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# State of South Carolina Deferred Compensation Program

Defined Contribution Quarterly Report December 31, 2016

# **Table of Contents**

Economic & Capital Market Highlights	2
Annual Asset Class Performance	3
Defined Contribution Market News	4
Asset Allocation by Plan	6
Fund Monitor	8
Performance Scorecard	10
Plan Revenue Analysis	14
Investment Fee Evaluator	15
Domestic Equity: Large Cap Funds	16
Domestic Equity: Non-Large Cap Funds	20
Global/International Equity Funds	26
Hybrid Funds	30
Fixed Income Funds	43
Backdated Performance Summary	47
Glossary of Terms	48

**Market Update** 

# **Economic & Capital Market Highlights**

December 31, 2016

#### **ECONOMIC**

- US economic growth continued during the quarter:
  - Unemployment fell to 4.6% as labor markets continued to tighten.
  - Core CPI (ex food and energy) rose 2.1% y-o-y through November;
     Headline CPI continued to accelerate, rising by 1.7% y-o-y.
  - Q3 US GDP grew by 3.5%, driven by consumer spending, business fixed investments and exports.
  - US hourly wages increased by 2.9% y-o-y through December, the highest y-o-y increase since 2009.
  - The US Dollar Index rose 7.1% against foreign currencies.
- The Federal Open Market Committee (FOMC) increased rates by 25 bps to a range of 0.5% to 0.75%, marking the second increase in a decade.

#### CAPITAL MARKETS

- US small caps led all markets due to the prospect of deregulation under the pro-growth Trump administration and the rising US dollar.
  - Of note, this occurred despite a decrease in earnings y-o-y.
- · Value stocks outperformed growth stocks.
- Financials (+21.1%) led all sectors in the S&P 500 during the quarter, while healthcare lagged all sectors (-4.0%).
- Yields on the 10-year Treasury rose sharply by 82 bps to 2.4%.
- Real assets were mixed during the quarter: oil (+11.4%), commodities (+2.7%), REITs (-3.0%), gold (-12.4%) and TIPS (-2.4%).
- Within fixed income, all sectors except for high yield (+1.7%) posted declines in the face of rising rates.

#### MARKET PERFORMANCE

	Quarter	1 Year	3 Year	5 Year
S&P 500	3.82	11.96	8.87	14.66
Russell 1000 Index	3.83	12.05	8.59	14.69
Russell 1000 Value Index	6.68	17.34	8.59	14.80
Russell 1000 Growth Index	1.01	7.08	8.55	14.50
Russell 2000 Index	8.83	21.31	6.74	14.46
Russell 2000 Value Index	14.07	31.74	8.31	15.07
Russell 2000 Growth Index	3.57	11.32	5.05	13.74
Russell 3000 Index	4.21	12.74	8.43	14.67
MSCI EAFE Index (Net)	-0.71	1.00	-1.60	6.53
MSCI Emerging Markets (Net)	-4.16	11.19	-2.55	1.28
Blmbg. Barc. U.S. Aggregate	-2.98	2.65	3.03	2.23
Blmbg. Barc. U.S. Treasury	-3.84	1.04	2.29	1.21
Barclays U.S. TIPS	-2.41	4.68	2.26	0.89
Barclays U.S. Corporate	-2.83	6.11	4.23	4.14
Barclays U.S. High Yield	1.75	17.13	4.66	7.36
Barclays U.S. Mortgage	-1.97	1.67	3.07	2.06
Blmbg. Barc. Global Aggregate	-7.07	2.09	-0.19	0.21
NAREIT-All REIT Composite	-2.97	9.37	12.40	11.72

#### **LOOKING AHEAD**

- Global growth expected to improve modestly in 2017, driven by increased US fiscal and corporate spending.
- US market volatility to depend on clarity of Trump policies: trade, Obamacare, immigration and financing of US fiscal spending.
- US large and small cap appear fully valued while emerging markets appear attractively priced versus growth prospects.
- Inflation-sensitive assets may experience a bounce as inflation upside is probable while inflation expectations remain low.
- US corporate earnings expected to expand in 2017.

# **Annual Asset Class Performance**

Decemb	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Best	16.56	55.81	25.55	34.00	32.18	39.38	5.24	78.51	29.09	13.56	18.51	43.30	14.75	5.67	31.74
1	10.27	48.54	23.71	13.54	26.34	11.81	1.80	58.21	26.38	7.84	18.23	35.74	13.69	1.38	20.00
	2.48	46.03	22.25	12.65	23.48	11.63	-0.02	46.29	24.75	4.98	18.05	34.52	13.45	0.66	17.34
	1.70	42.71	20.25	12.10	22.25	11.43	-2.35	37.21	24.50	3.06	17.51	33.48	13.05	0.55	17.13
	-1.37	38.59	16.49	7.05	20.22	11.17	-26.16	34.47	18.88	2.64	17.32	33.46	11.90	0.03	11.96
	-6.17	38.07	15.48	5.26	15.79	7.05	-28.92	34.21	16.71	2.11	16.00	32.53	5.97	-0.20	11.32
	-9.65	30.03	14.31	4.91	13.35	6.97	-36.85	31.78	15.51	0.39	15.81	32.39	5.60	-0.81	11.19
	-11.43	29.75	11.14	4.71	11.86	5.49	-37.00	26.46	15.12	0.06	15.81	22.78	4.22	-1.38	7.33
	-15.52	28.96	10.88	4.15	10.66	4.74	-38.44	20.58	15.06	-1.38	15.26	7.44	3.64	-1.44	7.08
	-15.94	28.68	8.46	3.34	9.07	4.11	-38.44	19.69	7.75	-1.65	14.59	1.51	2.45	-3.83	4.68
	-22.10	8.39	6.30	3.01	4.76	1.87	-38.54	11.41	6.54	-2.91	6.98	0.06	0.67	-4.47	2.65
	-27.41	4.11	4.34	2.84	4.34	-0.17	-43.38	5.93	6.31	-5.50	4.21	-2.02	0.02	-4.78	2.09
	-27.88	2.04	3.34	2.74	2.52	-1.42	-44.32	2.81	1.44	-12.14	1.76	-2.60	-2.19	-7.47	1.00
Worst	-30.26	1.09	1.24	2.43	0.49	-9.78	-53.33	0.16	0.10	-18.42	0.09	-8.61	-4.90	-14.92	0.27
	S&P 500	Russell 100 Value	Russell 10 Growth		Midca	p Russell Valu		2000 MSCI Index		SCI EM Net)*		rclays US igh Yield	Barclays US TIPS	3 Month T- Bill	СРІ

- According to the Congressional Budget Office, Social Security will not be able to pay full benefits beyond 2029.
  - The \$905 billion spent for Social Security in fiscal year 2016 accounted for 25% of federal spending or 5% of US GDP.
- The IRS announced 2017 limits on contributions to retirement savings vehicles.
  - The maximum employee contribution to an employer-sponsored defined contribution plan remains \$18,000.
    - The maximum catch-up contribution for participants age 50 and older remains \$6,000.
  - The maximum total contribution (employee and employer) to an employer-sponsored defined contribution plan increased from \$53,000 to \$54,000.
  - The maximum IRA contribution limit remains \$5,500.
    - The maximum catch-up contribution for participants age 50 and older remains \$1,000.
  - The Social Security maximum taxable wage base increased from \$118,500 to \$127,200.
- Planadviser magazine reports that the number of IRS audits of defined contribution plans has increased in response to frequent mistakes by sponsors in managing their plans.
  - The leading violation involves inconsistent remittance of employee deferrals or remitting beyond the allotted period.
  - Other areas of concern among auditors: educating participants about the risks of a self-directed brokerage window and adhering to
    established governance procedures outlined in plan documents.
- A proposed class-action lawsuit by three participants in the Ford Motor Co. defined contribution plan alleges a "pay-to-play" arrangement between Financial Engines and Xerox, the Plan's recordkeeper.
  - Plaintiffs allege Xerox acted as a fiduciary in its selection of Financial Engines and that payments made by Financial Engines to Xerox were not disclosed and resulted in overpayment by participants using the service.
  - This is the third such lawsuit involving Financial Engines with previous defendants including Fidelity and Voya. No cases have been settled/adjudicated.
- Other recent litigation involving allegations of fiduciary breach and excessive plan fees include Delta Airlines and Essentia Health.

**Performance Report** 

Asset Allocation by Plan December 31, 2016

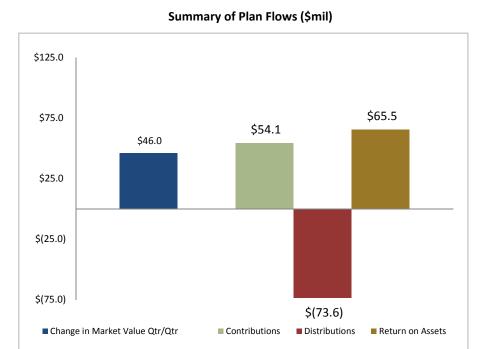
Name	401(k)	%	457	%	Total \$	Total %
Domestic Equity: Large Cap Funds	\$789,661,494	27%	\$189,558,973	20%	\$979,220,467	25%
Vanguard Institutional Index (VIIIX)	\$414,053,631	14%	\$99,269,331	11%	\$513,322,962	13%
Dodge & Cox Stock (DODGX)	\$218,822,477	7%	\$60,755,061	6%	\$279,577,538	7%
T. Rowe Price Growth Stock (PRGFX)	\$156,785,386	5%	\$29,534,581	3%	\$186,319,967	5%
Domestic Equity: Non-Large Cap Funds	\$335,999,502	11%	\$90,908,865	10%	\$426,908,368	11%
T. Rowe Price Mid-Cap Value (TRMIX)	\$178,625,348	6%	\$50,187,234	5%	\$228,812,582	6%
Victory Munder Mid-Cap Core Growth (MGOSX)	\$80,223,462	3%	\$17,116,240	2%	\$97,339,701	3%
TIAA-CREF Small Cap Blend Index (TISBX)	\$21,181,594	1%	\$6,740,968	1%	\$27,922,562	1%
American Beacon Small Cap Value (AVFIX)	\$23,288,173	1%	\$7,622,740	1%	\$30,910,913	1%
AllianceBernstein Small Cap Growth (QUAIX)	\$32,680,926	1%	\$9,241,683	1%	\$41,922,609	1%
Global/International Equity Funds	\$175,364,217	6%	\$47,020,956	5%	\$222,385,173	6%
American Funds New Perspective (RNPGX)	\$29,456,063	1%	\$8,555,987	1%	\$38,012,050	1%
Fidelity Diversified International (FDIVX)	\$91,312,098	3%	\$22,015,746	2%	\$113,327,845	3%
Amer Funds EuroPacific Growth (RERGX)	\$54,596,056	2%	\$16,449,222	2%	\$71,045,278	2%
Hybrid Funds	\$327,933,237	11%	\$104,925,133	11%	\$432,858,370	11%
PIMCO All Asset Institutional (PAAIX)	\$3,932,120	0%	\$974,928	0%	\$4,907,048	0%
SSgA Target Retirement 2060 K	\$411,515	0%	\$113,993	0%	\$525,508	0%
SSgA Target Retirement 2055 K	\$130,941	0%	\$34,544	0%	\$165,485	0%
SSgA Target Retirement 2050 K	\$3,461,165	0%	\$1,062,571	0%	\$4,523,737	0%
SSgA Target Retirement 2045 K	\$500,927	0%	\$285,560	0%	\$786,487	0%
SSgA Target Retirement 2040 K	\$31,712,997	1%	\$8,644,865	1%	\$40,357,862	1%
SSgA Target Retirement 2035 K	\$1,585,225	0%	\$208,094	0%	\$1,793,319	0%
SSgA Target Retirement 2030 K	\$57,851,980	2%	\$17,505,011	2%	\$75,356,991	2%
SSgA Target Retirement 2025 K	\$3,178,120	0%	\$787,184	0%	\$3,965,305	0%
SSgA Target Retirement 2020 K	\$85,040,232	3%	\$24,694,108	3%	\$109,734,340	3%
SSgA Target Retirement 2015 K	\$831,616	0%	\$237,616	0%	\$1,069,232	0%
SSgA Target Retirement Income K	\$139,296,399	5%	\$50,376,660	5%	\$189,673,059	5%
Fixed Income Funds	\$145,360,575	5%	\$41,571,688	4%	\$186,932,263	5%
PIMCO Total Return (PTTRX)	\$108,930,930	4%	\$31,826,627	3%	\$140,757,558	4%
BlackRock Inflation Protected Bond (BPRIX)	\$36,429,645	1%	\$9,745,061	1%	\$46,174,705	1%
Stable Value/Guaranteed Certificates	\$1,147,505,574	39%	\$457,751,110	49%	\$1,605,256,685	41%
GW Stable Value Fund	\$926,255,466	32%	\$294,769,493	31%	\$1,221,024,959	32%
84 Month Deposit Fund	\$210,338,025	7%	\$155,747,602	17%	\$366,085,627	9%
84 Month Certificate	\$10,912,084	0%	\$7,234,014	1%	\$18,146,098	0%
Miscellaneous	\$10,556,716	0%	\$5,285,889	1%	\$15,842,605	0%
Self-Directed Brokerage	\$10,376,082	0%	\$5,203,790	1%	\$15,579,872	0%
Self-Directed Brokerage (ROTH)	\$180,634	0%	\$82,099	0%	\$262,733.11	0%
Total by Plan \$	\$2,932,381,316	100%	\$937,022,615	100%	\$3,869,403,931	100%
% of Total Plan Assets		76%		24%		100%

Note: Percentages may not add up to 100% due to rounding.

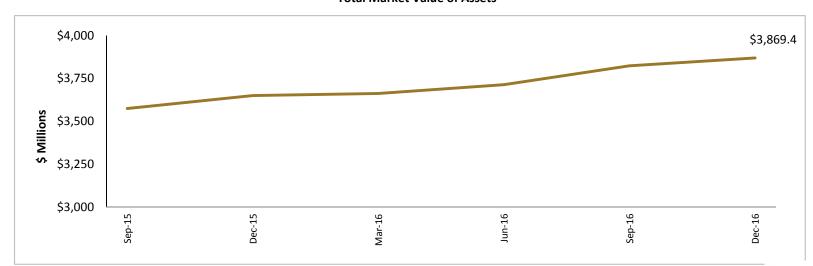
Historical Asset Allocation and Growth of Assets December 31, 2016

#### **Historical Allocation by Asset Class**

#### 100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0% Feb-16 Jun-16 Jul-16 Aug-16 ■ Domestic Equity: Large Cap Funds ■ Domestic Equity: Non-Large Cap Funds ■ Global/International Equity Funds ■ Hybrid Funds\* Fixed Income Funds ■ Guaranteed Investment Funds\*\* ■ Self-Directed Brokerage



#### **Total Market Value of Assets**



<sup>\*</sup>Hybrid Funds include the Target Date Series and the PIMCO All Asset Fund

<sup>\*\*</sup>Guaranteed Investment Funds includes Stable Value and Guaranteed Certificates.

Fund Monitor December 31, 2016

					Investment Option	ons					
Criteria	Dodge & Cox Stock	T. Rowe Price Growth Stock	T. Rowe Price Mid Cap Value <sup>10</sup>	Victory Munder Mid Cap Growth <sup>9,11</sup>	American Beacon Small Cap Value	AllianceBernstein Small Cap Growth		Fidelity Diversified International	American Funds EuroPacific Growth	PIMCO Total Return Instl	BlackRock Inflation Protected Bond
Performance <sup>1</sup>											
3 year	Fail	Fail	Pass	Fail	Fail	Fail	Pass	Pass	Pass	Fail	Fail
5 year	Pass	Pass	Pass	Fail	Pass	Fail	Pass	Pass	Pass	Pass	Fail
Universe Ranking <sup>2</sup>											
3 year	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Pass	Pass	Fail	Pass
5 year	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass
Risk Adjusted Performance <sup>3</sup>											
3 year	Fail	Fail	Pass	Fail	Pass	Fail	Pass	Pass	Pass	Fail	Fail
5 year	Fail	Fail	Pass	Fail	Pass	Fail	Pass	Pass	Pass	Pass	Fail
Morningstar Overall Rating <sup>4</sup> Overall	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Consistency of Style <sup>5</sup> Style Box Rating	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Grade	5/8	5/8	8/8	2/8	7/8	2/8	8/8	8/8	8/8	5/8	4/8
Overall Pass/Fail <sup>6</sup>	Pass	Pass	Pass	Fail	Pass	Fail	Pass	Pass	Pass	Pass	Fail
Watchlist? <sup>7</sup>	No	No	No	Yes	No	Yes	No	No	No	No	Yes
Fund Review? <sup>8</sup>	No	No	No	Yes	No	No	No	No	No	No	Yes
Cumulative Quarters Failed	Zero	Zero	Zero	Six	Zero	Four	Zero	Zero	Zero	Zero	Eight

<sup>&</sup>lt;sup>1</sup>Performance must meet or exceed that of its benchmark.

#### **NOTES**

<sup>&</sup>lt;sup>2</sup>The fund must rank in the top half of its peer universe (=/> 50th percentile).

<sup>&</sup>lt;sup>3</sup>The Sharpe Ratio must meet or exceed that of its benchmark.

<sup>&</sup>lt;sup>4</sup>The fund must have a Overall Morningstar Rating of =/> 3 stars.

<sup>&</sup>lt;sup>5</sup>The fund must maintain its Morningstar or Lipper Category style for 4 of the last 6 quarters.

<sup>&</sup>lt;sup>6</sup>The Fund is measured against the 8 criteria listed above. At the end of each quarter, each fund must meet or exceed 5 of the 8 criteria in order to receive a passing grade. If less than 5 criteria receive a passing grade, the fund will receive a failing grade.

<sup>&</sup>lt;sup>7</sup>If the fund received a failing grade, the fund will be placed on the Watch List and monitored for possible future action.

<sup>&</sup>lt;sup>8</sup>If for a period of 4 consecutive quarters, the fund has received a failing grade, the fund will be placed under formal fund review.

<sup>&</sup>lt;sup>9</sup>A hybrid was created with the Y shareclass due to lack of longer term performance.

<sup>&</sup>lt;sup>10</sup>The fund changed share classes from (TRMCX) to Institutional (TRMIX) in December 2016. The new share class performance will not take effect until January 1st 2017.

<sup>&</sup>lt;sup>11</sup>Robert Glise was added to the portfolio management team on 9/14/2016.

Fund Monitor December 31, 2016

						Invest	ment Option								
Criteria	Vanguard Institutional Index	TIAA-CREF Small Cap Blend	PIMCO All Asset <sup>5</sup>	SSgA 2060	SSgA 2055	SSgA 2050	SSgA 2045	SSgA 2040	SSgA 2035	SSgA 2030	SSgA 2025	SSgA 2020	SSgA 2015	SSgA Income	Stable Value
Performance <sup>1</sup>															
3 year (within 50 bps)*	Pass	Pass	Fail	N/A	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
5 year (within 50 bps)*	Pass	Pass	Fail	N/A	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Performance (Secondary) <sup>2</sup> 3 year (within 50 bps)* 5 year (within 50 bps)*	N/A N/A	N/A N/A	Fail Fail	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
Universe Ranking <sup>3</sup>															
3 year	N/A	N/A	N/A	N/A	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	N/A
5 year	N/A	N/A	N/A	N/A	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Pass	N/A
Risk Level (standard deviation) <sup>4</sup>															
3 year	Pass	Pass	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5 year	Pass	Pass	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

<sup>&</sup>lt;sup>1</sup>Performance must meet or exceed that of its benchmark.

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<sup>5</sup> Chris Brightman was added to the portfolio management team on 11/7/2016.	

<sup>&</sup>lt;sup>2</sup>Performance must meet or exceed that of its secondary benchmark.

<sup>&</sup>lt;sup>3</sup>The fund must rank in the top half of its peer universe (=/> 50th percentile).

<sup>&</sup>lt;sup>4</sup>Standard Deviation must be within 50bps = Standard Deviation of the Benchmark

<sup>\*</sup>This additional bps measure (50 bps) is due to the management fees of the mutual funds and small amounts of tracking error.

<sup>\*</sup>The Stable Value fund needs to outpace its benchmark over the 3 year period. The Index Fund and Age Based Funds need to replicate the benchmark over the periods measured.

<sup>\*</sup>The GTAA Fund needs to outpace its benchmark over the 3 year and 5 year period.

Asset Allocation & Performance (net of fees)

	Allocatio	on		Per	formance % and P	ercentile Rank (Bl	ue)	
	Asset \$	Asset %	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
Oomestic Equity: Large Cap Funds								
/anguard Institutional Index (VIIIX)	513,322,962	13.27	3.82	11.95	11.95	8.87	14.65	6.97
S&P 500			3.82	11.96	11.96	8.87	14.66	6.95
Excess Return			0.00	-0.01	-0.01	0.00	-0.01	0.02
M U.S. Large Cap Core Equity (MF) Rank			46	29	29	7	16	23
odge & Cox Stock Fund (DODGX)	279,577,538	7.23	10.71	21.28	21.28	8.55	17.01	5.93
ussell 1000 Value Index			6.68	17.34	17.34	8.59	14.80	5.72
Excess Return			4.03	3.94	3.94	-0.04	2.21	0.21
M U.S. Large Cap Value Equity (MF) Rank			5	5	5	7	1	26
. Rowe Price Growth Stock (PRGFX)	186,319,967	4.82	0.07	1.41	1.41	6.95	15.16	7.91
ussell 1000 Growth Index			1.01	7.08	7.08	8.55	14.50	8.33
Excess Return			-0.94	-5.67	-5.67	-1.60	0.66	-0.42
/I U.S. Large Cap Growth Equity (MF) Rank			28	58	58	29	9	27
omestic Equity: Non-Large Cap Funds								
. Rowe Price Mid Cap Value Fund I (TRMIX)	228,812,582	5.91	7.18	24.32	24.32	9.92	15.88	8.38
ussell Midcap Value Index			5.52	20.00	20.00	9.45	15.70	7.59
Excess Return			1.66	4.32	4.32	0.47	0.18	0.79
/I U.S. Mid Cap Value Equity (MF) Rank			44	9	9	7	14	6
ictory Munder Mid-Cap Core Growth Fund (MGOSX)	97,339,701	2.52	2.67	7.58	7.58	4.40	12.10	7.19
ussell Midcap Growth Index			0.46	7.33	7.33	6.23	13.51	7.83
Excess Return			2.21	0.25	0.25	-1.83	-1.41	-0.64
/I U.S. Mid Cap Growth Equity (MF) Rank			19	24	24	43	45	40
AA CREF Small Cap Blend Index (TISBX)	27,922,562	0.72	8.87	21.58	21.58	7.01	14.71	7.21
ussell 2000 Index			8.83	21.31	21.31	6.74	14.46	7.07
Excess Return			0.04	0.27	0.27	0.27	0.25	0.14
1 U.S. Small Cap Core Equity (MF) Rank			83	61	61	49	45	33
merican Beacon Small Cap Value (AVFIX)	30,910,913	0.80	13.77	26.73	26.73	8.02	15.52	7.94
ussell 2000 Value Index			14.07	31.74	31.74	8.31	15.07	6.26
Excess Return			-0.30	-5.01	-5.01	-0.29	0.45	1.68
M U.S. Small Cap Value Equity (MF) Rank			37	64	64	34	23	15

<sup>\*</sup>Total Fee reflects the additional 22 bps wrap fee assessed by PHS. Fund performance exludes this fee.

<sup>\*\*</sup>Please refer to the Appendix for Backdated Performance Detail.

Asset Allocation & Performance (net of fees)

	Allocatio	on		Performance % and Percentile Rank (Blue)						
	Asset \$	Asset %	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year		
AllianceBernstein Small Cap Growth (QUAIX)	41,922,609	1.08	2.62	6.80	6.80	1.42	11.90	8.61		
Russell 2000 Growth Index			3.57	11.32	11.32	5.05	13.74	7.76		
Excess Return			-0.95	-4.52	-4.52	-3.63	-1.84	0.85		
IM U.S. Small Cap Growth Equity (MF) Rank			48	90	90	65	73	13		
Global/International Equity Funds										
American Funds New Perspective (RNPGX)	38,012,050	0.98	-1.87	2.19	2.19	3.79	11.51	-		
MSCI AC World Index (Net)			1.19	7.86	7.86	3.13	9.36	3.56		
Excess Return			-3.06	-5.67	-5.67	0.66	2.15	-		
M Global Large Cap Equity (MF) Rank			71	71	71	14	4	-		
Fidelity Diversified International (FDIVX)	113,327,845	2.93	-4.73	-3.73	-3.73	-1.32	7.52	1.30		
MSCI EAFE Index (Net)			-0.71	1.00	1.00	-1.60	6.53	0.75		
Excess Return			-4.02	-4.73	-4.73	0.28	0.99	0.55		
M International Large Cap Core Equity (MF) Rank			96	98	98	19	5	16		
American Funds EuroPacific Growth (RERGX)	71,045,278	1.84	-4.15	1.01	1.01	-0.60	7.22	-		
MSCI EAFE Index (Net)			-0.71	1.00	1.00	-1.60	6.53	0.75		
Excess Return			-3.44	0.01	0.01	1.00	0.69	-		
M International Large Cap Core Equity (MF) Rank			90	57	57	13	8	-		
Hybrid Funds										
PIMCO All Asset Fund (PAAIX)	4,907,048	0.13	-0.32	13.34	13.34	1.41	3.94	4.79		
CPI + 500bps			1.23	7.17	7.17	6.24	6.42	6.89		
Excess Return			-1.55	6.17	6.17	-4.83	-2.48	-2.10		
M Global Balanced/TAA (SA+CF+MF) Rank			68	3	3	93	91	64		
50 MSCI World/40 Citigroup World			-2.31	5.71	5.71	2.45	6.25	4.18		
SSgA Target Retirement 2060 K	525,508	0.01	0.69	9.45	9.45	-	-	-		
SSgA Retirement 2060 Index			0.70	9.26	9.26	-	-	-		
Excess Return			-0.01	0.19	0.19	-	-	-		
M Mixed-Asset Target 2055+ (MF) Rank			73	19	19	-	-	-		
SgA Target Retirement 2055 K	165,485	0.00	0.69	9.45	9.45	4.30	9.84	-		
SgA Retirement 2055 Index			0.70	9.26	9.26	4.32	9.86	-		
Excess Return			-0.01	0.19	0.19	-0.02	-0.02	-		
M Mixed-Asset Target 2055+ (MF) Rank			73	19	19	34	64	_		

<sup>\*</sup>Total Fee reflects the additional 22 bps wrap fee assessed by PHS. Fund performance exludes this fee.

<sup>\*\*</sup>Please refer to the Appendix for Backdated Performance Detail.

Asset Allocation & Performance (net of fees)

	Allocatio	on		Per	formance % and P	ercentile Rank (Bl	ue)	
	Asset \$	Asset %	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
SSgA Target Retirement 2050 K	4,523,737	0.12	0.69	9.43	9.43	4.28	9.83	-
SSgA Retirement 2050 Index			0.70	9.26	9.26	4.32	9.86	-
Excess Return			-0.01	0.17	0.17	-0.04	-0.03	-
IM Mixed-Asset Target 2050 (MF) Rank			68	21	21	34	49	-
SSgA Target Retirement 2045 K	786,487	0.02	0.69	9.45	9.45	4.29	9.83	-
SSgA Retirement 2045 Index			0.70	9.26	9.26	4.32	9.86	-
Excess Return			-0.01	0.19	0.19	-0.03	-0.03	-
IM Mixed-Asset Target 2045 (MF) Rank			69	15	15	33	49	-
SSgA Target Retirement 2040 K	40,357,862	1.04	0.49	9.10	9.10	4.24	9.78	-
SSgA Retirement 2040 Index			0.50	8.93	8.93	4.25	9.80	-
Excess Return			-0.01	0.17	0.17	-0.01	-0.02	-
IM Mixed-Asset Target 2040 (MF) Rank			71	19	19	32	33	-
SSgA Target Retirement 2035 K	1,793,319	0.05	0.20	8.66	8.66	4.21	9.38	-
SSgA Retirement 2035 Index			0.22	8.50	8.50	4.23	9.40	-
Excess Return			-0.02	0.16	0.16	-0.02	-0.02	-
IM Mixed-Asset Target 2035 (MF) Rank			80	20	20	31	42	-
SSgA Target Retirement 2030 K	75,356,991	1.95	-0.05	8.38	8.38	4.17	8.96	-
SSgA Retirement 2030 Index			-0.03	8.27	8.27	4.20	8.99	-
Excess Return			-0.02	0.11	0.11	-0.03	-0.03	-
IM Mixed-Asset Target 2030 (MF) Rank			73	18	18	20	31	-
SSgA Target Retirement 2025 K	3,965,305	0.10	-0.18	8.29	8.29	4.13	8.41	-
SSgA Retirement 2025 Index			-0.18	8.17	8.17	4.16	8.44	-
Excess Return			0.00	0.12	0.12	-0.03	-0.03	-
IM Mixed-Asset Target 2025 (MF) Rank			67	8	8	16	35	-
SSgA Target Retirement 2020 K	109,734,340	2.84	-0.38	7.56	7.56	3.80	7.60	-
SSgA Retirement 2020 Index			-0.36	7.51	7.51	3.85	7.62	-
Excess Return			-0.02	0.05	0.05	-0.05	-0.02	-
IM Mixed-Asset Target 2020 (MF) Rank			56	14	14	20	26	-
SSgA Target Retirement 2015 K	1,069,232	0.03	-0.44	6.64	6.64	3.40	6.27	-
SSgA Retirement 2015 Index			-0.43	6.61	6.61	3.44	6.30	-
Excess Return			-0.01	0.03	0.03	-0.04	-0.03	-
IM Mixed-Asset Target 2015 (MF) Rank			73	40	40	48	72	-

<sup>\*</sup>Total Fee reflects the additional 22 bps wrap fee assessed by PHS. Fund performance exludes this fee.

<sup>\*\*</sup>Please refer to the Appendix for Backdated Performance Detail.

Asset Allocation & Performance (net of fees)

	Allocatio	on		Per	formance % and F	Percentile Rank (Bl	nk (Blue)		
	Asset \$	Asset %	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year	
SSgA Target Retirment Income K	189,673,059	4.90	-0.51	5.82	5.82	2.67	4.53	-	
SSgA Retirement Income Benchmark			-0.51	5.81	5.81	2.72	4.61	-	
Excess Return			0.00	0.01	0.01	-0.05	-0.08	-	
IM Mixed-Asset Target Today (MF) Rank			13	26	26	41	38	-	
Fixed Income Funds									
PIMCO Total Return (PTTRX)	140,757,558	3.64	-2.47	2.59	2.59	2.66	3.21	5.63	
Blmbg. Barc. U.S. Aggregate			-2.98	2.65	2.65	3.03	2.23	4.34	
Excess Return			0.51	-0.06	-0.06	-0.37	0.98	1.29	
IM U.S. Broad Market Core+ Fixed Income (MF) Rank			61	86	86	63	47	12	
BlackRock Inflation Protected Bond (BPRIX)	46,174,705	1.19	-2.35	4.11	4.11	1.51	0.55	4.28	
Blmbg. Barc. U.S. TIPS			-2.41	4.68	4.68	2.26	0.89	4.36	
Excess Return			0.06	-0.57	-0.57	-0.75	-0.34	-0.08	
IM U.S. TIPS (MF) Rank			59	57	57	40	41	9	
Stable Value/Guaranteed Certificates									
Great West Stable Value Fund	1,221,024,959	31.56	0.55	2.26	2.26	2.47	2.76	-	
Ryan 3 Yr GIC Master			0.36	1.39	1.39	1.19	1.22	2.58	
Excess Return			0.19	0.87	0.87	1.28	1.54	-	
84 Month Deposit Fund	366,085,627	9.46							
84 Month Certificate	18,146,098	0.47							
Miscellaneous									
Self-Directed Brokerage	15,579,872	0.40							
Self-Directed Brokerage (ROTH)	262,733	0.01							
Deferred Comp Total	3,869,403,930	100.00							

<sup>\*</sup>Total Fee reflects the additional 22 bps wrap fee assessed by PHS. Fund performance exludes this fee.

<sup>\*\*</sup>Please refer to the Appendix for Backdated Performance Detail.

Plan Revenue Analysis December 31, 2016

		0/ of <b>D</b> love <b>A</b> contr	Investment	Fund Revenue Share	Prospectus Net	Recordkeeping	Total
Investment Menu Vanguard Institutional Index (VIIIX)	\$ Market Value 513,322,962	% of Plan Assets 13.27%	Management 0.02%	+ (12b-1+ Sub-TA) = 0.00%	Expense Ratio 0.02%	+ Credits / Wrap Fee = 0.00%	Fee 0.02%
Dodge & Cox Stock (DODGX)	\$ 279,577,538	7.23%	0.42%	0.10%	0.52%	0.00%	0.52%
, ,	\$						
T. Rowe Price Growth Stock (PRGFX)	 186,319,967	4.82%	0.52%	0.15%	0.67%	0.00%	0.67%
T. Rowe Price Mid-Cap Value (TRMIX)	\$ 228,812,582	5.91%	0.68%	0.00%	0.68%	0.00%	0.68%
Victory Munder Mid-Cap Core Growth (MGOSX)	\$ 97,339,701	2.52%	0.87%	0.00%	0.87%	0.00%	0.87%
TIAA-CREF Small Cap Blend Index (TISBX)	\$ 27,922,562	0.72%	0.06%	0.00%	0.06%	0.00%	0.06%
American Beacon Small Cap Value (AVFIX)	\$ 30,910,913	0.80%	0.82%	0.00%	0.82%	0.00%	0.82%
AllianceBernstein Small Cap Growth (QUAIX)	\$ 41,922,609	1.08%	0.77%	0.15%	0.92%	0.00%	0.92%
American Funds New Perspective (RNPGX)	\$ 38,012,050	0.98%	0.45%	0.00%	0.45%	0.00%	0.45%
Fidelity Diversified International (FDIVX)	\$ 113,327,845	2.93%	0.75%	0.25%	1.00%	0.00%	1.00%
Amer Funds EuroPacific Growth (RERGX)	\$ 71,045,278	1.84%	0.50%	0.00%	0.50%	0.00%	0.50%
PIMCO All Asset Institutional (PAAIX)	\$ 4,907,048	0.13%	0.88%	0.00%	0.88%	0.00%	0.88%
SSgA Target Retirement 2060 K	\$ 525,508	0.01%	0.12%	0.00%	0.12%	0.00%	0.12%
SSgA Target Retirement 2055 K	\$ 165,485	0.00%	0.12%	0.00%	0.12%	0.00%	0.12%
SSgA Target Retirement 2050 K	\$ 4,523,737	0.12%	0.12%	0.00%	0.12%	0.00%	0.12%
SSgA Target Retirement 2045 K	\$ 786,487	0.02%	0.12%	0.00%	0.12%	0.00%	0.12%
SSgA Target Retirement 2040 K	\$ 40,357,862	1.04%	0.12%	0.00%	0.12%	0.00%	0.12%
SSgA Target Retirement 2035 K	\$ 1,793,319	0.05%	0.12%	0.00%	0.12%	0.00%	0.12%
SSgA Target Retirement 2030 K	\$ 75,356,991	1.95%	0.12%	0.00%	0.12%	0.00%	0.12%
SSgA Target Retirement 2025 K	\$ 3,965,305	0.10%	0.12%	0.00%	0.12%	0.00%	0.12%
SSgA Target Retirement 2020 K	\$ 109,734,340	2.84%	0.12%	0.00%	0.12%	0.00%	0.12%
SSgA Target Retirement 2015 K	\$ 1,069,232	0.03%	0.12%	0.00%	0.12%	0.00%	0.12%
SSgA Target Retirement Income K	\$ 189,673,059	4.90%	0.12%	0.00%	0.12%	0.00%	0.12%
PIMCO Total Return (PTTRX)	\$ 140,757,558	3.64%	0.46%	0.00%	0.46%	0.00%	0.46%
BlackRock Inflation Protected Bond (BPRIX)	\$ 46,174,705	1.19%	0.20%	0.15%	0.35%	0.00%	0.35%
GW Stable Value Fund	\$ 1,221,024,959	31.56%	0.16%	0.00%	0.16%	0.00%	0.16%
84 Month Deposit Fund	\$ 366,085,627	9.46%	0.00%	0.00%	0.00%	0.00%	0.00%
84 Month Certificate	\$ 18,146,098	0.47%	0.00%	0.00%	0.00%	0.00%	0.00%
Self-Directed Brokerage	\$ 15,579,872	0.40%	0.00%	0.00%	0.00%	0.00%	0.00%
Self-Directed Brokerage (ROTH)	\$ 262,733	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%
Weighted Average %	,		0.26%	0.03%	0.28%	0.00%	0.28%
Total \$	\$ 3,869,403,932	100.00%	\$9,867,999	\$974,523	\$10,842,522	\$0	\$10,842,522
Estimated Annual Plan Revenue \$*	\$ 974,523						

<sup>\*</sup> Total Plan Revenue = Fund Revenue Share + Recordkeeping Credits/Wrap Fee. Although the Plan generates revenue, it is rebated back to participants.

For all funds shown below with the exception of Fidelity and T. Rowe Price Growth, the State of South Carolina Deferred Compensation Plan has made the decision to retain the share classes shown under the Current Mutual Fund Lineup to help defray recordkeeping costs and minimize participant fees.

#### **Current Mutual Fund Lineup**

# **Less Expensive Options**

Total Plan Investment \$	Fund Name	Ticker	Share Class	Net Expense Ratio %	Fund Fee Rank %*	Eligible For Cheaper Share Class?	Ticker	Share Class	Net Expense Ratio %	Fund Fee Rank %*	Equivalent CIT Strategy Available?
\$513,322,962	Vanguard Institutional Index Instl PI	VIIIX	Inst	0.02	1	No					
\$279,577,538	Dodge & Cox Stock	DODGX	No Load	0.52	7	No					
\$186,319,967	T. Rowe Price Growth Stock	PRGFX	No Load	0.67	12	Yes	PRUFX	Inst	0.52	6	
\$228,812,582	T. Rowe Price Mid-Cap Value I	TRMIX	Inst	0.68	8	No					
\$97,339,701	Victory Munder Mid-Cap Core Growth R6	MGOSX	Retirement	0.87	19	No					
\$27,922,562	TIAA-CREF Small-Cap Blend Idx Inst	TISBX	Inst	0.06	1	No					
\$30,910,913	American Beacon Small Cp Val Inst	AVFIX	Inst	0.82	6	No					
\$41,922,609	AB Small Cap Growth I	QUAIX	Inst	0.92	17	Yes	QUAZX	Inst	0.85	10	
\$38,012,050	American Funds New Perspective R6	RNPGX	Retirement	0.45	2	No					
\$113,327,845	Fidelity® Diversified International	FDIVX	No Load	1.05	40	Yes	FDIKX	Retirement	0.92	25	
\$71,045,278	American Funds Europacific Growth R6	RERGX	Retirement	0.50	3	No					
\$4,907,048	PIMCO All Asset Instl	PAAIX	Inst	0.88	6	No					
\$140,757,558	PIMCO Total Return Instl	PTTRX	Inst	0.46	19	No					
\$46,174,705	BlackRock Inflation Protected Bond Instl	BPRIX	Inst	0.35	14	Yes	BPLBX	Other	0.30	10	

TBC = To Be Confirmed.

The above is for informational purposes only and is subject to the limitations of publicly available data bases. The investment manager and plan administrator should be consulted to verify the accuracy and availability of lower fee investments. Please check with Summit Strategies Group for an analysis of how changes to investments will impact the plan's economics. Commingled Investment Trusts (CITs) are not permitted in 403(b), 457(f) or 457(b) plans.

<sup>\*</sup> Fee rank % based on Morningstar Peer Groups (1 = least expensive; 100 = most expensive).

**Domestic Equity: Large Cap Funds** 

Vanguard Institutional Index (VIIIX)

December 31, 2016

Floudet Details	
Product Name :	Vanguard Instl Indx;InsP (VIIIX)
Fund Family :	Vanguard Group Inc

Ticker: VIIIX

Peer Group: IM U.S. Large Cap Core Equity

(MF)

Benchmark: S&P 500
Fund Inception: 07/07/1997
Portfolio Manager: Donald M. Butler
Total Assets: \$91,482 Million
Total Assets Date: 12/31/2016

Turnover: 5%

**Fund Characteristics** 

**Total Securities** 

Performance Summary (net of fees)						
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
Vanguard Institutional Index (VIIIX)	3.82	11.95	11.95	8.87	14.65	6.97
S&P 500	3.82	11.96	11.96	8.87	14.66	6.95
Excess Return	0.00	-0.01	-0.01	0.00	-0.01	0.02
Peer Group Percentile	45	29	29	7	16	23

#### Calendar Year Return 40.0 20.0 0.0 Return -20.0 -40.0 -60.0 2010 2011 2012 2013 2014 2015 2016 2008 2009 Vanguard Institutional Index (VIIIX) S&P 500

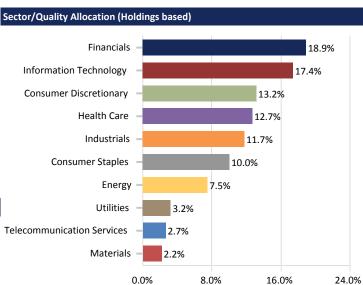


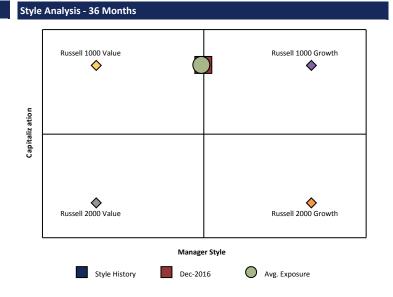
# Avg. Market Cap \$141,474 Million P/E 26.06 P/B 5.51 Div. Yield 2.46% Annual EPS 9.82 5Yr EPS 7.93 3Yr EPS Growth 11.84

514

Portfolio Statistics - 36 Months					
	Portfolio	Benchmark	Peer Median		
Standard Deviation	10.59	10.59	10.82		
Beta	1.00	1.00	1.01		
Sharpe Ratio	0.85	0.85	0.69		
Information Ratio	-0.23	-	-0.64		
Tracking Error	0.01	0.00	2.57		
Consistency	44.44	0.00	41.67		
Up Capture	99.99	100.00	93.99		
Down Capture	99.99	100.00	105.22		
R-Squared	1.00	1.00	0.95		
Fund Objective					

The Fund seeks to match the investment performance of Telecommunication Services the Standard & Poor's 500 Composite Stock Price Index.





#### Dodge & Cox Stock Fund (DODGX)

December 31, 2016

Product Details					
Product Name :	Dodge & Cox Stock (DODGX)				
Fund Family :	Dodge & Cox				
Ticker :	DODGX				

Peer Group : IM U.S. Large Cap Value Equity

(MF)

Benchmark : Russell 1000 Value Index

Fund Inception: 01/04/1965

Portfolio Manager: Team Managed
Total Assets: \$61,150 Million
Total Assets Date: 11/30/2016
Turnover: 15%

Fund Characteristics	
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Total Securities 69

Avg. Market Cap \$103,257 Million

 P/E
 21.46

 P/B
 2.82

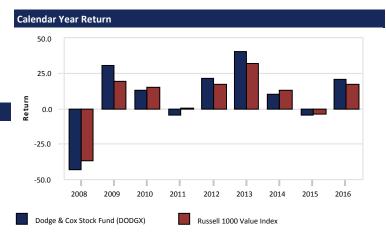
 Div. Yield
 2.09%

 Annual EPS
 1.98

 5Yr EPS
 5.06

 3Yr EPS Growth
 6.47

#### Performance Summary (net of fees) 3 Month CYTD 1 Year 3 Year 5 Year 10 Year Dodge & Cox Stock Fund (DODGX) 10.71 21.28 21.28 8.55 17.01 5.93 Russell 1000 Value Index 6.68 17.34 17.34 8.59 14.80 5.72 **Excess Return** 4.03 3.94 3.94 -0.04 2.21 0.21 Peer Group Percentile 5 5 5 1 26



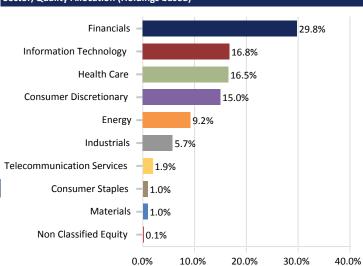


#### Portfolio Statistics - 36 Months

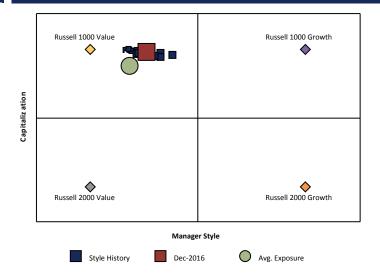
	Portfolio	Benchmark	Peer Median
Standard Deviation	12.99	10.77	11.51
Beta	1.13	1.00	1.04
Sharpe Ratio	0.69	0.81	0.62
Information Ratio	0.05	-	-0.57
Tracking Error	4.76	0.00	2.86
Consistency	55.56	0.00	44.44
Up Capture	103.87	100.00	96.38
Down Capture	104.96	100.00	107.47
R-Squared	0.88	1.00	0.95

The Fund seeks long-term growth of principal and income. A secondary objective is to achieve a reasonable current income.

#### Sector/Quality Allocation (Holdings based)



#### Style Analysis - 36 Months



Summit Strategies Group

#### T. Rowe Price Growth Stock (PRGFX)

December 31, 2016

**Fund Characteristics** 

Product Details					
Product Name :	T Rowe Price Gro Stk (PRGFX)				
Fund Family:	T Rowe Price Associates Inc				
Ticker:	PRGFX				

Peer Group: IM U.S. Large Cap Growth Equity

(MF)

Benchmark: Russell 1000 Growth Index

Fund Inception: 04/11/1950

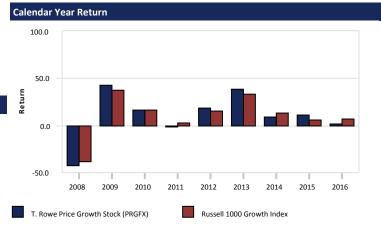
Portfolio Manager: Joseph B. Fath

Total Assets: \$36,280 Million

Total Assets Date: 11/30/2016

Turnover: 38%

	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
T. Rowe Price Growth Stock (PRGFX)	0.07	1.41	1.41	6.95	15.16	7.91
Russell 1000 Growth Index	1.01	7.08	7.08	8.55	14.50	8.33
Excess Return	-0.94	-5.67	-5.67	-1.60	0.66	-0.42
Peer Group Percentile	28	57	57	29	9	27



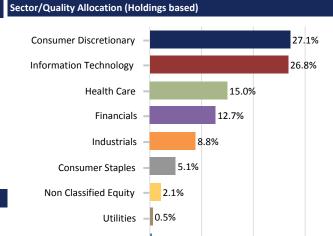


<b>Total Securities</b>	100
Avg. Market Cap	\$160,329 Million
P/E	34.54
P/B	9.03
Div. Yield	1.68%
Annual EPS	32.38
5Yr EPS	16.24
3Yr EPS Growth	23.52

Portrollo Statistics - 36 Months					
	Portfolio	Benchmark	Peer Median		
Standard Deviation	12.69	11.15	11.99		
Beta	1.06	1.00	1.03		
Sharpe Ratio	0.59	0.78	0.55		
Information Ratio	-0.28	-	-0.67		
Tracking Error	4.62	0.00	3.63		
Consistency	55.56	0.00	47.22		
Up Capture	100.02	100.00	95.62		
Down Capture	112.23	100.00	114.33		
R-Squared	0.87	1.00	0.91		

# The Fund seeks long-term capital growth through investments in stocks. The Fund will normally invest at least 80% of its net assets in the common stocks of a diversified group of growth companies. While it may invest in any market capitalization, it generally seeks

investments in stocks of large-capitalization companies.



0.0%

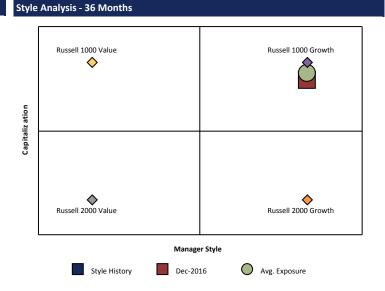
10.0%

20.0%

30.0%

40.0%

**Telecommunication Services** 



Summit Strategies Group

**Domestic Equity: Non-Large Cap Funds** 

## T. Rowe Price Mid Cap Value Fund I (TRMIX)

December 31, 2016

Product Details	
Product Name :	T Rowe Price MC VI;I (TRMIX)
Fund Family:	T Rowe Price Associates Inc
Ticker:	TRMIX

Peer Group: IM U.S. Mid Cap Value Equity

(MF)

Benchmark : Russell Midcap Value Index

Fund Inception: 08/28/2015

Portfolio Manager: David J. Wallack
Total Assets: \$1,170 Million

Total Assets Date: 11/30/2016

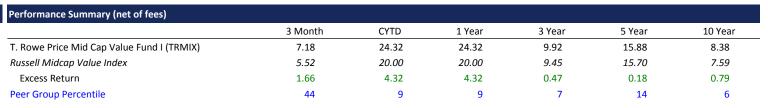
Turnover: -

Characteristics

Total Securities 103

Avg. Market Cap \$11,763 Million

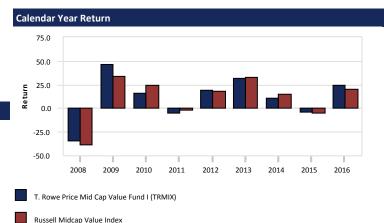
P/E 29.18
P/B 3.26
Div. Yield 2.06%
Annual EPS -5.82
5Yr EPS 0.60
3Yr EPS Growth -1.14



Return Percentile Rank

25

100





9/12

3/13

9/13

3/14

9/14

3/15

9/15

3/16

12/16

Rolling Percentile Ranking (Return) - 36 Months

Russell Midcap Value Index

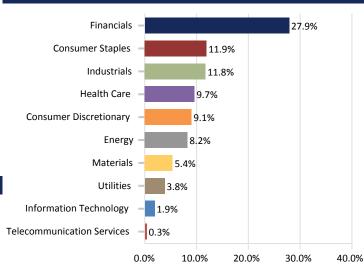
#### Portfolio Statistics - 36 Months

**Fund Objective** 

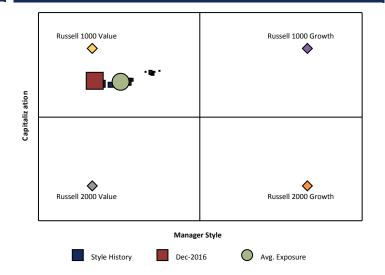
	Portfolio	Benchmark	Peer Median
Standard Deviation	11.26	11.30	12.26
Beta	0.97	1.00	1.04
Sharpe Ratio	0.89	0.85	0.62
Information Ratio	0.16	-	-0.49
Tracking Error	2.74	0.00	3.30
Consistency	47.22	0.00	41.67
Up Capture	99.13	100.00	96.83
Down Capture	94.51	100.00	109.54
R-Squared	0.94	1.00	0.93

The Fund seeks long-term capital appreciation by using a value-oriented approach. The Fund invests in common stocks of medium sized companies believed to be undervalued in the marketplace.

#### Sector/Quality Allocation (Holdings based)



#### Style Analysis - 36 Months



Victory Munder Mid-Cap Core Growth Fund (MGOSX)

December 31, 2016

Product Details	
Product Name :	Victory:MC Core Gr;R6 (MGOSX)
Fund Family:	Victory Capital Management Inc
Ticker :	MGOSX

Peer Group : IM U.S. Mid Cap Growth Equity

(MF)

Benchmark: Russell Midcap Growth Index

Fund Inception: 06/01/2012
Portfolio Manager: Tony Y. Dong
Total Assets: \$729 Million
Total Assets Date: 12/31/2016
Turnover: 40%

wth Equity	Excess Return	2.21	0.25	0.25	-1.83
	Peer Group Percentile	16	23	23	43
vth Index					
	Calendar Year Return		<b>Rolling Percent</b>	ile Ranking (Retu	ırn) - 36 Months
	100.0		0		
	100.0		0	• •	

3 Month

2.67

0.46

CYTD

7.58

7.33

1 Year

7.58

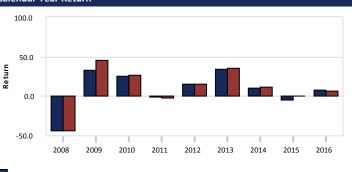
7.33

#### Fund Characteristics

Total Securities 81

Avg. Market Cap \$13,343 Million

P/E 30.93 P/B 4.38 Div. Yield 1.85% Annual EPS 6.66 5Yr EPS 13.97 3Yr EPS Growth 19.24



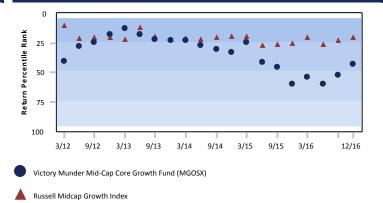
Victory Munder Mid-Cap Core Growth Fund (MGOSX)

Performance Summary (net of fees)

Russell Midcap Growth Index

Victory Munder Mid-Cap Core Growth Fund (MGOSX)

Russell Midcap Growth Index



3 Year

4.40

6.23

5 Year

12.10

13.51

-1.41

44

10 Year

7.19

7.83

-0.64

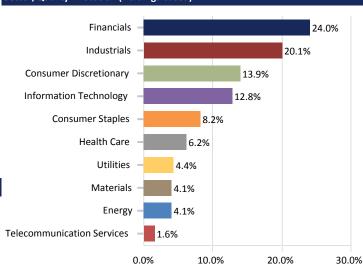
40

#### Portfolio Statistics - 36 Months

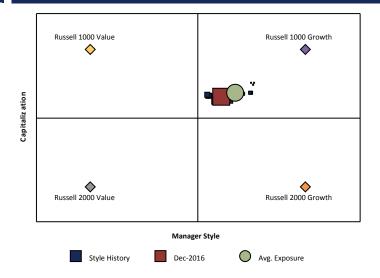
	Portfolio	Benchmark	Peer Median
Standard Deviation	12.21	12.18	12.79
Beta	0.97	1.00	1.01
Sharpe Ratio	0.41	0.55	0.35
Information Ratio	-0.54	-	-0.51
Tracking Error	3.24	0.00	4.03
Consistency	47.22	0.00	47.22
Up Capture	93.61	100.00	94.80
Down Capture	103.48	100.00	105.77
R-Squared	0.93	1.00	0.91

The Fund seeks to provide long-term capital appreciation. The Fund pursues its goal by investing, under normal circumstances, at least 80% of its assets in the equity securities (i.e., common stock, preferred stock, convertible securities and rights and warrants) of mid-capitalization companies.

#### Sector/Quality Allocation (Holdings based)



#### Style Analysis - 36 Months



**Summit** Strategies Group

#### TIAA CREF Small Cap Blend Index (TISBX)

December 31, 2016

Product Details	
Product Name :	TIAA-CREF:SCB Idx;Inst (TISBX)
Fund Family:	TIAA-CREF
Ticker :	TISBX

Peer Group : IM U.S. Small Cap Core Equity

(MF)

Benchmark: Russell 2000 Index
Fund Inception: 10/01/2002
Portfolio Manager: Campagna/Liao
Total Assets: \$1,610 Million
Total Assets Date: 12/31/2016

Turnover: 22%

#### Fund Characteristics

Total Securities 1,967 Avg. Market Cap \$2,059 Million

P/E 30.29
P/B 3.79
Div. Yield 2.60%
Annual EPS 10.84
5Yr EPS 10.95
3Yr EPS Growth 11.07

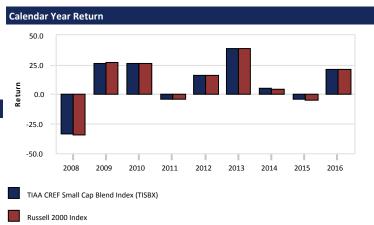
# Portfolio Statistics - 36 Months

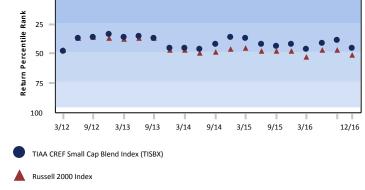
	Portfolio	Benchmark	Peer Median
Standard Deviation	15.75	15.76	15.44
Beta	1.00	1.00	0.96
Sharpe Ratio	0.50	0.49	0.49
Information Ratio	2.75	-	-0.04
Tracking Error	0.09	0.00	3.71
Consistency	80.56	0.00	50.00
Up Capture	100.56	100.00	93.93
Down Capture	99.46	100.00	93.08
R-Squared	1.00	1.00	0.95

The Fund seeks a favorable long-term total return. Under normal circumstances, the Fund invests at least 80% of its assets (net assets, plus the amount of any borrowings for investment purposes) in securities of its benchmark index (the Russell 2000 Index) and in small-cap securities.

Performance Summary (net of fees)						
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
TIAA CREF Small Cap Blend Index (TISBX)	8.87	21.58	21.58	7.01	14.71	7.21
Russell 2000 Index	8.83	21.31	21.31	6.74	14.46	7.07
Excess Return	0.04	0.27	0.27	0.27	0.25	0.14
Peer Group Percentile	<b>7</b> 5	50	50	45	43	27

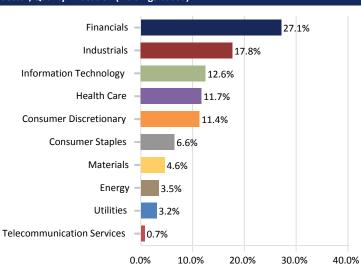
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Rolling Percentile Ranking (Return) - 36 Months

#### Sector/Quality Allocation (Holdings based)



#### Style Analysis - 36 Months



Summit Strategies Group

American Beacon Small Cap Value (AVFIX)

December 31, 2016

Am Beacon:SC Val;Inst (AVFIX)
American Beacon Advisors Inc
AVFIX

Peer Group : IM U.S. Small Cap Value Equity

(MF)

Benchmark : Russell 2000 Value Index

Fund Inception: 12/31/1998

Portfolio Manager: Team Managed

Total Assets: \$5,675 Million

Total Assets Date: 12/31/2016

Turnover: 47%

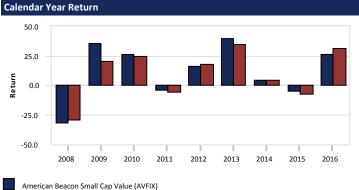
#### **Fund Characteristics**

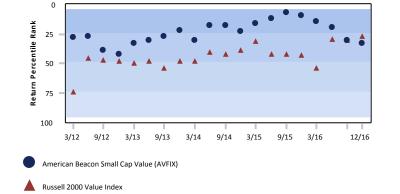
Total Securities 629

Avg. Market Cap \$2,662 Million

P/E 24.84 P/B 2.35 Div. Yield 2.15% Annual EPS 7.50 5Yr EPS 7.01 3Yr EPS Growth 7.33

#### 3 Month CYTD 1 Year 3 Year 5 Year American Beacon Small Cap Value (AVFIX) 13.77 26.73 26.73 8.02 15.52 Russell 2000 Value Index 14.07 31.74 31.74 8.31 15.07 **Excess Return** -0.30 -5.01 -5.01 -0.29 0.45 Peer Group Percentile 39 66 66 33 19 Rolling Percentile Ranking (Return) - 36 Months





#### Portfolio Statistics - 36 Months

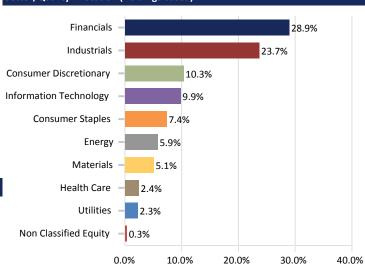
	Portfolio	Benchmark	Peer Median
Standard Deviation	15.09	15.50	15.41
Beta	0.96	1.00	0.98
Sharpe Ratio	0.58	0.59	0.49
Information Ratio	-0.14	-	-0.38
Tracking Error	2.39	0.00	3.89
Consistency	58.33	0.00	44.44
Up Capture	94.00	100.00	95.34
Down Capture	92.74	100.00	96.34
R-Squared	0.98	1.00	0.94

The Fund seeks long-term capital appreciation and current income by investing primarily in equity securities. Ordinarily, at least 80% of the total assets of the Fund are invested in equity securities of US companies with market capitalizations of \$2 billion or less at the time of investment.

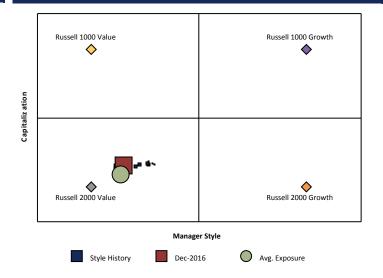
#### Sector/Quality Allocation (Holdings based)

Russell 2000 Value Index

Performance Summary (net of fees)



#### Style Analysis - 36 Months



Summit Strategies Group

10 Year

7.94

6.26

1.68

16

AllianceBernstein Small Cap Growth (QUAIX)

December 31, 2016

AB Sm Cp Gr;I (QUAIX)
AllianceBernstein LP
QUAIX

Peer Group: IM U.S. Small Cap Growth Equity

(MF)

Benchmark: Russell 2000 Growth Index

Fund Inception: 03/01/2005 Portfolio Manager: Team Managed Total Assets: \$289 Million Total Assets Date: 12/31/2016 Turnover: 70%

Fund (	Chara	cteristics
--------	-------	------------

**Total Securities** 104

Avg. Market Cap \$3,357 Million

P/E 38.75 P/B 7.00 Div. Yield 1.65% Annual EPS 15.20 5Yr EPS 18.77 3Yr EPS Growth 25.59

Portfolio Statistics - 36 Months

#### Performance Summary (net of fees) 10 Year 3 Month CYTD 1 Year 3 Year 5 Year AllianceBernstein Small Cap Growth (QUAIX) 2.62 6.80 6.80 1.42 11.90 8.61 Russell 2000 Growth Index 3.57 11.32 11.32 5.05 7.76 13.74 -0.95 **Excess Return** -4.52 -4.52 -3.63 -1.84 0.85 Peer Group Percentile 66 94 94 73 74 17

#### Calendar Year Return 100.0 50.0 Return 0.0 -50.0 2008 2009 2010 2011 2012 2013 2014 2015 2016 AllianceBernstein Small Cap Growth (QUAIX)

Russell 2000 Growth Index

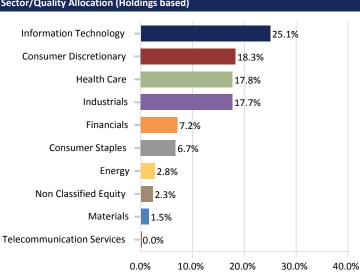


#### Sector/Quality Allocation (Holdings based)

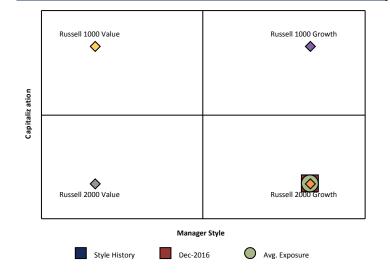
	Portfolio	Benchmark	Peer Median
Standard Deviation	17.91	16.67	16.51
Beta	1.03	1.00	0.94
Sharpe Ratio	0.16	0.37	0.34
Information Ratio	-0.64	-	-0.03
Tracking Error	5.14	0.00	5.44
Consistency	38.89	0.00	50.00
Up Capture	92.28	100.00	95.66
Down Capture	105.69	100.00	92.72
R-Squared	0.92	1.00	0.90

#### The Fund seeks long-term growth of capital. The Fund invests primarily in a diversified portfolio of equity securities with relatively smaller capitalizations. Under normal circumstances, the Fund invests at least 80% of

its net assets in any type of equity securities of smaller companies in any company and industry.



#### Style Analysis - 36 Months



**Summit** Strategies Group

**Global/International Equity Funds** 

American Funds New Perspective (RNPGX)

December 31, 2016

#### **Product Details** Product Name:

American Funds NPer;R-6

(RNPGX)

Fund Family: American Funds

Ticker: RNPGX

Peer Group: IM Global Large Cap Equity (MF)

MSCI AC World Index (Net) Benchmark:

Fund Inception: 05/01/2009 Portfolio Manager: Team Managed Total Assets: \$9,597 Million Total Assets Date: 12/31/2016 Turnover: 22%

#### **Fund Characteristics**

**Total Securities** 322

Avg. Market Cap \$99,626 Million

P/E 30.10 P/B 6.23 Div. Yield 2.15% Annual EPS 8.37 5Yr EPS 9.28 3Yr EPS Growth 14.20

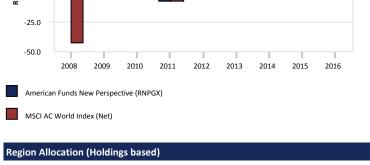
#### Portfolio Statistics - 36 Months

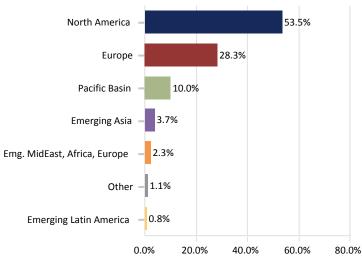
	Portfolio	Benchmark	Peer Median
Standard Deviation	10.86	11.06	11.05
Beta	0.95	1.00	0.94
Sharpe Ratio	0.39	0.32	0.24
Information Ratio	0.21	-	-0.26
Tracking Error	2.93	0.00	3.00
Consistency	55.56	0.00	47.22
Up Capture	94.58	100.00	92.96
Down Capture	88.20	100.00	97.29
R-Squared	0.93	1.00	0.93

The Fund seeks long-term growth of capital with future income as a secondary objective. The Fund seeks to take advantage of investment opportunities generated by changes in international trade patterns and economic and political relationships by investing in common stocks of companies located around the world.

Performance Summary (net of fees)						
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
American Funds New Perspective (RNPGX)	-1.87	2.19	2.19	3.79	11.51	-
MSCI AC World Index (Net)	1.19	7.86	7.86	3.13	9.36	3.56
Excess Return	-3.06	-5.67	-5.67	0.66	2.15	-
Peer Group Percentile	71	71	71	15	5	-

#### Calendar Year Return 50.0 25.0 Return 0.0 -25.0 -50.0 2008 2009 2010 2011 2012 2013 2014 2015 2016 American Funds New Perspective (RNPGX)





#### Rolling Percentile Ranking (Return) - 36 Months 0 Rank 25 Return Percentile 50 75 100 9/12 3/13 9/13 3/14 9/14 3/15 9/15 3/16 12/16 American Funds New Perspective (RNPGX)

MSCI AC World Index (Net)

#### Style Analysis - 36 Months



**Summit** Strategies Group

#### Fidelity Diversified International (FDIVX)

December 31, 2016

Ticker:

Product Details	
Product Name :	Fidelity Dvsd Intl (FDIVX)
Fund Family :	Fidelity Management & Research Company

Peer Group : IM International Large Cap Core

**FDIVX** 

Equity (MF)

Benchmark: MSCI EAFE Index (Net)

Fund Inception: 12/27/1991

Portfolio Manager: William Bower

Total Assets: \$10,207 Million

Total Assets Date: 12/31/2016

Turnover: 31%

#### **Fund Characteristics**

Total Securities 211

Avg. Market Cap \$47,373 Million

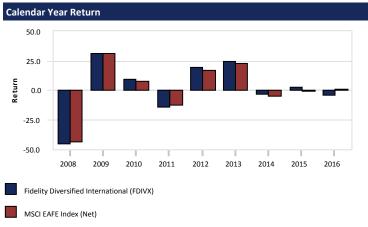
P/E 27.45 P/B 5.06 Div. Yield 2.21% Annual EPS 11.42 5Yr EPS 13.45 3Yr EPS Growth 13.47

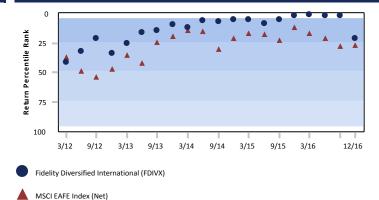
#### Portfolio Statistics - 36 Months

	Portfolio	Benchmark	Peer Median
Standard Deviation	11.54	12.46	11.98
Beta	0.89	1.00	0.92
Sharpe Ratio	-0.07	-0.08	-0.19
Information Ratio	0.05	-	-0.36
Tracking Error	3.68	0.00	3.14
Consistency	52.78	0.00	44.44
Up Capture	85.69	100.00	88.73
Down Capture	85.33	100.00	96.33
R-Squared	0.91	1.00	0.94
Fund Objective			

The Fund seeks capital growth by normally investing at least 65% of total assets in foreign securities, normally investing primarily in common stocks and allocating investments across countries and regions considering size of market and region relative to size of international market as a whole.

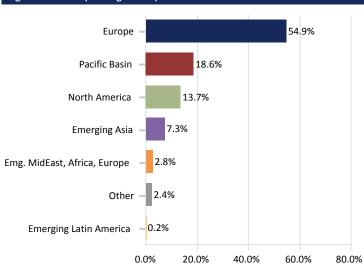
Performance Summary (net of fees)						
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
Fidelity Diversified International (FDIVX)	-4.73	-3.73	-3.73	-1.32	7.52	1.30
MSCI EAFE Index (Net)	-0.71	1.00	1.00	-1.60	6.53	0.75
Excess Return	-4.02	-4.73	-4.73	0.28	0.99	0.55
Peer Group Percentile	96	98	98	21	7	19



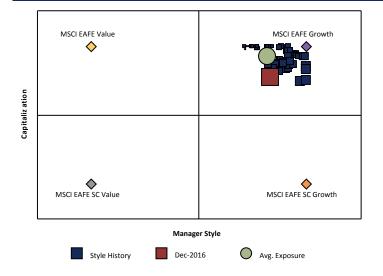


Rolling Percentile Ranking (Return) - 36 Months

#### Region Allocation (Holdings based)



#### Style Analysis - 36 Months



American Funds EuroPacific Growth (RERGX)

December 31, 2016

**Product Details** 

Product Name :	American Funds EuPc;R-6
Product Name.	Allielicali Fullus Eurc, N-0

(RERGX)

Fund Family: American Funds

Ticker: RERGX

Peer Group : IM International Large Cap Core

Equity (MF)

Benchmark: MSCI EAFE Index (Net)

Fund Inception: 05/01/2009
Portfolio Manager: Team Managed
Total Assets: \$45,320 Million
Total Assets Date: 12/31/2016
Turnover: 30%

#### **Fund Characteristics**

Total Securities 358

Avg. Market Cap \$58,538 Million

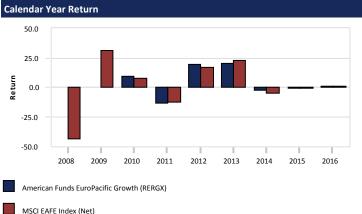
P/E 28.27 P/B 4.19 Div. Yield 2.11% Annual EPS 9.24 5Yr EPS 11.63 3Yr EPS Growth 17.41

#### Portfolio Statistics - 36 Months

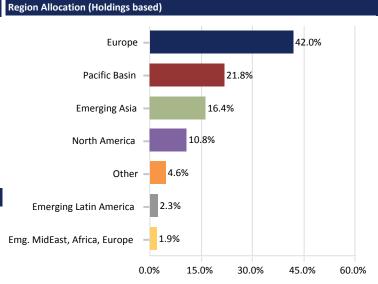
	Portfolio	Benchmark	Peer Median
Standard Deviation	11.04	12.46	11.98
Beta	0.84	1.00	0.92
Sharpe Ratio	-0.01	-0.08	-0.19
Information Ratio	0.21	-	-0.36
Tracking Error	4.07	0.00	3.14
Consistency	52.78	0.00	44.44
Up Capture	83.33	100.00	88.73
Down Capture	79.32	100.00	96.33
R-Squared	0.90	1.00	0.94

The Fund seeks to provide long-term growth of capital by investing in companies based outside the United States. The Fund Invests in companies based chiefly in Europe and the Pacific Basin, ranging from small firms to large corporations.

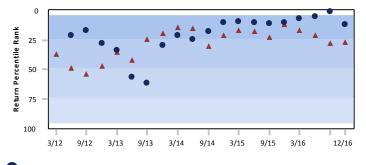
Performance Summary (net of fees)						
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
American Funds EuroPacific Growth (RERGX)	-4.15	1.01	1.01	-0.60	7.22	-
MSCI EAFE Index (Net)	-0.71	1.00	1.00	-1.60	6.53	0.75
Excess Return	-3.44	0.01	0.01	1.00	0.69	=
Peer Group Percentile	90	57	57	12	10	-



MSCI EAFE Index (Net)



#### Rolling Percentile Ranking (Return) - 36 Months



American Funds EuroPacific Growth (RERGX)

MSCI EAFE Index (Net)

#### Style Analysis - 36 Months



**Summit** Strategies Group

**Hybrid Funds** 

#### PIMCO All Asset Fund (PAAIX)

December 31, 2016

**Product Details** 

Product Name :	PIMCO:All Asset;Inst (PAAIX)

Fund Family: **PIMCO** Ticker: **PAAIX** 

Peer Group: IM Global Balanced/TAA

(SA+CF+MF)

Benchmark: CPI + 500bps Fund Inception: 07/31/2002 Arnott/Brightman Portfolio Manager: Total Assets: \$15 Total Assets Date: 12/31/2016 Turnover: 40%

motey brightman	
1 F 000 Million	
15.898 Million	30.0

#### **Fund Characteristics**

**Total Securities** 37 Avg. Market Cap \$2,429 Million

P/E 1.53 P/B 0.13 Div. Yield 0.35% Annual EPS 1.39 5Yr EPS 0.16 3Yr EPS Growth -0.02

Portfolio Statistics - 36 Months

Standard Deviation

Information Ratio

**Sharpe Ratio** 

Tracking Error

Consistency

Up Capture

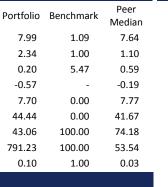
R-Squared

Down Capture

**Fund Objective** 

Beta

#### Investment Style Exposure (Returns based) - 36 Months



The Fund seeks maximum real return, consistent with preservation of real capital and prudent investment management. The Fund seeks to achieve its investment objective by investing under normal circumstances substantially all of its assets in Underlying PIMCO Funds.

7.99

2.34

0.20

-0.57

7.70

44.44

43.06

0.10

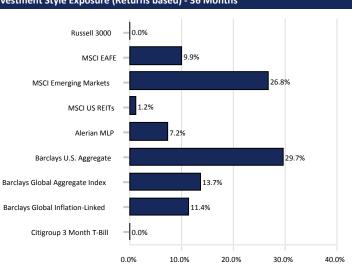
791.23

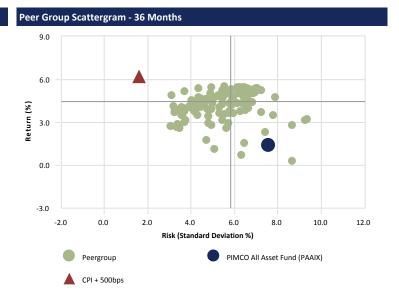
Performance Summary (net of fees)						
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
PIMCO All Asset Fund (PAAIX)	-0.32	13.34	13.34	1.41	3.94	4.79
CPI + 500bps	1.23	7.18	7.18	6.24	6.43	6.90
Excess Return	-1.55	6.16	6.16	-4.83	-2.49	-2.11

#### **Calendar Year Return** 15.0 Return 0.0 -15.0 -30.0 2016 2008 2009 2010 2011 2012 2013 2014 2015 PIMCO All Asset Fund (PAAIX) CPI + 500bps

#### 0 Return Percentile Rank 25 50 75 100 9/12 3/14 9/14 3/15 3/12 3/13 9/13 9/15 3/16 12/16 PIMCO All Asset Fund (PAAIX) CPI + 500bps

Rolling Percentile Ranking (Return) - 36 Months



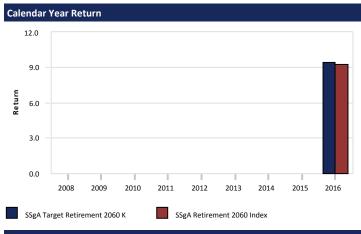


#### SSgA Target Retirement 2060 K

December 31, 2016

Product Details	
Product Name	SSgA Target Retirement 2060 K
Peer Group	IM Mixed-Asset Target 2055+
Benchmark	SSgA Retirement 2060 Benchmark
Inception	04/01/2015
Total Expense	0.12%

Performance Summary (net of fees)						
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
SSgA Target Retirement 2060 K	0.69	9.45	9.45	-	-	-
SSgA Retirement 2060 Index	0.70	9.26	9.26	-	-	-
Excess Return	-0.01	0.19	0.19	-	-	-
Peer Group Percentile	73	19	19	-	-	-



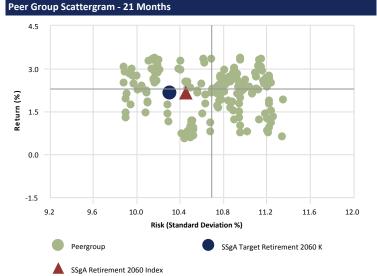


Portfolio Statistics - 21 Months							
	Portfolio	Benchmark	Peer Median				
Standard Deviation	10.31	10.45	10.70				
Beta	0.99	1.00	1.01				
Sharpe Ratio	0.24	0.24	0.25				
Information Ratio	-0.04	-	0.12				
Tracking Error	0.45	0.00	1.60				
Consistency	33.33	0.00	52.38				
Up Capture	99.84	100.00	102.09				
Down Capture	99.95	100.00	103.08				
R-Squared	1.00	1.00	0.98				

#### **Fund Objective**

SSgA Target Retirement Funds (the Funds) seek an investment return that approximates, as closely as practicable, before expenses, the performance of a custom benchmark index (the "index') over the long term. The fund will achieve this by investing in a set of underlying SSgA collective trust funds representing various asset classes. This fund is managed to the specific retirement year included in its name.





#### SSgA Target Retirement 2055 K

December 31, 2016

Product Details	
Product Name	SSgA Target Retirement 2055 K
Peer Group	IM Mixed-Asset Target 2055+
Benchmark	SSgA Retirement 2055 Benchmark
Inception	04/29/2011
Total Expense	0.12%

Performance Summary (net of fees)						
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
SSgA Target Retirement 2055 K	0.69	9.45	9.45	4.30	9.84	=
SSgA Retirement 2055 Index	0.70	9.26	9.26	4.32	9.86	-
Excess Return	-0.01	0.19	0.19	-0.02	-0.02	-
Peer Group Percentile	73	19	19	34	64	-



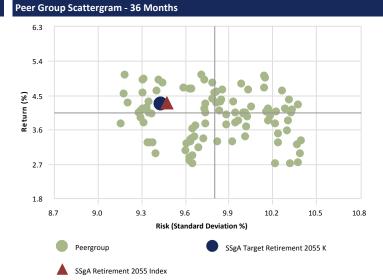


Portfolio Statistics - 36 Months							
	Portfolio	Benchmark	Peer Median				
Standard Deviation	9.43	9.47	9.80				
Beta	1.00	1.00	1.01				
Sharpe Ratio	0.48	0.48	0.44				
Information Ratio	-0.06	-	-0.15				
Tracking Error	0.39	0.00	1.63				
Consistency	33.33	0.00	50.00				
Up Capture	100.58	100.00	101.55				
Down Capture	101.07	100.00	104.12				
R-Squared	1.00	1.00	0.97				

#### **Fund Objective**

SSgA Target Retirement Funds (the Funds) seek an investment return that approximates, as closely as practicable, before expenses, the performance of a custom benchmark index (the "index') over the long term. The fund will achieve this by investing in a set of underlying SSgA collective trust funds representing various asset classes. This fund is managed to the specific retirement year included in its name.





SSgA Target Retirement 2050 K

December 31, 2016

Product Details	
Product Name	SSgA Target Retirement 2050 K
Peer Group	IM Mixed-Asset Target 2050
Benchmark	SSgA Retirement 2050 Benchmark
Inception	10/30/2009
Total Expense	0.12%

Performance Summary (net of fees)						
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
SSgA Target Retirement 2050 K	0.69	9.43	9.43	4.28	9.83	-
SSgA Retirement 2050 Index	0.70	9.26	9.26	4.32	9.86	-
Excess Return	-0.01	0.17	0.17	-0.04	-0.03	-
Peer Group Percentile	68	21	21	34	49	-

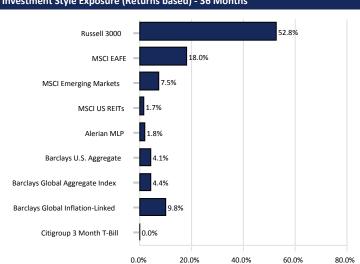


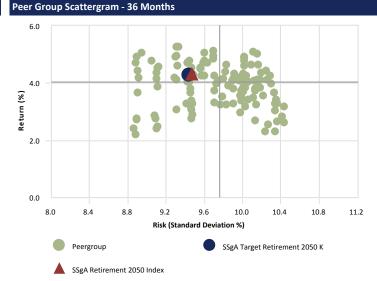


Portfolio Statistics - 36 Months							
	Portfolio	Benchmark	Peer Median				
Standard Deviation	9.44	9.47	9.76				
Beta	1.00	1.00	1.02				
Sharpe Ratio	0.48	0.48	0.44				
Information Ratio	-0.09	-	-0.15				
Tracking Error	0.39	0.00	1.72				
Consistency	33.33	0.00	47.22				
Up Capture	100.54	100.00	100.33				
Down Capture	101.14	100.00	104.27				
R-Squared	1.00	1.00	0.97				

#### **Fund Objective**

SSgA Target Retirement Funds (the Funds) seek an investment return that approximates, as closely as practicable, before expenses, the performance of a custom benchmark index (the "index') over the long term. The fund will achieve this by investing in a set of underlying SSgA collective trust funds representing various asset classes. This fund is managed to the specific retirement year included in its name.





### SSgA Target Retirement 2045 K

December 31, 2016

Product Details	
Product Name	SSgA Target Retirement 2045 K
Peer Group	IM Mixed-Asset Target 2045
Benchmark	SSgA Retirement 2045 Benchmark
Inception	09/30/2009
Total Expense	0.12%

Performance Summary (net of fees)						
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
SSgA Target Retirement 2045 K	0.69	9.45	9.45	4.29	9.83	-
SSgA Retirement 2045 Index	0.70	9.26	9.26	4.32	9.86	-
Excess Return	-0.01	0.19	0.19	-0.03	-0.03	-
Peer Group Percentile	69	15	15	33	49	-



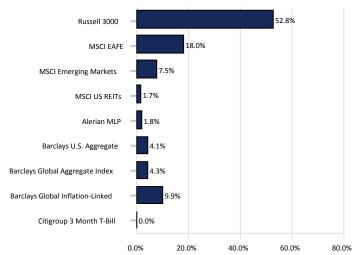


Portfolio Statistics - 36 Months								
	Portfolio	Benchmark	Peer Median					
Standard Deviation	9.44	9.47	9.82					
Beta	1.00	1.00	1.02					
Sharpe Ratio	0.48	0.48	0.44					
Information Ratio	-0.08	-	-0.14					
Tracking Error	0.40	0.00	1.67					
Consistency	30.56	0.00	47.22					
Up Capture	100.60	100.00	99.86					
Down Capture	101.17	100.00	103.73					
R-Squared	1.00	1.00	0.97					

#### **Fund Objective**

SSgA Target Retirement Funds (the Funds) seek an investment return that approximates, as closely as practicable, before expenses, the performance of a custom benchmark index (the "index') over the long term. The fund will achieve this by investing in a set of underlying SSgA collective trust funds representing various asset classes. This fund is managed to the specific retirement year included in its name.







#### SSgA Target Retirement 2040 K

December 31, 2016

Product Details	
Product Name	SSgA Target Retirement 2040 K
Peer Group	IM Mixed-Asset Target 2040
Benchmark	SSgA Retirement 2040 Benchmark
Inception	06/30/2009
Total Expense	0.12%

Performance Summary (net of fees)							
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year	
SSgA Target Retirement 2040 K	0.49	9.10	9.10	4.24	9.78	-	
SSgA Retirement 2040 Index	0.50	8.93	8.93	4.25	9.80	-	
Excess Return	-0.01	0.17	0.17	-0.01	-0.02	-	
Peer Group Percentile	71	19	19	32	33	-	



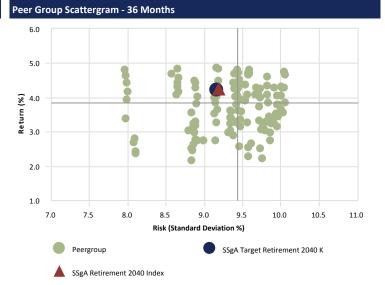


Portfolio Statistics - 36 Months							
	Portfolio	Benchmark	Peer Median				
Standard Deviation	9.16	9.18	9.43				
Beta	1.00	1.00	1.01				
Sharpe Ratio	0.49	0.49	0.43				
Information Ratio	-0.04	-	-0.20				
Tracking Error	0.38	0.00	1.71				
Consistency	33.33	0.00	48.61				
Up Capture	100.11	100.00	97.62				
Down Capture	100.34	100.00	101.78				
R-Squared	1.00	1.00	0.97				

#### **Fund Objective**

SSgA Target Retirement Funds (the Funds) seek an investment return that approximates, as closely as practicable, before expenses, the performance of a custom benchmark index (the "index') over the long term. The fund will achieve this by investing in a set of underlying SSgA collective trust funds representing various asset classes. This fund is managed to the specific retirement year included in its name.



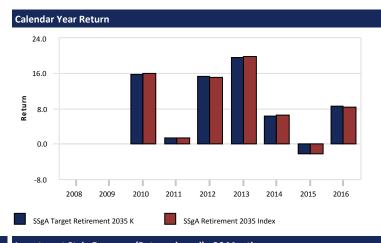


### SSgA Target Retirement 2035 K

December 31, 2016

Product Details	
Product Name	SSgA Target Retirement 2035 K
Peer Group	IM Mixed-Asset Target 2035
Benchmark	SSgA Retirement 2035 Benchmark
Inception	09/30/2009
Total Expense	0.12%

Performance Summary (net of fees)							
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year	
SSgA Target Retirement 2035 K	0.20	8.66	8.66	4.21	9.38	-	
SSgA Retirement 2035 Index	0.22	8.50	8.50	4.23	9.40	-	
Excess Return	-0.02	0.16	0.16	-0.02	-0.02	-	
Peer Group Percentile	80	20	20	31	42	-	



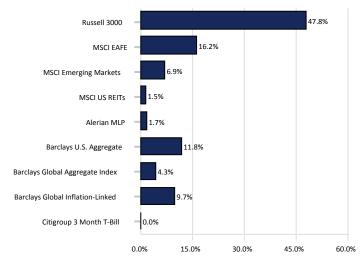


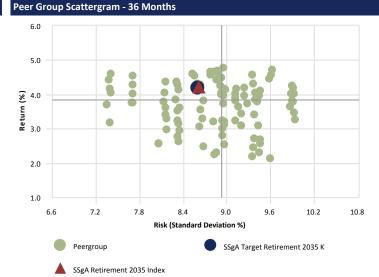
Portfolio Statistics - 36 Months							
	Portfolio	Benchmark	Peer Median				
Standard Deviation	8.59	8.62	8.93				
Beta	1.00	1.00	1.02				
Sharpe Ratio	0.51	0.51	0.45				
Information Ratio	-0.08	-	-0.17				
Tracking Error	0.37	0.00	1.79				
Consistency	36.11	0.00	50.00				
Up Capture	100.00	100.00	97.98				
Down Capture	100.32	100.00	100.14				
R-Squared	1.00	1.00	0.97				

#### **Fund Objective**

SSgA Target Retirement Funds (the Funds) seek an investment return that approximates, as closely as practicable, before expenses, the performance of a custom benchmark index (the "index') over the long term. The fund will achieve this by investing in a set of underlying SSgA collective trust funds representing various asset classes. This fund is managed to the specific retirement year included in its name.







#### SSgA Target Retirement 2030 K

December 31, 2016

Product Details	
Product Name	SSgA Target Retirement 2030 K
Peer Group	IM Mixed-Asset Target 2030
Benchmark	SSgA Retirement 2030 Benchmark
Inception	06/30/2009
Total Expense	0.12%

Performance Summary (net of fees)							
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year	
SSgA Target Retirement 2030 K	-0.05	8.38	8.38	4.17	8.96	-	
SSgA Retirement 2030 Index	-0.03	8.27	8.27	4.20	8.99	-	
Excess Return	-0.02	0.11	0.11	-0.03	-0.03	-	
Peer Group Percentile	73	18	18	20	31	-	



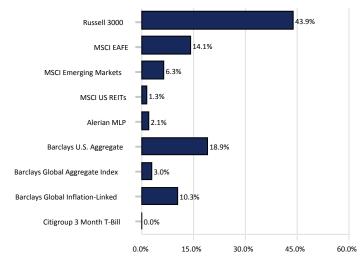


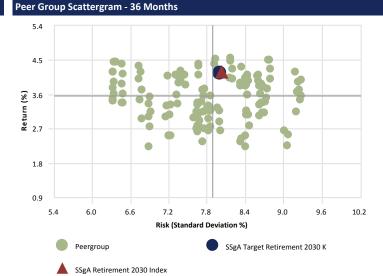
Portfolio Statistics - 36 Months								
	Portfolio	Benchmark	Peer Median					
Standard Deviation	8.00	8.02	7.89					
Beta	1.00	1.00	0.97					
Sharpe Ratio	0.54	0.54	0.47					
Information Ratio	-0.10	-	-0.32					
Tracking Error	0.34	0.00	1.76					
Consistency	33.33	0.00	50.00					
Up Capture	99.97	100.00	91.90					
Down Capture	100.35	100.00	96.95					
R-Squared	1.00	1.00	0.96					

#### **Fund Objective**

SSgA Target Retirement Funds (the Funds) seek an investment return that approximates, as closely as practicable, before expenses, the performance of a custom benchmark index (the "index') over the long term. The fund will achieve this by investing in a set of underlying SSgA collective trust funds representing various asset classes. This fund is managed to the specific retirement year included in its name.







#### SSgA Target Retirement 2025 K

December 31, 2016

Product Details	
Product Name	SSgA Target Retirement 2025 K
Peer Group	IM Mixed-Asset Target 2025
Benchmark	SSgA Retirement 2025 Benchmark
Inception	09/30/2009
Total Expense	0.12%

Performance Summary (net of fees)							
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year	
SSgA Target Retirement 2025 K	-0.18	8.29	8.29	4.13	8.41	-	
SSgA Retirement 2025 Index	-0.18	8.17	8.17	4.16	8.44	-	
Excess Return	0.00	0.12	0.12	-0.03	-0.03	-	
Peer Group Percentile	67	8	8	16	35	-	



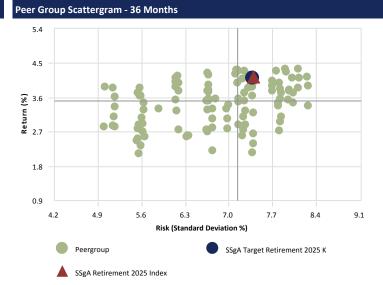


Portfolio Statistics - 36 Months								
	Portfolio	Benchmark	Peer Median					
Standard Deviation	7.38	7.39	7.14					
Beta	1.00	1.00	0.95					
Sharpe Ratio	0.57	0.57	0.52					
Information Ratio	-0.09	-	-0.38					
Tracking Error	0.30	0.00	1.66					
Consistency	36.11	0.00	47.22					
Up Capture	100.11	100.00	87.40					
Down Capture	100.51	100.00	91.32					
R-Squared	1.00	1.00	0.96					

#### **Fund Objective**

SSgA Target Retirement Funds (the Funds) seek an investment return that approximates, as closely as practicable, before expenses, the performance of a custom benchmark index (the "index') over the long term. The fund will achieve this by investing in a set of underlying SSgA collective trust funds representing various asset classes. This fund is managed to the specific retirement year included in its name.



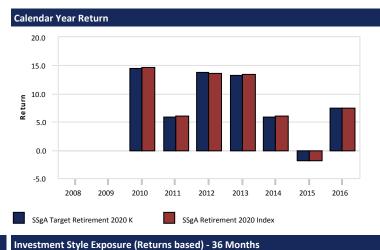


### SSgA Target Retirement 2020 K

December 31, 2016

Product Details	
Product Name	SSgA Target Retirement 2020 K
Peer Group	IM Mixed-Asset Target 2020
Benchmark	SSgA Retirement 2020 Benchmark
Inception	06/30/2009
Total Expense	0.12%

Performance Summary (net of fees)						
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
SSgA Target Retirement 2020 K	-0.38	7.56	7.56	3.80	7.60	-
SSgA Retirement 2020 Index	-0.36	7.51	7.51	3.85	7.62	-
Excess Return	-0.02	0.05	0.05	-0.05	-0.02	-
Peer Group Percentile	56	14	14	20	26	-

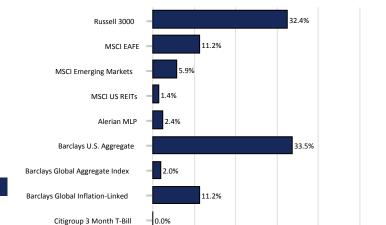




Portfolio Statistics - 36 Months							
	Portfolio	Benchmark	Peer Median				
Standard Deviation	6.50	6.51	5.97				
Beta	1.00	1.00	0.90				
Sharpe Ratio	0.59	0.60	0.54				
Information Ratio	-0.16	-	-0.35				
Tracking Error	0.25	0.00	1.60				
Consistency	25.00	0.00	44.44				
Up Capture	99.94	100.00	84.58				
Down Capture	100.48	100.00	88.26				
R-Squared	1.00	1.00	0.95				

#### **Fund Objective**

SSgA Target Retirement Funds (the Funds) seek an investment return that approximates, as closely as practicable, before expenses, the performance of a custom benchmark index (the "index') over the long term. The fund will achieve this by investing in a set of underlying SSgA collective trust funds representing various asset classes. This fund is managed to the specific retirement year included in its name.



10.0%

20.0%

30.0%

40.0%

50.0%

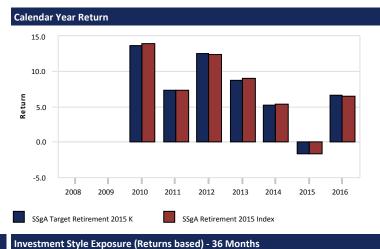


### SSgA Target Retirement 2015 K

December 31, 2016

Product Details	
Product Name	SSgA Target Retirement 2015 K
Peer Group	IM Mixed-Asset Target 2015
Benchmark	SSgA Retirement 2015 Benchmark
Inception	09/30/2009
Total Expense	0.12%

Performance Summary (net of fees)							
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year	
SSgA Target Retirement 2015 K	-0.44	6.64	6.64	3.40	6.27	-	
SSgA Retirement 2015 Index	-0.43	6.61	6.61	3.44	6.30	-	
Excess Return	-0.01	0.03	0.03	-0.04	-0.03	-	
Peer Group Percentile	70	38	38	45	71	-	





Portfolio Statistics - 36 Months							
	Portfolio	Benchmark	Peer Median				
Standard Deviation	5.32	5.32	5.85				
Beta	1.00	1.00	1.05				
Sharpe Ratio	0.64	0.64	0.59				
Information Ratio	-0.18	-	-0.06				
Tracking Error	0.20	0.00	1.59				
Consistency	30.56	0.00	50.00				
Up Capture	99.78	100.00	100.88				
Down Capture	100.29	100.00	100.98				
R-Squared	1.00	1.00	0.94				

#### **Fund Objective**

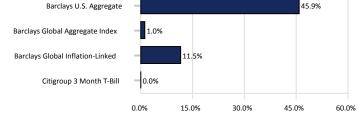
SSgA Target Retirement Funds (the Funds) seek an investment return that approximates, as closely as practicable, before expenses, the performance of a custom benchmark index (the "index') over the long term. The fund will achieve this by investing in a set of underlying SSgA collective trust funds representing various asset classes. This fund is managed to the specific retirement year included in its name.

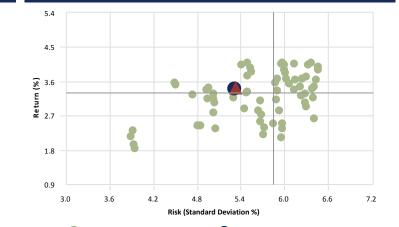


MSCI Emerging Markets

MSCI US REITS

Alerian MLP





Peer Group Scattergram - 36 Months

Peergroup

SSgA Retirement 2015 Index

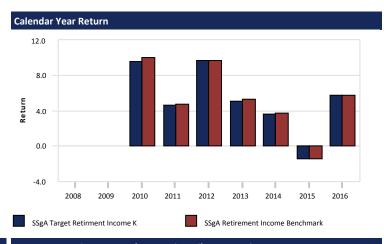
SSgA Target Retirement 2015 K

### SSgA Target Retirment Income K

December 31, 2016

Product Details	
Product Name	SSgA Target Retirement Income k
Peer Group	IM Mixed-Asset Target Today
Benchmark	SSgA Retirement Income
	Benchmark
Inception	06/30/2009
Total Expense	0.12%

Performance Summary (net of fees)						
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
SSgA Target Retirment Income K	-0.51	5.82	5.82	2.67	4.53	-
SSgA Retirement Income Benchmark	-0.51	5.81	5.81	2.72	4.61	-
Excess Return	0.00	0.01	0.01	-0.05	-0.08	-
Peer Group Percentile	14	27	27	43	38	-

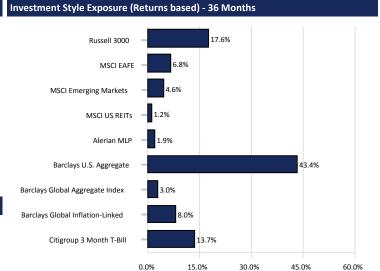


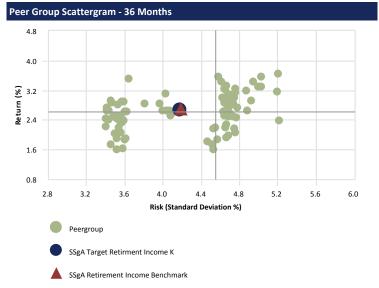


Portfolio Statistics - 36 Months							
	Portfolio	Benchmark	Peer Median				
Standard Deviation	4.18	4.19	4.55				
Beta	1.00	1.00	1.07				
Sharpe Ratio	0.63	0.64	0.63				
Information Ratio	-0.31	-	-0.09				
Tracking Error	0.15	0.00	1.13				
Consistency	27.78	0.00	50.00				
Up Capture	99.59	100.00	98.90				
Down Capture	100.36	100.00	100.34				
R-Squared	1.00	1.00	0.95				

#### **Fund Objective**

SSgA Target Retirement Funds (the Funds) seek an investment return that approximates, as closely as practicable, before expenses, the performance of a custom benchmark index (the "index') over the long term. The fund will achieve this by investing in a set of underlying SSgA collective trust funds representing various asset classes. This fund is managed to the specific retirement year included in its name.





**Fixed Income Funds** 

#### PIMCO Total Return (PTTRX)

December 31, 2016

**Product Details** 

Product Name :	PIMCO:Tot Rtn;Inst (PTTRX)

Fund Family : PIMCO Ticker : PTTRX

Peer Group : IM U.S. Broad Market Core+

Fixed Income (MF)

Benchmark : Blmbg. Barc. U.S. Aggregate

Fund Inception: 05/11/1987

Portfolio Manager: Mather/Kiesel/Worah

Total Assets : \$52,868 Million
Total Assets Date : 12/31/2016
Turnover : 478%

#### **Fund Characteristics**

Avg. Coupon 3.07 % Nominal Maturity 8.18 Years

Effective Maturity

Duration 5.63 Years
SEC 30 Day Yield 2.44
Avg. Credit Quality AA

Performance Summary (net of fees)						
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
PIMCO Total Return (PTTRX)	-2.47	2.59	2.59	2.66	3.21	5.63
Blmbg. Barc. U.S. Aggregate	-2.98	2.65	2.65	3.03	2.23	4.34
Excess Return	0.51	-0.06	-0.06	-0.37	0.98	1.29
Peer Group Percentile	60	84	84	62	47	12

#### Calendar Year Return 15.0 10.0 Return 5.0 -5.0 2008 2009 2010 2011 2012 2013 2014 2015 2016 PIMCO Total Return (PTTRX) Blmbg. Barc. U.S. Aggregate



#### Portfolio Statistics - 36 Months Peer Portfolio Benchmark Median Standard Deviation 3.33 2.98 3.04 0.99 Beta 1.00 0.90 0.77 Sharpe Ratio 0.98 0.92 Information Ratio -0.23 -0.10 **Tracking Error** 1.55 0.00 1.35 Consistency 50.00 0.00 50.00 **Up Capture** 98.86 100.00 95.73 Down Capture 100.00 94.80 111.22

#### **Fund Objective**

R-Squared

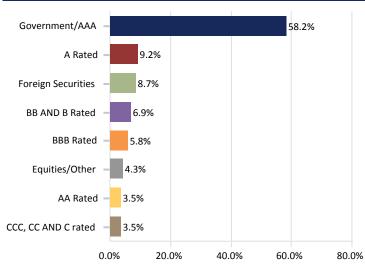
The Fund seeks maximum total return, consistent with preservation of capital and prudent investment management. The Fund seeks to achieve its investment objective by investing in a diversified portfolio of fixed income instruments. The average portfolio duration normally varies within a three-to-six year time frame.

0.78

1.00

0.82

### Sector/Quality Allocation (Holdings based)



#### Style Analysis - 36 Months



BlackRock Inflation Protected Bond (BPRIX)

December 31, 2016

#### **Product Details** BlackRock:Inf Pr Bd;I (BPRIX) Product Name:

Fund Family: BlackRock Inc

Ticker: **BPRIX** 

Peer Group: IM U.S. TIPS (MF) Benchmark: Blmbg. Barc. U.S. TIPS

Fund Inception: 06/28/2004 Portfolio Manager: Hegarty/Chaudhuri \$1,489 Million Total Assets: Total Assets Date : 12/31/2016 Turnover: 45%

Avg. Coupon **Nominal Maturity** 

**Effective Maturity** Duration

SEC 30 Day Yield Avg. Credit Quality AAA

Portfolio Statistics - 36 Months

#### **Fund Characteristics**

3.58 %	
-	
10.33 Years	
7.71 Years	

	Portfolio	Benchmark	Peer Median
Standard Deviation	4.02	4.08	4.05
Beta	0.97	1.00	0.97
Sharpe Ratio	0.37	0.54	0.34
Information Ratio	-1.29	-	-0.72
Tracking Error	0.57	0.00	1.19
Consistency	36.11	0.00	41.67
Up Capture	92.84	100.00	89.19
Down Capture	105.61	100.00	102.92
R-Squared	0.98	1.00	0.95

#### **Fund Objective**

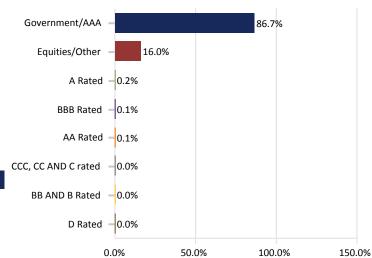
The Fund seeks to maximize real return, consistent with preservation of real capital and prudent investment management, by investing at least 80% of its assets in inflation-indexed bonds of varying maturities issued by U.S. and non-U.S. governments.

Performance Summary (net of fees)						
	3 Month	CYTD	1 Year	3 Year	5 Year	10 Year
BlackRock Inflation Protected Bond (BPRIX)	-2.35	4.11	4.11	1.51	0.55	4.28
Blmbg. Barc. U.S. TIPS	-2.41	4.68	4.68	2.26	0.89	4.36
Excess Return	0.06	-0.57	-0.57	-0.75	-0.34	-0.08
Peer Group Percentile	59	57	57	40	41	9

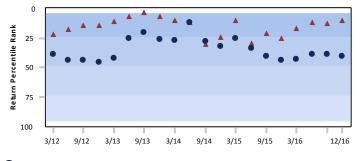
#### Calendar Year Return 16.0 8.0 Return 0.0 -8.0 -16.0 2008 2009 2010 2011 2012 2013 2014 2015 2016 BlackRock Inflation Protected Bond (BPRIX)

Blmbg. Barc. U.S. TIPS

#### Sector/Quality Allocation (Holdings based)



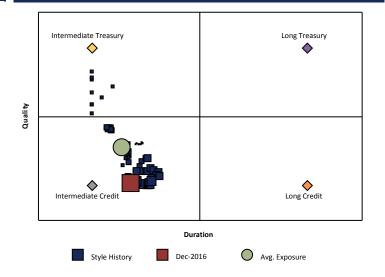
#### Rolling Percentile Ranking (Return) - 36 Months



BlackRock Inflation Protected Bond (BPRIX)

Blmbg. Barc. U.S. TIPS

#### Style Analysis - 36 Months



**Appendix** 

Backdated Performance History December 31, 2016

Performance for the following funds has been backdated with share classes that offer a longer performance history.

Deferred Compensation							
Fund Name	Current Ticker	Current Share Class	Current Share Class Inception Date	Current Share Class Effective Dates	Prior Ticker	Prior Share Class	Prior Share Class Effective Dates
Victory Munder Mid-Cap Core Growth	MGOSX	R6	6/1/2012	Jul 1, 2012 - Present	MGOYX	Υ	Inception - Jun 30, 2012
T. Rowe Price Mid Cap Value Fund I	TRMIX	R7	10/31/1985	Jan 1, 2017 - Present	TRMCX	Υ	Inception - Dec 30, 2016

**Glossary of Terms** 

# Glossary

<u>Statistics</u>	<u>Definition</u>
Standard Deviation	- Typically referred to as Volatility or Risk, standard deviation measures the dispersion of actual returns around their average.
Beta	- Also called systematic risk or non-diversifiable risk, beta measures the sensitivity of asset returns to the market (benchmark). In isolation a lower beta is considered less risky but does not distinguish between upside and downside risk.
Sharpe Ratio	- Also called the reward-to-variability ratio, Sharpe Ratio measures the absolute rate of return per unit of risk and is calculated as the Excess Return vs. the Risk Free Rate divided by the standard deviation of the Excess Return. Investors prefer higher Sharpe Ratios (more return per unit of risk).
Information Ratio	- Measured by dividing the active rate of return by the tracking error. The higher the Information Ratio, the more value-added contribution by the manager. Negative Information Ratios are difficult to interpret.
Tracking Error	- A measure of the standard deviation of a portfolio's performance relative to the performance of an appropriate market benchmark.
Consistency	- The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. The higher the consistency figure, the more value a manager has contributed to the product's performance.
Up Capture	- The ratio of average portfolio return over the benchmark during periods of positive benchmark return. Higher values indicate better product performance.
Down Capture	- The ratio of average portfolio return over the benchmark during periods of negative benchmark return. Lower values indicate better product performance.

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