



## **Plan Investment Review**

#### **STARS**

For period ending December 31, 2017



# Section I Market Overview

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## **Major Headlines From the Quarter and 2017**

#### TAX CUT AND JOBS ACT



The Trump Administration managed its first significant legislative win by passing a new tax bill. The law, which was signed just before Christmas, drastically lowers tax rates for corporations and also provides tax breaks for individuals subject to new tax brackets.

#### GLOBAL ECONOMIC GROWTH ACCELERATED



Economic growth across all major developed economies enjoyed stronger positive momentum throughout 2017, however, inflation pressures remained low. Growth appeared impervious to some of the political rhetoric and geopolitical tensions throughout the year.

#### CAPITAL MARKETS POSTED VERY STRONG RETURNS



Capital markets finished the year on a high note and performance was very strong across all of the major asset classes. The global equity bull market was supported by improving corporate profits and healthy economic fundamentals. The prospect of lower corporate tax rates was a significant tailwind for U.S. equity markets, which registered stellar gains.

#### FEDERAL RESERVE HIKED AGAIN

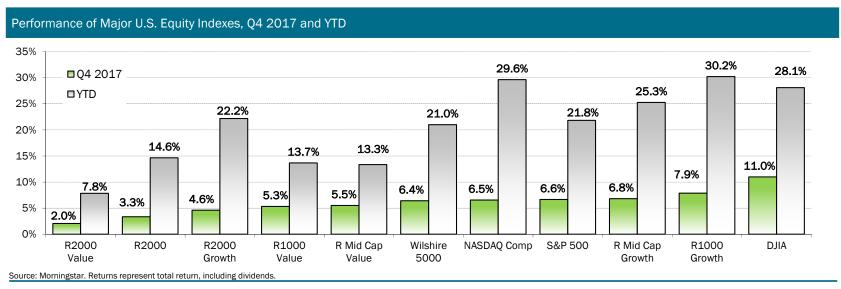


The Federal Reserve increased short-term interest rates in December, its third increase in 2017, and continued the slow process of decreasing its balance sheet. Other major central banks in Europe and Japan maintained their accommodative policies.

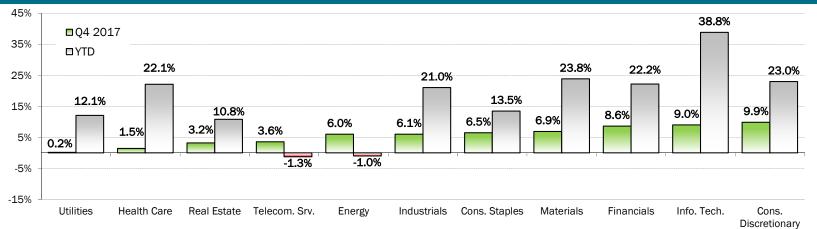


## **U.S.** Equities

The major U.S. equity benchmarks finished the year on a very strong note and all three major indexes set record highs during Q4. Steady revenue growth, healthier margins, share buybacks and the prospect of significantly lower corporate tax rate supported strong equity market performance in 2017.





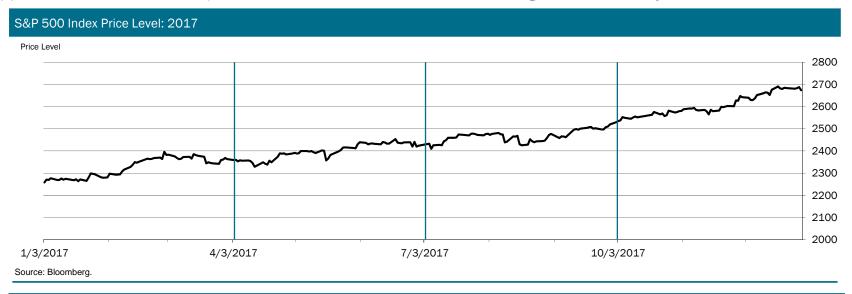


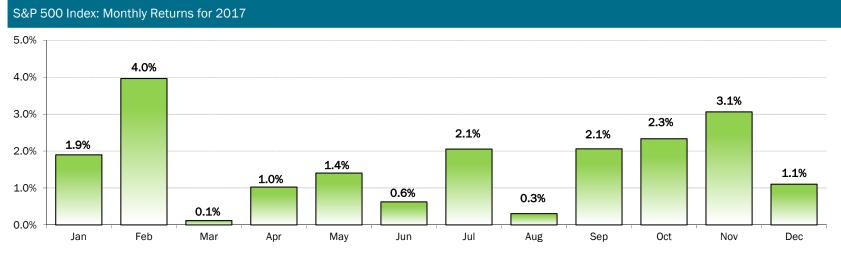
Source: Morningstar. Returns represent cumulative total return, including dividends.



## U.S. Equities – A Banner Year For the S&P 500 Index

Throughout 2017 the S&P 500 Index set 62 record highs, or a new record approximately every four trading days on average. The index also posted a positive monthly return every month in 2017, something that has never happened before. Out of the prior 22 months, the index recorded a negative return only one time.



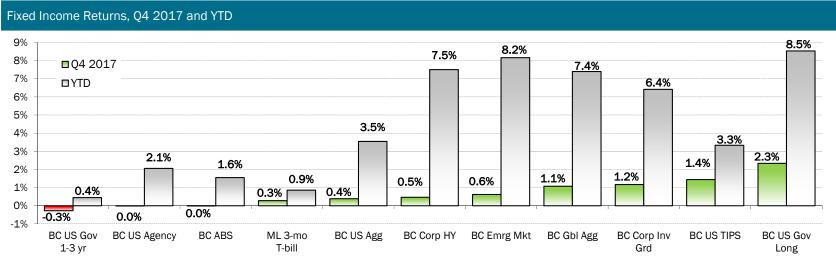


Source: Bloomberg. Returns represent cumulative total return, including dividends. Data as of December 31, 2017.

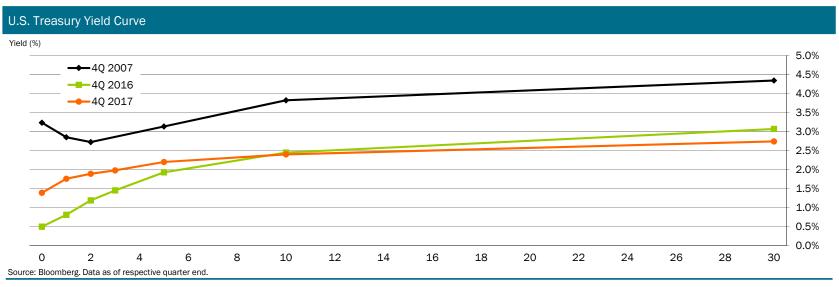


#### **Fixed Income**

Bond benchmarks also posted solid returns in Q4 and for the year. The U.S. Treasury yield curve continued to flatten as the Federal Reserve increased short-term rates for the third time in December. The trend of investors seeking higher yields in riskier sectors of the bond market (i.e. high yield and emerging markets) continued.



Source: Morningstar. Returns represent total return, including dividends.

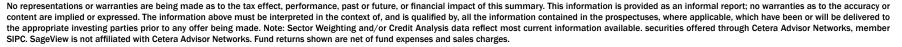






# Asset Allocation by Fund As of 12/31/2017

Fund	% of Plan Assets	Total Assets
MassMutual SAGIC Diversified Bond II	28.71%	\$2,811,976.33
Vanguard 500 Index Admiral	19.11%	\$1,871,680.50
Metropolitan West Total Return Bd I	13.74%	\$1,345,966.34
Vanguard Equity-Income Adm	6.63%	\$649,522.26
Oppenheimer International Growth I	5.27%	\$516,004.70
Pioneer Fundamental Growth K	4.57%	\$447,427.79
Vanguard FTSE Social Index Inv	4.31%	\$422,317.30
Vanguard Mid Cap Index Admiral	3.38%	\$331,303.45
DFA Global Real Estate Securities Port	2.60%	\$254,923.60
JPMorgan Mid Cap Value L	1.36%	\$133,291.08
DFA Emerging Markets Core Equity I	1.34%	\$131,174.47
Vanguard Small Cap Index Adm	1.34%	\$130,966.93
Vanguard Wellington™ Admiral™	1.34%	\$130,899.89
Vanguard Target Retirement 2020 Inv	1.32%	\$129,056.15
MassMutual Select Mid Cap Growth I	1.28%	\$125,657.76
Victory Sycamore Small Company Opp I	0.96%	\$94,490.75
Vanguard Target Retirement 2025 Inv	0.86%	\$84,349.27
DFA US Small Cap Growth Instl	0.67%	\$65,652.35
DFA Intermediate Govt Fixed-Income I	0.40%	\$39,064.98
Vanguard Target Retirement 2030 Inv	0.23%	\$22,933.72
Vanguard Target Retirement 2035 Inv	0.14%	\$13,851.16
Vanguard Target Retirement Income Inv	0.12%	\$11,461.62
Vanguard Target Retirement 2015 Inv	0.09%	\$8,765.12
Vanguard Target Retirement 2050 Inv	0.09%	\$8,618.34
Vanguard Target Retirement 2040 Inv	0.08%	\$7,437.30
Vanguard Target Retirement 2045 Inv	0.05%	\$5,003.44
Total Market Value:	100.00%	\$9,793,796.60

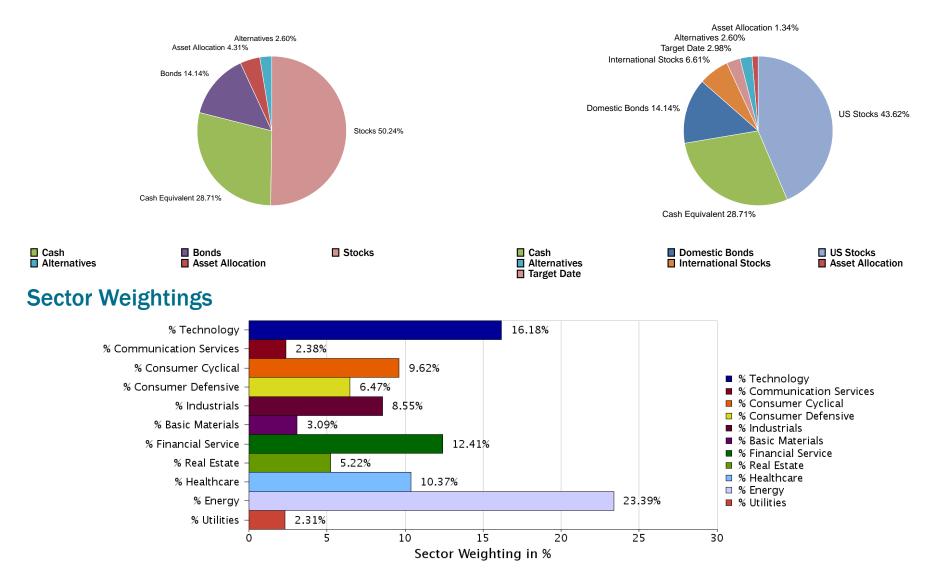




#### **Portfolio Composition - Sector Weightings**

As of 12/31/2017

# Portfolio Composition





Fund Benchmark Category	Asset Class	(%) of Plan	3 Month	YTD	1 Year	3 Years Annualized	5 Years Annualized	10 Years Annualized	Expense Ratio	SageView Ranking
MassMutual SAGIC Diversified Bond II	Stable Value	28.71%	NA	NA	3.30	NA	NA	NA	0.25	NA
BbgBar Stable Income Market Index*			-0.26	1.42	1.42	1.35	1.23	2.80		
Cat: Morningstar US SA Stable Value			0.40	1.54	1.54	1.45	1.40	2.20	0.66	
DFA Intermediate Govt Fixed-Income I	Intermediate Government	0.40%	-0.31	2.22	2.22	1.71	1.32	3.80	0.12	2 <sup>ND</sup> QUAR
BBgBarc US Govt/Mortgage TR USD*			0.09	2.37	2.37	1.60	1.59	3.51		
Cat: Morningstar Intermediate Government			-0.19	1.58	1.58	1.11	1.05	3.18	0.82	
Metropolitan West Total Return Bd I	Intermediate-Term Bond	13.74%	0.38	3.43	3.43	2.05	2.51	5.59	0.44	TOP DEC
BBgBarc US Agg Bond TR USD*			0.39	3.54	3.54	2.24	2.10	4.01		
Cat: Morningstar Intermediate-Term Bond			0.29	3.72	3.72	2.23	2.05	4.06	0.76	
Vanguard Equity-Income Adm	Large Value	6.63%	6.35	18.49	18.49	11.12	14.75	8.84	0.17	TOP DEC
Russell 1000 Value TR USD*			5.33	13.66	13.66	8.65	14.04	7.10		
Cat: Morningstar Large Value			6.00	15.96	15.96	8.67	13.34	6.92	0.99	
Vanguard 500 Index Admiral	Large Blend	19.11%	6.64	21.79	21.79	11.38	15.75	8.49	0.04	Pass
S&P 500 TR USD*			6.64	21.83	21.83	11.41	15.79	8.50		
Cat: Morningstar Large Blend			6.41	20.44	20.44	9.72	14.25	7.60	0.93	
Vanguard FTSE Social Index Inv	Large Blend	4.31%	6.83	24.11	24.11	11.45	17.00	8.61	0.20	Pass
S&P 500 TR USD*			6.64	21.83	21.83	11.41	15.79	8.50		
Cat: Morningstar Large Blend			6.41	20.44	20.44	9.72	14.25	7.60	0.93	
Pioneer Fundamental Growth K	Large Growth	4.57%	4.47	23.19	23.19	11.05	15.86	9.99	0.67	TOP QUAR
Russell 1000 Growth TR USD*			7.86	30.21	30.21	13.79	17.33	10.00		
Cat: Morningstar Large Growth			6.44	27.65	27.65	11.05	15.28	8.30	1.09	
JPMorgan Mid Cap Value L	Mid-Cap Blend	1.36%	4.67	13.67	13.67	8.36	14.10	9.61	0.75	TOP DEC
Russell Mid Cap TR USD*			6.07	18.52	18.52	9.58	14.96	9.11		
Cat: Morningstar Mid-Cap Blend			5.45	15.95	15.95	8.18	13.30	7.86	1.05	

<sup>\*</sup>Investment Policy Benchmark



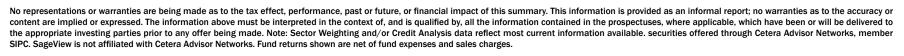
Fund Benchmark Category	Asset Class	(%) of Plan	3 Month	YTD	1 Year	3 Years Annualized	5 Years Annualized	10 Years Annualized	Expense Ratio	SageView Ranking
Vanguard Mid Cap Index Admiral	Mid-Cap Blend	3.38%	5.64	19.25	19.25	9.38	15.01	8.92	0.06	Pass
CRSP US Mid Cap TR USD*	·		5.65	19.30	19.30	9.42	15.07	8.79		
Cat: Morningstar Mid-Cap Blend			5.45	15.95	15.95	8.18	13.30	7.86	1.05	
MassMutual Select Mid Cap Growth I	Mid-Cap Growth	1.28%	4.42	24.66	24.66	11.94	16.66	10.31	0.73	TOP DEC
Russell Mid Cap Growth TR USD*			6.81	25.27	25.27	10.30	15.30	9.10		
Cat: Morningstar Mid-Cap Growth			6.02	23.91	23.91	9.40	13.73	7.67	1.19	
Victory Sycamore Small Company Opp I	Small Value	0.96%	3.19	11.88	11.88	13.16	15.60	10.86	0.96	TOP DEC
Russell 2000 Value TR USD*			2.05	7.84	7.84	9.55	13.01	8.17		
Cat: Morningstar Small Value			3.50	8.54	8.54	8.25	12.23	8.22	1.24	
Vanguard Small Cap Index Adm	Small Blend	1.34%	5.10	16.24	16.24	9.84	14.44	9.68	0.06	Pass
CRSP US Small Cap TR USD*			5.10	16.24	16.24	9.81	14.54	10.03		
Cat: Morningstar Small Blend			3.55	12.30	12.30	8.72	13.00	8.13	1.15	
DFA US Small Cap Growth Instl	Small Growth	0.67%	5.31	16.21	16.21	10.23	14.78	NA	0.40	TOP QUAR
Russell 2000 Growth TR USD*			4.59	22.17	22.17	10.28	15.21	9.19		
Cat: Morningstar Small Growth			4.70	21.50	21.50	9.98	13.98	8.38	1.27	
DFA Global Real Estate Securities Port	Global Real Estate	2.60%	3.72	9.20	9.20	5.43	7.92	NA	0.24	TOP QUAR
FTSE EPRA/NAREIT Developed NR USD*			3.60	10.36	10.36	4.44	6.32	3.28		
Cat: Morningstar Global Real Estate			4.45	15.12	15.12	5.22	6.13	3.04	1.30	
Oppenheimer International Growth I	Foreign Large Growth	5.27%	3.73	27.15	27.15	8.94	8.66	4.67	0.70	2 <sup>ND</sup> QUAR
MSCI ACWI Ex USA Growth NR USD*			5.77	32.01	32.01	9.29	7.97	2.40		
Cat: Morningstar Foreign Large Growth			4.33	30.86	30.86	9.06	8.50	2.74	1.20	
DFA Emerging Markets Core Equity I	Diversified Emerging Mkts	1.34%	7.71	36.55	36.55	9.32	4.73	3.04	0.53	TOP QUAR
MSCI EM NR USD*			7.44	37.28	37.28	9.10	4.35	1.68		
Cat: Morningstar Diversified Emerging Mkts			6.27	34.20	34.20	7.98	4.11	1.64	1.35	

<sup>\*</sup>Investment Policy Benchmark



Fund Benchmark Category	Asset Class	(%) of Plan	3 Month	YTD	1 Year	3 Years Annualized	5 Years Annualized	10 Years Annualized	Expense Ratio	SageView Ranking
Vanguard Wellington™ Admiral™	Allocation–50% to 70% Equity	1.34%	4.53	14.82	14.82	8.50	10.95	7.60	0.16	TOP DEC
Blend (60% Russell 3000 _40% Bar US Agg Bd)*			3.93	13.81	13.81	7.64	10.14	7.07		
Cat: Morningstar Allocation-50% to 70% Equity			3.41	13.21	13.21	5.92	8.03	5.53	1.16	
Vanguard Target Retirement Income Inv	Target-Date Retirement	0.12%	2.03	8.47	8.47	4.46	4.95	4.91	0.13	NA
S&P Target Date Retirement Income TR USD*			2.24	8.54	8.54	4.39	4.86	4.12		
Cat: Morningstar Target-Date Retirement			2.01	8.81	8.81	4.17	4.48	4.07	0.80	
Vanguard Target Retirement 2015 Inv	Target-Date 2015	0.09%	2.73	11.50	11.50	5.62	7.25	5.23	0.14	NA
S&P Target Date 2015 TR USD*			2.85	11.39	11.39	5.82	6.99	4.97		
Cat: Morningstar Target-Date 2015			2.62	11.29	11.29	5.36	6.47	4.44	0.73	
Vanguard Target Retirement 2020 Inv	Target-Date 2020	1.32%	3.36	14.08	14.08	6.61	8.50	5.61	0.14	NA
S&P Target Date 2020 TR USD*			3.20	12.80	12.80	6.48	7.92	5.28		
Cat: Morningstar Target-Date 2020			2.92	12.46	12.46	5.67	6.76	4.54	0.81	
Vanguard Target Retirement 2025 Inv	Target-Date 2025	0.86%	3.87	15.94	15.94	7.31	9.36	5.79	0.14	NA
S&P Target Date 2025 TR USD*			3.73	14.55	14.55	7.20	8.76	5.53		
Cat: Morningstar Target-Date 2025			3.46	14.67	14.67	6.50	7.93	4.94	0.79	
Vanguard Target Retirement 2030 Inv	Target-Date 2030	0.23%	4.21	17.52	17.52	7.85	10.13	5.92	0.15	NA
S&P Target Date 2030 TR USD*			4.24	16.19	16.19	7.87	9.57	5.72		
Cat: Morningstar Target-Date 2030			3.98	16.57	16.57	7.22	8.74	5.12	0.84	
Vanguard Target Retirement 2035 Inv	Target-Date 2035	0.14%	4.62	19.12	19.12	8.39	10.90	6.18	0.15	NA
S&P Target Date 2035 TR USD*			4.71	17.78	17.78	8.51	10.29	5.90		
Cat: Morningstar Target-Date 2035			4.38	18.43	18.43	7.87	9.66	5.40	0.81	
Vanguard Target Retirement 2040 Inv	Target-Date 2040	0.08%	5.00	20.71	20.71	8.91	11.47	6.49	0.16	NA
S&P Target Date 2040 TR USD*			5.03	18.87	18.87	8.95	10.78	6.03		
Cat: Morningstar Target-Date 2040			4.71	19.52	19.52	8.23	10.03	5.49	0.85	

<sup>\*</sup>Investment Policy Benchmark





Fund Benchmark Category	Asset Class	(%) of Plan	3 Month	YTD	1 Year	3 Years Annualized	5 Years Annualized	10 Years Annualized	Expense Ratio	SageView Ranking
Vanguard Target Retirement 2045 Inv	Target-Date 2045	0.05%	5.22	21.42	21.42	9.17	11.64	6.56	0.16	NA
S&P Target Date 2045 TR USD*			5.20	19.56	19.56	9.24	11.15	6.06		
Cat: Morningstar Target-Date 2045			4.90	20.51	20.51	8.55	10.45	5.66	0.82	
Vanguard Target Retirement 2050 Inv	Target-Date 2050	0.09%	5.19	21.39	21.39	9.16	11.63	6.56	0.16	NA
S&P Target Date 2050 TR USD*			5.34	20.18	20.18	9.49	11.48	6.22		
Cat: Morningstar Target-Date 2050			5.01	20.67	20.67	8.62	10.48	5.68	0.86	

<sup>\*</sup>Investment Policy Benchmark



## **Investment Watch List Summary**

Fund Name % of Plan Assets Category	On Watch List Since	Comments	Recommendation
Pioneer Fundamental Growth K 4.57 Large Growth	12/31/2016	(Qualitative) - On December 12, 2016, Pioneer announced that it would be purchased by European asset management firm Amundi from Italian bank Unicredit in the first half of 2017. The acquisition officially closed on July 3, 2017, and the combined firm is now called Amundi Pioneer Asset Management. Concurrent with the closing, Amundi announced a new business line structure based on geographical region. Pioneer has been combined with Amundi's existing US fixed income business, Amundi Smith Breeden (ASB) in Durham, NC, and the consolidated group will now form Amundi's "Americas" business unit. Going forward, the US business will be managed by former Pioneer President and CEO Lisa Jones as Head of the Americas, former ASB CEO Patrice Blanc as COO, former Pioneer US CIO Ken Taubes as CIO of US Investment Management. At a high level, ASB's high quality, benchmark congnizant approach to structured credit markets is expected to complement Pioneer's more aggressive fixed income product suite. Concurrently, Pioneer's fixed income team is also experiencing a consolidation with Amundi's London and Dublin based non US developed and emerging markets credit teams. On September 28, 2017, Pioneer announced that three securitized analysts from ASB and one credit research analyst (covering Transportation and Paper & Packaging) from Pioneer will be let go as part of the Pioneer/ASB merger (out of a combined team of 62 investment professionals). No formal announcements have yet been made concerning plans for product or team changes relating to the merger with Amundi fixed income. With that being said, Amundi is expected to further streamline its non-US corporate teams. Further monitoring is warranted as we await further developments.	Continue On Watch

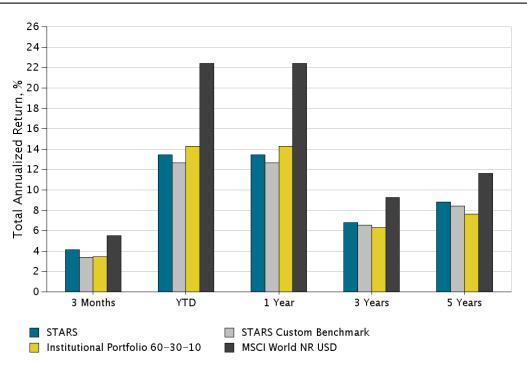




### Portfolio Return vs. Custom Benchmark

As of 12/31/2017

Performance As Of December 31, 2017	3 Month	YTD	1 Year	3 Year	5 Year	Std Dev 5 Yr	Prospectus Exp Ratio
STARS	4.13	13.43	13.43	6.82	8.82	5.16	0.28
STARS Custom Benchmark	3.38	12.67	12.67	6.54	8.40	5.29	NA
STARS Custom Category Averages Benchmark	3.37	12.60	12.60	5.84	7.80	6.38	0.89
Institutional Portfolio 60-30-10	3.45	14.29	14.29	6.32	7.65	5.98	NA
MSCI World NR USD	5.51	22.40	22.40	9.26	11.64	9.85	NA



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Benchmark	Weight
BbgBar Stable Income Market Index	28.71%
S&P 500 TR USD	23.42%
BBgBarc US Agg Bond TR USD	13.74%
Russell 1000 Value TR USD	6.63%
MSCI ACWI Ex USA Growth NR USD	5.27%
Russell 1000 Growth TR USD	4.57%
CRSP US Mid Cap TR USD	3.38%
FTSE EPRA/NAREIT Developed NR USD	2.60%
Russell Mid Cap TR USD	1.36%
MSCI EM NR USD	1.34%
CRSP US Small Cap TR USD	1.34%
Blend (60% Russell 3000 _40% Bar US Agg Bd)	1.34%
S&P Target Date 2020 TR USD	1.32%
Russell Mid Cap Growth TR USD	1.28%
Russell 2000 Value TR USD	0.96%
S&P Target Date 2025 TR USD	0.86%
Russell 2000 Growth TR USD	0.67%
BBgBarc US Govt/Mortgage TR USD	0.40%

Industry Average Expense Ratio Source: 401(k) Averages Book, 16th Edition, published by HR Investment Consultants

The Institutional Portfolio 60-30-10 consists of 60% MSCI World NR USD, 30% BBgBarc US Agg Bond TR USD and 10% ICE BofAML US 3M Trsy Bill TR USD



## Management Style Analysis As of 12/31/2017

#### **Domestic Equity Style Box**

**BLEND VALUE GROWTH** 

LARGE CAP	• Vanguard Equity-Income Adm(\$95.65 bn)	<ul> <li>Vanguard 500 Index Admiral(\$95.53 bn)</li> <li>Vanguard FTSE Social Index Inv(\$87.65 bn)</li> </ul>	Pioneer Fundamental Growth K(\$97.50 bn)
MID CAP		<ul> <li>JPMorgan Mid Cap Value L(\$14.39 bn)</li> <li>Vanguard Mid Cap Index Admiral(\$14.02 bn)</li> </ul>	MassMutual Select Mid Cap Growth I     (\$12.28 bn)
SMALL CAP	Victory Sycamore Small Company Opp I     (\$2.33 bn)	Vanguard Small Cap Index Adm(\$3.94 bn)	DFA US Small Cap Growth Instl(\$2.24 bn)

Average Market Cap. listed in parentheses

