

August 2018



Endowment Fund Investment Board

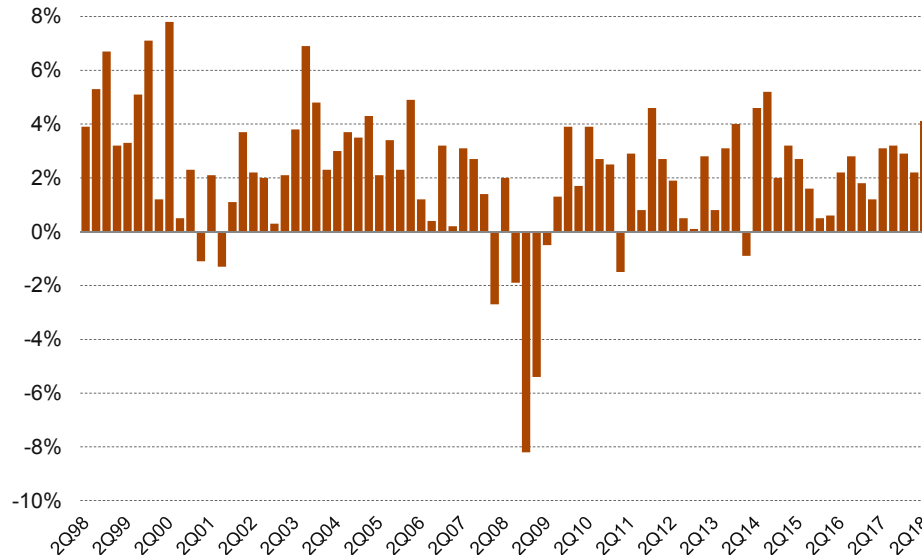
Second Quarter 2018
Performance Review

Janet Becker-Wold, CFA
Senior Vice President

U.S. Economy

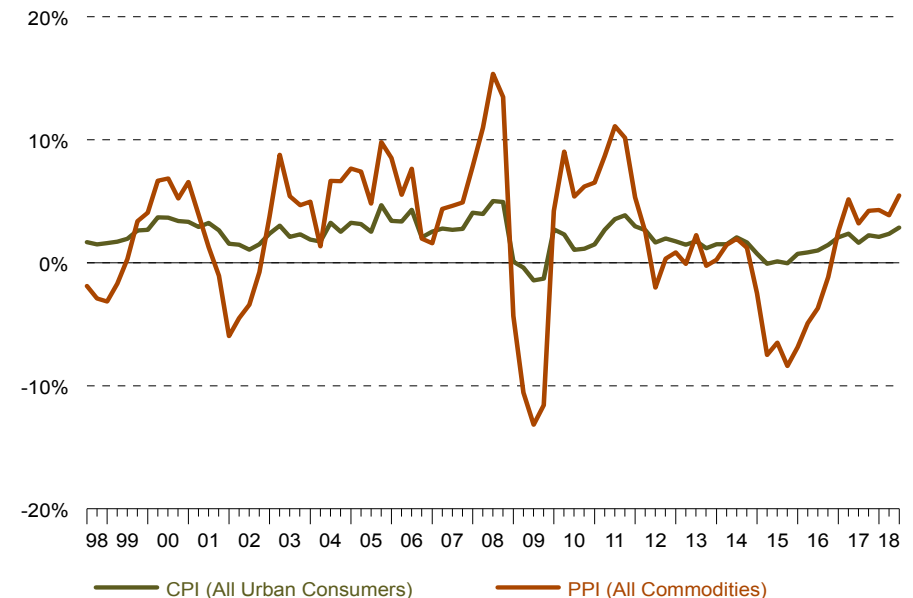
Periods Ending June 30, 2018

Quarterly Real GDP Growth (20 Years)



Source: Bureau of Economic Analysis

Inflation Year-Over-Year



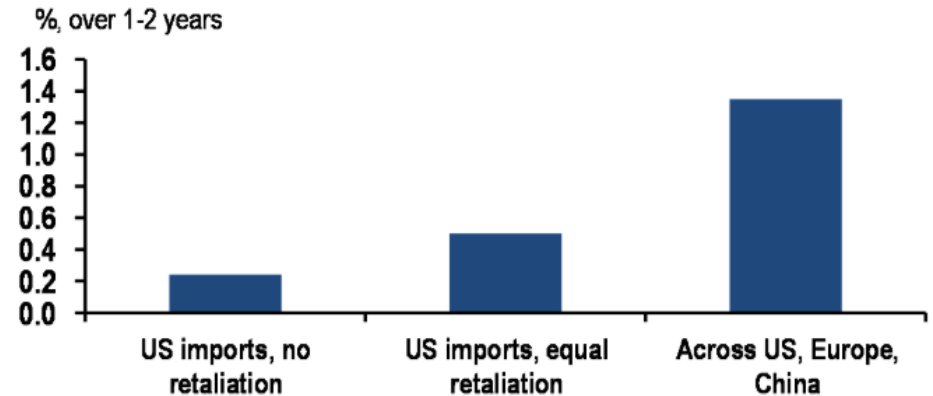
Source: Bureau of Labor Statistics

- The initial estimate of annualized second quarter GDP was 4.1%; below consensus, but dramatically exceeding the first quarter (2.2%).
- June headline CPI rose 2.9% over the trailing twelve months. Core CPI increased 2.3%.
- The unemployment rate dropped (down 0.1%) from March levels to 4.0% in June.
- The Fed increased the target overnight rate by 25 basis points in its June meeting, bringing the target range to 1.75% to 2.00%. The core PCE deflator finally reached the Fed's target of 2% in June.

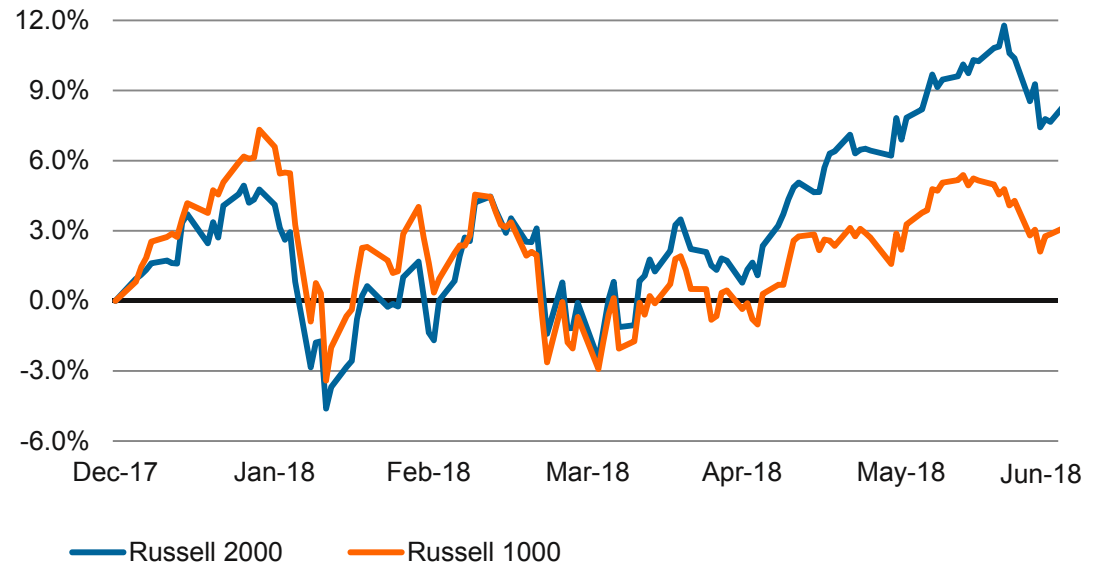
Trade War Impact

- Announced tariffs aren't expected to have a meaningful impact on growth; however, the magnitude ultimately depends on the degree to which other countries retaliate.
- An OECD study that looks at the far larger shock of a 10% across-the-board increase in tariffs by the U.S., euro zone, and China finds that global GDP would fall by 1.4%.
- The more impactful result may be an increase in uncertainty, which tends to precede weaker economic activity.
- Small caps are relatively immune from recent trade talk volatility.
 - Outperformance of small cap stocks in the U.S. year-to-date driven by rising dollar concerns and the higher percent of revenues generated at home (80% vs. 62% for the SP500).

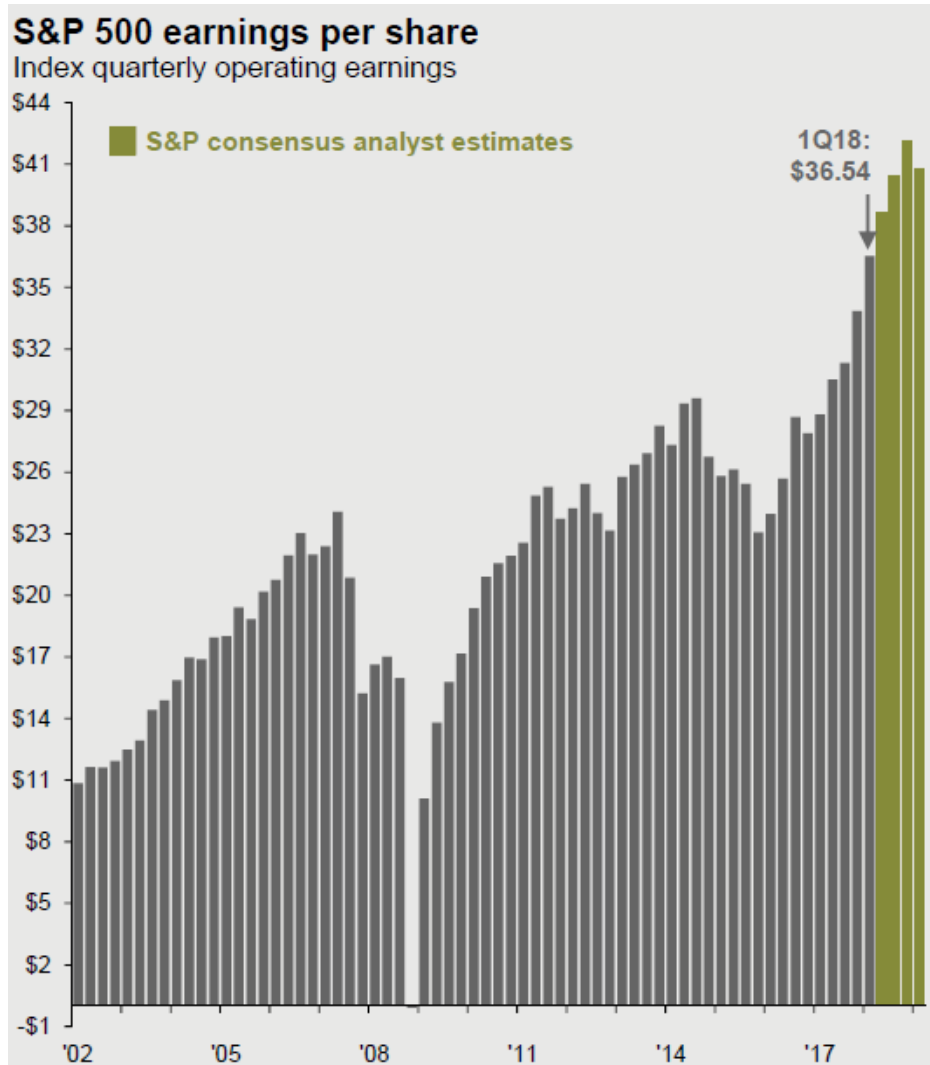
Global GDP impact of 10%-pts tariff increase



Source: IMF, OECD, J.P. Morgan



S&P 500 Earnings



- Through 08/03, 81% of companies in the S&P 500 have reported actual results for the second quarter.
- 80% of S&P 500 companies have reported positive EPS surprises and 74% have reported positive sales surprises.
- The blended earnings growth rate for the S&P 500 is 24.0%.
- All 11 sectors are reporting year-over-year earnings growth for the quarter, led by the Energy sector. Ten sectors are reporting double-digit earnings growth.
- Energy (+125%) and Materials (+54%) show the highest year-over-year earnings growth gains.


Source: FACTSET; Earnings Insight August 3, 2018

Source: JP Morgan Guide to the Markets, 3Q 2018 As of June 30, 2018

Asset Class Performance

Periodic Table of Investment Returns
for Periods Ended June 30, 2018

Best

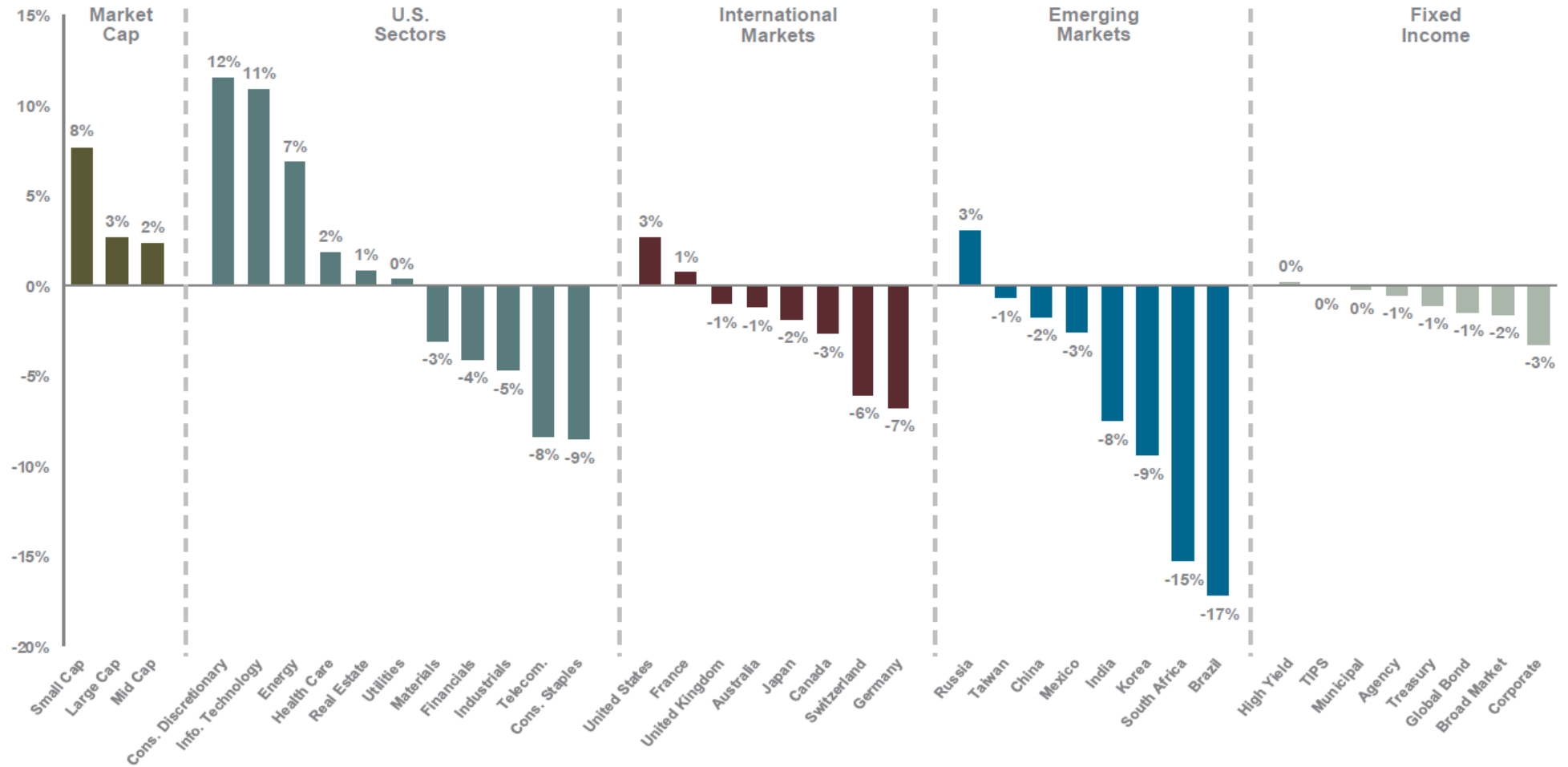


Worst

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years	Last 20 Years
	Russell:2000 Index 7.8%	Russell:2000 Index 17.6%	S&P:500 11.9%	S&P:500 13.4%	Russell:2000 Index 10.6%	MSCI:EM Gross 8.9%
	S&P:500 3.4%	S&P:500 14.4%	Russell:2000 Index 11.0%	Russell:2000 Index 12.5%	S&P:500 10.2%	Russell:2000 Index 8.0%
	3 Month T-Bill 0.5%	MSCI:EM Gross 8.6%	MSCI:EM Gross 6.0%	MSCI:EAFE 6.4%	Blmbg:Aggregate 3.7%	S&P:500 6.5%
	Blmbg:Commodity Price Idx (0.1%)	MSCI:EAFE 6.8%	MSCI:EAFE 4.9%	MSCI:EM Gross 5.4%	MSCI:EAFE 2.8%	Blmbg:Aggregate 4.7%
	Blmbg:Aggregate (0.2%)	Blmbg:Commodity Price Idx 5.8%	Blmbg:Aggregate 1.7%	Blmbg:Aggregate 2.3%	MSCI:EM Gross 2.6%	MSCI:EAFE 4.3%
	MSCI:EAFE (1.2%)	3 Month T-Bill 1.4%	3 Month T-Bill 0.7%	3 Month T-Bill 0.4%	3 Month T-Bill 0.4%	3 Month T-Bill 2.0%
	MSCI:EM Gross (7.9%)	Blmbg:Aggregate (0.4%)	Blmbg:Commodity Price Idx (5.2%)	Blmbg:Commodity Price Idx (6.8%)	Blmbg:Commodity Price Idx (9.3%)	Blmbg:Commodity Price Idx (0.5%)

Year-to-Date Performance of Various Asset Classes

As of June 30, 2018

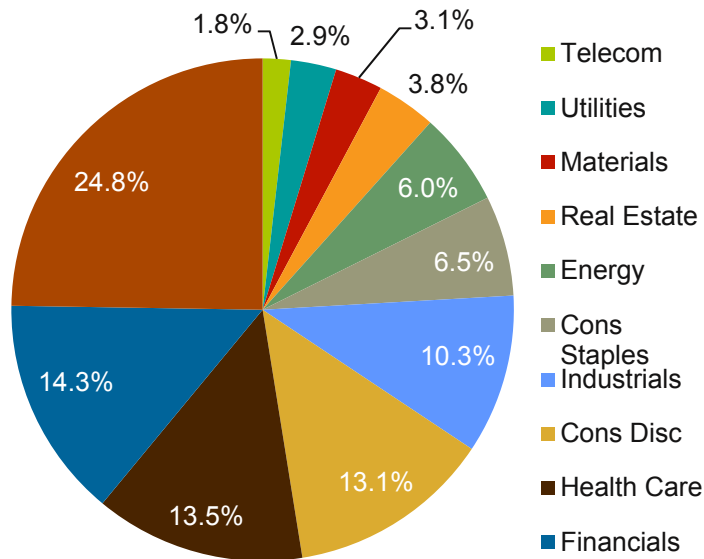


Source: Baird; Morningstar Direct. Asset classes are represented by the following benchmarks: Large Cap (S&P 500), Mid Cap (Russell Mid Cap), Small Cap (Russell 2000), Cons. Discretionary (S&P 500 Sectors/Consumer Discretionary), Cons. Staples (S&P 500 Sectors/Consumer Staples), Energy (S&P 500 Sectors/Energy), Financials (S&P 500 Sectors/Financials), Health Care (S&P 500 Sectors/Health Care), Industrials (S&P 500 Sectors/Industrials), Info. Technology (S&P 500 Sectors/Info. Technology), Materials (S&P 500 Sectors/Materials), Telecom. (S&P 500 sectors /Telecommunications), Utilities (S&P 500 Sectors/Utilities), Real Estate (S&P 500 Sectors/Real Estate), Australia ((MSCI Australia), Canada (MSCI Canada), France (MSCI France), Germany (MSCI Germany), Japan ((MSCI Japan), Switzerland ((MSCI Switzerland), United Kingdom (MSCI United Kingdom), United States (S&P 500), Brazil (MSCI Brazil), China (MSCI China), India (MSCI India), Korea (MSCI Korea), Mexico (MSCI Mexico), Russia (MSCI Russia), South Africa (MSCI South Africa), Taiwan (MSCI Taiwan), Agency (BBgBarc US Agency), Broad Market (BBgBarc US Agg. Bond), Corporate (BBgBarc US Corporate IG), High Yield (BBgBarc US Corporate HY), Municipal (BBgBarc Municipal), TIPS (BBgBarc US Treasury US TIPS), Treasury (BBgBarc US Treasury)

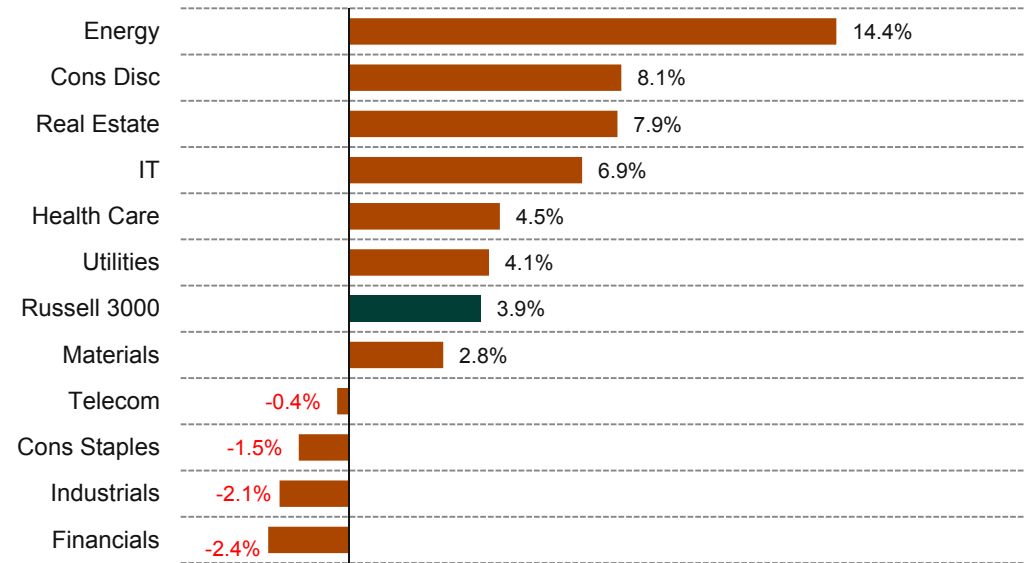
U.S. Equity Returns

Periods Ending June 30, 2018

Economic Sector Exposure (Russell 3000)



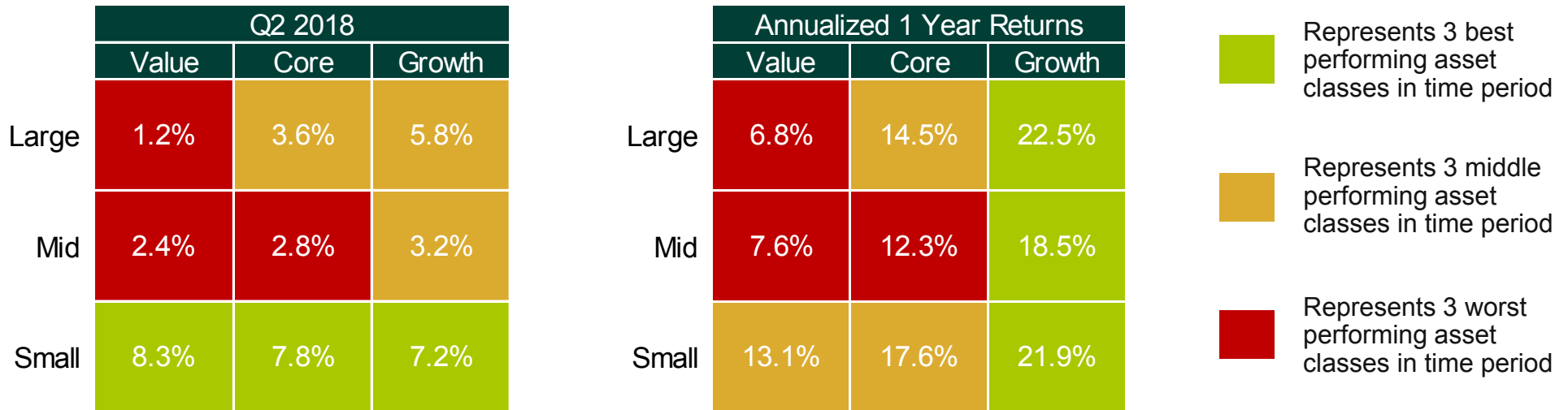
Quarterly Returns (Russell 3000)



- The RU 1000 was up 3.6% in the second quarter. Energy (14.1%) drove gains, while Financials (-3.1%) and Industrials (-2.7%) weighed on returns.
- The RU 2000 was up 7.8%. All sectors in the index were positive for the quarter with Energy (20.4%) and Real Estate (13.3%) generating the strongest performance.
- After a volatile first quarter, the VIX generally trended lower to finish the second quarter at 16.

U.S. Equity Style Returns

Periods Ending June 30, 2018



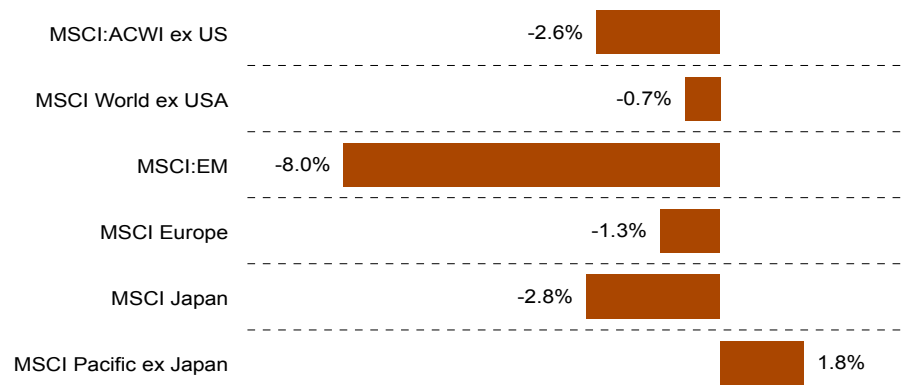
- Last Quarter: Small outperformed large- and mid-cap; growth continued to outpace value in the larger capitalizations, but underperformed among small-caps.
- Last Year: Small-capitalization outperformed large and mid caps; growth outperformed across the cap structure.

Large Cap Core is represented by the Russell 1000 Index, Large Cap Value is represented by the Russell 1000 Value Index and Large Cap Growth is represented by the Russell 1000 Growth Index. Mid Cap Core is represented by the Russell Midcap Index, Mid Cap Value is represented by the Russell Midcap Value Index and Mid Cap Growth is represented by the Russell Midcap Growth Index. Small Cap Core is represented by the Russell 2000 Index, Small Cap Value is represented by the Russell 2000 Value Index and Small Cap Growth is represented by the Russell 2000 Growth Index.

International Equity Returns

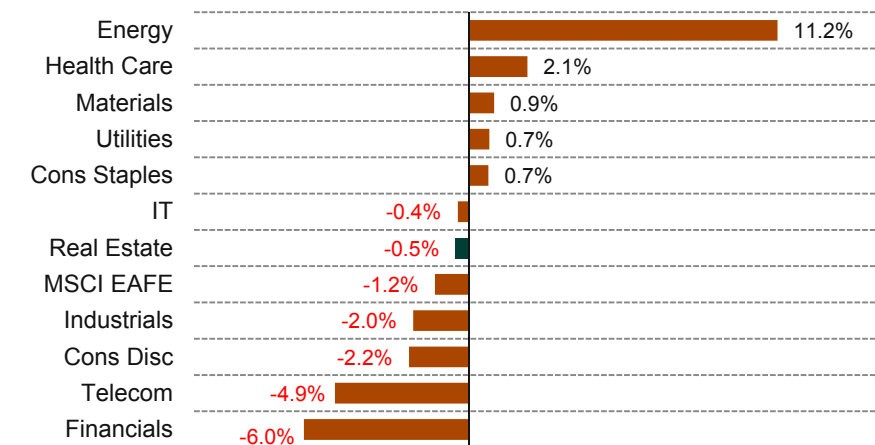
Periods Ending June 30, 2018

Regional Quarterly Performance (U.S. Dollar)



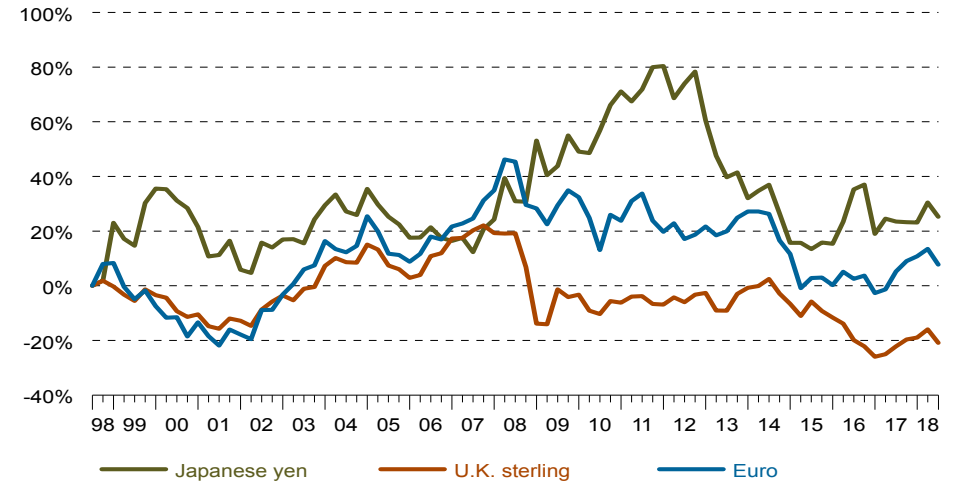
Source: MSCI

MSCI EAFE Sector Returns



Source: Barrow Hanley Quarterly Benchmark Review

Major Currencies' Cumulative Returns (vs. U.S. Dollar)



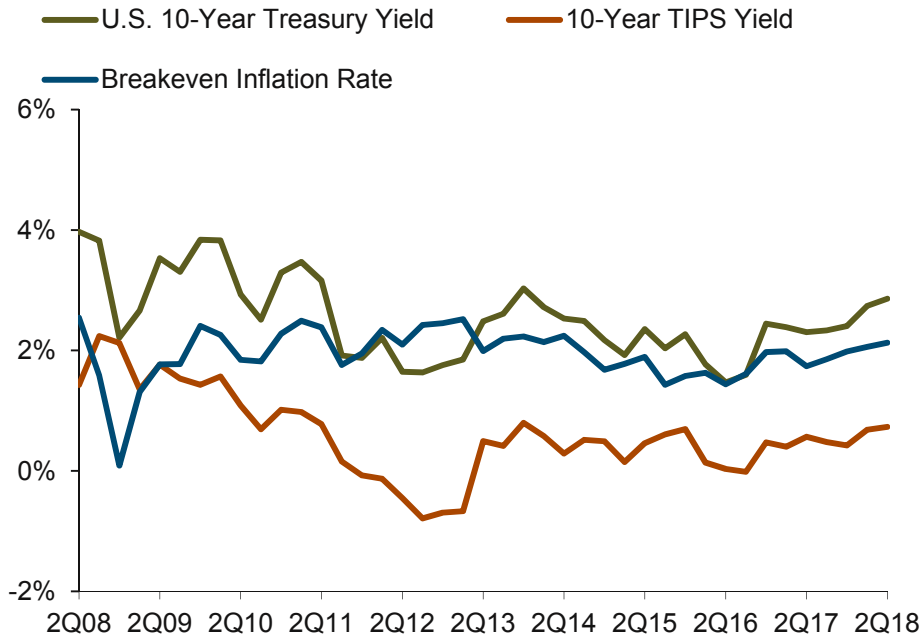
*Euro returns from 1Q99. German mark prior to 1Q99.
Source: MSCI

- Pacific ex Japan was the strongest performing region (+1.8%).
- The dollar appreciated against most major currencies in the second quarter. The pound fell by 5.9%, the euro dropped 5.1% and the yen depreciated by 4.0% against the dollar.
- Energy outshined other sectors in the second quarter, while Financials and Telecom lagged.

Yield Curve Changes

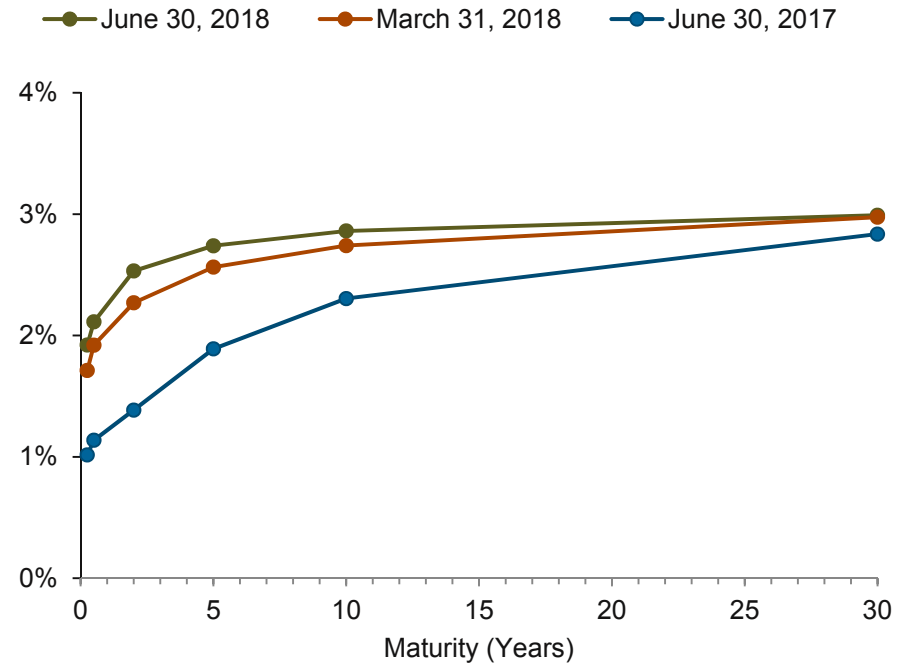
Periods Ending June 30, 2018

Historical 10-Year Yields



Source: Bloomberg

U.S. Treasury Yield Curves



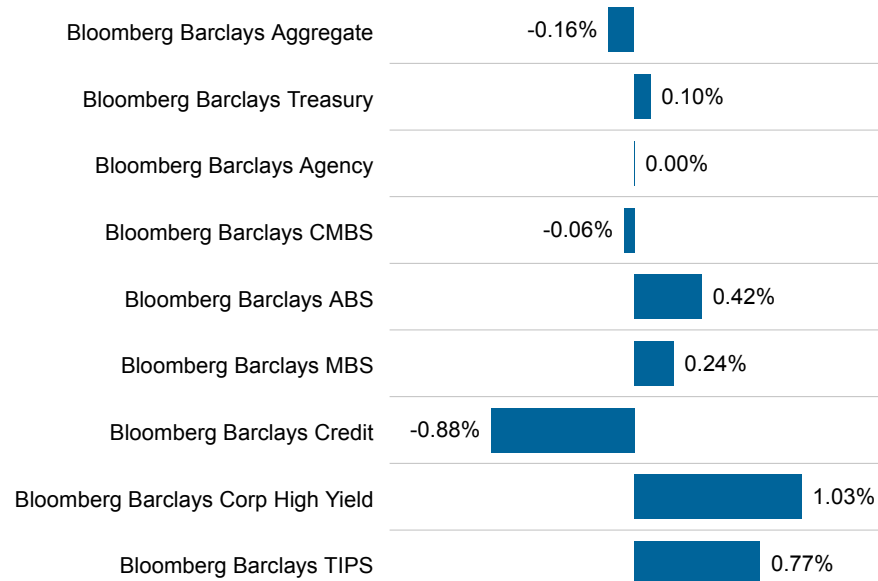
Source: U.S. Department of the Treasury

- The Treasury yield curve continued to flatten during the second quarter. The 2-year yield increased 25 bps during the quarter while the 10-year only increased by 11 bps and the 30-year by 1 bp.
- The spread between the 2- and 10-year is down from 47 bps last quarter to 33 bps.

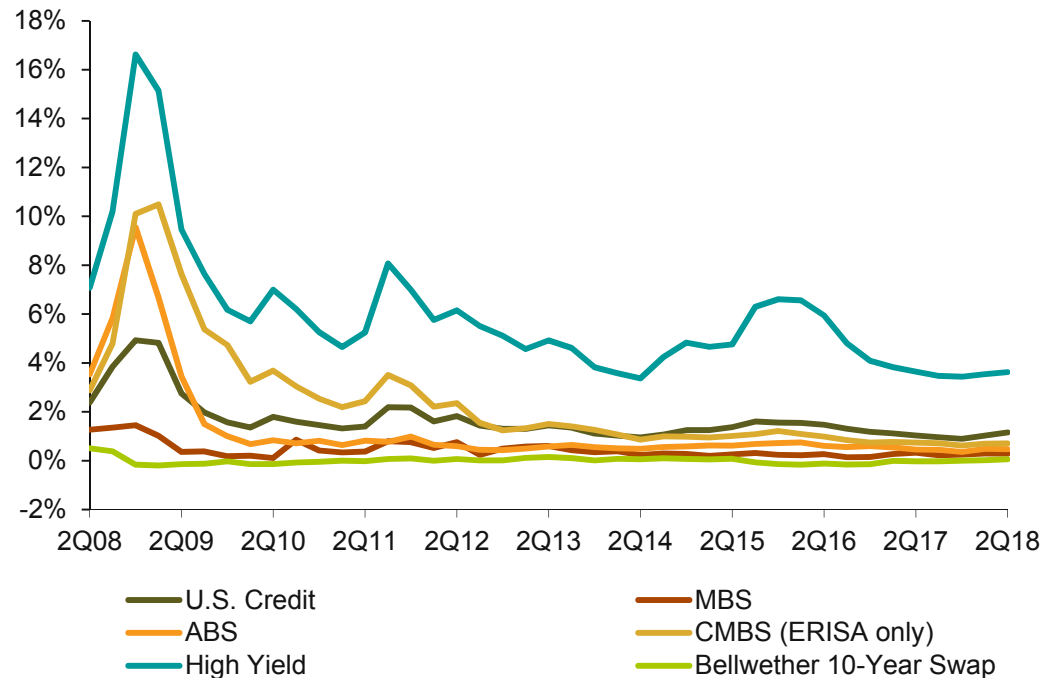
Total Rates of Return by Bond Sector

Periods Ending June 30, 2018

Total Returns



Effective Yield Over Treasuries

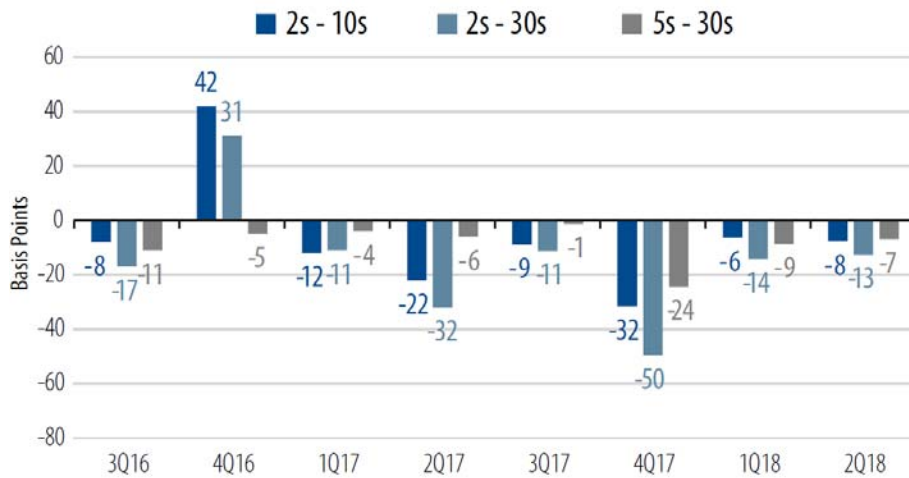


Source: Bloomberg Barclays

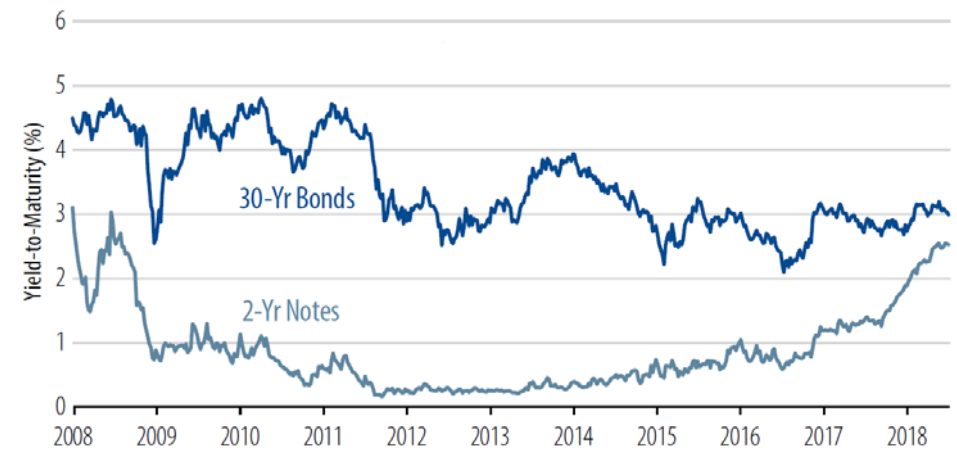
- Fixed income sectors produced mixed results, as strong economic growth and inflation expectations pushed rates higher in the second quarter.
- Investment grade credit was the worst performing sector during the quarter, with spreads widening to their highest levels since 2016.
- High yield credit performed relatively well, as interest payments were only modestly offset by spread widening. TIPS also generated positive returns; fueled by heightened inflation.

Yield Curve Flattening

Quarterly Yield Curve Slope Changes



Treasury Yields



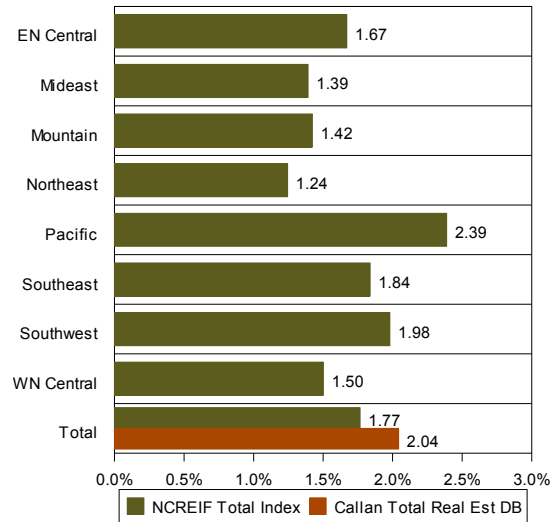
Source: Western Asset; U.S. Department of the Treasury

Source: Western Asset; Bloomberg

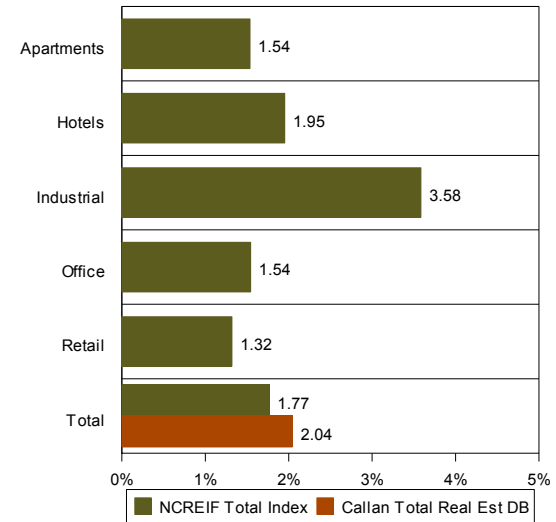
- With the Federal Reserve Bank hiking short-term interest rates, the yield curve is gradually flattening. Many investors are weary of the trend due to the ominous threat of recession which has historically followed an inverted curve.
- The spread between the 2- and 10-year treasury yields is now down to 0.33% from 0.47% at the end of last quarter. The spread between the 10- and 30-year yields shrunk 10 basis points from last quarter to end June at 13 basis points.

Real Estate Overview

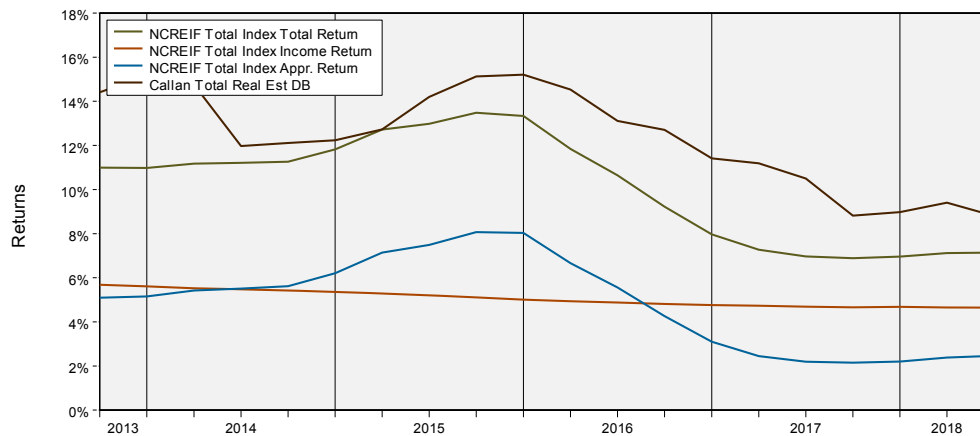
**NCREIF Total Index Returns by Geographic Area
Quarter Ended June 30, 2018**



**NCREIF Total Index Returns by Property Type
Quarter Ended June 30, 2018**



Rolling 1 Year Returns





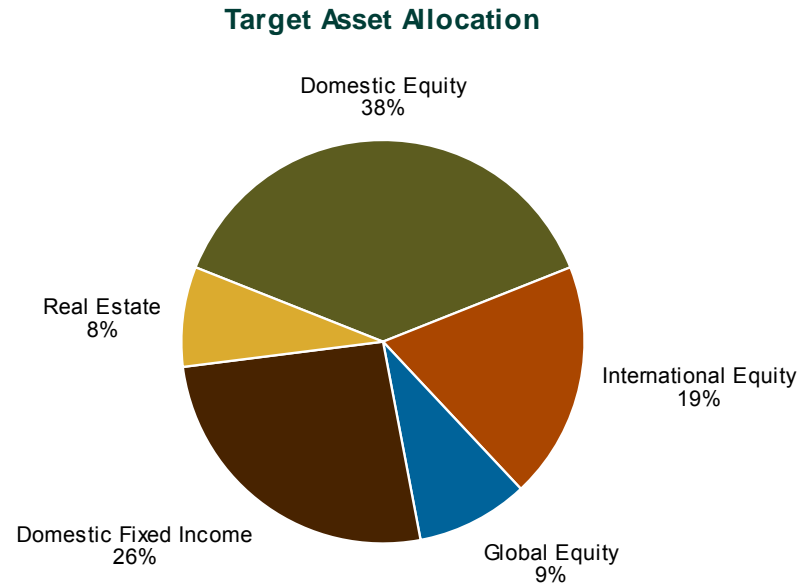
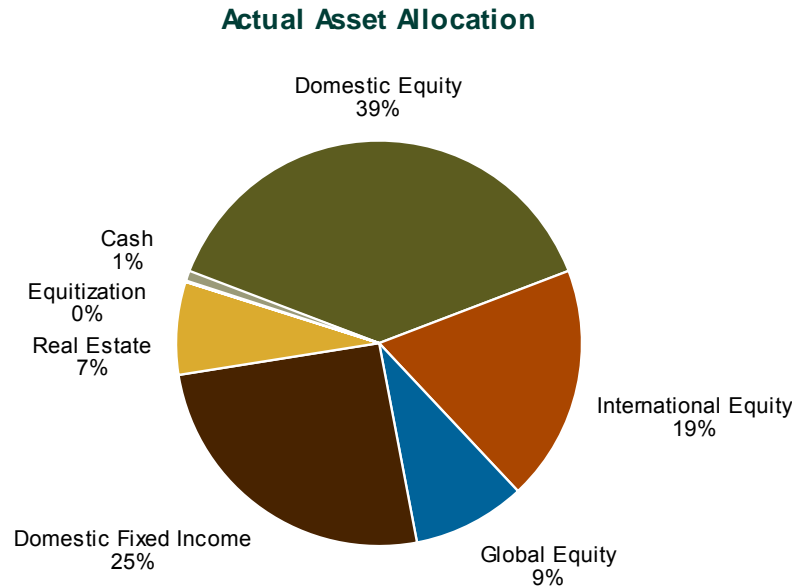
Fund Specific Review

Endowments – Asset Allocation

	June 30, 2018			Inv. Return	March 31, 2018	
	Market Value	Weight	Net New Inv.		Market Value	Weight
Total Equity	\$1,511,215,821	66.26%	\$(9,999,968)	\$27,589,659	\$1,493,626,130	66.06%
Domestic Equity	\$878,597,213	38.52%	\$(9,999,968)	\$32,864,181	\$855,733,000	37.85%
Large Cap	\$595,756,791	26.12%	\$(9,999,968)	\$20,370,632	\$585,386,128	25.89%
NTGI S&P 500 SMA	259,383,550	11.37%	32	8,614,666	250,768,852	11.09%
LSV Asset Mgmt	108,702,968	4.77%	0	(618,118)	109,321,086	4.84%
Boston Partners	110,974,632	4.87%	0	(70,909)	111,045,541	4.91%
Sands Capital	116,695,641	5.12%	(10,000,000)	12,444,992	114,250,649	5.05%
Mid Cap	\$179,618,310	7.88%	\$0	\$5,705,567	\$173,912,743	7.69%
Systematic Financial	88,211,500	3.87%	0	2,857,898	85,353,602	3.78%
Times Square	91,406,810	4.01%	0	2,847,670	88,559,140	3.92%
Small Cap	\$103,222,111	4.53%	\$0	\$6,787,982	\$96,434,129	4.27%
Barrow, Hanley	51,054,840	2.24%	0	2,505,987	48,548,853	2.15%
Eagle Asset Management	52,167,271	2.29%	0	4,281,995	47,885,276	2.12%
International Equity	\$427,704,999	18.75%	\$0	\$(4,691,889)	\$432,396,889	19.12%
Allianz	252,154	0.01%	0	(11,539)	263,693	0.01%
Schroder QEP Intl Value	184,377,149	8.08%	0	(7,348,704)	191,725,853	8.48%
SSgA MSCI EAFE	44,439,331	1.95%	0	(518,314)	44,957,645	1.99%
WCM	198,636,365	8.71%	0	3,186,668	195,449,697	8.64%
Global Equity	\$204,913,609	8.98%	\$0	\$(582,633)	\$205,496,242	9.09%
Aberdeen	103,320,429	4.53%	0	(1,862,432)	105,182,860	4.65%
Fiera	101,340,497	4.44%	0	1,283,278	100,057,219	4.43%
Lazard	252,683	0.01%	0	(3,480)	256,163	0.01%
Domestic Fixed Income	\$581,323,925	25.49%	\$0	\$(236,109)	\$581,560,034	25.72%
State Street Global Advisors	581,323,925	25.49%	0	(236,109)	581,560,034	25.72%
Real Estate	\$168,544,631	7.39%	\$(901)	\$3,293,227	\$165,252,304	7.31%
RREEF America REIT II	86,800,147	3.81%	(901)	1,788,602	85,012,445	3.76%
UBS Trumbull Property	81,744,484	3.58%	0	1,504,625	80,239,859	3.55%
Equitization	\$2,246,610	0.10%	\$(2,500,000)	\$788,990	\$3,957,620	0.18%
Cash	\$17,358,989	0.76%	\$782,475	\$34,686	\$16,541,828	0.73%
Total Plan ex Equitization	\$2,278,443,366	99.90%	\$(9,218,394)	\$30,681,463	\$2,256,980,297	99.82%
Total Plan	\$2,280,689,976	100.0%	\$(11,718,394)	\$31,470,452	\$2,260,937,917	100.0%

+\$19.8 million

Endowments – Asset Allocation

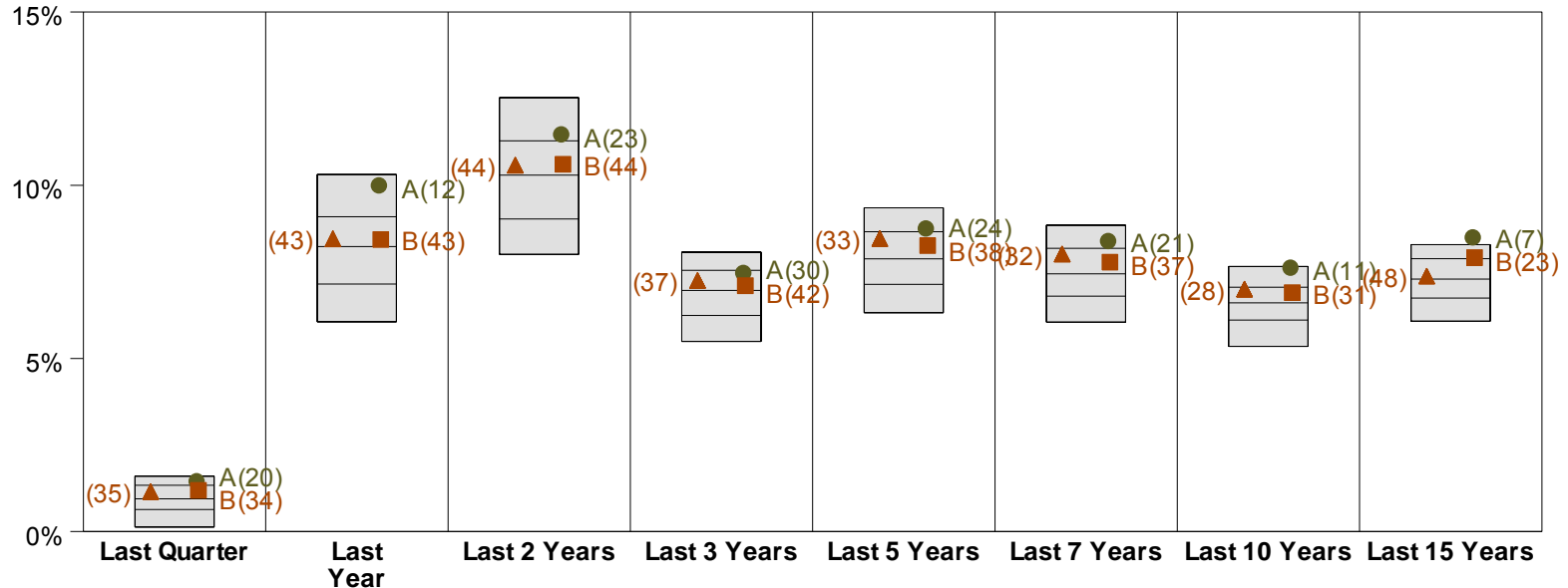


Asset Class	\$000s Actual	Weight Actual	Target	Percent Difference	\$000s Difference
Domestic Equity	878,597	38.5%	38.0%	0.5%	11,935
International Equity	427,705	18.8%	19.0%	(0.2%)	(5,626)
Global Equity	204,914	9.0%	9.0%	(0.0%)	(348)
Domestic Fixed Income	581,324	25.5%	26.0%	(0.5%)	(11,655)
Real Estate	168,545	7.4%	8.0%	(0.6%)	(13,911)
Equitization	2,247	0.1%	0.0%	0.1%	2,247
Cash	17,359	0.8%	0.0%	0.8%	17,359
Total	2,280,690	100.0%	100.0%		

- A new target was approved in the first quarter of 2018 reducing Domestic Equity by 4.2%, increasing International Equity by 3.8%, and increasing Global Equity by 0.4%.

Endowments – Total Fund Performance

Performance vs Callan Public Fund Sponsor Database (Gross)



	Last Quarter	Last Year	Last 2 Years	Last 3 Years	Last 5 Years	Last 7 Years	Last 10 Years	Last 15 Years
10th Percentile	1.60	10.31	12.53	8.07	9.34	8.85	7.65	8.29
25th Percentile	1.34	9.09	11.28	7.54	8.66	8.18	7.05	7.88
Median	0.95	8.23	10.29	6.96	7.87	7.44	6.61	7.29
75th Percentile	0.64	7.15	9.03	6.24	7.14	6.80	6.11	6.74
90th Percentile	0.13	6.06	8.00	5.49	6.32	6.05	5.35	6.07

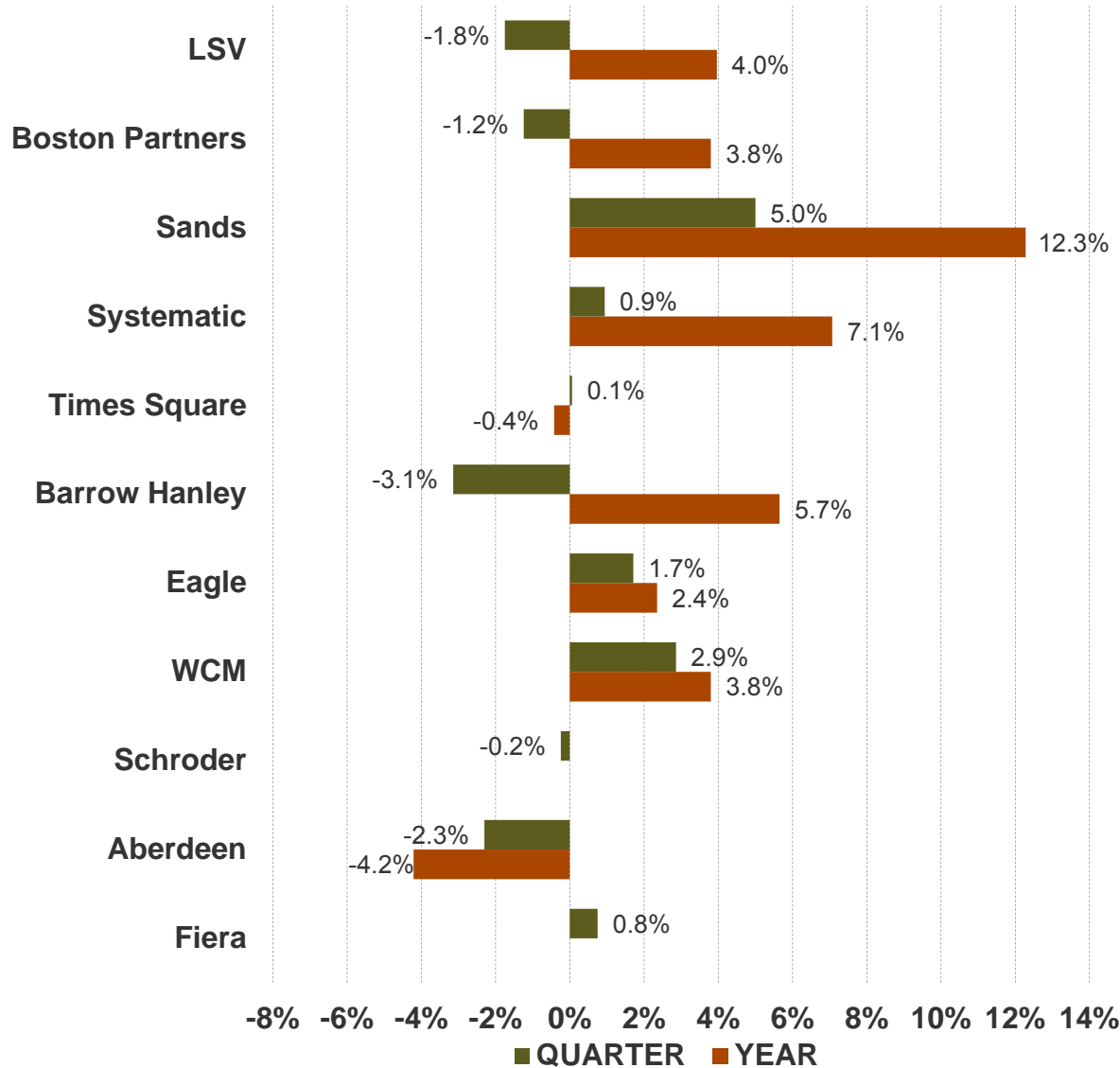
Total Plan	● A	1.40	9.94	11.41	7.41	8.69	8.33	7.56	8.43
Secondary Benchmark	■ B	1.19	8.43	10.60	7.10	8.26	7.78	6.90	7.91

Total Plan Target	▲	1.16	8.45	10.58	7.25	8.46	8.01	7.00	7.38
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- For the quarter, outperformed the target by 24 basis points, ranking 20th percentile.
- For the fiscal year, beat the target by 149 basis points, ranking 12th percentile.
- Fund also ranked 12th percentile against the Endowment/Foundation database for the fiscal year.

Dashboard – All Managers

% Deviation from Benchmark



Quarter:

Below Benchmark:

- LSV
- Boston Partners
- Barrow Hanley
- Schroder
- Aberdeen

Year:

Below Benchmark:

- Times Square
- Aberdeen

Endowments – U.S. Equity Manager Performance

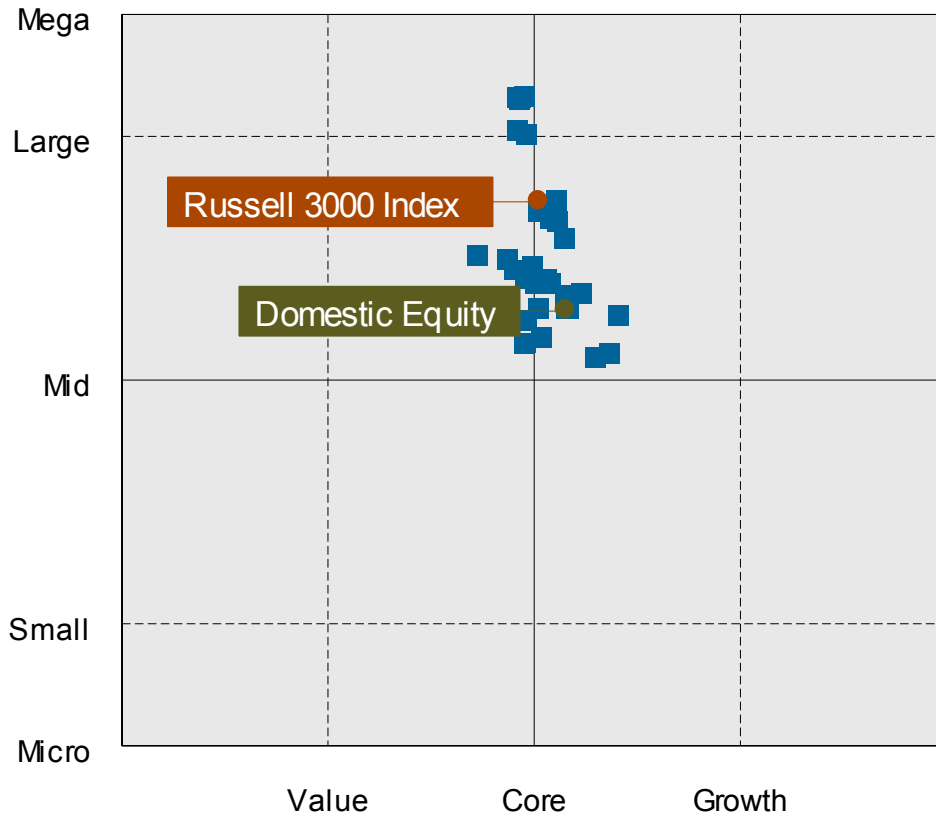
		Last Quarter	Last Year	Last 3 Years	Last 4 Years	Last 5 Years	
-0.1%	Domestic Equity Russell 3000	3.81%	17.22%	11.77%	10.48%	13.48%	
		3.89%	14.78%	11.58%	10.50%	13.29%	
-0.1%	Large Cap Russell 1000	3.44%	16.72%	12.02%	10.78%	13.85%	
		3.57%	14.54%	11.64%	10.56%	13.37%	
	Large Cap Core	3.44%	14.43%	11.93%	10.79%	13.40%	
	NTGI S&P 500 SMA	3.44%	14.43%	11.93%	10.79%	13.40%	
	S&P 500	3.43%	14.37%	11.93%	10.79%	13.42%	
	Large Cap Value	(0.31%)	10.65%	9.27%	8.52%	11.70%	
	LSV Asset Management	(0.57%)	10.73%	9.57%	8.68%	12.34%	
	Boston Partners	(0.06%)	10.57%	8.98%	8.36%	11.09%	
	Russell 1000 Value	1.18%	6.77%	8.26%	7.21%	10.34%	
	Large Cap Growth	10.76%	34.79%	17.73%	15.14%	18.09%	
	Sands Capital	10.76%	34.79%	16.53%	14.38%	18.07%	
	Russell 1000 Growth	5.76%	22.51%	14.98%	13.85%	16.36%	
+0.5%	Mid Cap	3.28%	16.37%	10.26%	8.64%	11.97%	
		Russell MidCap Index	2.82%	12.33%	9.58%	8.83%	12.22%
		Systematic Financial	3.35%	14.67%	9.49%	6.93%	10.82%
		Russell MidCap Value Idx	2.41%	7.60%	8.80%	7.49%	11.27%
		Times Square	3.22%	18.10%	11.01%	10.31%	13.07%
	Russell MidCap Growth Idx	3.16%	18.52%	10.73%	10.41%	13.37%	
-0.7%	Small Cap	7.04%	21.52%	12.79%	11.81%	13.81%	
		Russell 2000	7.75%	17.57%	10.96%	9.83%	12.46%
		Barrow, Hanley	5.16%	18.75%	12.28%	10.58%	13.32%
		Russell 2000 Value	8.30%	13.10%	11.22%	8.51%	11.18%
		Eagle Asset Management	8.94%	24.21%	13.22%	13.00%	14.22%
	Russell 2000 Growth	7.23%	21.86%	10.60%	11.03%	13.65%	

- Underperformance for the quarter was driven by the value managers in large and small cap.
- All U.S equity composites outperformed their benchmarks for the fiscal year.

U.S. Equity Style Map

(\$879 Million; 38.5% of the Portfolio)

Style Map vs Pub Pln- Dom Equity Holdings as of June 30, 2018



- U.S. Equity composite exhibits a modest growth and smaller capitalization bias.
- Index performance for quarter: small cap led mid and large cap.
- Russell 2000 was the strongest market segment for the last year.

Returns
for Periods Ended June 30, 2018

	Last Quarter	Last Year	Last 5 Years	Last 10 Years
Russell:1000 Index	3.6	14.5	13.4	10.2
Russell:Midcap Index	2.8	12.3	12.2	10.2
Russell:2000 Index	7.8	17.6	12.5	10.6

Endowments – International, Fixed Income & RE Performance

	Last Quarter	Last Year	Last 3 Years	Last 4 Years	Last 5 Years
International Equity	(1.09%)	9.23%	5.73%	3.56%	6.75%
International Equity Target (1)	(2.61%)	7.28%	5.07%	2.38%	5.99%
MSCI ACWI x US (Net)	(2.61%)	7.28%	5.07%	2.38%	5.99%
SSgA MSCI EAFE	(1.15%)	7.11%	-	-	-
MSCI EAFE - Net	(1.24%)	6.84%	4.90%	2.54%	6.44%
WCM	1.63%	14.10%	11.77%	9.48%	-
MSCI ACWI ex US Growth	(1.23%)	10.30%	6.95%	4.72%	7.56%
Schroder	(3.83%)	-	-	-	-
MSCI ACWI ex US Value	(3.59%)	5.26%	4.12%	0.95%	5.33%
Global Equity	(0.28%)	8.81%	6.10%	3.83%	6.97%
Aberdeen	(1.77%)	6.52%	5.80%	2.29%	5.65%
Fiera	1.28%	-	-	-	-
MSCI ACWI - Net	0.53%	10.73%	8.19%	6.27%	9.41%
Domestic Fixed Income	(0.04%)	0.00%	1.75%	1.65%	2.19%
State Street Global Advisors	(0.04%)	0.00%	1.75%	1.65%	2.19%
Blmbg Aggregate	(0.16%)	(0.40%)	1.72%	1.75%	2.27%
85% Agg/ 15% TIPS	(0.02%)	(0.02%)	1.75%	1.64%	2.19%
Real Estate	2.12%	7.23%	-	-	-
RREEF America REIT II	2.35%	8.34%	-	-	-
UBS Trumbull Property	1.88%	6.08%	-	-	-
NCREIF ODCE Value Wt Lag	2.20%	8.07%	-	-	-
Cash	0.40%	1.17%	0.55%	0.42%	0.33%
3-month Treasury Bill	0.45%	1.36%	0.68%	0.51%	0.42%
Total Plan ex Equitization	1.36%	9.93%	7.26%	6.14%	8.55%
Total Plan	1.40%	9.94%	7.41%	6.30%	8.69%
Total Plan Target	1.16%	8.45%	7.25%	6.20%	8.46%
Secondary Benchmark	1.19%	8.43%	7.10%	5.99%	8.26%
CPI All Urban Consumers	0.98%	2.87%	1.83%	1.40%	1.54%

- International equity outperformed the target for the quarter and fiscal year.
- Global equity trailed the benchmark for the quarter and fiscal year.
- Fixed income posted losses in the quarter amid rising rates and credit spread widening but is flat to positive for longer trailing periods.
- Real estate lagged the ODCE index over the last quarter and fiscal year.

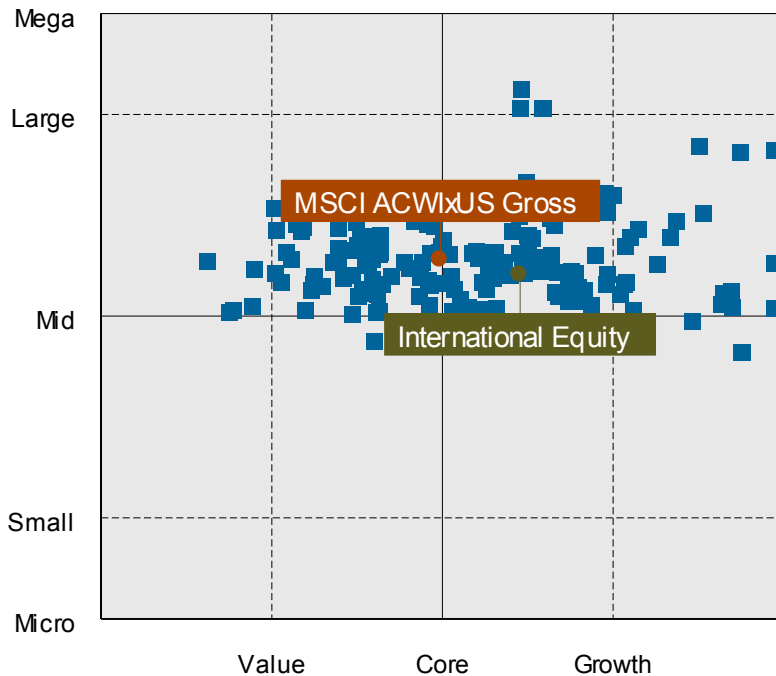
*Current Quarter Target = 38.0% Russell 3000 Index, 26.0% Blmbg Aggregate, 19.0% MSCI ACWI ex US, 9.0% MSCI ACWI and 8.0% NCREIF NFI-ODCE Val Wt Gr lagged 3 months.

**Secondary Benchmark = 26.2% Russell 1000 Index, 22.0% Blmbg Aggregate, 19% MSCI ACWI ex US, 9% MSCI ACWI, 7.6% Russell MidCap Index, 8.0% NCREIF NFI-ODCE Val Wt Gr lagged 3 months, 4.2% Russell 2000 Index and 4.0% Blmbg US TIPS.

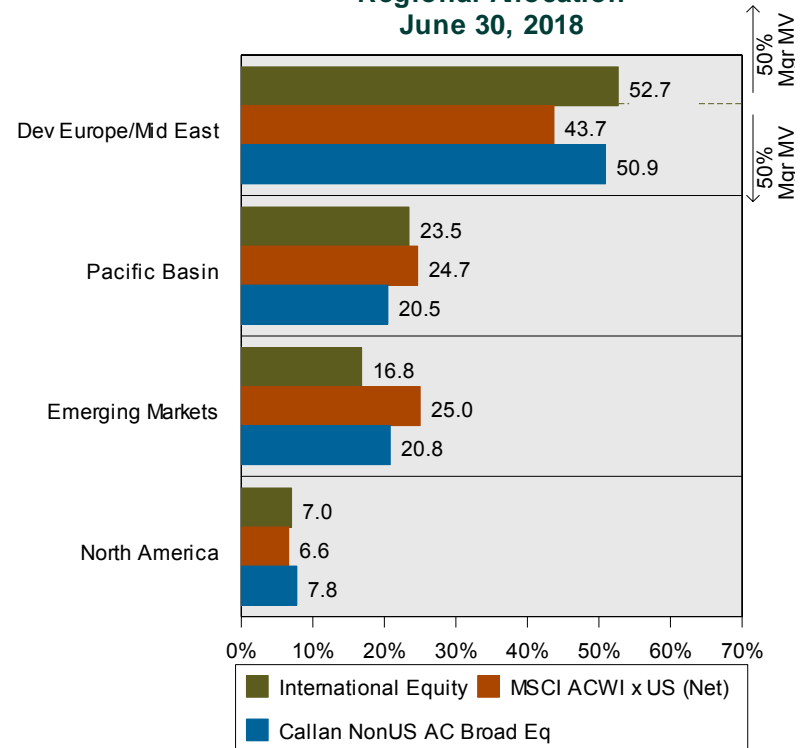
International Equity

(\$428 Million; 18.8% of the Portfolio)

Style Map vs Callan NonUS Eq Holdings as of June 30, 2018



Regional Allocation June 30, 2018



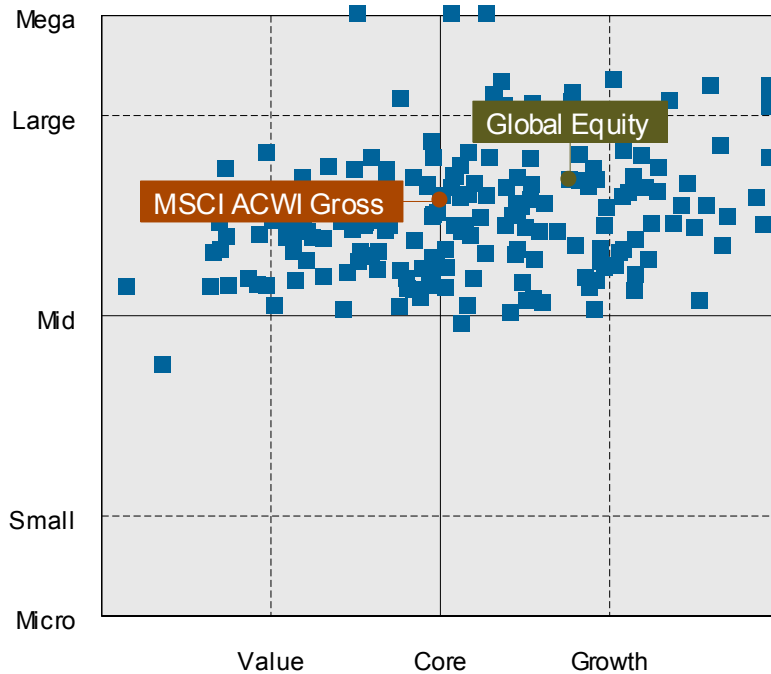
- International composite exhibits a growth bias relative to the Index.
- Portfolio's regional exposure is tilted toward Developed Europe/Middle East and away from Emerging Markets (WCM).

Note: Even though the securities trade on a U.S. exchange, WCM's historical allocation to U.S. holdings have been reassigned to the country of domicile.

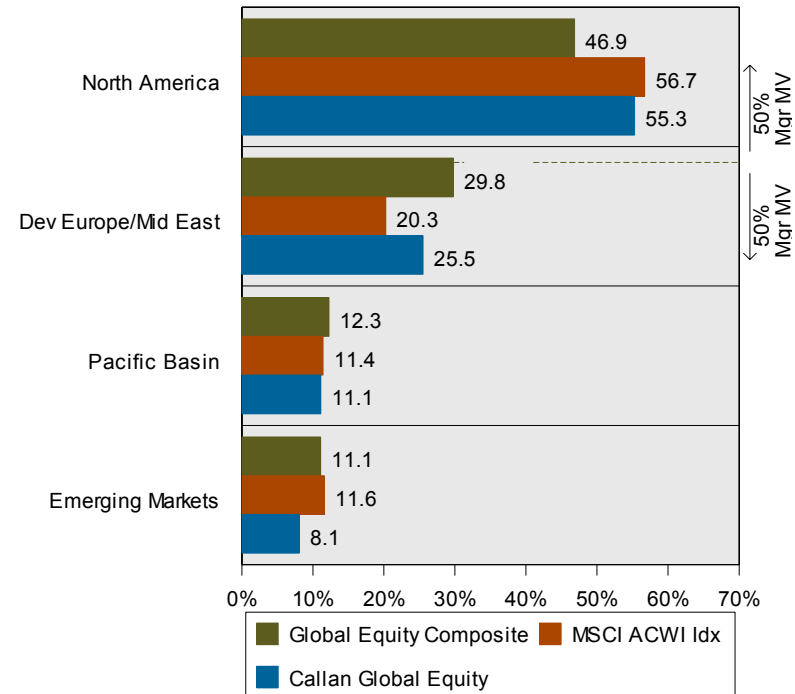
Global Equity

(\$205 Million; 9.1% of the Portfolio)

Style Map vs Callan Global Equity Holdings as of June 30, 2018



Regional Allocation June 30, 2018



- Global composite exhibits a growth bias relative to the Index.
- Portfolio's regional exposure maintains an underweight to North America (Aberdeen).

SIF – Asset Allocation

	June 30, 2018				March 31, 2018	
	Market Value	Weight	Net New Inv.	Inv. Return	Market Value	Weight
Total Equity	\$99,744,407	13.10%	\$(1,790,000)	\$1,619,548	\$99,914,859	13.52%
Domestic Equity	\$70,597,977	9.28%	\$(1,790,000)	\$2,606,920	\$69,781,058	9.44%
Large Cap	\$48,780,202	6.41%	\$(1,335,000)	\$1,640,547	\$48,474,654	6.56%
NTGI S&P 500	48,780,202	6.41%	(1,335,000)	1,640,547	48,474,654	6.56%
Mid Cap	\$14,279,024	1.88%	\$(455,000)	\$464,907	\$14,269,117	1.93%
Systematic Financial	6,936,277	0.91%	(455,000)	236,959	7,154,318	0.97%
Times Square	7,342,747	0.96%	0	227,948	7,114,799	0.96%
Small Cap	\$7,538,752	0.99%	\$0	\$501,465	\$7,037,287	0.95%
Barrow, Hanley	3,583,567	0.47%	0	176,750	3,406,817	0.46%
Eagle Asset Management	3,955,185	0.52%	0	324,715	3,630,470	0.49%
International Equity	\$29,146,430	3.83%	\$0	\$(987,372)	\$30,133,801	4.08%
Vanguard FTSE ex-US	29,146,430	3.83%	0	(987,372)	30,133,801	4.08%
Domestic Fixed Income	\$661,406,710	86.90%	\$21,790,000	\$463,549	\$639,153,161	86.48%
NTGI Blended Fixed Income	594,985,825	78.17%	20,600,000	(20,364)	574,406,189	77.72%
NTGI TIPS	66,420,884	8.73%	1,190,000	483,913	64,746,971	8.76%
Cash	\$3,614	0.00%	\$0	\$3,253	\$361	0.00%
Total Plan	\$761,154,731	100.0%	\$20,000,000	\$2,086,350	\$739,068,381	100.0%

+\$22.1 Million

SIF – Manager Performance

	Last Quarter	Last Year	Last 3 Years	Last 4 Years	Last 5 Years
Total Equity	1.63%	12.79%	9.90%	8.43%	11.38%
Domestic Equity	3.80%	15.47%	11.59%	10.39%	13.07%
Russell 3000	3.89%	14.78%	11.58%	10.50%	13.29%
Large Cap	3.44%	14.34%	11.91%	10.77%	13.33%
Russell 1000	3.57%	14.54%	11.64%	10.56%	13.37%
NTGI S&P 500	3.44%	14.34%	11.91%	10.77%	13.33%
S&P 500	3.43%	14.37%	11.93%	10.79%	13.42%
Mid Cap	3.31%	16.18%	10.22%	8.60%	11.90%
Russell Mid Cap	2.82%	12.33%	9.58%	8.83%	12.22%
Systematic Financial	3.38%	14.49%	9.43%	6.88%	10.74%
Russell MidCap Value	2.41%	7.60%	8.80%	7.49%	11.27%
Times Square	3.20%	17.90%	10.98%	10.26%	13.02%
Russell MidCap Growth	3.16%	18.52%	10.73%	10.41%	13.37%
Small Cap	7.13%	21.41%	12.77%	11.79%	13.77%
Russell 2000	7.75%	17.57%	10.96%	9.83%	12.46%
Barrow, Hanley	5.19%	18.50%	12.24%	10.53%	13.27%
Russell 2000 Value	8.30%	13.10%	11.22%	8.51%	11.18%
Eagle Asset Management	8.94%	24.06%	13.21%	13.01%	14.22%
Russell 2000 Growth	7.23%	21.86%	10.60%	11.03%	13.65%
International Equity	(3.28%)	6.82%	5.18%	2.70%	6.29%
Vanguard FTSE ex-US	(3.28%)	6.82%	5.18%	2.70%	6.29%
MSCI ACWI x US (Net)	(2.61%)	7.28%	5.07%	2.38%	5.99%
Domestic Fixed Income	0.06%	(0.08%)	1.29%	1.35%	1.72%
Domestic Fixed Income Target**	0.07%	(0.11%)	1.29%	1.28%	1.64%
NTGI Blended Fixed Income	(0.02%)	(0.33%)	1.21%	1.37%	1.72%
Blended Benchmark	(0.01%)	(0.36%)	1.22%	1.31%	1.64%
NTGI TIPS	0.73%	2.14%	1.97%	1.03%	1.68%
Blmbg US TIPS	0.77%	2.11%	1.93%	1.00%	1.68%
Total Plan	0.28%	1.63%	2.44%	2.29%	3.02%
Total Plan Target	0.30%	1.48%	2.40%	2.19%	2.88%
CPI All Urban Consumers	0.98%	2.87%	1.83%	1.40%	1.54%

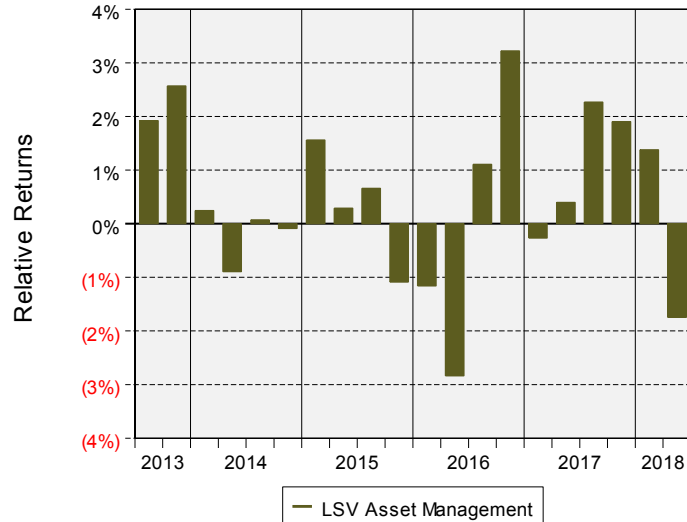
For the Quarter:

- Equities were additive to total plan performance +1.6% (13.1% of portfolio).
- Blended Fixed Income posted a small loss as rates rose on the short end of the curve and credit spreads widened.
- The Total Plan trails the Target by two basis points for the quarter but leads by 15 basis points for the year.
- Total Plan ahead of Target and CPI over the three-, four-, and five-year time periods.

** Domestic fixed income target = 35% Blmbg Int Gov/Credit, 35% Blmbg Agg, 20% ML 1-3 Yr Treasury, 10% Blmbg US TIPS.

LSV – Large Cap Value (\$108.7mm, 4.8%)

Relative Return vs Russell 1000 Value Index



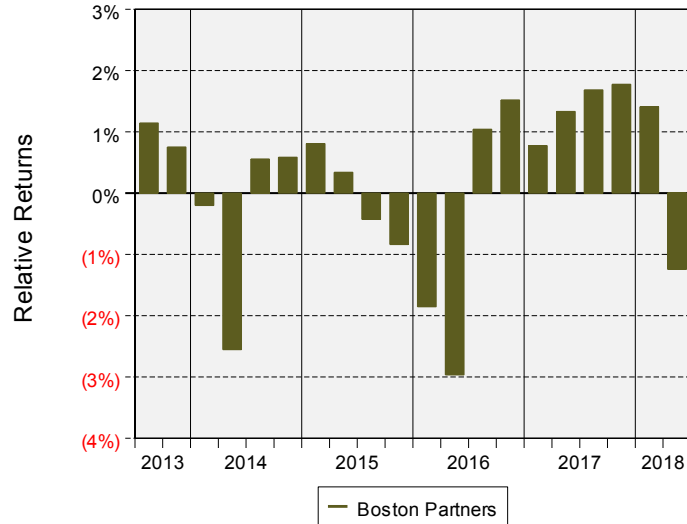
Attribution Effects by Sector vs. Russell 1000 Value Index
One Quarter Ended June 30, 2018

Sector	Manager Eff Weight	Index Eff Weight	Manager Return	Index Return	Sector Concentration	Security Selection	Asset Allocation
Consumer Discretionary	9.65%	6.83%	0.84%	3.39%	0.08%	(0.26)%	-
Consumer Staples	5.46%	7.77%	(3.46)%	(3.47)%	0.11%	0.01%	-
Energy	7.70%	11.50%	13.39%	14.55%	(0.47)%	(0.08)%	-
Financials	29.02%	26.76%	(4.94)%	(3.45)%	(0.12)%	(0.44)%	-
Health Care	13.13%	13.71%	3.56%	2.42%	(0.02)%	0.15%	-
Industrials	6.92%	8.11%	(5.14)%	(2.84)%	0.05%	(0.16)%	-
Information Technology	14.85%	9.39%	(4.04)%	(0.95)%	(0.10)%	(0.47)%	-
Materials	4.29%	2.45%	1.82%	1.42%	(0.01)%	0.02%	-
Real Estate	2.02%	4.67%	14.75%	8.54%	(0.19)%	0.11%	-
Telecommunications	2.96%	2.88%	(3.06)%	(3.07)%	(0.02)%	(0.00)%	-
Utilities	4.01%	5.93%	7.26%	4.21%	(0.05)%	0.11%	-
Non Equity	0.78%	0.00%	-	-	-	-	0.00%
Total	-	-	(0.57)%	1.18%	(0.73)%	(1.01)%	0.00%

- Underperformance was driven by stock selection in the Consumer Discretionary, Financials, and Information Technology sectors.
- An underweight to the Energy sector also detracted as it was the best performing sector in the benchmark for the quarter.

Boston Partners – Large Cap Value (\$111.0mm, 4.9%)

Relative Return vs Russell 1000 Value Index



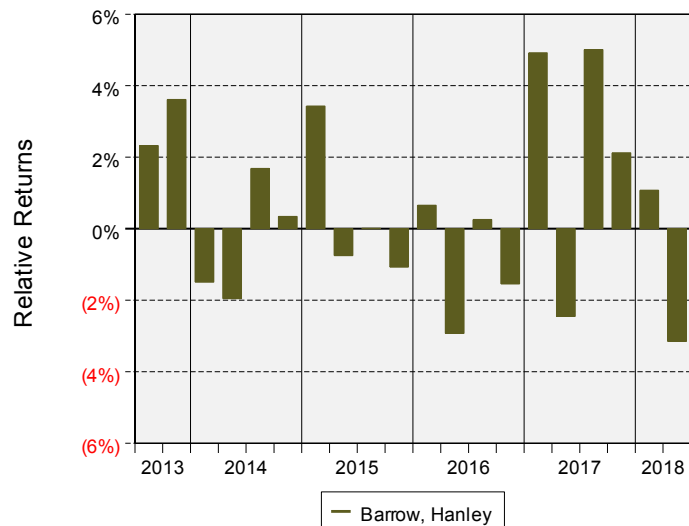
Attribution Effects by Sector vs. Russell 1000 Value Index
One Quarter Ended June 30, 2018

Sector	Manager Eff Weight	Index Eff Weight	Manager Return	Index Return	Sector Concentration	Security Selection	Asset Allocation
Consumer Discretionary	5.53%	6.85%	(1.07)%	3.39%	0.00%	(0.25)%	-
Consumer Staples	1.17%	7.77%	12.28%	(3.47)%	0.26%	0.30%	-
Energy	12.75%	11.48%	13.31%	14.55%	0.14%	(0.14)%	-
Financials	32.69%	26.73%	(3.41)%	(3.45)%	(0.28)%	0.01%	-
Health Care	15.88%	13.70%	0.65%	2.42%	0.01%	(0.33)%	-
Industrials	9.16%	8.11%	(10.79)%	(2.84)%	(0.08)%	(0.79)%	-
Information Technology	14.03%	9.40%	(0.05)%	(0.95)%	(0.09)%	0.13%	-
Materials	5.89%	2.48%	4.42%	1.42%	0.01%	0.18%	-
Real Estate	1.13%	4.67%	3.94%	8.54%	(0.25)%	(0.05)%	-
Telecommunications	1.15%	2.89%	6.53%	(3.07)%	0.05%	0.11%	-
Utilities	0.63%	5.92%	0.35%	4.21%	(0.15)%	(0.02)%	-
Non Equity	2.30%	0.00%	-	-	-	-	(0.02)%
Total	-	-	(0.06)%	1.18%	(0.36)%	(0.85)%	(0.02)%

- Underperformance was driven by stock selection in the Consumer Discretionary, Health Care, and Industrials sectors.
- In particular, the portfolio's airline holdings (Delta and Southwest) within the Industrials sector suffered due to a combination of fears over the economy peaking and rising fuel prices in the first half of 2018.

Barrow Hanley – Small Cap Value (\$51.1mm, 2.2%)

Relative Return vs Russell 2000 Value Index



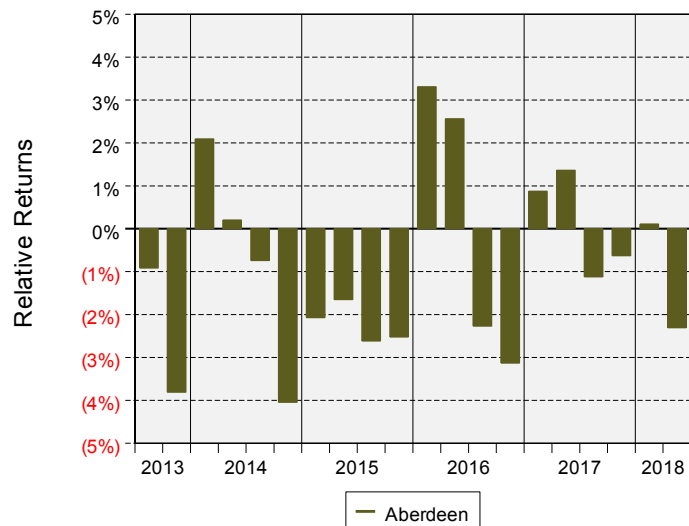
Attribution Effects by Sector vs. Russell 2000 Value Index
One Quarter Ended June 30, 2018

Sector	Manager Eff Weight	Index Eff Weight	Manager Return	Index Return	Sector Concentration	Security Selection	Asset Allocation
Consumer Discretionary	4.68%	10.86%	(0.03)%	8.78%	0.01%	(0.42)%	-
Consumer Staples	2.83%	2.29%	14.91%	6.24%	0.02%	0.23%	-
Energy	2.79%	7.14%	(18.88)%	21.18%	(0.44)%	(1.13)%	-
Financials	13.99%	31.12%	1.94%	4.29%	0.68%	(0.35)%	-
Health Care	4.80%	6.62%	14.68%	11.24%	(0.05)%	0.16%	-
Industrials	31.57%	12.01%	6.65%	8.32%	0.04%	(0.53)%	-
Information Technology	27.27%	8.96%	10.23%	6.84%	(0.21)%	0.93%	-
Materials	12.07%	4.32%	(2.89)%	6.57%	(0.05)%	(1.14)%	-
Real Estate	0.00%	10.05%	0.00%	15.08%	(0.67)%	0.00%	-
Telecommunications	0.00%	0.46%	0.00%	14.95%	0.00%	0.00%	-
Utilities	0.00%	6.18%	0.00%	8.42%	0.02%	0.00%	-
Non Equity	4.07%	0.00%	-	-	-	-	(0.25)%
Total	-	-	5.16%	8.30%	(0.65)%	(2.25)%	(0.25)%

- Underperformance was driven by stock selection in the Energy and Materials sectors.
- The portfolio's energy holding Callon Petroleum was a primary detractor as the stock fell nearly 19% whereas the sector was the best performer in the index, returning over 21%.
- Within the Materials sector the portfolio's allocation to Ferroglobe, a U.K.-based producer of silicon, detracted as the company is caught up in trade tensions impacting key U.S. buyers.

Aberdeen – Global Equity (\$103.3mm, 4.5%)

Relative Return vs MSCI ACWI - Net



10 Worst Performers

Stock	Sector	Ending Market Value	Percent of Portfolio	Qtrly Return	Market Capital	Price/Forecasted Earnings Ratio	Dividend Yield	Forecasted Growth in Earnings
Banco Bradesco S A Sp Adr Pfd New	Financials	\$2,033,126	2.0%	(36.37)%	23.49	8.16	4.30%	20.10%
Mtn Group Ltd Shs	Telecommunications	\$790,381	0.8%	(21.63)%	14.83	16.40	6.49%	82.10%
Fanuc Ltd Shs	Industrials	\$1,470,112	1.4%	(20.76)%	40.54	25.28	2.56%	0.40%
Philip Morris Intl Inc	Consumer Staples	\$831,622	0.8%	(17.61)%	125.51	14.78	5.65%	8.88%
Shin Etsu Chemical Co Ltd Shs	Materials	\$1,773,780	1.7%	(13.86)%	38.11	14.62	1.42%	25.40%
Taiwan Semiconductor Mfg Co Ltd Spon	Information Technology	\$2,241,128	2.2%	(13.37)%	184.13	14.61	3.70%	11.55%
British American Tobacco	Consumer Staples	\$2,295,677	2.2%	(11.64)%	115.98	12.43	3.15%	6.66%
Oversea Chinese Bnkg Corp Lt Shs New	Financials	\$1,406,873	1.4%	(11.40)%	35.80	9.85	3.18%	10.04%
Samsung Electronics Co Ltd Pfd Shs N	Information Technology	\$2,439,931	2.4%	(10.96)%	30.53	5.16	2.83%	-
Keyence Corp Ord	Information Technology	\$2,033,278	2.0%	(9.03)%	68.68	29.90	0.16%	12.50%

- An underweight to U.S. equities hurt performance. From a regional standpoint, Latin America was among the largest detractors. One Brazilian holding in particular, Banco Bradesco, was impacted by adverse sentiment surrounding the forthcoming election, and concerns that dollar strength could impact the country's interest rate expectations.
- At the sector level, Information Technology was the largest detractor from relative performance, impacted by the semiconductor holdings Taiwan Semiconductor and Samsung Electronics, the absence of Apple, and disappointing results from Oracle as it transitions to the Cloud.

Endowments Compliance Report

Ending June 30, 2018

Asset Allocation			
Category	Range	Target	Actual
Equities	63%-69%	66.0%	66.3%
Domestic	33%-43%	38.0%	38.5%
Large cap	21%-31%	26.2%	26.1%
Mid cap	4%-12%	7.6%	7.9%
Small cap	3%-7%	4.2%	4.5%
International	15%-23%	19.0%	18.8%
Global	5-13%	9.0%	9.0%
Fixed Income	23%-29%	26.0%	25.5%
Real Estate	4%-12%	8.0%	7.4%
Cash and Equivalents	0%-5%	0.0%	0.8%

Rebalancing		
Applied when appropriate	Yes	

Performance		
Managers remain in specified style	Yes	
Active managers above median/indices for 3-years	No	See 1 below

Note 1: Boston Partners is above benchmark but below median. Aberdeen is below both benchmark and median.

Note 2: A new target was approved in the first quarter of 2018 reducing Domestic Equity by 4.2%, increasing International Equity by 3.8%, and increasing Global Equity by 0.4%.

SIF Compliance Report

Ending June 30, 2018

Asset Allocation			
Category	Range	Target	Actual
Equities		13.0%	13.1%
Domestic	7%-11%	9.0%	9.3%
Large cap		6.3%	6.4%
Mid cap		1.8%	1.9%
Small cap		0.9%	1.0%
International	2%-6%	4.0%	3.8%
Fixed Income	80%-90%	87.0%	86.9%
Blended Fixed Income		78.4%	78.2%
TIPS		8.6%	8.7%
Cash and Equivalents	0%-3%	0.0%	0.0%

Rebalancing		
Applied when appropriate	Yes	

Performance		
Managers remain in specified style	Yes	
Active managers above median/indices for 3-years	Yes	



APPENDIX

Published Research Highlights

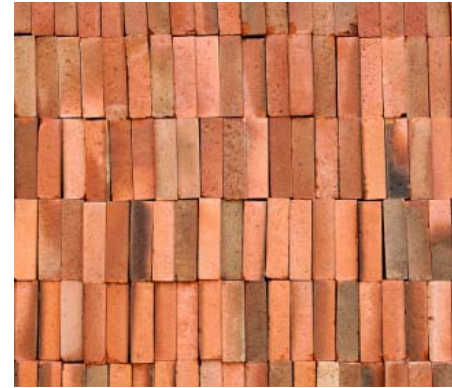
Your Plan Will Face a Cyberattack. Here's How to Prepare.



2018 ESG Survey



China A-Shares: Key Issues for Investors to Consider



Callan Monthly Periodic Table of Investment Returns

2013	2014	2015	2016	2017
Russell 2000 Growth 43.30%	S&P 500 Growth 14.89%	S&P 500 Growth 5.52%	Russell 2000 Value 31.74%	MSCI Emerging Markets 37.28%
Russell 2000 38.82%	S&P 500 13.69%	S&P 500 1.38%	Russell 2000 21.31%	S&P 500 Growth 27.44%
Russell 2000 Value 34.52%	S&P 500 Value 12.36%	Bloomberg Barclays Agg 0.55%	S&P 500 Value 17.40%	MSCI World ex USA 24.21%
S&P 500 Growth 32.75%	Bloomberg Barclays Agg 5.97%	Russell 2000 Growth -1.38%	Bloomberg Barclays High Yield 17.13%	Russell 2000 Growth 22.17%

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Our Take on Crypto-currencies
Mark Wood

Rebalance Your Portfolio, or Let It Ride?
John Jackson

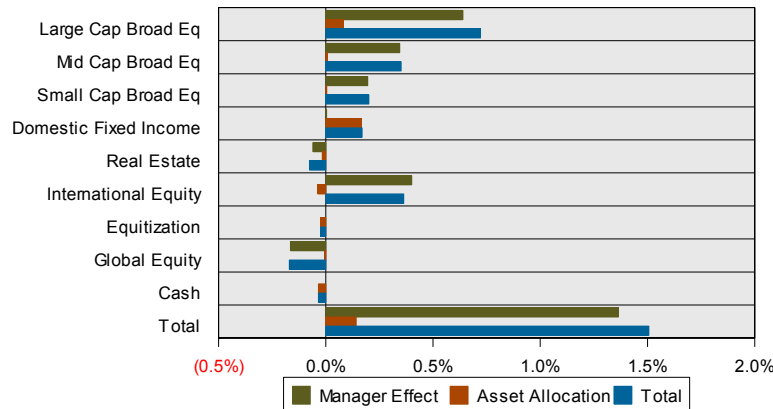
Risk Parity: Silver Bullet or a Bridge Too Far?
Greg Allen

Additional Reading

- Private Markets Trends quarterly newsletter
- June Regional Workshop Summary: Governance Alpha
- Active vs. Passive quarterly Charts
- Capital Market Review quarterly newsletter

Total Fund Attribution vs. Secondary Benchmark

One Year Relative Attribution Effects



One Year Relative Attribution Effects

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap Broad Eq	29%	28%	16.72%	14.54%	0.64%	0.08%	0.72%
Mid Cap Broad Eq	9%	8%	16.37%	12.33%	0.34%	0.01%	0.35%
Small Cap Broad Eq	5%	4%	21.52%	17.57%	0.20%	0.00%	0.20%
Domestic Fixed Income	24%	26%	0.00%	(0.01%)	0.00%	0.17%	0.17%
Real Estate	7%	8%	7.23%	8.07%	(0.06%)	(0.02%)	(0.08%)
International Equity	17%	17%	9.23%	7.28%	0.40%	(0.04%)	0.36%
Equitization	0%	0%	(85.60%)	(85.60%)	0.00%	(0.02%)	(0.02%)
Global Equity	9%	9%	8.81%	10.73%	(0.16%)	(0.00%)	(0.17%)
Cash	0%	0%	1.17%	1.17%	0.00%	(0.03%)	(0.03%)
Total			9.94%	8.43%	+ 1.36%	+ 0.14%	1.51%

- Showing attribution vs. the secondary benchmark allows us to control for the intentional size biases in the portfolio and therefore assess manager skill and style tilts (growth vs. value).
- The domestic and international equity managers added meaningful value in fiscal year 2018.

**Secondary Benchmark = 26.2% Russell 1000 Index, 22.0% Blmbg Aggregate, 19% MSCI ACWI ex US, 9% MSCI ACWI, 7.6% Russell MidCap Index, 8.0% NCREIF NFI-ODCE Val Wt Gr lagged 3 months, 4.2% Russell 2000 Index and 4.0% Blmbg US TIPS.