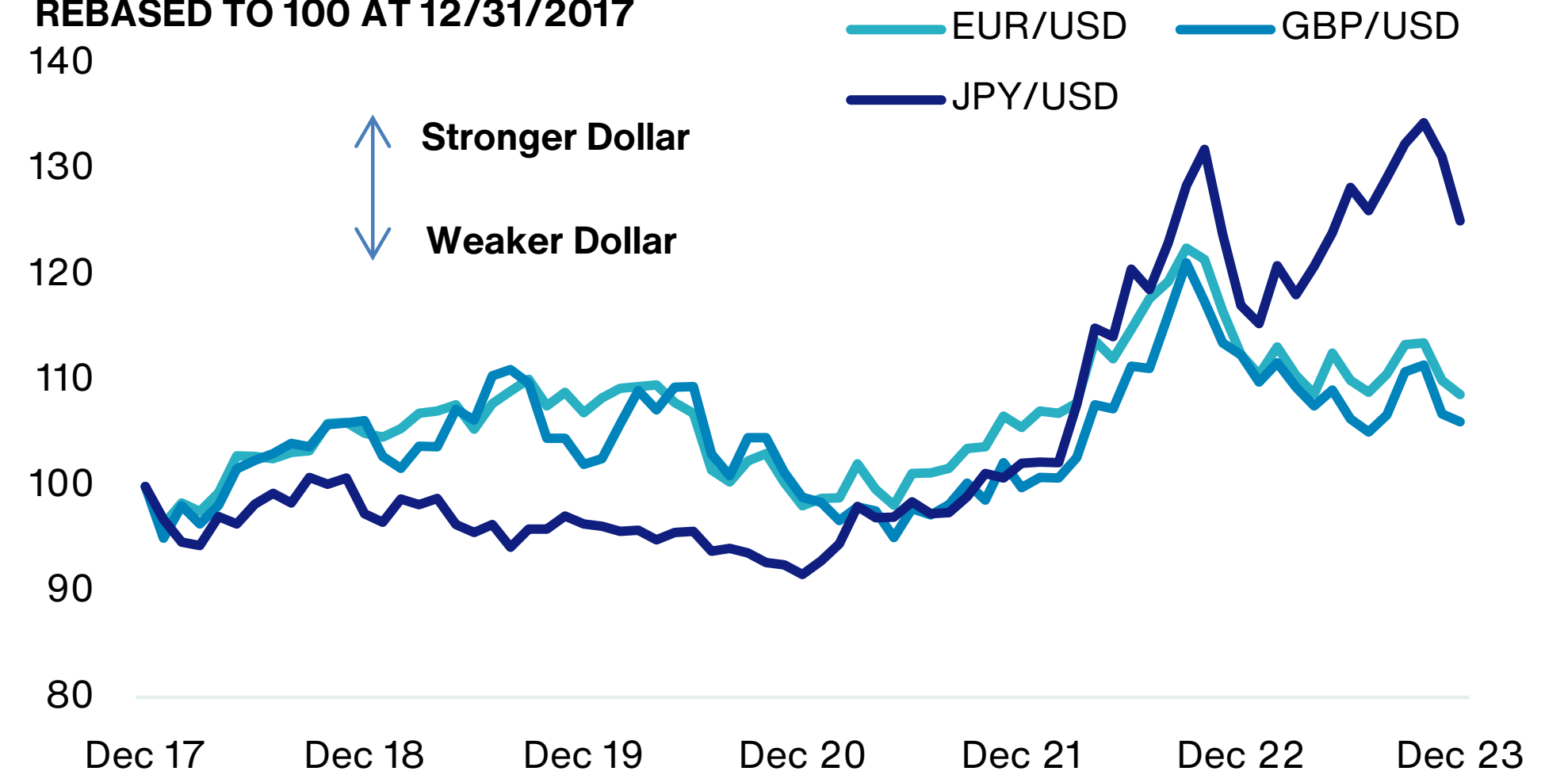
# Currency

**TRADE WEIGHTED U.S. DOLLAR INDEX  
(2006 = 100)**



Source: Federal Reserve

**U.S. DOLLAR RELATIVE TO EUR, GBP AND JPY  
REBASED TO 100 AT 12/31/2017**

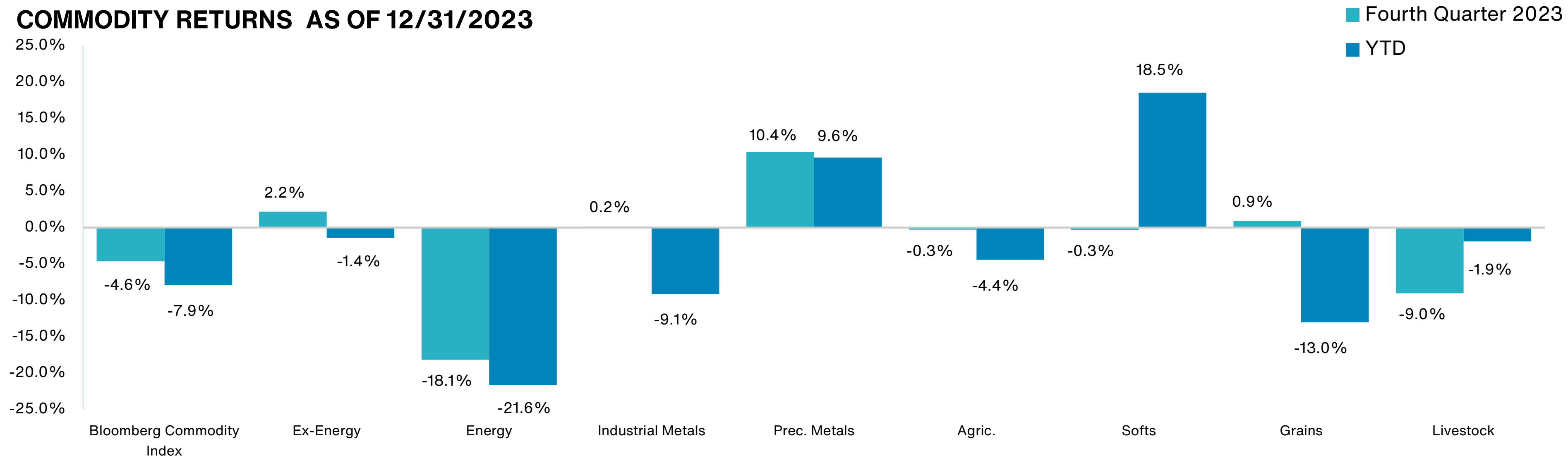


Source: FactSet

- The U.S. Dollar depreciated against all major currencies over the quarter. On a trade-weighted basis, the U.S. dollar depreciated by 3.2%.
- Sterling appreciated by 4.3% against the U.S. dollar. The Bank of England (BoE) kept its interest rate unchanged at 5.25% for the third consecutive meeting. The Monetary Policy Committee (MPC) voted six to three in favour of maintaining the current interest rate, with three members preferring a 25bps increase. The MPC indicated that interest rates would likely need to be kept high for an “extended period of time” and kept the option open for further rate rises “if there were evidence of more persistent inflationary pressures”.
- The U.S. dollar depreciated by 4.2% against the Euro and by 5.5% against the yen.

# Commodities

## COMMODITY RETURNS AS OF 12/31/2023



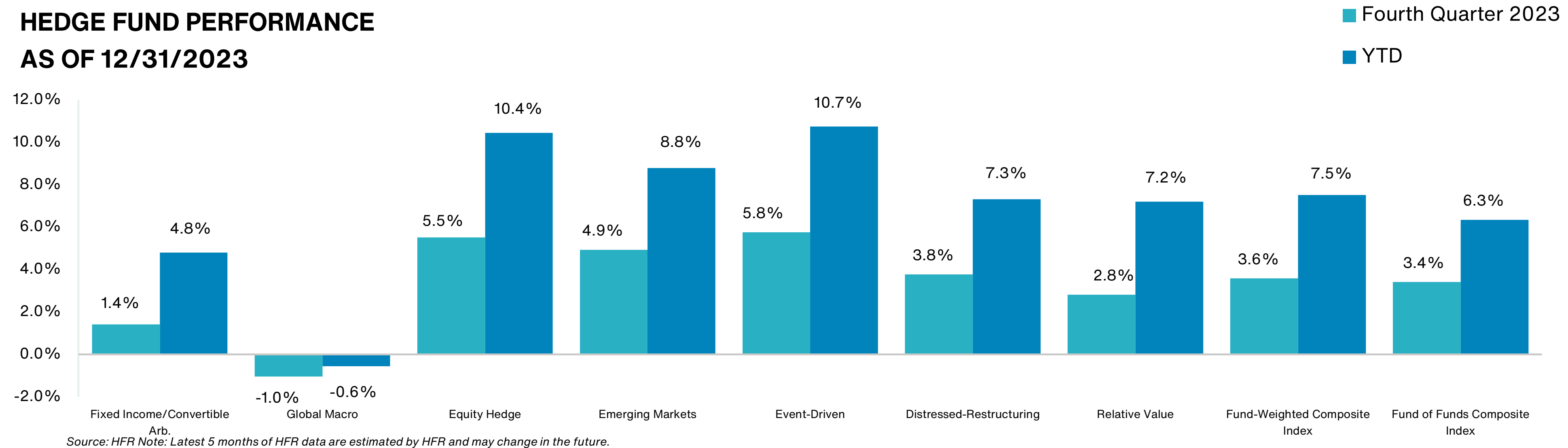
Source: Bloomberg Note: Softs and Grains are part of the wider Agriculture sector

- Commodity prices fell over the quarter with the Bloomberg Commodity Index falling by 4.6% for the quarter.
- The energy sector was the worst performer as it fell 18.1% over the quarter and 21.6% on a YTD basis. The price of WTI crude oil was significantly down by 21.1% to U.S.\$72/B.
- Precious Metals rose the most over the quarter at 10.4%.
- Meanwhile, Opec+ members announced voluntary oil production cuts until Q1 2024. Saudi Arabia pledged to extend an ongoing 1mn barrels per day (bpd) production cut whilst Russia will increase its export reduction from the current 300,000 bpd to 500,000 bpd. Opec+ aims for a total of 2M bpd production cut with the help of other members.

**Past performance is no guarantee of future results.** Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect fees and expenses. Please see appendix for index definitions and other general disclosures.

# Hedge Funds Market Overview

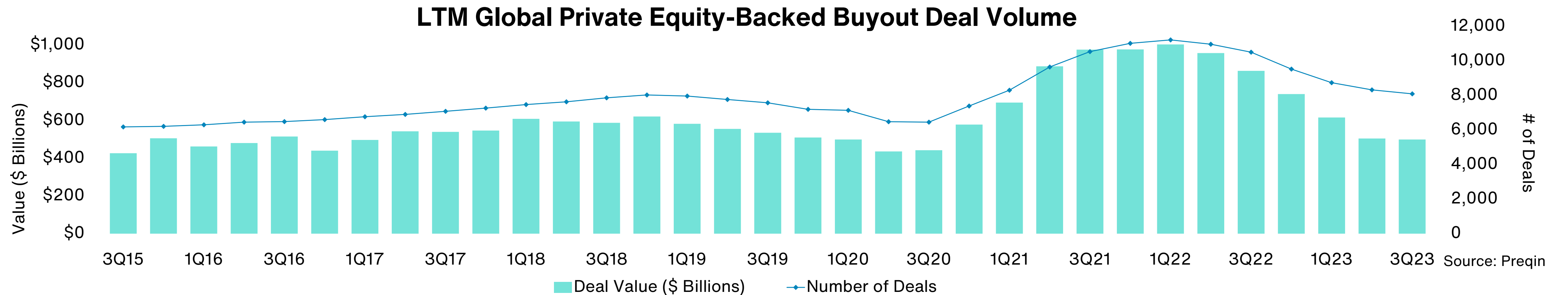
## HEDGE FUND PERFORMANCE AS OF 12/31/2023



- Hedge fund performance was positive over the quarter except for Global Macro.
- The HFRI Fund-Weighted Composite and HFRI Fund of Funds Composite Index produced returns of 3.6% and 3.4% over the quarter, respectively.
- Over the quarter, Event Driven was the best performer with a return of 5.8%.
- Global Macro was the worst performer with a return of -1.0% over the quarter.
- On a YTD basis, Event Driven has outperformed all other strategies whilst Global Macro has performed the worst.

**Past performance is no guarantee of future results.** Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect fees and expenses. Please see appendix for index definitions and other general disclosures.

# Private Equity Overview – Third Quarter 2023



- **Fundraising:** In Q3 2023, \$250.1B was raised by 489 funds, which was an increase of 14.8% on a capital basis but a decrease of 22.0% by number of funds over the prior quarter. Dry powder stood at \$3.3T at the end of the quarter, an increase of 10.3% and 38.7% compared to year-end 2022 and the five-year average, respectively.<sup>1</sup>
- **Buyout:** Global private equity-backed buyout deals totaled \$113.4B in Q3 2023, which was an increase on a capital basis of 6.3% compared to Q2 2023 but a decrease of 32.2% compared to the five-year quarterly average.<sup>1</sup> During the quarter, the average purchase price multiple for all U.S. LBOs was 9.5x EBITDA, down substantially from Q2 2023's average of 11.3x and the five-year average (11.3x). The YTD average purchase price multiple ended Q3 2023 at 11.2x. Large cap purchase price multiples stood at 11.4x YTD, down compared to 11.8x at the end of 2022. The average purchase price multiple across European transactions greater than €1B averaged 10.1x EBITDA on an LTM basis as of Q3 2023, down from the 10.3x multiple seen at the end of Q2 2023. Purchase prices for transactions of €500.0M or greater increased, on an LTM basis, from 9.6x at Q2 2023 to 10.1x at Q3 2023.<sup>2</sup> Globally, buyout exit value totaled \$107.7B across 552 deals during the quarter, down from \$113.2B in value from 474 deals during Q2 2023.<sup>1</sup>
- **Venture:** During the quarter, 2,716 venture-backed transactions totaling \$36.7B were completed, which was a decrease on both a capital and deal count basis over the prior quarter's total of \$37.0B across 3,560 deals. This was also a decrease of 32.3% compared to the five-year quarterly average of \$54.4B. Total U.S. venture-backed exit value increased meaningfully during the quarter, totaling approximately \$35.8B across an estimated 284 completed transactions, compared to \$6.6B across 298 exits in Q2 2023.<sup>3</sup>

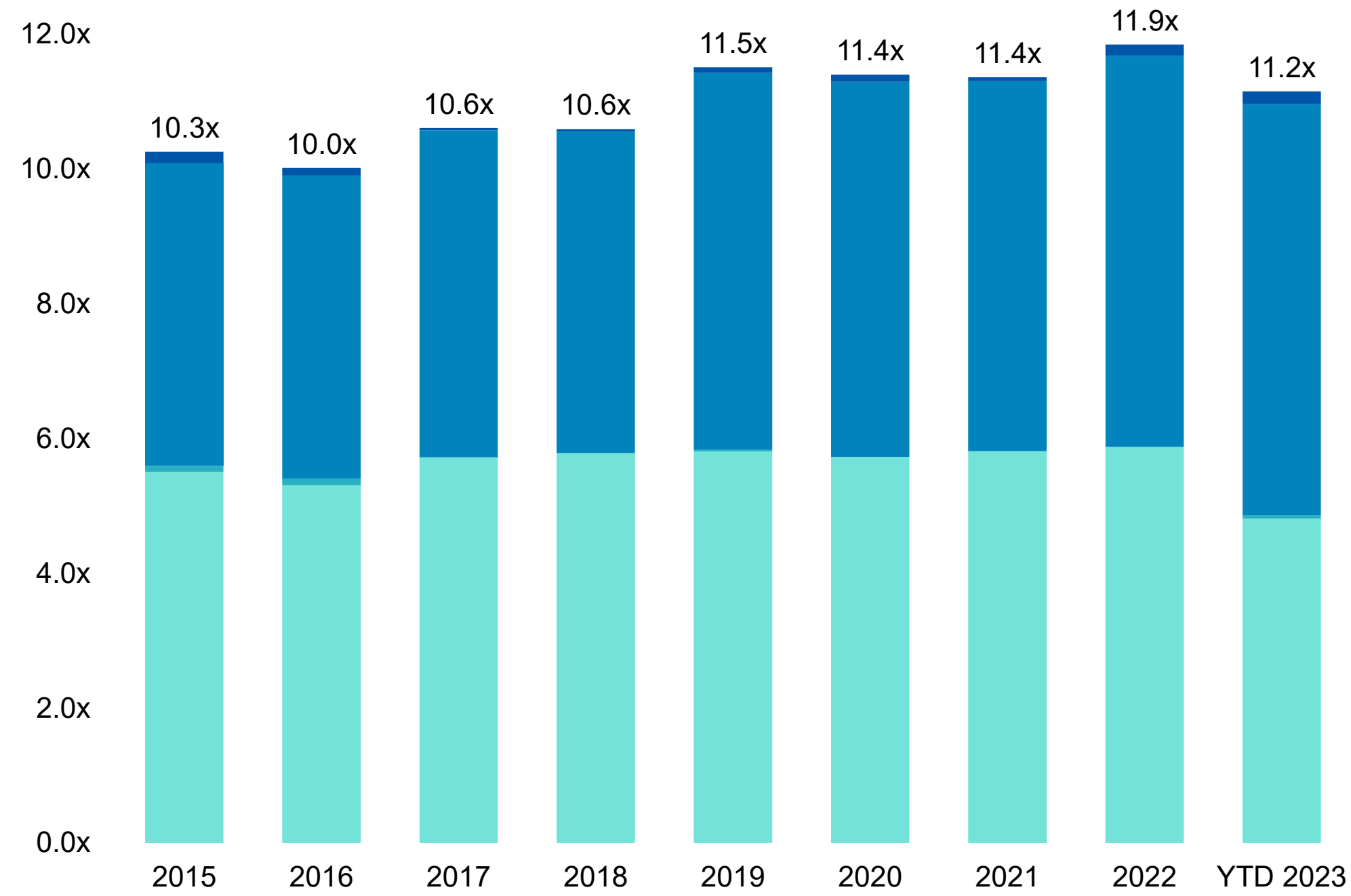
Sources: <sup>1</sup> Preqin <sup>2</sup> Standard & Poor's <sup>3</sup> PitchBook/NVCA Venture Monitor <sup>4</sup> Fitch Ratings <sup>5</sup> Jefferies

Notes: FY=Fiscal year ended 12/31; YTD=Year to date; LTM=Last 12 months (aka trailing 12 months); PPM=Purchase Price Multiples: Total Purchase Price ÷ EBITDA.



# Private Equity Overview

U.S. LBO Purchase Price Multiples – All Transaction Sizes

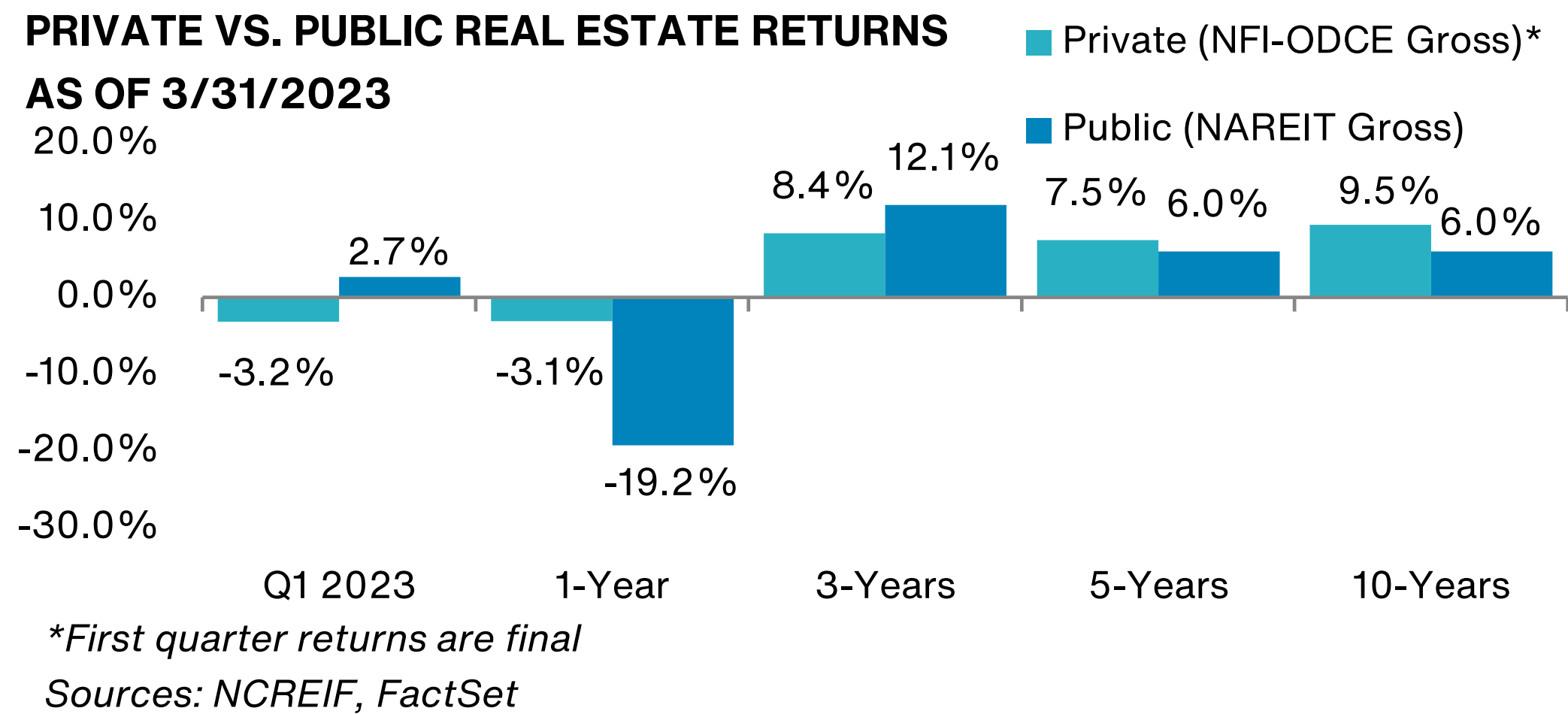


Source: S&P    ■ Senior Debt/EBITDA   ■ Sub Debt/EBITDA   ■ Equity/EBITDA   ■ Others

- Mezzanine:** 5 funds closed on \$1.6B during the quarter. This was a decrease from the prior quarter's total of \$19.4B raised by 9 funds and represented a decrease of 75.7% from the five-year quarterly average of \$6.6B. Estimated dry powder was \$66.7B at the end of Q3 2023, up from \$66.0B at the end of the prior quarter.<sup>1</sup>
- Distressed Debt:** The TTM U.S. high-yield default rate was 3.1% as of November 2023, which was up from June 2023's TTM rate of 2.6%. Fitch expects the high-yield default rate to continue trending higher through the end of 2023.<sup>4</sup> During the quarter, \$8.1B was raised by 13 funds, up from the \$7.3B raised by 11 funds during Q2 2023. Dry powder was estimated at \$159.6B at the end of Q3 2023, which was up 1.9% from Q2 2023. This remained above the five-year annual average level of \$138.8B.<sup>1</sup>
- Secondaries:** 16 funds raised \$23.8 billion during Q3 2023, up substantially from the \$5.7B raised by 15 funds in Q2 2023. This was an increase compared to the five-year quarterly average of \$11.9B.<sup>1</sup> The average discount rate for LP buyout and venture capital portfolios finished the quarter at 8.0% and 32.0%, respectively.<sup>5</sup>
- Infrastructure:** \$5.1B of capital was raised by 14 funds in Q3 2023 compared to \$9.7B of capital raised by 21 partnerships in Q2 2023. Capital raised through Q3 2023 represented only 11.3% of full-year 2022's total. Infrastructure managers completed 541 deals for an aggregate deal value of \$90.1B in the third quarter compared to 465 deals totaling \$52.1B in Q2 2023.<sup>1</sup>
- Natural Resources:** During Q3 2023, 5 funds closed on \$2.5B compared to 6 funds totaling \$1.9B in Q2 2023. 26 energy and utilities deals were completed in Q3 2023 totaling \$9.5B, an increase, on a value basis, compared to 49 completed deals totaling \$6.7B in Q2 2023.<sup>1</sup>

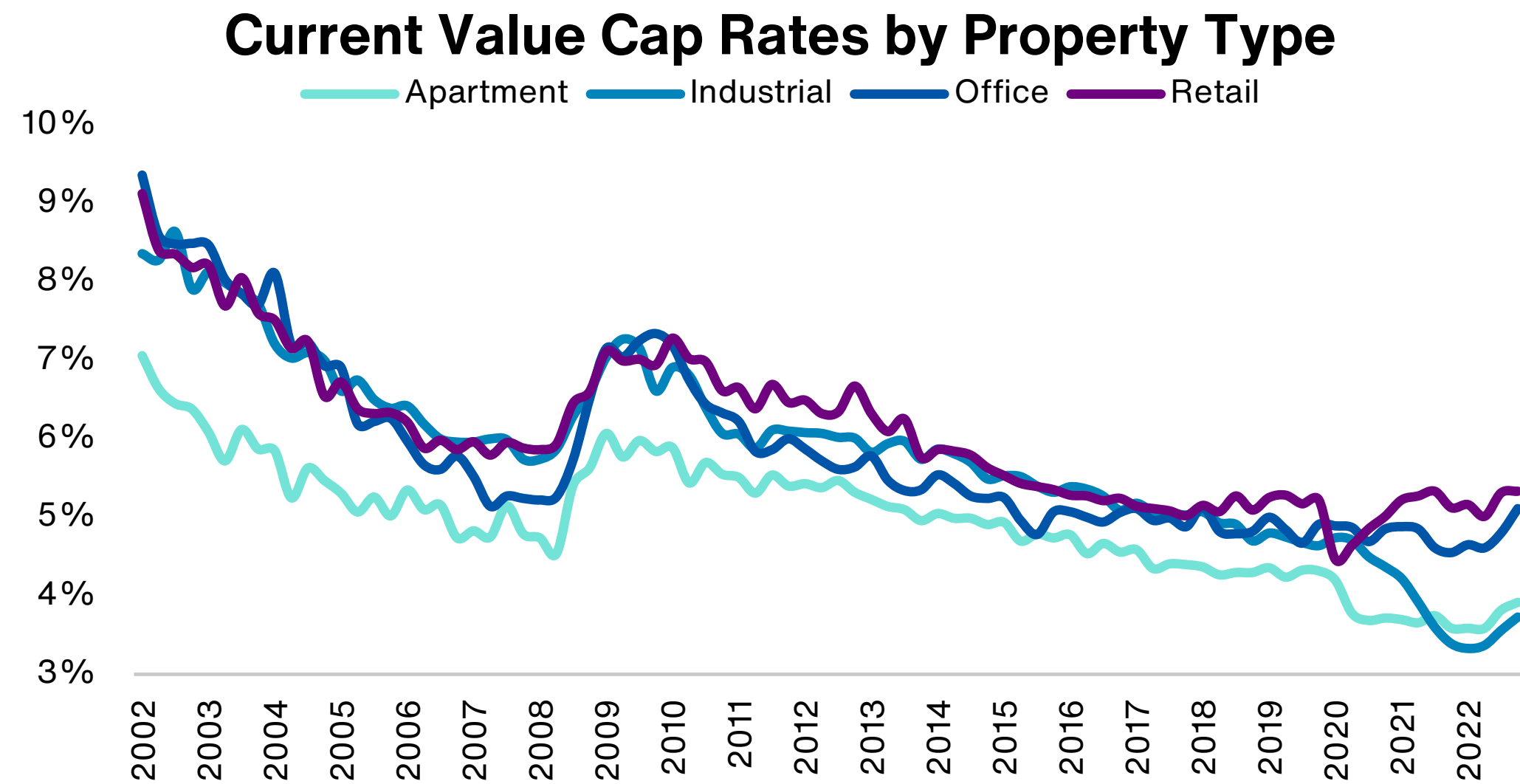
Sources: <sup>1</sup> Preqin <sup>2</sup> Standard & Poor's <sup>3</sup> PitchBook/NVCA Venture Monitor <sup>4</sup> Fitch Ratings <sup>5</sup> Jefferies

# U.S. Commercial Real Estate Markets



- U.S. Core Real Estate returned -3.2%\* gross return in the first quarter 2023, resulting in a -3.1% total gross return for the trailing one-year, including a 3.4% income return. Real estate capital markets have been impacted by the higher inflation and interest rate environment and resulting increased cost of capital. During the first quarter of 2023, REITs rebounded as inflationary pressures appeared to settle, and the perceived probability of fed funds rate cuts in 2023 increased.
- Global property markets, as measured by the FTSE EPRA/NAREIT Developed Real Estate Index, returned 1.0% (USD) in aggregate during the first quarter and experienced a cumulative decline of 20.6% over the trailing 1-year period. REIT market performance during the quarter was driven by North America (+2.7% USD), with Europe (-2.8% USD) and Asia Pacific (-2.2% USD) lagging the global Index. The U.S. REIT markets (FTSE NAREIT Equity REITs Index) returned 2.7% in the first quarter.
- In the first quarter of 2023, U.S. private real estate transaction volumes declined 56% from the first quarter of 2022 to \$85B. This decline is the culmination of rising interest rates, the availability of capital, and a perceived bid-ask spread.

# U.S. Commercial Real Estate Markets



- While capital markets have created significant near-term headwinds for nearly every asset class, we believe real estate fundamentals have remained generally promising, but also highly bifurcated. Even in the midst of moderating rent growth, Multifamily properties continue to experience near record-high occupancy and may be a net beneficiary of the eroding affordability of homeownership in this high interest rate environment. Industrial vacancy rates are amongst the lowest which supports continued NOI growth, helping offset pricing pressure as a result of rising cap rates.
- The retail and office sectors are facing significant headwinds over the near term. Retail real estate demand has seen modest recovery from occupiers, but the sector faces declining consumer confidence and purchasing power. Additionally, work-from-home trends and a cooling labor market are impacting office space needs. Weakening demand and increasing sublease inventory have pushed occupancy rates down across the sector—although demand for high-quality assets in well-located markets has been more resilient than commodity product.
- Townsend has identified high conviction investment themes that are predicated on secular growth trends and strong underlying real estate market fundamentals. These investment themes have commonalities such as anticipated tenant demand growth, natural barriers to supply, and operating complexity that are anticipated to persist medium to long-term.

Appendix



# Glossary of Investment Terms and Concepts

## **Active Returns**

Measures the average excess return of the portfolio relative to a benchmark. The excess return is annualized. The higher the active return, the better the portfolio's performance versus the benchmark.

## **Alpha**

Measures nonsystematic return, or the return that cannot be attributed to the market. Thus, it can be thought of as how the manager performed if the market had no gain or loss. A positive alpha implies that the manager has added value to the return of the portfolio over that of the market.

## **Average Credit Quality**

An average of all the credit-quality positions for the fund or underlying fund's bond holdings. The credit quality levels range from AAA (highest) to D (lowest).

## **Average Maturity**

Average maturity is the weighted average of the dates on which the bonds held in the portfolio become due and are to be paid off.

## **Average Weighted Coupon**

A weighted average of the coupons for all bond holdings in the fund or underlying fund's portfolio. This figure is generated by weighing each bond's rate of interest to its relative size in the portfolio.

## **Bloomberg Barclays U.S. Aggregate Bond Index**

This includes all publicly issued, non-convertible domestic debt of the US Government and all its agencies, all investment-grade corporate debt and all mortgage-backed securities. The minimum maturity is one year, but there is no maximum maturity. The bonds must have at least \$250 million par amount outstanding.

## **Bloomberg Barclays U.S. Government/Credit Bond Index**

Is made up of the Bloomberg Barclays U.S. Government and Bloomberg Barclays U.S. Capital Credit Indices. All issues are rated investment grade or higher, have at least one year to maturity, and have an outstanding par value of at least \$250 million.

## **Bloomberg Barclays U.S. Government/Credit Intermediate Index**

A measure of the movement of approximately 2,800 bonds from the Bloomberg Barclays U.S. Government/Credit index with maturities between 1 and 9.99 years. The total return calculated for the index consists of price appreciation/depreciation and income as a percentage of the original investment.

## **Bloomberg Barclays U.S. Government/Credit Long Index**

A measure of the movement of bonds from the Bloomberg Barclays U.S. Government/Credit index with maturities greater than 9.99 years. The total return calculated for the index consists of price appreciation/depreciation and income as a percentage of the original investment.

## **Beta**

Measures the risk level of the manager. Beta measures the systematic risk, or the return that is attributable to market movements. A beta equal to one indicates a risk level equivalent to the market. Higher betas are associated with higher risk levels, while lower betas are associated with lower risk levels.

## **Bottom-Up**

A methodical approach to investing in which investors search for outstanding performance of individual stocks before considering the impact of economic trends. Companies are identified from research reports, stock screens, personal knowledge of the products and services, and other resources. The bottom-up approach assumes that individual companies can do well, even in an industry or sector that is not performing well.

## **Commingled Account**

The collective investment of the assets of several institutional clients, usually through an investment manager allowing for broader and more efficient investing.

# Glossary of Investment Terms and Concepts

## Consumer Price Index (CPI)

A measure of the average change in prices over time of a fixed group of goods and services. The CPI is published by the Bureau of Labor Statistics in the Department of Labor and is released monthly. It is widely used as a cost-of-living benchmark.

## Correlation

Statistical measure of the degree to which the movements of two variables are related, ranging from 1 to -1. For asset allocation purposes, mixing two assets with a correlation less than 1 results in a benefit of diversification because the two assets do not behave in exactly the same manner.

## Core Investment Style

An investment approach that managers utilize by reviewing the entire universe of growth and value stocks within a market capitalization range, then choosing a combination of the most attractive of either type to create a blended portfolio with a style that is neither a pure value nor a pure growth. Core portfolio characteristics including P/E ratio, P/B ratio, and dividend yield that typically lie between growth and value portfolios.

## Coupon

The interest on a debt security, e.g., a bond, the issuer promises to pay to the holder until maturity, expressed as an annual percentage of the security's face value. For example, a bond with a 10% coupon will pay \$10 per \$100 of the face amount per year.

## Current Yield

The annual interest on a bond divided by the market price. If a \$1,000 bond was bought at \$800 and the annual income from the bond was \$100, the current yield is \$100 divided by \$800, or 12½%.

## Dow Jones Industrial Average

Computed by summing the prices of the stocks of 30 companies and then dividing that total by a value which has been adjusted over the years so that the index is not affected by stock splits.

## Downside Risk

Estimate that a security will decline in value and the extent of the decline, taking into account the total range of factors affecting market price.

## Duration

Measure of the price change of a bond to a change in its yield to maturity. It summarizes, in a single number, the characteristics that cause bond prices to change in response to a change in interest rates. The price of a bond with a duration of three years will rise by approximately 3% for each 1% decrease in its yield to maturity. That price will decrease 3% for each 1% increase in the bond's yield. Price changes for two different bonds can be compared using duration. A bond with a duration of six years will exhibit twice the percentage price change of a bond with a three year duration. The actual calculation of a bond's duration is somewhat complicated, but the idea behind the calculation is straightforward. The first step is to measure the time interval until receipt for each cash flow (coupon and principal payments) from a bond. The second step is to compute a weighted average of these time intervals. Each time interval is measured by the present value of that cash flow. This weighted average is the duration of the bond measured in years.

## Excess Risk

A measure of the standard deviation of a portfolio's performance relative to the risk free return, represented by 90-Day T-Bills.

## Expense Ratio

A figure that represents the percentage of fund assets paid for operating expenses and management fees, including 12b-1 fees, administrative fees, and all other asset-based costs incurred by the fund, except for brokerage costs and sales charges.

# Glossary of Investment Terms and Concepts

## **Fundamental Analysis**

A method of analyzing the balance sheet and income statement of a company in order to forecast its future stock price movements. Analysts consider the company's past records of assets, earnings, sales, products, management, and markets in predicting future trends in these indicators of a company's success or failure.

## **Growth Stock**

Stock of a company which is growing earnings and/or revenue faster than its industry or the overall market and is expected to continue to show high levels of profit growth and P/E multiples. Such a company usually pays little or no dividends, preferring to use the income to finance further expansion. Generally, these stocks are contrasted with value stocks that trade at lower P/E multiples.

## **Information Ratio**

The information ratio is a measure of the consistency of excess return. This value is determined by taking the annualized excess return over a benchmark (style benchmark by default) and dividing it by the standard deviation of excess return.

## **Large Cap**

"Large cap" refers to stock with a large capitalization, which is calculated by multiplying the number of outstanding shares times the price of the shares. Large cap stocks typically have at least \$5 billion in outstanding market value.

## **Long-Term Earnings Growth**

The long-term perspective earnings growth rate is the assetweighted average of the long-term perspective earning growth rates of all the domestic stocks in the fund's portfolio as of the date of the portfolio. Each portfolio holding is weighted by the percentage of domestic equity assets it represents, so that largest positions have proportionately greater influence on the fund's aggregate long-term earnings growth rate. Long-term prospective earnings growth rates for stocks are provided by a third party stock data vendor.

## **Market Capitalization**

The value of a corporation as determined by the market price of its issued and outstanding common stock, calculated by multiplying the number of outstanding shares by the current market price of a share. Market capitalization may also refer to the total current value of the holdings of a mutual fund.

## **Maturity**

Refers to the date at which a debt instrument is due and payable. A bond due to mature on January 1, 2010 will return the bondholder's principal and final interest payment when it reaches maturity on that date.

## **Median Market Capitalization**

The median market capitalization of the companies in a fund's portfolio. Half of the fund's money is invested in the stocks of companies larger than the median market capitalization, and half is invested in smaller issuers.

## **Mid Cap**

"Mid cap" refers to stock with a medium capitalization, which is calculated by multiplying the number of outstanding shares times the price of the shares. Mid cap stocks typically have between \$1 and \$10 billion in outstanding market value.

## **MSCI - EAFE**

Europe, Australia and Far East Equity Index, calculated by the Morgan Stanley Capital International group. The index acts as a benchmark for managers of international stock portfolios.

## **Mutual Fund**

A fund operated by an investment company that raises money from shareholders and invests it in stocks, bonds, options, futures, currencies, or money market securities. Mutual funds offer investors the advantages of diversification and professional management. Shares are redeemable on demand at net asset value by shareholders, who share equally in the gains and losses generated by the fund.

# Glossary of Investment Terms and Concepts

## Price/Book Ratio

This is the weighted average of the price/book ratios of all stocks in a fund's portfolio. The P/B ratio of a company is calculated by dividing the market price of its stock by the company's per share book value (negative book values are excluded).

## Price/Earnings Ratio

This is the weighted average of the price/earnings ratios of all stocks in a fund's portfolio. The P/E ratio of a stock is obtained by dividing the current price of the stock by its trailing 12 months' earnings per share.

## Quartile Universe Comparison

These graphs depict the performance of the fund versus its peer group for the periods listed. Each floating bar represents the universe group's performance over the selected time period. For each period, there is a high, low, median, and first and third quartile point.

## R-Squared Statistic

A statistic that measures the reliability of alpha and beta in explaining the return of a manager as a linear function of the market. Higher Rsquared values indicate more reliable alpha and beta statistics and are useful in assessing a manager's investment style.

## ROE (Return on Equity)

The amount, expressed as a percentage, earned on a company's common stock investment for a given period. Return on equity tells common stockholders how effectually their money is being employed.

## Risk Return Graph

This graph is used to compare the performance and risk (standard deviation) of the fund against the performance and risk of an appropriate benchmark for a specific period of time.

## Rolling Returns Bar Graph

This graph shows the performance of a fund for a specific trailing period (quarterly), and for every three-month period going back for a set of previous periods.

## Russell 1000 Index

A market index comprised of the highest-ranking 1,000 stocks in the Russell 3000 Index, representing about 90% of the Russell 3000 Index total market capitalization.

## Russell 1000 Growth Index

This contains those Russell 1000 securities with a greater-than-average growth orientation. Securities in this index tend to exhibit higher price-to-book and price-earnings ratios, lower dividend yields, and higher forecasted growth values than the Value universe.

## Russell 1000 Value Index

This contains those Russell 1000 securities with a lower-than-average growth orientation. Securities in this index tend to exhibit lower price-to-book and price-earnings ratios, higher dividend yields, and lower forecasted growth values than the Growth universe.

## Russell 2000 Index

A market index comprised of the 2,000 smallest companies in the Russell 3000 Index, representing approximately 10% of the Russell 3000 Index total market capitalization.

## Russell 2000 Growth Index

This contains those Russell 2000 securities with a greater-than-average growth orientation. Securities in this index tend to exhibit higher price-to-book and price-earnings ratios, lower dividend yields, and higher forecasted growth values than the Value universe.

## Russell 2000 Value Index

This contains those Russell 2000 securities with a lower-than-average growth orientation. Securities in this index tend to exhibit lower price-to-book and price-earnings ratios, higher dividend yields, and lower forecasted growth values than the Growth universe.



# Glossary of Investment Terms and Concepts

## **Russell Midcap Index**

This contains the 800 smallest companies in the Russell 1000 Index, representing approximately 25% of the Russell 1000 Index total market capitalization.

## **Russell Midcap Growth Index**

This contains those Russell Midcap securities with a greater-than-average growth orientation. Securities in this index tend to exhibit higher price-to-book and price-earnings ratios, lower dividend yields, and higher forecasted growth values than the Value universe.

## **Russell Midcap Value Index**

This contains those Russell Midcap securities with a lower-than-average growth orientation. Securities in this index tend to exhibit lower price-to-book and price-earnings ratios, higher dividend yields, and lower forecasted growth values than the Growth universe.

## **Sector**

A particular group of stocks, usually found in one industry or a combination of industries, such as airline or railroad stocks.

## **Separate Account**

An account established by an investment manager for investment of a specific client's assets and maintained exclusively for such assets.

## **Sharpe Ratio**

This is a risk-adjusted measure calculated by using standard deviation and excess return to determine reward per unit of risk. In general, the higher the Sharpe Ratio, the better the fund's historical risk-adjusted performance. The Sharpe ratio is calculated by dividing the fund's annual excess return by the fund's annualized standard deviation.

## **Small Cap**

"Small cap" refers to stock with a small capitalization, which is calculated by multiplying the number of outstanding shares times the price of the shares. Small cap stocks typically have up to \$1 billion in outstanding market value.

## **Standard & Poor's Index (S&P 500)**

Covers 400 industrial, 40 utility, 20 transportation, and 40 financial companies of the US markets (mostly NYSE issues). The index represents about 75% of NYSE market capitalization. It is a capitalization-weighted index calculated on a total return basis with dividends reinvested.

## **Standard Deviation**

A statistical gauge of risk which measures the spread of the difference of returns from their average. The more a portfolio's returns vary from its average, the higher the standard deviation.

## **Top-Down**

A methodical approach to investing in which investors consider current trends in the overall economy, and next selects the industries and then companies that should benefit from such trends. For example, if inflation stays low consumers' spending power will be enhanced; investors may be attracted to retailing companies with the best earnings prospects in the near-term. If rapid inflation is expected, investors might look at the mining industry and then try to determine which particular gold, copper or other mining company might benefit from a rising trend in prices. The opposite approach to top-down investing is a bottom-up method.

## **Tracking Error**

The deviation of a dependent variable (i.e. an investment portfolio) with respect to a reference function (i.e. a benchmark index).

## **Turnover Ratio**

This is a measure of the fund's trading activity that is calculated by taking the lesser of purchases or sales (excluding all securities with maturities of less than one year) and dividing by average monthly assets. The resulting percentage loosely represents the percentage of the portfolio's holdings that have changed over the past year.

## **Universe**

These are composites of managers that share a common investment style and provide a peer analysis of how the fund is performing relative to other investments in the same asset and style category.

# Glossary of Investment Terms and Concepts

## **Up/Down Capture**

The up and down capture is a measure of how well a manager was able to replicate or improve on phases of positive benchmark returns, and how badly the manager was affected by phases of negative benchmark returns. To calculate the up capture, we first form a new series from the manager and benchmark series by dropping all time periods where the benchmark return is zero or negative. The up capture is then the quotient of the annualized return of the resulting manager series, divided by the annualized return of the resulting benchmark series. The down capture is calculated analogously.

## **Value Stock**

A stock that is considered to be a good investment at a desirable price, based on fundamental analysis, such as its P/B and its P/E, among other criteria. Generally, these stocks are contrasted with growth stocks that trade at higher P/E multiples.

# Index Definitions

Name	Description
<b>Bloomberg U.S. Corporate High Yield Bond Index</b>	An index that covers the USD-dominated, non-investment grade, fixed rate, taxable corporate bond market. Debt issues from emerging market countries are excluded. Securities are classified as high-yield if the middle rating is Ba1/BB+ or below.
<b>Bloomberg Emerging Markets Index</b>	An unmanaged index that tracks total returns for external-currency-denominated debt instruments of the emerging markets.
<b>Bloomberg Global Aggregate</b>	Provides a broad-based measure of the global investment-grade fixed income markets. The three major components of this index are the U.S. Aggregate, the Pan-European Aggregate, and the Asian-Pacific Aggregate Indices. The index also includes Eurodollar and Euro-Yen corporate bonds, Canadian government, agency and corporate securities, and USD investment grade 144A securities.
<b>Bloomberg Global Treasury Ex-US</b>	The Global Treasury ex US Index is a subset of the flagship Global Treasury Index that does not have any exposure to US debt. This multi-currency benchmark includes investment grade, fixed-rate bonds issued by governments in their native currencies.
<b>Bloomberg Universal Index</b>	A market value-weighted index which is the union of the U.S. Aggregate Index, U.S. High Yield Corporate Index, Eurodollar Index, U.S. Emerging Markets Index and the CMBS High Yield Index. The Index is appropriate for core plus fixed income mandates.
<b>Bloomberg U.S. Government Index</b>	A market value weighted index of U.S. government and government agency securities (other than mortgage securities) with maturities of one year or more.
<b>Bloomberg U.S. Government/Credit Index</b>	A subcomponent of the Capital Aggregate Index, this benchmark includes treasury securities, government related issues, and high-quality corporate bonds with an outstanding par value of \$250 million or greater and at least one year of maturity remaining.
<b>Bloomberg U.S. High Yield Index</b>	An index composed of non-investment grade corporate debt denominated in U.S. dollars. The issues have to have an outstanding par value of \$150 million or greater and at least one year of maturity remaining.
<b>Bloomberg U.S. Inflation Index</b>	Measures the performance of the U.S. Treasury Inflation Protected Securities ("TIPS") market.
<b>Bloomberg U.S. Intermediate Aggregate Bond Index</b>	A market value-weighted index consisting of U.S. Treasury securities, corporate bonds and mortgage-related and asset-backed securities with one to ten years to maturity and an outstanding par value of \$250 million or greater
<b>Bloomberg U.S. Intermediate Government/Credit Index</b>	A market-value weighted index consisting of government bonds and SEC-registered corporate bonds with one to ten years to maturity and an outstanding par value of \$150 million or greater.
<b>Bloomberg U.S. Intermediate Government Bond Index</b>	An unmanaged index considered representative of intermediate- term fixed-income obligations issued by the U.S. treasury, government agencies and quasi-federal corporations.

# Index Definitions

Name	Description
<b>Bloomberg U.S. Intermediate Treasury</b>	An unmanaged index considered representative of intermediate-term fixed- income obligations issued by the U.S. treasury.
<b>Bloomberg U.S. Aggregate Bond Index</b>	A market value-weighted index consisting of government bonds, SEC-registered corporate bonds and mortgage-related and asset-backed securities with at least one year to maturity and an outstanding par value of \$250 million or greater. This index is a broad measure of the performance of the investment grade U.S. fixed income market.
<b>Bloomberg U.S. Long Credit Bond Index</b>	An unmanaged index considered representative of long-term fixed-income obligations issued by U.S. corporate, specified foreign debentures, and secured notes that meet the specified maturity, liquidity, and quality requirements. To qualify, bonds must be SEC-registered.
<b>Bloomberg U.S. Long Government/Credit Index</b>	The Capital U.S. Government/ Credit Bond Index measures performance of U.S. dollar denominated U.S. treasuries, government-related, and investment grade U.S. corporate securities that have a remaining maturity of greater than or equal to 1 year. In addition, the securities have \$250 million or more of outstanding face value, and must be fixed rate and non-convertible.
<b>Bloomberg U.S. Long-Term Government Bond Index</b>	An unmanaged index considered representative of long-term fixed- income obligations issued by the U.S. treasury, government agencies and quasi-federal corporations.
<b>Bloomberg U.S. TIPS</b>	A market value-weighted index consisting of U.S. Treasury Inflation Protected Securities with one or more years remaining until maturity with total outstanding issue size of \$500m or more.
<b>Bloomberg U.S. Treasury 20-30 Year STRIPS Index</b>	A subcomponent of the Aggregate Index, this benchmark includes long-term treasury STRIPS.
<b>Bloomberg Commodity Index</b>	Consists of 22 exchange-traded futures on physical commodities, which are weighted to account for economic significance and market liquidity. Performance is calculated on an excess return basis and reflects commodity future price movements.
<b>BofA Merrill Lynch 3 Month Treasury Bill</b>	An index that measures the average return of the last three-month U.S. Treasury Bill issues .
<b>BofA Merrill Lynch High Yield Master</b>	A market capitalization-weighted index that tracks the performance of U.S. dollar- denominated, below investment grade corporate debt publicly issued in the U.S. domestic market.

# Index Definitions

Name	Description
<b>Citigroup 90-Day T-Bill Index</b>	An index that measures the average return of the last three-month U.S. Treasury Bill issues
<b>CRSP US Large Growth Cap Index</b>	An index comprised of nearly 330 US large cap growth companies and includes securities traded on NYSE, NYSEMarket, NASDAQ, or ARCA, representing nearly 45% of the U.S. investable equity market. The index is reconstituted quarterly after the market close on the third Fridays of March, June, September, and December. CRSP classifies growth securities using the following factors: future long-term growth in earnings per share (EPS), future short-term growth in EPS, 3-year historical growth in EPS, 3-year historical growth in sales per share, current investment-to-assets ratio, and return on assets.
<b>CRSP US Total Market Index</b>	An index comprised of nearly 4,000 constituents across mega, large, small, and micro capitalizations and includes securities traded on NYSE, NYSE Market, NASDAQ, or ARCA, representing nearly 100% of the U.S. investable equity market. The index is reconstituted quarterly after the market close on the third Fridays of March, June, September, and December.
<b>Credit Suisse Leveraged Loan Index</b>	Designed to mirror the investable universe of the U.S. dollar denominated leveraged loan market.
<b>DJ U.S. Completion Total Stock Market Index</b>	A capitalization-weighted index that consists of the stocks in the Dow Jones U.S. Total Stock Market Index less the stocks in the S&P 500 Stock Index.
<b>DJ U.S. Total Stock Market Index</b>	A capitalization-weighted stock index representing all domestic common stocks traded regularly on the organized exchanges. The index is the broadest measure of the aggregate domestic stock market and includes approximately 5,000 stocks.
<b>FTSE 4Good U.S. Select Index</b>	A socially responsible investment (SRI) index of US stocks that excludes companies with certain business activities such as weapons, tobacco, gambling, alcohol, nuclear power, and adult entertainment
<b>FTSE All-World ex-U.S. Index</b>	A capitalization-weighted stock index representing 46 developed market countries and emerging market countries excluding the U.S.
<b>FTSE EPRA NAREIT Global ex-U.S. Index</b>	Designed to represent general trends in eligible real estate equities worldwide. Relevant real estate activities are defined as the ownership, disposure and development of income-producing real estate.
<b>FTSE Global All Cap ex US Index</b>	A market-capitalization weighted index representing the performance of roughly 5350 large, mid and small cap companies in 46 Developed and Emerging markets worldwide, excluding the USA.
<b>FTSE Global Core Infrastructure Index</b>	Represents the performance of infrastructure and infrastructure-related securities companies in a set of industries that FTSE defines as being involved in infrastructure. The series is based on the FTSE Global Equity Index Series and both developed and emerging markets are included.

# Index Definitions

Name	Description
<b>FTSE NAREIT U.S. Equity REITS</b>	Free float adjusted, market capitalization weighted index of US based equity real estate investment trusts (REITs).
<b>Goldman Sachs Commodity Index</b>	A composite index of commodity sector returns which represents a broadly diversified, unleveraged, long-only position in commodity futures.
<b>HFR Fund-of-Fund Index.</b>	This index is equity-weighted including 800 constituents. It includes both domestic and offshore accounts and is valued in U.S. dollars. Only fund-of-fund products are included in the index that have at least \$50 million under managements and have been actively trading for at least one year. All funds report net returns on a monthly basis.
<b>HFRI Fund Weighted Composite Index</b>	The HFRI Fund Weighted Composite Index is a global, equal-weighted index of over 2,000 single-manager funds that report to HFR Database. Constituent funds report monthly net of all fees performance in US Dollar and have a minimum of \$50 Million under management or a twelve (12) month track record of active performance. The HFRI Fund Weighted Composite Index does not include Funds of Hedge Funds.
<b>Hueler Stable Value Index</b>	The Hueler Analytics Stable Value Pooled Fund Comparative Universe represents investment strategies of \$96 billion in stable value assets, across 24 pooled funds, invested in contracts universe across a universe of 16 general account issuers and 14 synthetic wrap providers. The allocation of pooled fund assets is dominated by synthetic contracts issued by insurance companies and banks.
<b>J.P. Morgan EMBI Global Diversified</b>	Comprised of dollar-denominated Brady bonds, traded loans and Eurobonds issued by emerging market sovereign and quasi-sovereign entities. The Diversified version limits the weights of the index countries by only including a specified portion of those countries' eligible current face amounts of debt outstanding, providing for a more even distribution of weights within the countries in the index.
<b>iMoneyNet All Taxable Money Funds Index</b>	An index made up of the entire universe of money market mutual funds. The index currently represents over 1,300 funds, or approximately 99 percent of all money fund assets.
<b>iMoneyNet Money Fund Average.</b>	An index made up of the entire universe of money market mutual funds. The index currently represents over 1,300 funds, or approximately 99 percent of all money fund assets.
<b>MSCI All Country World ex-U.S. Index</b>	A capitalization-weighted index of stocks representing 44 stock markets in Europe, Australia, the Far East, the Middle East, Latin America and North America. Index consists of 23 developed and 21 emerging countries, but excludes the U.S.
<b>MSCI All Country World ex-U.S. Index IMI-</b>	A capitalization-weighted index of large, mid and small cap stocks representing 22 developed (excluding the United States) and 24 emerging market countries. The index is the broadest measure of the aggregate non-US stock market, covering approximately 99% of the global equity investment opportunity set outside of the United States.

# Index Definitions

Name	Description
<b>MSCI All Country World ex-U.S. Small Cap Index</b>	Covers all investable small cap securities with a market capitalization below that of the companies in the MSCI Standard Indices (excluding U.S.), and target approximately 14% of each market's free-float adjusted market capitalization.
<b>MSCI All Country World Index IMI</b>	A capitalization-weighted index of large, mid and small cap stocks representing 23 developed and 24 emerging market countries. The index is the broadest measure of the aggregate global stock market, covering approximately 99% of the global equity investment opportunity set.
<b>MSCI All Country World Index</b>	A capitalization-weighted index of stocks representing 46 stock markets in Europe, Australia, the Far East, the Middle East, Latin America and North America.
<b>MSCI EAFE Growth Index</b>	A capitalization-weighted index of 21 stock markets in Europe, Australia, Asia and the Far East designed to capture the growth-oriented companies.
<b>MSCI EAFE Small Cap Index</b>	A capitalization-weighted index of small cap stocks representing 23 developed country markets in Europe, Australia, Asia, and the Far East.
<b>MSCI EAFE Value Index</b>	A capitalization-weighted index of 21 stock markets in Europe, Australia, Asia and the Far East designed to capture the value-oriented companies.
<b>MSCI Emerging Markets Index</b>	A capitalization-weighted index of stocks representing 22 emerging country markets.
<b>MSCI U.S. Broad Market Index</b>	A capitalization-weighted stock index that aggregates the MSCI U.S. Large Cap 300, Mid Cap 450, Small Cap 1,750 and Micro-Cap Indices. This index represents approximately 99.5% of the capitalization of the U.S. Equity market and includes approximately 3,562 companies.
<b>MSCI U.S. REIT Index</b>	A broad index that fairly represents the equity REIT opportunity set with proper invest ability screens to ensure that the index is investable and replicable. The index represents approximately 85% of the U.S. REIT universe
<b>MSCI World Index</b>	A free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed markets, representing 24 developed market country indices.
<b>NCREIF Property Index</b>	NCREIF Property Index - A capitalization-weighted index of privately owned investment grade income-producing properties representing approximately \$269 billion in assets.

# Index Definitions

Name	Description
<b>NFI ODCE Index</b>	NFI ODCE Index - A capitalization weighted index comprised of open-end, Core funds investing in commercial real estate properties. The funds that constitute the index are subject to certain geographic and property type diversification requirements as well as leverage restrictions. The index reflects the impact of leverage on investment results. The returns shown in this report are net of management fees of the respective funds included in the index.
<b>Rolling 3-year Constant Maturity Treasury Index</b>	An index published by the Federal Reserve Board based on the monthly average yield of a range of Treasury securities, all adjusted to the equivalent of a three-year maturity.
<b>Russell 1000 Growth Index</b>	An index that measures the performance of those Russell 1000 companies with higher price-to-book ratios and higher I/B/E/S growth forecasts.
<b>Russell 1000 Index</b>	A capitalization-weighted index of the 1,000 largest publicly traded U.S. stocks by capitalization.
<b>Russell 1000 Value Index.</b>	An index that measures the performance of those stocks included in the Russell 1000 Index with lower price-to-book ratios and lower I/B/E/S earnings growth forecasts.
<b>Russell 2000 Growth Index</b>	A capitalization-weighted index of those stocks in the Russell 2000 Index with higher price-to-book ratios and higher I/B/E/S earnings growth forecasts.
<b>Russell 2000 Index</b>	A capitalization-weighted index of the smallest 2,000 stocks in the Russell 3000 Index. The index excludes the largest- and smallest-capitalization issues in the domestic stock market.
<b>Russell 2000 Value Index</b>	An index that measures the performance of those stocks included in the Russell 2000 Index with lower price-to-book ratios and lower I/B/E/S earnings growth forecasts.
<b>Russell 2500 Growth Index</b>	A capitalization-weighted index representing those companies within the Russell 2500 Index with higher price-to-book ratios and higher I/B/E/S earnings growth forecasts.
<b>Russell 2500 Index</b>	The Index is constructed by first identifying the 3,000 largest-capitalization U.S. stocks and ranking them by market capitalizations, choosing the bottom 2,500 names on the list.
<b>Russell 2500 Value Index.</b>	an index that measures the performance of those stocks included in the Russell 2500 Index with lower price-to-book ratios and lower I/B/E/S earnings growth forecasts.



# Index Definitions

Name	Description
<b>Russell 3000 Growth Index</b>	A capitalization-weighted index consisting of those Russell 3000 Index stocks that have higher price-to-book ratios and higher I/B/E/S earnings growth forecasts.
<b>Russell 3000 Index</b>	A capitalization-weighted index consisting of the 3,000 largest publicly traded U.S. stocks by capitalization. This index is a broad measure of the performance of the aggregate domestic equity market.
<b>Russell 3000 Value Index</b>	A capitalization-weighted index consisting of those Russell 3000 Index stocks that have lower price-to-book ratios and lower I/B/E/S earnings growth forecasts.
<b>Russell Mid Cap Growth Index</b>	A capitalization-weighted index representing those stocks in the Russell MidCap Index with higher price-to-book ratios and higher I/B/E/S earnings growth forecasts.
<b>Russell Mid Cap Value Index</b>	A capitalization-weighted index consisting of those Russell MidCap Index stocks that have lower price-to-book ratios and lower I/B/E/S earnings growth forecasts.
<b>S&amp;P 500 Index</b>	A capitalization-weighted index representing stocks chosen by Standard & Poor's, Inc. for their size, liquidity, stability and industry group representation. The companies in the S&P 500 Index are generally among the largest in their industries.
<b>S&amp;P Completion Index</b>	The S&P Completion Index is a sub-index of the S&P Total Market Index, including all stocks eligible for the S&P TMI and excluding all current constituents of the S&P 500. The index covers approximately 4,000 constituents, offering investors broad exposure to mid, small, and micro-cap companies.
<b>S&amp;P GSCI®</b>	Both the first major investable commodity index and one of the most widely recognized benchmarks, the S&P GSCI® is broad-based, production weighted, and meant to be representative of the global commodity market beta.
<b>S&amp;P Leverage Loan Index</b>	A daily total return index that uses LSTA/LPC Mark-to-Market Pricing to calculate market value change.
<b>S&amp;P Midcap 400 Index</b>	A market-capitalization-weighted index of stocks in all major industries in the mid-range of the U.S. stock market.
<b>Wilshire REIT</b>	A measure of the types of U.S. real estate securities that represent the ownership and operation of commercial or residential real estate. To be included in the index, a company must have a market capitalization of \$200 million and have at least 75% of the total revenue derived from the ownership and operation of the real estate assets.

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- Past performance is no guarantee of future results.

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