



### Vermont Pension Investment Committee

#### **First Fiscal Quarter 2018 Preliminary Investment Performance Analysis**

November 28, 2017

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# **Market Environment**



### **HIGHLIGHTS OF THIRD QUARTER HAPPENINGS AT NEPC**

| HEALTHCARE<br>OPERATING FUND<br>UNIVERSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Hyper would like to participate plasse context part MCPC consulting<br>Learn or weak Hearticare@XXPL.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

#### **NEPC INSIGHTS**

- A Tale of Two Countries: What's Next for Investors? (July 2017)
- Is the Buy-Write Strategy Right For You? (July 2017)
- 2017 2<sup>nd</sup> Quarter Market Thoughts (July 2017)
- The Top Three Stressors for Pension Plans (July 2017)
- 2017 Q2 Endowment & Foundation Survey Results & Infographic (August 2017)
- NEPC Healthcare Operating Fund Universe Results and Infographic (August 2017)
- Monitoring the Economic Impact of Harvey (August 2017)
- Market Chatter: Should the Underperformance of CTAs Give Investors Pause (September 2017)
- Defined Contribution Plan & Fee Survey: Healthcare Findings Infographic (September 2017)

#### WEBINAR REPLAYS

• NEPC's 12<sup>th</sup> Annual Defined Contribution Plan & Fee Survey (September 2017)

#### To download NEPC's recent insights and webinar replays, visit: <u>www.NEPC.com/insights</u>

#### **RECENT UPDATES**

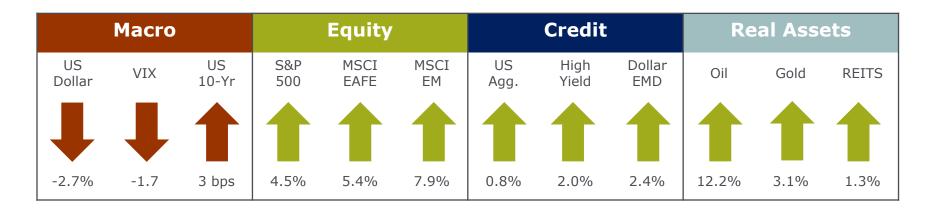
- Our team continues to grow: Please join us in welcoming our Partner, Sam Austin; and Senior Consultants, Kiersten Christensen, Andrew Coupe and Rick Ciccione!
- NEPC was featured in over 45 pieces of news coverage including Bloomberg, Pensions & Investments and FundFire to name a few.
- **SAVE THE DATE!** We will be hosting our 23<sup>rd</sup> Annual Investment Conference on May 14-15, 2018.





#### Performance Overview

### Q3 Market Summary

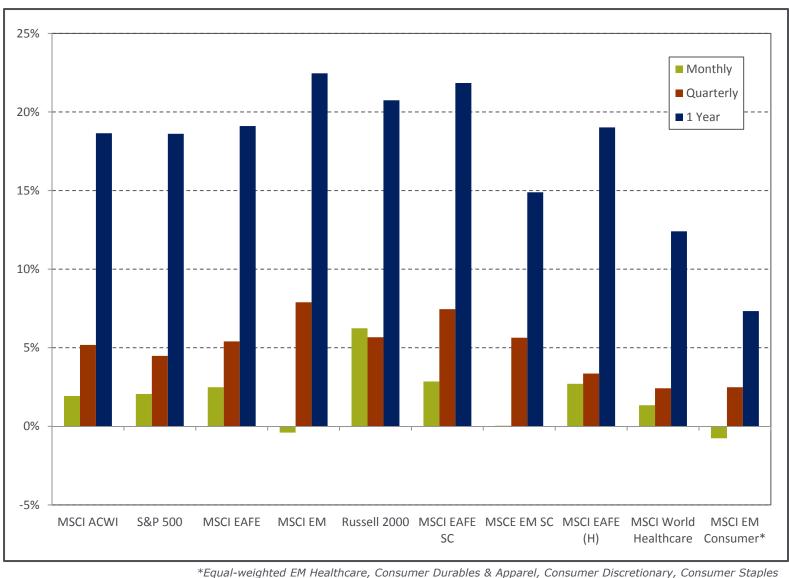


- Equities continued to push higher with supportive macroeconomic data, robust earnings, and accommodative central banks
  - Emerging markets continued their outperformance led by strong returns in China
- Bond yields were little changed over the quarter reflecting minimal volatility seen in US economic growth and inflation rates
- Reflecting the pro-risk environment, the US dollar declined relative to both the euro and yuan while volatility remained near historic lows

Market segment (index representation) as follows: US Dollar (DXY Index), VIX (CBOE Volatility Index), US 10-Year (US 10-Year Treasury Yield), S&P 500 (US Equity), MSCI EAFE Index (International Developed Equity), MSCI Emerging Markets (Emerging Markets Equity), US Agg (Barclays US Aggregate Bond Index), High Yield (Barclays US High Yield Index), Dollar EMD (JPM Emerging Market Bond Index), Crude Oil (WTI Crude Oil Spot), Gold (Gold Price Spot), and REITs (NAREIT Composite Index).



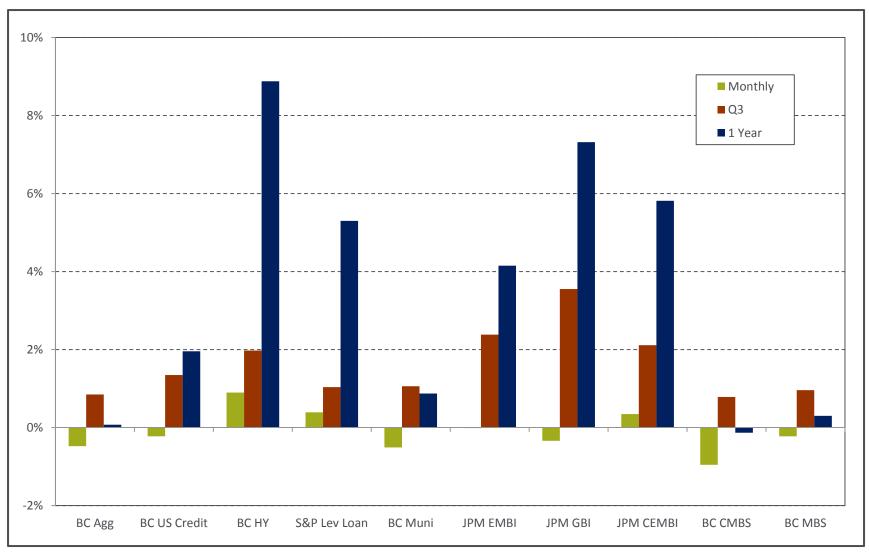
### Equity Index Returns- September 30, 2017



Source: MSCI, S&P, Russell, NEPC, Bloomberg



### Index Returns



Source: Barclays, S&P, JPM, Bloomberg



# State Municipal Employees' Retirement System

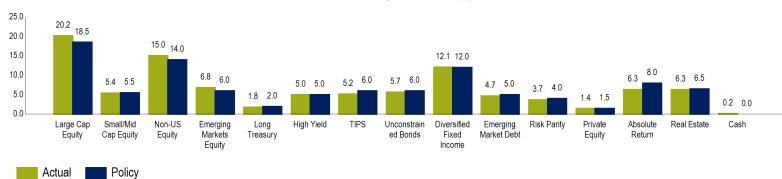


### Total Fund Performance Summary - Net

|                                    | Market Value  | 3 Mo F | Rank | Fiscal<br>YTD | Rank | YTD F | Rank | 1 Yr I | Rank | 3 Yrs I | Rank | 5 Yrs F | Rank | 7 Yrs F | Rank | 10 Yrs F | Rank |
|------------------------------------|---------------|--------|------|---------------|------|-------|------|--------|------|---------|------|---------|------|---------|------|----------|------|
| Total Municipal Composite          | \$636,080,505 | 3.0%   | 70   | 3.0%          | 70   | 10.3% | 63   | 10.5%  | 73   | 5.5%    | 80   | 6.2%    | 92   | 6.9%    | 86   | 4.4%     | 82   |
| Policy Index                       |               | 3.2%   | 54   | 3.2%          | 54   | 9.8%  | 75   | 9.9%   | 85   | 5.6%    | 79   | 6.2%    | 92   | 6.5%    | 94   | 4.4%     | 81   |
| Allocation Index                   |               | 3.4%   | 40   | 3.4%          | 40   | 10.5% | 56   | 10.5%  | 75   | 5.7%    | 75   | 6.4%    | 90   | 6.6%    | 94   | 4.5%     | 77   |
| InvestorForce Public DB Net Median |               | 3.3%   |      | 3.3%          |      | 10.7% |      | 11.6%  |      | 6.4%    |      | 8.0%    |      | 7.9%    |      | 5.3%     |      |

| 3 Years Ending September 30, 2017 |           |      |               |      |              |      |                  |      |  |
|-----------------------------------|-----------|------|---------------|------|--------------|------|------------------|------|--|
|                                   | Anlzd Ret | Rank | Anlzd Std Dev | Rank | Sharpe Ratio | Rank | Sortino Ratio RF | Rank |  |
| Total Municipal Composite         | 5.50%     | 80   | 5.32%         | 25   | 0.97         | 67   | 1.58             | 32   |  |
| Policy Index                      | 5.59%     | 79   | 4.97%         | 11   | 1.06         | 43   | 1.78             | 16   |  |
| Allocation Index                  | 5.73%     | 75   | 5.19%         | 21   | 1.04         | 48   | 1.67             | 23   |  |

| 5 Years Ending September 30, 2017 |           |      |               |      |              |      |                  |      |  |  |
|-----------------------------------|-----------|------|---------------|------|--------------|------|------------------|------|--|--|
|                                   | Anlzd Ret | Rank | Anlzd Std Dev | Rank | Sharpe Ratio | Rank | Sortino Ratio RF | Rank |  |  |
| Total Municipal Composite         | 6.25%     | 92   | 5.49%         | 32   | 1.10         | 89   | 1.89             | 77   |  |  |
| Policy Index                      | 6.23%     | 92   | 5.01%         | 12   | 1.20         | 75   | 2.13             | 55   |  |  |
| Allocation Index                  | 6.38%     | 90   | 5.17%         | 21   | 1.19         | 76   | 2.05             | 62   |  |  |





#### 20.0 15.0 10.0 Annualized Return 263 Portfolios 5.0 0.0 -5.0 -10.0 0.0 1.0 2.0 3.0 5.0 6.0 7.0 4.0 Annualized Standard Deviation Total Municipal Composite Policy Index ٠ Allocation Index

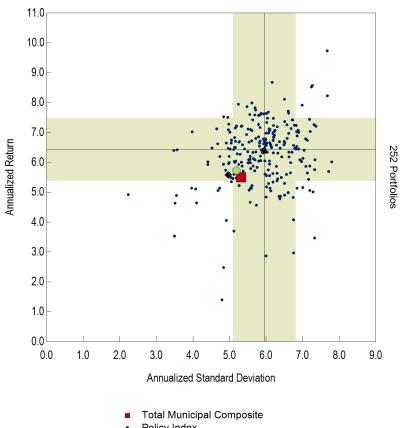
1 Years Ending September 30, 2017

|   |                                       | Anlzd<br>Return | Anlzd<br>Return<br>Rank | Anlzd<br>Standard<br>Deviation | Anlzd<br>Standard<br>Deviation<br>Rank | Sharpe<br>Ratio | Sharpe<br>Ratio<br>Rank |
|---|---------------------------------------|-----------------|-------------------------|--------------------------------|----------------------------------------|-----------------|-------------------------|
|   | Total Municipal Composite             | 10.52%          | 73                      | 2.81%                          | 35                                     | 3.49            | 61                      |
|   | Policy Index                          | 9.94%           | 85                      | 2.80%                          | 35                                     | 3.29            | 73                      |
|   | S&P 500                               | 18.61%          | 1                       | 5.46%                          | 99                                     | 3.28            | 74                      |
|   | Citi WGBI                             | -2.69%          | 99                      | 7.03%                          | 99                                     | -0.49           | 99                      |
| 1 |                                       |                 |                         |                                |                                        |                 |                         |
|   | MSCI ACWI                             | 18.65%          | 1                       | 4.57%                          | 99                                     | 3.92            | 33                      |
| : | MSCI ACWI ex USA                      | 19.61%          | 1                       | 6.63%                          | 99                                     | 2.85            | 89                      |
|   | InvestorForce Public DB Net<br>Median | 11.60%          |                         | 3.02%                          |                                        | 3.61            |                         |
|   |                                       |                 |                         |                                |                                        |                 |                         |

- 0
- Universe Median ٨
- 68% Confidence Interval
- InvestorForce Public DB Net



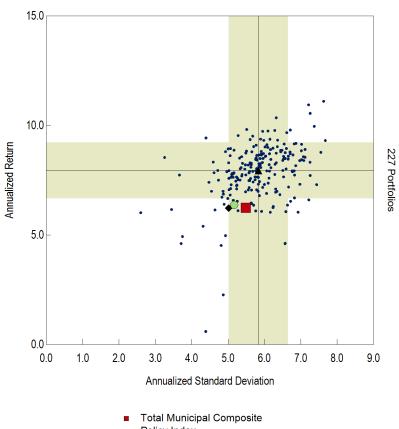
3 Years Ending September 30, 2017



- Policy Index
- Allocation Index
- ▲ Universe Median
- 68% Confidence Interval
- InvestorForce Public DB Net

|   |                                       | Anlzd<br>Return | Anlzd<br>Return<br>Rank | Anlzd<br>Standard<br>Deviation | Anlzd<br>Standard<br>Deviation<br>Rank | Sharpe<br>Ratio | Sharpe<br>Ratio<br>Rank |
|---|---------------------------------------|-----------------|-------------------------|--------------------------------|----------------------------------------|-----------------|-------------------------|
|   | Total Municipal Composite             | 5.50%           | 80                      | 5.32%                          | 25                                     | 0.97            | 67                      |
|   | Policy Index                          | 5.59%           | 79                      | 4.97%                          | 11                                     | 1.06            | 43                      |
|   | S&P 500                               | 10.81%          | 1                       | 10.07%                         | 99                                     | 1.04            | 48                      |
|   | Citi WGBI                             | 0.88%           | 99                      | 5.81%                          | 44                                     | 0.10            | 99                      |
| I |                                       |                 |                         |                                |                                        |                 |                         |
|   | MSCI ACWI                             | 7.43%           | 11                      | 10.57%                         | 99                                     | 0.67            | 97                      |
|   | MSCI ACWI ex USA                      | 4.70%           | 96                      | 12.25%                         | 99                                     | 0.36            | 99                      |
|   | InvestorForce Public DB Net<br>Median | 6.43%           |                         | 5.96%                          |                                        | 1.04            |                         |
|   |                                       |                 |                         |                                |                                        |                 |                         |

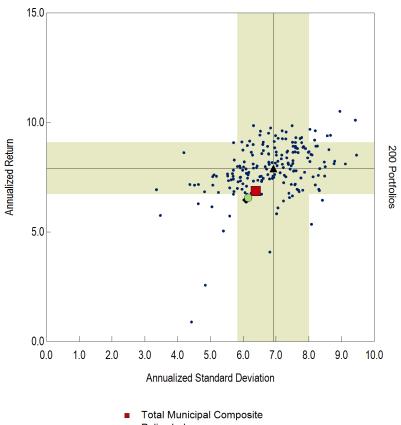
5 Years Ending September 30, 2017



- Policy Index ٠
- Allocation Index 0
- Universe Median
- 68% Confidence Interval
- InvestorForce Public DB Net ٠

|                                       | Anlzd<br>Return | Anlzd<br>Return<br>Rank | Anlzd<br>Standard<br>Deviation | Anlzd<br>Standard<br>Deviation<br>Rank | Sharpe<br>Ratio | Sharpe<br>Ratio<br>Rank |
|---------------------------------------|-----------------|-------------------------|--------------------------------|----------------------------------------|-----------------|-------------------------|
| Total Municipal Composite             | 6.25%           | 92                      | 5.49%                          | 32                                     | 1.10            | 89                      |
| Policy Index                          | 6.23%           | 92                      | 5.01%                          | 12                                     | 1.20            | 75                      |
| S&P 500                               | 14.22%          | 1                       | 9.55%                          | 99                                     | 1.47            | 22                      |
| Citi WGBI                             | -0.43%          | 99                      | 5.39%                          | 29                                     | -0.12           | 99                      |
|                                       |                 |                         |                                |                                        |                 |                         |
| MSCI ACWI                             | 10.20%          | 2                       | 9.94%                          | 99                                     | 1.00            | 93                      |
| MSCI ACWI ex USA                      | 6.97%           | 82                      | 11.55%                         | 99                                     | 0.59            | 99                      |
| InvestorForce Public DB Net<br>Median | 7.95%           |                         | 5.83%                          |                                        | 1.34            |                         |
|                                       |                 |                         |                                |                                        |                 |                         |

7 Years Ending September 30, 2017

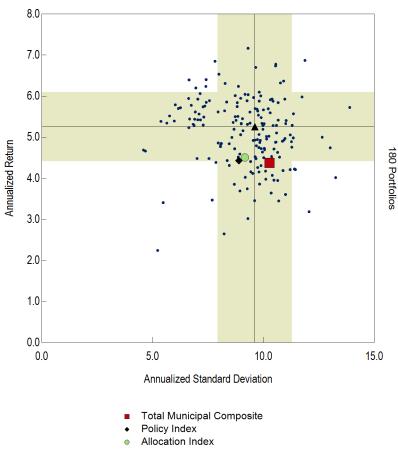


- Policy Index
- Allocation Index
- ▲ Universe Median
- 68% Confidence Interval
- InvestorForce Public DB Net

|   |                                       | Anlzd<br>Return | Anlzd<br>Return<br>Rank | Anlzd<br>Standard<br>Deviation | Anlzd<br>Standard<br>Deviation<br>Rank | Sharpe<br>Ratio | Sharpe<br>Ratio<br>Rank |
|---|---------------------------------------|-----------------|-------------------------|--------------------------------|----------------------------------------|-----------------|-------------------------|
| - | Total Municipal Composite             | 6.88%           | 86                      | 6.38%                          | 35                                     | 1.05            | 76                      |
|   | Policy Index                          | 6.46%           | 94                      | 6.09%                          | 24                                     | 1.03            | 77                      |
| ; | S&P 500                               | 14.38%          | 1                       | 10.90%                         | 99                                     | 1.30            | 19                      |
| ( | Citi WGBI                             | 0.80%           | 99                      | 5.48%                          | 9                                      | 0.12            | 99                      |
|   |                                       |                 |                         |                                |                                        |                 |                         |
|   | MSCI ACWI                             | 9.17%           | 11                      | 12.23%                         | 99                                     | 0.74            | 99                      |
| I | MSCI ACWI ex USA                      | 5.25%           | 99                      | 14.18%                         | 99                                     | 0.36            | 99                      |
|   | InvestorForce Public DB Net<br>Median | 7.91%           |                         | 6.92%                          |                                        | 1.14            |                         |
|   |                                       |                 |                         |                                |                                        |                 |                         |



#### 10 Years Ending September 30, 2017



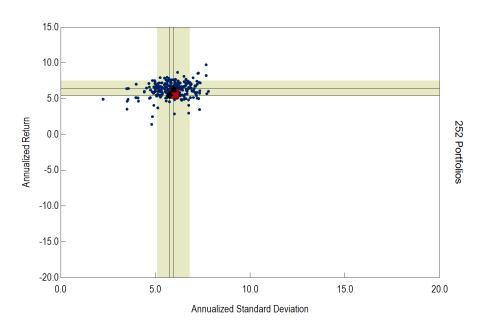
|                                    | Anlzd<br>Return | Anlzd<br>Return<br>Rank | Anlzd<br>Standard<br>Deviation | Anlzd<br>Standard<br>Deviation<br>Rank | Sharpe<br>Ratio | Sharpe<br>Ratio<br>Rank |
|------------------------------------|-----------------|-------------------------|--------------------------------|----------------------------------------|-----------------|-------------------------|
| Total Municipal Composite          | 4.38%           | 82                      | 10.27%                         | 73                                     | 0.39            | 85                      |
| Policy Index                       | 4.43%           | 81                      | 8.89%                          | 36                                     | 0.46            | 65                      |
| S&P 500                            | 7.44%           | 1                       | 15.14%                         | 99                                     | 0.47            | 62                      |
| Citi WGBI                          | 2.95%           | 99                      | 6.74%                          | 9                                      | 0.38            | 87                      |
|                                    |                 |                         |                                |                                        |                 |                         |
| MSCI ACWI                          | 3.88%           | 93                      | 16.89%                         | 99                                     | 0.21            | 99                      |
| MSCI ACWI ex USA                   | 1.28%           | 99                      | 19.06%                         | 99                                     | 0.05            | 99                      |
| InvestorForce Public DB Net Median | 5.26%           |                         | 9.60%                          |                                        | 0.51            |                         |

- Universe Median ۸
- 68% Confidence Interval
- InvestorForce Public DB Net •



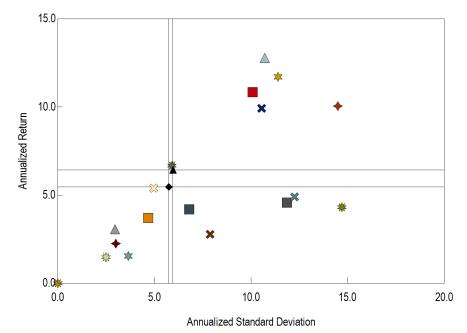
### Total Marketable Assets - Net

#### Annualized Return vs. Annualized Standard Deviation 3 Years Ending September 30, 2017



- Total Marketable Assets
- Total Marketable Assets Custom Index
- ▲ Universe Median
- 68% Confidence Interval
- InvestorForce Public DB Net

#### Annualized Return vs. Annualized Standard Deviation 3 Years Ending September 30, 2017



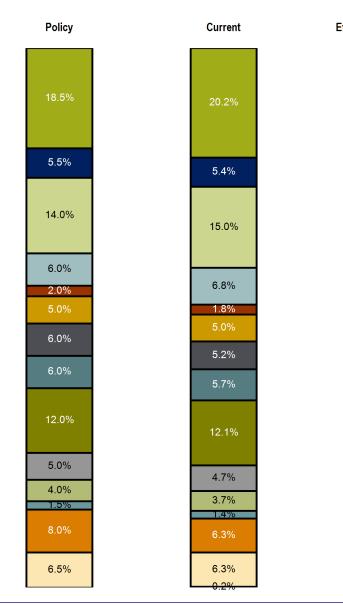
- SSgA S&P 500 Cap-Wgt
- \* SSgA S&P 500 Equal-Wgt
- T. Rowe
- ▲ Champlain
- Wellington
- \* Acadian
- Mondrian

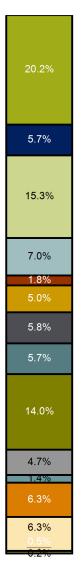
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- SSgA ACWI Ex US
- Aberdeen
- ▲ PIMCO Core Plus
- \* BlackRock TIPS

- KDP Guggenheim
  - Wellington Opportunistic EMD
  - + PIMCO Unconstrained
  - Mellon Dynamic Growth
  - \* AQR Global Risk Premium
- Vermont Cash
- Total Marketable Assets Custom Index
- ▲ Universe Median
- 68% Confidence Interval

### Total Fund Asset Allocation vs. Policy Targets





#### Effective Net Allocation

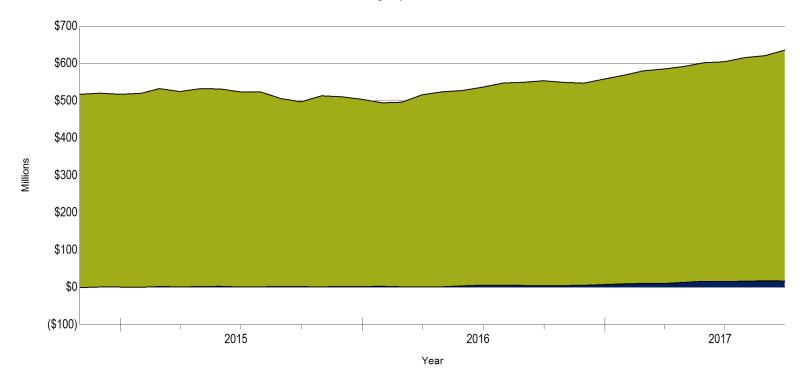
#### Asset Allocation vs. Target

|                          | Policy | Current | Effective Net<br>Allocation |
|--------------------------|--------|---------|-----------------------------|
| Large Cap Equity         | 18.5%  | 20.2%   | 20.2%                       |
| Small/Mid Cap Equity     | 5.5%   | 5.4%    | 5.7%                        |
| Non-US Equity            | 14.0%  | 15.0%   | 15.3%                       |
| Emerging Markets Equity  | 6.0%   | 6.8%    | 7.0%                        |
| Long Treasury            | 2.0%   | 1.8%    | 1.8%                        |
| High Yield               | 5.0%   | 5.0%    | 5.0%                        |
| TIPS                     | 6.0%   | 5.2%    | 5.8%                        |
| Unconstrained Bonds      | 6.0%   | 5.7%    | 5.7%                        |
| Diversified Fixed Income | 12.0%  | 12.1%   | 14.0%                       |
| Emerging Market Debt     | 5.0%   | 4.7%    | 4.7%                        |
| Risk Parity              | 4.0%   | 3.7%    |                             |
| Private Equity           | 1.5%   | 1.4%    | 1.4%                        |
| Absolute Return          | 8.0%   | 6.3%    | 6.3%                        |
| Real Estate              | 6.5%   | 6.3%    | 6.3%                        |
| Commodities              |        |         | 0.5%                        |
| Cash                     |        | 0.2%    | 0.2%                        |
| Total                    | 100.0% | 100.0%  | 100.0%                      |

Effective Net Allocation breaks out the exposure of AQR Global Risk Premium. Absolute Return includes Grosvenor, Pinnacle Natural Resources, L.P., and Allianz Structured Alpha.



### Total Fund Asset Growth Summary



Market Value 🛛 🚺 Net Cash Flow

|                        | Last Three<br>Months | Fiscal Year-To-Date | Year-To-Date   | One Year       | Three Years    |
|------------------------|----------------------|---------------------|----------------|----------------|----------------|
| Beginning Market Value | \$604,639,528        | \$604,639,528       | \$558,383,878  | \$553,870,927  | \$512,639,692  |
| Contributions          | \$42,161,429         | \$42,161,429        | \$114,768,169  | \$123,469,769  | \$347,454,240  |
| Withdrawals            | -\$41,265,182        | -\$41,265,182       | -\$105,346,505 | -\$111,378,604 | -\$330,642,338 |
| Net Cash Flow          | \$896,247            | \$896,247           | \$9,421,664    | \$12,091,165   | \$16,811,902   |
| Net Investment Change  | \$30,544,729         | \$30,544,729        | \$68,274,963   | \$70,118,412   | \$106,628,910  |
| Ending Market Value    | \$636,080,505        | \$636,080,505       | \$636,080,505  | \$636,080,505  | \$636,080,505  |



### Total Fund Asset Growth Summary by Manager

|                                              |                           |               | Quarter Ending Se | ptember 30, 2017 |                          |                        |
|----------------------------------------------|---------------------------|---------------|-------------------|------------------|--------------------------|------------------------|
|                                              | Beginning<br>Market Value | Contributions | Withdrawals       | Net Cash Flow    | Net Investment<br>Change | Ending<br>Market Value |
| Aberdeen                                     | \$41,632,293              | \$77,224      | -\$77,224         | \$0              | \$1,826,789              | \$43,459,082           |
| Acadian                                      | \$28,945,939              | \$32,798      | -\$8,732,798      | -\$8,700,000     | \$1,911,695              | \$22,157,634           |
| Allianz Structured Alpha                     | \$10,304,614              | \$0           | -\$46,575         | -\$46,575        | \$180,914                | \$10,438,953           |
| AQR Global Risk Premium                      | \$22,415,737              | \$49,128      | -\$49,128         | \$0              | \$1,024,398              | \$23,440,135           |
| BlackRock TIPS                               | \$27,671,211              | \$5,180,346   | -\$4,790          | \$5,175,557      | \$283,119                | \$33,129,886           |
| Champlain                                    | \$17,560,896              | \$1,504,567   | -\$29,117         | \$1,475,451      | \$1,598,955              | \$20,635,302           |
| GAM                                          | \$57,433                  | \$0           | \$0               | \$0              | \$10                     | \$57,443               |
| GAM Unconstrained Bond                       | \$20,964,213              | \$0           | -\$32,754         | -\$32,754        | \$306,421                | \$21,237,879           |
| Grosvenor                                    | \$26,590,503              | \$0           | -\$10,351,113     | -\$10,351,113    | \$274,422                | \$16,513,812           |
| Guggenheim                                   | \$24,158,169              | \$27,116      | -\$27,116         | \$0              | \$442,395                | \$24,600,565           |
| Harbourvest Dover IX Fund                    | \$965,582                 | \$185,737     | \$0               | \$185,737        | \$0                      | \$1,151,319            |
| Harbourvest Dover VIII Fund                  | \$2,247,565               | -\$58,065     | -\$72,484         | -\$130,549       | \$0                      | \$2,117,016            |
| Harbourvest Partners IX Buyout Fund          | \$2,016,890               | \$0           | -\$105,965        | -\$105,965       | \$0                      | \$1,910,925            |
| Harbourvest Partners IX Credit Opportunities | \$289,014                 | \$0           | -\$10,497         | -\$10,497        | \$0                      | \$278,517              |
| Harbourvest Partners IX Venture Fund         | \$1,467,961               | \$0           | -\$71,280         | -\$71,280        | \$0                      | \$1,396,681            |
| Harbourvest Partners X Buyout Fund           | \$856,081                 | \$0           | \$0               | \$0              | \$0                      | \$856,081              |
| Harbourvest Partners X Venture Fund          | \$425,119                 | \$108,130     | \$0               | \$108,130        | -\$48,523                | \$484,726              |
| HIPEP VII                                    | \$716,278                 | \$65,541      | \$0               | \$65,541         | \$160,261                | \$942,080              |
| KDP                                          | \$7,009,759               | \$9,225       | -\$9,225          | \$0              | \$105,469                | \$7,115,228            |
| Mellon Dynamic Growth                        | \$16,023                  | \$0           | \$0               | \$0              | \$19                     | \$16,042               |
| Mondrian                                     | \$25,108,688              | \$1,520,477   | -\$5,620,477      | -\$4,100,000     | \$1,501,490              | \$22,510,178           |
| PIMCO Core Plus                              | \$36,876,872              | \$22,710      | -\$22,710         | \$0              | \$432,862                | \$37,309,734           |
| PIMCO Unconstrained                          | \$14,897,276              | \$21,054      | -\$21,054         | \$0              | \$224,259                | \$15,121,535           |
| Pinnacle Natural Resources, L.P.             | \$12,821,844              | \$0           | \$0               | \$0              | \$366,735                | \$13,188,579           |
| RREEF America REIT III                       | \$55,613                  | \$0           | -\$331            | -\$331           | \$19,507                 | \$74,789               |
|                                              |                           |               |                   |                  |                          |                        |



### Total Fund Asset Growth Summary by Manager

|                                              |                           |               | Quarter Ending Septe | ember 30, 2017 |                          |                        |
|----------------------------------------------|---------------------------|---------------|----------------------|----------------|--------------------------|------------------------|
|                                              | Beginning<br>Market Value | Contributions | Withdrawals          | Net Cash Flow  | Net Investment<br>Change | Ending<br>Market Value |
| Siguler Guff DREOF II                        | \$6,452,598               | \$0           | -\$3,932             | -\$3,932       | \$1,558,130              | \$8,006,796            |
| Siguler Guff DREOF II Co-Investment          | \$1,288,501               | \$49,979      | \$0                  | \$49,979       | \$11,498                 | \$1,349,978            |
| SSgA ACWI Ex US                              | \$34,577,959              | \$14,305,839  | -\$5,839             | \$14,300,000   | \$2,163,010              | \$51,040,969           |
| SSgA Barclays Aggregate Index                | \$31,418,855              | \$7,902,342   | -\$3,647             | \$7,898,695    | \$329,219                | \$39,646,768           |
| SSgA S&P 500 Cap-Wgt                         | \$94,853,221              | \$4,480       | -\$4,480             | \$0            | \$4,258,751              | \$99,111,972           |
| SSgA S&P 500 Equal-Wgt                       | \$28,500,373              | \$0           | \$0                  | \$0            | \$1,034,955              | \$29,535,328           |
| State Street Long U.S. Treasury Index        | \$11,474,780              | \$420         | \$0                  | \$420          | \$61,727                 | \$11,536,927           |
| T. Rowe                                      | \$1,141                   | \$0           | \$0                  | \$0            | \$0                      | \$1,141                |
| Transwestern / Aslan III                     | \$28,766                  | \$0           | \$0                  | \$0            | \$0                      | \$28,766               |
| UBS Trumbull                                 | \$11,232,427              | \$11,069,668  | -\$62,549            | \$11,007,119   | \$8,431,870              | \$30,671,416           |
| Vermont Cash                                 | \$1,292,022               | \$58,024      | -\$166,144           | -\$108,120     | \$0                      | \$1,183,902            |
| Wellington                                   | \$14,799,757              | \$24,688      | -\$2,237,865         | -\$2,213,176   | \$1,293,865              | \$13,880,446           |
| Wellington Opportunistic EMD                 | \$29,151,468              | \$0           | \$0                  | \$0            | \$790,508                | \$29,941,976           |
| Z Terminated - Morgan Stanley Prime Property | \$13,496,090              | \$0           | -\$13,496,090        | -\$13,496,090  | \$0                      |                        |
| Total                                        | \$604,639,528             | \$42,161,429  | -\$41,265,182        | \$896,247      | \$30,544,729             | \$636,080,505          |



|                                         | Market Value<br>(\$) | % of<br>Portfolio | Policy % | 3 Mo<br>(%) | Rank | Fiscal<br>YTD<br>(%) | Rank | YTD<br>(%) | Rank | 1 Yr<br>(%) | Rank | 3 Yrs<br>(%) | Rank | 5 Yrs<br>(%) | Rank | 10 Yrs<br>(%) | Rank |
|-----------------------------------------|----------------------|-------------------|----------|-------------|------|----------------------|------|------------|------|-------------|------|--------------|------|--------------|------|---------------|------|
| Total Municipal Composite               | 636,080,505          | 100.0             | 100.0    | 3.0         | 70   | 3.0                  | 70   | 10.3       | 63   | 10.5        | 73   | 5.5          | 80   | 6.2          | 92   | 4.4           | 82   |
| Policy Index                            |                      |                   |          | 3.2         | 54   | 3.2                  | 54   | 9.8        | 75   | 9.9         | 85   | 5.6          | 79   | 6.2          | 92   | 4.4           | 81   |
| Allocation Index                        |                      |                   |          | 3.4         | 40   | 3.4                  | 40   | 10.5       | 56   | 10.5        | 75   | 5.7          | 75   | 6.4          | 90   | 4.5           | 77   |
| InvestorForce Public DB Net Median      |                      |                   |          | 3.3         |      | 3.3                  |      | 10.7       |      | 11.6        |      | 6.4          |      | 8.0          |      | 5.3           |      |
| Total Marketable Assets                 | 546,612,627          | 85.9              | 84.0     | 3.2         | 52   | 3.2                  | 52   | 11.5       | 28   | 11.4        | 54   | 5.7          | 76   | 6.2          | 93   |               |      |
| Total Marketable Assets Custom<br>Index |                      |                   |          | 3.5         | 30   | 3.5                  | 30   | 10.8       | 46   | 10.4        | 75   | 5.5          | 82   | 6.3          | 92   |               |      |
| InvestorForce Public DB Net<br>Median   |                      |                   |          | 3.3         |      | 3.3                  |      | 10.7       |      | 11.6        |      | 6.4          |      | 8.0          |      | 5.3           |      |
| Total Domestic Equity                   | 163,164,188          | 25.7              | 24.0     | 3.7         | 69   | 3.7                  | 69   | 11.9       | 54   | 17.1        | 62   | 11.0         | 35   |              |      |               |      |
| Russell 3000                            |                      |                   |          | 4.6         | 48   | 4.6                  | 48   | 13.9       | 40   | 18.7        | 48   | 10.7         | 38   | 14.2         | 38   | 7.6           | 52   |
| eA All US Equity Net Median             |                      |                   |          | 4.5         |      | 4.5                  |      | 12.4       |      | 18.5        |      | 9.9          |      | 13.6         |      | 7.6           |      |
| Total Large Cap Equities                | 128,648,440          | 20.2              | 18.5     | 4.3         | 55   | 4.3                  | 55   | 13.7       | 50   | 18.0        | 53   | 10.6         | 28   | 14.5         | 26   | 8.0           | 31   |
| S&P 500                                 |                      |                   |          | 4.5         | 49   | 4.5                  | 49   | 14.2       | 44   | 18.6        | 46   | 10.8         | 25   | 14.2         | 32   | 7.4           | 45   |
| eA US Large Cap Equity Net<br>Median    |                      |                   |          | 4.5         |      | 4.5                  |      | 13.6       |      | 18.2        |      | 9.4          |      | 13.4         |      | 7.3           |      |
| SSgA S&P 500 Cap-Wgt                    | 99,111,972           | 15.6              | 14.0     | 4.5         | 49   | 4.5                  | 49   | 14.2       | 44   | 18.6        | 46   | 10.8         | 25   | 14.2         | 31   |               |      |
| S&P 500                                 |                      |                   |          | 4.5         | 49   | 4.5                  | 49   | 14.2       | 44   | 18.6        | 46   | 10.8         | 25   | 14.2         | 32   | 7.4           | 45   |
| SSgA S&P 500 Equal-Wgt                  | 29,535,328           | 4.6               | 4.5      | 3.6         | 71   | 3.6                  | 71   | 11.9       | 66   | 16.0        | 72   | 9.9          | 40   | 15.0         | 16   | 8.6           | 17   |
| S&P 500 Equal Weighted                  |                      |                   |          | 3.6         | 73   | 3.6                  | 73   | 11.9       | 65   | 16.2        | 70   | 10.1         | 38   | 15.0         | 15   | 8.9           | 13   |
| T. Rowe                                 | 1,141                | 0.0               | 0.0      |             |      |                      |      |            |      |             |      |              |      |              |      |               |      |



|                                            | Market Value<br>(\$) | % of<br>Portfolio | Policy % | 3 Mo<br>(%) | Rank     | Fiscal<br>YTD<br>(%) | Rank     | YTD<br>(%)   | Rank     | 1 Yr<br>(%)  | Rank     | 3 Yrs<br>(%) | Rank     | 5 Yrs<br>(%) | Rank     | 10 Yrs<br>(%) | Rank   |
|--------------------------------------------|----------------------|-------------------|----------|-------------|----------|----------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|---------------|--------|
| Total Small/Mid Cap Equities               | 34,515,747           | 5.4               | 5.5      | 1.3         | 95       | 1.3                  | 95       | 5.9          | 89       | 13.8         | 85       | 11.3         | 27       | 13.9         | 38       | 8.6           | 35     |
| Russell 2000                               |                      |                   |          | 5.7         | 22       | 5.7                  | 22       | 10.9         | 51       | 20.7         | 24       | 12.2         | 18       | 13.8         | 39       | 7.8           | 53     |
| eA US Small-Mid Cap Equity Net<br>Median   |                      |                   |          | 4.1         |          | 4.1                  |          | 11.0         |          | 18.0         |          | 9.8          |          | 13.3         |          | 8.0           |        |
| Champlain                                  | 20,635,302           | 3.2               | 2.8      | 2.0         | 88       | 2.0                  | 88       | 12.9         | 46       | 17.4         | 42       | 12.8         | 8        | 15.6         | 14       |               |        |
| Russell 2500                               |                      |                   |          | 4.7         | 29       | 4.7                  | 29       | 11.0         | 57       | 17.8         | 41       | 10.6         | 31       | 13.9         | 46       | 8.2           | 49     |
| eA US Mid Cap Equity Net<br>Median         |                      |                   |          | 3.7         |          | 3.7                  |          | 11.9         |          | 16.4         |          | 9.4          |          | 13.5         |          | 8.1           |        |
| Wellington                                 | 13,880,446           | 2.2               | 2.8      | 0.5         | 97       | 0.5                  | 97       | -1.9         | 99       | 10.5         | 98       | 10.0         | 67       | 12.2         | 76       | 8.7           | 30     |
| Russell 2000 Value                         |                      |                   |          | 5.1         | 45       | 5.1                  | 45       | 5.7          | 63       | 20.5         | 44       | 12.1         | 36       | 13.3         | 60       | 7.1           | 72     |
| eA US Small Cap Value Equity<br>Net Median |                      |                   |          | 5.0         |          | 5.0                  |          | 6.6          |          | 19.8         |          | 11.0         |          | 14.0         |          | 7.9           |        |
| Total Non US Equity                        | 139,167,863          | 21.9              | 20.0     | 5.7         |          | 5.7                  |          | 23.7         |          | 20.9         |          | 6.2          |          | 7.6          |          |               |        |
| MSCI EAFE                                  |                      |                   |          | 5.4         |          | 5.4                  |          | 20.0         |          | 19.1         |          | 5.0          |          | 8.4          |          | 1.3           |        |
| MSCI ACWI ex USA                           |                      |                   |          | 6.2         |          | 6.2                  |          | 21.1         |          | 19.6         |          | 4.7          |          | 7.0          |          | 1.3           |        |
| Total Core Non US Equity                   | 95,708,781           | 15.0              | 14.0     | 6.3         | 44       | 6.3                  | 44       | 23.5         | 34       | 22.9         | 27       | 7.3          | 40       | 10.0         | 37       | 1.8           | 67     |
| MSCI EAFE                                  |                      |                   |          | 5.4         | 65       | 5.4                  | 65       | 20.0         | 68       | 19.1         | 58       | 5.0          | 75       | 8.4          | 69       | 1.3           | 81     |
| eA All EAFE Equity Net Median              |                      |                   |          | 5.9         |          | 5.9                  |          | 21.4         |          | 19.7         | -        | 6.3          |          | 9.4          |          | 2.7           |        |
| Acadian                                    | 22,157,634           | 3.5               | 4.0      | 6.9         | 37       | 6.9                  | 37       | 30.3         | 9        | 30.6         | 3        | 11.7         | 10       | 13.1         | 15       | 2.2           | 64     |
| Mondrian                                   | 22,510,178           | 3.5               | 4.0      | 5.8         | 53       | 5.8                  | 53       | 18.6         | 77       | 17.9         | 68       | 4.6          | 82       | 8.4          | 68       | 2.0           | 66     |
| MSCI EAFE                                  | F1 040 000           | 0.0               | 0.0      | 5.4         | 65       | 5.4                  | 65       | 20.0         | 68       | 19.1         | 58       | 5.0          | 75       | 8.4          | 69       | 1.3           | 81     |
| SSgA ACWI Ex US<br>MSCI ACWI ex USA        | 51,040,969           | 8.0               | 6.0      | 6.2<br>6.2  | 51<br>51 | 6.2<br>6.2           | 51<br>51 | 21.4<br>21.1 | 66<br>69 | 19.8<br>19.6 | 54<br>56 | 4.9<br>4.7   | 74<br>77 | 7.2<br>7.0   | 81<br>84 | <br>1.3       | <br>84 |
| eA ACWI ex-US All Cap Equity               |                      |                   |          | 6.2         | 51       | 6.2                  | 51       | 21.1         | 09       | 20.4         | 50       | 4.7<br>6.7   | 11       | 9.2          | 04       | 2.7           | 04     |
| Net Median                                 |                      |                   |          | 0.2         |          |                      |          | 24.0         |          |              |          | 0.7          |          | 9.2          |          | 2.7           |        |
| Total Emerging Market Equity               | 43,459,082           | 6.8               | 6.0      | 4.2         | 88       | 4.2                  | 88       | 23.8         | 76       | 17.1         | 80       | 4.3          | 69       | 3.2          | 88       |               |        |
| Aberdeen                                   | 43,459,082           | 6.8               | 6.0      | 4.2         | 88       | 4.2                  | 88       | 23.8         | 76       | 17.1         | 80       | 4.3          | 69       | 3.2          | 88       |               |        |
| MSCI Emerging Markets                      |                      |                   |          | 7.9         | 46       | 7.9                  | 46       | 27.8         | 55       | 22.5         | 45       | 4.9          | 59       | 4.0          | 77       | 1.3           | 79     |
| eA Emg Mkts Equity Net<br>Median           |                      |                   |          | 7.8         |          | 7.8                  |          | 28.4         |          | 21.9         |          | 5.3          |          | 5.2          |          | 2.3           |        |

|                                                | Market Value<br>(\$) | % of<br>Portfolio | Policy % | 3 Mo<br>(%) | Rank | Fiscal<br>YTD<br>(%) | Rank | YTD<br>(%) | Rank | 1 Yr<br>(%) | Rank | 3 Yrs<br>(%) | Rank | 5 Yrs<br>(%) | Rank | 10 Yrs<br>(%) | Rank |
|------------------------------------------------|----------------------|-------------------|----------|-------------|------|----------------------|------|------------|------|-------------|------|--------------|------|--------------|------|---------------|------|
| Total Fixed Income                             | 219,640,498          | 34.5              | 36.0     | 1.3         | 29   | 1.3                  | 29   | 5.1        | 29   | 3.3         | 25   | 4.1          | 28   |              |      |               |      |
| BBgBarc US Aggregate TR                        |                      |                   |          | 0.8         | 55   | 0.8                  | 55   | 3.1        | 56   | 0.1         | 87   | 2.7          | 54   | 2.1          | 59   | 4.3           | 54   |
| eA All US Fixed Inc Net Median                 |                      |                   |          | 0.9         |      | 0.9                  |      | 3.4        |      | 1.1         |      | 2.9          |      | 2.5          |      | 4.4           |      |
| Total Diversified Fixed Income                 | 76,956,503           | 12.1              | 12.0     | 1.0         | 42   | 1.0                  | 42   | 4.1        | 39   | -0.2        | 93   | 4.2          | 28   | 3.2          | 38   | 4.2           | 57   |
| BBgBarc US Aggregate TR                        |                      |                   |          | 0.8         | 55   | 0.8                  | 55   | 3.1        | 56   | 0.1         | 87   | 2.7          | 54   | 2.1          | 59   | 4.3           | 54   |
| eA All US Fixed Inc Net Median                 |                      |                   |          | 0.9         |      | 0.9                  |      | 3.4        |      | 1.1         |      | 2.9          |      | 2.5          |      | 4.4           |      |
| PIMCO Core Plus                                | 37,309,734           | 5.9               | 6.0      | 1.1         | 9    | 1.1                  | 9    | 4.4        | 5    | 1.2         | 18   | 3.1          | 28   | 2.1          | 66   |               |      |
| BBgBarc US Aggregate TR                        |                      |                   |          | 0.8         | 52   | 0.8                  | 52   | 3.1        | 64   | 0.1         | 73   | 2.7          | 61   | 2.1          | 66   | 4.3           | 78   |
| SSgA Barclays Aggregate Index                  | 39,646,768           | 6.2               | 6.0      | 0.9         | 31   | 0.9                  | 31   | 3.2        | 61   | 0.1         | 69   |              |      |              |      |               |      |
| BBgBarc US Aggregate TR                        |                      |                   |          | 0.8         | 52   | 0.8                  | 52   | 3.1        | 64   | 0.1         | 73   | 2.7          | 61   | 2.1          | 66   | 4.3           | 78   |
| 3-Month Libor Total Return USD                 |                      |                   |          | 0.3         | 99   | 0.3                  | 99   | 0.9        | 99   | 1.2         | 19   | 0.7          | 99   | 0.5          | 99   | 0.9           | 99   |
| eA US Core Fixed Inc Net                       |                      |                   |          | 0.9         |      | 0.9                  |      | 3.3        |      | 0.4         |      | 2.8          |      | 2.3          |      | 4.6           |      |
| Median                                         |                      |                   |          | 0.9         |      | 0.9                  |      | 3.3        |      | 0.4         |      | 2.0          |      | 2.3          |      | 4.0           |      |
| Total TIPS                                     | 33,129,886           | 5.2               | 6.0      | 0.8         | 74   | 0.8                  | 74   | 1.6        | 57   | -0.8        | 70   | 1.6          | 28   | -0.1         | 53   |               |      |
| BlackRock TIPS                                 | 33,129,886           | 5.2               | 6.0      | 0.8         |      | 0.8                  |      | 1.6        |      | -0.8        |      | 1.5          |      | -0.1         |      |               |      |
| BBgBarc US TIPS TR                             |                      |                   |          | 0.9         |      | 0.9                  |      | 1.7        |      | -0.7        |      | 1.6          |      | 0.0          |      | 3.9           |      |
| Total High Yield Bonds                         | 31,715,793           | 5.0               | 5.0      | 1.6         | 68   | 1.6                  | 68   | 5.4        | 80   | 8.1         | 53   | 5.1          | 50   | 5.9          | 40   | 7.2           | 44   |
| BBgBarc US High Yield TR                       |                      |                   |          | 2.0         | 35   | 2.0                  | 35   | 7.0        | 26   | 8.9         | 34   | 5.8          | 26   | 6.4          | 26   | 7.8           | 15   |
| eA US High Yield Fixed Inc Net                 |                      |                   |          | 1.8         |      | 1.8                  |      | 6.5        |      | 8.1         |      | 5.0          |      | 5.7          |      | 7.0           |      |
| Median                                         |                      |                   |          | 1.0         |      |                      |      |            |      |             |      |              |      |              |      | 7.0           |      |
| KDP                                            | 7,115,228            | 1.1               | 1.0      | 1.4         | 82   | 1.4                  | 82   | 4.9        | 86   | 5.6         | 89   | 3.7          | 88   | 4.2          | 95   |               |      |
| BBgBarc US High Yield TR                       |                      |                   |          | 2.0         | 35   | 2.0                  | 35   | 7.0        | 26   | 8.9         | 34   | 5.8          | 26   | 6.4          | 26   | 7.8           | 15   |
| BofA Merrill Lynch US High<br>Yield BB-B Rated |                      |                   |          | 1.9         | 40   | 1.9                  | 40   | 6.6        | 47   | 8.0         | 56   | 5.8          | 27   | 6.1          | 31   | 7.2           | 42   |
| Guggenheim                                     | 24,600,565           | 3.9               | 4.0      | 1.7         | 62   | 1.7                  | 62   | 5.5        | 79   | 8.8         | 36   | 5.4          | 36   |              |      |               |      |
| BBgBarc US High Yield TR                       | 21,000,000           | 0.0               | 1.0      | 2.0         | 35   | 2.0                  | 35   | 7.0        | 26   | 8.9         | 34   | 5.8          | 26   | 6.4          | 26   | 7.8           | 15   |
| eA US High Yield Fixed Inc                     |                      |                   |          |             |      |                      |      |            | 20   |             | 0,   |              | 20   |              | 20   |               | 10   |
| Net Median                                     |                      |                   |          | 1.8         |      | 1.8                  |      | 6.5        |      | 8.1         |      | 5.0          |      | 5.7          |      | 7.0           |      |
|                                                |                      |                   |          |             |      |                      |      |            |      |             |      |              |      |              |      |               |      |



|                                                 | Market Value<br>(\$) | % of<br>Portfolio | Policy % | 3 Mo<br>(%) | Rank | Fiscal<br>YTD<br>(%) | Rank | YTD<br>(%) | Rank | 1 Yr<br>(%) | Rank | 3 Yrs<br>(%) | Rank | 5 Yrs<br>(%) | Rank | 10 Yrs<br>(%) | Rank |
|-------------------------------------------------|----------------------|-------------------|----------|-------------|------|----------------------|------|------------|------|-------------|------|--------------|------|--------------|------|---------------|------|
| Total Emerging Market Debt                      | 29,941,976           | 4.7               | 5.0      | 2.7         | 81   | 2.7                  | 81   | 9.7        | 68   | 6.5         | 63   | 6.7          | 10   | 5.0          | 17   |               |      |
| Wellington Opportunistic EMD                    | 29,941,976           | 4.7               | 5.0      | 2.7         | 81   | 2.7                  | 81   | 9.7        | 68   | 6.5         | 63   | 6.7          | 10   | 5.0          | 17   |               |      |
| JP Morgan EMBI Global Index                     |                      |                   |          | 2.4         | 91   | 2.4                  | 91   | 8.7        | 81   | 4.2         | 94   | 6.1          | 19   | 4.3          | 31   | 7.3           | 30   |
| eA All Emg Mkts Fixed Inc Net<br>Median         |                      |                   |          | 3.3         |      | 3.3                  |      | 11.6       |      | 7.4         |      | 4.6          |      | 3.1          |      | 6.5           |      |
| Total Long Treasury                             | 11,536,927           | 1.8               | 2.0      | 0.5         |      | 0.5                  |      |            |      |             |      |              |      |              |      |               |      |
| State Street Long U.S. Treasury<br>Index        | 11,536,927           | 1.8               | 2.0      | 0.5         |      | 0.5                  |      |            |      |             |      |              |      |              |      |               |      |
| BBgBarc US Treasury Long TR                     |                      |                   |          | 0.6         |      | 0.6                  |      | 6.0        |      | -6.4        |      | 4.9          |      | 2.8          |      | 6.9           |      |
| Total Unconstrained Fixed<br>Income             | 36,359,413           | 5.7               | 6.0      | 1.3         | 77   | 1.3                  | 77   | 5.6        | 53   | 6.9         | 31   |              |      |              |      |               |      |
| 25% HY, 25% EMD, 50% BC Agg                     |                      |                   |          | 1.5         | 68   | 1.5                  | 68   | 5.5        | 58   | 3.3         | 85   | 4.4          | 14   | 3.7          | 30   | 6.0           | 30   |
| BBgBarc Global Aggregate TR                     |                      |                   |          | 1.8         | 50   | 1.8                  | 50   | 6.3        | 50   | -1.3        | 99   | 1.3          | 88   | 0.5          | 93   | 3.3           | 88   |
| eA Global Unconstrained Fixed<br>Inc Net Median |                      |                   |          | 1.8         |      | 1.8                  |      | 6.0        |      | 6.1         |      | 2.6          |      | 2.7          |      | 5.0           |      |
| PIMCO Unconstrained                             | 15,121,535           | 2.4               | 2.5      | 1.4         | 76   | 1.4                  | 76   | 4.5        | 75   | 5.8         | 59   | 2.2          | 62   | 1.5          | 89   |               |      |
| 25% HY, 25% EMD, 50% BC<br>Agg                  |                      |                   |          | 1.5         | 68   | 1.5                  | 68   | 5.5        | 58   | 3.3         | 85   | 4.4          | 14   | 3.7          | 30   | 6.0           | 30   |
| 3-Month Libor Total Return USD                  |                      |                   |          | 0.3         | 99   | 0.3                  | 99   | 0.9        | 99   | 1.2         | 99   | 0.7          | 92   | 0.5          | 93   | 0.9           | 99   |
| GAM Unconstrained Bond                          | 21,237,879           | 3.3               | 3.5      | 1.3         | 78   | 1.3                  | 78   | 6.4        | 43   | 7.7         | 25   |              |      |              |      |               |      |
| 3-Month LIBOR + 3%                              |                      |                   |          | 1.1         | 85   | 1.1                  | 85   | 3.2        | 89   | 4.2         | 74   | 3.7          | 27   | 3.5          | 31   | 3.9           | 78   |
| eA Global Unconstrained Fixed<br>Inc Net Median |                      |                   |          | 1.8         |      | 1.8                  |      | 6.0        |      | 6.1         |      | 2.6          |      | 2.7          |      | 5.0           |      |



### Total Fund Performance Detail - Net

|                                                  | Market Value<br>(\$) | % of<br>Portfolio | Policy % | 3 Mo<br>(%) | Rank | Fiscal<br>YTD<br>(%) | Rank | YTD<br>(%) | Rank | 1 Yr<br>(%) | Rank | 3 Yrs<br>(%) | Rank | 5 Yrs<br>(%) | Rank | 10 Yrs<br>(%) | Rank |
|--------------------------------------------------|----------------------|-------------------|----------|-------------|------|----------------------|------|------------|------|-------------|------|--------------|------|--------------|------|---------------|------|
| Total Risk Parity/GAA                            | 23,456,177           | 3.7               | 4.0      | 4.3         | 28   | 4.3                  | 28   | 9.9        | 49   | 7.5         | 61   | 2.9          | 58   | 3.8          | 64   | 4.2           | 51   |
| Mellon Dynamic Growth                            | 16,042               | 0.0               | 0.0      | 0.1         | 97   | 0.1                  | 97   | 4.3        | 61   | 2.6         | 89   | 4.2          | 30   | 5.0          | 58   | 2.6           | 63   |
| Mellon Dynamic Growth<br>Benchmark               |                      |                   |          | 3.9         | 14   | 3.9                  | 14   | 12.2       | 12   | 9.8         | 29   | 4.8          | 23   | 6.0          | 37   | 3.7           | 35   |
| eV Alt Fund of Funds - Multi-<br>Strategy Median |                      |                   |          | 2.1         |      | 2.1                  |      | 5.3        |      | 6.5         |      | 2.6          |      | 5.3          |      | 3.0           |      |
| Total Risk Parity                                | 23,440,135           | 3.7               | 4.0      | 4.4         | 28   | 4.4                  | 28   | 10.4       | 47   | 7.7         | 59   | 2.8          | 59   | 3.4          | 66   |               |      |
| eA Global TAA Net Median                         |                      |                   |          | 3.0         |      | 3.0                  |      | 9.6        |      | 8.5         |      | 3.5          |      | 4.6          |      | 4.2           |      |
| AQR Global Risk Premium                          | 23,440,135           | 3.7               | 4.0      | 4.4         | 28   | 4.4                  | 28   | 10.4       | 47   | 7.7         | 59   | 2.8          | 59   | 3.4          | 66   |               |      |
| 60% MSCI World (Net) / 40%<br>CITI WGBI          |                      |                   |          | 3.6         | 39   | 3.6                  | 39   | 12.1       | 39   | 9.4         | 41   | 5.1          | 28   | 6.4          | 26   | 4.0           | 53   |
| Total Cash                                       | 1,183,902            | 0.2               | 0.0      |             |      |                      |      |            |      |             |      |              |      |              |      |               |      |
| Vermont Cash                                     | 1,183,902            | 0.2               | 0.0      |             |      |                      |      |            |      |             |      |              |      |              |      |               |      |
| Total Real Estate                                | 40,131,745           | 6.3               | 6.5      | 1.8         |      | 1.8                  |      | 4.3        |      | 6.4         |      | 8.7          |      | 10.4         |      |               |      |
| NCREIF Property Index                            |                      |                   |          | 1.7         |      | 1.7                  |      | 5.1        |      | 6.9         |      | 9.8          |      | 10.3         |      | 6.2           |      |
| Total Real Estate Core                           | 30,774,971           | 4.8               | 5.0      | 1.3         |      | 1.3                  |      | 3.2        |      | 5.1         |      | 8.3          |      | 10.2         |      |               |      |
| UBS Trumbull                                     | 30,671,416           | 4.8               |          | 1.3         |      | 1.3                  |      | 3.2        |      | 4.4         |      | 7.0          |      | 7.9          |      | 4.1           |      |
| RREEF America REIT III                           | 74,789               | 0.0               |          | -0.8        |      | -0.8                 |      | -4.8       |      | -5.1        |      | -4.5         |      | 4.8          |      | -6.4          |      |
| Transwestern / Aslan III                         | 28,766               | 0.0               |          | 0.0         |      | 0.0                  |      | 0.0        |      | 0.0         |      | 7.8          |      | 16.1         |      | -20.8         |      |
| Total Real Estate Non-Core                       | 9,356,774            | 1.5               | 1.5      | 3.3         |      | 3.3                  |      | 7.8        |      | 11.0        |      | 9.2          |      |              |      |               |      |
| Siguler Guff DREOF II                            | 8,006,796            | 1.3               |          | 3.8         |      | 3.8                  |      | 8.1        |      | 12.3        |      | 9.6          |      |              |      |               |      |
| Siguler Guff DREOF II Co-<br>Investment          | 1,349,978            | 0.2               |          | 0.9         |      | 0.9                  |      | 6.8        |      |             |      |              |      |              |      |               |      |

Real Estate performance reported on a quarterly basis. NCREIF Property is available 25 days after quarter end. Real Estate values are preliminary as of 09/30/2017.



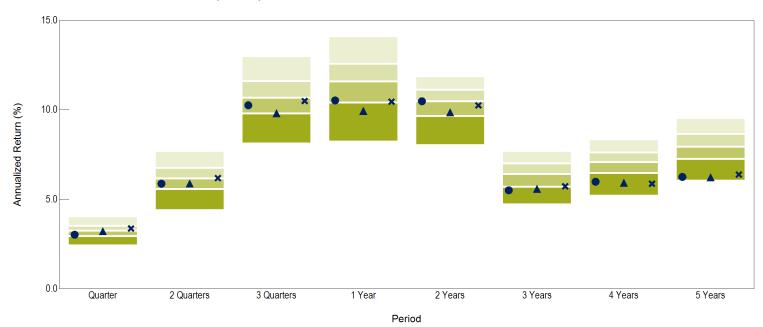
### Total Fund Performance Detail - Net

|                                                  | Market Value<br>(\$) | % of<br>Portfolio | Policy % | 3 Mo<br>(%) | Rank | Fiscal<br>YTD<br>(%) | Rank | YTD<br>(%) | Rank | 1 Yr<br>(%) | Rank | 3 Yrs<br>(%) | Rank | 5 Yrs<br>(%) | Rank | 10 Yrs<br>(%) | Rank |
|--------------------------------------------------|----------------------|-------------------|----------|-------------|------|----------------------|------|------------|------|-------------|------|--------------|------|--------------|------|---------------|------|
| Total Absolute Return                            | 40,198,787           | 6.3               | 8.0      | 2.0         | 53   | 2.0                  | 53   | 1.8        | 89   | 4.0         | 77   | 0.9          | 81   | 4.3          | 69   |               |      |
| HFRI Fund of Funds Composite<br>Index            |                      |                   |          | 2.3         | 46   | 2.3                  | 46   | 5.6        | 48   | 6.5         | 51   | 2.2          | 60   | 3.8          | 73   | 1.1           | 90   |
| eV Alt Fund of Funds - Multi-<br>Strategy Median |                      |                   |          | 2.1         |      | 2.1                  |      | 5.3        |      | 6.5         |      | 2.6          |      | 5.3          |      | 3.0           |      |
| Grosvenor                                        | 16,513,812           | 2.6               | 3.0      | 1.7         | 63   | 1.7                  | 63   | 3.9        | 63   | 6.2         | 53   | 2.3          | 59   | 5.4          | 49   |               |      |
| Allianz Structured Alpha                         | 10,438,953           | 1.6               | 2.0      | 1.3         | 74   | 1.3                  | 74   | 3.6        | 70   | 5.1         | 64   | 7.8          | 7    | 6.2          | 33   |               |      |
| 91 Day T-Bills                                   |                      |                   |          | 0.3         | 96   | 0.3                  | 96   | 0.6        | 96   | 0.7         | 96   | 0.3          | 88   | 0.2          | 99   | 0.4           | 96   |
| eV Alt Fund of Funds - Multi-<br>Strategy Median |                      |                   |          | 2.1         |      | 2.1                  |      | 5.3        |      | 6.5         |      | 2.6          |      | 5.3          |      | 3.0           |      |
| Pinnacle Natural Resources, L.P.                 | 13,188,579           | 2.1               | 3.0      | 2.9         |      | 2.9                  |      | -8.4       |      | -5.3        |      |              |      |              |      |               |      |
| Bloomberg Commodity Index                        |                      |                   |          | 2.5         |      | 2.5                  |      | -2.9       |      | -0.3        |      | -10.4        |      | -10.5        |      | -6.8          |      |
| GAM                                              | 57,443               | 0.0               | 0.0      |             |      |                      |      |            |      |             |      |              |      |              |      |               |      |
| Total Private Equity                             | 9,137,345            | 1.4               | 1.5      | 0.0         |      | 0.0                  |      | 6.9        |      | 9.2         |      | 13.5         |      |              |      |               |      |
| Cambridge Associates US All PE                   |                      |                   |          | 0.0         |      | 0.0                  |      | 7.6        |      | 12.4        |      | 9.0          |      | 12.4         |      | 9.2           |      |

Absolute Return composite formerly shown as Hedge Funds composite. As of 04/01/2016, Absolute Return includes Allianz Structured Alpha. Allianz Structured Alpha was included Diversified Fixed income composite prior to 04/01/2016. Harbourvest values based on final market values for Q2 and cash adjusted through Q3.



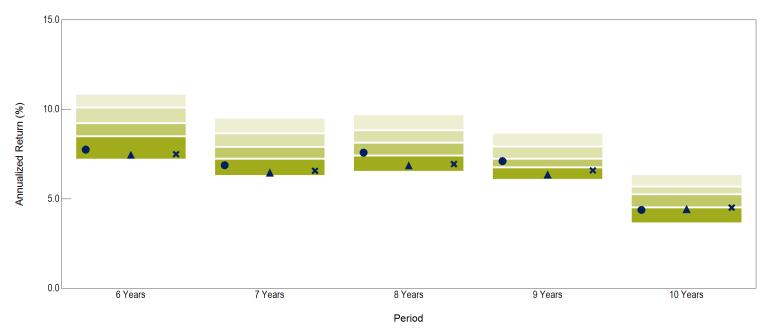
### Total Fund Return Summary vs. Peer Universe - Net



Total Municipal Composite vs. InvestorForce Public DB Net

|                                               | Return (Rank) |          |           |           |           |          |          |          |
|-----------------------------------------------|---------------|----------|-----------|-----------|-----------|----------|----------|----------|
| 5th Percentile                                | 4.0           | 7.7      | 13.0      | 14.1      | 11.9      | 7.7      | 8.3      | 9.5      |
| 25th Percentile                               | 3.5           | 6.8      | 11.6      | 12.6      | 11.1      | 7.0      | 7.6      | 8.7      |
| Median                                        | 3.3           | 6.2      | 10.7      | 11.6      | 10.5      | 6.4      | 7.1      | 8.0      |
| 75th Percentile                               | 3.0           | 5.6      | 9.8       | 10.4      | 9.7       | 5.7      | 6.5      | 7.3      |
| 95th Percentile                               | 2.4           | 4.4      | 8.1       | 8.2       | 8.0       | 4.7      | 5.2      | 6.1      |
| # of Portfolios                               | 264           | 264      | 264       | 263       | 258       | 252      | 234      | 227      |
| <ul> <li>Total Municipal Composite</li> </ul> | 3.0 (70)      | 5.9 (63) | 10.3 (63) | 10.5 (73) | 10.5 (51) | 5.5 (80) | 6.0 (86) | 6.2 (92) |
| Policy Index                                  | 3.2 (54)      | 5.9 (62) | 9.8 (75)  | 9.9 (85)  | 9.9 (70)  | 5.6 (79) | 5.9 (88) | 6.2 (92) |
| × Allocation Index                            | 3.4 (40)      | 6.2 (50) | 10.5 (56) | 10.5 (75) | 10.2 (56) | 5.7 (75) | 5.9 (88) | 6.4 (90) |

### Total Fund Return Summary vs. Peer Universe - Net

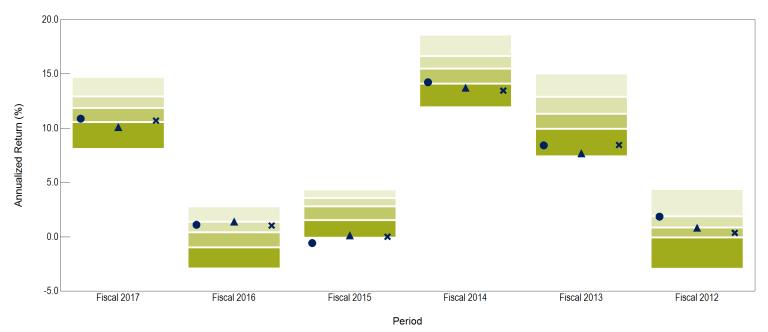


Total Municipal Composite vs. InvestorForce Public DB Net

|                                               | Return (Rank) |          |      |     |      |     |      |     |      |
|-----------------------------------------------|---------------|----------|------|-----|------|-----|------|-----|------|
| 5th Percentile                                | 10.9          | 9.5      |      | 9.7 |      | 8.7 |      | 6.4 |      |
| 25th Percentile                               | 10.1          | 8.7      |      | 8.8 |      | 7.9 |      | 5.7 |      |
| Median                                        | 9.2           | 7.9      |      | 8.1 |      | 7.2 |      | 5.3 |      |
| 75th Percentile                               | 8.5           | 7.2      |      | 7.4 |      | 6.8 |      | 4.5 |      |
| 95th Percentile                               | 7.2           | 6.3      |      | 6.5 |      | 6.1 |      | 3.6 |      |
| # of Portfolios                               | 211           | 200      |      | 190 |      | 183 |      | 180 |      |
| <ul> <li>Total Municipal Composite</li> </ul> | 7.7           | (89) 6.9 | (86) | 7.6 | (71) | 7.1 | (60) | 4.4 | (82) |
| Policy Index                                  | 7.5           | (95) 6.5 | (94) | 6.9 | (93) | 6.4 | (90) | 4.4 | (81) |
| × Allocation Index                            | 7.5           | (95) 6.6 | (94) | 6.9 | (92) | 6.6 | (84) | 4.5 | (77) |



### Total Fund Return Summary vs. Peer Universe - Net

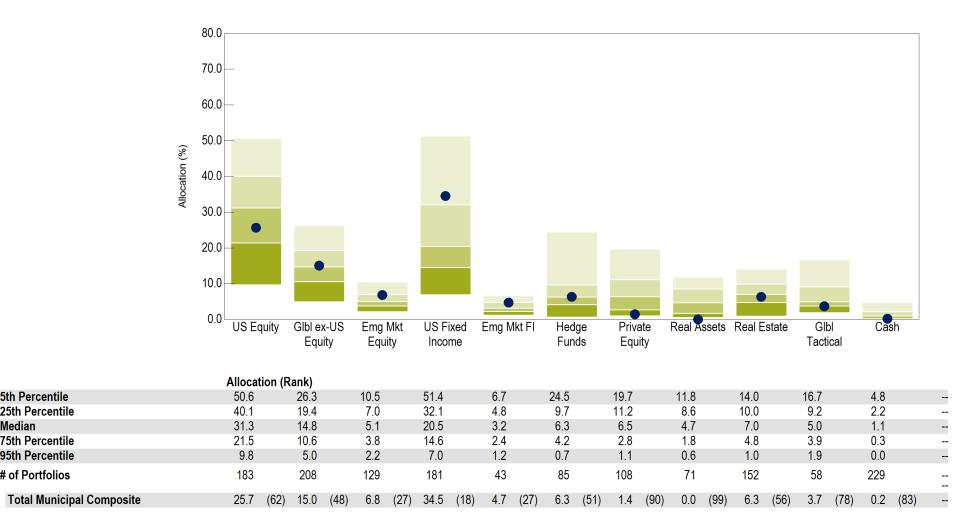


#### Total Municipal Composite vs. InvestorForce Public DB Net

|                                               | Return (Rank) |          |           |           |          |          |      |
|-----------------------------------------------|---------------|----------|-----------|-----------|----------|----------|------|
| 5th Percentile                                | 14.7          | 2.8      | 4.4       | 18.6      | 15.0     | 4.4      |      |
| 25th Percentile                               | 12.9          | 1.4      | 3.6       | 16.7      | 12.9     | 1.9      |      |
| Median                                        | 11.9          | 0.4      | 2.8       | 15.5      | 11.3     | 0.9      |      |
| 75th Percentile                               | 10.6          | -0.9     | 1.6       | 14.1      | 9.9      | 0.0      |      |
| 95th Percentile                               | 8.1           | -2.9     | -0.1      | 11.9      | 7.4      | -2.9     |      |
| # of Portfolios                               | 282           | 258      | 231       | 173       | 192      | 147      |      |
| <ul> <li>Total Municipal Composite</li> </ul> | 10.9          | (67) 1.1 | (33) -0.6 | (97) 14.2 | (72) 8.4 | (92) 1.9 | (26) |
| Policy Index                                  | 10.1          | (82) 1.4 | (25) 0.1  | (94) 13.7 | (84) 7.7 | (94) 0.8 | (52) |
| × Allocation Index                            | 10.7          | (73) 1.0 | (33) 0.0  | (95) 13.5 | (89) 8.5 | (92) 0.4 | (66) |



#### Total Fund Allocation vs. Peer Universe - Net



Total Plan Allocation vs. InvestorForce Public DB Net As of September 30, 2017



**5th Percentile** 

Median

25th Percentile

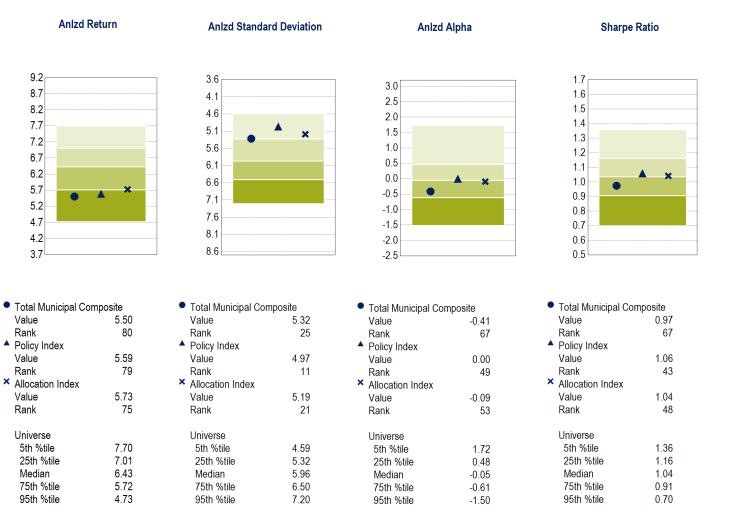
75th Percentile

95th Percentile

# of Portfolios

#### Total Fund Risk Statistics vs. Peer Universe - Net

#### Municipal Composite vs. IFx Public DB Net 3 Years





#### Total Fund Risk Statistics vs. Peer Universe - Net

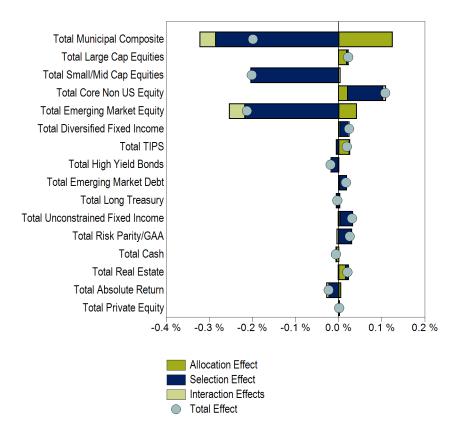
#### Municipal Composite vs. IFx Public DB Net 5 Years





#### Total Fund Attribution Analysis - Net

## Attribution Effects Relative to Policy Index 3 Months Ending September 30, 2017



|                                     |                                       | Attributio           | on Summa         | ry                  |                      |                        |                  |
|-------------------------------------|---------------------------------------|----------------------|------------------|---------------------|----------------------|------------------------|------------------|
|                                     |                                       | ths Ending           | Septembe         | er 30, 2017         |                      |                        |                  |
|                                     | Wtd. <sub>W</sub><br>Actual<br>Return | /td. Index<br>Return | Excess<br>Return | Selection<br>Effect | Allocation<br>Effect | Interaction<br>Effects | Total<br>Effects |
| Total Large Cap Equities            | 4.3%                                  | 4.3%                 | 0.0%             | 0.0%                | 0.0%                 | 0.0%                   | 0.0%             |
| Total Small/Mid Cap<br>Equities     | 1.3%                                  | 4.9%                 | -3.6%            | -0.2%               | 0.0%                 | 0.0%                   | -0.2%            |
| Total Core Non US Equity            | 6.3%                                  | 5.7%                 | 0.6%             | 0.1%                | 0.0%                 | 0.0%                   | 0.1%             |
| Total Emerging Market<br>Equity     | 4.2%                                  | 7.9%                 | -3.7%            | -0.2%               | 0.0%                 | 0.0%                   | -0.2%            |
| Total Diversified Fixed<br>Income   | 1.0%                                  | 0.8%                 | 0.2%             | 0.0%                | 0.0%                 | 0.0%                   | 0.0%             |
| Total TIPS                          | 0.8%                                  | 0.9%                 | -0.1%            | 0.0%                | 0.0%                 | 0.0%                   | 0.0%             |
| Total High Yield Bonds              | 1.6%                                  | 2.0%                 | -0.3%            | 0.0%                | 0.0%                 | 0.0%                   | 0.0%             |
| Total Emerging Market<br>Debt       | 2.7%                                  | 2.4%                 | 0.3%             | 0.0%                | 0.0%                 | 0.0%                   | 0.0%             |
| Total Long Treasury                 | 0.5%                                  | 0.8%                 | -0.3%            | 0.0%                | 0.0%                 | 0.0%                   | 0.0%             |
| Total Unconstrained Fixed<br>Income | 1.3%                                  | 0.8%                 | 0.5%             | 0.0%                | 0.0%                 | 0.0%                   | 0.0%             |
| Total Risk Parity/GAA               | 4.3%                                  | 3.6%                 | 0.7%             | 0.0%                | 0.0%                 | 0.0%                   | 0.0%             |
| Total Cash                          | 0.0%                                  | 0.3%                 | -0.3%            | 0.0%                | 0.0%                 | 0.0%                   | 0.0%             |
| Total Real Estate                   | 1.8%                                  | 1.7%                 | 0.1%             | 0.0%                | 0.0%                 | 0.0%                   | 0.0%             |
| Total Absolute Return               | 2.0%                                  | 2.3%                 | -0.3%            | 0.0%                | 0.0%                 | 0.0%                   | 0.0%             |
| Total Private Equity                | 0.0%                                  | 0.0%                 | 0.0%             | 0.0%                | 0.0%                 | 0.0%                   | 0.0%             |
| Total                               | 3.0%                                  | 3.2%                 | -0.2%            | -0.3%               | 0.1%                 | 0.0%                   | -0.2%            |

Note: Plan attribution calculations are returns based and the results shown reflect the composites shown. As a result, the total returns shown may vary from the calculated returns shown on the performance report.

The target return shown for each composite is a custom index, based on aggregated policy indices. This policy index asset weights the underlying policy indices of each option in the plan and the respective benchmark.

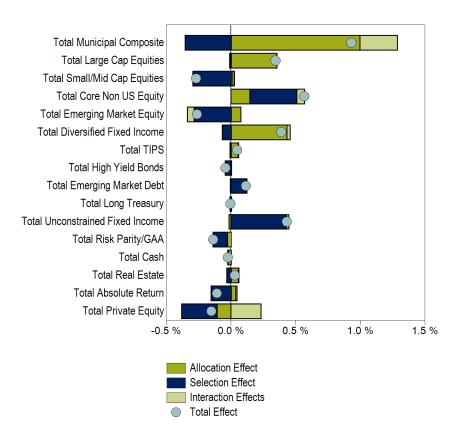
The allocation, selection, and interaction effects are calculated using the custom index described above along with the policy or target weight of each composite. May not add up due to rounding.

Absolute Return's Wtd. index Return is calculated using a weighting of the respective benchmarks for each underlying strategy part of the composite.



#### Total Fund Attribution Analysis - Net

#### Attribution Effects Relative to Policy Index 1 Year Ending September 30, 2017



|                                     |                          | ear Ending S         | on Summa<br>September | -                   |                      |                        |                  |
|-------------------------------------|--------------------------|----------------------|-----------------------|---------------------|----------------------|------------------------|------------------|
|                                     | Wtd.<br>Actual<br>Return | Wtd. Index<br>Return | Excess<br>Return      | Selection<br>Effect | Allocation<br>Effect | Interaction<br>Effects | Total<br>Effects |
| Total Large Cap Equities            | 18.0%                    | 18.0%                | -0.1%                 | 0.0%                | 0.4%                 | 0.0%                   | 0.3%             |
| Total Small/Mid Cap<br>Equities     | 13.8%                    | 19.1%                | -5.3%                 | -0.3%               | 0.0%                 | 0.0%                   | -0.3%            |
| Total Core Non US Equity            | 22.9%                    | 19.4%                | 3.5%                  | 0.4%                | 0.1%                 | 0.1%                   | 0.6%             |
| Total Emerging Market<br>Equity     | 17.1%                    | 22.5%                | -5.3%                 | -0.3%               | 0.1%                 | 0.0%                   | -0.3%            |
| Total Diversified Fixed<br>Income   | -0.2%                    | 0.1%                 | -0.3%                 | -0.1%               | 0.4%                 | 0.0%                   | 0.4%             |
| Total TIPS                          | -0.8%                    | -0.7%                | -0.1%                 | 0.0%                | 0.1%                 | 0.0%                   | 0.0%             |
| Total High Yield Bonds              | 8.1%                     | 8.9%                 | -0.8%                 | 0.0%                | 0.0%                 | 0.0%                   | 0.0%             |
| Total Emerging Market<br>Debt       | 6.5%                     | 4.2%                 | 2.3%                  | 0.1%                | 0.0%                 | 0.0%                   | 0.1%             |
| Total Long Treasury                 |                          |                      |                       | 0.0%                | 0.0%                 | 0.0%                   | 0.0%             |
| Total Unconstrained Fixed<br>Income | 6.9%                     | 0.1%                 | 6.8%                  | 0.4%                | 0.0%                 | 0.0%                   | 0.4%             |
| Total Risk Parity/GAA               | 7.5%                     | 9.4%                 | -2.0%                 | -0.1%               | 0.0%                 | 0.0%                   | -0.1%            |
| Total Cash                          | 0.0%                     | 0.7%                 | -0.7%                 | 0.0%                | 0.0%                 | 0.0%                   | 0.0%             |
| Total Real Estate                   | 6.4%                     | 6.9%                 | -0.5%                 | 0.0%                | 0.1%                 | 0.0%                   | 0.0%             |
| Total Absolute Return               | 4.0%                     | 5.6%                 | -1.7%                 | -0.2%               | 0.0%                 | 0.0%                   | -0.1%            |
| Total Private Equity                | 9.2%                     | 12.4%                | -3.2%                 | -0.3%               | -0.1%                | 0.2%                   | -0.2%            |
| Total                               | 10.6%                    | 9.8%                 | 0.8%                  | -0.4%               | 1.0%                 | 0.3%                   | 0.9%             |

Note: Plan attribution calculations are returns based and the results shown reflect the composites shown. As a result, the total returns shown may vary from the calculated returns shown on the performance report.

The target return shown for each composite is a custom index, based on aggregated policy indices. This policy index asset weights the underlying policy indices of each option in the plan and the respective benchmark.

The allocation, selection, and interaction effects are calculated using the custom index described above along with the policy or target weight of each composite. May not add up due to rounding.

Absolute Return's Wtd. index Return is calculated using a weighting of the respective benchmarks for each underlying strategy part of the composite.



Asset Allocation Effect - Measures VPIC's ability to effectively allocate their portfolio's assets to various asset classes. The allocation effect determines whether the overweighting or underweighting of asset classes relative to a benchmark contributes positively or negatively to the overall portfolio return. Positive allocation occurs when the portfolio is overweighted in an asset class that outperforms the benchmark. Negative allocation occurs when the portfolio is overweighted in an asset class that outperforms the benchmark.

Selection Effect - Measures VPIC's ability to select managers within a given asset class relative to a benchmark. The over or underperformance of the portfolio is weighted by the benchmark weight, therefore, selection is not affected by VPIC's allocation to the asset class. The weight of the manager in the portfolio determines the size of the effect -- the larger the manager, the larger the effect is, positive or negative.

Interaction Effect - The interaction effect measures the combined impact of VPIC's manager selection and manager allocation decisions within an asset class. For example, if VPIC had superior manager selection and overweighted that particular asset class, the interaction effect is positive. If VPIC had superior manager selection, but underweighted that asset class, the interaction effect is negative. In this case, VPIC did not take advantage of the superior manager selection by allocating more assets to that asset class.



### Risk Statistics - 3 Years

|                                         | % of Tot | Anlzd Ret | Rank | Anlzd Std<br>Dev | Rank | Anlzd AJ | Rank | Sharpe<br>Ratio | Rank | Sortino<br>Ratio RF | Rank | Tracking<br>Error | Rank |
|-----------------------------------------|----------|-----------|------|------------------|------|----------|------|-----------------|------|---------------------|------|-------------------|------|
| Total Municipal Composite               | 100.00%  | 5.50%     | 80   | 5.32%            | 25   | -0.39%   | 66   | 0.97            | 67   | 1.58                | 32   | 0.84%             | 31   |
| Policy Index                            |          | 5.59%     | 79   | 4.97%            | 11   | 0.00%    | 49   | 1.06            | 43   | 1.78                | 16   | 0.00%             | 1    |
| Total Domestic Equity                   | 25.65%   | 10.98%    | 35   | 10.33%           | 27   | 0.25%    | 36   | 1.03            | 21   | 1.50                | 35   | 1.40%             | 2    |
| Russell 3000                            |          | 10.74%    | 38   | 10.24%           | 25   | 0.00%    | 40   | 1.02            | 22   | 1.46                | 39   | 0.00%             | 1    |
| Total Large Cap Equities                | 20.23%   | 10.63%    | 28   | 10.14%           | 36   | -0.23%   | 34   | 1.02            | 25   | 1.56                | 30   | 0.68%             | 1    |
| S&P 500                                 |          | 10.81%    | 25   | 10.07%           | 34   | 0.00%    | 30   | 1.04            | 21   | 1.58                | 29   | 0.00%             | 1    |
| Total Small/Mid Cap Equities            | 5.43%    | 11.25%    | 27   | 11.97%           | 42   | 1.48%    | 31   | 0.91            | 26   | 1.61                | 19   | 4.32%             | 5    |
| Russell 2000                            |          | 12.18%    | 18   | 14.48%           | 89   | 0.00%    | 58   | 0.82            | 41   | 1.28                | 42   | 0.00%             | 1    |
| Total Core Non US Equity                | 15.05%   | 7.33%     | 40   | 11.42%           | 38   | 2.67%    | 40   | 0.61            | 38   | 1.04                | 32   | 1.97%             | 7    |
| MSCI EAFE                               |          | 5.04%     | 75   | 12.27%           | 78   | 0.00%    | 78   | 0.38            | 78   | 0.62                | 78   | 0.00%             | 1    |
| Total Emerging Market Equity            | 6.83%    | 4.31%     | 69   | 14.70%           | 51   | -0.04%   | 62   | 0.27            | 66   | 0.52                | 57   | 5.36%             | 63   |
| MSCI Emerging Markets                   |          | 4.90%     | 59   | 15.73%           | 79   | 0.00%    | 62   | 0.29            | 62   | 0.53                | 54   | 0.00%             | 1    |
| Total Fixed Income                      | 34.53%   | 4.15%     | 28   | 3.06%            | 64   | 1.81%    | 25   | 1.25            | 22   | 1.82                | 26   | 1.93%             | 43   |
| BBgBarc US Aggregate TR                 |          | 2.71%     | 54   | 2.85%            | 58   | 0.00%    | 76   | 0.84            | 64   | 1.11                | 69   | 0.00%             | 1    |
| Total Diversified Fixed Income          | 12.10%   | 4.21%     | 28   | 3.95%            | 77   | 0.68%    | 44   | 0.98            | 47   | 1.26                | 57   | 1.39%             | 28   |
| BBgBarc US Aggregate TR                 |          | 2.71%     | 54   | 2.85%            | 58   | 0.00%    | 76   | 0.84            | 64   | 1.11                | 69   | 0.00%             | 1    |
| Total High Yield Bonds                  | 4.99%    | 5.05%     | 50   | 4.86%            | 47   | 0.22%    | 56   | 0.97            | 54   | 1.65                | 56   | 1.46%             | 26   |
| BBgBarc US High Yield TR                |          | 5.83%     | 26   | 5.81%            | 83   | 0.00%    | 62   | 0.95            | 60   | 1.85                | 46   | 0.00%             | 1    |
| Total TIPS                              | 5.21%    | 1.56%     | 28   | 3.65%            | 66   | -0.08%   | 31   | 0.34            | 28   | 0.74                | 25   | 0.18%             | 5    |
| BBgBarc US TIPS TR                      |          | 1.62%     | 25   | 3.58%            | 60   | 0.00%    | 22   | 0.36            | 21   | 0.79                | 20   | 0.00%             | 1    |
| Total Emerging Market Debt              | 4.71%    | 6.67%     | 10   | 5.91%            | 27   | 0.71%    | 11   | 1.08            | 11   | 1.63                | 8    | 1.31%             | 7    |
| JP Morgan EMBI Global Index             |          | 6.05%     | 19   | 5.85%            | 25   | 0.00%    | 24   | 0.98            | 19   | 1.39                | 25   | 0.00%             | 1    |
| Total Real Estate                       | 6.31%    | 8.66%     |      | 3.67%            |      | 0.18%    |      | 2.27            |      | 87.21               |      | 1.00%             |      |
| NCREIF Property Index                   |          | 9.83%     |      | 4.17%            |      | 0.00%    |      | 2.28            |      | 99.41               |      | 0.00%             |      |
| Total Absolute Return                   | 6.32%    | 0.86%     | 81   | 3.14%            | 22   | -1.02%   | 74   | 0.17            | 77   | 0.20                | 79   | 1.68%             | 7    |
| HFRI Fund of Funds Composite Index      |          | 2.23%     | 60   | 3.32%            | 26   | 0.00%    | 61   | 0.57            | 50   | 0.65                | 57   | 0.00%             | 1    |
| Total Risk Parity/GAA                   | 3.69%    | 2.85%     | 58   | 7.04%            | 58   | -1.38%   | 67   | 0.36            | 72   | 0.59                | 64   | 4.49%             | 40   |
| 60% MSCI World (Net) / 40%<br>CITI WGBI | -        | 5.09%     | 28   | 6.75%            | 57   | 0.00%    | 40   | 0.71            | 31   | 1.35                | 4    | 0.00%             | 1    |



### Risk Statistics - 5 Years

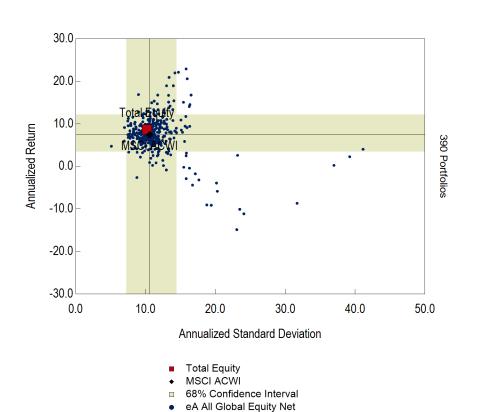
|                                         | % of Tot | Anlzd Ret | Rank | Anlzd Std<br>Dev | Rank | Anlzd AJ | Rank | Sharpe<br>Ratio | Rank | Sortino<br>Ratio RF | Rank | Tracking<br>Error | Rank |
|-----------------------------------------|----------|-----------|------|------------------|------|----------|------|-----------------|------|---------------------|------|-------------------|------|
| Total Municipal Composite               | 100.00%  | 6.25%     | 92   | 5.49%            | 32   | -0.49%   | 72   | 1.10            | 89   | 1.89                | 77   | 0.85%             | 31   |
| Policy Index                            |          | 6.23%     | 92   | 5.01%            | 12   | 0.00%    | 49   | 1.20            | 75   | 2.13                | 55   | 0.00%             | 1    |
| Total Domestic Equity                   | 25.65%   |           |      |                  |      |          |      |                 |      |                     |      |                   |      |
| Russell 3000                            |          | 14.22%    | 38   | 9.80%            | 18   | 0.00%    | 31   | 1.43            | 13   | 2.45                | 19   | 0.00%             | 1    |
| Total Large Cap Equities                | 20.23%   | 14.48%    | 26   | 9.66%            | 28   | 0.12%    | 26   | 1.48            | 12   | 2.65                | 13   | 0.71%             | 1    |
| S&P 500                                 |          | 14.22%    | 32   | 9.55%            | 25   | 0.00%    | 28   | 1.47            | 12   | 2.53                | 19   | 0.00%             | 1    |
| Total Small/Mid Cap Equities            | 5.43%    | 13.93%    | 38   | 11.91%           | 44   | 2.51%    | 44   | 1.15            | 38   | 2.28                | 17   | 3.79%             | 3    |
| Russell 2000                            |          | 13.79%    | 39   | 14.00%           | 90   | 0.00%    | 84   | 0.97            | 73   | 1.61                | 66   | 0.00%             | 1    |
| Total Core Non US Equity                | 15.05%   | 10.00%    | 37   | 11.21%           | 41   | 2.11%    | 40   | 0.87            | 37   | 1.61                | 26   | 2.09%             | 9    |
| MSCI EAFE                               |          | 8.38%     | 69   | 11.73%           | 71   | 0.00%    | 76   | 0.70            | 74   | 1.21                | 70   | 0.00%             | 1    |
| Total Emerging Market Equity            | 6.83%    | 3.25%     | 88   | 14.26%           | 63   | -0.49%   | 85   | 0.21            | 86   | 0.36                | 84   | 4.89%             | 53   |
| MSCI Emerging Markets                   |          | 3.99%     | 77   | 14.40%           | 70   | 0.00%    | 80   | 0.26            | 79   | 0.44                | 74   | 0.00%             | 1    |
| Total Fixed Income                      | 34.53%   |           |      |                  |      |          |      |                 |      |                     |      |                   |      |
| BBgBarc US Aggregate TR                 |          | 2.06%     | 59   | 2.84%            | 54   | 0.00%    | 79   | 0.65            | 74   | 0.91                | 69   | 0.00%             | 1    |
| Total Diversified Fixed Income          | 12.10%   | 3.24%     | 38   | 4.24%            | 78   | 0.36%    | 60   | 0.72            | 67   | 1.00                | 62   | 1.65%             | 37   |
| BBgBarc US Aggregate TR                 |          | 2.06%     | 59   | 2.84%            | 54   | 0.00%    | 79   | 0.65            | 74   | 0.91                | 69   | 0.00%             | 1    |
| Total High Yield Bonds                  | 4.99%    | 5.93%     | 40   | 4.34%            | 29   | 0.74%    | 37   | 1.32            | 36   | 2.04                | 47   | 1.38%             | 37   |
| BBgBarc US High Yield TR                |          | 6.36%     | 26   | 5.24%            | 76   | 0.00%    | 63   | 1.18            | 58   | 2.09                | 43   | 0.00%             | 1    |
| Total TIPS                              | 5.21%    | -0.06%    | 53   | 4.51%            | 69   | -0.08%   | 54   | -0.06           | 55   | -0.08               | 55   | 0.16%             | 1    |
| BBgBarc US TIPS TR                      |          | 0.02%     | 47   | 4.47%            | 59   | 0.00%    | 41   | -0.04           | 41   | -0.05               | 41   | 0.00%             | 1    |
| Total Emerging Market Debt              | 4.71%    | 5.03%     | 17   | 6.48%            | 31   | 0.87%    | 19   | 0.74            | 18   | 1.01                | 20   | 1.26%             | 8    |
| JP Morgan EMBI Global Index             |          | 4.32%     | 31   | 6.62%            | 33   | 0.00%    | 34   | 0.62            | 31   | 0.85                | 34   | 0.00%             | 1    |
| Total Real Estate                       | 6.31%    | 10.37%    |      | 4.43%            |      | 0.06%    |      | 2.29            |      | 123.37              |      | 1.28%             |      |
| NCREIF Property Index                   |          | 10.35%    |      | 4.26%            |      | 0.00%    |      | 2.38            |      | 123.09              |      | 0.00%             |      |
| Total Absolute Return                   | 6.32%    | 4.28%     | 69   | 3.50%            | 32   | 0.62%    | 61   | 1.16            | 50   | 1.75                | 46   | 1.65%             | 7    |
| HFRI Fund of Funds Composite Index      |          | 3.84%     | 73   | 3.25%            | 27   | 0.00%    | 68   | 1.12            | 53   | 1.47                | 57   | 0.00%             | 1    |
| Total Risk Parity/GAA                   | 3.69%    | 3.80%     | 64   | 7.16%            | 61   | -2.00%   | 85   | 0.50            | 79   | 0.74                | 79   | 4.05%             | 42   |
| 60% MSCI World (Net) / 40%<br>CITI WGBI |          | 6.42%     | 26   | 6.60%            | 52   | 0.00%    | 46   | 0.94            | 17   | 1.95                | 5    | 0.00%             | 1    |



# **Manager Characteristics**



# Total Equity Composite



### Annualized Return vs. Annualized Standard Deviation 3 Years Ending September 30, 2017

U.S. Effective Style Map 3 Years Ending September 30, 2017



First Rolling Period

Last Rolling Period



# Total Equity Composite

### Characteristics

|                                 | Portfolio | MSCI ACWI |
|---------------------------------|-----------|-----------|
| Number of Holdings              | 2,786     | 2,491     |
| Weighted Avg. Market Cap. (\$B) | 84.22     | 111.18    |
| Median Market Cap. (\$B)        | 10.62     | 10.03     |
| Price To Earnings               | 24.04     | 22.98     |
| Price To Book                   | 4.44      | 3.66      |
| Price To Sales                  | 3.21      | 2.87      |
| Return on Equity (%)            | 18.87     | 16.34     |
| Yield (%)                       | 2.00      | 2.35      |
| Beta                            | 0.96      | 1.00      |
| R-Squared                       | 0.98      | 1.00      |

### Market Capitalization As of September 30, 2017



#### 5.4 Energy 6.4 5.2 Materials 5.3 9.7 Industrials 10.8 12.2 Cons. Disc. 11.9 10.0 Cons. Staples 8.8 9.9 Health Care 11.2 18.9 Financials 18.7 18.0 Info. Tech 17.5 3.7 Telecomm 3.2 2.0 Utilities 3.1 3.8 Real Estate 3.1 Unclassified 0.0 0.0 5.0 10.0 15.0 20.0 25.0 Total Equity MSCI ACWI

### Sector Allocation (%) vs MSCI ACWI



# Total Equity Composite

| Top Ten Holdings         |      |
|--------------------------|------|
| SAMSUNG ELECTRONICS      | 1.7% |
| BANK CENTRAL ASIA        | 1.5% |
| ASTRA INTERNATIONAL      | 1.5% |
| TELEKOMUNIKASI INDONESIA | 1.4% |
| APPLE                    | 1.4% |
| SAMSUNG ELTN.PREF.       | 1.1% |
| BANK RAKYAT INDONESIA    | 1.0% |
| MICROSOFT                | 1.0% |
| TAIWAN SEMICON.MNFG.     | 0.8% |
| CASH - USD               | 0.8% |
|                          |      |

|   | Top Positive Cor            | tributors      |          | Top Negative C                  |
|---|-----------------------------|----------------|----------|---------------------------------|
|   |                             | Relative       |          |                                 |
| % |                             | Contribution % | Return % |                                 |
| % | BNC.BRADESCO PF.SPN.ADR 1:1 | 0.1%           | 31.4%    | ASTRA INTERNATIONAL             |
| % | BANK CENTRAL ASIA           | 0.1%           | 10.7%    | TENCENT HOLDINGS                |
| % | LOJAS RENNER ON             | 0.1%           | 38.2%    | ITC                             |
| % | SAMSUNG ELTN.PREF.          | 0.1%           | 10.6%    | ALIBABA GROUP HLDG.SPN. ADR 1:1 |
| % | SAMSUNG ELECTRONICS         | 0.1%           | 7.8%     | MATAHARI DEPARTMENT SOE.        |
| % | HOUSING DEVELOPMENT FIN.    | 0.0%           | 7.7%     | APPLE                           |
| % | STMICROELECTRONICS (PAR)    | 0.0%           | 35.3%    | INTEL                           |
| % | MAGNIT                      | 0.0%           | 14.5%    | NAVER                           |
| % | NEXT                        | 0.0%           | 46.5%    | ROYAL DUTCH SHELL A(LON)        |
|   | ROYAL DUTCH SHELL A         | 0.0%           | 15.9%    | BAIDU 'A' ADR 10:1              |

### **Equity Sector Attribution**

|                            |         | Attribution Effects |            |             | Returns   |           |           | Sector Weights |  |  |
|----------------------------|---------|---------------------|------------|-------------|-----------|-----------|-----------|----------------|--|--|
|                            | Total   | Selection           | Allocation | Interaction |           |           |           |                |  |  |
|                            | Effects | Effect              | Effect     | Effects     | Portfolio | Benchmark | Portfolio | Benchmark      |  |  |
| Energy                     | -0.1%   | 0.0%                | 0.0%       | 0.0%        | 9.0%      | 9.7%      | 5.9%      | 6.1%           |  |  |
| Materials                  | -0.1%   | 0.0%                | 0.0%       | -0.1%       | 6.9%      | 9.1%      | 4.9%      | 4.8%           |  |  |
| Industrials                | -0.2%   | -0.2%               | 0.0%       | 0.0%        | 3.1%      | 5.3%      | 11.1%     | 10.8%          |  |  |
| Consumer Discretionary     | -0.3%   | -0.3%               | 0.0%       | 0.0%        | 0.9%      | 3.7%      | 11.7%     | 12.1%          |  |  |
| Consumer Staples           | -0.1%   | 0.0%                | 0.0%       | 0.0%        | -0.1%     | 0.0%      | 10.0%     | 9.2%           |  |  |
| Health Care                | 0.1%    | 0.1%                | 0.0%       | 0.0%        | 3.1%      | 2.6%      | 10.7%     | 11.6%          |  |  |
| Financials                 | 0.0%    | 0.2%                | 0.0%       | -0.2%       | 5.7%      | 5.7%      | 18.7%     | 18.8%          |  |  |
| Information Technology     | -0.3%   | -0.3%               | 0.0%       | 0.0%        | 7.1%      | 8.9%      | 16.4%     | 17.0%          |  |  |
| Telecommunication Services | -0.1%   | 0.0%                | 0.0%       | 0.0%        | 2.2%      | 3.9%      | 4.1%      | 3.2%           |  |  |
| Utilities                  | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 2.1%      | 3.4%      | 2.6%      | 3.1%           |  |  |
| Real Estate                | -0.1%   | -0.1%               | 0.0%       | 0.0%        | 1.7%      | 3.6%      | 3.7%      | 3.2%           |  |  |
| Cash                       | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 0.3%      |           | 0.3%      | 0.0%           |  |  |
| Portfolio                  | -1.2%   | = -0.7%             | + -0.1%    | + -0.5%     | 4.1%      | 5.3%      | 100.0%    | 100.0%         |  |  |



### **Top Negative Contributors**

Relative Contribution

> % -0.2%

> -0.1%

-0.1%

-0.1%

-0.1%

-0.1% 0.0%

0.0%

0.0%

0.0%

Return %

-12.4%

20.4%

-21.0%

22.6%

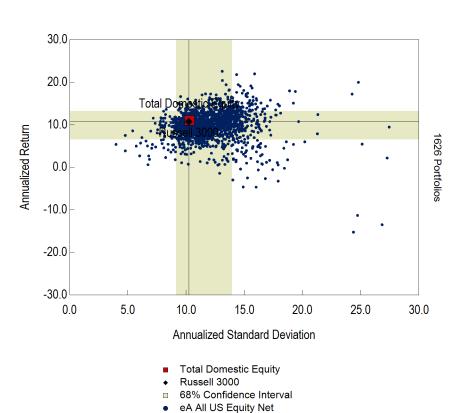
-35.3% 7.4%

13.7%

-11.2%

16.0% 38.5%

# Domestic Equity Composite



### Annualized Return vs. Annualized Standard Deviation 3 Years Ending September 30, 2017

U.S. Effective Style Map 3 Years Ending September 30, 2017



First Rolling Period

Last Rolling Period

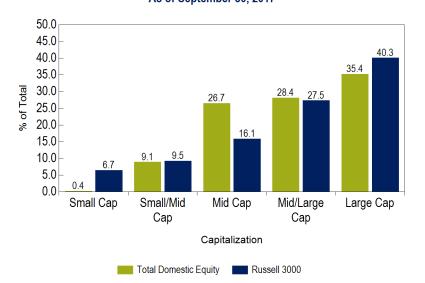


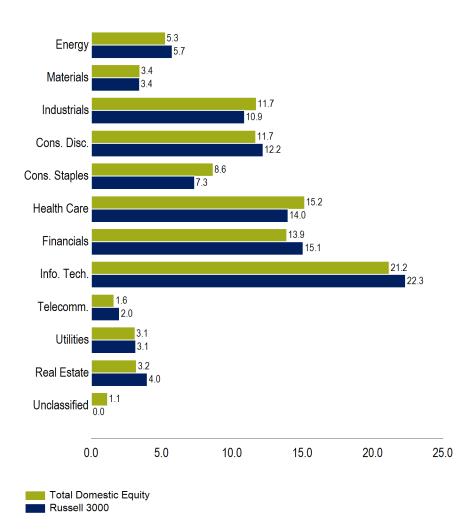
# Domestic Equity Composite

### Characteristics

|                                 | Portfolio | Russell 3000 |
|---------------------------------|-----------|--------------|
| Number of Holdings              | 537       | 2,981        |
| Weighted Avg. Market Cap. (\$B) | 120.29    | 135.88       |
| Median Market Cap. (\$B)        | 19.67     | 1.65         |
| Price To Earnings               | 26.63     | 25.07        |
| Price To Book                   | 5.31      | 4.39         |
| Price To Sales                  | 3.61      | 3.58         |
| Return on Equity (%)            | 20.05     | 17.19        |
| Yield (%)                       | 1.80      | 1.83         |
| Beta                            | 1.00      | 1.00         |
| R-Squared                       | 0.98      | 1.00         |

### Market Capitalization As of September 30, 2017





### Sector Allocation (%) vs Russell 3000

# Domestic Equity Composite

| Top Ten Holdings       |      |          |
|------------------------|------|----------|
| APPLE                  | 2.5% |          |
| MICROSOFT              | 1.8% | BNC.BRA  |
| FACEBOOK CLASS A       | 1.3% | BANK CE  |
| AMAZON.COM             | 1.2% | LOJAS R  |
| CASH - USD             | 1.1% | SAMSUN   |
| BERKSHIRE HATHAWAY 'B' | 1.1% | SAMSUN   |
| JOHNSON & JOHNSON      | 1.1% | GENERA   |
| EXXON MOBIL            | 1.1% | ALTRIA G |
| JP MORGAN CHASE & CO.  | 1.1% | STMICRO  |
| ALPHABET 'A'           | 0.9% | HOUSING  |

|      | Top Positive Co             | ntributors     |          | Top Negative Co        | ontributors       |          |
|------|-----------------------------|----------------|----------|------------------------|-------------------|----------|
|      |                             | Relative       |          |                        | Relative          |          |
| 2.5% |                             | Contribution % | Return % |                        | Contribution<br>% | Return % |
| 1.8% | BNC.BRADESCO PF.SPN.ADR 1:1 | 0.1%           | 31.4%    | APPLE                  | -0.2%             | 7.4%     |
| 1.3% | BANK CENTRAL ASIA           | 0.1%           | 10.7%    | ASTRA INTERNATIONAL    | -0.1%             | -12.4%   |
| 1.2% | LOJAS RENNER ON             | 0.1%           | 38.2%    | FACEBOOK CLASS A       | -0.1%             | 13.2%    |
| 1.1% | SAMSUNG ELTN.PREF.          | 0.1%           | 10.6%    | MICROSOFT              | -0.1%             | 8.6%     |
| 1.1% | SAMSUNG ELECTRONICS         | 0.1%           | 7.8%     | BOEING                 | -0.1%             | 29.3%    |
| 1.1% | GENERAL ELECTRIC            | 0.1%           | -9.6%    | INTEL                  | -0.1%             | 13.7%    |
| 1.1% | ALTRIA GROUP                | 0.1%           | -13.9%   | ITC                    | -0.1%             | -21.0%   |
| 1.1% | STMICROELECTRONICS (PAR)    | 0.0%           | 35.3%    | BERKSHIRE HATHAWAY 'B' | -0.1%             | 8.2%     |
| 0.9% | HOUSING DEVELOPMENT FIN.    | 0.0%           | 7.7%     | CHEVRON                | -0.1%             | 13.8%    |
|      | NEXT                        | 0.0%           | 46.5%    | ABBVIE                 | -0.1%             | 23.6%    |

## **Equity Sector Attribution**

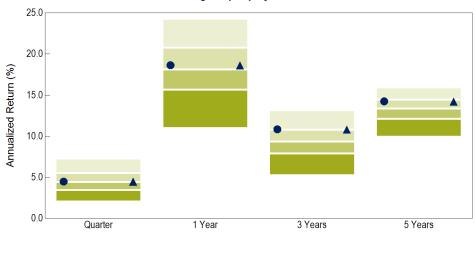
|                            |         | Attribution Effects |            | •           | R         | eturns    | Sect      | Sector Weights |  |
|----------------------------|---------|---------------------|------------|-------------|-----------|-----------|-----------|----------------|--|
|                            | Total   | Selection           | Allocation | Interaction |           |           |           |                |  |
|                            | Effects | Effect              | Effect     | Effects     | Portfolio | Benchmark | Portfolio | Benchmark      |  |
| Energy                     | 0.1%    | 0.0%                | 0.0%       | 0.1%        | 9.0%      | 6.8%      | 5.9%      | 5.7%           |  |
| Materials                  | 0.1%    | 0.0%                | 0.0%       | 0.0%        | 6.9%      | 5.3%      | 4.9%      | 2.8%           |  |
| Industrials                | -0.2%   | -0.3%               | 0.0%       | 0.1%        | 3.1%      | 5.1%      | 11.1%     | 10.9%          |  |
| Consumer Discretionary     | 0.0%    | -0.1%               | 0.0%       | 0.1%        | 0.9%      | 1.3%      | 11.7%     | 12.7%          |  |
| Consumer Staples           | 0.0%    | 0.1%                | -0.1%      | 0.1%        | -0.1%     | -1.2%     | 10.0%     | 7.8%           |  |
| Health Care                | 0.0%    | -0.1%               | 0.0%       | 0.1%        | 3.1%      | 3.7%      | 10.7%     | 14.1%          |  |
| Financials                 | 0.1%    | 0.0%                | 0.0%       | 0.0%        | 5.7%      | 5.2%      | 18.6%     | 15.1%          |  |
| Information Technology     | -0.4%   | -0.3%               | -0.2%      | 0.1%        | 7.1%      | 8.4%      | 16.3%     | 21.7%          |  |
| Telecommunication Services | -0.1%   | -0.1%               | 0.0%       | -0.1%       | 2.2%      | 6.3%      | 4.1%      | 2.0%           |  |
| Utilities                  | 0.0%    | -0.1%               | 0.0%       | 0.0%        | 2.1%      | 3.1%      | 2.6%      | 3.2%           |  |
| Real Estate                | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 1.7%      | 1.1%      | 3.6%      | 4.1%           |  |
| Cash                       | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 0.3%      |           | 0.5%      | 0.0%           |  |
| Portfolio                  | -0.5%   | = -0.8%             | + -0.2%    | + 0.5%      | 4.0%      | 4.5%      | 100.0%    | 100.0%         |  |



# SSgA S&P 500 Cap-Wgt

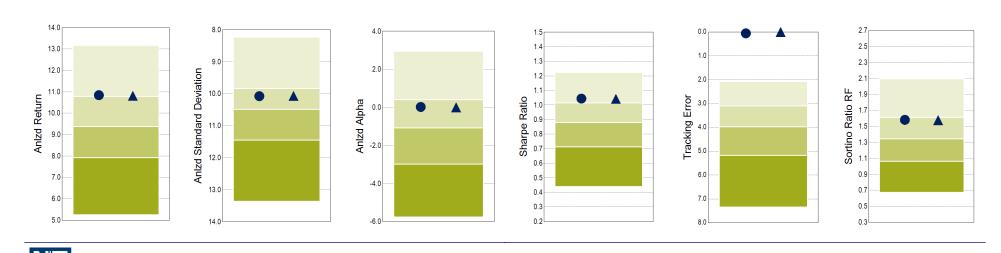
NEPC, LLC

Using a replication process, we purchase each security for the Strategy in the same capitalization weight as it appears in the S&P 500 Index. Replication results in low turnover, accurate tracking, and low costs. SSgA's internal liquidity has allowed the firm to acquire many of the benchmark constituents for free. These free trading opportunities have allowed SSgA to gradually reduce security-level misweights while avoiding the open market. This process has resulted in portfolios that look and behave like the benchmark, and do so at a very low cost. SSgA's passive equity process objective is to remain fully invested in the equity market at all times. To accomplish this, it holds a small amount of unleveraged exchange-traded S&P 500® futures contracts to maintain full exposure. SSgA tends to hold approximately 1-3% of the strategy's value in suitable CFTC approved index futures contracts. This position in futures also allows the firm to accommodate cash flows into and out of the portfolio on a daily basis and to equitize dividend receivables to achieve closer tracking.



eA US Large Cap Equity Net Accounts

● SSgA S&P 500 Cap-Wgt ▲ S&P 500



#### **3 Year Risk Statistics**

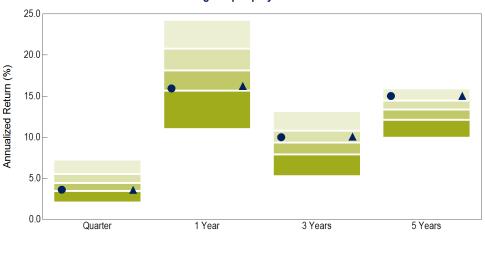
# SSgA S&P 500 Cap-Wgt

|                                 | Top Positive Contributors |         |                               |                   |          |                        | Top Negative Contributors |          |  |  |
|---------------------------------|---------------------------|---------|-------------------------------|-------------------|----------|------------------------|---------------------------|----------|--|--|
|                                 |                           |         |                               | Relative          |          |                        | Relative                  |          |  |  |
| Characteristics                 | Portfolio                 | S&P 500 |                               | Contribution<br>% | Return % |                        | Contribution<br>%         | Return % |  |  |
| Number of Holdings              | 505                       | 505     | DR PEPPER SNAPPLE GROUP (DPS) | 0.0%              | -2.3%    | INTEL (INTC)           | -0.1%                     | 13.7%    |  |  |
| Weighted Avg. Market Cap. (\$B) | 163.6                     | 163.1   | ABBVIE                        | 0.0%              | 23.6%    | MICRON TECHNOLOGY (MU) | 0.0%                      | 31.7%    |  |  |
| Median Market Cap. (\$B)        | 20.7                      | 20.7    | LAM RESEARCH (LRCX)           | 0.0%              | 31.2%    | BIOGEN (BIIB)          | 0.0%                      | 15.4%    |  |  |
| Price To Earnings               | 25.1                      | 24.6    | APPLIED MATS.                 | 0.0%              | 26.4%    | BLACKROCK (BLK)        | 0.0%                      | 6.5%     |  |  |
| Price To Book                   | 5.3                       | 4.8     | ACUITY BRANDS (AYI)           | 0.0%              | -15.7%   | HALLIBURTON (HAL)      | 0.0%                      | 8.3%     |  |  |
| Price To Sales                  | 3.6                       | 3.4     | TEXAS INSTRUMENTS (TXN)       | 0.0%              | 17.2%    | CVS HEALTH (CVS)       | 0.0%                      | 1.7%     |  |  |
| Return on Equity (%)            | 21.1                      | 20.0    | CISCO SYSTEMS                 | 0.0%              | 8.4%     | ANTHEM (ANTM)          | 0.0%                      | 1.3%     |  |  |
| Yield (%)                       | 2.0                       | 2.0     | GOLDMAN SACHS GP. (GS)        | 0.0%              | 7.3%     | WELLS FARGO & CO (WFC) | 0.0%                      | 0.3%     |  |  |
| Beta                            | 1.0                       | 1.0     | CHIPOTLE MEXN.GRILL (CMG)     | 0.0%              | -26.0%   | MICROCHIP TECH. (MCHP) | 0.0%                      | 16.8%    |  |  |
| R-Squared                       | 1.0                       | 1.0     | VERIZON COMMUNICATIONS (VZ)   | 0.0%              | 12.3%    | ALTRIA GROUP (MO)      | 0.0%                      | -13.9%   |  |  |

# SSgA S&P 500 Cap-Wgt Performance Attribution vs. S&P 500

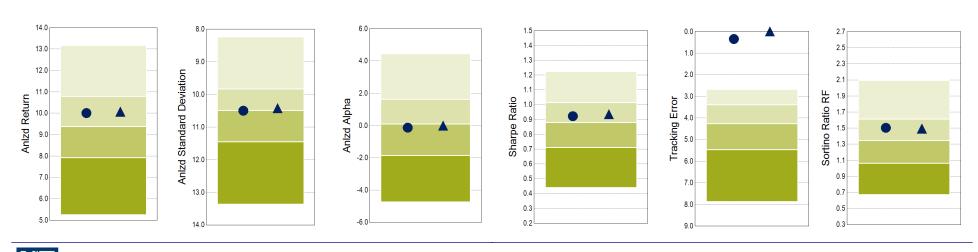
|                            |         | Attribution Effects |            |             | Retu      | 'ns       | Sector Weights |           |
|----------------------------|---------|---------------------|------------|-------------|-----------|-----------|----------------|-----------|
|                            | Total   | Selection           | Allocation | Interaction |           |           |                |           |
|                            | Effects | Effect              | Effect     | Effects     | Portfolio | Benchmark | Portfolio      | Benchmark |
| Energy                     | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 6.8%      | 6.8%      | 6.0%           | 6.1%      |
| Materials                  | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 5.0%      | 4.9%      | 2.2%           | 2.2%      |
| Industrials                | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 4.2%      | 4.2%      | 10.3%          | 10.4%     |
| Consumer Discretionary     | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 0.9%      | 0.9%      | 12.4%          | 12.4%     |
| Consumer Staples           | 0.0%    | 0.0%                | 0.0%       | 0.0%        | -1.4%     | -1.4%     | 8.8%           | 8.8%      |
| Health Care                | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 3.7%      | 3.6%      | 14.7%          | 14.7%     |
| Financials                 | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 5.3%      | 5.3%      | 14.8%          | 14.7%     |
| Information Technology     | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 8.6%      | 8.6%      | 22.5%          | 22.5%     |
| Telecommunication Services | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 6.8%      | 6.8%      | 2.2%           | 2.2%      |
| Utilities                  | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 2.9%      | 2.9%      | 3.2%           | 3.2%      |
| Real Estate                | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 1.0%      | 1.0%      | 2.9%           | 3.0%      |
| Cash                       | 0.0%    |                     |            |             |           |           | 0.0%           | 0.0%      |
| Portfolio                  | 0.0%    | = 0.0% +            | ⊦ 0.0%     | + 0.0%      | 4.5%      | 4.5%      | 100.0%         | 100.0%    |

The Strategy is managed using a "passive" or "indexing" investment approach, by which SSgA attempts to match, before expenses, the performance of the Index. SSgA will typically attempt to invest in the securities comprising the Index, in the same proportions as they are represented in the Index. In some cases, it may not be possible or practicable to purchase all of the securities comprising the Index, or to hold them in the same weightings as they represent in the Index. In those circumstances, SSqA may employ a sampling or optimization technique to construct the portfolio in question. From time to time securities are added to or removed from the Index. SSgA may sell securities that are represented in the Index, or purchase securities that are not yet represented in the Index, in anticipation of their removal from or addition to the Index. The Strategy may at times purchase or sell futures contracts on the Index, or options on those futures, or engage in other transactions involving the use of derivatives, in lieu of investment directly in the securities making up the Index or to enhance the Strategy's replication of the Index return. The Strategy's return may not match the return of the Index.



eA US Large Cap Equity Net Accounts

● SSgA S&P 500 Equal-Wgt ▲ S&P 500 Equal Weighted



#### **3 Year Risk Statistics**



# SSgA S&P 500 Equal-Wgt

|                                 |           |         | Top Positive Contri                | butors         |          | Top Negative Contributors     |                   |          |
|---------------------------------|-----------|---------|------------------------------------|----------------|----------|-------------------------------|-------------------|----------|
|                                 |           |         |                                    | Relative       |          |                               | Relative          |          |
| Characteristics                 | Portfolio | S&P 500 |                                    | Contribution % | Return % |                               | Contribution<br>% | Return % |
| Number of Holdings              | 502       | 505     | GENERAL ELECTRIC (GE)              | 0.1%           | -9.6%    | APPLE                         | -0.3%             | 7.4%     |
| Weighted Avg. Market Cap. (\$B) | 43.7      | 163.1   | NRG ENERGY                         | 0.1%           | 48.8%    | MICROSOFT                     | -0.2%             | 8.6%     |
| Median Market Cap. (\$B)        | 20.6      | 20.7    | GAP                                | 0.1%           | 34.3%    | FACEBOOK CLASS A              | -0.2%             | 13.2%    |
| Price To Earnings               | 25.5      | 24.6    | TRANSOCEAN (RIG)                   | 0.1%           | 30.7%    | BERKSHIRE HATHAWAY 'B' (BRKB) | -0.1%             | 8.2%     |
| Price To Book                   | 4.6       | 4.8     | MICHAEL KORS HOLDINGS (KORS)       | 0.1%           | 32.0%    | CHEVRON (CVX)                 | -0.1%             | 13.8%    |
| Price To Sales                  | 3.2       | 3.4     | CF INDUSTRIES HDG.                 | 0.0%           | 27.0%    | BOEING (BA)                   | -0.1%             | 29.3%    |
| Return on Equity (%)            | 19.2      | 20.0    | SCRIPPS NETWORKS INTACT. 'A' (SNI) | 0.0%           | 26.2%    | VERIZON COMMUNICATIONS        | -0.1%             | 12.3%    |
| Yield (%)                       | 1.9       | 2.0     | MEDTRONIC (MDT)                    | 0.0%           | -11.4%   | ABBVIE                        | -0.1%             | 23.6%    |
| Beta                            | 1.0       | 1.0     | ALBEMARLE (ALB)                    | 0.0%           | 29.5%    | VISA 'A' (V)                  | -0.1%             | 12.4%    |
| R-Squared                       | 0.9       | 1.0     | HUNT JB TRANSPORT SVS. (JBHT)      | 0.0%           | 21.9%    | INTEL (INTC)                  | -0.1%             | 13.7%    |

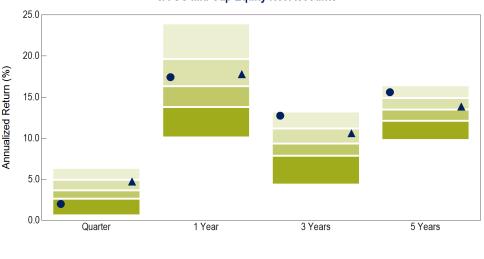
# SSgA S&P 500 Equal-Wgt Performance Attribution vs. S&P 500

|                            |         | Attribution Effects |            | R           | eturns    | Secto     | Sector Weights |           |
|----------------------------|---------|---------------------|------------|-------------|-----------|-----------|----------------|-----------|
|                            | Total   | Selection           | Allocation | Interaction |           |           |                |           |
|                            | Effects | Effect              | Effect     | Effects     | Portfolio | Benchmark | Portfolio      | Benchmark |
| Energy                     | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 6.5%      | 6.8%      | 6.3%           | 6.1%      |
| Materials                  | 0.2%    | 0.0%                | 0.1%       | 0.0%        | 6.4%      | 4.9%      | 4.9%           | 2.2%      |
| Industrials                | 0.2%    | 0.0%                | 0.1%       | 0.0%        | 4.5%      | 4.2%      | 13.2%          | 10.4%     |
| Consumer Discretionary     | 0.1%    | 0.0%                | 0.0%       | 0.0%        | 1.0%      | 0.9%      | 16.2%          | 12.4%     |
| Consumer Staples           | 0.1%    | 0.1%                | 0.0%       | 0.0%        | -0.7%     | -1.4%     | 6.3%           | 8.8%      |
| Health Care                | -0.4%   | -0.4%               | -0.1%      | 0.1%        | 0.7%      | 3.6%      | 12.4%          | 14.7%     |
| Financials                 | -0.1%   | 0.0%                | 0.0%       | 0.0%        | 5.0%      | 5.3%      | 13.8%          | 14.7%     |
| Information Technology     | -0.8%   | 0.0%                | -0.8%      | 0.0%        | 8.6%      | 8.6%      | 13.3%          | 22.5%     |
| Telecommunication Services | -0.2%   | -0.2%               | -0.1%      | 0.1%        | -2.7%     | 6.8%      | 0.8%           | 2.2%      |
| Utilities                  | 0.1%    | 0.0%                | 0.1%       | 0.0%        | 3.5%      | 2.9%      | 5.5%           | 3.2%      |
| Real Estate                | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 0.8%      | 1.0%      | 6.2%           | 3.0%      |
| Cash                       | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 0.3%      | -         | 1.1%           | 0.0%      |
| Portfolio                  | -0.9%   | = -0.6%             | + -0.6%    | + 0.3%      | 3.6%      | 4.5%      | 100.0%         | 100.0%    |

# Champlain

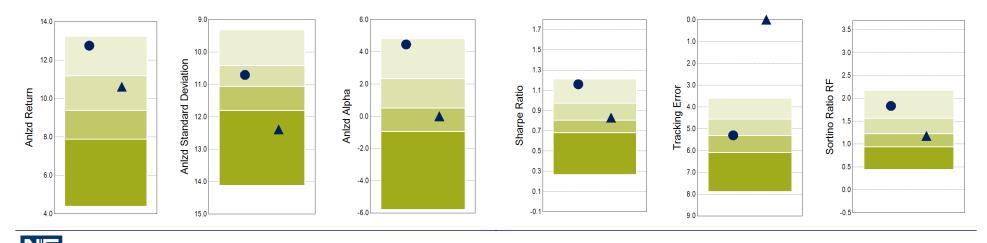
NEPC, LLC

Champlain employs a fundamental, bottom-up approach to investing in equity assets. They believe that superior companies purchased at attractive valuations have the highest probability to wealth creation. Champlain seeks strong businesses with credible and sincere management and aims to buy shares of their stock at discounts to fair or intrinsic value. Portfolio construction applies sector weight guidelines and position size rules to manage risk. The portfolio will have some exposure to at least seven out of the eight largest sectors of the S&P 400, with a maximum weighting on 25% in any one sector. Individual positions will not represent more than 2% of the respective companies' outstanding shares and are limited to no more than 5% of assets under management. The portfolio typically holds 50-75 securities with average position sizes of 2%. The strategy's minimum market cap is \$1.5 billion at purchase and a maximum market cap of \$15 billion. In general, no more than 10% of portfolio in stocks with a market cap below \$2B and no more than 5% of portfolio in companies with market cap above \$20B.



eA US Mid Cap Equity Net Accounts

Champlain 🔺 Russell 2500



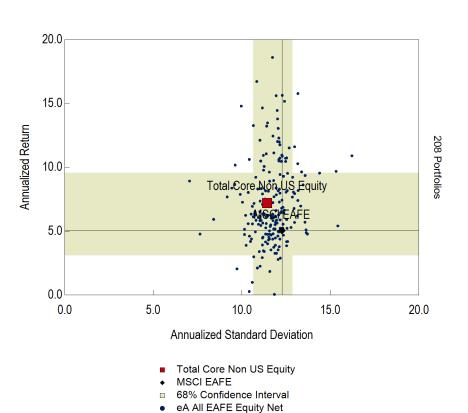
# Champlain

|                                 |           |                 | Top Positive Cont            | Top Positive Contributors Top Negative Contributor |          |                          |                |          |
|---------------------------------|-----------|-----------------|------------------------------|----------------------------------------------------|----------|--------------------------|----------------|----------|
| Characteristics                 |           |                 |                              | Relative                                           |          |                          | Relative       |          |
|                                 | Portfolio | Russell<br>2500 |                              | Contributio<br>n %                                 | Return % |                          | Contribution % | Return % |
| Number of Holdings              | 57        | 2,491           | ALIGN TECHNOLOGY (ALGN)      | 0.6%                                               | 24.1%    | NUVASIVE                 | -0.5%          | -27.9%   |
| Weighted Avg. Market Cap. (\$B) | 9.8       | 4.7             | RED HAT (RHT)                | 0.4%                                               | 15.8%    | TREEHOUSE FOODS (THS)    | -0.4%          | -17.1%   |
| Median Market Cap. (\$B)        | 7.8       | 1.2             | TABLEAU SOFTWARE CL.A (DATA) | 0.4%                                               | 22.2%    | WABTEC (WAB)             | -0.3%          | -17.1%   |
| Price To Earnings               | 37.5      | 25.9            | DOVER (DOV)                  | 0.3%                                               | 14.6%    | ADV.AUTO PARTS (AAP)     | -0.2%          | -14.9%   |
| Price To Book                   | 6.2       | 3.5             | SPLUNK (SPLK)                | 0.3%                                               | 16.8%    | J M SMUCKER (SJM)        | -0.2%          | -10.8%   |
| Price To Sales                  | 4.0       | 3.1             | ROCKWELL AUTOMATION (ROK)    | 0.2%                                               | 10.5%    | DENTSPLY SIRONA (XRAY)   | -0.2%          | -7.6%    |
| Return on Equity (%)            | 15.5      | 12.4            | FLOWERS FOODS                | 0.2%                                               | 9.7%     | INTEGRA LFSC.HDG. (IART) | -0.2%          | -7.4%    |
| Yield (%)                       | 0.9       | 1.3             | SNYDERS LANCE                | 0.2%                                               | 10.6%    | HENRY SCHEIN (HSIC)      | -0.2%          | -10.4%   |
| Beta                            | 0.8       | 1.0             | STERIS (STE)                 | 0.2%                                               | 8.9%     | NORTHERN TRUST           | -0.1%          | -5.0%    |
| R-Squared                       | 0.8       | 1.0             | GUIDEWIRE SOFTWARE           | 0.2%                                               | 13.3%    | HORMEL FOODS             | -0.1%          | -5.3%    |

# Champlain Performance Attribution vs. Russell 2500

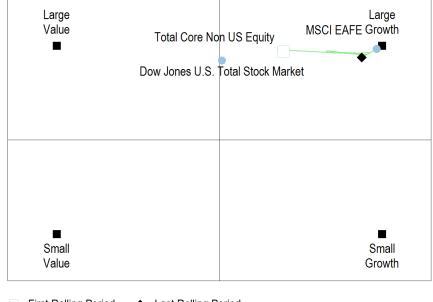
|                            |         |           | Attribution Effects |             |           | eturns    | Secto     | Sector Weights |  |
|----------------------------|---------|-----------|---------------------|-------------|-----------|-----------|-----------|----------------|--|
|                            | Total   | Selection | Allocation          | Interaction |           |           |           |                |  |
|                            | Effects | Effect    | Effect              | Effects     | Portfolio | Benchmark | Portfolio | Benchmark      |  |
| Energy                     | -0.3%   | -0.4%     | -0.2%               | 0.3%        | -3.2%     | 6.2%      | 1.4%      | 4.3%           |  |
| Materials                  | -0.3%   | -0.3%     | -0.1%               | 0.1%        | 0.7%      | 5.9%      | 3.7%      | 5.8%           |  |
| Industrials                | -0.6%   | -0.6%     | 0.1%                | -0.1%       | 3.4%      | 7.4%      | 17.4%     | 15.7%          |  |
| Consumer Discretionary     | -0.8%   | -1.2%     | -0.3%               | 0.7%        | -5.5%     | 3.8%      | 5.3%      | 12.6%          |  |
| Consumer Staples           | -0.3%   | -0.1%     | 0.1%                | -0.3%       | -1.9%     | 0.5%      | 13.8%     | 2.9%           |  |
| Health Care                | -0.5%   | -0.4%     | 0.5%                | -0.5%       | -0.2%     | 3.5%      | 25.7%     | 11.9%          |  |
| Financials                 | -0.5%   | -0.4%     | -0.2%               | 0.1%        | 2.2%      | 4.4%      | 11.2%     | 16.6%          |  |
| Information Technology     | 1.1%    | 0.5%      | 0.3%                | 0.2%        | 9.3%      | 6.0%      | 21.7%     | 16.1%          |  |
| Telecommunication Services | 0.0%    |           | 0.0%                |             |           | 3.0%      | 0.0%      | 0.6%           |  |
| Utilities                  | -0.2%   |           | -0.2%               |             |           | 5.1%      | 0.0%      | 3.8%           |  |
| Real Estate                | -0.1%   |           | -0.1%               |             |           | 1.3%      | 0.0%      | 9.7%           |  |
| Cash                       | 0.0%    |           |                     |             |           |           | 0.0%      | 0.0%           |  |
| Portfolio                  | -2.5%   | = -2.8%   | + -0.2%             | + 0.5%      | 2.2%      | 4.7%      | 100.0%    | 100.0%         |  |

# Int'l Equity Composite



### Annualized Return vs. Annualized Standard Deviation 3 Years Ending September 30, 2017

U.S. Effective Style Map 3 Years Ending September 30, 2017



First Rolling Period

Last Rolling Period

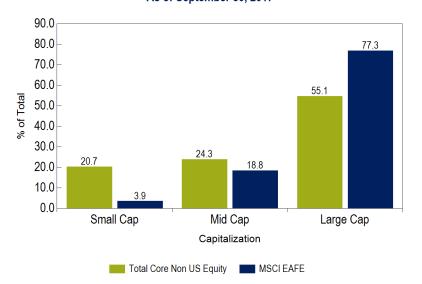


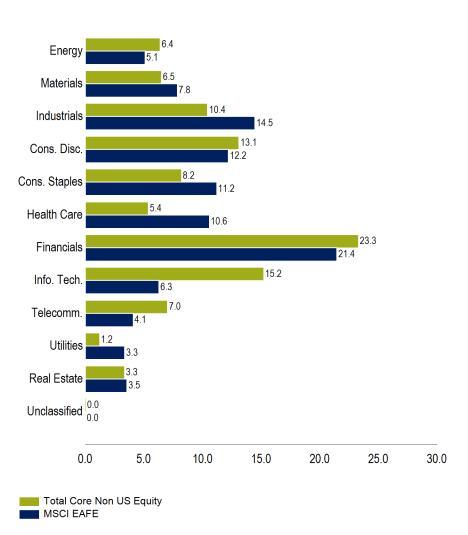
# Int'l Equity Composite

### Characteristics

|                                 | Portfolio | MSCI EAFE |
|---------------------------------|-----------|-----------|
| Number of Holdings              | 2,232     | 926       |
| Weighted Avg. Market Cap. (\$B) | 40.35     | 58.65     |
| Median Market Cap. (\$B)        | 6.91      | 10.85     |
| Price To Earnings               | 19.45     | 20.94     |
| Price To Book                   | 2.96      | 2.61      |
| Price To Sales                  | 2.27      | 2.10      |
| Return on Equity (%)            | 16.77     | 13.57     |
| Yield (%)                       | 2.15      | 2.97      |
| Beta                            | 0.92      | 1.00      |
| R-Squared                       | 0.98      | 1.00      |







### Sector Allocation (%) vs MSCI EAFE

NE PL NEPC, LLC

# Int'l Equity Composite

| Top Ten Holdings         |    |
|--------------------------|----|
| SAMSUNG ELECTRONICS      | 6. |
| TELEKOMUNIKASI INDONESIA | 5. |
| BANK CENTRAL ASIA        | 4. |
| BANK RAKYAT INDONESIA    | 3. |
| ASTRA INTERNATIONAL      | 3. |
| BANK MANDIRI             | 2. |
| UNILEVER INDONESIA       | 1. |
| BANK NEGARA INDONESIA    | 1. |
| UNITED TRACTORS          | 1. |
| ROYAL DUTCH SHELL A      | 1. |

|      | Top Positive Co          | ntributors     |          | Top Negative Contributors |                   |          |  |  |
|------|--------------------------|----------------|----------|---------------------------|-------------------|----------|--|--|
|      |                          | Relative       |          |                           | Relative          |          |  |  |
| 6.4% |                          | Contribution % | Return % |                           | Contribution<br>% | Return % |  |  |
| 5.3% | SAMSUNG ELECTRONICS      | 0.3%           | 7.8%     | ASTRA INTERNATIONAL       | -0.3%             | -12.4%   |  |  |
| 4.5% | BANK CENTRAL ASIA        | 0.3%           | 10.7%    | MATAHARI DEPARTMENT SOE.  | -0.2%             | -35.3%   |  |  |
| 3.8% | STMICROELECTRONICS (PAR) | 0.1%           | 35.3%    | ROYAL DUTCH SHELL A(LON)  | -0.1%             | 16.0%    |  |  |
| 3.6% | SK HYNIX                 | 0.1%           | 22.9%    | PERUSAHAAN GAS NEGARA     | -0.1%             | -30.7%   |  |  |
| 2.8% | NEXT                     | 0.1%           | 46.5%    | ASML HOLDING              | -0.1%             | 30.9%    |  |  |
| 1.7% | ROYAL DUTCH SHELL A      | 0.1%           | 15.9%    | HSBC HDG. (ORD \$0.50)    | -0.1%             | 8.0%     |  |  |
| 1.2% | NORSK HYDRO              | 0.1%           | 31.7%    | TOYOTA MOTOR              | -0.1%             | 13.7%    |  |  |
| 1.2% | KIRIN HOLDINGS           | 0.1%           | 15.5%    | TOTAL                     | -0.1%             | 10.3%    |  |  |
| 1.2% | UNITED TRACTORS          | 0.1%           | 15.4%    | GLENCORE                  | -0.1%             | 23.9%    |  |  |
|      | TEVA PHARM.INDS.ADR 1:1  | 0.1%           | -46.7%   | GUDANG GARAM              | -0.1%             | -14.1%   |  |  |

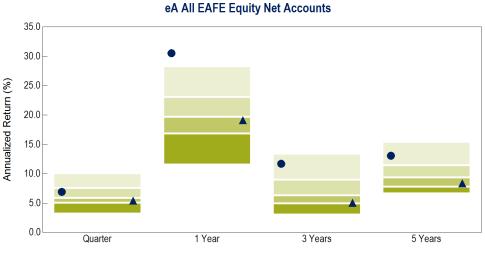
| Equity | Sector | Attribution |  |
|--------|--------|-------------|--|
|--------|--------|-------------|--|

|                            |         |           | Attribution Effects |             | Returns   |           |           | Sector Weights |  |
|----------------------------|---------|-----------|---------------------|-------------|-----------|-----------|-----------|----------------|--|
|                            | Total   | Selection | Allocation          | Interaction |           |           |           |                |  |
|                            | Effects | Effect    | Effect              | Effects     | Portfolio | Benchmark | Portfolio | Benchmark      |  |
| Energy                     | 0.3%    | 0.1%      | 0.1%                | 0.0%        | 14.6%     | 13.6%     | 6.8%      | 4.8%           |  |
| Materials                  | -0.3%   | -0.1%     | -0.1%               | -0.1%       | 9.0%      | 11.0%     | 5.0%      | 7.5%           |  |
| Industrials                | -0.5%   | -0.5%     | 0.0%                | 0.0%        | 2.2%      | 6.2%      | 11.7%     | 14.2%          |  |
| Consumer Discretionary     | -0.9%   | -0.8%     | 0.0%                | -0.2%       | -0.1%     | 7.5%      | 12.8%     | 12.1%          |  |
| Consumer Staples           | 0.0%    | 0.0%      | 0.1%                | -0.2%       | 0.0%      | 1.1%      | 9.0%      | 11.5%          |  |
| Health Care                | 0.4%    | 0.4%      | 0.1%                | -0.1%       | 4.7%      | 0.9%      | 8.8%      | 11.1%          |  |
| Financials                 | 0.0%    | 0.4%      | 0.0%                | -0.4%       | 5.3%      | 5.2%      | 19.6%     | 21.5%          |  |
| Information Technology     | 0.0%    | -0.1%     | 0.2%                | -0.1%       | 5.8%      | 8.3%      | 13.1%     | 6.0%           |  |
| Telecommunication Services | -0.1%   | 0.0%      | -0.1%               | 0.0%        | 1.1%      | 1.8%      | 7.6%      | 4.3%           |  |
| Utilities                  | -0.1%   | -0.1%     | 0.0%                | 0.0%        | 0.2%      | 4.3%      | 3.1%      | 3.4%           |  |
| Real Estate                | 0.0%    | 0.1%      | 0.0%                | -0.1%       | 3.7%      | 3.3%      | 2.5%      | 3.6%           |  |
| Cash                       | 0.0%    |           |                     |             |           |           | 0.0%      | 0.0%           |  |
| Portfolio                  | -1.4%   | = -0.5%   | + 0.3%              | + -1.2%     | 4.1%      | 5.5%      | 100.0%    | 100.0%         |  |

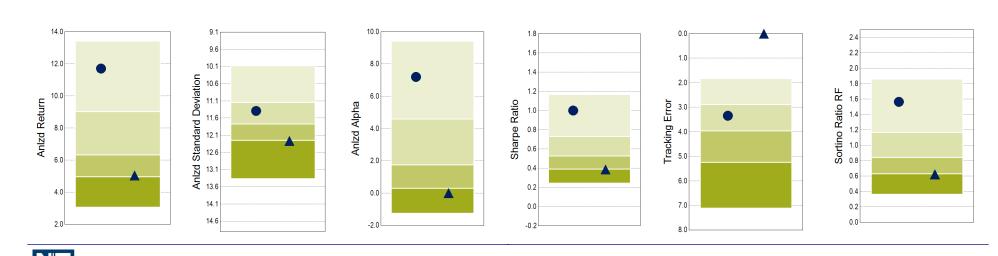
# Acadian

NEPC, LLC

Acadian believes that the larger the pool of potential investments, the greater the potential opportunity an active manager has to add value. They believe that stocks and markets have many attributes that are related to potential outperformance, and that a successful investment approach must be multi-faceted and highly adaptable. They believe that objectivity is crucial to investment success. Acadian's quantitative process and extensive database allows them to apply their valuation techniques to over 40,000 stocks worldwide. They do not limit the universe other than to employ screens based on invest-ability and availability of data. For example, they only evaluate stocks that have sufficient daily trading volume to be appropriate for institutional investment. Other than these practical considerations, they consider our investment universe to encompass all institutionally investable stocks in the world.



● Acadian ▲ MSCI EAFE



#### **3 Year Risk Statistics**

# Acadian

|                                 |           |              | Top Positive Contr               | ibutors        |          | Top Negative C           | ontributors        |          |
|---------------------------------|-----------|--------------|----------------------------------|----------------|----------|--------------------------|--------------------|----------|
| Characteristi                   | cs        |              |                                  | Relative       |          |                          | Relative           |          |
|                                 | Portfolio | MSCI<br>EAFE |                                  | Contribution % | Return % |                          | Contributio<br>n % | Return % |
| Number of Holdings              | 374       | 926          | STMICROELECTRONICS (PAR) (F:STM) | 0.5%           | 35.3%    | KT ADR 2:1               | -0.2%              | -16.6%   |
| Weighted Avg. Market Cap. (\$B) | 29.4      | 58.7         | ROYAL DUTCH SHELL A              | 0.4%           | 15.9%    | LG DISPLAY ADR 2:1       | -0.2%              | -16.5%   |
| Median Market Cap. (\$B)        | 0.7       | 10.9         | NORSK HYDRO (N:NHY)              | 0.4%           | 31.7%    | ASAHI GLASS (J:AG@N)     | -0.1%              | -11.9%   |
| Price To Earnings               | 18.5      | 20.9         | FIAT CHRYSLER AUTOS. (I:FCA)     | 0.3%           | 71.0%    | HOCHTIEF (D:HOT)         | -0.1%              | -8.1%    |
| Price To Book                   | 2.7       | 2.6          | DEUTSCHE LUFTHANSA (D:LHA)       | 0.3%           | 22.4%    | KONAMI HOLDINGS (J:KONA) | -0.1%              | -13.0%   |
| Price To Sales                  | 1.3       | 2.1          | LONZA GROUP                      | 0.3%           | 21.3%    | MIXI                     | -0.1%              | -13.3%   |
| Return on Equity (%)            | 17.1      | 13.6         | ICON                             | 0.3%           | 16.5%    | LENZING (O:LNZ)          | -0.1%              | -18.9%   |
| Yield (%)                       | 2.4       | 3.0          | PEUGEOT (F:PGT)                  | 0.3%           | 19.6%    | MERCK KGAA (D:MRK)       | -0.1%              | -7.2%    |
| Beta                            | 0.9       | 1.0          | DAITO TST.CONSTRUCTION           | 0.2%           | 18.6%    | WPP                      | -0.1%              | -11.4%   |
| R-Squared                       | 0.9       | 1.0          | JAFCO                            | 0.2%           | 26.8%    | ALMIRALL (E:LAB)         | -0.1%              | -37.4%   |

# Acadian Performance Attribution vs. MSCI EAFE

|                            |         | Attribution Effects |            |             | R         | leturns   | Secto     | Sector Weights |  |
|----------------------------|---------|---------------------|------------|-------------|-----------|-----------|-----------|----------------|--|
|                            | Total   | Selection           | Allocation | Interaction |           |           |           |                |  |
|                            | Effects | Effect              | Effect     | Effects     | Portfolio | Benchmark | Portfolio | Benchmark      |  |
| Energy                     | 0.6%    | 0.0%                | 0.4%       | 0.2%        | 14.1%     | 13.6%     | 9.1%      | 4.8%           |  |
| Materials                  | 0.1%    | 0.0%                | 0.1%       | 0.0%        | 11.0%     | 11.0%     | 8.6%      | 7.5%           |  |
| Industrials                | 0.0%    | -0.3%               | 0.2%       | 0.1%        | 4.7%      | 6.2%      | 19.2%     | 14.2%          |  |
| Consumer Discretionary     | 0.0%    | 0.0%                | 0.0%       | 0.0%        | 8.2%      | 7.5%      | 11.2%     | 12.1%          |  |
| Consumer Staples           | 0.0%    | 0.3%                | 0.1%       | -0.3%       | 4.2%      | 1.1%      | 3.8%      | 11.5%          |  |
| Health Care                | 0.8%    | 0.5%                | 0.0%       | 0.2%        | 6.2%      | 0.9%      | 13.8%     | 11.1%          |  |
| Financials                 | 0.2%    | 1.1%                | -0.2%      | -0.7%       | 9.7%      | 5.2%      | 13.4%     | 21.5%          |  |
| Information Technology     | 0.4%    | -0.1%               | 0.6%       | -0.1%       | 6.3%      | 8.3%      | 14.7%     | 6.0%           |  |
| Telecommunication Services | -0.3%   | -0.6%               | 0.0%       | 0.3%        | -15.0%    | 1.8%      | 1.4%      | 4.3%           |  |
| Utilities                  | -0.2%   | -0.2%               | 0.0%       | 0.1%        | -1.8%     | 4.3%      | 0.7%      | 3.4%           |  |
| Real Estate                | 0.3%    | 0.3%                | 0.0%       | 0.0%        | 10.0%     | 3.3%      | 4.1%      | 3.6%           |  |
| Cash                       | 0.0%    |                     |            |             |           |           | 0.0%      | 0.0%           |  |
| Portfolio                  | 2.0%    | = 1.0%              | + 1.1%     | + -0.1%     | 7.5%      | 5.5%      | 100.0%    | 100.0%         |  |

Country Allocation

|                |                      |               | Manager      | Index        |
|----------------|----------------------|---------------|--------------|--------------|
|                | Allocation (USD) All | ocation (USD) | Return (USD) | Return (USD) |
| Americas       |                      |               |              |              |
| Canada         | 4.7%                 | 0.0%          | 8.8%         | 7.9%         |
| Mexico*        | 0.3%                 | 0.0%          | -2.7%        | 1.5%         |
| Jnited States  | 0.1%                 | 0.0%          | 22.2%        | 4.3%         |
| Total-Americas | 5.1%                 | 0.0%          | 8.2%         |              |
| Europe         |                      |               |              |              |
| Austria        | 2.3%                 | 0.2%          | 1.8%         | 12.8%        |
| Belgium        | 0.5%                 | 1.1%          | -2.3%        | 9.2%         |
| Denmark        | 2.7%                 | 1.8%          | 2.3%         | 7.8%         |
| Finland        | 3.0%                 | 1.0%          | 4.7%         | 3.3%         |
| France         | 8.4%                 | 10.5%         | 15.1%        | 8.5%         |
| Germany        | 7.3%                 | 9.5%          | 5.5%         | 7.8%         |
| Greece*        | 0.2%                 | 0.0%          | 9.8%         | -12.1%       |
| reland         | 1.8%                 | 0.5%          | 16.5%        | 6.2%         |
| taly           | 3.4%                 | 2.3%          | 27.5%        | 13.9%        |
| uxembourg      | 0.2%                 | 0.0%          | 10.1%        | 5.5%         |
| Vetherlands    | 4.3%                 | 3.5%          | 13.3%        | 9.5%         |
| Vorway         | 2.1%                 | 0.6%          | 27.4%        | 19.3%        |
| Poland*        | 0.3%                 | 0.0%          | 11.9%        | 9.3%         |
| Portugal       | 0.4%                 | 0.1%          | 1.2%         | 13.4%        |
| Russia*        | 0.0%                 | 0.0%          | 20.3%        | 17.6%        |
| Spain          | 3.8%                 | 3.5%          | -5.7%        | 4.2%         |
| Sweden         | 3.5%                 | 2.9%          | 7.9%         | 5.5%         |
| Switzerland    | 4.4%                 | 8.5%          | 9.4%         | 2.0%         |
| Jnited Kingdom | 9.5%                 | 17.6%         | 5.7%         | 5.3%         |
| Fotal-Europe   | 58.0%                | 63.8%         | 9.2%         | 6.6%         |

#### **Country Allocation** Manager Manager Index Index Allocation (USD) Allocation (USD) Return (USD) Return (USD) AsiaPacific 6.4% -2.0% 3.1% Australia 7.1% 0.8% 3.5% 10.0% 5.1% Hong Kong Indonesia\* 0.0% 0.2% 0.0% 6.9% 19.8% 23.4% 2.9% 4.0% Japan Korea\* 5.2% 0.0% -0.5% 3.2% Malaysia\* 0.1% 0.0% 7.1% 0.1% New Zealand 0.2% 0.2% 5.2% 0.3% Philippines\* 0.0% 0.0% 12.5% 2.2% 6.7% 3.1% Singapore 1.3% 1.3% Taiwan\* 0.3% 0.0% -3.2% 2.8% Thailand\* 0.1% 0.0% 2.8% 2.7% 34.2% 35.5% 1.7% 3.9% Total-AsiaPacific Other

0.6%

1.3%

0.0%

1.9%

92.1%

7.9%

0.7%

0.0%

0.0%

0.7%

100.0%

0.0%

-3.3%

10.4%

22.5%

6.7%

2.5%

2.2%

-12.6%

6.8%

6.1%

5.5%

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-12.6%

NE NEPC, LLC Israel South Africa\*

Turkey\*

Totals

**Total-Other** 

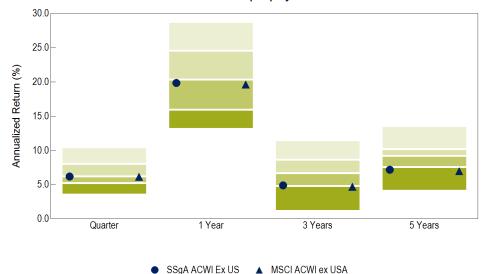
Developed

Emerging\*

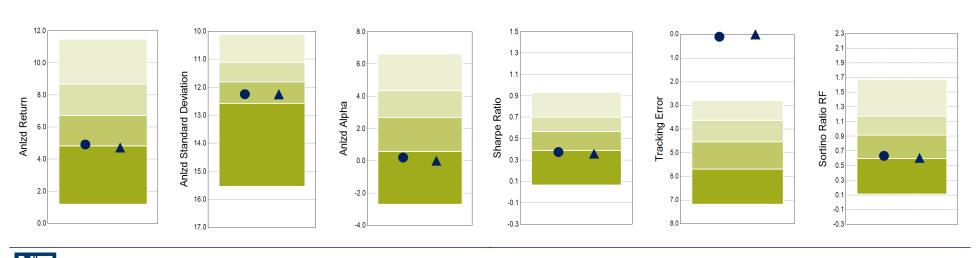
# SSgA ACWI Ex US

NEPC, LLC

The MSCI ACWI ex US Index Strategy tends to hold each security that is held in the benchmark index, but the strategy will not be perfectly weighted in every index constituent on a daily basis. Holding securities in the perfect weights would require increased trading and therefore would incur costs. Thus, there will be securities in the fund that are either over- or under-weighted relative to the benchmark. The individual security mis-weights are very minimal, usually within 1 basis point. However, in aggregate, these small mis-weights can add up and result in tracking error if the mis-weighted securities' performance is volatile. SSgA seek to replicate the index by attempting to hold every security in the fund in its appropriate index weight. SSgA trade only when there is a change to the Index, when we have participant cash flows, or when we receive significant dividend income into the fund.



#### eA ACWI ex-US All Cap Equity Net Accounts



### **3 Year Risk Statistics**



# SSgA ACWI Ex US

| Characteristics                 |           |                        | Top Positive Con             | tributors                     |          | Top Negative Contributors            |                               |  |
|---------------------------------|-----------|------------------------|------------------------------|-------------------------------|----------|--------------------------------------|-------------------------------|--|
| onaracteristics                 | Portfolio | MSCI<br>ACWI ex<br>USA |                              | Relative<br>Contribution<br>% | Return % |                                      | Relative<br>Contribution<br>% |  |
| Number of Holdings              | 1,921     | 1,859                  | BANK CENTRAL ASIA (ID:BCA)   | 0.6%                          | 10.7%    | ASTRA INTERNATIONAL (ID:ATA)         | -0.8%                         |  |
| Weighted Avg. Market Cap. (\$B) | 45.7      | 62.9                   | SAMSUNG ELECTRONICS (KO:SGL) | 0.5%                          | 7.8%     | MATAHARI DEPARTMENT SOE. (ID:MDS)    | -0.4%                         |  |
| Median Market Cap. (\$B)        | 8.1       | 8.0                    | SK HYNIX                     | 0.3%                          | 22.9%    | PERUSAHAAN GAS NEGARA                | -0.3%                         |  |
| Price To Earnings               | 19.9      | 21.1                   | UNITED TRACTORS (ID:UTR)     | 0.2%                          | 15.4%    | TENCENT HOLDINGS (K:TCNT)            | -0.2%                         |  |
| Price To Book                   | 3.1       | 2.6                    | TELEKOMUNIKASI INDONESIA     | 0.2%                          | 2.5%     | ALIBABA GROUP HLDG.SPN. ADR 1:1      | -0.2%                         |  |
| Price To Sales                  | 2.8       | 2.2                    | BANK NEGARA INDONESIA        | 0.2%                          | 10.9%    | (BABA)                               |                               |  |
|                                 |           |                        | BANK MANDIRI                 | 0.2%                          | 4.4%     | GUDANG GARAM (ID:GUD)                | -0.2%                         |  |
| Return on Equity (%)            | 16.6      | 14.6                   | LG CHEM (KO:LCM)             | 0.1%                          | 34.6%    | CHAROEN POKPHAND INDO.               | -0.1%                         |  |
| Yield (%)                       | 2.0       | 2.8                    | ADARO ENERGY TBK             | 0.1%                          | 14.3%    | MEDIA NUSNT.CITRA (ID:MNC)           | -0.1%                         |  |
| Beta                            | 1.0       | 1.0                    | SAMSUNG ELTN.PREF. (KO:SEP)  | 0.1%                          | 10.6%    | ROYAL DUTCH SHELL A(LON) (UKIR:RDSA) | -0.1%                         |  |
| R-Squared                       | 1.0       | 1.0                    |                              |                               |          | BAIDU 'A' ADR 10:1                   | -0.1%                         |  |

## SSgA ACWI Ex US Performance Attribution vs. MSCI ACWI ex USA

|                            |         |           | Attribution Effects | 5           | R         | leturns   | Secto     | or Weights |
|----------------------------|---------|-----------|---------------------|-------------|-----------|-----------|-----------|------------|
|                            | Total   | Selection | Allocation          | Interaction |           |           |           |            |
|                            | Effects | Effect    | Effect              | Effects     | Portfolio | Benchmark | Portfolio | Benchmark  |
| Energy                     | -0.2%   | 0.4%      | -0.3%               | -0.4%       | 15.6%     | 12.9%     | 3.6%      | 6.3%       |
| Materials                  | -0.4%   | -0.1%     | -0.1%               | -0.2%       | 7.2%      | 10.6%     | 5.8%      | 7.5%       |
| Industrials                | -0.7%   | -0.6%     | -0.2%               | 0.0%        | -1.2%     | 5.6%      | 6.6%      | 11.8%      |
| Consumer Discretionary     | -2.2%   | -1.7%     | 0.2%                | -0.7%       | -9.7%     | 7.0%      | 14.5%     | 11.3%      |
| Consumer Staples           | -0.7%   | -0.4%     | 0.0%                | -0.3%       | -5.3%     | 1.3%      | 11.2%     | 9.9%       |
| Health Care                | 0.0%    | 0.4%      | 0.0%                | -0.4%       | 4.4%      | 1.0%      | 3.0%      | 8.3%       |
| Financials                 | -0.4%   | 0.1%      | 0.1%                | -0.6%       | 4.1%      | 6.1%      | 26.0%     | 23.3%      |
| Information Technology     | 0.1%    | -0.1%     | 0.4%                | -0.1%       | 7.9%      | 9.9%      | 15.2%     | 10.8%      |
| Telecommunication Services | 0.1%    | 0.1%      | 0.1%                | -0.1%       | 1.9%      | 2.5%      | 9.7%      | 4.4%       |
| Utilities                  | -0.4%   | -0.5%     | 0.0%                | 0.1%        | -12.0%    | 4.6%      | 2.1%      | 3.1%       |
| Real Estate                | -0.3%   | -0.2%     | 0.0%                | 0.0%        | -3.3%     | 6.2%      | 2.3%      | 3.2%       |
| Cash                       | 0.0%    |           |                     |             |           |           | 0.0%      | 0.0%       |
| Portfolio                  | -5.1%   | = -2.5%   | + 0.1%              | + -2.6%     | 1.2%      | 6.2%      | 100.0%    | 100.0%     |

Return %

-12.4%

-35.3% -30.7%

20.4%

22.6%

-14.1%

-14.7%

-27.3%

16.0%

38.5%

# SSgA ACWI Ex US

**Country Allocation** 

|                 | Manager          | Index<br>Allocation (USD) | Manager<br>Return (USD) | Index<br>Return (USD) |
|-----------------|------------------|---------------------------|-------------------------|-----------------------|
| Americas        | Allocation (03D) | Allocation (USD)          | Retuin (00D)            | Return (00D)          |
| Brazil*         | 0.0%             | 1.6%                      | 23.0%                   | 22.9%                 |
| Canada          | 0.0%             | 6.6%                      | 8.1%                    | 8.1%                  |
| Chile*          | 1.2%             | 0.0%                      | 16.9%                   | 17.0%                 |
| Colombia*       | 2.2%             | 0.3%                      | 6.5%                    | 6.5%                  |
| Mexico*         | 0.1%             | 0.1%                      | 1.6%                    | 1.5%                  |
| Peru*           | 0.1%             | 0.9%                      | 13.8%                   |                       |
| United States   | 0.0%             | 0.1%                      | 4.3%                    | 14.1%<br>4.3%         |
| Total-Americas  |                  |                           |                         |                       |
|                 | 3.6%             | 9.5%                      | 10.0%                   | 10.2%                 |
| Europe          | 0.00/            | 0.00/                     | 10.00/                  | 10.00/                |
| Austria         | 0.0%             | 0.2%                      | 12.8%                   | 12.8%                 |
| Belgium         | 0.0%             | 0.8%                      | 9.2%                    | 9.2%                  |
| Czech Republic* | 0.0%             | 0.0%                      | 10.0%                   | 10.1%                 |
| Denmark         | 0.1%             | 1.2%                      | 7.8%                    | 7.8%                  |
| Finland         | 0.0%             | 0.7%                      | 3.3%                    | 3.3%                  |
| France          | 0.0%             | 7.3%                      | 8.6%                    | 8.5%                  |
| Germany         | 0.0%             | 6.6%                      | 7.4%                    | 7.8%                  |
| Greece*         | 0.0%             | 0.1%                      | -12.1%                  | -12.0%                |
| Hungary*        | 0.1%             | 0.1%                      | 9.6%                    | 9.6%                  |
| Ireland         | 0.0%             | 0.3%                      | 4.0%                    | 6.2%                  |
| Italy           | 0.0%             | 1.6%                      | 14.4%                   | 13.9%                 |
| Luxembourg      | 0.0%             | 0.0%                      | 5.7%                    | 6.2%                  |
| Netherlands     | 0.0%             | 2.5%                      | 11.3%                   | 9.5%                  |
| Norway          | 0.0%             | 0.4%                      | 19.3%                   | 19.3%                 |
| Poland*         | 0.0%             | 0.3%                      | 9.6%                    | 9.6%                  |
| Portugal        | 0.0%             | 0.1%                      | 13.4%                   | 13.4%                 |
| Russia*         | 0.0%             | 0.8%                      | 21.0%                   | 18.1%                 |
| Spain           | 0.0%             | 2.4%                      | 4.2%                    | 4.2%                  |
| Sweden          | 0.1%             | 2.0%                      | 5.4%                    | 5.5%                  |
| Switzerland     | 0.0%             | 5.9%                      | 2.0%                    | 2.0%                  |
| United Kingdom  | 0.1%             | 12.3%                     | 4.8%                    | 5.3%                  |
| Total-Europe    | 0.6%             | 45.7%                     | 7.8%                    | 6.7%                  |
|                 |                  |                           |                         |                       |

#### Manager Index Manager Index Allocation (USD) Allocation (USD) Return (USD) Return (USD) AsiaPacific Australia 0.0% 5.0% 3.1% 3.1% China\* 0.1% 6.6% 8.8% 14.7% Hong Kong 0.3% 2.4% 12.3% 5.1% India\* 0.9% 2.1% 3.0% 3.0% -1.1% Indonesia\* 52.1% 0.6% -1.1% 4.0% Japan 12.3% 16.3% 4.0% 29.0% 3.7% 2.5% 2.5% Korea\* 1.9% Malaysia\* 0.0% 0.6% 1.9% 0.0% 0.1% 0.2% 0.2% New Zealand Pakistan\* 0.0% 0.0% -16.4% -16.2% Philippines\* 0.1% 0.3% 3.5% 3.5% 0.0% 0.9% 2.8% 3.1% Singapore 0.6% 3.0% 1.4% Taiwan\* 1.4% Thailand\* 0.1% 0.5% 8.2% 10.6% 42.1% **Total-AsiaPacific** 95.6% 0.8% 5.2% Other 1.1% Egypt\* 0.0% 0.0% 1.1% Israel 0.0% 0.5% -6.5% -13.1% 0.0% Qatar\* 0.2% -5.0% -5.0% South Africa\* 0.1% 4.0% 1.6% 4.0% 0.0% 0.3% Turkey\* 0.3% 0.3% United Arab Emirates\* 0.2% 0.0% 3.9% 4.0% 0.2% 2.7% **Total-Other** 3.2% 0.0% Totals Developed 13.1% 76.3% 4.2% 5.7% 86.9% 23.7% 0.7% 8.0%

**Country Allocation** 



Emerging\*

# Aberdeen

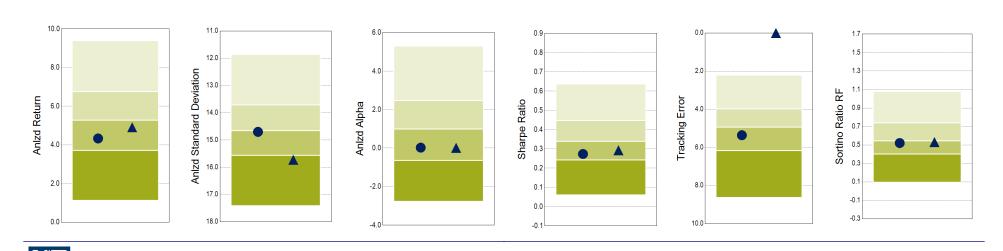
NEPC, LLC

Aberdeen believes, given the inefficiency of markets, that competitive long-term returns are achieved by identifying high quality stocks at attractive valuations and holding for the long term. It is their belief that sound fundamentals drive stock prices over time. They employ a fundamental bottom-up investment approach based upon a rigorous and disciplined proprietary research effort which originates with direct company due diligence visits. Portfolios are constructed to maximize their level of exposure to the most attractive companies filtered from the stock selection process. They run a representative or model' unconstrained portfolio that contains approximately 30 - 70 stocks at any given time. Once a stock has received unanimous approval by the team, the senior investment team members then decide which portfolio category it should enter (i.e. country, regional, Global Emerging Markets) and at what weighting. The Head of Global Emerging Markets then has responsibility to ensure that the decision is implemented.



eA Emg Mkts Equity Net Accounts

Aberdeen 
 MSCI Emerging Markets



**3 Year Risk Statistics** 

# Aberdeen

### Characteristics

|                                 | Portfolio | MSCI<br>Emerging<br>Markets |
|---------------------------------|-----------|-----------------------------|
| Number of Holdings              | 68        | 839                         |
| Weighted Avg. Market Cap. (\$B) | 41.7      | 80.6                        |
| Median Market Cap. (\$B)        | 16.2      | 5.5                         |
| Price To Earnings               | 23.9      | 21.5                        |
| Price To Book                   | 3.9       | 2.8                         |
| Price To Sales                  | 3.1       | 2.2                         |
| Return on Equity (%)            | 18.7      | 17.4                        |
| Yield (%)                       | 2.4       | 2.3                         |
| Beta                            | 0.9       | 1.0                         |
| R-Squared                       | 0.9       | 1.0                         |

| Top Positive Contributors                     |                   |          |  |  |  |
|-----------------------------------------------|-------------------|----------|--|--|--|
| Relative                                      |                   |          |  |  |  |
|                                               | Contribution<br>% | Return % |  |  |  |
| BNC.BRADESCO PF.SPN.ADR 1:1 (BBD)             | 0.8%              | 31.4%    |  |  |  |
| LOJAS RENNER ON                               | 0.6%              | 38.2%    |  |  |  |
| SAMSUNG ELTN.PREF.                            | 0.5%              | 10.6%    |  |  |  |
| MAGNIT                                        | 0.3%              | 14.5%    |  |  |  |
| HOUSING DEVELOPMENT FIN.                      | 0.3%              | 7.7%     |  |  |  |
| MULTIPLAN EMPE. IMOBS.ON (BR:MUL)             | 0.2%              | 18.1%    |  |  |  |
| PJSC LUKOIL SPON (LON) ADR<br>(UKIR:LKOD)     | 0.2%              | 13.3%    |  |  |  |
| BANCO SANTANDER-CHILE SPN.ADR<br>1:400 (BSAC) | 0.2%              | 16.9%    |  |  |  |
| GPO FINANCE BANORTE (MX:GTB)                  | 0.2%              | 8.5%     |  |  |  |
| BRF BRASIL FOODS ON (BR:DG3)                  | 0.2%              | 22.0%    |  |  |  |

### **Top Negative Contributors**

|                                               | Relative          |          |
|-----------------------------------------------|-------------------|----------|
|                                               | Contribution<br>% | Return % |
| TENCENT HOLDINGS                              | -0.9%             | 20.4%    |
| ITC                                           | -0.5%             | -21.0%   |
| ASTRA INTERNATIONAL (ID:ATA)                  | -0.4%             | -12.4%   |
| HANG LUNG GROUP (K:HLDV)                      | -0.2%             | -12.6%   |
| NAVER                                         | -0.2%             | -11.2%   |
| GRUPO AEROPORTUARIO DEL SURESTE<br>ADR 1:10   | -0.2%             | -9.3%    |
| TENARIS ADS. 1:2                              | -0.1%             | -9.1%    |
| FOM.ECO.MEXNO.SAB DE CV SPN.ADR<br>1:10 (FMX) | -0.1%             | -2.9%    |
| BANK OF THE PHILP.ISLE.                       | -0.1%             | -4.2%    |
| AMOREPACIFIC PF. (KO:APF)                     | -0.1%             | -16.2%   |

# Aberdeen Performance Attribution vs. MSCI Emerging Markets

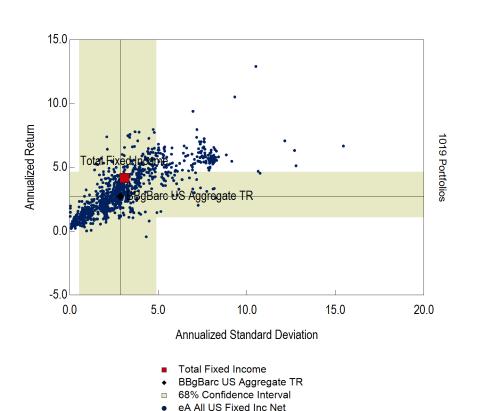
|                            |         |           | Attribution Effects |             | R         | Returns   |           | Sector Weights |  |
|----------------------------|---------|-----------|---------------------|-------------|-----------|-----------|-----------|----------------|--|
|                            | Total   | Selection | Allocation          | Interaction |           |           |           |                |  |
|                            | Effects | Effect    | Effect              | Effects     | Portfolio | Benchmark | Portfolio | Benchmark      |  |
| Energy                     | -0.7%   | -0.6%     | -0.1%               | 0.1%        | 3.9%      | 13.3%     | 5.6%      | 6.5%           |  |
| Materials                  | -0.1%   | -0.2%     | 0.2%                | -0.1%       | 6.6%      | 10.2%     | 9.1%      | 7.1%           |  |
| Industrials                | -0.3%   | -0.6%     | -0.1%               | 0.4%        | -9.3%     | 1.7%      | 1.7%      | 5.7%           |  |
| Consumer Discretionary     | 0.1%    | -0.1%     | 0.0%                | 0.1%        | 5.6%      | 5.0%      | 10.9%     | 10.5%          |  |
| Consumer Staples           | 0.2%    | -0.1%     | 0.2%                | 0.0%        | 2.0%      | 2.4%      | 17.4%     | 6.8%           |  |
| Health Care                | -0.1%   | -0.3%     | 0.0%                | 0.2%        | -4.4%     | 3.2%      | 1.2%      | 2.4%           |  |
| Financials                 | 0.2%    | 0.0%      | 0.3%                | -0.1%       | 6.9%      | 7.4%      | 28.4%     | 23.6%          |  |
| Information Technology     | -2.5%   | -2.0%     | -1.4%               | 0.9%        | 3.5%      | 11.0%     | 14.0%     | 26.8%          |  |
| Telecommunication Services | -0.1%   | -0.1%     | 0.0%                | 0.0%        | 2.1%      | 3.7%      | 5.3%      | 5.4%           |  |
| Utilities                  | -0.2%   |           | -0.1%               |             |           | 6.6%      | 0.0%      | 2.6%           |  |
| Real Estate                | -0.3%   | -0.4%     | 0.7%                | -0.5%       | 3.1%      | 17.9%     | 6.4%      | 2.6%           |  |
| Cash                       | 0.0%    |           |                     |             |           |           | 0.0%      | 0.0%           |  |
| Portfolio                  | -3.7%   | = -4.2%   | + -0.3%             | + 0.8%      | 4.3%      | 8.0%      | 100.0%    | 100.0%         |  |

| Country Allocation |                        |             |              |              |
|--------------------|------------------------|-------------|--------------|--------------|
|                    | Manager                | Index       | Manager      | Index        |
|                    | Allocation (USD) Alloc | ation (USD) | Return (USD) | Return (USD) |
| Americas           |                        |             |              |              |
| Brazil*            | 12.5%                  | 6.6%        | 21.3%        | 22.9%        |
| Chile*             | 2.2%                   | 1.1%        | 17.8%        | 17.0%        |
| Mexico*            | 8.3%                   | 3.7%        | -0.1%        | 1.5%         |
| United States      | 1.8%                   | 0.0%        | 1.4%         | 4.3%         |
| Total-Americas     | 24.7%                  | 12.2%       | 12.4%        | 15.1%        |
| Europe             |                        |             |              |              |
| Hungary*           | 1.2%                   | 0.3%        | -4.4%        | 9.6%         |
| Luxembourg         | 1.3%                   | 0.0%        | -9.1%        | 8.0%         |
| Poland*            | 0.9%                   | 1.3%        | 4.4%         | 9.6%         |
| Portugal           | 1.2%                   | 0.0%        | 1.2%         | 13.2%        |
| Russia*            | 4.0%                   | 3.2%        | 13.9%        | 18.1%        |
| United Kingdom     | 1.6%                   | 0.0%        | 4.8%         | 5.2%         |
| Total-Europe       | 10.2%                  | 5.4%        | 5.1%         | 13.1%        |

| Country Allocation |                  |                  |              |              |
|--------------------|------------------|------------------|--------------|--------------|
|                    | Manager          | Index            | Manager      | Index        |
|                    | Allocation (USD) | Allocation (USD) | Return (USD) | Return (USD) |
| AsiaPacific        |                  |                  |              |              |
| Hong Kong          | 11.0%            | 0.0%             | -0.8%        | 5.1%         |
| India*             | 17.5%            | 8.8%             | 0.2%         | 3.0%         |
| Indonesia*         | 5.6%             | 2.5%             | -4.8%        | -1.1%        |
| Korea*             | 8.7%             | 15.7%            | 2.7%         | 2.5%         |
| Malaysia*          | 1.2%             | 2.4%             | 3.6%         | 1.9%         |
| Philippines*       | 3.9%             | 1.2%             | 4.5%         | 3.5%         |
| Taiwan*            | 5.2%             | 12.5%            | 3.2%         | 1.4%         |
| Thailand*          | 4.7%             | 2.2%             | 2.6%         | 10.6%        |
| Total-AsiaPacific  | 57.8%            | 73.2%            | 0.7%         | 7.1%         |
| Other              |                  |                  |              |              |
| South Africa*      | 3.3%             | 6.6%             | 6.4%         | 4.0%         |
| Turkey*            | 3.9%             | 1.2%             | 2.4%         | 0.3%         |
| Total-Other        | 7.2%             | 9.3%             | 4.3%         | 2.9%         |
| Totals             |                  |                  |              |              |
| Developed          | 16.9%            | 0.0%             | -0.5%        |              |
| Emerging*          | 83.1%            | 100.0%           | 5.3%         | 8.0%         |



# Total Fixed Income Composite



### Annualized Return vs. Annualized Standard Deviation 3 Years Ending September 30, 2017

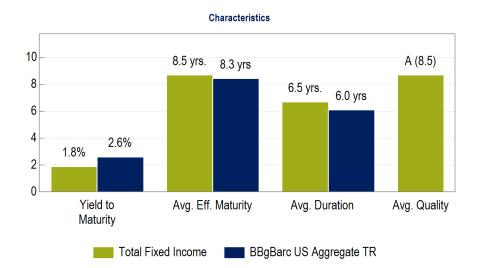
U.S. Effective Style Map 3 Years Ending September 30, 2017

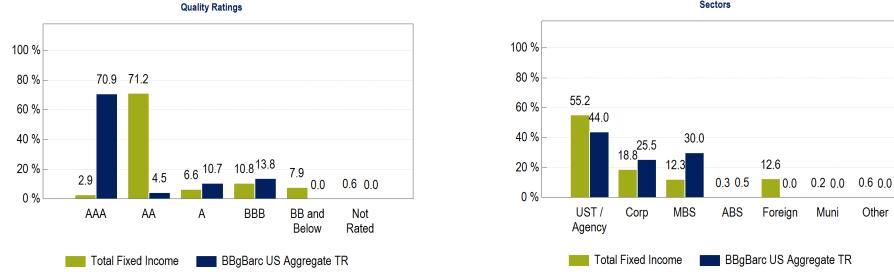


First Rolling Period

Last Rolling Period



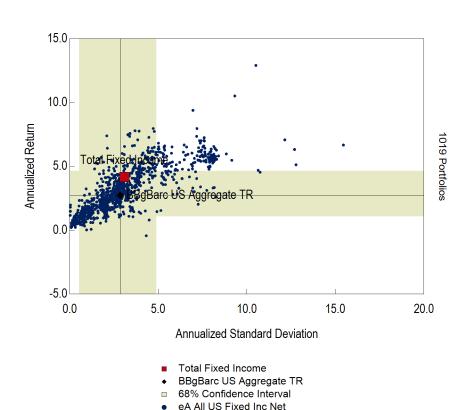




Sectors

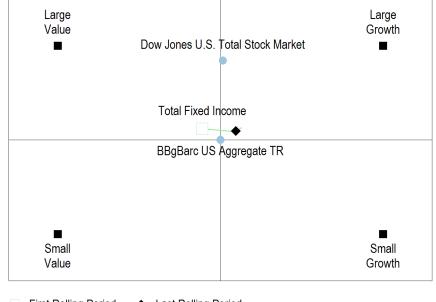
NEPC, LLC

# Fixed Income Composite



### Annualized Return vs. Annualized Standard Deviation 3 Years Ending September 30, 2017

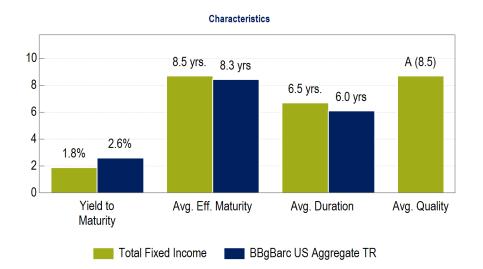
U.S. Effective Style Map 3 Years Ending September 30, 2017

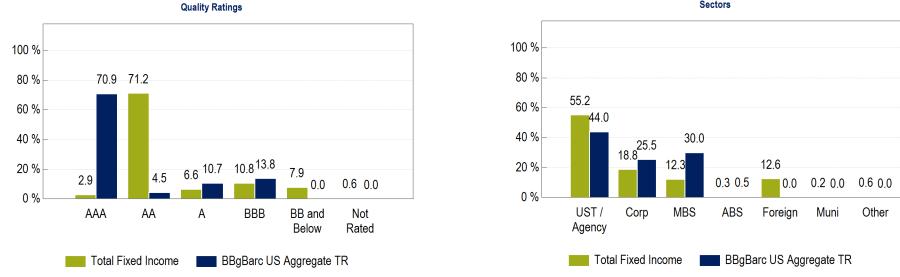


First Rolling Period

Last Rolling Period







Sectors

NEPC, LLC

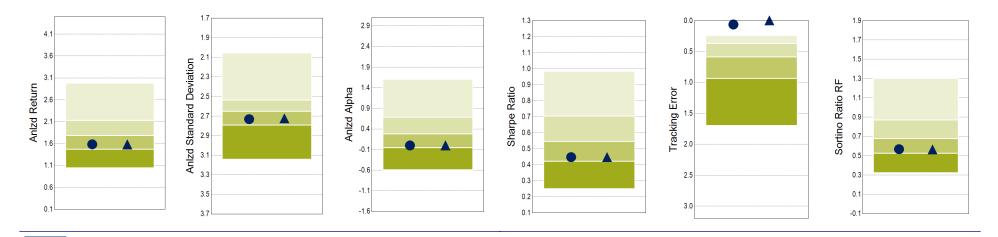
# SSgA Barclays Aggregate Index

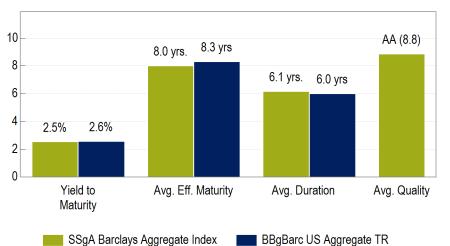
NEPC, LLC



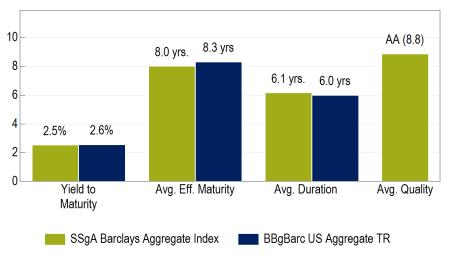
eA US Core Fixed Inc Net Accounts

Since Inception Risk Statistics

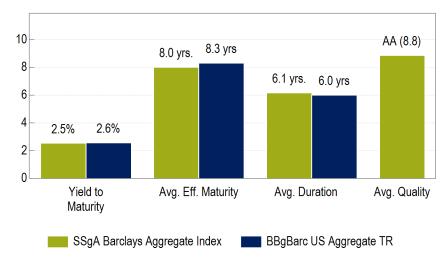








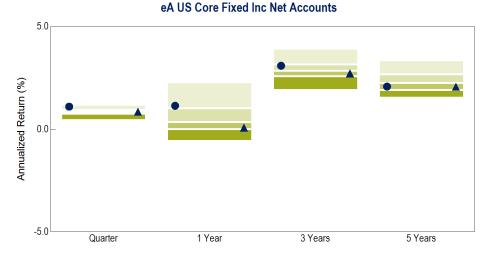
### Characteristics



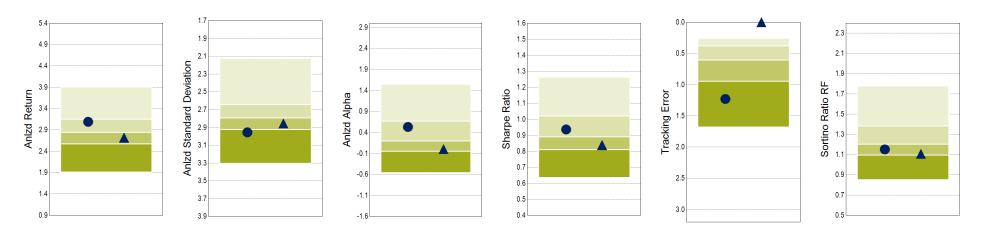
### Characteristics

# PIMCO Core Plus

PIMCO's investment process expects to generate above-benchmark returns by building diversified, risk-averse portfolios based upon their long-term secular outlook. This is achieved by analyzing fundamental global trends in such areas as political factors, inflation, volatility, growth, and currency, amongst others. The three to five-year secular outlook is the core element of their decision-making process, and serves as a framework for portfolio implementation. In applying the secular outlook to the portfolio, such tools as duration position, yield curve posture and sector allocation are expressed to best represent the firm's view on the macro-economic environment. Bottom-up analysis of specific securities is also an important part of the firm's philosophy. Bonds are evaluated on a rich/cheap basis and fundamental research determines strong portfolio candidates.



● PIMCO Core Plus ▲ BBgBarc US Aggregate TR

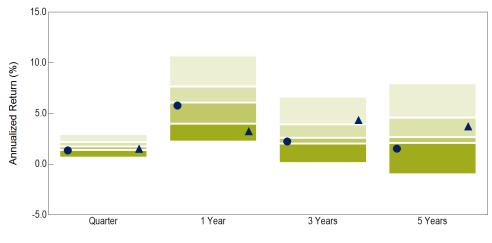


### **3 Year Risk Statistics**

# NE NEPC, LLC

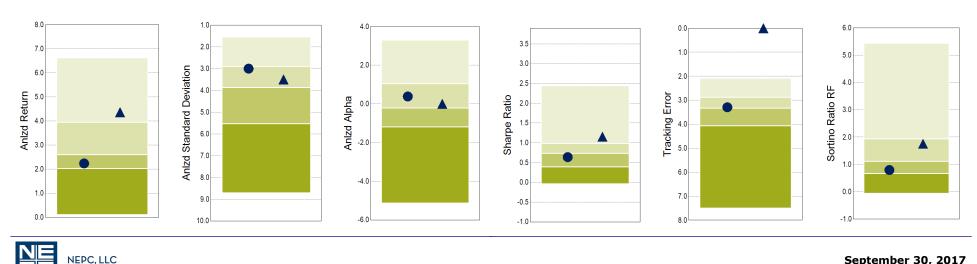
# PIMCO Unconstrained

The PIMCO Unconstrained Bond Strategy is an absolute return-oriented, investment grade quality fixed income strategy that embodies PIMCO's secular thinking, global themes, and integrated investment process without the constraints of a benchmark or significant sector/instrument limitations. The strategy is designed to offer the traditional benefits of a core bond portfolio - seeks maximum long-term return consistent with capital preservation and prudent management- but with higher potential alpha and the potential to mitigate downside risk to a greater degree than what is reasonably possible from traditional active fixed income management approaches as the strategy allows for more manager discretion to adjust duration exposure, allocate across sectors and otherwise express the firm's active views. The strategy is governed by PIMCO's investment philosophy and unique, disciplined secular investment process, which focuses on long-term economic, social and political trends that may have lasting impacts on investment returns.



#### eA Global Unconstrained Fixed Inc Net Accounts

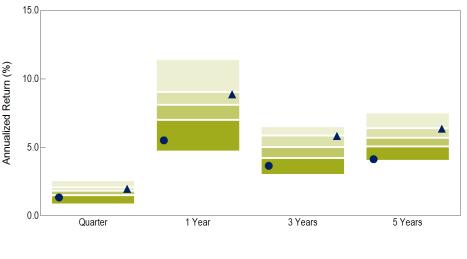
PIMCO Unconstrained ▲ 25% HY, 25% EMD, 50% BC Agg



#### **3 Year Risk Statistics**

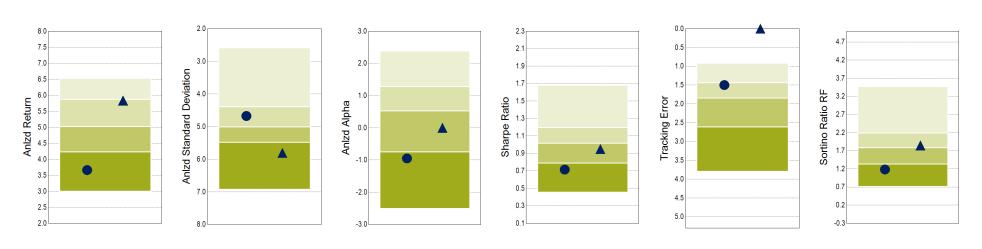
# KDP

KDP believes that the key to delivering superior risk-adjusted returns lies in controlling credit risk. To do this the firm combines rigorous, bottom-up credit analysis with an active, top-down management approach that ensures a strong overall credit profile and broad portfolio diversification. KDP employs a value-oriented approach to investing that leverages our strong fundamental research capabilities, and seeks to take advantage of market inefficiencies and anomalies on an opportunistic basis in order to capture excess credit spread. KDP places a strong emphasis on issuer, industry and sector diversification, and tends to focus on larger companies, as they tend to be more resilient in times of difficulty and their securities tend to be more liquid. KDP uses a proprietary "Default Risk Ranking (DRR)" System to screen securities eligible for purchase in its portfolios. By assigning default risk probabilities to companies covered, the DRR system is used to identify securities that are overvalued or undervalued relative to the market. The firm minimizes portfolio volatility in part by investing in securities of companies that exhibit greater resilience in times of financial distress. KDP focuses on companies with good management, stable to improving earnings, good balance sheet liquidity and a strong competitive position in industries with favorable underlying fundamentals.



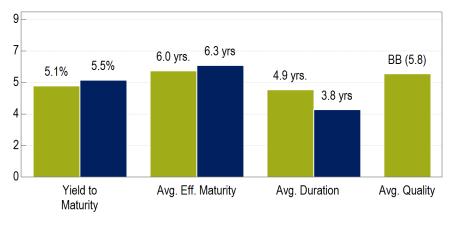
#### eA US High Yield Fixed Inc Net Accounts



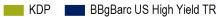


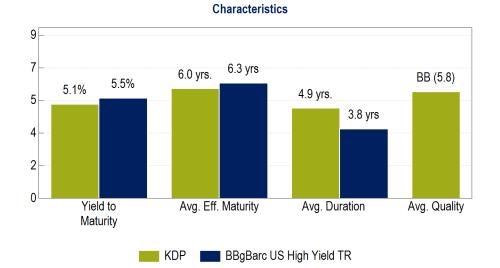
**3 Year Risk Statistics** 



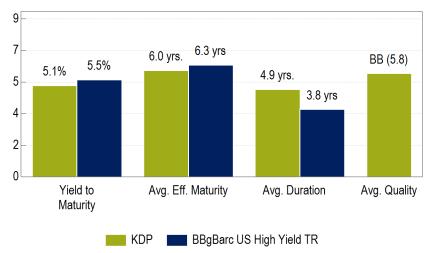


### Characteristics





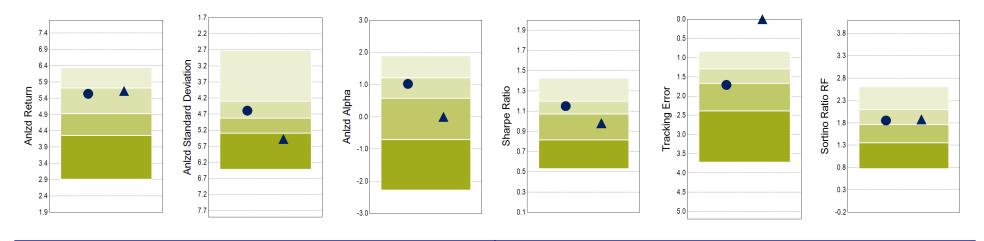
Characteristics





### eA US High Yield Fixed Inc Net Accounts

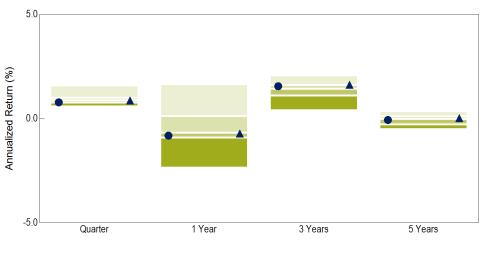
Since Inception Risk Statistics





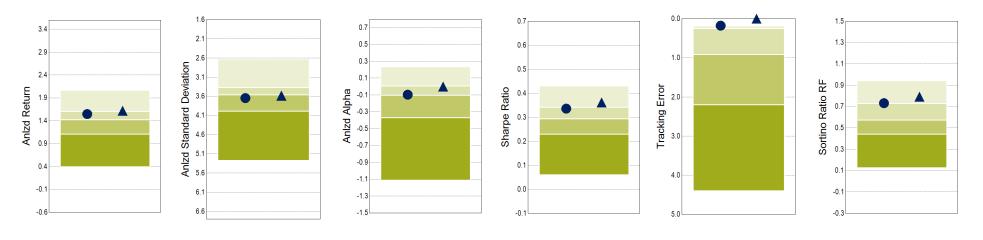
# BlackRock TIPS

In the management of an inflation-linked bond portfolio, BlackRock will utilize multiple strategies to outperform the index. These include: duration and yield curve positioning, technical supply/demand anomalies related primarily to the ILB auction cycle, seasonal factors related to non-seasonally adjusted inflation-linked indices, break-even spread between ILBs and nominal securities, and, if applicable, sector and country allocation. The team compares nominal yields with real yields and factor in their views on inflation. If the yield spread is less than the inflation rate, then ILBs are considered to trade cheaply to nominal bonds and have greater relative value. The portfolio currently holds about 31 positions, out of 27-29 issues in the benchmark. Turnover is moderate, at around 100-150%.



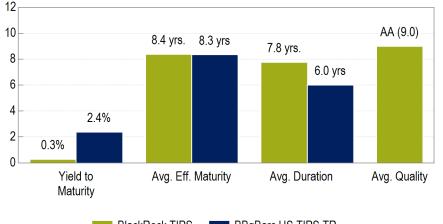
eA TIPS / Infl Indexed Fixed Inc Net Accounts

BlackRock TIPS
 A BBgBarc US TIPS TR



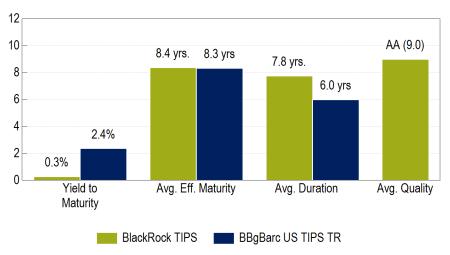
#### **3 Year Risk Statistics**



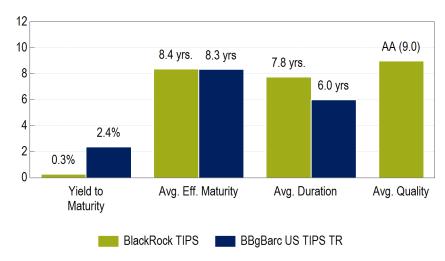


Characteristics

#### BlackRock TIPS BBgBarc US TIPS TR



#### Characteristics



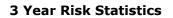
#### Characteristics

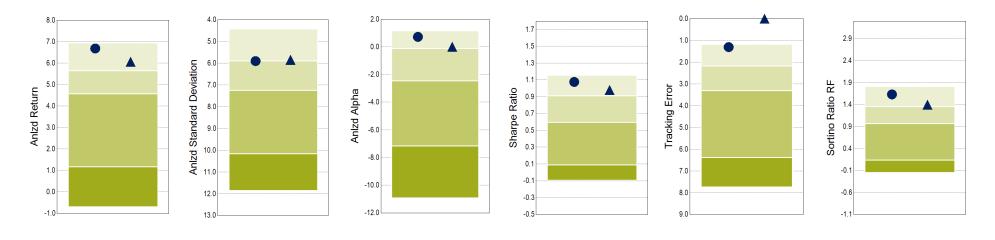


# Wellington Opportunistic EMD



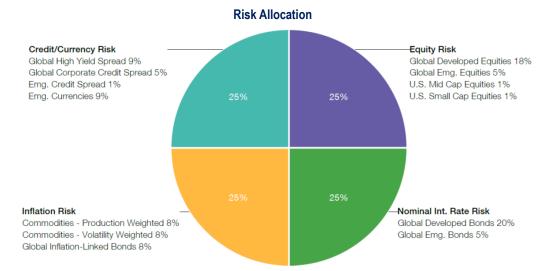
#### eA All Emg Mkts Fixed Inc Net Accounts





September 30, 2017

# AQR Global Risk Premium Fund



#### Estimated Exposure Breakdown

Long Exposure (% of NAV)

Long Exposure (% of NAV)

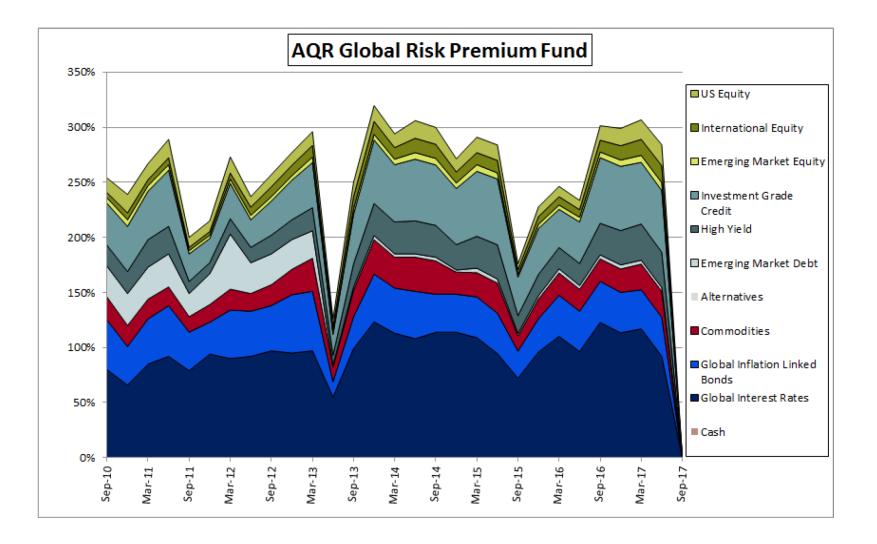
| Equity Risk                       |              |  |
|-----------------------------------|--------------|--|
| Global Developed Equities         | 30%          |  |
| Global Emerging Equities          | 7%           |  |
| U.S. Mid Cap Equities             | 2%           |  |
| U.S. Small Cap Equities           | 2%           |  |
| Total Equity Risk                 | 4 <b>1</b> % |  |
| Nominal Interest Rate Risk        |              |  |
| Global Developed Bonds            | 91%          |  |
| Global Emerging Bonds             | 23%          |  |
| Total Nominal Interest Rate Risk  | 114%         |  |
| Inflation Risk                    |              |  |
| Commodities - Production Weighted | 10%          |  |
| Commodities - Volatility Weighted | 17%          |  |
| Global Inflation-Linked Bonds     | 35%          |  |
| Total Inflation Risk              | 61%          |  |
| Credit/Currency Risk              |              |  |
| Global High Yield Spread          | 31%          |  |
| Global Corporate Credit Spread    | 54%          |  |
| Emerging Credit Spread            | 4%           |  |
| Emerging Currencies               | 27%          |  |
| Total Credit/Currency Risk        | 115%         |  |
| Total Fund Exposures              | 332%         |  |

| quity Market Exposures                              |      |
|-----------------------------------------------------|------|
| Americas                                            | 24%  |
| Europe                                              | 7%   |
| Asia ex-Japan                                       | 7%   |
| Japan                                               | 3%   |
| Total Equity Market Exposures                       | 41%  |
| ond Market Exposures - Nominal and Inflation-Linked |      |
| Americas                                            | 62%  |
| Europe                                              | 59%  |
| Asia                                                | 28%  |
| Total Bond Market Exposures                         | 149% |
| merging Currency Exposures                          |      |
| Asia                                                | 8%   |
| Europe                                              | 11%  |
| Latin America                                       | 7%   |
| Dollar Block ex-U.S.                                | 0%   |
| Dollar Diock ex-0.0.                                |      |

Source: AQR



# AQR Global Risk Premium Fund









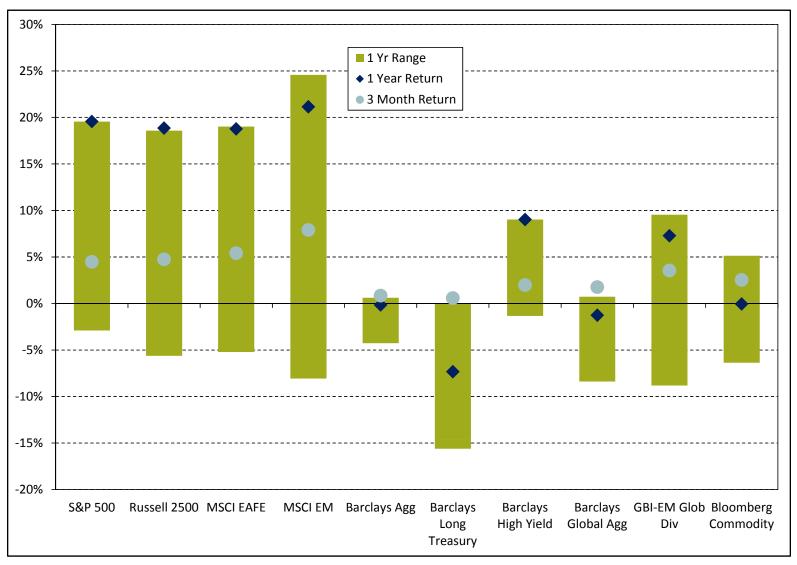
# Index Performance Summary as of 09/30/2017

|                        | 2009   | 2010  | 2011   | 2012  | 2013   | 2014   | 2015   | 2016  | Q1    | Q2    | Q3    | Sept  | YTD   |
|------------------------|--------|-------|--------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| MSCI EM                | 78.5%  | 18.9% | -18.4% | 18.2% | -2.6%  | -2.2%  | -14.9% | 11.2% | 11.4% | 6.3%  | 7.9%  | -0.4% | 27.8% |
| MSCI EAFE              | 31.8%  | 7.8%  | -12.1% | 17.3% | 22.8%  | -4.9%  | -0.8%  | 1.0%  | 7.2%  | 6.1%  | 5.4%  | 2.5%  | 20.0% |
| MSCI ACWI              | 34.6%  | 12.7% | -7.3%  | 16.1% | 22.8%  | 4.2%   | -2.4%  | 7.9%  | 6.9%  | 4.3%  | 5.2%  | 1.9%  | 17.3% |
| JPM GBI-EM Global Div  | 22.0%  | 15.7% | -1.8%  | 16.8% | -9.0%  | -5.7%  | -14.9% | 9.9%  | 6.5%  | 3.6%  | 3.6%  | -0.3% | 14.3% |
| S&P 500                | 26.5%  | 15.1% | 2.1%   | 16.0% | 32.4%  | 13.7%  | 1.4%   | 12.0% | 6.1%  | 3.1%  | 4.5%  | 2.1%  | 14.2% |
| Russell 1000           | 28.4%  | 16.1% | 1.5%   | 16.4% | 33.1%  | 13.2%  | 0.9%   | 12.1% | 6.0%  | 3.1%  | 4.5%  | 2.1%  | 14.2% |
| Russell 2500           | 34.4%  | 26.7% | -2.5%  | 17.9% | 36.8%  | 7.1%   | -2.9%  | 17.6% | 3.8%  | 2.1%  | 4.7%  | 4.5%  | 11.0% |
| Russell 2000           | 27.2%  | 26.9% | -4.2%  | 16.3% | 38.8%  | 4.9%   | -4.4%  | 21.3% | 2.5%  | 2.5%  | 5.7%  | 6.2%  | 10.9% |
| JPM EMBI Glob Div      | 29.8%  | 12.2% | 7.3%   | 17.4% | -5.3%  | 7.4%   | 1.2%   | 10.2% | 3.9%  | 2.2%  | 2.6%  | 0.0%  | 9.0%  |
| BC US Long Credit      | 16.8%  | 10.7% | 17.1%  | 12.7% | -6.6%  | 16.4%  | -4.6%  | 10.2% | 1.7%  | 4.7%  | 2.2%  | -0.2% | 8.7%  |
| BC US STRIPS 20+ Yr    | -36.0% | 10.9% | 58.5%  | 3.0%  | -21.0% | 46.4%  | -3.7%  | 1.4%  | 1.8%  | 6.1%  | 0.7%  | -2.8% | 8.7%  |
| BC US Govt/Cred Long   | 1.9%   | 10.2% | 22.5%  | 8.8%  | -8.8%  | 19.3%  | -3.3%  | 6.7%  | 1.6%  | 4.4%  | 1.5%  | -1.0% | 7.7%  |
| BC US Corporate HY     | 58.2%  | 15.1% | 5.0%   | 15.8% | 7.4%   | 2.5%   | -4.5%  | 17.1% | 2.7%  | 2.2%  | 2.0%  | 0.9%  | 7.0%  |
| BC Global Agg          | -6.5%  | -5.3% | -5.3%  | -4.1% | 2.7%   | -0.6%  | 3.3%   | 2.1%  | 1.8%  | 2.6%  | 1.8%  | -0.9% | 6.3%  |
| CS Hedge Fund          | 18.6%  | 10.9% | -2.5%  | 7.7%  | 9.7%   | 4.1%   | -0.7%  | 1.2%  | 2.1%  | 0.8%  | 0.6%  | -     | 4.9%  |
| BC Municipal           | 12.9%  | 2.4%  | 10.7%  | 6.8%  | -2.6%  | 9.1%   | 3.3%   | 0.2%  | 1.6%  | 2.0%  | 1.1%  | -0.5% | 4.7%  |
| FTSE NAREIT Eqy REITs  | 28.0%  | 28.0% | 8.3%   | 18.1% | 2.5%   | 30.1%  | 3.2%   | 8.5%  | 1.2%  | 1.5%  | 0.9%  | 0.0%  | 3.7%  |
| BC US Agg Bond         | 5.9%   | 6.5%  | 7.8%   | 4.2%  | -2.0%  | 6.0%   | 0.5%   | 2.6%  | 0.8%  | 1.4%  | 0.8%  | -0.5% | 3.1%  |
| CS Leveraged Loan      | 44.9%  | 10.0% | 1.8%   | 9.4%  | 6.2%   | 2.1%   | -0.4%  | 9.9%  | 1.2%  | 0.8%  | 1.1%  | 0.4%  | 3.0%  |
| BC US Agg Interm       | 6.5%   | 6.1%  | 6.0%   | 3.6%  | -1.0%  | 4.1%   | 1.2%   | 2.0%  | 0.7%  | 0.9%  | 0.7%  | -0.4% | 2.3%  |
| BC TIPS                | 11.4%  | 6.3%  | 13.6%  | 7.0%  | -8.6%  | 3.6%   | -1.4%  | 4.7%  | 1.3%  | -0.4% | 0.9%  | -0.6% | 1.7%  |
| BC US Govt/Cred 1-3 Yr | 3.8%   | 2.8%  | 1.6%   | 1.3%  | 0.6%   | 0.8%   | 0.7%   | 1.3%  | 0.4%  | 0.3%  | 0.3%  | -0.1% | 1.1%  |
| BBG Commodity          | 18.9%  | 16.8% | -13.3% | -1.1% | -9.5%  | -17.0% | -24.7% | 11.8% | -2.3% | -3.2% | 2.5%  | -0.1% | -2.9% |
| Alerian MLP            | 76.4%  | 35.9% | 13.9%  | 4.8%  | 27.6%  | 4.8%   | -32.6% | 18.3% | 3.9%  | -6.4% | -3.0% | 0.7%  | -5.6% |

Source: Bloomberg, Barclays, Alerian, Nareit, MSCI, JP Morgan, Credit Suisse



# Near Term Broad Market Performance Summary as of 09/30/2017



Source: Bloomberg, Standard and Poors, Russell, MSCI, Barclays, JP Morgan

\*1 Yr Range: Represents range of cumulative high/low daily index returns for an investment made one year ago



# Q3 2017 Key Market Themes

### • The US economy is experiencing an extended economic growth cycle

- US consumers and a tightening labor market are driving the US economy
- Growth recovery in Europe and the emerging markets reinforces US economic conditions
- Stable economic growth is a positive backdrop but expected risk asset returns are subdued

#### • Federal Reserve monetary policy remains on a gradual normalization path

- Markets continue to price in a slow pace for Fed rate hikes over the next 36 months
- The Fed will begin to shrink a \$4.5T balance sheet, longer-term impact is untested
- Chair Yellen's uncertain tenure may stoke market unease has her term expires in Feb. 2018

# China is modestly tightening financial conditions to slow credit growth and manage an orderly transition to a consumer led economy

- Markets have responded positively to the PBOC's management of a more stable yuan
- While capital outflow pressure has reversed, currency devaluation remains a tail risk
- Continued credit expansion and real estate development risk inflating asset price bubbles

### • Globalization backlash is disrupting the political and economic orthodoxy

- Conditions driving anti-establishment political sentiment have not subsided and risks stemming from globalization backlash likely lead to higher levels of currency volatility
- Changes to US trade policy under the current administration remain uncertain and an aggressive protectionist policy would represent a material risk to global markets



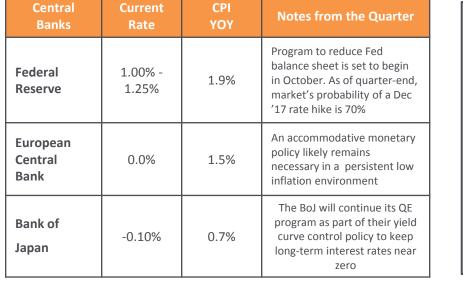
# Macro Performance Overview

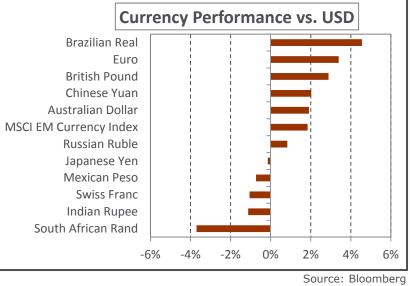
# **Q3 Macro Market Summary**

- US, Europe, Japan, and China continue to grow modestly in a synchronized economic expansion
- Long-term US interest rates were largely unchanged and reflect the low volatility of inflation
- The US Treasury curve flattened slightly as the 2 year rate rose

|               | Yield<br>6/30/17 | Yield<br>9/30/17 | Δ     |
|---------------|------------------|------------------|-------|
| US 10-Yr      | 2.30%            | 2.33%            | +.03% |
| US 30-Yr      | 2.84%            | 2.86%            | +.02% |
| US Real 10-Yr | 0.58%            | 0.49%            | 09%   |
| German 10-Yr  | 0.47%            | 0.46%            | 01%   |
| Japan 10-Yr   | 0.08%            | 0.06%            | 02%   |
| China 10-Yr   | 3.56%            | 3.62%            | +.06% |
| EM Local Debt | 6.15%            | 5.99%            | 16%   |

Source: Bloomberg







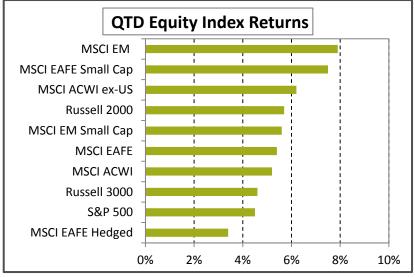
# Equity Performance Overview

# Q3 Equity Market Summary

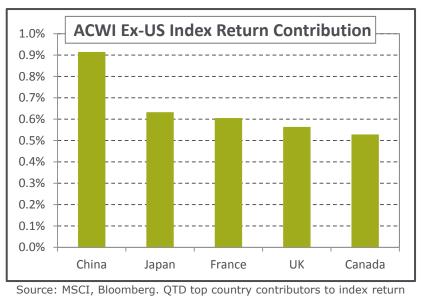
- US small caps rallied as the outlook for US tax reform improved during the quarter
- Corporate earnings growth has accelerated over the last 12 months led by small-caps in Europe/Japan and the technology sector for the US and EM

| Russell 3000 QTD Sector Return Contribution |                           |  |  |  |
|---------------------------------------------|---------------------------|--|--|--|
| Information Technology                      | 1.8%                      |  |  |  |
| Industrials 0.9%                            |                           |  |  |  |
| Financials                                  | 0.7%                      |  |  |  |
| Health Care 0.5%                            |                           |  |  |  |
| Energy                                      | 0.4%                      |  |  |  |
| Consumer Discretionary                      | 0.22%                     |  |  |  |
| Materials                                   | 0.19%                     |  |  |  |
| Utilities                                   | 0.13%                     |  |  |  |
| Telecommunication                           | 0.05%                     |  |  |  |
| Real Estate                                 | -0.08%                    |  |  |  |
| Consumer Staples                            | -0.14%                    |  |  |  |
|                                             | Source: Bussell Bloomborg |  |  |  |





Source: MSCI, Russell, S&P, Bloomberg





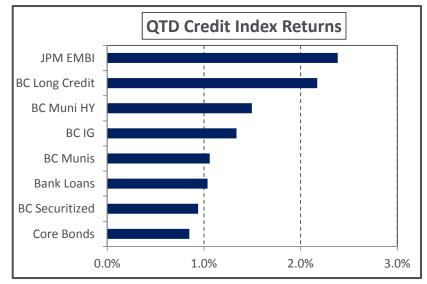
# Credit Performance Overview

# **Q3 Credit Market Summary**

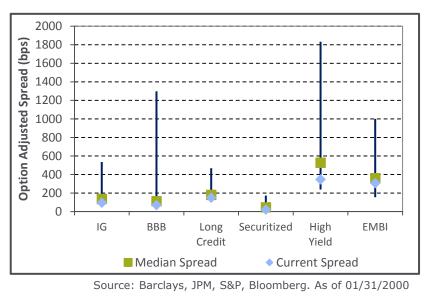
- Credit spreads continue to grind ٠ lower across all areas of the credit markets
- High yield and dollar EMD credit ٠ spread declines support a broad reduction in exposure
- Long credit continues to benefit ٠ from strong demand as spreads remain near long-term averages

| Credit Spread<br>(Basis Points) | 06/30/17 | 9/30/17 | Δ   |
|---------------------------------|----------|---------|-----|
| BC IG Credit                    | 103      | 96      | -7  |
| BC Long Credit                  | 157      | 149     | -8  |
| BC Securitized                  | 35       | 26      | -9  |
| BC High Yield                   | 364      | 347     | -17 |
| Muni HY                         | 386      | 309     | -77 |
| JPM EMBI                        | 328      | 308     | -20 |
| Bank Loans - Libor              | 346      | 349     | +3  |

Source: Barclays, Merrill Lynch, JPM, Bloomberg, NEPC



Source: Barclays, JPM, S&P, Bloomberg





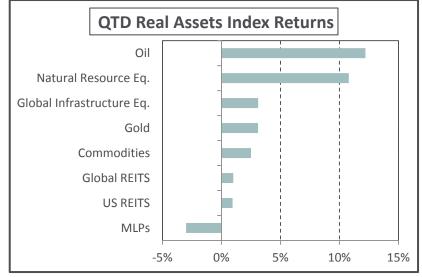
# Real Assets Performance Overview

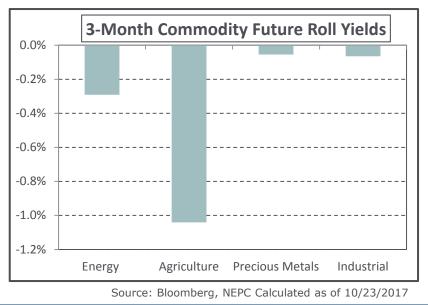
## **Q3 Real Assets Market Summary**

- Oil prices rebounded over the quarter and appear range bound between \$50 to \$60 a barrel
- Gold prices improved and likely benefited from a weaker dollar and geopolitical concerns
- Commodity index roll yield is more negative than the previous quarter, though oil futures are slightly positive

| Real Asset Yields              | 6/30/17 | 9/30/17 |
|--------------------------------|---------|---------|
| MLPs                           | 7.3%    | 7.8%    |
| Core Real Estate               | 4.7%    | 4.7%    |
| US REITS                       | 4.1%    | 4.0%    |
| Global REITs                   | 3.7%    | 3.4%    |
| Global Infrastructure Equities | 3.9%    | 3.9%    |
| Natural Resource Equities      | 3.5%    | 3.3%    |
| US 10-Yr Breakeven Inflation   | 1.7%    | 1.9%    |
| Commodity Index Roll Yield     | -0.4%   | -1.5%   |
|                                |         |         |

Source: NCREIF, Alerian, NAREIT, S&P, Bloomberg





Source: S&P, NAREIT, Alerian, Bloomberg

# Updated 3rd Quarter Key Market Themes and Current Opportunities

Key Market Themes

**Extended US Economic Cycle** 

**Federal Reserve Gradualism** 

**China Transitions** 

**Globalization Backlash** 

# **Current Opportunities**

**Trim US Equity Gains** 

**Overweight Non-US Developed Market Equities** 

Maintain a Market Overweight to Emerging Market Equities

Allocate to TIPS from Core Bonds

**Reduce High Yield Bond Exposure** 

**Fund Emerging Local Debt from Risk Assets** 

**Add Macro Hedge Funds** 

New Opportunity – Add Long Volatility Exposure



# **Extended US Economic Cycle**

#### **US** recession concerns are muted

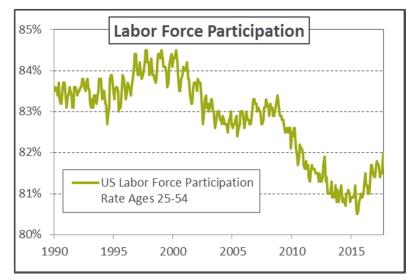
The US economy appears on a path of slow but steady growth as excess capacity is gradually absorbed by the economy

The labor market recovery has been strong but slack remains as many have yet to return to the workforce

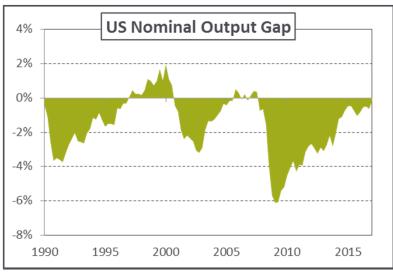
### US household balance sheets have room to expand and support further consumer spending gains

Improvement of economic conditions in Europe and emerging markets reinforce US economic gains as global growth factors synchronize

US corporate profitability is near all time highs and may be a challenge for companies to sustain



Source: FRED



Source: Congressional Budget Office, Bloomberg

NE PL NEPC, LLC

## **Federal Reserve Gradualism**

# The Federal Reserve is expected to slowly increase interest rates

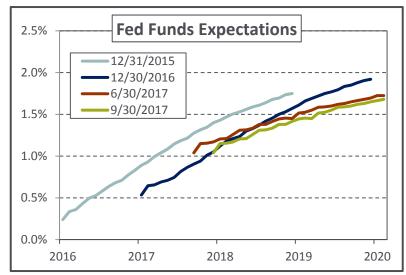
Expected path of Fed policy through 2020 matters more than timing of the next hike as the disconnect between market expectations and Fed signaling has grown

A relatively accommodative Fed is likely to continue, unless there is a dramatic acceleration in inflation

# The Fed will begin to reduce its balance sheet in October of 2017

The balance sheet will gradually shrink over time by tapering the reinvestment of maturing securities

The reinvestment of maturing securities will follow a specific schedule that is based on both time and dollar value



**Federal Reserve Balance Sheet Assets** 5000 4500 Other Securities 4000 MBS 3500 (\$) 3000 2500 2000 Treasuries 1500 1000 500 0 2019 2017 2022 2005 2001 2009

Source: Fed, Bloomberg

Source: Fed, Bloomberg, NEPC

Forecast based on the June Fed Minutes: MBS assumes \$4B per month for 3-month intervals over 12 months with a \$20B cap; Treasuries assume \$6B per month for 3-month intervals over 12 months with a \$30B cap; Other Securities are assumed to stay constant



## **China Transitions**

#### China is the global growth engine but faces fundamental transitions

China's economic transition is pivoting from a production to a service and consumption based economy

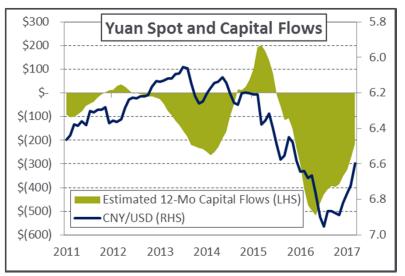
Fixed investment is required to sustain the production based economy and support labor force migration

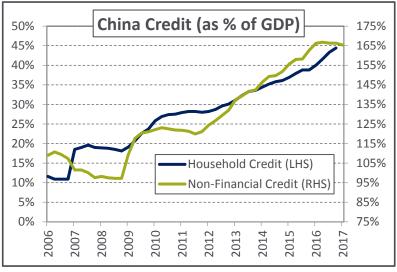
Any disruption to these transitions will have global repercussions due to China's role in the global economy

#### China's government is negotiating a balance between deleveraging and near term economic growth

Unrestrained growth in credit and real estate markets pose a systematic risk

Concerns of capital outflows have forced greater intervention from the central bank to limit currency movements





Source: China Foreign Exchange Trade System, Bloomberg

Source: Bank for International Settlements

# **Globalization Backlash**

### Uneven economic growth and wage gains have fueled political discontent in the developed world

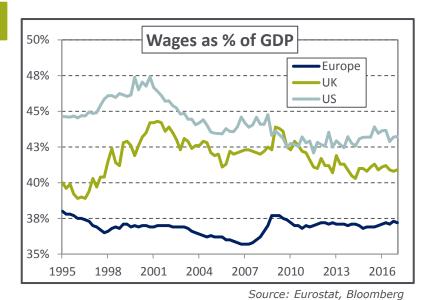
Election results in France and the UK have assuaged fears of political gridlock in Europe – but political conventions have been meaningfully challenged

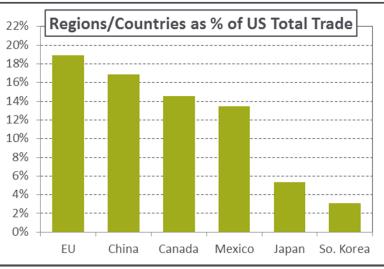
Despite election outcomes structural issues that stoked unease in Europe remain unresolved

# Major shifts in US trade policy have not materialized in 2017

However, a US move to an aggressive protectionist policy would represent a material risk to global markets

Markets have taken to interpreting the administrations rhetoric with a grain of salt but ongoing NAFTA negotiations are a concern





Source: IMF, Bloomberg



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- All investments carry some level of risk. Diversification and other asset allocation techniques are not guaranteed to ensure profit or protect against losses.
- NEPC's source for portfolio pricing, calculation of accruals, and transaction information is the plan's custodian bank. Information on market indices and security characteristics is received from other sources external to NEPC. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within.
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- Trailing time period returns are determined by geometrically linking the holding period returns, from the first full month after inception to the report date. Rates of return are annualized when the time period is longer than a year. Performance is presented gross and/or net of manager fees as indicated on each page.
- For managers funded in the middle of a month, the "since inception" return will start with the first full month, although actual inception dates and cash flows are taken into account in all Composite calculations.
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