



# Sacramento Regional Transit District Agenda

**COMBINED QUARTERLY MEETING OF THE RETIREMENT BOARDS FOR THE  
EMPLOYEES AND RETIREES OF THE SACRAMENTO REGIONAL TRANSIT DISTRICT  
9:00 A.M., WEDNESDAY, DECEMBER 14, 2016 REGIONAL TRANSIT AUDITORIUM  
1400 29<sup>TH</sup> STREET, SACRAMENTO, CALIFORNIA  
Website Address: [www.sacrt.com](http://www.sacrt.com)  
(29th St. Light Rail Station/Bus 38, 67, 68)**

**MEETING NOTE:** *This is a joint and concurrent meeting of the five independent Retirement Boards for the pension plans for the employees and retirees of the Sacramento Regional Transit District. This single, combined agenda designates which items will be subject to action by which board(s). Members of each board may be present for the other boards' discussions and actions, except during individual closed sessions.*

**ROLL CALL**

ATU Retirement Board: Directors: Li, Morin, Niz, De La Torre  
Alternates: Jennings, Lee

IBEW Retirement Board: Directors: Li, Morin, Ohlson, Burdick  
Alternates: Jennings, Gallow

AEA Retirement Board: Directors: Li, Morin, Devorak  
Alternates: Jennings, Robison

AFSCME Retirement Board: Directors: Li, Morin, Mallonee, Hoslett  
Alternates: Jennings, Kent

MCEG Retirement Board: Directors: Li, Morin, Lonergan, Thorn  
Alternates: Jennings, Sanchez-Ochoa

**PUBLIC ADDRESSES BOARD ON MATTERS ON CONSENT AND MATTERS NOT ON THE AGENDA**  
At this time the public may address the Retirement Board(s) on subject matters pertaining to Retirement Board business listed on the Consent Calendar, any Closed Sessions or items not listed on the agenda. Remarks may be limited to 3 minutes subject to the discretion of the Common Chair. Members of the public wishing to address one or more of the Boards may submit a "Public Comment Speaker Card" to the Assistant Secretary. While the Retirement Boards encourage your comments, State law prevents the Boards from discussing items that are not set forth on this meeting agenda. The Boards and staff take your comments very seriously and, if appropriate, will follow up on them.

**CONSENT CALENDAR**

		<u>ATU</u>	<u>IBEW</u>	<u>AEA</u>	<u>AFSCME</u>	<u>MCEG</u>
1. Motion:	Approving the Minutes for the August 31, 2016 Special Retirement Board Meeting (AEA). (Bonnel)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Motion:	Approving the Minutes for the September 14, 2016 Quarterly Retirement Board Meeting (AEA). (Bonnel)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Motion:	Receive and File Administrative Reports for the Quarter Ended September 30, 2016 for the Salaried Pension Plan (AEA/AFSCME/MCEG). (Bernegger)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		<u>ATU</u>	<u>IBEW</u>	<u>AEA</u>	<u>AFSCME</u>	<u>MCEG</u>
4. Motion:	Approving the Minutes for the August 31, 2016 Special Retirement Board Meeting (AFSCME). (Bonnel)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Motion:	Approving the Minutes for the September 14, 2016 Quarterly Retirement Board Meeting (AFSCME). (Bonnel)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Motion:	Receive and File Administrative Reports for the Quarter Ended September 30, 2016 for the Salaried Pension Plan (AEA/AFSCME/MCEG). (Bernegger)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Motion:	Approving the Minutes for the August 31, 2016 Special Retirement Board Meeting (ATU). (Bonnel)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Motion:	Approving the Minutes for the September 14, 2016 Quarterly Retirement Board Meeting (ATU). (Bonnel)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Motion:	Receive and File Administrative Reports for the Quarter Ended September 30, 2016 for the ATU Pension Plan (ATU). (Bernegger)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Motion:	Approving the Minutes for the August 31, 2016 Special Retirement Board Meeting (IBEW). (Bonnel)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Motion:	Approving the Minutes for the September 14, 2016 Quarterly Retirement Board Meeting (IBEW). (Bonnel)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Motion:	Receive and File Administrative Reports for the Quarter Ended September 30, 2016 for the IBEW Pension Plan (IBEW). (Bernegger)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Motion:	Approving the Minutes for the August 31, 2016 Special Retirement Board Meeting (MCEG). (Bonnel)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14. Motion:	Approving the Minutes for the September 14, 2016 Quarterly Retirement Board Meeting (MCEG). (Bonnel)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Motion:	Receive and File Administrative Reports for the Quarter Ended September 30, 2016 for the Salaried Pension Plan (AEA/AFSCME/MCEG). (Bernegger)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## **NEW BUSINESS**

		<u>ATU</u>	<u>IBEW</u>	<u>AEA</u>	<u>AFSCME</u>	<u>MCEG</u>
16. Information:	Investment Performance Review by Dimensional Fund Advisors (DFA) for the ATU, IBEW and Salaried Employee Retirement Plans for the International Emerging Markets Asset Class for the Quarter Ended September 30, 2016 (ALL). (Bernegger)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
17. Information:	Investment Performance Review of the S&P 500 Index and MSCI EAFE Funds by State Street Global Advisors (SSgA) for the ATU, IBEW and Salaried Employee Retirement Funds for the Quarter Ended September 30, 2016 (ALL). (Bernegger)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
18. Motion:	Receive and File the Investment Performance Reports for the ATU, IBEW and Salaried Employee Funds for Quarter Ended September 30, 2016. (Bernegger)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
19. Resolution:	Selection of a Common Chair and Vice Chair for Retirement Board Meetings (ALL). (Bonnel)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

- |  |                                     |                                     |                                     |                                     |                                     |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 20. Information: Update on Staff Roles and Responsibilities Related to Pension Administration (ALL). (Bonnell) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 21. Information: AB 1234 Local Government Ethics Training (ALL). (Bonnell)                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 22. Resolution: Approving Disability Retirement Application of William Barbour (ATU). (Bonnell)                | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |

**REPORTS FROM COMMITTEES**  
**REPORTS, IDEAS AND COMMUNICATIONS**  
**ADJOURN**

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**NOTICE TO THE PUBLIC**

It is the policy of the Boards of Directors of the Sacramento Regional Transit District Retirement Plans to encourage participation in the meetings of the Boards of Directors. At each open meeting, members of the public shall be provided with an opportunity to directly address the Board on items of interest to the public that are within the subject matter jurisdiction of the Boards.

This agenda may be amended up to 72 hours prior to the meeting being held. An agenda, in final form, is located by the front door of Regional Transit's building at 1400 – 29<sup>th</sup> Street and posted to RT's website at [www.sacrt.com](http://www.sacrt.com).

Any person(s) requiring accessible formats of the agenda or assisted listening devices/sign language interpreters should contact the Human Resources Manager at 916-556-0280 or TDD 916/483-4327 at least 72 business hours in advance of the Board Meeting.

Copies of staff reports or other written documentation relating to each item of business referred to on the agenda are on file with the Human Resources Administrative Technician at 916-556-0298 and/or Clerk to the Board of Directors of the Sacramento Regional Transit District and are available for public inspection at 1400 29<sup>th</sup> Street, Sacramento, CA. Any person who has questions concerning any agenda item may call the Human Resources Administrative Technician of Sacramento Regional Transit District to make inquiry.

**Sacramento Regional Transit District  
IBEW Retirement Board Meeting  
Wednesday, August 31, 2016  
MEETING SUMMARY**

**ROLL CALL**

The Retirement Board was brought to order at 9:04 a.m. A quorum was present comprised as follows: Directors Li, Morin, Ohlson and Burdick were present. Alternate Gallow and Alternate Jennings were absent.

This meeting was held as a common meeting of the five Sacramento Regional Transit District Retirement Boards.

By IBEW Resolution No. 16-02-171 for calendar year 2016, the Governing Board Member in attendance served as Common Chair of this Retirement Board meeting.

**PUBLIC ADDRESSES BOARD ON MATTERS ON CONSENT AND MATTERS NOT ON THE AGENDA**

None.

**New Business:**

1. Resolution: Approving a Contract with Hanson Bridgett LLP To Provide Legal Services for ATU, IBEW, and Salaried Retirement Plans (ALL). (Bonnell)

Donna Bonnell provided information on the proposed Hanson Bridgett LLP contract.

AEA Director Drake asked if the proposed contract document has been prepared. Ms. Bonnell noted that we do not have a contract at the moment. The procurement analyst handling the contract has been out. Another member of Procurement staff will be handling the contract in her absence. Ms. Bonnell noted that there is an agreement between staff and Hanson Bridgett on contract terms, including related to one exception to the agreement provided in the Request for Proposals, and there is also an agreement on the fees. Staff will now need to customize the sample agreement form.

MCEG Alternate Thorn asked how the proposed contract amount compares to the previous contract. Ms. Bonnell noted that the current contract is about \$16,000/month plus work orders. The new contract would increase to about \$19,000/month plus work orders. Work orders are estimated to be three per year at \$25,000 each. The contract is about 1.5 million over the five year period with the option of two one-year extensions. Ms. Bonnell noted that the contract not-to-exceed amount is slightly less than the current run rate.

Director Morin moved to adopt Item 1. Director Li seconded the motion. Item 1 was carried unanimously by roll call vote: Ohlson, Burdick, Li and Morin. Noes: None.

Following the vote of AEA, AFSCME, ATU, and IBEW Retirement Boards there was additional conversation prior to contract approval by the MCEG Retirement Board.

At Ms. Bonnel's request, Hanson Bridgett Legal Counsel Shayna van Hoften and Anne Hydorn left the room at 9:14 a.m.

During that discussion, Director Ohlson asked if it would be possible for the Boards to hire an attorney full-time. Ms. Bonnel noted that as addressed previously, from the District's perspective, it is not possible to hire an attorney as an employee of the District without breaching conflict of interest rules under California law as well as uphold their obligations to the State Bar of California. This is based upon the attorney handling District projects part-time and pension projects part-time. Also, when benchmarking was performed, staff found no other agency with an attorney that splits their time as the Boards requested.

Jamie Adelman noted that if we transitioned to a single attorney, employed by the District, we would lose the depth of knowledge provided by a law firm; we are not going to get a single person that is an expert in multiple fields. Therefore, in addition to the District's attorney, we would have to hire out for specific issues.

Ms. van Hoften and Ms. Hydorn returned to the meeting room.

2. Resolution: Amending the Contract with JP Morgan to Adopt Performance-Based Pricing for International Equity Fund Management (ALL). (Bernegger)

Jamie Adelman provided information on the request to amend the contract with JP Morgan to adopt performance-based pricing for international equity fund management.

Ms. Adelman reported that at their June 15, 2016 Quarterly Retirement Board Meeting, the Retirement Boards put JP Morgan on "watch." Per the Retirement Boards' Statement of Investment Objectives and Policy Guidelines, when an investment manager is placed on the Watch List, the manager's performance is monitored in more depth by the Retirement Boards and their investment consultant on a quarterly and annual basis for a minimum of two years. The Retirement Boards can choose to terminate a manager at any time based on the recommendation and/or consultation of the investment consultant or staff, or as deemed necessary by the Boards.

In July 2016, Andrew Knapp and Kit Rodrigo of JP Morgan reached out to staff to discuss JP Morgan's performance over the past three years. During these discussions, staff informed JP Morgan that they had officially been placed on watch by the Retirement Boards and that the Retirement Boards had instructed Callan Associates to perform a search for a replacement International Equity fund manager. JP Morgan appreciated the forthrightness of staff and offered performance-based pricing to help ease the cost of investment with the manager.

Under the performance-based pricing model, there would be two fees, 1) the base fee and 2) a performance rate. The base fee would be charged on a quarterly basis and would equate to 15 BPs per annum. The performance rate would be equal to 20% of the fund's outperformance over the MSCI EAFE Index benchmark (after subtraction of the 15 BP base fee) over a three-year term, and would be assessed annually for the first three years, then quarterly thereafter.

Ms. Adelman noted that it would be a significant savings for the Boards moving forward. JP Morgan did not place a time restraint on this amendment. This presents the Boards with the

opportunity to take advantage of the cost savings and replace JP Morgan in six months if deemed necessary.

Director Morin moved to adopt Item 2. Director Li seconded the motion. Item 2 was carried unanimously by roll call vote: Directors Ohlson, Burdick, Li and Morin. Noes: None.

3. Resolution: Authorization Execution of Plan Trust Documents (ALL). (Bonnel)

Jamie Adelman provided information on the request to authorize execution of plan trust documents.

Legal Counsel Anne Hydorn with Hanson Bridgett advised that the Pension Plans have 150 days to take all IRS-approved correction actions required to maintain their tax-qualified status. Evidence of the corrections must be documented and made available in the event of an audit.

MCEG Alternate Thorn asked if there was any risk of not meeting the October 7, 2016 deadline.

Ms. Hydorn responded in the affirmative. Ms. Hydorn noted that the IRS accepted the proposed corrections that the District submitted. If the 150 day deadline for performance of the corrections is not met for any one or more of the Plans, such Plan(s) would not be tax compliant. The vote today is the last step in this process.

Director Morin moved to adopt Item 3. Director Li seconded the motion. Item 3 was carried unanimously by roll call vote: Directors Ohlson, Burdick, Li and Morin. Noes: None.

Ms. Bonnel thanked pension staff, legal counsel, and District staff for their collaborative efforts to complete the tax qualification letter process.

4. Motion: Public Record Act Request/ Brown Act Training (ALL). (Bonnel)

Legal Counsel Shayna van Hoften with Hanson Bridgett presented a training on the Public Records Act and Brown Act open government laws, and was available for questions.

**REPORTS FROM COMMITTEES**

None.

**REPORTS, IDEAS AND COMMUNICATIONS**

Jamie Adelman reported that the Pension Plans are now invested with AQR as of August 1, 2016. AQR is the Small Cap International Manager that was selected by the Boards in February.

**With no further business to discuss, the meeting was adjourned by Assistant Secretary Bonnel at 10:15 a.m.**

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Eric Ohlson, Chair

ATTEST:

Lorrin Burdick, Secretary

By: \_\_\_\_\_  
Donna Bonnel, Assistant Secretary

**Sacramento Regional Transit District  
IBEW Retirement Board Meeting  
Wednesday, September 14, 2016  
MEETING SUMMARY**

**ROLL CALL**

The Retirement Board was brought to order at 9:03 a.m. A quorum was present comprised as follows: Directors Li, Morin, Ohlson and Burdick. Alternate Gallow also was present. Alternate Jennings was absent.

This meeting was held as a common meeting of the five Sacramento Regional Transit District Retirement Boards.

By IBEW Resolution No. 16-02-171 for calendar year 2016, the Governing Board Member in attendance served as Common Chair of this Retirement Board meeting.

**PUBLIC ADDRESSES BOARD ON MATTERS ON CONSENT AND MATTERS NOT ON THE AGENDA**

None.

**Consent Calendar:**

- 10. Motion: Approving the Minutes for the June 15, 2016 Quarterly Retirement Board Meeting (IBEW). (Bonnel)
- 11. Motion: Receive and File Administrative Reports for the Quarter Ended June 30, 2016 for the ATU/IBEW Pension Plan (ATU/IBEW). (Bernegger)
- 12. Motion: Adopting Regional Transit Retirement Boards 2017 Meeting Calendar (IBEW). (Bonnel)

Director Morin moved to adopt Items 10 through 12. Director Li seconded the motion. Items 10 through 12 were carried unanimously by roll call vote: Ayes: Directors Ohlson, Burdick, Li and Morin. Noes: None.

**New Business:**

**The order of New Business items was adjusted to ensure all of the items requiring action would be addressed in case members had to leave resulting in loss of a quorum. The revised order was: 16-17, 20, 22, 18-19, 21.**

- 16. Resolution: Selection of a Common Vice Chair for Retirement Board Meetings (ALL). (Bonnel)



Donna Bonnel presented Item 16 for approval.

Director Morin moved to adopt the resolution approving Henry Li as Common Vice Chair. Director Li seconded the motion. Item 16 was carried unanimously by roll call vote. Ayes: Directors Ohlson, Burdick, Li and Morin. Noes: None.

20. Motion: Receive and File the Investment Performance Results for the ATU/IBEW and Salaried Employee Retirement Plans for the Quarter Ended June 30, 2016 (ALL). (Bernegger)

Jamie Adelman introduced Ann Heaphy and Uvan Tseng from Callan Associates, who provided a market overview for the Quarter Ended June 30, 2016 and to be available for questions.

Director Morin moved to adopt Item 20. Director Li seconded the motion. Item 20 was carried unanimously by roll call vote. Ayes: Directors Ohlson, Burdick, Li and Morin. Noes: None.

18. Information: Investment Performance Review by Atlanta Capital for the ATU/IBEW and Salaried Employee Retirement Plans for the Domestic Small Cap Equity Asset Class for the Quarter Ended June 30, 2016 (ALL). (Bernegger)

Jamie Adelman introduced Michael Jaje from Atlanta Capital to provide a review of domestic small cap investments and be available for questions.

Director Morin left at 9:23 a.m. and returned at 9:25 a.m.

AEA Director Drake asked how he should read the bar chart reflected in Attachment 1, Page 8, and if the figure of 11.7 shows differences as compared to the Index. Mr. Jaje responded in the affirmative.

AEA Director Drake asked where the excess returns came from. Mr. Jaje noted that from the Summer of 2015 through February 11, 2016, the small cap markets were down 20-25%. In that period, Atlanta Capital protected well and captured about 55% of the down market. He noted that when you don't lose as much, you don't have to run as hard when things turn up again.

19. Information: Investment Performance Review by Robeco Boston Partners for the ATU/IBEW and Salaried Employee Retirement Plans for the Domestic Large Cap Equity Class for the Quarter Ended June 30, 2016 (ALL).

Jamie Adelman introduced Carolyn Margiottii from Boston Partners to provide a review of domestic large cap investments and be available for questions.

Director Li left at 10:05 a.m.

21. Information: Update on Roles and Responsibilities Related to Pension Administration (ALL). (Bonnel)

Donna Bonnel provided an update on the roles and responsibilities of various District staff members and Legal Counsel related to the administration of the Pension Plans. Ms. Bonnel also noted that Mariza Montung-Fuller joined the pension team on June 1, 2016.

**REPORTS FROM COMMITTEES**

None.

**REPORTS, IDEAS AND COMMUNICATIONS**

None.

**With no further business to discuss, the AEA, AFSCME, ATU, and IBEW Retirement Boards were adjourned by Assistant Secretary Bonnel at 10:11 a.m.**

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Eric Ohlson, Chair

ATTEST:

Lorrin Burdick, Secretary

By: \_\_\_\_\_  
Donna Bonnel, Assistant Secretary

# REGIONAL TRANSIT ISSUE PAPER

Agenda Item No.	Board Meeting Date	Open/Closed Session	Information/Action Item	Issue Date
12	12/14/16	Retirement	Action	10/05/16

Subject: Receive and File Administrative Reports for the Quarter Ended September 30, 2016 for the IBEW Pension Plan (IBEW). (Bernegger)

## ISSUE

Receive and File Administrative Reports for the Quarter Ended September 30, 2016 for the IBEW Pension Plan (IBEW). (Bernegger)

## RECOMMENDED ACTION

Motion: Receive and File Administrative Reports for the Quarter Ended September 30, 2016 for the IBEW Pension Plan (IBEW). (Bernegger)

## FISCAL IMPACT

None

## DISCUSSION

As of July 1, 2016 the financial record keeping for the ATU and IBEW Plans was separated to comply with IRS requirements as requested by Sacramento Regional Transit District as sponsor of the five pension plans for its employees and retirees. Going forward, all financial statement information will be presented separately for the ATU and IBEW Plans.

Attached hereto are unaudited financial statements for the quarter and the year-to-date ended September 30, 2016. The financial statements are presented on an accrual basis and consist of a Statement of Fiduciary Net Position (balance sheet) (Attachment 1), a Statement of Changes in Fiduciary Net Position (income statement) for the quarter ended September 30, 2016 (Attachment 2), and a year-to-date Statement of Changes in Fiduciary Net Position (Attachment 3).

The Statement of Fiduciary Net Position includes a summary of fund assets showing the amounts in the following categories: cash, money market, and securities. This statement also provides amounts due from/to the District and Total Fund Equity (net position).

The Statement of Changes in Fiduciary Net Position includes activities in the following categories: investment gains/losses, dividends, interest income, unrealized gains/losses, benefit contributions/payouts, and investment management and administrative expenses.

## Asset Rebalancing

Pursuant to Section IV, Asset Rebalancing Policy of the Statement of Investment Objectives and Policy Guidelines for the ATU, IBEW and Salaried Employees' Retirement Funds, the

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Approved:

Presented:

FINAL 11/22/2016

Chief Financial Officer, Acting

Senior Accountant

# REGIONAL TRANSIT ISSUE PAPER

Agenda Item No.	Board Meeting Date	Open/Closed Session	Information/Action Item	Issue Date
12	12/14/16	Retirement	Action	10/05/16

Subject: Receive and File Administrative Reports for the Quarter Ended September 30, 2016 for the IBEW Pension Plan (IBEW). (Bernegger)

Retirement Boards have delegated authority to manage pension plan assets in accordance with the approved rebalancing policy to the District's Director of Finance/Treasury. The Director is required to report asset rebalancing activity to the Boards at their quarterly meetings. Rebalancing can occur for one or more of the following reasons:

1. The Pension Plan ended the month with an accounts receivable or payable balance due to the District. A payable or receivable is the net amount of the monthly required contribution (required contribution is the percentage of covered payroll determined by the annual actuarial valuation) less the Plan's actual expenses.
2. The Pension Plan hires or removes a Fund Manager, in which case securities must be moved to a new fund manager.
3. The Pension Plan investment mix is under or over the minimum or maximum asset allocation as defined in the Statement of Investment Objectives and Policy Guidelines.

Attached hereto as Attachment 4 is the IBEW Plan's Schedule of Cash Activities for the three months ended September 30, 2016. The schedule of cash activities includes a summary of Plan activities showing the amounts in the following categories: District's pension contributions to the Plan, payments to retirees, and the Pension Plan's cash expenditures paid. This schedule also lists the rebalancing activity that occurred for the three months ended September 30, 2016. The IBEW Plan reimbursed \$130,654.52 to the District as the result of the net cash activity between the pension plan expenses and the required pension contributions.

Attached hereto as Attachment 5 is the IBEW Plan's Asset Allocation as of September 30, 2016. This statement shows the IBEW Plan's asset allocation as compared to targeted allocation percentages as defined in the Statement of Investment Objectives and Policy Guidelines.

Attached hereto as Attachment 6 is a reconciliation between the Callan Performance Report and the ATU, IBEW and Salaried Pension Plans' unaudited financial statements. The reports differ in that the unaudited financial statements reflect both investment activities and the pension fund's inflows and outflows. Callan's report only reflects the investment activities. The "Net Difference" amounts shown are the results of Callan and State Street using different valuations for the same securities and/or litigation settlements received by the Plans.

Included also as Attachment 7 is a reconciliation between the Callan Performance Report and the Schedule of Cash Activities for payments made from/to the District. Callan's report classifies gains from trades and litigation income as "net new investments." Finance staff classifies gains from trades and litigation income in the Pension Fund's unaudited Statement of Changes in Plan Net Position as "Other Income," which is combined in the category of "Interest, Dividend, & Other Inc".

Attached hereto as Attachment 8 is a schedule reflecting Fund Managers' quarterly investment returns and their investment fees. Additionally, the schedule reflects annual rates of return on

# REGIONAL TRANSIT ISSUE PAPER

Agenda Item No.	Board Meeting Date	Open/Closed Session	Information/Action Item	Issue Date
12	12/14/16	Retirement	Action	10/05/16

Subject: Receive and File Administrative Reports for the Quarter Ended September 30, 2016 for the IBEW Pension Plan (IBEW). (Bernegger)

investment net of investment fees for the one-year and three-year periods ended September 30, 2016 as compared to their benchmarks.

Attached hereto as Attachment 9 is a schedule reflecting all retirements that occurred, as well as any transfer of employees or plan assets from the IBEW Plan to the Salaried Plan during the three months ended September 30, 2016.

**Sacramento Regional Transit District Retirement Plan - IBEW**  
**Statement of Fiduciary Net Position**

Accrual Basis

As of September 30, 2016

	Sep 30, 16
<b>ASSETS</b>	
Current Assets	
Checking/Savings	
Long-Term Investments	46,607,825.69
Total Checking/Savings	46,607,825.69
Other Current Assets	
Prepays	4,565.76
Total Other Current Assets	4,565.76
Total Current Assets	46,612,391.45
<b>TOTAL ASSETS</b>	<b>46,612,391.45</b>
<b>LIABILITIES &amp; EQUITY</b>	
Liabilities	
Current Liabilities	
Accounts Payable	
Administrative Expense Payable	5,069.39
Atlanta Capital	8,245.97
Boston Partners	10,145.37
Callan	1,917.02
JP Morgan	7,372.59
MetWest	11,281.00
Other Pay - Due to RT	24,357.44
SSgA - EAFE	424.59
State Street	3,962.22
Total Accounts Payable	72,775.59
Total Current Liabilities	72,775.59
Total Liabilities	72,775.59
Equity	
Retained Earning	45,066,750.96
Net Income	1,472,864.90
Total Equity	46,539,615.86
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b>46,612,391.45</b>

**Sacramento Regional Transit District Retirement Plan - IBEW  
Statement of Changes in Fiduciary Net Position**

Accrual Basis

July through September 2016

	<u>Jul - Sep 16</u>
<b>Income</b>	
<b>Interest, Dividend, &amp; Other Inc</b>	
Dividend	66,448.43
Interest	109,507.92
Other Income	4.17
<b>Total Interest, Dividend, &amp; Other Inc</b>	<u>175,960.52</u>
<b>Investment Income</b>	
Gains/(Losses) - All	760,587.89
Increase(Decrease) in FV	634,388.26
<b>Total Investment Income</b>	<u>1,394,976.15</u>
<b>RT Required Contribution</b>	
Employee Contributions	6,519.59
RT Required Contribution - Other	782,498.09
<b>Total RT Required Contribution</b>	<u>789,017.68</u>
<b>Total Income</b>	<u>2,359,954.35</u>
<b>Cost of Goods Sold</b>	
IBEW - Retirement Benefits Paid	797,854.28
Invest Exp - AQR	3,543.43
Invest Exp - Atlanta Capital	8,245.97
Invest Exp - Boston Partners	10,145.37
Invest Exp - Callan	5,749.15
Invest Exp - EAFE - SSgA	424.59
Invest Exp - JP Morgan	7,372.59
Invest Exp - Metropolitan West	11,281.00
Invest Exp - S&P Index - SSgA	0.00
Invest Exp - State Street	987.44
<b>Total COGS</b>	<u>845,603.82</u>
<b>Gross Profit</b>	<u>1,514,350.53</u>
<b>Expense</b>	
Admin Exp - Administrator	22,820.94
Admin Exp - EFI	4,448.75
Admin Exp - Fiduciary Insurance	1,956.75
Admin Exp - Hanson Bridgett Leg	12,217.47
Admin Exp - Shipping	1.57
Miscellaneous	40.15
<b>Total Expense</b>	<u>41,485.63</u>
<b>Net Income</b>	<u><u>1,472,864.90</u></u>

**Sacramento Regional Transit District Retirement Plan - IBEW**  
**Statement of Changes in Fiduciary Net Position**

Accrual Basis

July through September 2016

	Jul - Sep 16
<b>Income</b>	
<b>Interest, Dividend, &amp; Other Inc</b>	
Dividend	66,448.43
Interest	109,507.92
Other Income	4.17
<b>Total Interest, Dividend, &amp; Other Inc</b>	175,960.52
<b>Investment Income</b>	
Gains/(Losses) - All	760,587.89
Increase(Decrease) in FV	634,388.26
<b>Total Investment Income</b>	1,394,976.15
<b>RT Required Contribution</b>	
Employee Contributions	6,519.59
RT Required Contribution - Other	782,498.09
<b>Total RT Required Contribution</b>	789,017.68
<b>Total Income</b>	2,359,954.35
<b>Cost of Goods Sold</b>	
IBEW - Retirement Benefits Paid	797,854.28
Invest Exp - AQR	3,543.43
Invest Exp - Atlanta Capital	8,245.97
Invest Exp - Boston Partners	10,145.37
Invest Exp - Callan	5,749.15
Invest Exp - EAFE - SSgA	424.59
Invest Exp - JP Morgan	7,372.59
Invest Exp - Metropolitan West	11,281.00
Invest Exp - S&P Index - SSgA	0.00
Invest Exp - State Street	987.44
<b>Total COGS</b>	845,603.82
<b>Gross Profit</b>	1,514,350.53
<b>Expense</b>	
Admin Exp - Administrator	22,820.94
Admin Exp - EFI	4,448.75
Admin Exp - Fiduciary Insurance	1,956.75
Admin Exp - Hanson Bridgett Leg	12,217.47
Admin Exp - Shipping	1.57
Miscellaneous	40.15
<b>Total Expense</b>	41,485.63
<b>Net Income</b>	1,472,864.90



**Sacramento Regional Transit District**  
**Retirement Fund - IBEW**  
**Schedule of Cash Activities**  
**For the Three Months Period Ended September 30, 2016**

	July 2016	August 2016	September 2016	Quarter Totals
Beginning Balance:				
Due (from)/to District - June 30, 2016	54,903.78	58,149.85	75,750.74	54,903.78
Monthly Activity:				
<u>Deposits</u>				
District Pension Contributions @ 22.60 to 27.10%	254,122.95	267,020.94	261,354.20	782,498.09
Employee Pension Contributions	1,918.01	2,320.76	2,280.82	6,519.59
Total Deposits	256,040.96	269,341.70	263,635.02	789,017.68
<u>Expenses</u>				
Payout to Retirees:				
IBEW	(264,970.19)	(268,095.37)	(264,788.72)	(797,854.28)
Payout to Retirees Subtotal	(264,970.19)	(268,095.37)	(264,788.72)	(797,854.28)
Fund Investment Management Expenses:				
Atlanta Capital	(8,126.03)	-	-	(8,126.03)
Metropolitan West	(11,219.16)	-	-	(11,219.16)
Boston Partners	(9,865.51)	-	-	(9,865.51)
JPMorgan	(7,011.08)	-	-	(7,011.08)
SSgA S&P 500 Index	(932.46)	-	-	(932.46)
SSgA EAFE MSCI	(975.57)	-	-	(975.57)
Callan	(1,841.78)	-	(3,832.13)	(5,673.91)
State Street	(1,980.10)	-	994.69	(985.41)
Fund Invest. Mgmt Exp. Subtotal	(41,951.69)	0.00	(2,837.44)	(44,789.13)
Administrative Expenses				
Cheiron	(1,493.55)	-	(4,448.75)	(5,942.30)
Fiduciary Insurance	-	(7,827.01)	-	(7,827.01)
Shipping	-	(1.57)	-	(1.57)
Hanson Bridgett Legal Services	-	(2,702.40)	(7,148.08)	(9,850.48)
Pension Administration	(5,775.38)	(8,316.24)	(8,729.32)	(22,820.94)
Miscellaneous	-	-	(40.15)	(40.15)
Administrative Exp. Subtotal	(7,268.93)	(18,847.22)	(20,366.30)	(46,482.45)
Total Expenses	(314,190.81)	(286,942.59)	(287,992.46)	(889,125.86)
Monthly Net Owed from/(to) District	(58,149.85)	(17,600.89)	(24,357.44)	(100,108.18)
Payment from/(to) the District	(54,903.78)	-	(75,750.74)	(130,654.52)
Ending Balance:				
Due (from)/to the District (=Beginning balance + monthly balance-payment to District)	58,149.85	75,750.74	24,357.44	24,357.44

**RT Combined Pension Plans - ATU, IBEW and Salaried  
Asset Allocation \***  
As of 9/30/2016

Asset Class	Net Asset Market Value 09/30/2016	Actual Asset Allocation	Target Asset Allocation	% Variance	\$ Variance	Target Market Value
<b>FUND MANAGERS:</b>						
<b>Domestic Equity:</b>						
Large Cap Value - Boston Partners - Z8	\$ 40,706,870	16.18%	16.00%	0.18%	\$ 445,138	
Large Cap Growth - SSgA S&P 500 Index - XH	41,641,404	16.55%	16.00%	0.55%	1,379,672	
<b>Total Large Cap Domestic Equity</b>	<b>82,348,273</b>	<b>32.73%</b>	<b>32.00%</b>	<b>0.73%</b>	<b>1,824,810</b>	<b>\$ 80,523,463</b>
<b>Small Cap - Atlanta Capital - XB</b>	<b>22,260,244</b>	<b>8.85%</b>	<b>8.00%</b>	<b>0.85%</b>	<b>2,129,378</b>	<b>20,130,866</b>
<b>International Equity:</b>						
<b>Large Cap Growth:</b>						
JPMorgan - Z9	23,098,150	9.18%	9.50%	-0.32%	(807,253)	
<b>Large Cap Core:</b>						
SSgA MSCI EAFE - XG	9,248,743	3.68%				
Value - Brandes - XE	9,292	0.00%				
<b>Total Core</b>	<b>9,258,036</b>	<b>3.68%</b>	<b>4.50%</b>	<b>-0.82%</b>	<b>(2,065,576)</b>	
<b>Small Cap:</b>						
AQR - ZB	12,401,657	4.93%	5.00%	-0.07%	(180,134)	
<b>Emerging Markets</b>						
DFA - ZA	13,678,752	5.44%	6.00%	-0.56%	(1,419,398)	
<b>Total International Equity</b>	<b>58,436,594</b>	<b>23.22%</b>	<b>25.00%</b>	<b>-1.78%</b>	<b>(4,472,361)</b>	<b>62,908,955</b>
<b>Fixed Income:</b>						
Met West - XD	88,590,711	35.21%	35.00%	0.21%	518,174	88,072,538
<b>Total Combined Net Asset</b>	<b>\$ 251,635,822</b>	<b>100.00%</b>	<b>100.00%</b>	<b>0.00%</b>	<b>\$ 1</b>	<b>\$ 251,635,822</b>

Asset Allocation Policy Ranges*:	Minimum	Target	Maximum
<b>Domestic Equity</b>	<b>35%</b>	<b>40%</b>	<b>45%</b>
Large Cap (50/50 value/growth)	28%	32%	36%
Small Cap	5%	8%	11%
<b>International Equity</b>	<b>20%</b>	<b>25%</b>	<b>30%</b>
Large Cap Developed Markets	10%	14%	18%
Small Cap Developed Markets	3%	5%	7%
Emerging Markets	4%	5%	8%
<b>Domestic Fixed Income</b>	<b>30%</b>	<b>35%</b>	<b>40%</b>

\* Per the Statement of Investment Objectives and Policy Guidelines as of 6/15/2016.

**Reconciliation between Callan Report  
and  
Consolidated Pension Fund Balance Sheet  
As of September 30, 2016**

<b>Per Both Pension Fund Balance Sheets:</b>	
ATU Allocated Custodial Assets	126,805,717
IBEW Allocated Custodial Assets	46,607,826
Salaried Allocated Custodial Assets	<u>78,222,179</u>
<b>Total Consolidated Net Asset</b>	<u><u>251,635,722</u></u>
<b>Per Callan Report:</b>	
Total Investments	<u><u>251,634,977</u></u>
<b>Net Difference</b>	<u><u>745</u></u> *

\* The "Net Difference" amounts shown are the results of Callan and State Street using different valuations for the same securities.

**Reconciliation between Callan Report  
and  
Consolidated Pension Fund Income Statement  
For the Quarter Ended September 30, 2016**

<b>Per Both Pension Fund Income Statements:</b>	
ATU - Interest, Dividends, and Other Income	470,588
ATU - Investment Income	3,815,678
IBEW - Interest, Dividends, and Other Income	172,418
IBEW - Investment Income	1,394,976
Salaried - Interest, Dividends, and Other Income	285,419
Salaried - Investment Income	<u>2,402,483</u>
<b>Total Investment Income</b>	<u><u>8,541,562</u></u>
<b>Per Callan Report:</b>	
Investment Returns	<u><u>8,543,522</u></u>
<b>Net Difference</b>	<u><u>(1,960)</u></u> **

\*\* The "Net Difference" amounts shown are the results of Callan and State Street using different valuations for the same securities.

**Reconciliation between Callan Report  
and  
Consolidated Schedule of Cash Activities  
For the Quarter Ended September 30, 2016**

	<u>July</u>	<u>August</u>	<u>September</u>	<u>Total</u>
<b>Payments from/(to) the District</b>				
S&P 500 Index - ATU	-	-	(563,941)	(563,941)
S&P 500 Index - IBEW	-	-	(75,751)	(75,751)
S&P 500 Index - Salaried	-	-	102,128	102,128
Atlanta Capital - ATU	(234,429)	-	-	(234,429)
Atlanta Capital - IBEW	(25,776)	-	-	(25,776)
EAFE - ATU	(6,178,332)	-	-	(6,178,332)
EAFE - IBEW	(2,258,554)	-	-	(2,258,554)
EAFE - Salaried	(3,764,715)	-	-	(3,764,715)
AQR - ATU	6,178,332	-	-	6,178,332
AQR - IBEW	2,258,554	-	-	2,258,554
AQR - Salaried	3,764,715	-	-	3,764,715
DFA - Salaried	137,839	-	-	137,839
Metropolitan West - ATU	(248,710)	-	-	(248,710)
Metropolitan West - IBEW	(29,127)	-	-	(29,127)
<b>Total Payments from/(to) the District</b>	<u>(400,203)</u>	<u>-</u>	<u>(537,564)</u>	<u>(937,767)</u>
<b>Transfers In/(Out) of Investment Funds</b>				
S&P 500 Index	-	-	(537,564)	(537,564)
Atlanta Capital	(260,205)	-	-	(260,205)
EAFE	(12,201,601)	-	-	(12,201,601)
AQR	12,201,601	-	-	12,201,601
DFA	137,839	-	-	137,839
Metropolitan West	(277,837)	-	-	(277,837)
<b>Total Transfers In/(Out) of Investment Funds</b>	<u>(400,203)</u>	<u>-</u>	<u>(537,564)</u>	<u>(937,767)</u>
<b>Variance between Payments and Transfers</b>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
<b>Per Callan Report:</b>				
Net New Investment/(Withdrawals)				<u>(937,767)</u>
<b>Net Difference</b>				<u>-</u>

**Consolidated Schedule of Cash Activities  
For the 12-Months September 30, 2016**

	<u>4Q15</u>	<u>1Q16</u>	<u>2Q16</u>	<u>3Q16</u>	<u>Total</u>
<b>Payments from/(to) the District</b>					
S&P 500 Index - ATU/IBEW	(629,754)	-	-	-	(629,754)
S&P 500 Index - ATU				(563,941)	(563,941)
S&P 500 Index - IBEW				(75,751)	(75,751)
S&P 500 Index - Salaried	(85,930)	-	-	102,128	16,198
Atlanta Capital - ATU/IBEW	-	-	(450,701)	-	(450,701)
Atlanta Capital - ATU				(234,429)	(234,429)
Atlanta Capital - IBEW				(25,776)	(25,776)
EAFE - ATU				(6,178,332)	(6,178,332)
EAFE - IBEW				(2,258,554)	(2,258,554)
EAFE - Salaried	-	-	-	(3,764,715)	(3,764,715)
AQR - ATU				6,178,332	6,178,332
AQR - IBEW				2,258,554	2,258,554
AQR - Salaried				3,764,715	3,764,715
DFA - Salaried	166,206	189,655	262,195	137,839	755,895
Metropolitan West - ATU/IBEW	(266,918)	(639,700)	(496,034)	-	(1,402,652)
Metropolitan West - ATU				(248,710)	(248,710)
Metropolitan West - IBEW				(29,127)	(29,127)
<b>Total Payments from/(to) the District</b>	<u>(816,396)</u>	<u>(450,045)</u>	<u>(684,540)</u>	<u>(937,767)</u>	<u>(2,888,748)</u>

**Sacramento Regional Transit District**  
**ATU, IBEW and Salaried Retirement Plans**  
**Schedule of Fund Investment Returns and Expenses**  
**09/30/16**

	1 Year		1 Year			3 Years		3 Years		
	Net of Fees Returns	Bench-Mark Returns	Net of Fees Returns	Bench-Mark Returns	Favorable/(Unfavor) Basis Pts	Net of Fees Returns	Bench-Mark Returns	Favorable/(Unfavor) Basis Pts		
<b>Boston Partners</b>										
Investment Returns	4,015,027	100.00%				8,773,410	100.00%			
Investment Expenses	(213,034)	5.31%				(632,298)	7.21%			
Net Gain/(Loss)	3,801,993	94.69%	10.34%	16.20%	(586.00)	8,141,112	92.79%	7.51%	9.70%	(219.00)
<b>S&amp;P 500</b>										
Investment Returns	5,717,051	100.00%				12,193,088	100.00%			
Investment Expenses	(51,373)	0.90%				(89,481)	0.73%			
Net Gain/(Loss)	5,665,678	99.10%	15.45%	15.43%	2.00	12,103,607	99.27%	11.17%	11.16%	1.00
<b>Atlanta Capital</b>										
Investment Returns	3,191,533	100.00%				5,920,099	100.00%			
Investment Expenses	(172,917)	5.42%				(485,400)	8.20%			
Net Gain/(Loss)	3,018,616	94.58%	15.41%	15.47%	(6.00)	5,434,699	91.80%	9.24%	6.71%	253.00
<b>JPMorgan</b>										
Investment Returns	1,910,021	100.00%				285,175	100.00%			
Investment Expenses	(153,130)	8.02%				(466,491)	163.58%			
Net Gain/(Loss)	1,756,891	91.98%	8.26%	6.52%	174.00	(181,316)	-63.58%	0.11%	0.48%	(37.00)
<b>EAFE</b>										
Investment Returns	977,301	100.00%				(111,367)	100.00%			
Investment Expense	(18,019)	1.84%				(59,687)	-53.59%			
Net Gain/(Loss)	959,282	98.16%	6.77%	6.52%	25.00	(171,054)	153.59%	0.66%	0.48%	18.00
<b>Brandes</b>										
Investment Returns	(2,050)	100.00%				(3,517)	100.00%			
Investment Expenses	-	0.00%				-	0.00%			
Net Gain/(Loss)	(2,050)	100.00%	N/A	N/A	N/A	(3,517)	100.00%	N/A	N/A	N/A
<b>AQR</b>										
Investment Returns	219,202	100.00%				219,202	100.00%			
Investment Expenses	(19,142)	8.73%				(19,142)	8.73%			
Net Gain/(Loss)	200,060	91.27%	N/A	N/A	N/A	200,060	91.27%	N/A	N/A	N/A
<b>DFA</b>										
Investment Returns	2,067,659	100.00%				136,894	100.00%			
Investment Expense	(80,148)	3.88%				(225,691)	164.87%			
Net Gain/(Loss)	1,987,511	96.12%	18.08%	17.21%	87.00	(88,797)	-64.87%	0.50%	-0.21%	71.00
<b>Metropolitan West</b>										
Investment Returns	4,361,233	100.00%				10,741,113	100.00%			
Investment Expenses	(239,907)	5.50%				(740,091)	6.89%			
Net Gain/(Loss)	4,121,326	94.50%	4.85%	5.19%	(34.00)	10,001,022	93.11%	3.81%	4.03%	(22.00)
<b>Total Fund</b>										
Investment Returns	22,456,977	100.00%				38,154,097	100.00%			
Investment Expenses	(947,670)	4.22%				(2,718,281)	7.12%			
Net Gain/(Loss)	21,509,307	95.78%	9.33%	10.46%	(113.00)	35,435,816	92.88%	5.14%	5.59%	(45.00)

CPI: 1.46%  
Core CPI: 2.21%

1.04%  
1.98%

**Sacramento Regional Transit District  
Schedule of Transfers and Retirements  
For the Time Period: July 1, 2016 to September 30, 2016**

**Transfers:**

Employee #	Transferred From Position	Transferred To Position	Transferred From ATU//IBEW	Tranferred To ATU//IBEW	Plan Assets Transferred To/(From) Salaried Plan	Plan Assets Transferred To/(From) ATU//IBEW Plan
None to report						

**Retirements:**

Employee #	Previous Position	Pension Group	Retirement Date
2235	Facilities Maintenance Mechanic	IBEW	07/01/2016
2776	Purchasing & Materials Administrator	MCEG	07/01/2016
1532	Administrative Supervisor	AFSC	07/01/2016
3395	IT Project Coordinator	AFST	07/01/2016
3098	Engineering Technician	AEAS	07/01/2016
3929	(QDRO)	MCEG	07/01/2016
1557	Director, Facilities	MCEG	07/01/2016
2737	Director, Safety	MCEG	07/01/2016
2731	IT Technician II	AFST	07/01/2016
1374	Sr. Procurement Analyst	AEAS	07/01/2016
2755	Assistant Resident Engineer	AEAS	07/01/2016
2805	Assistant Architect	AEAS	07/01/2016
1013	Assistant Planner	AEAS	07/01/2016
1180	Service Analyst	AEAS	07/01/2016
2881	Bus Operator	ATUL	07/22/2016
1093	Administrative Assistant II	MCEG	08/01/2016
1680	Director, Procurement Services	MCEG	08/01/2016
1626	General Manager/CEO	MCEG	08/01/2016
495	Bus Operator	ATUL	08/02/2016
3059	CBS Operator	ATUL	08/19/2016
552	Light Rail Operator	ATUL	08/28/2016
2727	Bus Service Worker	IBEW	09/01/2016
2464	Bus Operator	ATUL	09/07/2016
2578	Bus Operator	ATUL	09/07/2016
866	Clerk II	ATUL	09/16/2016

# REGIONAL TRANSIT ISSUE PAPER

Agenda Item No.	Board Meeting Date	Open/Closed Session	Information/Action Item	Issue Date
16	12/14/16	Retirement	Information	10/05/16

Subject: Investment Performance Review by Dimensional Fund Advisors (DFA) for the ATU, IBEW and Salaried Retirement Funds for the International Emerging Markets Asset Class for the Quarter Ended September 30, 2016 (ALL). (Bernegger)

## ISSUE

Investment Performance Review by Dimensional Fund Advisors (DFA) for the ATU, IBEW and Salaried Retirement Funds for the International Emerging Markets Asset Class for the Quarter Ended September 30, 2016 (ALL). (Bernegger)

## RECOMMENDED ACTION

Information only.

## FISCAL IMPACT

None

## DISCUSSION

Retirement funds are invested consistent with the Statement of Investment Objectives and Policy Guidelines (Policy) adopted by each Retirement Board (Board). The Board shall meet at least every eighteen (18) months with each investment manager to review the performance of its investment, the adherence to the Policy, and any material changes to its organization. The Policy also establishes the Retirement Funds' asset allocation policy and the asset classes in which the Plans funds are invested. The asset classes established by the Policy are (1) Domestic Large Capitalization Equity, (2) Domestic Small Capitalization Equity, (3) International Large Capitalization Equity, (4) International Small Capitalization Equity, (5) International Emerging Markets, and (6) Domestic Fixed-Income.

DFA is the Retirement Boards' International Emerging Markets fund manager. DFA will be presenting performance results for the quarter ended September 30, 2016, shown in Attachment 1, and answering any questions.

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Approved:

Presented:

FINAL 11/22/2016

Chief Financial Officer, Acting

Senior Accountant

# Sacramento Regional Transit District Pension Funds

December 14, 2016

Ted Simpson, CFA, Vice President

This information is provided for registered investment advisors and institutional investors and is not intended for public use.

Dimensional Fund Advisors LP is an investment advisor registered with the Securities and Exchange Commission.

**Consider the investment objectives, risks, and charges and expenses of the Dimensional funds carefully before investing. For this and other information about the Dimensional funds, please read the prospectus carefully before investing. Prospectuses are available by calling Dimensional Fund Advisors collect at (512) 306-7400 or at [us.dimensional.com/prospectus](http://us.dimensional.com/prospectus).**

Dimensional funds are distributed by DFA Securities LLC.



# Relationship Summary: Sacramento Regional Transit District Pension Funds

## Investment Summary

As of October 31, 2016

Market Value

<b>EMERGING MARKETS CORE EQUITY PORTFOLIO</b>	<b>\$13,693,635</b>
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## Statement of Asset Changes

The following changes took place in the Retirement Plan for Sacramento Regional Transit District Employees account for the period of November 1, 2015 to October 31, 2016:

	Starting Balance 11/01/2015	Contributions	Withdrawals	Appreciation/ (Depreciation) <sup>1</sup>	Ending Balance 10/31/2016
<b>EMERGING MARKETS CORE EQUITY PORTFOLIO</b>	<b>\$11,570,678</b>	<b>\$658,995</b>	<b>—</b>	<b>\$1,463,962</b>	<b>\$13,693,635</b>

Performance data shown represents past performance and is no guarantee of future results. Current performance may be higher or lower than the performance shown. The investment return and principal value of an investment will fluctuate so that an investor's shares, when redeemed, may be worth more or less than their original cost. To obtain the most current month-end performance data, visit [us.dimensional.com](http://us.dimensional.com).

1. Includes dividends, interest, and realized/unrealized gains and losses.

See "Appendix: Standardized Performance Data & Disclosures" to learn how to obtain complete information on performance, investment objectives, risks, advisory fees, and expenses of Dimensional's funds.

# Agenda

1. Dimensional
2. Investment Philosophy
3. Emerging Markets Core Equity Portfolio
4. Appendix

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Dimensional

# Firm Update

As of September 30, 2016

## Organizational Updates

- More than 1,000 employees firmwide; \$445 billion in assets under management.
  - Dimensional Chairman and Co-CEO David Booth received the “Manager Lifetime Achievement” award from *Institutional Investor*. The magazine described David as a leader who “shaped Dimensional into a manager that refined academic theories and applied them so investors could profit in the real world.”
- 

## Upcoming Events

- Institutional Luncheon: March 2017 (San Francisco)
  - Investment Forum: Summer 2017 (Santa Monica)
  - Institutional Symposium: April 24-26, 2017 (Austin)
- 

## Recently Published Articles

- *Capturing Value: Why Less Can Be More*—Many different variables have been suggested as measures of relative price. The evidence suggests that earnings-to-price, cash flow-to-price, sales-to-price, or a blend of these metrics do not contain additional information about expected returns beyond that contained in book-to-market and profitability.
- *Relative Price and Expected Stock Returns in International Markets*—The weak performance of the value premium observed across regions outside the US over the past decade is most likely the result of normal levels of volatility in the realized premium.
- *The Value of Aligning Investments and Risk Management to Your Goals*—A primary goal of retirement planning is to provide consumption in retirement using accumulated savings. A key risk is uncertainty about how much consumption can be sustained. Managing this uncertainty requires measuring investment performance in units aligned with the goal.
- *The US Department of Treasury and Corporate Bond Liquidity*—A 2015 paper by Dimensional concluded there was no convincing evidence of a reduction in liquidity in the corporate bond market and that the market is evolving to overcome its dependence on the traditional dealer model. The US Department of the Treasury recently reached a similar conclusion.

# Dimensional Fund Advisors

Putting financial science to work for clients

We use information in market prices throughout our investment process to build solutions that pursue higher expected returns.

---

We add value by identifying relevant dimensions of expected returns and continually balancing the tradeoffs among competing premiums, diversification, and costs.

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We work with clients to understand their long-term needs and to add to their success.

# Leading Financial Economists and Researchers

## Academics on Dimensional Fund Advisors LP's Board

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**Eugene Fama<sup>1</sup>, PhD, Nobel laureate** University of Chicago

**Kenneth French<sup>1</sup>, PhD** Dartmouth College

## Academics Who Serve as Independent Directors on Dimensional's US Mutual Fund Board<sup>2</sup>

---

**George Constantinides, PhD** University of Chicago

**John Gould, PhD** University of Chicago

**Edward Lazear, PhD** Stanford University

**Roger Ibbotson, PhD** Yale University

**Myron Scholes, PhD, Nobel laureate** Stanford University

**Abbie Smith, PhD** University of Chicago

## Academics Providing Ongoing Consulting Services to Dimensional

---

**Robert Merton<sup>1</sup>, PhD, Nobel laureate** Massachusetts Institute of Technology

**Robert Novy-Marx, PhD** University of Rochester

**Sunil Wahal, PhD** Arizona State University

## Leaders of Dimensional's<sup>3</sup> Internal Research Staff

---

**Eduardo Repetto, PhD**, Director, Co-Chief Executive Officer, and Co-Chief Investment Officer

**Gerard O'Reilly, PhD**, Co-Chief Investment Officer and Head of Research

**Stanley Black, PhD**, Vice President

**Wes Crill, PhD**, Vice President

**James Davis, PhD**, Vice President

**Massi De Santis, PhD**, Vice President

**Marlena Lee, PhD**, Vice President

**Savina Rizova, PhD**, Vice President

**Dave Twardowski, PhD**, Vice President

As of September 30, 2016.

1. Provide consulting services to Dimensional Fund Advisors LP.

2. "Dimensional's US Mutual Fund Board" refers to The DFA Investment Trust Company, DFA Investment Dimensions Group Inc., Dimensional Investment Group Inc. and Dimensional Emerging Markets Value Fund Inc.

3. "Dimensional" refers to the Dimensional separate but affiliated entities generally, rather than to one particular entity. These entities are Dimensional Fund Advisors LP, Dimensional Fund Advisors Ltd., DFA Australia Limited, Dimensional Fund Advisors Canada ULC, Dimensional Fund Advisors Pte. Ltd., and Dimensional Japan Ltd.

# Experienced Teams Help Ensure Consistency

High degree of practitioners' knowledge and experience across market cycles

## Investment Committee<sup>1</sup>

Average 23 Years of Industry Experience

**David Booth**, Chairman and Co-Chief Executive Officer

**Eduardo Repetto**, Director, Co-Chief Executive Officer, and Co-Chief Investment Officer

**Joseph Chi**, Investment Committee Chairman and Co-Head of Portfolio Management

**Robert Deere**, Investment Director and Senior Portfolio Manager

**Jed Fogdall**, Co-Head of Portfolio Management

**Henry Gray**, Head of Global Equity Trading

**Joseph Kolerich**, Senior Portfolio Manager

**Gerard O'Reilly**, Co-Chief Investment Officer and Head of Research

**David Plecha**, Global Head of Fixed Income

**Karen Umland**, Head of Investment Strategies Group and Senior Portfolio Manager

## Portfolio Management

Average 13 Years of Industry Experience

### Austin

**Jed Fogdall**, Co-Head of Portfolio Management

**Senior Portfolio Managers:**  
Arun Keswani, Joseph Kolerich, Mary Phillips, Joel Schneider, Lukas Smart

**Portfolio Managers:**  
William Collins-Dean, Emily Cornell, Gavin Crabb, Damian Dormer, Joseph Hohn, Alan Hutchison, Pamela Noble, Althea Trevor

### Charlotte

**Portfolio Managers:**  
Marcus Axthelm, David Kershner, Travis Meldau

### Santa Monica

**Joseph Chi**, Co-Head of Portfolio Management

**Robert Deere**, Investment Director and Senior Portfolio Manager

**David Plecha**, Global Head of Fixed Income

**Senior Portfolio Managers:**  
Daniel Ong, Allen Pu, Grady Smith, Karen Umland

**Portfolio Managers:**  
Mitch Firestein, John Hertzler, David Shao, Brian Walsh

### London

**Arthur Barlow**, Chairman, Managing Director, and Senior Portfolio Manager

Nathan Lacaze, Senior Portfolio Manager

**Portfolio Managers:**  
Paul Foley, Alexander Fridman, Didier Haenecour, Adam Ward, Jim Whittington, Joy Yang

### Sydney

**Bhanu Singh**, Head of Asia Pacific Portfolio Management and Senior Portfolio Manager

Robert Ness, Senior Portfolio Manager

**Portfolio Managers:**  
Murray Cockerell, Stephen Garth, Slava Platkov, David Quinn, Gillian Wilson, Craig Wright

### Singapore

**Portfolio Managers:**  
Jason Ha, Stephen Quance

### Tokyo

Kotaro Hama, Portfolio Manager

## Trading

Average 13 Years of Industry Experience

### Austin

**Senior Traders:** David LaRusso, Christian Gunther, Christopher Rink, Scott Van Pelt

**Traders:** Joel Mitter, Erhan Oktay, Robert Richardson, Elizabeth Van Pelt

### Charlotte

**Senior Traders:** Richard Mar, Polly Weiss

### Santa Monica

**Henry Gray**, Head of Global Equity Trading

**Ryan Wiley**, Head of Americas Trading

Le Tran, Senior Trader

Claudette Higdon, Trader

### London

**John Romiza**, Head of International Trading

Mark Butterworth, Senior Trader

**Traders:** William Letheren, Frances Ritter, James Simpson, Archit Soni

### Sydney

**Jason Lapping**, Head of Asia Pacific Trading

Sam Willis, Senior Trader

**Traders:** Jian Du, David Vrolyk

### Singapore

**Traders:** Jonathan Smith, Hayato Yonemori

As of September 30, 2016.

1. Dimensional Fund Advisors LP Investment Committee.

Locations with offices operated by Dimensional. "Dimensional" refers to the Dimensional entities generally, rather than to one particular entity. These entities are Dimensional Fund Advisors LP, Dimensional Fund Advisors Ltd., DFA Australia Limited, Dimensional Fund Advisors Canada ULC, Dimensional Fund Advisors Pte. Ltd., and Dimensional Japan Ltd.

# Global Investment Team, One Dynamic Process

- Investment Personnel
- Client Service

Founded in 1981



\$445B in global AUM

More than 1,000 employees globally



# Dimensional Global Investment Solutions

\$445 billion in global AUM as of September 30, 2016

(in billions)

US	\$151.1
All Cap Core	\$47.1
All Cap Value	\$5.6
Growth	\$1.4
Large Cap	\$14.4
Large Cap Value	\$23.6
SMID Cap Value	\$14.6
Small Cap	\$20.0
Small Cap Value	\$17.6
Micro Cap	\$6.9

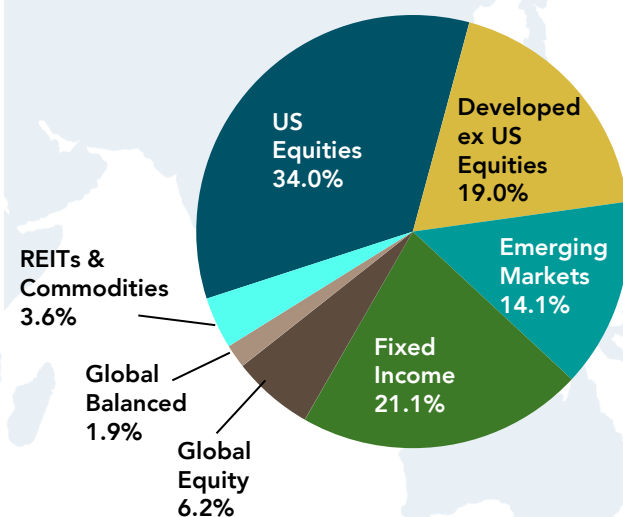
Emerging Markets	\$62.6
All Cap Core	\$23.5
Value	\$27.4
Large Cap	\$6.0
Small Cap	\$5.8

Global Equity	\$27.7
All Cap/Large Cap	\$18.5
Value	\$6.6
Small/SMID Cap	\$2.6

Developed ex US	\$84.5
All Cap Core	\$24.0
All Cap Value	\$3.6
Growth	\$0.4
Large Cap	\$7.0
Large Cap Value	\$17.2
Small Cap	\$16.8
Small Cap Value	\$15.5

Other	\$24.8
Real Estate	\$14.6
Commodities	\$1.5
Global Balanced	\$8.4
Target Date	\$0.3

Fixed Income	\$93.9
US	\$51.5
US Tax-Exempt	\$5.2
Non-US & Global	\$32.7
Inflation-Protected	\$4.5



"Dimensional" refers to the Dimensional separate but affiliated entities generally, rather than to one particular entity. These entities are Dimensional Fund Advisors LP, Dimensional Fund Advisors Ltd., DFA Australia Limited, Dimensional Fund Advisors Canada ULC, Dimensional Fund Advisors Pte. Ltd., and Dimensional Japan Ltd. All assets in US dollars. Numbers may not total 100% due to rounding.

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# Investment Philosophy

# Dimensions of Expected Returns

Expected returns are driven by prices investors pay and cash flows they expect to receive

## DIMENSIONS POINT TO SYSTEMATIC DIFFERENCES IN EXPECTED RETURNS



To be considered a dimension of expected return, a premium must be:

- Sensible
- Persistent
- Pervasive
- Robust
- Cost-effective

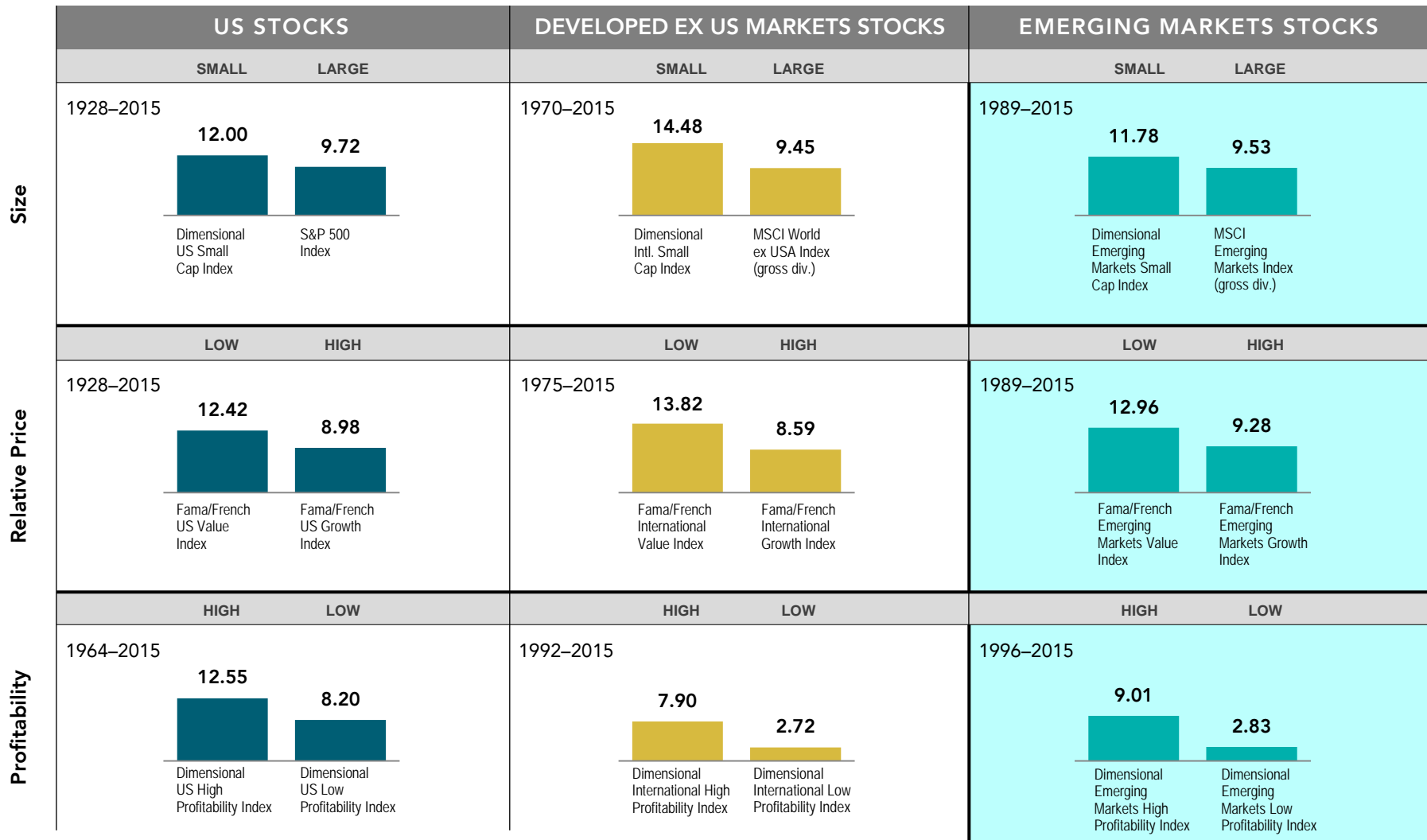
Diversification does not eliminate the risk of market loss.

1. Relative price as measured by the price-to-book ratio; value stocks are those with lower price-to-book ratios.

2. Profitability is a measure of current profitability, based on information from individual companies' income statements.

# Dimensions of Expected Returns

Illustrative index performance: Annualized compound returns (%) in US dollars



Profitability is measured as operating income before depreciation and amortization minus interest expense scaled by book.

Indices are not available for direct investment. Their performance does not reflect the expenses associated with the management of an actual portfolio. Past performance is not a guarantee of future results. Index returns are not representative of actual portfolios and do not reflect costs and fees associated with an actual investment. Actual returns may be lower. See "Index Descriptions" in the appendix for descriptions of Dimensional and Fama/French index data. Eugene Fama and Ken French are members of the Board of Directors for and provide consulting services to Dimensional Fund Advisors LP. The S&P data are provided by Standard & Poor's Index Services Group. MSCI data © MSCI 2016, all rights reserved.

# Yearly Observations of Premiums

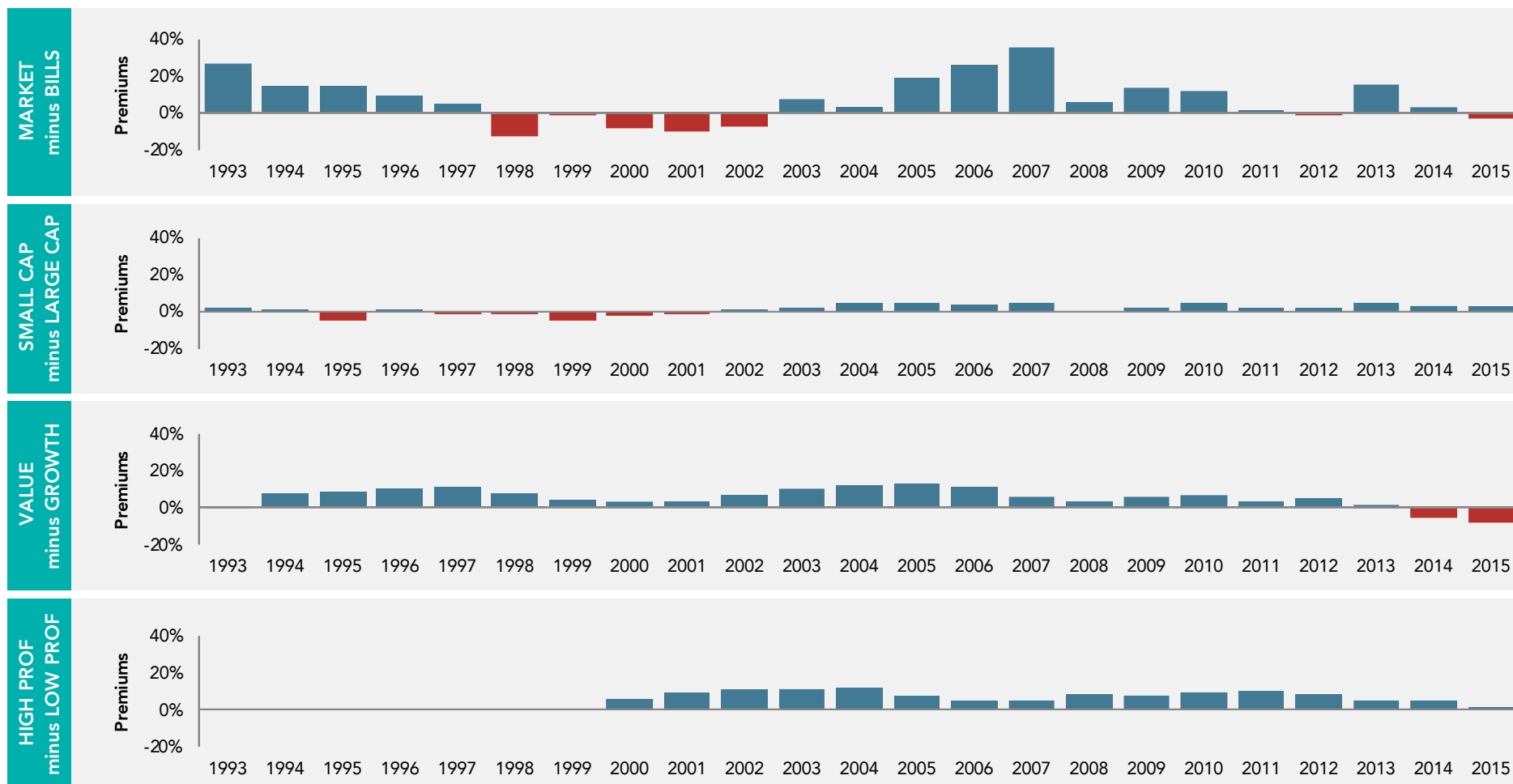
Equity, size, relative price, and profitability: Emerging Markets



Equity premium: Fama/French Emerging Markets Index minus one-month US Treasury Bills. Size premium: Dimensional Emerging Markets Small Cap Index minus MSCI Emerging Markets Index (gross dividends). Relative price premium: Fama/French Emerging Markets Value Index minus Fama/French Emerging Markets Growth Index. Profitability premium: Dimensional Emerging Markets High Profitability Index minus the Dimensional Emerging Markets Low Profitability Index. Profitability is measured as operating income before depreciation and amortization minus interest expense, scaled by book. Dimensional indices use Bloomberg data. Fama/French indices provided by Ken French. MSCI data copyright MSCI 2016, all rights reserved. Index descriptions available upon request. Eugene Fama and Ken French are members of the Board of Directors for and provide consulting services to Dimensional Fund Advisors LP. **Indices are not available for direct investment. Their performance does not reflect the expenses associated with the management of an actual portfolio. Past performance is no guarantee of future results.**

# Historical Observations of Five-Year Premiums

Equity, size, relative price, and profitability: Emerging Markets



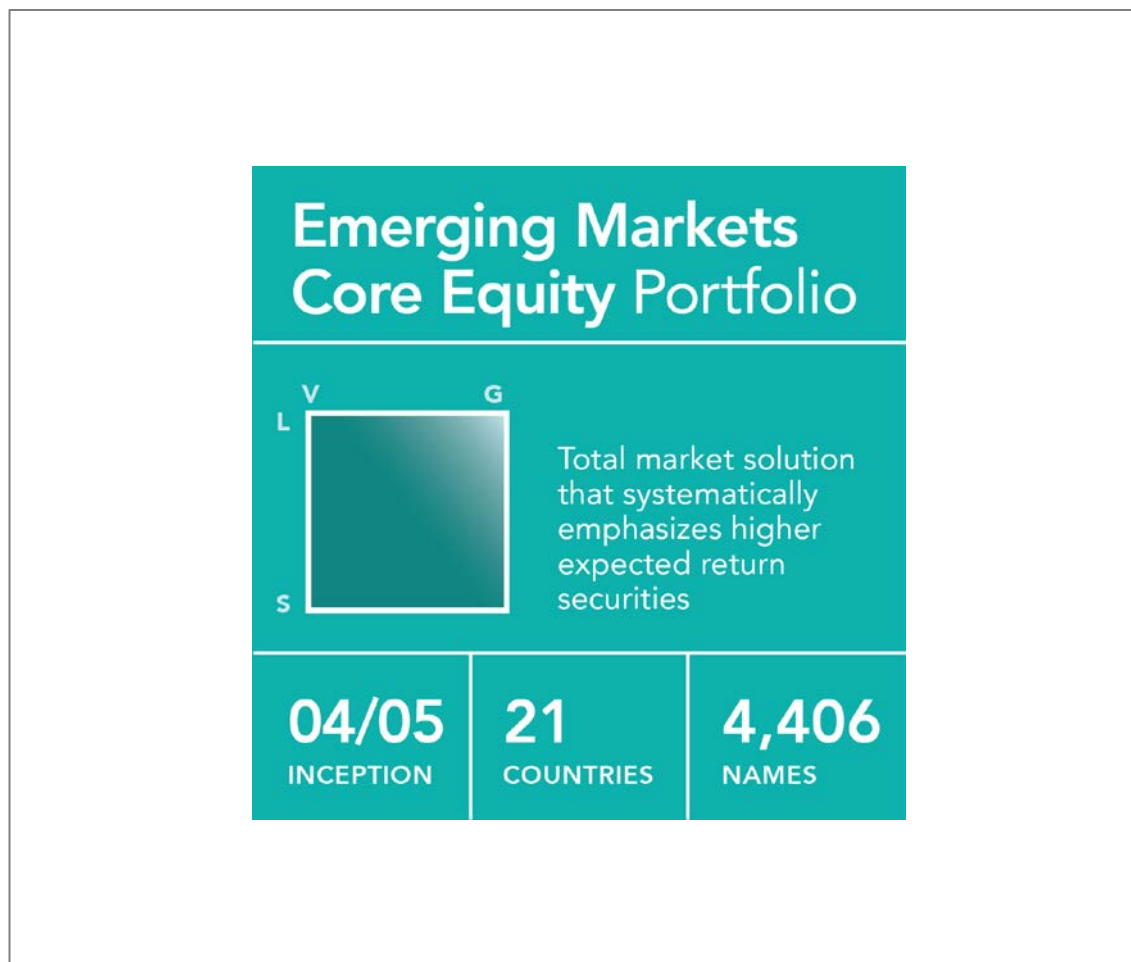
Five-year rolling equity premium is computed as the five-year annualized compound return on the Fama/French Emerging Markets Index minus the five-year annualized compound return of one-month US Treasury Bills. Five-year rolling size premium is computed as the five-year annualized compound return on the Dimensional Emerging Markets Small Cap Index minus the five-year annualized compound return on the MSCI Emerging Markets Index (gross dividends). Five-year rolling relative price premium is computed as the five-year annualized compound return on the Fama/French Emerging Markets Value Index minus the five-year annualized compound return on the Fama/French Emerging Markets Growth Index. The five-year rolling profitability premium is computed as the five-year annualized compound return on the Dimensional Emerging Markets High Profitability Index minus the five-year annualized compound return on the Dimensional Emerging Markets Low Profitability Index. Dimensional indices use Bloomberg data. Fama/French indices provided by Ken French. MSCI data copyright MSCI 2016, all rights reserved. Index descriptions available upon request. Eugene Fama and Ken French are members of the Board of Directors for and provide consulting services to Dimensional Fund Advisors LP. **Indices are not available for direct investment. Their performance does not reflect the expenses associated with the management of an actual portfolio. Past performance is no guarantee of future results.**

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# Emerging Markets Core Equity Portfolio

# Emerging Markets Core Equity Portfolio

Using an integrated approach to add value across all aspects of the investment process



- Structured based on systematic expected premiums:
  - Market
  - Company size
  - Relative price (value)
  - Profitability
- Offers broad sector and security diversification
- Balances competing premiums and manages implementation costs by using a disciplined and patient trading strategy

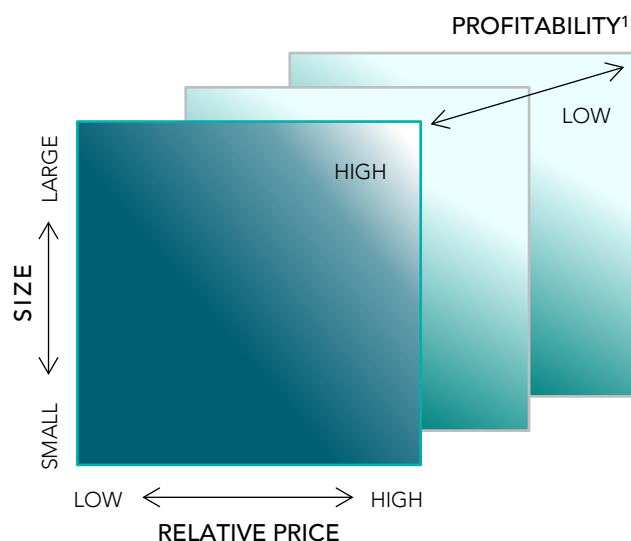
Number of names shown are as of September 30, 2016. Holdings are subject to change.

Number of countries shown include approved markets for investment as of the most recent published prospectus, February 29, 2016. Additional countries may be designated as approved markets for future investment.



# Portfolio Construction: Security Selection and Weighting

## Emerging Markets Core Equity Portfolio



- A total market solution focused on the dimensions of expected returns in a cost-effective way
- Increased emphasis on higher expected return securities:
  - Lower relative price
  - Higher profitability
  - Lower market cap

As of 9/30/2016	Weighted Average Market Cap (millions)	Aggregate Price-to-Book	Weighted Average Profitability
Emerging Markets Core Equity Portfolio	\$30,958	1.43	0.28
MSCI Emerging Markets Index	\$61,029	1.55	0.28

1. Profitability is measured as operating income before depreciation and amortization minus interest expense scaled by book. Holdings are subject to change. MSCI data copyright MSCI 2016, all rights reserved.

# Refining the Universe

## Considerations and potential exclusions

### Structural

- REITs<sup>1</sup>
- Highly regulated utilities<sup>1</sup>

### Event Driven

- Merger or target of acquisition
- Upcoming announcements
- Share classes with foreign restrictions and with significant premiums
- Recent IPO
- Bankruptcy
- Extraordinary events

### Ongoing

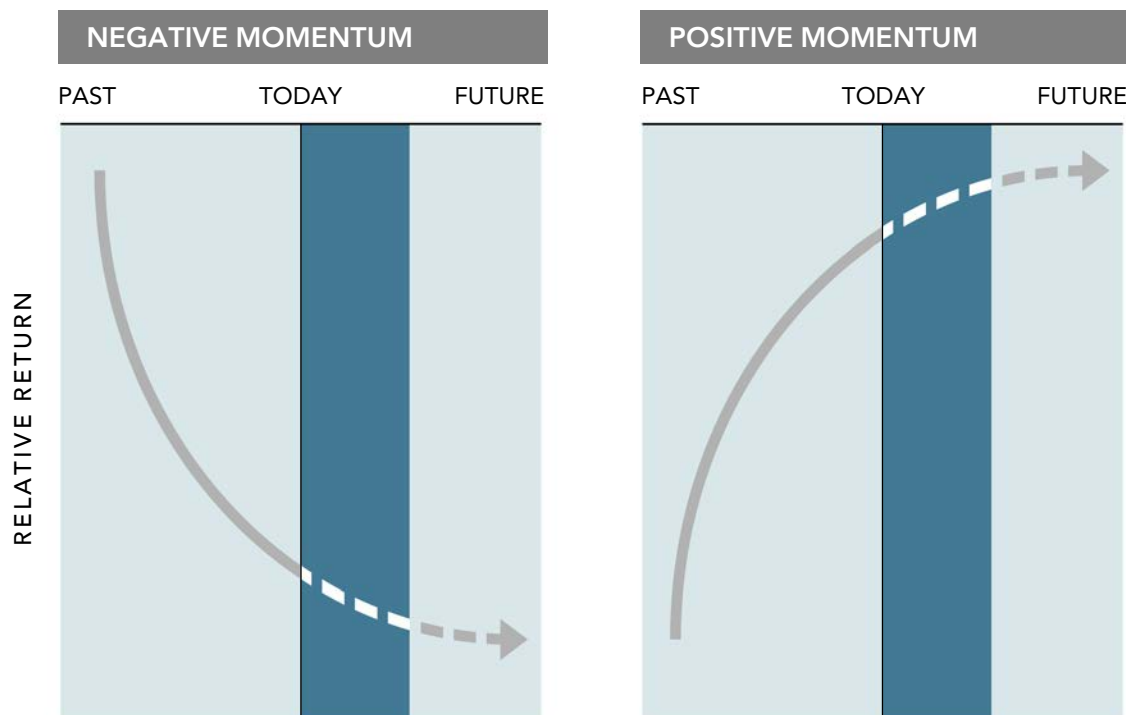
- Listing requirements
- Limited operating history
- Insufficient data
- Insufficient float or liquidity

Considerations and potential exclusions apply to securities Dimensional determines to fall within these categories at the time of potential purchase. This is not a complete list of all possible considerations and potential exclusions and is subject to change in all respects.

<sup>1</sup>. Not applicable to all strategies; also may not apply to certain companies organized as REITs.

# Managing Momentum

We incorporate momentum when making buy and sell decisions



**Delay buys** of securities otherwise eligible for purchase.

**Delay sells** of securities otherwise eligible for sale.

Stock returns may exhibit momentum:

- Stocks with large relative underperformance tend to have negative excess returns in the next period.
- Stocks with large relative outperformance tend to have positive excess returns in the next period.

# Trading Costs Matter

Our approach helps minimize the total costs of trading



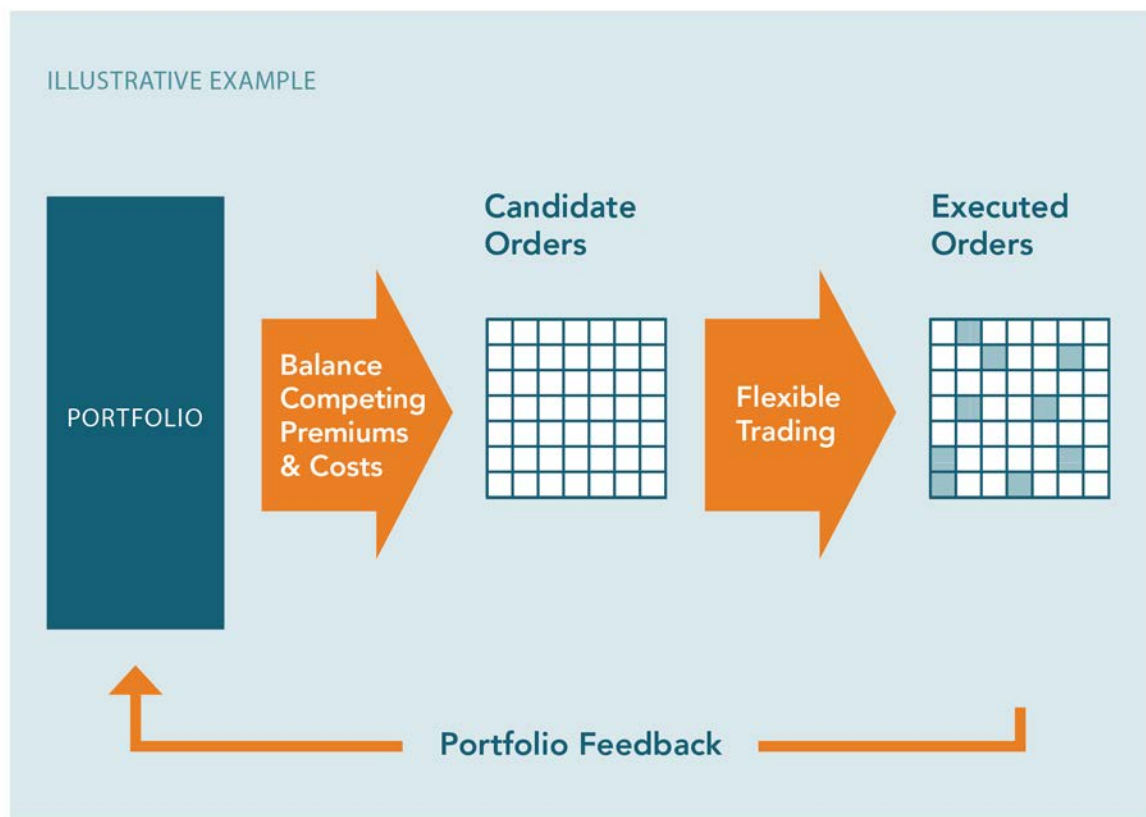
Low turnover by design keeps overall **trading costs** down.

We deal with **explicit costs** by keeping commissions as low as possible without sacrificing overall execution.

**Implicit costs** are more challenging to measure and must be estimated. They can potentially be large. We apply a trading philosophy that emphasizes patience and flexibility.

# Integrated Portfolio Implementation

Efficiently balancing expected premiums with the costs of turnover on a daily basis



- We continuously evaluate the portfolio:
  - Buy/sell decisions consider expected daily premiums vs. transactions costs.
  - Spread trading over time to minimize market impact.
- Our process is built to focus on higher expected returns every day while considering costs.

# Characteristics

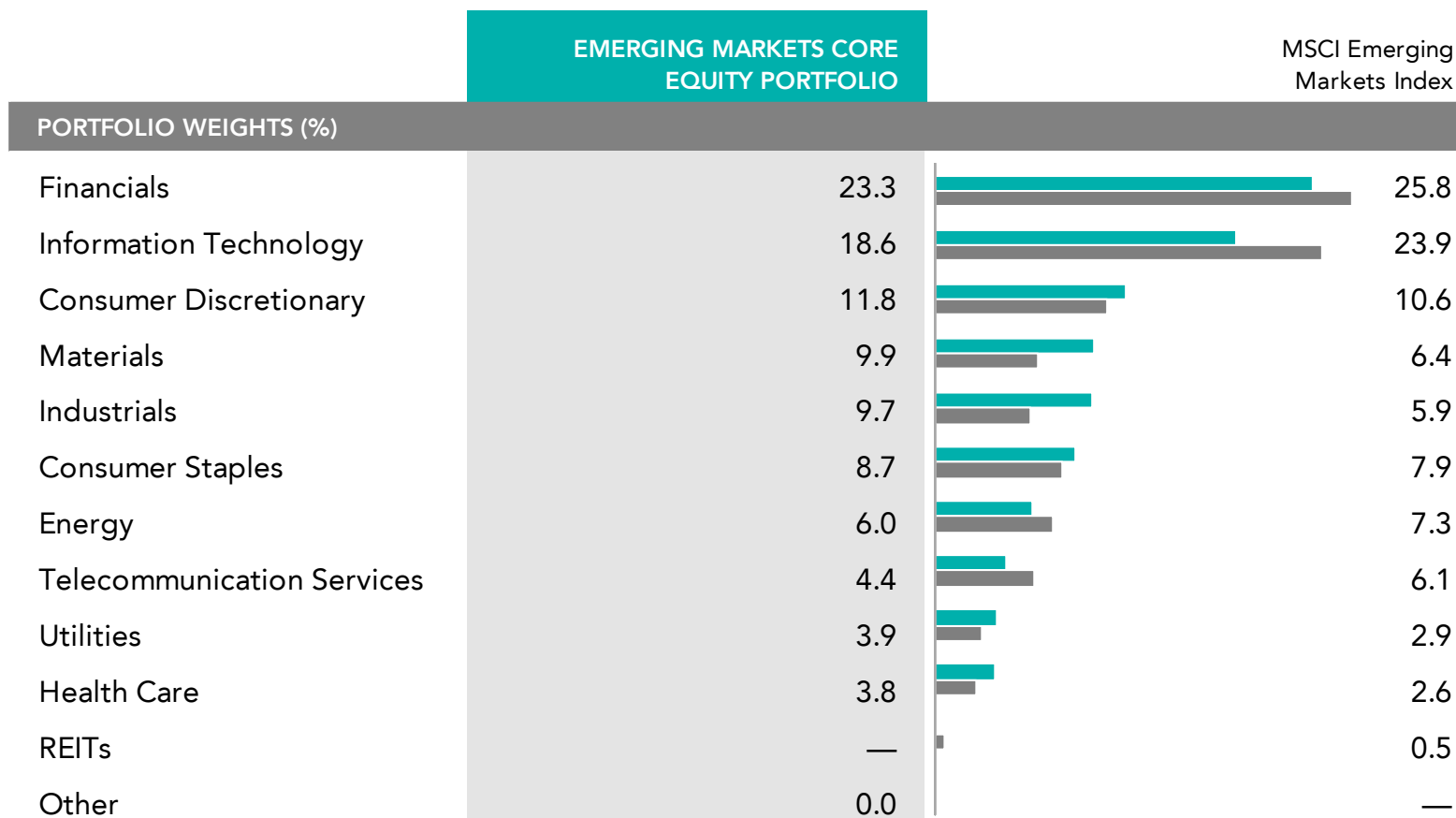
As of September 30, 2016

	EMERGING MARKETS CORE EQUITY PORTFOLIO	MSCI Emerging Markets Index
<b>MARKET CHARACTERISTICS</b>		
Total Value of Eligible Universe (millions)	\$4,410,721	\$4,081,230
Number of Holdings	4,406	833
<b>SIZE CHARACTERISTICS</b>		
Wtd. Average Market Cap (millions)	\$30,958	\$61,029
Median Market Cap (millions)	\$456	\$5,791
<b>VALUATION CHARACTERISTICS</b>		
Aggregate Price-to-Book	1.43	1.55
Wtd. Average Dividend-to-Price	2.45%	2.45%
<b>PROFITABILITY CHARACTERISTICS</b>		
Wtd. Average Profitability <sup>1</sup>	0.28	0.28

1. Operating income before depreciation and amortization minus interest expense scaled by book. Holdings are subject to change. MSCI data copyright MSCI 2016, all rights reserved.

# Sector Allocations

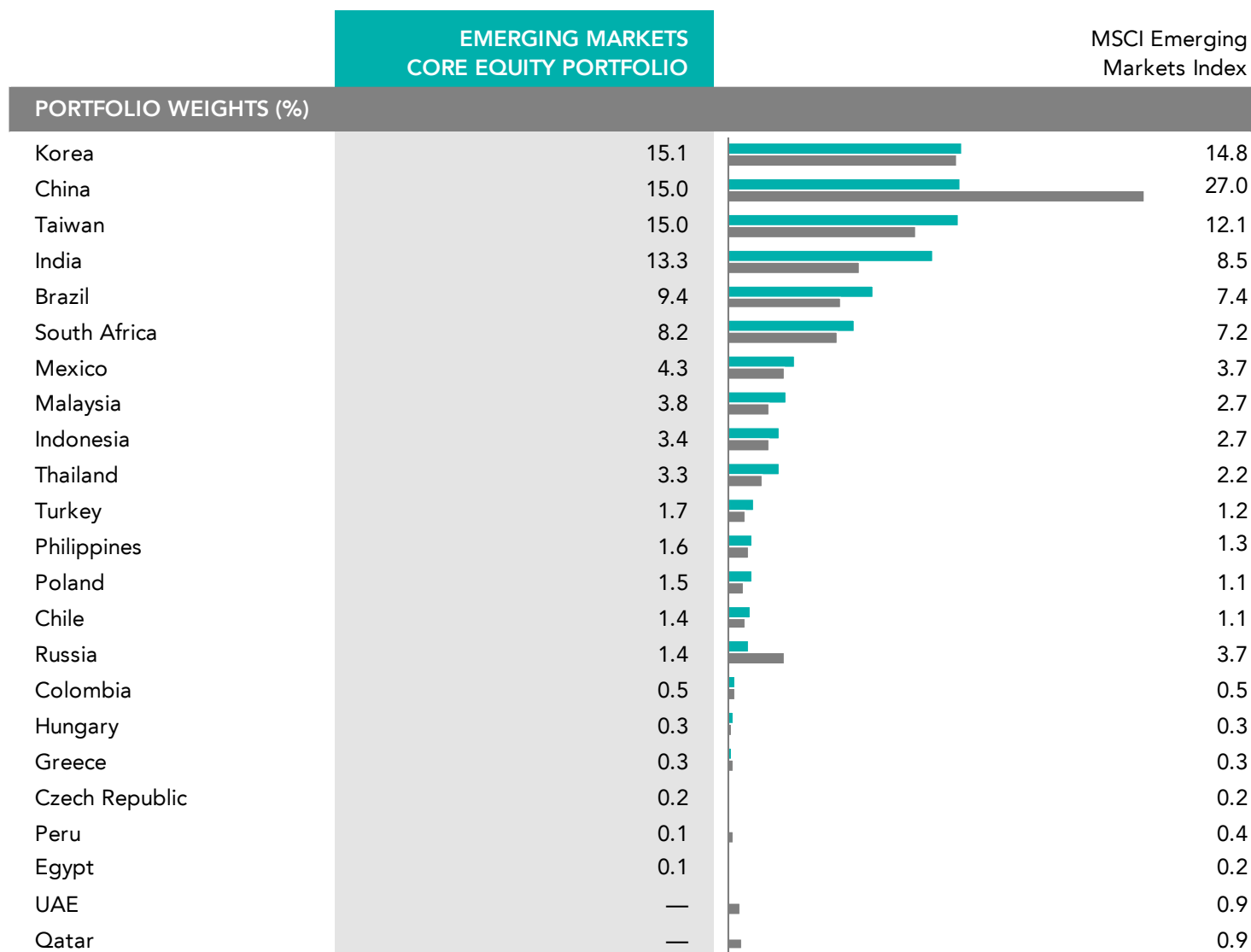
As of September 30, 2016



Numbers may not total 100% due to rounding. Sectors defined by MSCI. MSCI data copyright MSCI 2016, all rights reserved. The REITs industry, a member of the Financials sector, is shown separately to illustrate its exclusion from certain funds.

# Country Allocations

As of September 30, 2016



Holdings are subject to change. Numbers may not total 100% due to rounding and/or de minimis country exclusions. MSCI data copyright MSCI 2016, all rights reserved. Does not include de minimis country exposure that may occur due to corporate actions or similar events.



# Top 10 Holdings

As of October 31, 2016

## EMERGING MARKETS CORE EQUITY PORTFOLIO

Security	Weight %
Samsung Electronics Co Lt	2.9
Taiwan Semiconductor Manu	2.3
Tencent Holdings Ltd	1.5
Itau Unibanco Holding SA	1.2
Petroleo Brasileiro SA	1.0
China Construction Bank C	0.9
Hon Hai Precision Industr	0.8
China Mobile Ltd	0.8
Banco Bradesco SA	0.7
Industrial & Commercial B	0.6
<b>Total</b>	<b>12.6</b>

## MSCI EMERGING MARKETS INDEX

Security	Weight %
Samsung Electronics Co Lt	4.0
Tencent Holdings Ltd	3.7
Taiwan Semiconductor Manu	3.6
Alibaba Group Holding Ltd	2.8
Naspers Ltd	1.8
China Mobile Ltd	1.7
China Construction Bank C	1.5
Baidu Inc	1.2
Industrial & Commercial B	1.1
Hon Hai Precision Industr	1.0
<b>Total</b>	<b>22.4</b>

# Emerging Markets Environment

MSCI Emerging Markets IMI (net dividends)

## YEAR TO DATE: OCTOBER 31, 2016

	Value	Neutral	Growth
Large	24.49%	12.34%	14.32%
Mid	22.85%	12.08%	2.29%
Small	22.44%	11.23%	-1.36%

## 1 YEAR AS OF OCTOBER 31, 2016

	Value	Neutral	Growth
Large	14.90%	4.98%	10.14%
Mid	14.12%	4.97%	-1.83%
Small	16.80%	7.57%	-3.04%

## CUMULATIVE RETURNS SINCE ACCOUNT 1ST FULL MONTH: JUNE 1, 2013—OCTOBER 31, 2016

	Value	Neutral	Growth
Large	-4.77%	-7.65%	12.93%
Mid	-4.46%	-10.55%	-2.17%
Small	-0.25%	-3.98%	-2.18%

Companies are classified as small, mid, and large by computing breakpoints based on total market capitalization in each country or region. Within the US, large is defined as the largest 70% of market cap, mid is the next 20%, and small is the smallest 10%. Within the non-US developed markets, large is the largest 70% of market cap, mid is the next 17.5%, and small is the smallest 12.5%. Within emerging markets, large is the largest 70% of market cap, mid is the next 15%, and small is the smallest 15%. Designations between value, neutral, and growth are constructed in each country or region based on price to book ratios. Value is defined as the 30% of market cap with the lowest price to book ratios, neutral is the next 40%, and growth is the highest 30%. Return is the compounded monthly group return for the specified time periods. MSCI data copyright MSCI 2016, all rights reserved. Indices are not available for direct investment. Their performance does not reflect the expenses associated with the management of an actual portfolio.

# Performance

As of October 31, 2016

Annualized Returns <sup>1</sup> (%)	Year to Date	1 Year	3 Years	5 Years	10 Years	Since 6/13 Account 1st Full Month	Since 5/05 Portfolio 1st Full Month
<b>EMERGING MARKETS CORE EQUITY PORTFOLIO</b>	18.52	11.87	-0.85	1.69	4.76	-0.05	7.94
MSCI Emerging Markets Index (net dividends)	16.30	9.27	-2.05	0.55	3.49	-0.71	7.28

Calendar Year Returns (%)	<b>EMERGING MARKETS CORE EQUITY PORTFOLIO</b>	MSCI Emerging Markets Index (net dividends)	Account Value
2006	30.95	32.14	<b>SACRAMENTO REGIONAL TRANSIT DISTRICT</b> \$13,693,635
2007	37.49	39.42	
2008	-50.66	-53.33	
2009	83.58	78.51	
2010	23.62	18.88	
2011	-20.65	-18.42	
2012	20.49	18.22	
2013	-2.64	-2.60	
2014	-0.91	-2.19	
2015	-14.86	-14.92	

Performance data shown represents past performance and is no guarantee of future results. Performance includes reinvestment of dividends and other earnings. Current performance may be higher or lower than the performance shown. The investment return and principal value of an investment will fluctuate so that an investor's shares, when redeemed, may be worth more or less than their original cost. To obtain the most current month-end performance data, visit [us.dimensional.com](http://us.dimensional.com).

1. Returns for periods shorter than one year are not annualized.

MSCI data copyright MSCI 2016, all rights reserved. Indices are not available for direct investment. See "Appendix: Standardized Performance Data & Disclosures" to learn how to obtain complete information on performance, investment objectives, risks, advisory fees, and expenses of Dimensional's funds.



# Appendix

# Fees

	Net Expense Ratio (%)	Total (Gross) Expense Ratio (%)	Management Fee (%)
Emerging Markets Core Equity Portfolio <sup>1</sup>	0.62	0.62	0.55

1. Expense information as of 10/31/2015. The Advisor has agreed to waive certain fees and, in certain circumstances, assume certain expenses of the Portfolio. This contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017. The fund's prospectus contains more information on fees and expenses.

# Client Service Team

## Sacramento Regional Transit District Pension Funds

### **Stephen A. Clark**

Head of Global Institutional, North America,  
and Vice President

18 Years Investment Experience

15<sup>th</sup> Year with Firm

Previous Employment: US Bancorp Piper Jaffray

Education: MBA, University of Chicago Booth  
School of Business; BS, Bradley University

### **Yassie Entekhabi**

Senior Associate

6 Years Investment Experience

1<sup>st</sup> Year with Firm

Previous Employment: Kayne Anderson Capital Advisors, J.P.  
Morgan

Education: MBA, UCLA Anderson School of Management; BA,  
Claremont McKenna College

### **Ted Simpson, CFA**

Vice President

15 Years Investment Experience

14<sup>th</sup> Year with Firm

Previous Employment: Mattel, Salomon Brothers

Education: MBA, Northwestern University;  
AB, Princeton University

### **Jennifer Sutherland**

Senior Associate

8 Years Investment Experience

1<sup>st</sup> Year with Firm

Previous Employment: Deutsche Bank,  
Man Investments

Education: BS, New York University

### **Weideng He**

Associate

6 Years Investment Experience

2<sup>nd</sup> Year with Firm

Previous Employment: Barclays Capital

Education: MS, University of Southern California;  
BA, Waseda University

# Presenter's Biography



## **Ted Simpson, CFA**

Vice President

Ted Simpson, a vice president on the Institutional Services team, is responsible for developing and maintaining relationships with public pension funds, foundations, endowments, Taft-Hartley plan sponsors, and corporate pension and defined contribution plans.

Since joining Dimensional in 2002, Ted has held a number of positions within the firm. He began as a marketing consultant before taking a leadership role in the firm's defined contribution market initiative. Later, Ted got involved with Dimensional's consultant relations effort and eventually helped manage the group. Most recently, he has shifted his attention to working directly with clients.

Prior to joining Dimensional, Ted worked for Salomon Brothers, Legal & General, Mattel, Lion Nathan, and a fee-only RIA. He earned an MBA in marketing, strategy, and organizational behavior from the Kellogg School of Management at Northwestern University, and a BA in politics and economics from Princeton University. Ted is a CFA Charterholder and holds FINRA licenses 24, 7, and 63.

# Standardized Performance Data & Disclosures

**Performance data shown represents past performance. Past performance is no guarantee of future results, and current performance may be higher or lower than the performance shown. The investment return and principal value of an investment will fluctuate so that an investor's shares, when redeemed, may be worth more or less than their original cost. To obtain performance data current to the most recent month end, access our website at [us.dimensional.com](http://us.dimensional.com).**

**Consider the investment objectives, risks, and charges and expenses of the Dimensional funds carefully before investing. For this and other information about the Dimensional funds, please read the prospectus carefully before investing. Prospectuses are available by calling Dimensional Fund Advisors collect at (512) 306-7400 or at [us.dimensional.com/prospectus](http://us.dimensional.com/prospectus). Dimensional funds are distributed by DFA Securities LLC.**

Dimensional Fund Advisors LP is an investment advisor registered with the Securities and Exchange Commission.

**Risks** include loss of principal and fluctuating value. Investment value will fluctuate, and shares, when redeemed, may be worth more or less than original cost.

**Small and micro cap** securities are subject to greater volatility than those in other asset categories.

**International and emerging markets** investing involves special risks such as currency fluctuation and political instability. Investing in emerging markets may accentuate these risks.

**Sector-specific investments** focus on a specific segment of the market, which can increase investment risks.

**Fixed income securities** are subject to increased loss of principal during periods of rising interest rates. Fixed income investments are subject to various other risks, including changes in credit quality, liquidity, prepayments, call risk, and other factors. Municipal securities are subject to the risks of adverse economic and regulatory changes in their issuing states.

**Real estate investment** risks include changes in real estate values and property taxes, interest rates, cash flow of underlying real estate assets, supply and demand, and the management skill and creditworthiness of the issuer.

**Sustainability funds** use environmental and social screens that may limit investment opportunities for the fund.

**Commodities** include increased risks, such as political, economic, and currency instability, and may not be suitable for all investors. The Portfolio may be more volatile than a diversified fund because the Portfolio invests in a smaller number of issuers and commodity sectors.

**The fund prospectuses contain more information about investment risks.**



# Standardized Performance Data & Disclosures

As of September 30, 2016 Average Annual Total Returns (%)	Symbol	1 Year	5 Years	10 Years	Since Inception	Net Expense Ratio (%)	Total (Gross) Expense Ratio (%)	Management Fee (%)	Inception Date
<b>US Equity Portfolios</b>									
US Core Equity 1 Portfolio <sup>1,2</sup>	DFEOX	13.93	16.41	7.46	7.67	0.19	0.19	0.17	9/15/2005
US Core Equity 2 Portfolio <sup>1,2</sup>	DFQTX	13.58	16.41	7.07	7.40	0.22	0.22	0.20	9/15/2005
US Vector Equity Portfolio <sup>1,2</sup>	DFVEX	12.90	16.25	6.56	7.07	0.32	0.32	0.30	12/30/2005
US Micro Cap Portfolio <sup>1</sup>	DFSCX	14.65	16.83	7.23	11.83	0.52	0.52	0.50	12/23/1981
US Small Cap Portfolio <sup>1</sup>	DFSTX	13.82	16.84	8.21	10.39	0.37	0.37	0.35	3/19/1992
US Small Cap Value Portfolio <sup>1</sup>	DFSVX	13.57	16.45	6.36	11.60	0.52	0.52	0.50	3/2/1993
US Small Cap Growth Portfolio <sup>1,2</sup>	DSCGX	11.61	—	—	13.24	0.40	0.40	0.35	12/20/2012
US Targeted Value Portfolio <sup>1,2</sup>	DFVX	14.05	16.75	6.95	11.33	0.37	0.37	0.35	2/23/2000
US Large Cap Value Portfolio <sup>3</sup>	DFLVX	15.08	17.76	6.50	9.94	0.27	0.37	0.35	2/19/1993
US Large Cap Growth Portfolio <sup>1,2</sup>	DUSLX	14.25	—	—	13.94	0.20	0.20	0.17	12/20/2012
US Large Company Portfolio <sup>1,4</sup>	DFUSX	15.41	16.30	7.25	5.11	0.08	0.09	0.06	9/23/1999
US Large Cap Equity Portfolio <sup>1,2</sup>	DUSQX	13.98	—	—	11.11	0.19	0.19	0.15	6/25/2013
Enhanced US Large Company Portfolio <sup>1</sup>	DFELX	15.87	16.54	7.50	8.17	0.24	0.24	0.20	7/2/1996

1. Expense information as of 10/31/2015. The fund's prospectus contains more information on fees and expenses.

2. The Advisor has agreed to waive certain fees and, in certain circumstances, assume certain expenses of the Portfolio. This contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017.

3. Expense information as provided in the prospectus, dated 2/28/2016. The Advisor has agreed to waive certain fees and, in certain circumstances, assume certain expenses of the Portfolio. This portion of the contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017. The "Total Operating Expense Ratio" has been adjusted to reflect the Feeder Portfolio's new investment management agreement, effective July 21, 2015, and includes an investment management fee payable by the Feeder Portfolio and an investment management fee payable by the Master Fund. For any period when the Feeder Portfolio is invested in other funds managed by the Advisor (collectively, "Underlying Funds"), the Advisor has contractually agreed to permanently waive the Feeder Portfolio's direct investment management fee to the extent necessary to offset the proportionate share of any Underlying Fund's investment management fee paid by the Feeder Portfolio through its investment in such Underlying Fund. The fund's prospectus contains more information on fees and expenses.

4. The Advisor has agreed to waive certain fees of the Portfolio. The contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017.

# Standardized Performance Data & Disclosures

As of September 30, 2016 Average Annual Total Returns (%)	Symbol	1 Year	5 Years	10 Years	Since Inception	Net Expense Ratio (%)	Total (Gross) Expense Ratio (%)	Management Fee (%)	Inception Date
<b>Non-US Equity Portfolios</b>									
International Core Equity Portfolio <sup>1,2</sup>	DFIEX	9.94	8.44	2.81	4.38	0.38	0.38	0.35	9/15/2005
International Vector Equity Portfolio <sup>1,2</sup>	DFVQX	10.94	8.58	—	4.20	0.50	0.50	0.45	8/14/2008
International Small Company Portfolio <sup>1,2</sup>	DFISX	13.71	10.45	4.91	6.89	0.54	0.54	0.40	9/30/1996
International Small Cap Value Portfolio <sup>1</sup>	DISVX	10.46	11.47	4.64	7.44	0.69	0.69	0.65	12/29/1994
International Small Cap Growth Portfolio <sup>1,2</sup>	DISMX	14.37	—	—	10.15	0.55	0.67	0.50	12/20/2012
International Value Portfolio <sup>3</sup>	DFIVX	6.10	5.88	0.93	5.83	0.43	0.63	0.60	2/15/1994
International Large Cap Growth Portfolio <sup>1,2</sup>	DILRX	8.72	—	—	5.60	0.30	0.34	0.25	12/20/2012
Large Cap International Portfolio <sup>1</sup>	DFALX	7.26	7.28	2.10	5.39	0.29	0.29	0.25	7/17/1991
Emerging Markets Core Equity Portfolio <sup>1,2</sup>	DFCEX	18.15	4.13	5.42	7.54	0.62	0.62	0.55	4/5/2005
Emerging Markets Small Cap Portfolio <sup>3</sup>	DEMSX	20.73	6.94	7.59	11.56	0.73	0.93	0.85	3/5/1998
Emerging Markets Value Portfolio <sup>3</sup>	DFEVX	19.78	2.24	4.14	9.90	0.56	0.66	0.60	4/1/1998
Emerging Markets Portfolio <sup>3</sup>	DFEMX	17.46	3.49	4.67	6.64	0.57	0.67	0.60	4/25/1994
World ex US Value Portfolio <sup>1,2</sup>	DFWVX	9.47	5.52	—	3.29	0.53	0.75	0.47	8/23/2010
World ex US Targeted Value Portfolio <sup>4</sup>	DWUSX	14.71	—	—	7.57	0.64	0.64	0.58	11/1/2012
World ex US Core Equity Portfolio <sup>5</sup>	DFWIX	11.63	—	—	2.76	0.47	0.49	0.40	4/9/2013

1. Expense information as of 10/31/2015. The fund's prospectus contains more information on fees and expenses.

2. The Advisor has agreed to waive certain fees and, in certain circumstances, assume certain expenses of the Portfolio. This contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017.

3. Expense information as provided in the prospectus, dated 2/28/2016. The "Total Operating Expense Ratio" has been adjusted to reflect the Feeder Portfolio's new investment management agreement, effective July 21, 2015, and includes an investment management fee payable by the Feeder Portfolio and an investment management fee payable by the Master Fund. For any period when the Feeder Portfolio is invested in other funds managed by the Advisor (collectively, "Underlying Funds"), the Advisor has contractually agreed to permanently waive the Feeder Portfolio's direct investment management fee to the extent necessary to offset the proportionate share of any Underlying Fund's investment management fee paid by the Feeder Portfolio through its investment in such Underlying Fund. The fund's prospectus contains more information on fees and expenses.

4. Expense information as provided in the prospectus, dated 2/28/2016. The "Total Operating Expense Ratio" has been restated to reflect current fee components. The Advisor has agreed to waive certain fees and, in certain circumstances, assume certain expenses of the Portfolio. This contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017. The fund's prospectus contains more information on fees and expenses.

5. Expense information as provided in the prospectus, dated 2/28/2016. The Advisor has agreed to waive certain fees and, in certain circumstances, assume certain expenses of the Portfolio. This contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017. The "Total Operating Expense Ratio" has been restated to reflect current fee components. The fund's prospectus contains more information on fees and expenses.

# Standardized Performance Data & Disclosures

As of September 30, 2016 Average Annual Total Returns (%)	Symbol	1 Year	5 Years	10 Years	Since Inception	Net Expense Ratio (%)	Total (Gross) Expense Ratio (%)	Management Fee (%)	Inception Date
<b>Tax Managed Portfolios<sup>1</sup></b>									
Tax-Managed US Small Cap Portfolio <sup>2</sup>	DFTSX	13.44	16.86	6.97	9.24	0.52	0.52	0.50	12/15/1998
After Taxes on Distributions		11.82	16.24	6.48	8.93				
After Taxes on Distributions and Sale of Fund Shares		8.49	13.59	5.59	7.91				
Tax-Managed US Targeted Value Portfolio <sup>2</sup>	DTMVX	11.11	17.45	6.44	9.98	0.44	0.44	0.42	12/11/1998
After Taxes on Distributions		9.67	16.52	5.70	9.40				
After Taxes on Distributions and Sale of Fund Shares		7.05	14.08	5.13	8.57				
Tax-Managed US Equity Portfolio <sup>2,3</sup>	DTMEX	14.55	16.13	7.20	7.46	0.22	0.22	0.20	9/25/2001
After Taxes on Distributions		13.75	15.62	6.81	7.14				
After Taxes on Distributions and Sale of Fund Shares		8.34	12.95	5.77	6.17				
Tax-Managed US Marketwide Value Portfolio <sup>4</sup>	DTMMX	12.64	17.67	6.63	7.13	0.37	0.57	0.55	12/14/1998
After Taxes on Distributions		11.84	17.19	6.25	6.79				
After Taxes on Distributions and Sale of Fund Shares		7.24	14.27	5.29	5.91				
Tax-Managed International Value Portfolio <sup>2</sup>	DTMIX	6.16	5.65	1.07	5.12	0.53	0.53	0.50	4/16/1999
After Taxes on Distributions		4.81	4.96	0.43	4.56				
After Taxes on Distributions and Sale of Fund Shares		3.62	4.52	1.20	4.43				
TA US Core Equity 2 Portfolio <sup>2,3</sup>	DFTCX	13.42	16.44	—	6.29	0.24	0.24	0.22	10/4/2007
After Taxes on Distributions		12.67	15.85	—	5.88				
After Taxes on Distributions and Sale of Fund Shares		7.69	13.22	—	4.97				
TA World ex US Core Equity Portfolio <sup>2,3</sup>	DFTWX	11.39	7.32	—	1.94	0.45	0.45	0.40	3/6/2008
After Taxes on Distributions		10.32	6.75	—	1.51				
After Taxes on Distributions and Sale of Fund Shares		6.56	5.80	—	1.60				

1. Assumed highest marginal tax rate in effect for capital gains and ordinary income. Income from funds managed for tax efficiency may be subject to an alternative minimum tax and/or any applicable state and local taxes.

2. Expense information as of 10/31/2015. The fund's prospectus contains more information on fees and expenses.

3. The Advisor has agreed to waive certain fees and, in certain circumstances, assume certain expenses of the Portfolio. This contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017.

4. Expense information as provided in the prospectus, dated 2/28/2016. The "Total Operating Expense Ratio" has been adjusted to reflect the Feeder Portfolio's new investment management agreement, effective July 21, 2015, and includes an investment management fee payable by the Feeder Portfolio and an investment management fee payable by the Master Fund. For any period when the Feeder Portfolio is invested in other funds managed by the Advisor (collectively, "Underlying Funds"), the Advisor has contractually agreed to permanently waive the Feeder Portfolio's direct investment management fee to the extent necessary to offset the proportionate share of any Underlying Fund's investment management fee paid by the Feeder Portfolio through its investment in such Underlying Fund. The fund's prospectus contains more information on fees and expenses.

# Standardized Performance Data & Disclosures

As of September 30, 2016									
Average Annual Total Returns (%)	Symbol	1 Year	5 Years	10 Years	Since Inception	Net Expense Ratio (%)	Total (Gross) Expense Ratio (%)	Management Fee (%)	Inception Date
<b>Fixed Income Portfolios</b>									
One-Year Fixed Income Portfolio <sup>1</sup>	DFIHX	0.67	0.52	1.67	4.77	0.17	0.17	0.15	7/25/1983
Short-Term Government Portfolio <sup>1,2</sup>	DFFGX	1.40	1.20	2.92	5.19	0.19	0.19	0.17	6/1/1987
Short-Term Extended Quality Portfolio <sup>1,3</sup>	DFEQX	2.76	2.02	—	3.39	0.22	0.22	0.20	3/4/2009
California Short-Term Municipal Bond Portfolio <sup>1,3</sup>	DFCMX	1.08	0.95	—	1.88	0.22	0.22	0.20	4/2/2007
Short-Term Municipal Bond Portfolio <sup>1,2</sup>	DFSMX	1.08	0.83	1.82	1.85	0.22	0.22	0.20	8/20/2002
Short-Duration Real Return Portfolio <sup>1,3</sup>	DFAIX	3.79	—	—	0.78	0.24	0.23	0.20	11/5/2013
Two-Year Global Fixed Income Portfolio <sup>1</sup>	DFGFX	0.70	0.63	1.82	3.23	0.18	0.18	0.15	2/9/1996
Selectively Hedged Global Fixed Income Portfolio <sup>1,3</sup>	DFSHX	5.89	0.84	—	1.07	0.17	0.17	0.15	1/9/2008
Five-Year Global Fixed Income Portfolio <sup>1</sup>	DFGBX	2.91	2.35	3.64	5.49	0.27	0.27	0.25	11/6/1990
Municipal Real Return Portfolio <sup>1,3</sup>	DMREX	4.36	—	—	0.71	0.27	0.35	0.20	11/4/2014
Municipal Bond Portfolio <sup>1,3</sup>	DFMPX	3.05	—	—	2.81	0.23	0.37	0.20	3/10/2015
California Intermediate-Term Municipal Bond Portfolio <sup>1,3</sup>	DCIBX	2.89	—	—	2.89	0.23	0.23	0.20	11/29/2011
NY Municipal Bond Portfolio <sup>4</sup>	DNVMX	2.82	—	—	3.31	0.25	0.25	0.20	6/16/2015
Intermediate-Term Municipal Bond Portfolio <sup>1,3</sup>	DFTIX	3.04	—	—	2.02	0.23	0.23	0.20	3/1/2012
Targeted Credit Portfolio <sup>4</sup>	DTCPX	3.58	—	—	2.78	0.20	0.23	0.19	5/20/2015
Intermediate Government Fixed Income Portfolio <sup>1</sup>	DFIGX	4.58	2.78	5.07	6.50	0.12	0.12	0.10	10/19/1990
Intermediate-Term Extended Quality Portfolio <sup>1,3</sup>	DFTEX	8.04	4.58	—	4.93	0.22	0.22	0.20	7/20/2010
Investment Grade Portfolio <sup>5</sup>	DFAPX	5.47	3.42	—	4.37	0.22	0.22	0.20	3/7/2011
Inflation-Protected Securities Portfolio <sup>1,3</sup>	DIPSX	6.67	2.00	4.71	4.79	0.12	0.12	0.10	9/18/2006
LTIP Portfolio <sup>6</sup>	DRXIX	20.57	—	—	1.95	0.15	16.11	0.10	3/7/2012
World ex US Government Fixed Income Portfolio <sup>1,3</sup>	DWFIX	8.83	—	—	5.62	0.20	0.22	0.18	12/6/2011
<b>Commodities Portfolio</b>									
Commodity Strategy Portfolio <sup>1,3</sup>	DCMSX	0.08	-7.79	—	-7.99	0.34	0.34	0.30	11/9/2010

1. Expense information as of 10/31/2015. The fund's prospectus contains more information on fees and expenses.

2. The Advisor has agreed to waive certain fees of the Portfolio. The contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017.

3. The Advisor has agreed to waive certain fees and, in certain circumstances, assume certain expenses of the Portfolio. This contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017.

4. The Portfolio is a new portfolio, so the expense information is based on anticipated fees and expenses for the first full fiscal year. The Advisor has agreed to waive certain fees and, in certain circumstances, assume certain expenses of the Portfolio. This contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017. The fund's prospectus contains more information on fees and expenses.

5. Expense information as provided in the prospectus, dated 2/28/2016. The Advisor has agreed to waive certain fees and, in certain circumstances, assume certain expenses of the Portfolio. This contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017. The "Total Operating Expense Ratio" has been restated to reflect current fee components. The fund's prospectus contains more information on fees and expenses.

6. Expense information as provided in the prospectus, dated 2/28/2016. The Advisor has agreed to waive certain fees and, in certain circumstances, assume certain expenses of the Portfolio. This contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017. The "Total Operating Expense Ratio" has been adjusted to reflect the decrease in the management fee payable by the Portfolio from 0.30% to 0.10%, effective March 12, 2015. The "Net Expense Ratio" has been adjusted to reflect an amendment to the Amended and Restated Fee Waiver and Expense Assumption Agreement for the Portfolio with the Advisor effective as of February 28, 2015, which reduced the expense limitation amount for the Portfolio. The fund's prospectus contains more information on fees and expenses.

# Standardized Performance Data & Disclosures

As of September 30, 2016 Average Annual Total Returns (%)	Symbol	1 Year	5 Years	10 Years	Since Inception	Net Expense Ratio (%)	Total (Gross) Expense Ratio (%)	Management Fee (%)	Inception Date
<b>Global Portfolios</b>									
Global Allocation 25/75 Portfolio <sup>1,2</sup>	DGTSX	5.42	4.54	4.16	4.43	0.26	0.43	0.20	12/24/2003
Global Allocation 60/40 Portfolio <sup>1,2</sup>	DGSIX	10.05	8.82	5.17	6.15	0.29	0.52	0.25	12/24/2003
Global Equity Portfolio <sup>1,2</sup>	DGEIX	13.13	13.15	5.56	7.60	0.31	0.60	0.30	12/24/2003
Selectively Hedged Global Equity Portfolio <sup>1,3</sup>	DSHGX	12.41	—	—	10.02	0.40	0.66	0.30	11/14/2011
World Core Equity Portfolio <sup>1,3</sup>	DREIX	12.77	—	—	9.17	0.35	0.65	0.30	3/7/2012
<b>Real Estate Portfolios</b>									
Real Estate Securities Portfolio <sup>1,3</sup>	DFREX	19.99	15.77	6.06	10.53	0.18	0.19	0.17	1/5/1993
International Real Estate Securities Portfolio <sup>4</sup>	DFITX	13.58	10.97	—	0.66	0.29	0.29	0.25	3/1/2007
Global Real Estate Securities Portfolio <sup>5</sup>	DFGEX	17.74	13.83	—	6.13	0.24	0.38	0.20	6/4/2008
<b>Social and Sustainability Portfolios</b>									
US Sustainability Core 1 Portfolio <sup>6</sup>	DFSIX	13.45	16.36	—	8.64	0.25	0.32	0.29	3/12/2008
International Sustainability Core 1 Portfolio <sup>6</sup>	DFSPX	8.01	7.90	—	1.43	0.42	0.48	0.42	3/12/2008
US Social Core Equity 2 Portfolio <sup>1,2</sup>	DFUEX	13.37	15.66	—	5.37	0.29	0.29	0.25	10/1/2007
International Social Core Equity Portfolio <sup>1,3</sup>	DSCLX	10.07	—	—	6.14	0.46	0.46	0.37	11/1/2012
Emerging Markets Social Core Equity Portfolio <sup>1,3</sup>	DFESX	19.31	3.93	5.02	5.00	0.65	0.65	0.55	8/31/2006
Social Fixed Income Portfolio <sup>7</sup>	DSFIX	—	—	—	1.59	0.27	0.42	0.20	4/5/2016

1. Expense information as of 10/31/2015. The fund's prospectus contains more information on fees and expenses.

2. The Advisor has agreed to waive certain fees of the Portfolio. The contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017.

3. The Advisor has agreed to waive certain fees and, in certain circumstances, assume certain expenses of the Portfolio. This contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017.

4. Expense information as provided in the prospectus, dated 2/28/2016. The "Management Fee" and "Total Annual Fund Operating Expenses" have been adjusted to reflect the decrease in the management fee payable by the Portfolio from 0.35% to 0.25% effective as of February 28, 2015. The Advisor has agreed to waive certain fees and, in certain circumstances, assume certain expenses of the Portfolio. This contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2017. The fund's prospectus contains more information on fees and expenses.

5. Expense information as provided in the prospectus, dated 2/28/2016. The Advisor has agreed to waive certain fees and, in certain instances, assume certain expenses of the Portfolio. The Fee Waiver and Expense Assumption Agreement for the Portfolio will remain in effect through February 28, 2017. The "Total Operating Expense Ratio" has been adjusted to reflect the decrease in the management fee payable by the Portfolio from 0.27% to 0.20% effective as of February 28, 2015. The "Total Operating Expense Ratio" has also been restated to reflect current fee components. The "Net Expense Ratio" has been adjusted to reflect an amendment to the Fee Waiver and Expense Assumption Agreement for the Portfolio with the Advisor effective as of February 28, 2015, which reduced the expense limitation amount for the Portfolio. The "Net Expense Ratio" for the fiscal year ended October 31, 2015 was 0.27%. The fund's prospectus contains more information on fees and expenses.

6. Expense information as provided in the prospectus, dated 2/28/2016. "Net Expenses Ratio" has been adjusted to reflect an amendment to the Fee Waiver and Expense Assumption Agreement for the Portfolio with the Advisor effective as of February 28, 2016, which reduced the expense limitation amount for the Portfolio. The "Total Operating Expense Ratio" of the Portfolio did not reach the previous expense limitation amount during the fiscal year ended October 31, 2015. The Fee Waiver and Expense Assumption Agreement remain in effect through 2/28/2017. The fund's prospectus contains more information on fees and expenses.

7. The Portfolio is a new portfolio, so the expense information is based on anticipated fees and expenses for the current fiscal year. The Advisor has agreed to waive certain fees and, in certain circumstances, assume certain expenses of the Portfolio. This contractual fee waiver and/or expense assumption agreement will remain in effect through 2/28/2018. The fund's prospectus contains more information on fees and expenses.

# Index Descriptions

**Dimensional US Small Cap Index** was created by Dimensional in March 2007 and is compiled by Dimensional. It represents a market-capitalization-weighted index of securities of the smallest US companies whose market capitalization falls in the lowest 8% of the total market capitalization of the Eligible Market. The Eligible Market is composed of securities of US companies traded on the NYSE, NYSE MKT (formerly AMEX), and Nasdaq Global Market. Exclusions: Non-US companies, REITs, UITs, and investment companies. From January 1975 to the present, the index also excludes companies with the lowest profitability and highest relative price within the small cap universe. Profitability is measured as operating income before depreciation and amortization minus interest expense scaled by book. Source: CRSP and Compustat. The index monthly returns are computed as the simple average of the monthly returns of 12 sub-indices, each one reconstituted once a year at the end of a different month of the year. The calculation methodology for the Dimensional US Small Cap Index was amended on January 1, 2014, to include profitability as a factor in selecting securities for inclusion in the index.

**Dimensional US High Profitability Index** was created by Dimensional in January 2014 and represents an index consisting of US companies. It is compiled by Dimensional. Dimensional sorts stocks into three profitability groups from high to low. Each group represents one-third of the market capitalization. Similarly, stocks are sorted into three relative price groups. The intersections of the three profitability groups and the three relative price groups yield nine subgroups formed on profitability and relative price. The index represents the average return of the three high-profitability subgroups. It is rebalanced twice per year. Profitability is measured as operating income before depreciation and amortization minus interest expense scaled by book. Source: CRSP and Compustat.

**Dimensional US Low Profitability Index** was created by Dimensional in January 2014 and represents an index consisting of US companies. It is compiled by Dimensional. Dimensional sorts stocks into three profitability groups from high to low. Each group represents one-third of the market capitalization. Similarly, stocks are sorted into three relative price groups. The intersections of the three profitability groups and the three relative price groups yield nine subgroups formed on profitability and relative price. The index represents the average return of the three low-profitability subgroups. It is rebalanced twice per year. Profitability is measured as operating income before depreciation and amortization minus interest expense scaled by book. Source: CRSP and Compustat.

**Dimensional International Small Cap Index** was created by Dimensional in April 2008 and is compiled by Dimensional. July 1981–December 1993: It Includes non-US developed securities in the bottom 10% of market capitalization in each eligible country. All securities are market capitalization weighted. Each country is capped at 50%. Rebalanced semiannually. January 1994–Present: Market-capitalization-weighted index of small company securities in the eligible markets excluding those with the lowest profitability and highest relative price within the small cap universe. Profitability is measured as operating income before depreciation and amortization minus interest expense scaled by book. The index monthly returns are computed as the simple average of the monthly returns of four sub-indices, each one reconstituted once a year at the end of a different quarter of the year. Prior to July 1981, the index is 50% UK and 50% Japan. The calculation methodology for the Dimensional International Small Cap Index was amended on January 1, 2014, to include profitability as a factor in selecting securities for inclusion in the index.

# Index Descriptions

**Dimensional International Low Profitability Index** was created by Dimensional in January 2013 and represents an index consisting of non-US developed companies. It is compiled by Dimensional. Dimensional sorts stocks into three profitability groups from high to low. Each group represents one-third of the market capitalization of each eligible country. Similarly, stocks are sorted into three relative price groups. The intersections of the three profitability groups and the three relative price groups yield nine subgroups formed on profitability and relative price. The index represents the average return of the three low-profitability subgroups. The index is rebalanced twice per year. Profitability is measured as operating income before depreciation and amortization minus interest expense scaled by book. Source: Bloomberg.

**Dimensional International High Profitability Index** was created by Dimensional in January 2013 and represents an index consisting of non-US developed companies. It is compiled by Dimensional. Dimensional sorts stocks into three profitability groups from high to low. Each group represents one-third of the market capitalization of each eligible country. Similarly, stocks are sorted into three relative price groups. The intersections of the three profitability groups and the three relative price groups yield nine subgroups formed on profitability and relative price. The index represents the average return of the three high-profitability subgroups. The index is rebalanced twice per year. Profitability is measured as operating income before depreciation and amortization minus interest expense scaled by book. Source: Bloomberg.

**Dimensional Emerging Markets Low Profitability Index** was created by Dimensional in April 2013 and represents an index consisting of emerging markets companies and is compiled by Dimensional. Dimensional sorts stocks into three profitability groups from high to low. Each group represents one-third of the market capitalization of each eligible country. Similarly, stocks are sorted into three relative price groups. The intersections of the three profitability groups and the three relative price groups yield nine subgroups formed on profitability and relative price. The index represents the average return of the three low-profitability subgroups. The index is rebalanced twice per year. Profitability is measured as operating income before depreciation and amortization minus interest expense scaled by book. Source: Bloomberg.

**Dimensional Emerging Markets High Profitability Index** was created by Dimensional in April 2013 and represents an index consisting of emerging markets companies and is compiled by Dimensional. Dimensional sorts stocks into three profitability groups from high to low. Each group represents one-third of the market capitalization of each eligible country. Similarly, stocks are sorted into three relative price groups. The intersections of the three profitability groups and the three relative price groups yield nine subgroups formed on profitability and relative price. The index represents the average return of the three high-profitability subgroups. The index is rebalanced twice per year. Profitability is measured as operating income before depreciation and amortization minus interest expense scaled by book. Source: Bloomberg.

**Dimensional Emerging Markets Small Cap Index** was created by Dimensional in April 2008 and is compiled by Dimensional. January 1989–December 1993: Fama/French Emerging Markets Small Cap Index. January 1994–Present: Dimensional Emerging Markets Small Index Composition: Market-capitalization-weighted index of small company securities in the eligible markets excluding those with the lowest profitability and highest relative price within the small cap universe. Profitability is measured as operating income before depreciation and amortization minus interest expense scaled by book. The index monthly returns are computed as the simple average of the monthly returns of four sub-indices, each one reconstituted once a year at the end of a different quarter of the year. Source: Bloomberg. The calculation methodology for the Dimensional Emerging Markets Small Cap Index was amended on January 1, 2014, to include profitability as a factor in selecting securities for inclusion in the index.

The Dimensional Indices have been retrospectively calculated by Dimensional Fund Advisors LP and did not exist prior to their index inception dates. Accordingly, results shown during the periods prior to each Index's index inception date do not represent actual returns of the Index. Other periods selected may have different results, including losses. Backtested index performance is hypothetical and is provided for informational purposes only to indicate historical performance had the index been calculated over the relevant time periods. Backtested performance results assume the reinvestment of dividends and capital gains. Eugene Fama and Ken French are members of the Board of Directors for and provide consulting services to Dimensional Fund Advisors LP.

# Index Descriptions

**Fama/French US Value Index:** Provided by Fama/French from CRSP securities data. Includes the lower 30% in price-to-book of NYSE securities (plus NYSE Amex equivalents since July 1962 and Nasdaq equivalents since 1973).

**Fama/French US Growth Index:** Provided by Fama/French from CRSP securities data. Includes the higher 30% in price-to-book of NYSE securities (plus NYSE Amex equivalents since July 1962 and Nasdaq equivalents since 1973).

**Fama/French International Value Index:** 2008–present: Provided by Fama/French from Bloomberg securities data. Simulated strategy of MSCI EAFE + Canada countries in the lower 30% price-to-book range. 1975–2007: Provided by Fama/French from MSCI securities data.

**Fama/French International Growth Index:** 2008–present: Provided by Fama/French from Bloomberg securities data. Simulated strategy of MSCI EAFE + Canada countries in the higher 30% price-to-book range. 1975–2007: Provided by Fama/French from MSCI securities data.

**Fama/French Emerging Markets Value Index:** 2009–present: Provided by Fama/French from Bloomberg securities data. Simulated strategy using IFC investable universe countries. Companies in the lower 30% price-to-book range; companies weighted by float-adjusted market cap; countries weighted by country float-adjusted market cap; rebalanced monthly. 1989–2008: Provided by Fama/French from IFC securities data. IFC data provided by International Finance Corporation.

**Fama/French Emerging Markets Growth Index:** 2009–present: Provided by Fama/French from Bloomberg securities data. Simulated strategy using IFC investable universe countries. Companies in the higher 30% price-to-book range; companies weighted by float-adjusted market cap; countries weighted by country float-adjusted market cap; rebalanced monthly. 1989–2008: Provided by Fama/French from IFC securities data. IFC data provided by International Finance Corporation.



# REGIONAL TRANSIT ISSUE PAPER

Agenda Item No.	Board Meeting Date	Open/Closed Session	Information/Action Item	Issue Date
17	12/14/16	Retirement	Information	10/05/16

Subject: Investment Performance Review of the S&P 500 Index and MSCI EAFE Funds by State Street Global Advisors (SSgA) for the ATU, IBEW and Salaried Employee Retirement Funds for the Quarter Ended September 30, 2016 (ALL). (Bernegger)

## ISSUE

Investment Performance Review of the S&P 500 Index and MSCI EAFE Funds by State Street Global Advisors (SSgA) for the ATU, IBEW and Salaried Employee Retirement Funds for the Quarter Ended September 30, 2016 (ALL). (Bernegger)

## RECOMMENDED ACTION

Information only.

## FISCAL IMPACT

None

## DISCUSSION

Retirement funds are invested consistent with the Statement of Investment Objectives and Policy Guidelines (Policy) adopted by each Retirement Board (Board). The Board shall meet at least every eighteen (18) months with each investment manager to review the performance of its investment, the adherence to the Policy, and any material changes to its organization. The Policy also establishes the Retirement Funds' asset allocation policy and the asset classes in which the Plans' funds are invested. The asset classes established by the Policy are (1) Domestic Large Capitalization Equity, (2) Domestic Small Capitalization Equity, (3) International Large Capitalization Equity, (4) International Small Capitalization Equity, (5) International Emerging Markets, and (6) Domestic Fixed-Income.

SSgA is the fund manager for the Retirement Boards' Domestic Large Capitalization Equity S&P 500 Index Fund, as well as the Retirement Boards' International Large Capitalization Equity MSCI EAFE Index Fund. SSgA will be presenting performance results, for both funds, for the quarter ended September 30, 2016, shown on Attachment 1, and answering any questions.

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Approved:

Presented:

FINAL 11/22/2016

Chief Financial Officer, Acting

Senior Accountant

# **Sacramento Regional Transit District Employees**

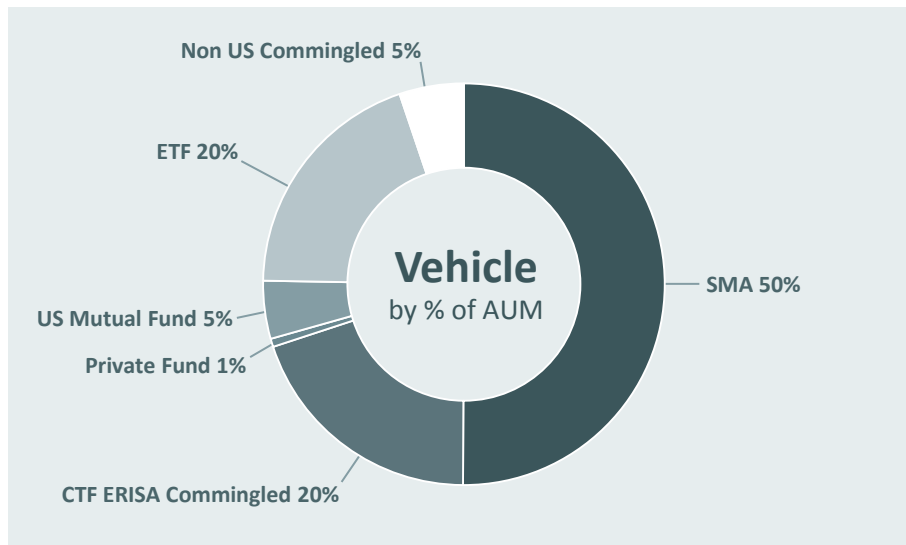
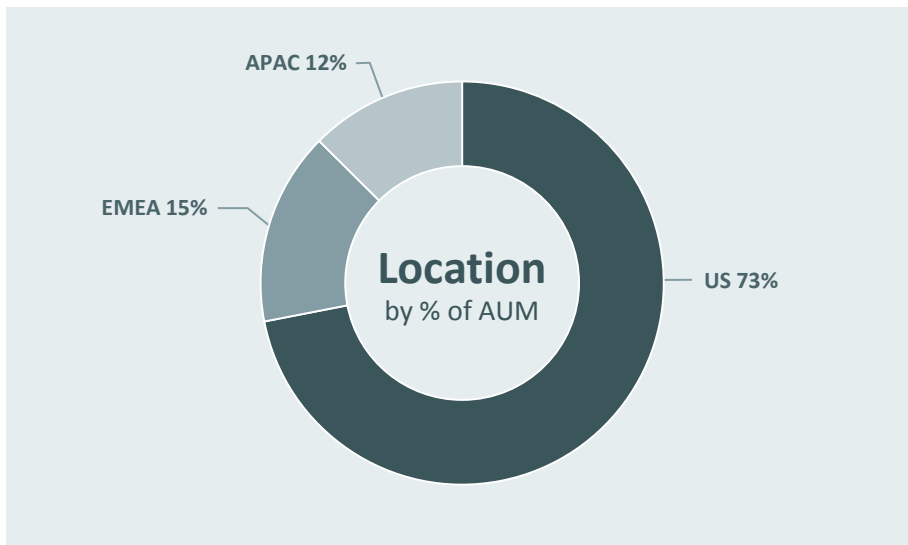
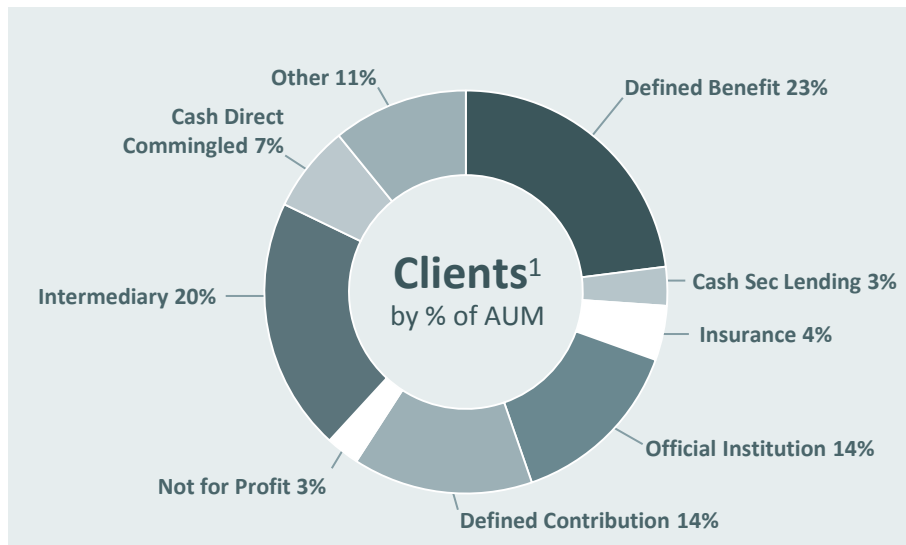
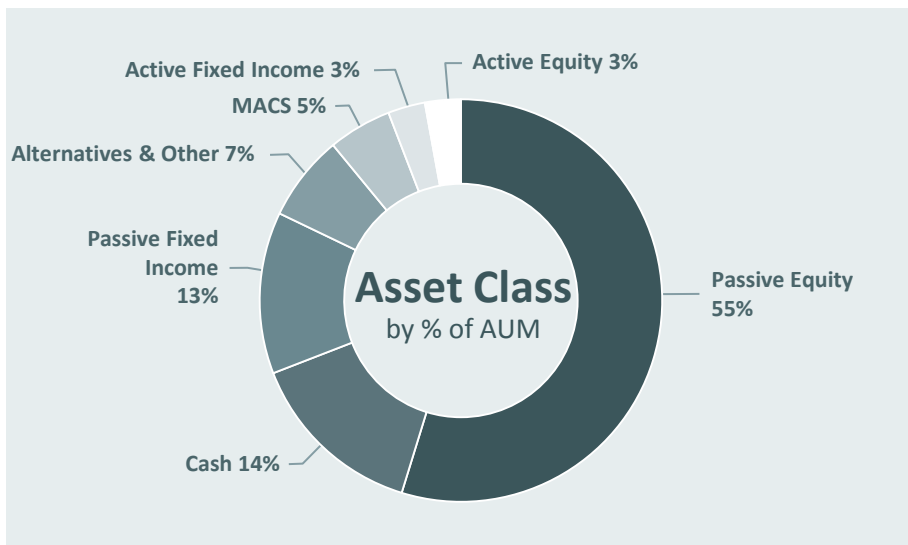
**Patrick J. Hearne**

**Arman Palian**

December 14, 2016

This material is solely for the private use of Sacramento Regional Transit District Employees and is not intended for public dissemination.

# \$2.4 Trillion in Assets Under Management\*



As of September 30, 2016.

\* AUM reflects approx. \$40.29 billion (as of September 30, 2016) with respect to which State Street Global Markets, LLC (SSGM) serves as marketing agent; SSGM and State Street Global Advisors are affiliated.

<sup>1</sup> Official Institutions is a client type that includes all plan type assets including DB and DC.

# Business Leadership Team



**Ronald P. O'Hanley**  
*President & CEO*



**Alyssa Albertelli**  
*Chief Compliance Officer*



**Marc Brown**  
*Chief Administrative Officer*



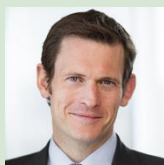
**Lochiel Crafter**  
*Head of Asia Pacific*



**Kem Danner**  
*Head of Human Resources*



**Phillip S. Gillespie**  
*General Counsel*



**Nick Good**  
*Co-Head of Global SPDR*



**Mike Karpik**  
*Head of Europe, Middle East & Africa*



**Steve Lipiner**  
*Chief Financial Officer*



**Jim Ross**  
*Chairman of Global SPDR*



**Barry FX Smith**  
*Head of Americas Institutional Client Group*



**Matt Steinaway**  
*Chief Risk Officer*



**Cyrus Taraporevala**  
*Head of Global Product & Marketing*



**Rory Tobin**  
*Co-Head of Global SPDR*

As of September 30, 2016.

# Sacramento Regional Transit District Employees

## Investment Summary

As of September 30, 2016

	Market Value
State Street MSCI EAFE Index NL Fund	\$9,248,739
State Street S&P 500 Flagship NL Fund	41,641,388
<b>Total</b>	<b>\$50,890,127</b>

## Statement of Asset Changes

The following changes took place in the Retirement Plan for Sacramento Regional Transit District Employees account for the period of October 01, 2015 to September 30, 2016:

	Market Value 10/01/2015	Contributions	Withdrawals	Change in Market Value*	Market Value 9/30/2016
State Street MSCI EAFE Index NL Fund	\$20,473,044	—	\$(12,201,601)	\$977,296	\$9,248,739
State Street S&P 500 Flagship NL Fund	37,177,586	—	(1,253,249)	5,717,051	41,641,388
<b>Total</b>	<b>\$57,650,630</b>	<b>—</b>	<b>\$(13,454,850)</b>	<b>\$6,694,347</b>	<b>\$50,890,127</b>

Source: SSGA.

\* Includes dividends, interest, and realized/unrealized gains and losses. Past performance is not a guarantee of future results.

# Sacramento Regional Transit District Employees

## Summary of Performance

Following are the gross and net returns for the Sacramento Regional Transit District Employees portfolios versus the corresponding benchmarks as of September 30, 2016:

	One Month	Three Months	Year to Date	Last 12 Months	Three Years	Five Years	Since Inception
<b>State Street MSCI EAFE Index NL Fund</b>							<b>June/2012</b>
Total Returns	1.26%	6.48%	2.06%	6.88%	0.79%	N/A	7.66%
MSCI EAFE® Index	1.23	6.43	1.73	6.52	0.48	N/A	7.34
<b>Difference†</b>	<b>0.03</b>	<b>0.05</b>	<b>0.33</b>	<b>0.36</b>	<b>0.31</b>	<b>N/A</b>	<b>0.32</b>
Total Returns [Net]	1.25	6.46	1.99	6.78	0.69	N/A	N/A
MSCI EAFE® Index	1.23	6.43	1.73	6.52	0.48	N/A	N/A
<b>Difference†</b>	<b>0.02</b>	<b>0.03</b>	<b>0.26</b>	<b>0.26</b>	<b>0.21</b>	<b>N/A</b>	<b>N/A</b>
<b>State Street S&amp;P 500 Flagship NL Fund</b>							<b>June/2012</b>
Total Returns	0.02	3.88	7.87	15.50	11.21	N/A	14.07
S&P 500®	0.02	3.85	7.84	15.43	11.16	N/A	14.01
<b>Difference†</b>	<b>0.00</b>	<b>0.03</b>	<b>0.03</b>	<b>0.07</b>	<b>0.05</b>	<b>N/A</b>	<b>0.06</b>
Total Returns (Net)	0.02	3.87	7.83	15.44	11.16	N/A	N/A
S&P 500®	0.02	3.85	7.84	15.43	11.16	N/A	N/A
<b>Difference†</b>	<b>0.00</b>	<b>0.02</b>	<b>-0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>N/A</b>	<b>N/A</b>

Source: SSGA.

† The calculation method for value added returns may show rounding differences.

Past performance is not a guarantee of future results.

Return periods of less than one year are not annualized. The performance figures contained herein are provided on a gross and net of fees basis, gross of fees do not and net of fees do reflect the deduction of advisory or other fees which could reduce the return. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars.

Index returns reflect capital gains and losses, income, and the reinvestment of dividends.

# Table of Contents

1. State Street Global Advisors: Firm Overview
2. Account Summary
3. Global Equity Beta Solutions Overview
4. Portfolio Review for MSCI EAFE<sup>®</sup> Index Strategy
5. Portfolio Review for S&P 500<sup>®</sup> Index Strategy

## Appendices

Appendix A: GIPS<sup>®</sup> Presentations

Appendix B: Important Disclosures

Appendix C: Biographies

The information contained in this document is current as of the date presented unless otherwise noted.

# State Street Global Advisors Firm Overview



# State Street

Responsible for 11% of the world's assets<sup>1</sup> —  
with four businesses under one strong global enterprise

## STATE STREET

<b>State Street Global Advisors</b> <i>Asset Management</i>	<b>State Street Global Services</b> <i>Asset Servicing</i>	<b>State Street Global Markets</b> <i>Research &amp; Trading</i>	<b>State Street Global Exchange</b> <i>Data &amp; Analytics</i>
<b>Developing investment strategies that aim to make the best use of client capital</b>	<b>Maintaining the inventory of client capital and dividends/ interest owing products</b>	<b>Research and trading solutions that can improve the efficient use of client capital</b>	<b>Delivering new insights into risk management and investment strategy</b>
<ul style="list-style-type: none"> <li>• Proven experience, with <b>US\$2.4 trillion</b> in assets under management<sup>2</sup> as of September 30, 2016</li> <li>• Investment management strengths spanning active, passive, smart-beta, alternatives and multi-asset solutions (including Outsourced Chief Investment Officer)</li> </ul>	<ul style="list-style-type: none"> <li>• Assets under custody and administration of <b>US\$29 trillion</b> as of September 30, 2016</li> <li>• One of the <b>world's leading investment service providers</b></li> <li>• Fund accounting and administration, custody, investment operations outsourcing, recordkeeping, performance and analytics, and transfer agency services</li> </ul>	<ul style="list-style-type: none"> <li>• Global leader in investment research, trading and securities lending</li> <li>• Providing liquidity across <b>36 international markets</b>, with approximately <b>US\$3.23 trillion</b> in lendable assets as of September 30, 2016</li> <li>• <b>US\$23.5 trillion</b> in foreign exchange and interbank volume traded in 2015</li> </ul>	<ul style="list-style-type: none"> <li>• Aligning research and advisory, portfolio performance and risk analytics, information and data management to deliver innovation</li> <li>• Customized and flexible multi-asset class products and services</li> </ul>

<sup>1</sup> State Street and McKinsey Global Institute, June 30, 2015.

<sup>2</sup> AUM reflects approx. \$40.29 billion (as of September 30, 2016) with respect to which State Street Global Markets, LLC (SSGM) serves as marketing agent; SSGM and State Street Global Advisors are affiliated.

# State Street Global Advisors

The third largest asset manager in the world — well positioned to leverage State Street's global scale, infrastructure and relationships

## STATE STREET

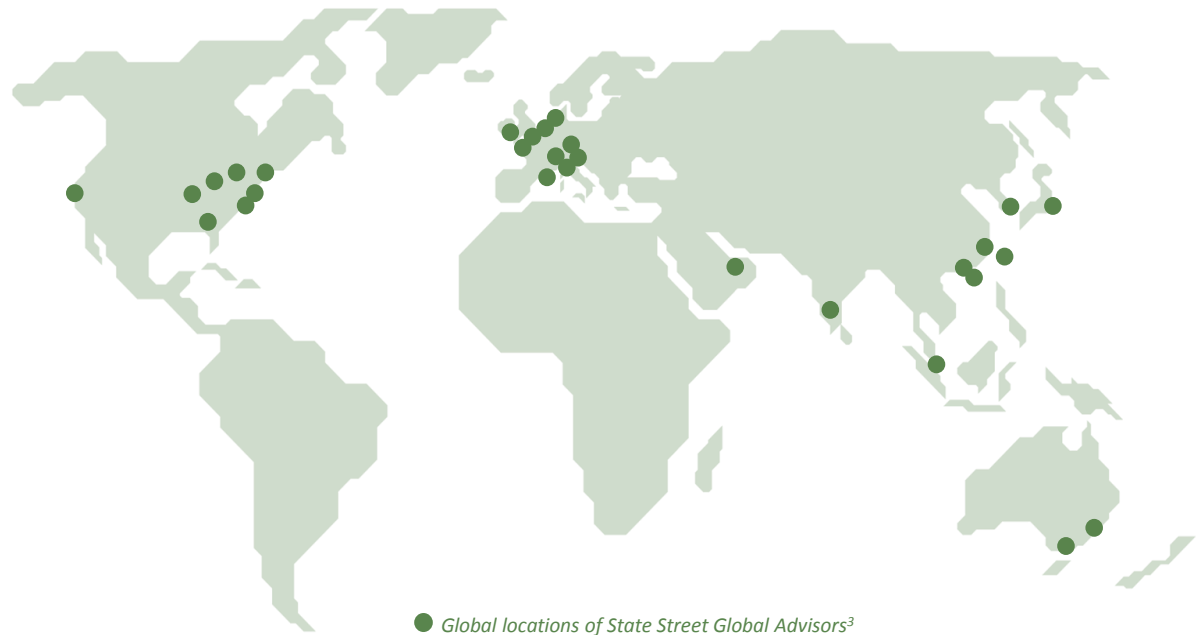
**State Street Global Advisors**  
*Asset Management*

**State Street Global Services**  
*Asset Servicing*

**State Street Global Markets**  
*Research & Trading*

**State Street Global Exchange**  
*Data & Analytics*

- #3** global asset manager<sup>1</sup>
- \$2.3 trillion**<sup>2</sup> in assets
- 2850+** clients
- 13** million DC participants
- 63** countries with clients
- 9** investment centers
- 14** product domiciles
- 24-hour** global trading capability
- 2800+** employees around the world



As of September 30, 2016.

<sup>1</sup> Pensions and Investments Research Center, December 31, 2015. Updated Annually.

<sup>2</sup> AUM reflects approx. \$40.29 billion (as of September 30, 2016) with respect to which State Street Global Markets, LLC (SSGM) serves as marketing agent; SSGM and State Street Global Advisors are affiliated.

<sup>3</sup> Locations can be found in the following countries: Australia, Belgium, Canada, United Arab Emirates (Dubai), France, Germany, Hong Kong, Ireland, Italy, Japan, Netherlands, Singapore, Switzerland, United Kingdom, and United States.

# Why Clients Choose State Street Global Advisors

## Global Insights & Experience

We have the size, scale and global perspectives to develop innovative solutions to changing markets

## Comprehensive Capabilities

We offer a comprehensive set of capabilities spanning active, passive, smart beta, alternatives, and multi-asset solutions

## Collaboration & Outcome Focus

We collaborate with the world's largest, most sophisticated investors and financial professionals to co-create solutions to help them reach their goals

## Fiduciary Mindset

Putting our clients' long-term interests ahead of our own has been part of State Street's culture for more than 200 years

# Our Investment Philosophy

## WE BELIEVE:

### Understanding the multiple dimensions

of a client's long-term objectives and liabilities is key to creating successful investment outcomes



### Asset allocation

is the primary driver of long-term returns:

- Investors need efficient access to a broad universe of capital market exposures
- Focus should be on underlying risks, not asset class labels



### Markets

are not always efficient due to behavioral biases, informational inefficiencies and limits to arbitrage, leading to opportunities for excess return



### Capital- & risk-efficient portfolios

can be achieved through a thoughtful and precise combination of market risk, factor risk, idiosyncratic risk and manager skill



# The New Investment Reality

## Investor Challenges and Needs

### ***Depressed Interest Rates***

*Search for yield  
more challenging*

### ***Lower-for-Longer Growth***

*Lower return targets or take  
on more risk*

*Rethink portfolio approaches  
to diversification and growth*

### ***Growing Risks to the Downside***

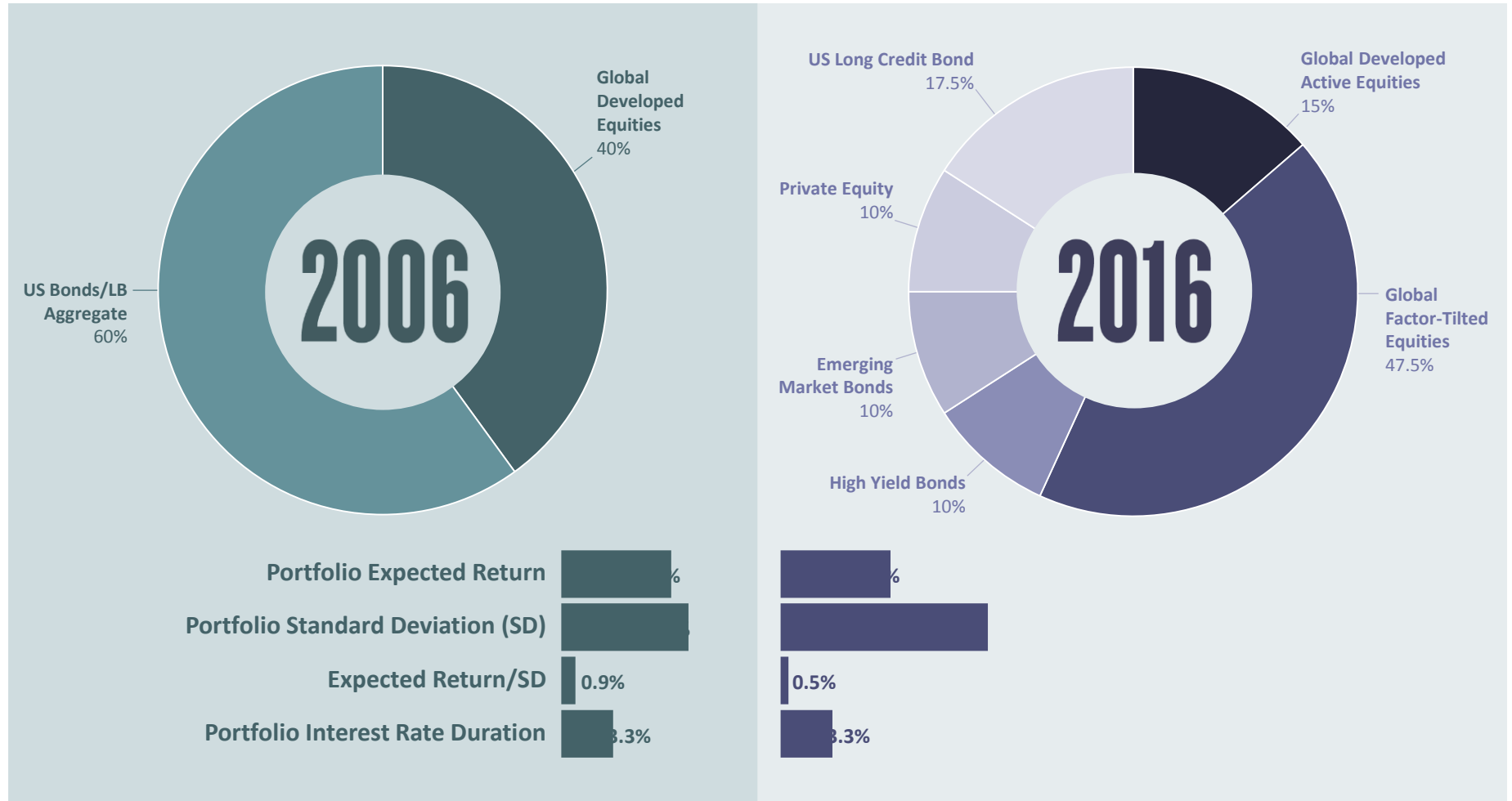
*Manage volatility and  
drawdown risk as  
capital recovery  
takes longer*

### ***Costs Play Greater Role in Outcomes***

*More systematic and  
capital-efficient solutions*

# The New Investment Reality

## Increased Portfolio Complexity in a Challenging Return Environment



**For illustrative purposes only.** The information on this page should not be considered a recommendation to invest in a particular sector or to buy or sell any security shown. It is not known whether the sectors or securities shown will be profitable in the future. The information provided does not constitute investment advice and it should not be relied on as such. It should not be considered a solicitation to buy or an offer to sell a security. It does not take into account any investor's particular investment objectives, strategies, tax status or investment horizon. You should consult your tax and financial advisor. Diversification does not ensure a profit or guarantee against loss.

# Capabilities

## BETA

- **Equity**
- **Fixed Income**
  - Credit
  - Rates
- **Real Assets**
- **Currency**
- **Cash**

## SMART BETA

- **Equity/Fixed Income**
  - Value
  - Volatility
  - Momentum
  - Size
  - Quality
  - Term spread
  - Carry
  - Multi-factor

## ACTIVE

- **Fundamental Equity**
- **Fixed Income**
- **Quantitative Equity**
- **Currency**
- **Cash**

## ALTERNATIVES

- **Private Equity**
- **Private Real Estate**
- **Hedge Funds**
- **Commodities**
- **Risk Premia**

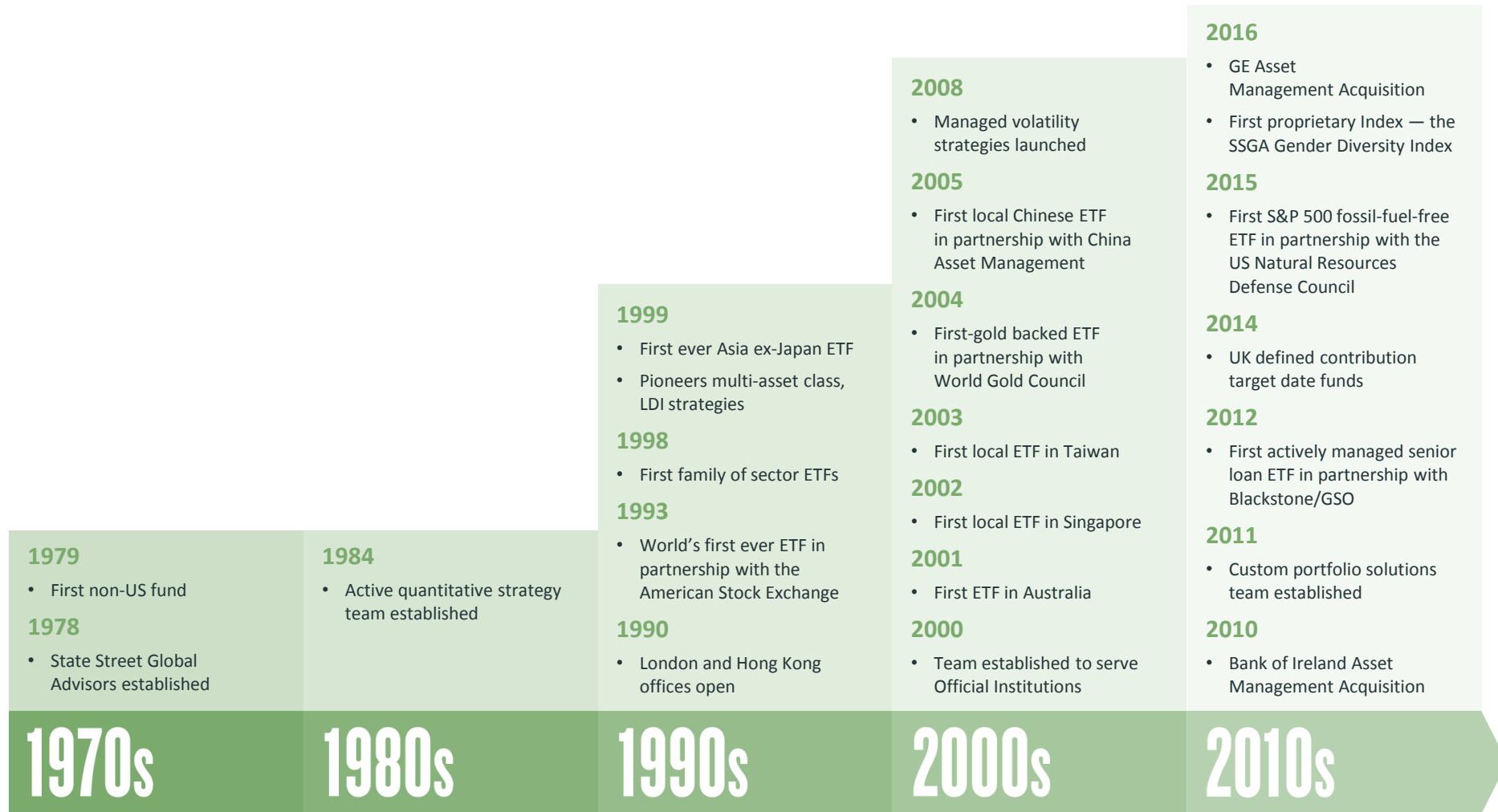
*Comprehensive Suite of Solutions*

**Asset Allocation & Portfolio Solutions Management**

**Outsourced CIO**

# Our History of Innovation

Constantly evolving and building on  
over 200 years of heritage





# Global Investment Team



**Rick Lacaille**  
Global CIO



**Lynn Blake**  
CIO, Global Equity  
Beta Solutions



**Paul Colonna**  
CIO, Active Fundamental  
Equity & Fixed Income



**Lori Heinel**  
Deputy Global CIO



**Dan Farley**  
CIO, Investment  
Solutions Group



**Ted Gekas**  
CIO, Active  
Quantitative Equities



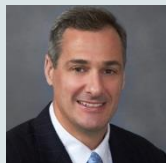
**Ralph Layman**  
Vice Chairman



**Steve Meier**  
CIO, Global Fixed Income,  
Currency & Cash



**Chris Rice**  
Global Head of  
Trading



**Don Torey**  
CIO, Alternative  
Investments



**Bill Street**  
Head of Investments,  
EMEA  
Dual Manager  
Mike Karpik



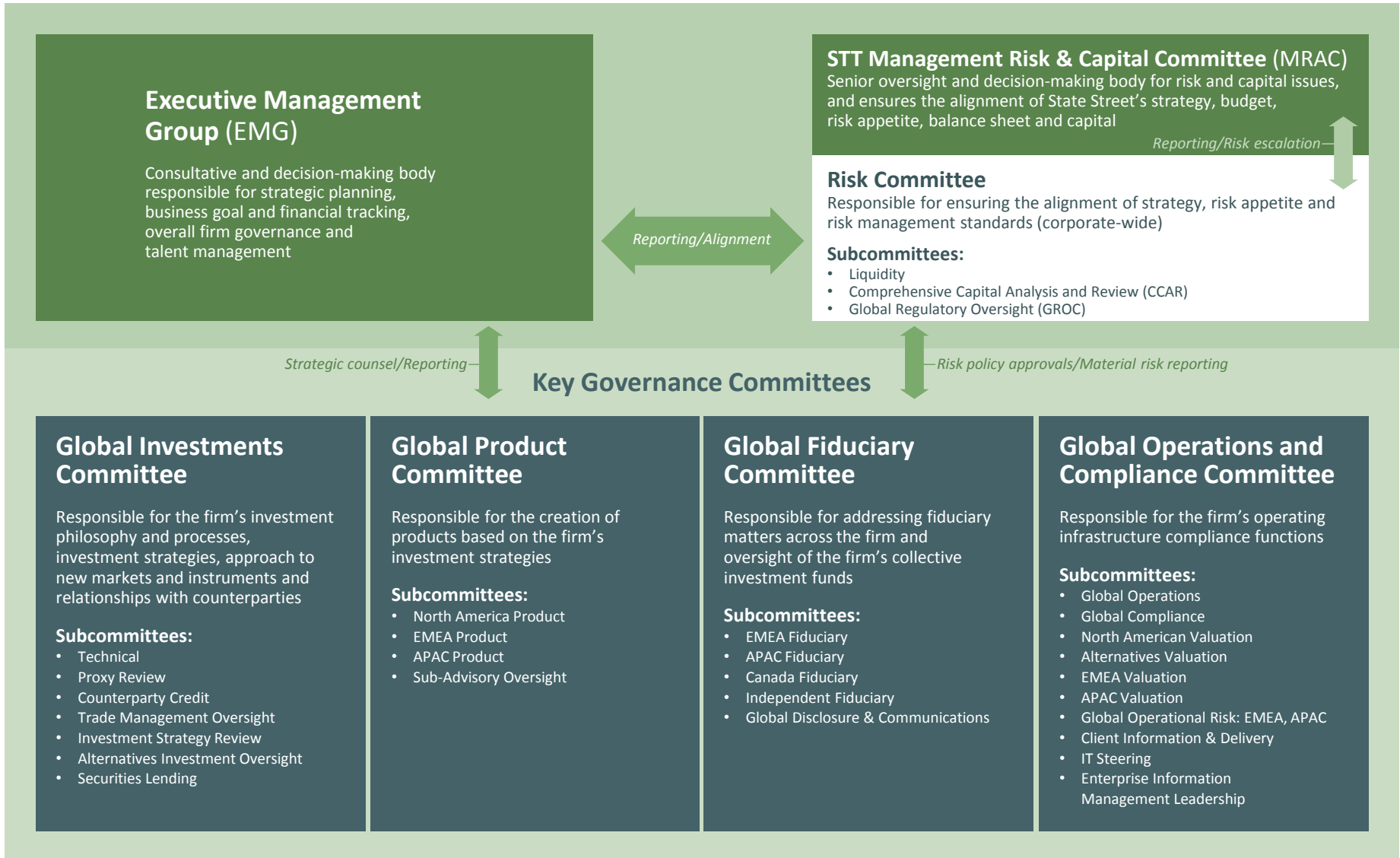
**Kevin Anderson**  
Head of Investments,  
APAC  
Dual Manager  
Loch Crafter



**Hideki Takayama**  
CIO, Japan  
Dual Manager  
Koji Yamamoto

As of September 30, 2016.

# Governance Structure



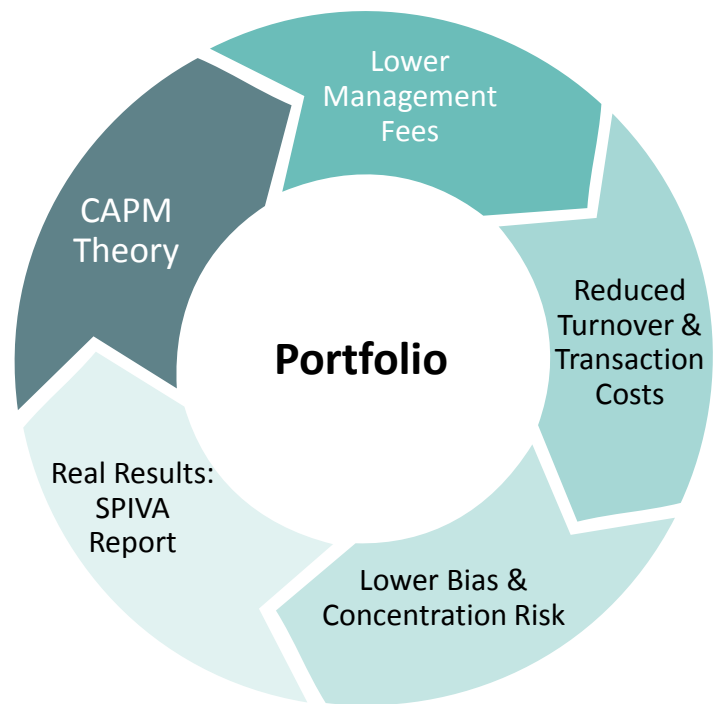
As of November 1, 2016.

# Account Summary

# Global Equity Beta Solutions Overview

# Potential Benefits of Indexing

There are a number of potential benefits to passive investing, both **theoretical** and **empirical**



Capital Asset Pricing Model	Lower Management Fees	Turnover & Transaction Costs	Lower Bias & Concentration Risk	S&P SPIVA Report
The optimal portfolio is the market portfolio	Often lower management fees than active	Can offer cost-efficiencies of lower turnover and transaction costs	Avoids manager biases and concentration risk	Performance of active versus S&P indices

Source: SSGA.  
Please see Important Disclosures at the end of this presentation for additional information.

# Philosophy and Competitive Advantages

## What we do

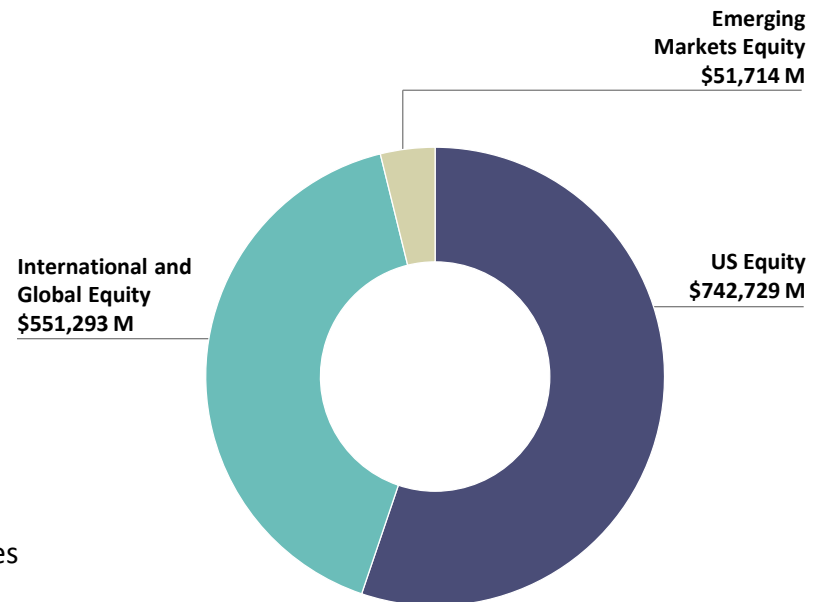
- Seek to deliver returns that our clients want and expect at the lowest possible implementation cost

## How we strive to do it better

- Experienced, tenured team of portfolio managers
  - GEBS team in six investment centers worldwide
  - Market-leading infrastructure and proprietary portfolio construction tools
- Size and scale
  - Significant asset base and economies of scale
  - Substantial liquidity and diversity of client accounts (flows)
- Modular approach to product lineup
  - Flexible, customizable solutions
  - Breadth of commingled funds available
- Innovative, client-tailored solutions
  - Traditional beta, ETFs, rules-based and factor tilted indexing strategies
  - Strong, proprietary research capability

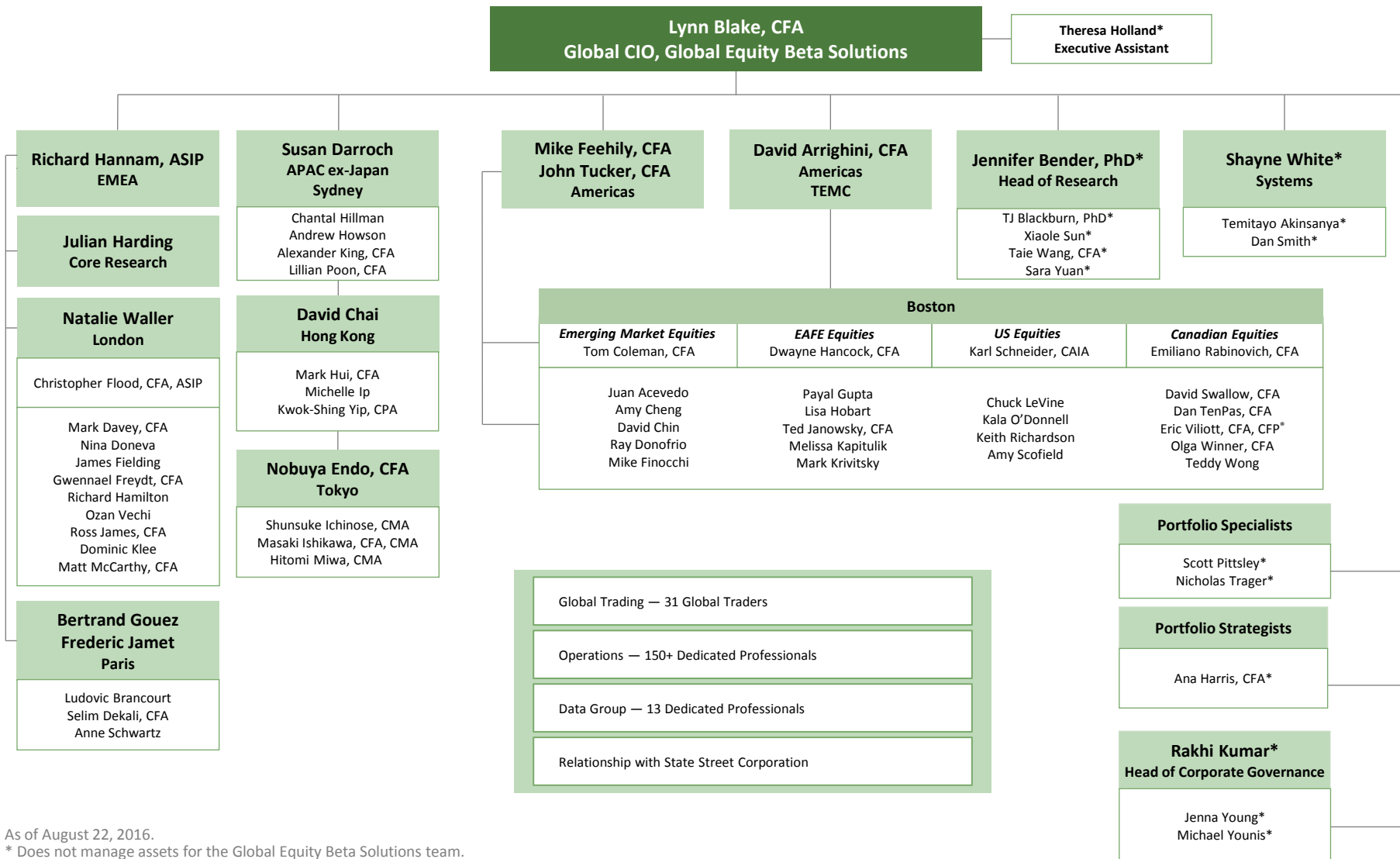
## Total Team Assets Under Management

\$1.35 Trillion (USD) as of September 30, 2016



Source: SSGA as of September 30, 2016.

# Global Equity Beta Solutions



As of August 22, 2016.

\* Does not manage assets for the Global Equity Beta Solutions team.

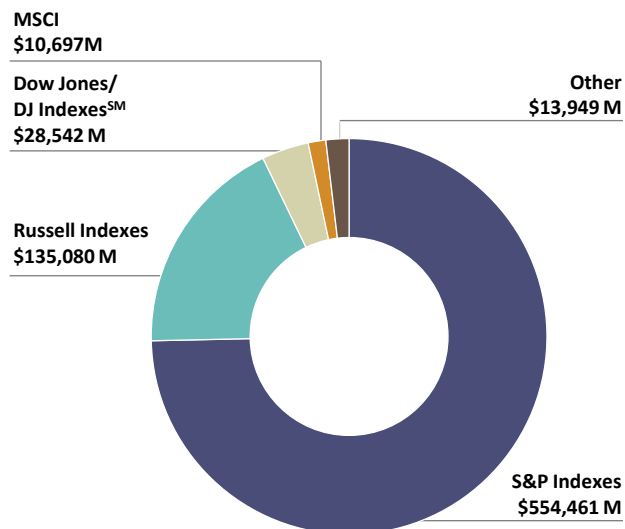
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# A Leading Manager of Global Indexed Assets

## Total Passive Equity Assets Under Management: \$1.35 Trillion (USD) as of September 30, 2016

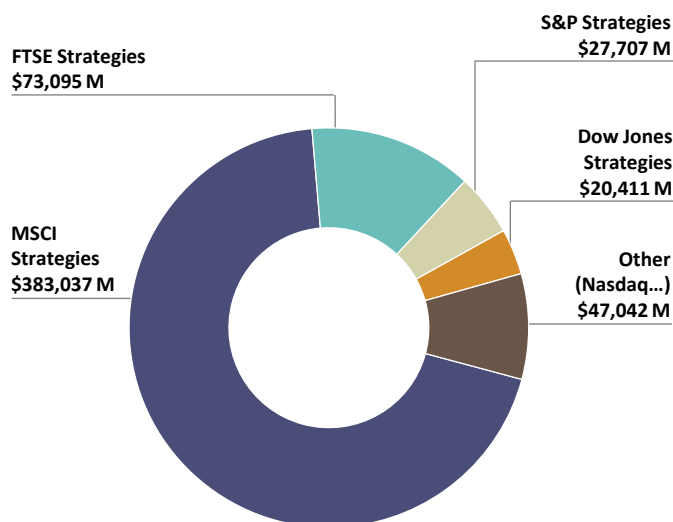
### US Index Assets Under Management

\$742,729 Million as of September 30, 2016



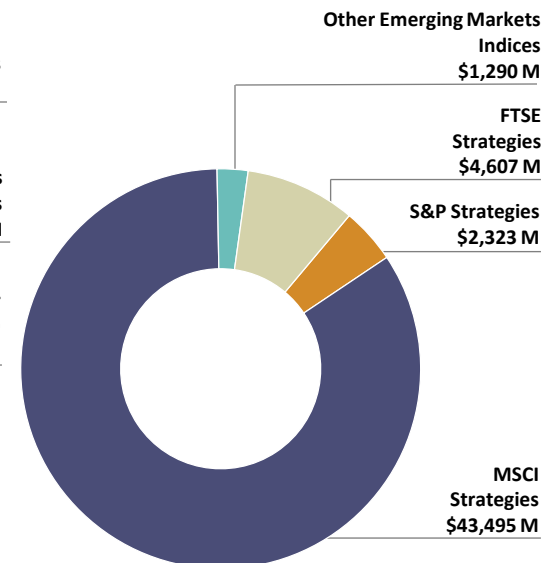
### International and Global Equity AUM

\$551,293 Million as of September 30, 2016



### Emerging Markets Equity AUM

\$501,7114 Million as September 30, 2016\*



Source: SSGA as of September 30, 2016.

\* Exclusive of Emerging Markets Equities invested in other MSCI-benchmarked strategies such as MSCI ACWI and MSCI ACWI ex US.

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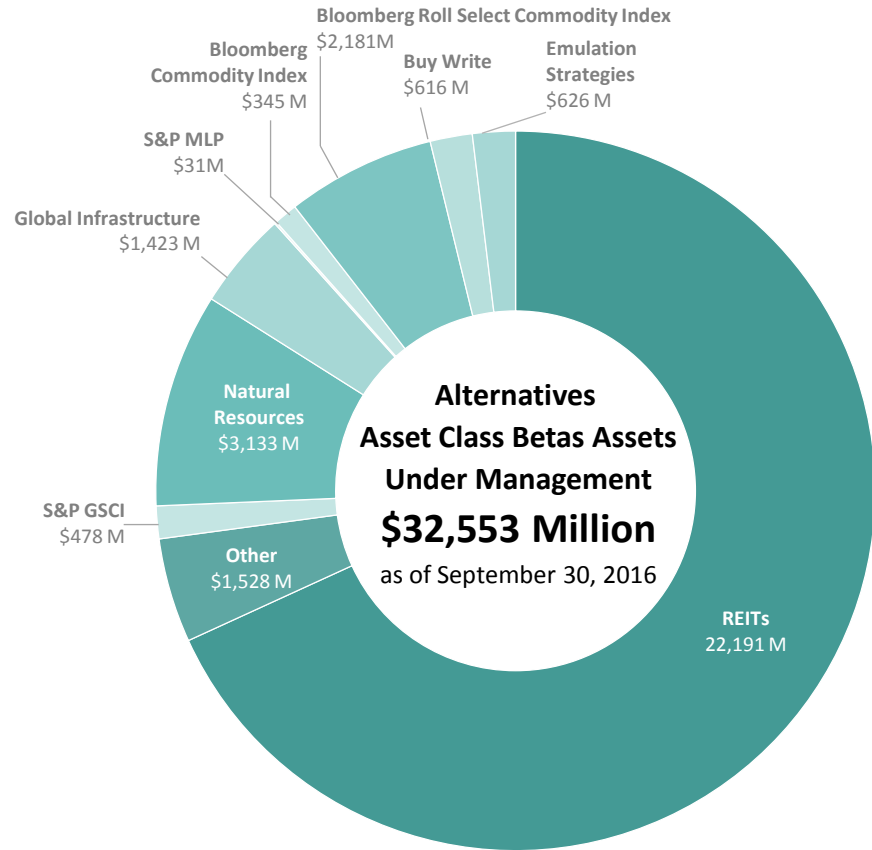
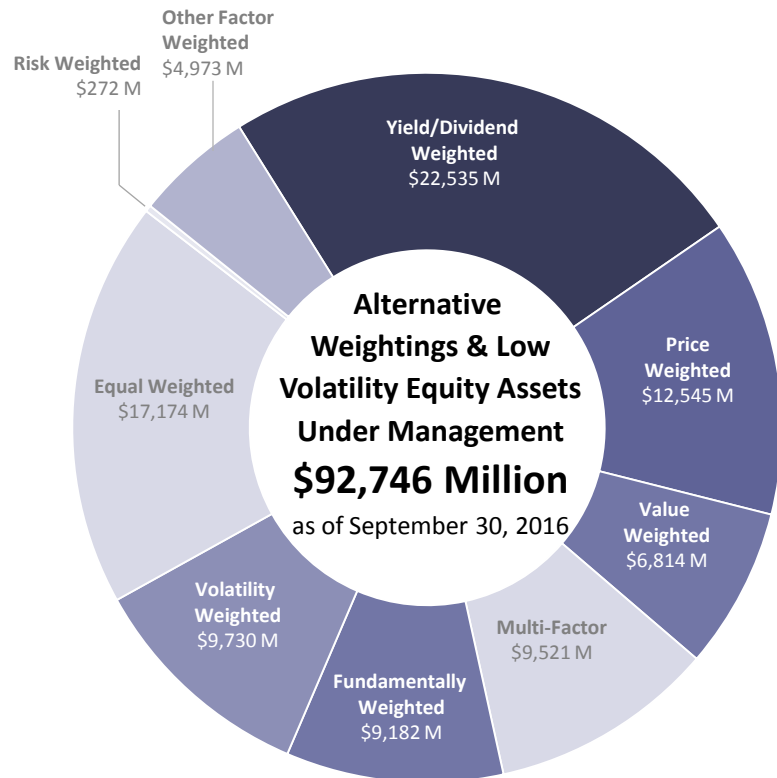
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# Smart Betas and Alternative Asset Betas

Total Smart Betas and Alternative Asset Betas AUM:  
**\$125,299 Million (USD)** as of September 30, 2016

Rules-Based and Factor-Tilting Strategies, Low-Volatility Equity, Commodities, REITs & Additional Alternative Asset Classes



Source: SSGA as of September 30, 2016.

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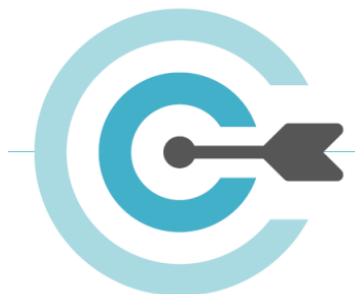
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# Equity Exposure in Any Market Segment

	Large Cap/Broad Market	Medium/Small Cap	Style/Sector	Smart Beta/Commodities/ESG
<b>US Equity</b>	<p>Dow Jones Industrial Average  Dow Jones US Total Stock Market Index  Dow Jones US Large-Cap Total Market Index  MSCI US Index  MSCI US Investable Market 2500 Index  Russell 1000<sup>®</sup> Index  Russell 3000<sup>®</sup> Index  Russell Top 200 Index  Russell Top 50 Index  S&amp;P 100<sup>®</sup> Index  S&amp;P 500<sup>®</sup> Index  S&amp;P 500<sup>®</sup> Buyback Index  S&amp;P 500<sup>®</sup> Index Futures Strategy  NASDAQ 100 Stock Index</p>	<p>Dow Jones Completion Total Stock Market Index  MSCI USA Small Cap Index  Russell 2000<sup>®</sup> Index  Russell 2000<sup>®</sup> Index Futures Strategy  Russell 2500<sup>®</sup> Index  Russell MidCap Index  Russell Small Cap Completeness Index  S&amp;P MidCap 400<sup>®</sup> Index  S&amp;P SmallCap 600<sup>®</sup> Index</p>	<p>S&amp;P 500 Growth/Value Indices  S&amp;P Mid Cap 400<sup>®</sup> Growth/Value Indices  S&amp;P Small Cap 600<sup>®</sup> Growth/Value Indices  S&amp;P Select Sector Indices  S&amp;P Industry Indices  Russell 1000<sup>®</sup> Growth/Value Indices  Russell 2000<sup>®</sup> Growth/Value Indices  Russell 2500 Growth Index  Russell Mid Cap Growth Index  Russell Top 200 Value Index  MSCI MidCap Growth Index  MSCI MidCap Value Index</p>	<p>Bloomberg Commodity and Roll Select Indices  FTSE RAFI US 1000 Index  Russell 1000 &amp; 2000 Low Volatility Indices  Russell 3000<sup>®</sup> Screened Index  Russell Fundamental US Index  Russell Defensive Indices  S&amp;P 500<sup>®</sup> Equal Weighted Index  S&amp;P 500<sup>®</sup> Screened Index  S&amp;P 1500 Momentum and Value Tilt Indices  S&amp;P GSCI Index  S&amp;P High Yield Dividend Aristocrats Index  S&amp;P MLP Index  SSGA Managed Volatility Strategy  SSGA Multi Factor Strategies  SSGA Quality Tilted Strategy  SSGA Rules-Based Strategies  SSGA Valuation Tilted Strategy</p>
<b>Intl and Developed Equity</b>	<p>Dow Jones Global Stock Market Index  FTSE Country Funds  MSCI ACWI Indices  MSCI ACWI Investable Market Index  MSCI Country Funds  MSCI EAFE Index  MSCI EAFE Index Futures Strategy  MSCI Euro/Europe Indices  MSCI North America Index  MSCI Pacific Index  MSCI Pacific ex-Japan Index  MSCI Regional Funds  MSCI World Indices  Russell/Nomura PRIME™ Index  S&amp;P Developed ex-US LargeMidCap Index  S&amp;P Developed ex-US BMI Index  S&amp;P Country Funds  S&amp;P EPAC LargeMidCap Index  STOXX Indices</p>	<p>MSCI Australia Small Cap Index  MSCI Canada Small Cap Index  MSCI EAFE Small Cap Index  MSCI New Zealand Small Cap Index  MSCI ACWI ex-USA Small Cap Index  Russell/Nomura Japan Small Cap Index  S&amp;P Developed Asia Pacific Small Cap Index  S&amp;P Developed Europe Mid East Africa Small Cap Index  S&amp;P International Mid Cap Index  S&amp;P International Small Cap Index</p>	<p>MSCI EAFE Sector Indices  MSCI World Growth ex-US Index  S&amp;P Developed ex-US BMI Sector Indices</p>	<p>FTSE RAFI All World 3000 Index  FTSE RAFI Developed 1000 Index  MSCI ACWI Alternately Weighted Indices  MSCI ACWI Low Carbon Target Index  MSCI EAFE and World Quality Mix Indices  MSCI Regional Screened Indices  MSCI World Equal Weighted Index  MSCI World Minimum Volatility Index  MSCI World Natural Resources Index  Russell Fundamental Developed Large Company Index  Russell Fundamental Global ex-US Index  S&amp;P Global LargeMidCap Commodities and Resources Index  S&amp;P Global Infrastructure Index  S&amp;P Global Natural Resources Index  S&amp;P International Dividend Opportunities Index  SSGA Global Managed Volatility Strategies  SSGA Global Multi Factor Strategies  SSGA Global Valuation Tilted Strategies</p>
<b>Emerging Markets Equity</b>	<p>FTSE Emerging Markets Index  MSCI Emerging Market Indices  MSCI EM Beyond BRIC Index  S&amp;P Regional and Country Indices  S&amp;P Emerging BMI Indices  SSGA Frontier Markets</p>	<p>MSCI Emerging Markets Small Cap Index  S&amp;P Emerging Markets Small Cap Index</p>		<p>FTSE RAFI Emerging Markets Index  MSCI Emerging Markets Minimum Volatility Index  MSCI Emerging Markets Quality Mix  MSCI Emerging Markets Value Weighted Index  S&amp;P Emerging Markets Dividend Opportunities Index  SSGA Emerging Markets Managed Volatility Strategy</p>

# SSGA's Portfolio Management Philosophy – Passive Equities

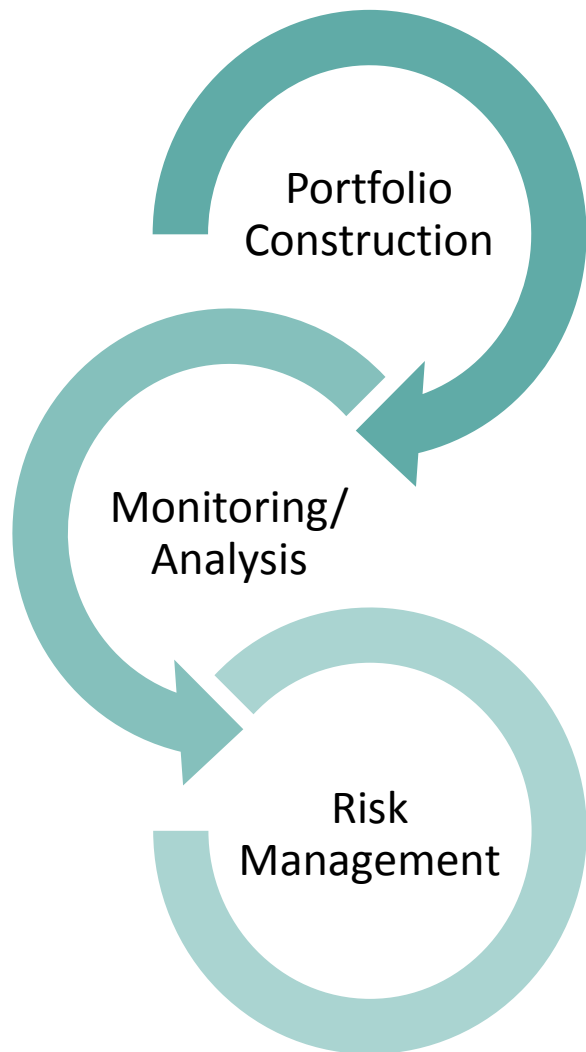
- Our objective is to deliver to each client the **returns and characteristics** of the target index
- We use the **most appropriate methodology** aimed at achieving this objective
- We believe that a **cost-efficient**, broad market exposure will help clients achieve their investment objectives
- We use a **globally consistent** investment management platform to manage portfolios



- We believe in teamwork and we promote a culture of **sharing best practices**
- There is **accountability** and each fund has a lead Portfolio Manager as the primary decision maker
- Through **research**, we innovate and aim to deliver the best possible solution for our clients
- Commitment to **process improvements** and technology enhancements

Source: SSGA.

# Portfolio Management Process Overview



## Portfolio Construction

- Complete and accurate representation of benchmark index
- Replication whenever possible with optimization available as needed
- Efficient execution of trades and precise processing of information

## Monitoring/Analysis

- Daily monitoring of portfolio positions and characteristics versus benchmark index
- Assess impact of potential changes in index and client flows in portfolio
- Review of performance and trade cost analysis

## Risk Management

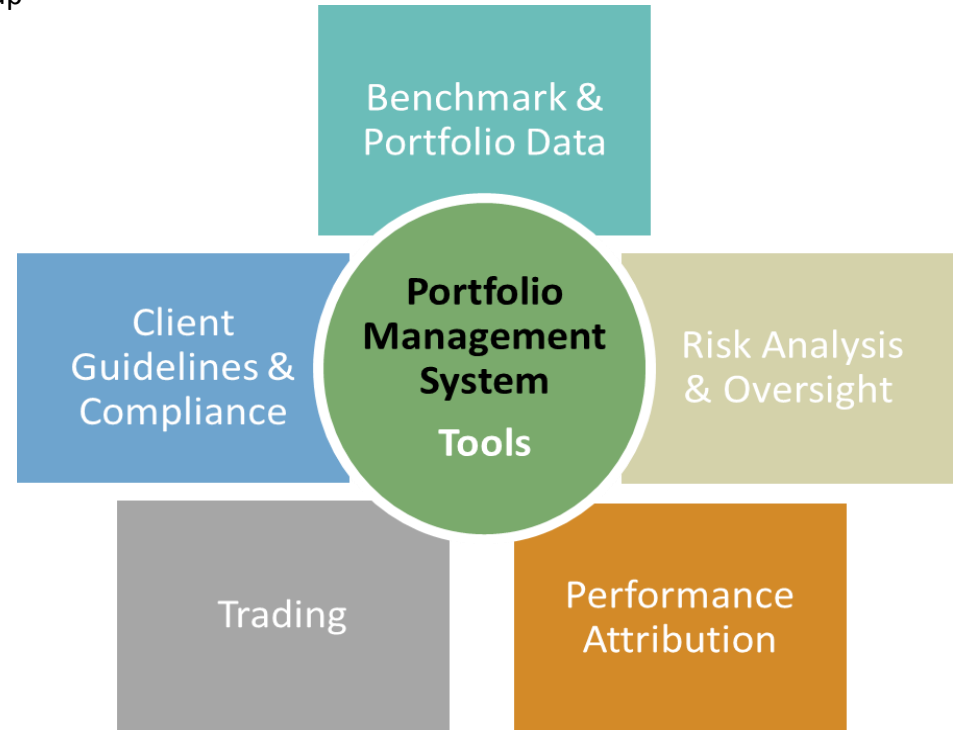
- Risk defined as under- or over-performance to the benchmark
- Pre and post-trade compliance checks
- Review of ex-ante and ex-post tracking error
- Daily holdings recon and cash flow verification/notification

Source: SSGA.  
Please see Important Disclosures at the end of this presentation for additional information.

# Portfolio Management and Support Systems Update

## Portfolio Management and Trading Systems Receive Ongoing Development

- Tools 3.1
  - Developed and supported within portfolio management group
  - Designed with input from all portfolio management sites
  - Key improvements include:
    - Straight-through processing (STP) to Trading desk
    - User interface and PM workflow
    - Cash handling
    - Dashboard for management information
- Trade Portal 2.0
  - Interface between portfolio management systems and Trading Desk
  - Allows the validation of multiple instrument types in the same basket
  - Improved speed of processing
  - Basket creation and tracking



Source: SSGA.

# Adding Value & Preserving Wealth: Portfolio Events

## Identifying the opportunity...

Indices artificially assume zero costs. In reality, there are a number of potential costs and fees.

### Index Adjustments & Rebalances:

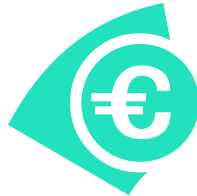
- Require trading to realign with the index

### Inflows and Outflows:

- Purchases or sales to either invest new cash or free up liquidity

### Corporate Actions:

- Non-index names are generally removed and income is invested



## How SSGA can help...

SSGA looks to preserve wealth wherever possible and pass any savings on to the client

### Crossing:

- Internally cross buys and sells to avoid market trades

### Trading Strategically:

- Limited pre- and post-trading while controlling for tracking risk
- ADRs/GDRs for illiquid names
- Cash equitized with less expensive futures

### Value-add Opportunities:

- Securities lending
- Proper handling of M&A events and rights issues

Source: SSGA.  
Please see Important Disclosures at the end of this presentation for additional information.

# SSGA Size and Internal Liquidity May Lead to Transaction Cost Savings

## US Market Case Study<sup>1</sup>

Transaction Type	Trade Value	% of Total Trade	T-Costs (%)
Market Trades (Includes Futures/ECNs/Algorithmic Trades)	\$15.9 billion	14.8%	0.01%
In-kinds <sup>4</sup> /Internal Crossing/Unit Crossing	\$91.4 billion	85.2	0.00
<b>Totals*</b>	<b>\$107.3 billion</b>	<b>100.0</b>	<b>0.00</b>
<b>Estimated Open Market Trading Costs**</b>			<b>0.08</b>
<b>Transaction Cost Savings<sup>†</sup></b>			<b>0.08%</b>

## Non-US Developed Case Study<sup>2</sup>

Transaction Type	Trade Value	% of Total Trade	T-Costs (%)
Market Trades (Includes Futures/ECNs/Algorithmic Trades)	\$9.2 billion	26.7%	0.06%
In-kinds <sup>4</sup> /Internal Crossing/Unit Crossing	\$25.2 billion	73.3	0.01
<b>Totals*</b>	<b>\$34.4 billion</b>	<b>100.0</b>	<b>0.02</b>
<b>Estimated Open Market Trading Costs**</b>			<b>0.25</b>
<b>Transaction Cost Savings<sup>†</sup></b>			<b>0.23%</b>

## Emerging Markets Case Study<sup>3</sup>

Transaction Type	Trade Value	% of Total Trade	T-Costs (%)
Market Trades (Includes Futures/ECNs/Algorithmic Trades)	\$9.7 billion	45.3%	0.27%
In-kinds <sup>4</sup> /Internal Crossing/Unit Crossing	\$11.7 billion	54.7	0.01
<b>Totals*</b>	<b>\$21.4 billion</b>	<b>100.0</b>	<b>0.12</b>
<b>Estimated Open Market Trading Costs**</b>			<b>0.40</b>
<b>Transaction Cost Savings<sup>†</sup></b>			<b>0.28%</b>

<sup>1</sup> Based on actual client order flow trading activity in the S&P 500<sup>®</sup> Defined Contribution Commingled Fund.

<sup>2</sup> Based on actual client order flow trading activity in the Bi-Monthly EAFE ERISA Commingled Funds.

<sup>3</sup> Based on actual client order flow trading activity in the Bi-Monthly Emerging Markets Non-ERISA Qualified Commingled Fund.

<sup>4</sup> In-kind transfers are redemptions/contributions made via security transfers.

\* For calendar years 2013-2015. It is not known whether similar results have been achieved after 2015.

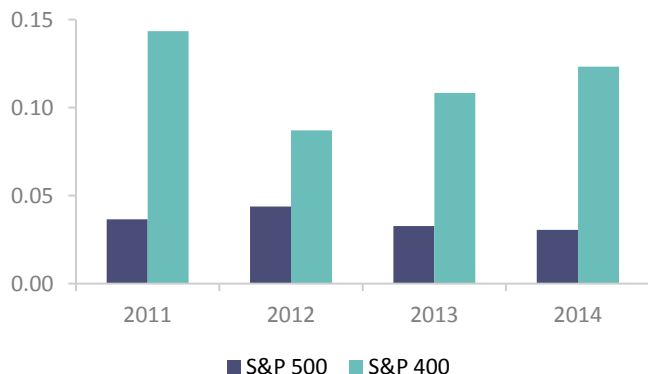
\*\* SSGA Market Cost Estimates which include commissions, bid/ask spread, market impact, and taxes/fees. Hypothetical savings are based upon estimates and reflect subjective judgments and assumptions. These results were achieved by means of a mathematical formula and do not reflect the effect of unforeseen economic and market factors on decision-making. The hypothetical savings are not necessarily indicative of future performance, which could differ substantially.

<sup>†</sup> This represents average savings across all aggregate trading over the period and there is no guarantee that a particular client transaction will experience the same level of savings. Any savings is contingent upon other activity taking place on a given transaction day. Had other funds been selected, different results of transaction cost savings would have been achieved.

# Historical Index Migration Trade Crossing

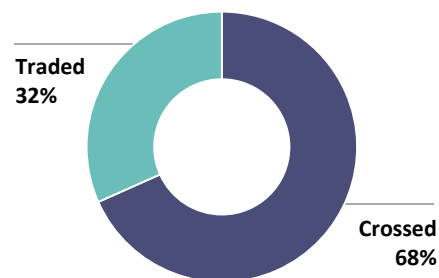
- Due to **SSGA's internal liquidity and breadth of products**, there is an opportunity to **reduce transaction costs** around many index change events
- Turnover due to index changes for our S&P 500, S&P 400 and Russell Small Cap Completeness Funds totaled over **\$29.7 billion** for the combined years 2011–2014
- “Migration trades” of securities moving between indices totaled \$12.8 billion from 2011–2014 and over **\$10.4 billion was crossed internally**. This represents an approximate crossing rate for the period of 81%.
- Estimated costs to trade a full slice of US large cap stocks in the open market is 10 bps while it costs about 20 bps for US mid/small cap stocks
- **Savings** passed on to our clients are estimated to be at least **\$15.5 million<sup>1</sup>** from 2011 to 2014

**Index-level Turnover**  
2011–2014

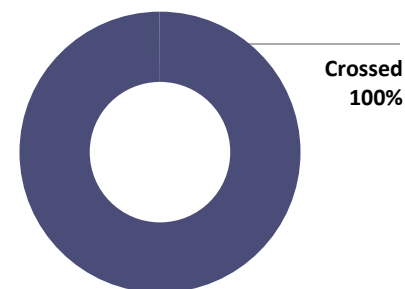


**Average Historical Migration Trade Crossing<sup>2</sup>**  
2011–2014

**S&P 500**



**S&P 400/Russell Small**



<sup>1</sup> Impact and spread cost estimates are based on calculations provided by vendor tools that specialize in these estimations but are proprietary to the vendor. Commissions, taxes, and other explicit cost estimates are based on standard schedules published within SSGA but may vary from the results experienced in actual trading.

<sup>2</sup> Weighted average by total applicable migration trade volume for the calendar years 2011-2014. Includes certain migration and add/drop trades among large cap indices (i.e. S&P 500) and mid/small cap indices (i.e. S&P 400 and Russell Small Cap Completeness. Analysis includes trades of sufficient size to merit a coordinated group trade among the Boston based Portfolio Managers.

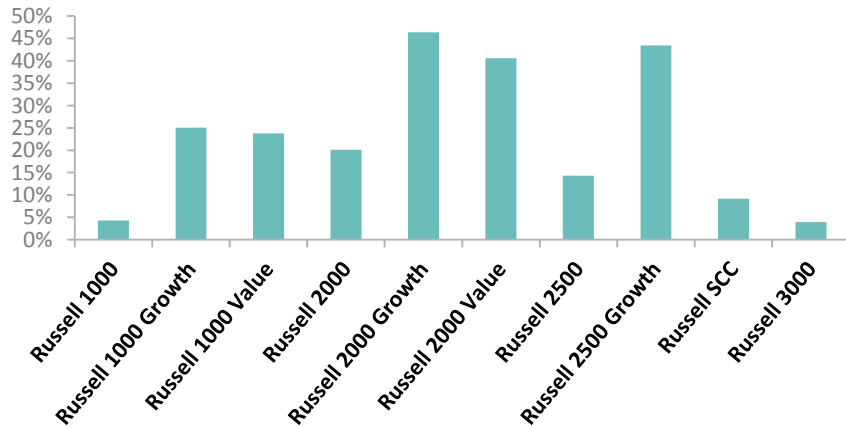
As of December 2015, updated annually. Source: SSGA.



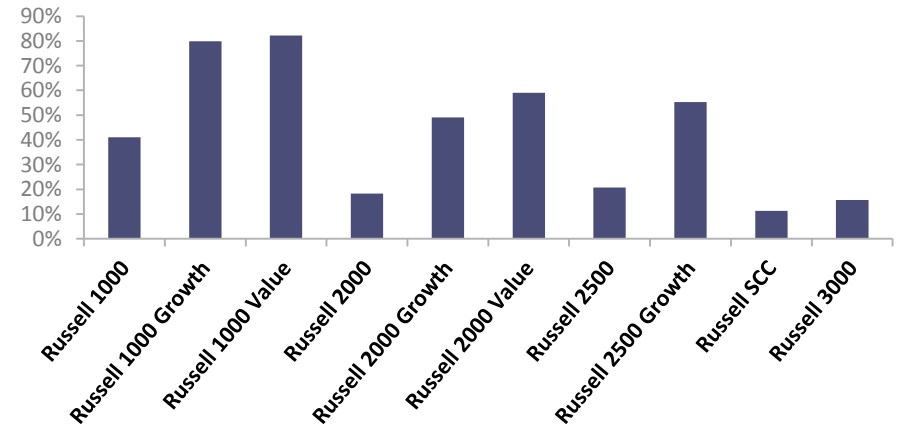
# Historical Russell Reconstitution Trade Crossing

- Due to **SSGA's internal liquidity and breadth of products**, there is an opportunity to **reduce transaction costs** around many index change events
- Turnover due to rebalancing for the annual Russell Reconstitution totaled **\$49.6 billion** for the combined years 2013–2016
- Over **\$26.3 billion was crossed internally**. This represents an average crossing rate for the period of **53.17%**.
- Estimated costs to trade a full slice of US large cap stocks in the open market is 10 bps while it costs about 20 bps for US mid/small cap stocks
- **Savings** passed on to our clients are estimated to be at least **\$29 million<sup>1</sup>** from 2013 to 2016

Average turnover 2013–2016



Average percent crossed 2013–2016



Source: GEBS Team.

<sup>1</sup> Impact and spread cost estimates are based on calculations provided by vendor tools that specialize in these estimations but are proprietary to the vendor. Commissions, taxes, and other explicit cost estimates are based on standard schedules published within SSGA but may vary from the results experienced in actual trading.

# Research Capabilities

## Commitment to Research-Driven Process

### Our Areas of Focus:

#### Investment themes

- What investors should be thinking about
- How the investment landscape is changing

##### *Research examples:*

- The passive perspective on valuation errors
- Passive investing versus indexing
- Rethinking the market portfolio
- Problems with manager universe data
- The equity risk premium
- True costs of active management
- Fundamentals-based Indexing

#### Understanding the Investment opportunity set

- Benchmark characteristics
- Benchmark dynamics
- Ways to manage exposure

##### *Research examples:*

- Benchmark comparisons
- Index change analysis
- New passive applications: hedge funds, commodities and wealth weighted benchmarks

#### Better portfolio management

- Seeks to minimize costs
- Seeks to minimize risk versus benchmark

##### *Research examples:*

- Transaction cost analysis
- Implementation tools — full replication, sampling and optimization

Source: SSGA.

# Positive Trends in Indexing

We believe indexing is a vital component of equity exposure

## **Broad Trends**

- Continued growth in assets and continued evidence of active to passive flows
- Clients continue to broaden passive exposure (away from domestic allocations and into regional/global)
- Convergence of methodologies across index providers — better predictability in outcomes

## **Smart Beta and Alternative Indices**

- Low-volatility equity strategies (US, Global, and Emerging Markets exposure)
- Rules-based, multi-factor and factor-tilt indexing strategies (e.g., quality, momentum, and value)

## **More Focused ETFs**

- Industry funds, sector funds, style funds
- Smaller shops opening funds with quasi-active indices, leverage, or distinct weighting schemes

## **Environmental, Social and Governance (ESG) Portfolios**

- Continued interest in divestment mandates that seek conventional benchmark returns and characteristics
- Innovative indices constructed with positive screens (e.g., US Community Investing Index™, Dow Jones Sustainability World Index, MSCI ACWI Low Carbon Target Index)

Source: SSGA as of September 30, 2015.

The US Community Investing Index is a trademark of the F.B. Heron Foundation and has been licensed for use by State Street Global Advisors. The Products are not sponsored, endorsed, sold or promoted by F.B. Heron Foundation and F.B. Heron Foundation makes no representation regarding the advisability of investing in the Products. Please see Important Disclosures at the end of this presentation for additional information.

# Why SSGA for Index Management?

## SSGA's Competitive Strengths

<b>Stable and Tenured Team</b>	<ul style="list-style-type: none"><li>• Over 35 years of dedicated index management</li><li>• An average of 15 years industry experience across the global portfolio management team</li></ul>
<b>Minimizing Costs</b>	<ul style="list-style-type: none"><li>• Potential cost-savings through crossing opportunities*</li><li>• Modular approach utilizing sizeable, seasoned, commingled fund portfolios</li></ul>
<b>Customized Investment Strategies</b>	<ul style="list-style-type: none"><li>• Listen, understand and respond to client needs and challenges</li></ul>
<b>Timely Research and Guidance</b>	<ul style="list-style-type: none"><li>• Researchers dedicated to practical as well as strategic and theoretical issues</li></ul>
<b>Strong and Lasting Client Relationships</b>	<ul style="list-style-type: none"><li>• Trusted to manage over 1,700 client portfolios globally against over 500 indices</li></ul>

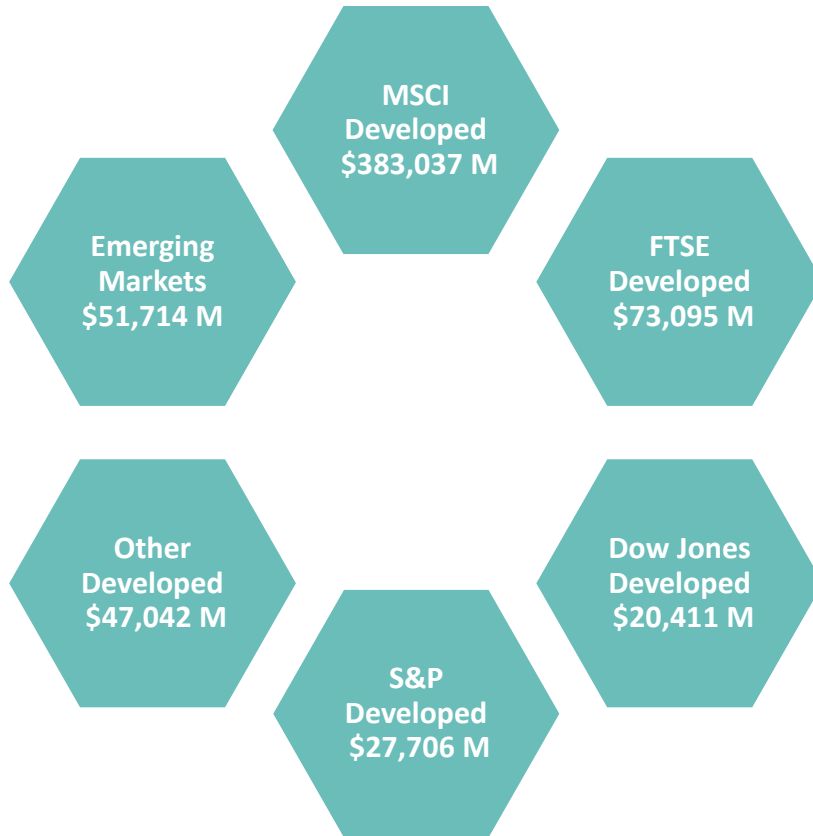
As of June 30, 2016. Updated annually.

\* There is no guarantee that cost savings will be achieved.

# Portfolio Review for MSCI EAFE<sup>®</sup> Index Strategy

# SSGA Global Index Experience

- SSGA has been investing in developed market strategies since 1979 and emerging market strategies since 1991
- Currently managing over \$603 billion in assets benchmarked to Global Indices



Source: SSGA as of September 30, 2016.

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# MSCI EAFE® Index Strategy Overview

**Objective:** Seeks to match the returns and characteristics of the MSCI EAFE® Index as closely as practicable, before expenses over the long term

- **MSCI EAFE Index Strategy**
  - Replication with additive offsets
  - Daily fund for DC Plans
  - Bi-monthly fund to maximize crossing opportunities
  - May use exchange traded index futures to achieve equity exposure
- **MSCI EAFE Benchmark: Broad-based international index**
  - Consists of approximately 926 securities across 21 countries outside the US and Canada
  - Seeks to capture 85% of each sector in each market
  - Quarterly reconstitution
  - Five year average (2011ح—015) historical turnover: 2.92%

## MSCI EAFE Markets

Australia  
Austria  
Belgium  
Denmark  
Finland  
France  
Germany  
Hong Kong  
Ireland  
Israel  
Italy  
Japan  
Netherlands  
New Zealand  
Norway  
Portugal  
Singapore  
Spain  
Sweden  
Switzerland  
United Kingdom

Source: SSGA, MSCI.

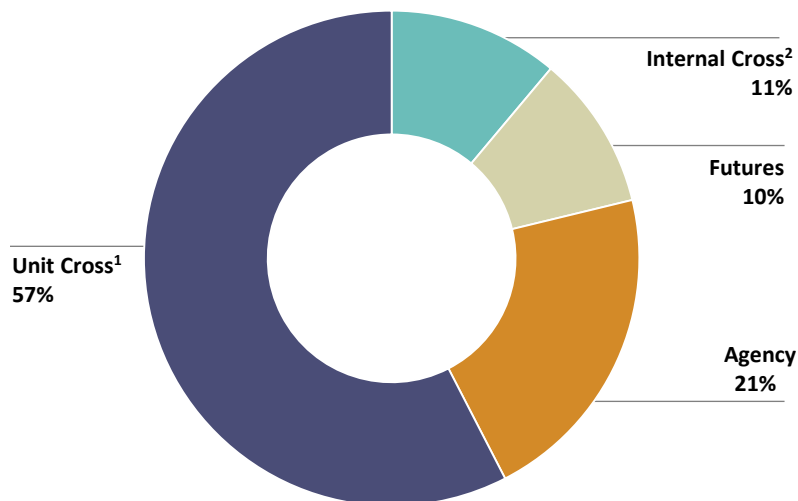
As of December 31, 2015. Updated Annually.

Although some investments may exhibit certain characteristics of leverage transactions, SSGA will not borrow money or use derivatives for the MSCI EAFE Strategy in a manner that SSGA considers to have the purpose of creating investment leverage. Investments made by SSGA to hedge or reduce risk will not be considered to have been made for the purpose of creating investment leverage; SSGA generally will determine whether an investment has the effect of creating investment leverage by evaluating the effect of the investment on the exposure and risk profile of the Strategy's portfolio as a whole.

# Potential Cost-Effective Trading

79% of the MSCI EAFE Index Strategy's cash flows traded at low or no cost\*

Total Order Flows: \$61 Billion, 2013–2015



Source: SSGA.

\* For the 3 most recent calendar years as of the slide creation date, 2013–2015. Data based on the weighted average results (by order volume) of one or more of SSGA's commingled funds. There is no guarantee that a particular client transaction will experience the same level of low cost trading.

<sup>1</sup> Unit crosses are transactions where client contributions/redemptions in a commingled fund are matched with offsetting client contributions/redemptions in the same commingled fund.

<sup>2</sup> Internal crosses are equity transactions for one SSGA managed fund that are matched, where possible, with offsetting equity transactions from other eligible SSGA managed funds.

Low cost trading percentages are calculated by subtracting agency trades from total trades and then dividing by total trades.

Hypothetical savings are based upon estimates and reflect subjective judgments and assumptions. These results were achieved by means of a mathematical formula and do not reflect the effect of unforeseen economic and market factors on decision-making. The hypothetical savings are not necessarily indicative of future savings, which could differ substantially.

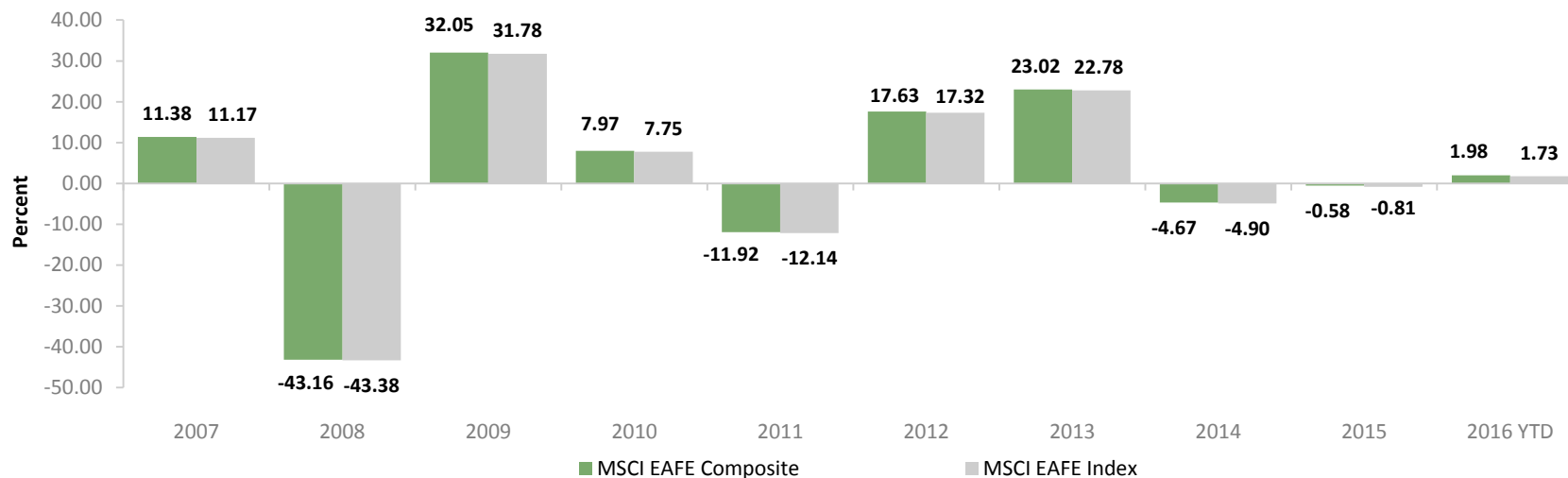
Investing involves risk including the risk of loss of principal.



# MSCI EAFE® Index Composite

## Gross annualized returns for the period ending September 30, 2016 (USD)

	Qtr	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception <sup>†</sup>
MSCI EAFE Composite	6.45%	1.98%	6.78%	0.71%	7.64%	2.07%	8.74%
MSCI EAFE Index	6.43	1.73	6.52	0.48	7.39	1.82	8.55
<b>Difference*</b>	<b>0.02</b>	<b>0.25</b>	<b>0.27</b>	<b>0.24</b>	<b>0.25</b>	<b>0.25</b>	<b>0.19</b>



Source: SSGA.

<sup>†</sup> Inception date: January 1985.

\* The value added returns may show rounding differences.

The performance shown is of a composite consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite.

New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation.

The above information is considered supplemental to the GIPS presentation for this Composite, which can be found in the Appendix or was previously presented. A GIPS presentation is also available upon request. Past performance is not a guarantee of future results. Performance returns for periods of less than one year are not annualized. Returns are expressed gross of management fees. Some members of the composite may accrue administration fees. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars.

The index returns are unmanaged and do not reflect the deduction of any fees or expenses.

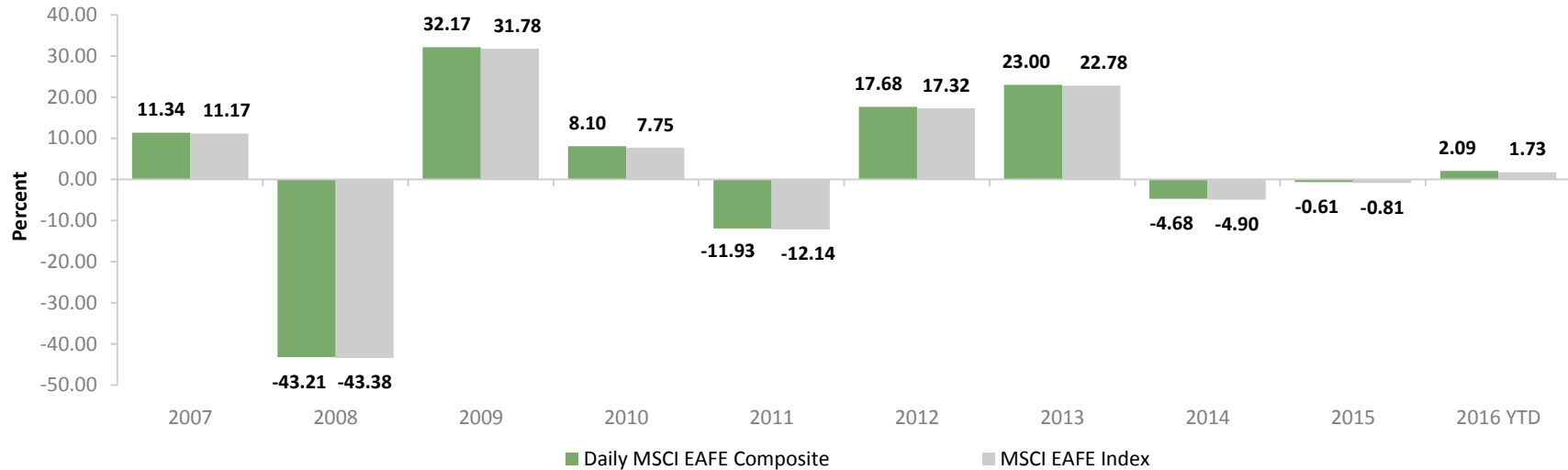
The index returns reflect all items of income, gain and loss and the reinvestment of dividends and other income.

S:EAFE/C; gP-EAFE

# Daily MSCI EAFE® Index Composite

## Gross annualized returns for the period ending September 30, 2016 (USD)

	Qtr	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception <sup>†</sup>
Daily MSCI EAFE Composite	6.50%	2.09%	6.91%	0.73%	7.89%	2.08%	4.80%
MSCI EAFE Index	6.43	1.73	6.52	0.48	7.39	1.82	4.65
<b>Difference*</b>	<b>0.07</b>	<b>0.36</b>	<b>0.39</b>	<b>0.25</b>	<b>0.50</b>	<b>0.26</b>	<b>0.15</b>



Source: SSGA.

<sup>†</sup> Inception date: November 1993.

\* The value added returns may show rounding differences.

The performance shown is of a composite consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite.

New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation.

The above information is considered supplemental to the GIPS presentation for this Composite, which can be found in the Appendix or was previously presented. A GIPS presentation is also available upon request. Past performance is not a guarantee of future results. Performance returns for periods of less than one year are not annualized. Returns are expressed gross of management fees. Some members of the composite may accrue administration fees. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars. The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss and the reinvestment of dividends and other income. S:EAFE/C: gP-DEAFE

# Global Equity Market Overview as of June 30, 2016

- US markets posted gains in Q2 despite challenging factors
  - One of the notable developments driving markets in May was the re-emergence of expectations the US Federal Reserve (Fed) would contemplate raising rates during the middle of 2016, something that had been given scant probability at the beginning of the month
  - Once the unexpected Brexit 'leave' vote result was confirmed on the morning of June 24th, the resulting uncertainty took the likelihood of any Fed tightening for the rest of 2016 down close to zero and even an increase in through the end of 2017 was priced at less than one third
  - The revised Q1 2016 GDP report released on May 27th showed that corporate profits declined 14% at an annualized rate over the prior two quarters, contributing to weaker contemporaneous and likely future capital spending
  - Proving that there is still an abundance of caution in the market in 2016, assets that may be considered defensive in many circumstances have been among the best absolute performers
- International markets were challenged through out Q2
  - Investors in 2016 have so far navigated a storm of additional uncertainties including softening economic growth and policy missteps in China, a degree of disenchantment in the ability of global central banks to influence market outcomes and now a vote by Britain on June 23rd to exit its 43 year membership in the European Union
  - After selling off aggressively to kick off the year through the second week of February, global equities clawed back into positive territory for the year through June 23rd, only to see those gains extinguished when the surprise outcome of the 'Brexit' vote was learned on June 24th, leaving the MSCI World Index down 1.7% before rebounding smartly to put the index back in positive territory on a year-to-date (YTD) basis as of June 30th
- Large, mid and small caps saw increases in Q2
  - The S&P 500 Index ended the second quarter with 2.46% return
  - Mid and small cap stocks did not perform much either. The S&P 400 Index gained approximately 3.99% for the quarter and the Russell 2000 Index gained 3.40%.
  - The Russell 1000 Growth Index slightly increased 0.19% in the second quarter, while the Russell 1000 Value Index increased 3.91%
- Developed Markets outside the US faced a decline in Q2, while Emerging Markets once again posted gains
  - The MSCI EAFE Index was down 1.46% in the first quarter (in US Dollars), with Financials and Consumer Discretionary dragging down the index.
  - The MSCI Emerging Markets Index slightly increased 0.66% during the first quarter (in US dollars)

Source: SSGA.

Past performance is not a guarantee of future results. Index returns are unmanaged and do not reflect the deduction of any fees or expenses.

Index returns reflect all items of income, gain and loss and the reinvestment of dividends and other income.

The information provided does not constitute investment advice and it should not be relied on as such. All material has been obtained from sources believed to be reliable. There is no representation or warranty as to the accuracy of the information and State Street shall have no liability for decisions based on such information.

It is not possible to invest directly in an index. All the index performance results referred to are provided exclusively for comparison purposes only. It should not be assumed that they represent the performance of any particular investment.

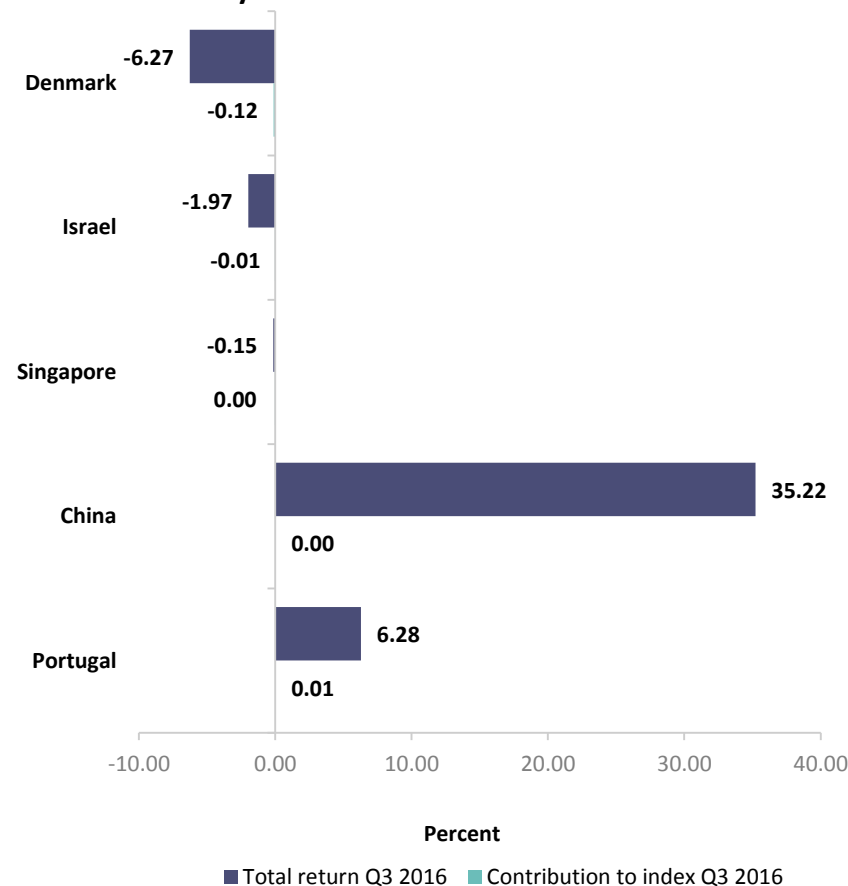
# Performance Analysis by Country as of September 30, 2016

MSCI EAFE® Index returned 6.43% in Q3 2016

## Top 5 Country Contributors to Index



## Bottom 5 Country Contributors to Index



Source: FactSet, SSGA.

Country reporting based on MSCI Global Equity indexes and SSGA (Securities classified by MSCI as Hong Kong are classified by SSGA as China). Past performance is not a guarantee of future results. Performance returns for periods of less than one year are not annualized. Countries shown are as of the date indicated and are subject to change. Index returns are unmanaged and do not reflect the deduction of any fees or expenses. Index returns reflect all items of income, gain and loss and the reinvestment of dividends and other income.

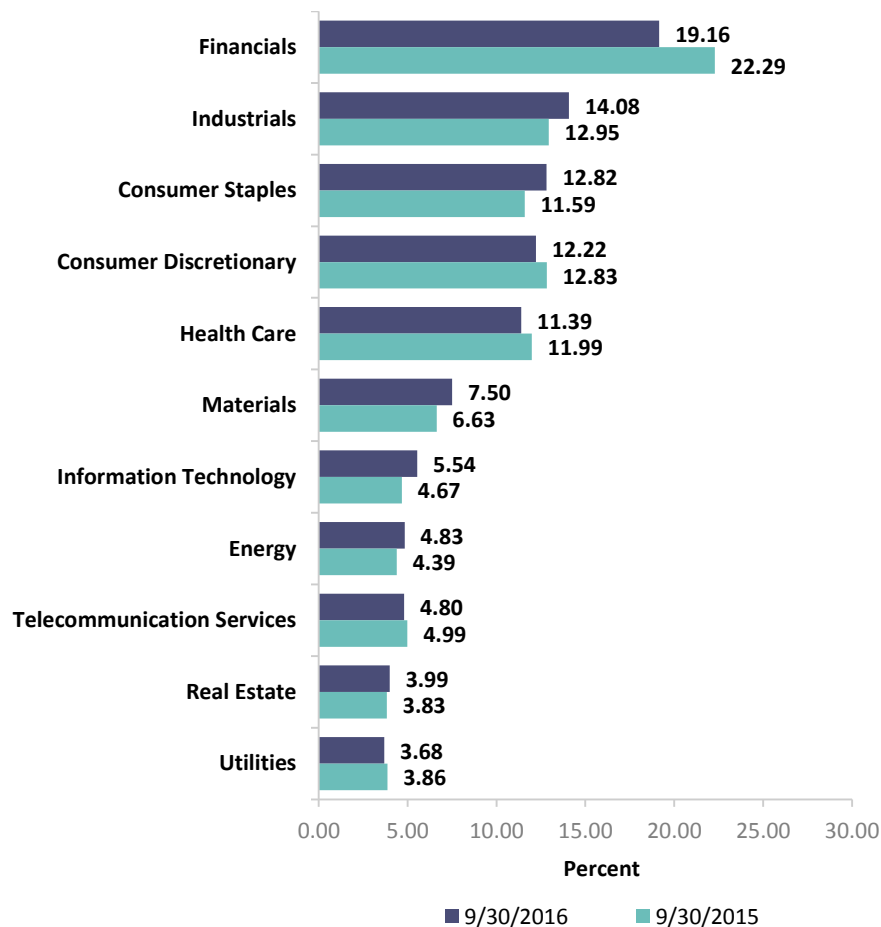
# Sector Weights and Top Ten Holdings

## Top Ten Holdings for MSCI EAFE® Index

Security Name 9/30/2016	%
<b>Total</b>	<b>11.72</b>
NESTLE SA-REG	2.04
NOVARTIS AG-REG	1.42
ROCHE HOLDING AG-GENUSSCHEIN	1.41
TOYOTA MOTOR CORP	1.23
HSBC HOLDINGS PLC	1.20
BRITISH AMERICAN TOBACCO PLC	0.97
BP PLC	0.88
ANHEUSER-BUSCH INBEV SA/NV	0.85
TOTAL SA	0.86
ROYAL DUTCH SHELL PLC-A SHS	0.86

Security Name 9/30/2015	%
<b>Total</b>	<b>12.51</b>
NESTLE SA-REG	2.07
NOVARTIS AG-REG	1.78
ROCHE HOLDING AG-GENUSSCHEIN	1.58
TOYOTA MOTOR CORP	1.36
HSBC HOLDINGS PLC	1.26
SANOFI	0.95
NOVO NORDISK A/S-B	0.90
BAYER AG-REG	0.90
BRITISH AMERICAN TOBACCO PLC	0.88
TOTAL SA	0.83

## Sector Weights for MSCI EAFE® Index



Source: FactSet, SSGA.

Sector reporting based on MSCI/S&P Global Industry Classification Standard (GICS).

The Holdings and Sector Weights shown are as of the date indicated and, are subject to change. This information should not be considered a recommendation to invest in any particular sector or buy or sell any security shown. It is not known whether the securities or sectors shown will be profitable in the future.

# MSCI 2016 May Semi-Annual Index Review

- MSCI's May Semi-Annual Index Review updates the indices based on changes in market structure due to performance, IPOs, de-listings and corporate events
  - Effective date: May 31, 2016; MSCI completed the second half inclusion of foreign listed companies which were added at half their free float adjusted market capitalization in Nov 2015 to China, Hong Kong, Israel, and the Netherlands
  - This year the May one-way turnover was approximately 0.9% for the MSCI World Index, 1.3% for the MSCI EAFE® Index, and 4.2% for the MSCI EM Index<sup>SM</sup>
  - For the MSCI World Index<sup>SM</sup>, there were 28 additions (12 were US stocks) and 20 deletions (9 were US stocks)
  - The three largest additions to the MSCI World Index, measured by full company market cap, were: Abn Amro (Netherlands), Hydro One (Canada), and Schaeffler (Germany)
  - For the MSCI EM Index<sup>SM</sup>, there were 15 additions and 17 deletions
  - The three largest additions to the MSCI EM Index, measured by full company market cap, were: Lg Household (Korea), Bajaj Finance (India), Phosagro GDR (Russia)
- MSCI's June 2016 Annual Market Classification Review
  - MSCI again delayed adding China A-shares to its global benchmarks pending a few remaining market accessibility: 1. issues regarding beneficial ownership, 2. trading suspensions, 3. quota allocations and capital restrictions
  - MSCI indicated that their announcement regarding when they will include China A-shares in the MSCI Emerging Markets Index could happen outside of the regular Annual Market Classification Review schedule
  - Pakistan will be reclassified to EM status in May 2017
  - MSCI will monitor the Saudi Arabia equity market before considering it for inclusion to the annual review list. However, standalone indices were made available as of June 1, 2015.
  - Peru will remain in the EM Index but will proceed with reclassification to FM if Peru falls short of the 3 minimum constituent requirement
  - Argentina was added to 2017 Market Classification review for potential move to EM status
  - Korea was not included to the 2017 Review
  - Nigeria was removed from FM status and reclassified as a stand-alone market

Source: SSGA  
The MSCI Indices are trademarks of MSCI, Inc.  
Please go to the MSCI website for more information about the Indexes.

# Portfolio Review for S&P 500<sup>®</sup> Index Strategy

# S&P 500<sup>®</sup> Index Strategy Overview

**Objective: Seeks to match the returns and characteristics of the S&P 500 Index as closely as practicable, before expenses over the long term**

- **S&P 500 Index Strategy**
  - Replication with additive offsets
  - Daily openings
  - May use exchange traded index futures to achieve equity exposure
  
- **S&P 500 Index: Exposure to 500 leading companies in leading industries**
  - Large-cap equity covering about 80% of US market
  - Float-adjusted market capitalization
  - Continuous reconstitution
  - Five year average (2011–2015) annual historical turnover: 3.93%

Source: SSGA, S&P.

As of June 30, 2016. Updated Annually.

Although some investments may exhibit certain characteristics of leverage transactions, SSGA will not borrow money or use derivatives for the S&P 500 Index Strategy in a manner that SSGA considers to have the purpose of creating investment leverage. Investments made by SSGA to hedge or reduce risk will not be considered to have been made for the purpose of creating investment leverage; SSGA generally will determine whether an investment has the effect of creating investment leverage by evaluating the effect of the investment on the exposure and risk profile of the Strategy's portfolio as a whole.

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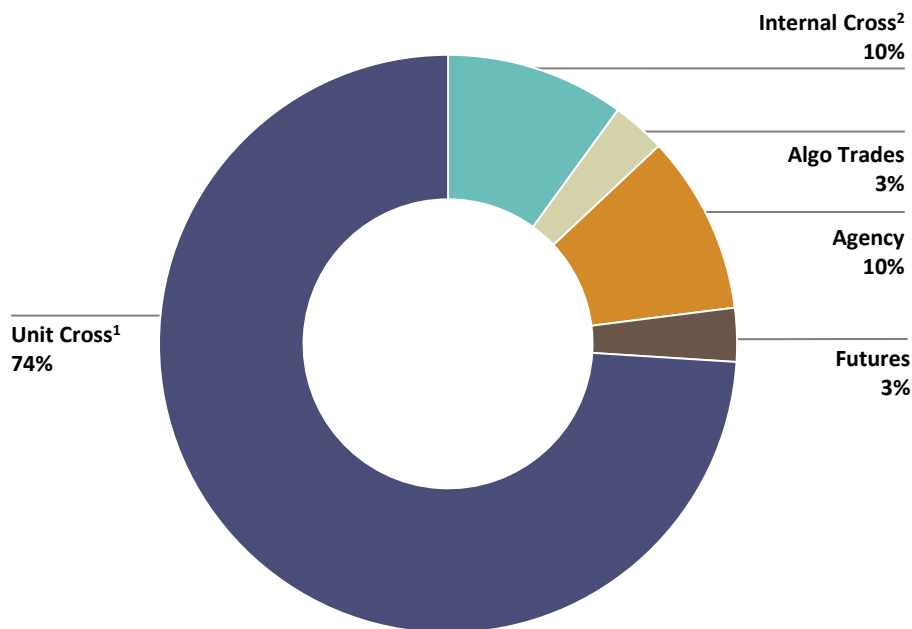
Please see Important Disclosures in the Appendix.



# Potential Cost-Effective Trading

90% of the S&P 500 Index Strategy's cash flows traded at low or no cost\*

Total Order Flows: \$125.4Billion 2013–2015



Source: SSGA.

\* For the 3 most recent calendar years as of the slide creation date, 2013–2015. Data based on the weighted average results (by order volume) of one or more of SSGA's commingled funds. There is no guarantee that a particular client transaction will experience the same level of low cost trading.

<sup>1</sup> Unit crosses are transactions where client contributions/redemptions in a commingled fund are matched with offsetting client contributions/redemptions in the same commingled fund.

<sup>2</sup> Internal crosses are equity transactions for one SSGA managed fund that are matched, where possible, with offsetting equity transactions from other eligible SSGA managed funds.

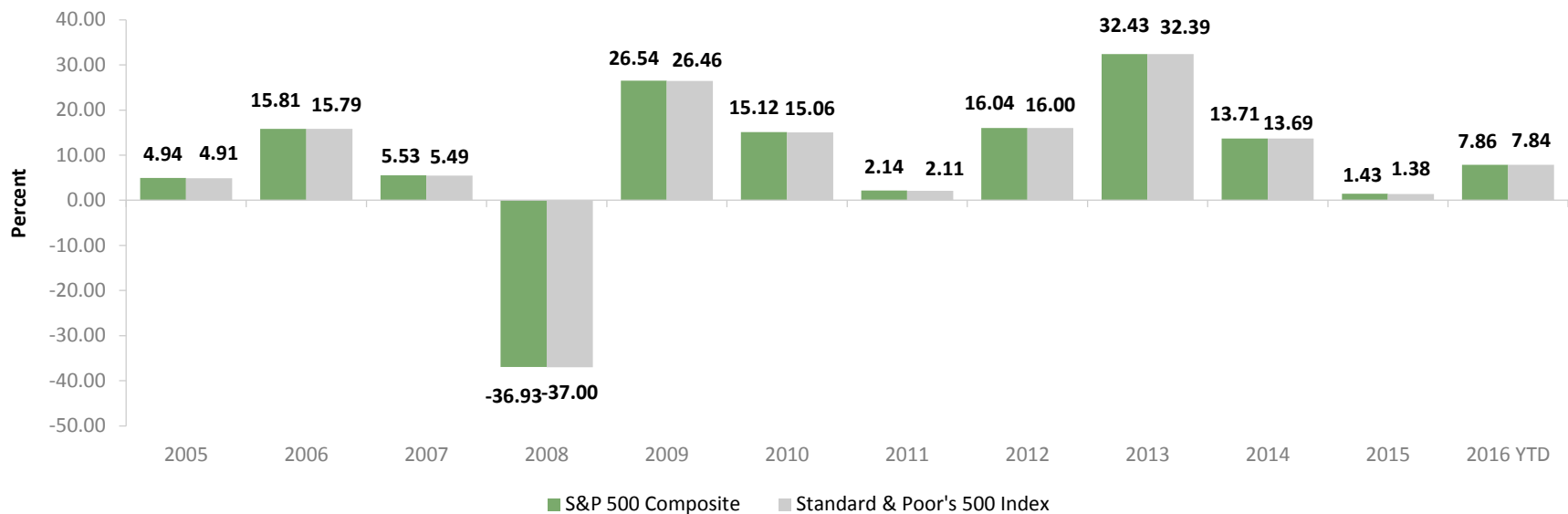
Low cost trading percentages are calculated by subtracting agency trades from total trades and then dividing by total trades.

Hypothetical savings are based upon estimates and reflect subjective judgments and assumptions. These results were achieved by means of a mathematical formula and do not reflect the effect of unforeseen economic and market factors on decision-making. The hypothetical savings are not necessarily indicative of future savings, which could differ substantially.

# S&P 500<sup>®</sup> Index Composite

## Gross annualized returns for the period ending September 30, 2016 (USD)

	Qtr	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception <sup>†</sup>
S&P 500 Index Composite	3.87%	7.86%	15.47%	11.19%	16.40%	7.28%	10.40%
S&P 500 Index	3.85	7.84	15.43	11.16	16.37	7.24	10.38
<b>Difference*</b>	<b>0.02</b>	<b>0.02</b>	<b>0.04</b>	<b>0.03</b>	<b>0.03</b>	<b>0.05</b>	<b>0.03</b>



Source: SSGA.

<sup>†</sup> Inception date: January 1, 1986.

\* The value added returns may show rounding differences.

The performance shown is of a composite consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite.

New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation.

The above information is considered supplemental to the GIPS presentation for this Composite, which can be found in the Appendix or was previously presented. A GIPS presentation is also available

upon request. Past performance is not a guarantee of future results. Performance returns for periods of less than one year are not annualized. Returns are expressed gross of management fees.

Some members of the composite may accrue administration fees. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars.

The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss and the reinvestment of dividends and other income.

It is not possible to invest directly in an index. Please see Important Disclosures in the Appendix.

S:SP5/C:gPASP500

CM11

# Global Equity Market Overview as of June 30, 2016

- **US markets posted gains in Q2 despite challenging factors**
  - One of the notable developments driving markets in May was the re-emergence of expectations the US Federal Reserve (Fed) would contemplate raising rates during the middle of 2016, something that had been given scant probability at the beginning of the month
  - Once the unexpected Brexit 'leave' vote result was confirmed on the morning of June 24th, the resulting uncertainty took the likelihood of any Fed tightening for the rest of 2016 down close to zero and even an increase in through the end of 2017 was priced at less than one third
  - The revised Q1 2016 GDP report released on May 27th showed that corporate profits declined 14% at an annualized rate over the prior two quarters, contributing to weaker contemporaneous and likely future capital spending
  - Proving that there is still an abundance of caution in the market in 2016, assets that may be considered defensive in many circumstances have been among the best absolute performers
- **International markets were challenged through out Q2**
  - Investors in 2016 have so far navigated a storm of additional uncertainties including softening economic growth and policy missteps in China, a degree of disenchantment in the ability of global central banks to influence market outcomes and now a vote by Britain on June 23rd to exit its 43 year membership in the European Union
  - After selling off aggressively to kick off the year through the second week of February, global equities clawed back into positive territory for the year through June 23rd, only to see those gains extinguished when the surprise outcome of the 'Brexit' vote was learned on June 24th, leaving the MSCI World Index down 1.7% before rebounding smartly to put the index back in positive territory on a year-to-date (YTD) basis as of June 30th
- **Large, mid and small caps saw increases in Q2**
  - The S&P 500 Index ended the second quarter with 2.46% return
  - Mid and small cap stocks did not perform much either. The S&P 400 Index gained approximately 3.99% for the quarter and the Russell 2000 Index gained 3.40%.
  - The Russell 1000 Growth Index slightly increased 0.19% in the second quarter, while the Russell 1000 Value Index increased 3.91%
- **Developed Markets outside the US faced a decline in Q2, while Emerging Markets once again posted gains**
  - The MSCI EAFE Index was down 1.46% in the first quarter (in US Dollars), with Financials and Consumer Discretionary dragging down the index.
  - The MSCI Emerging Markets Index slightly increased 0.66% during the first quarter (in US dollars)

Source: SSGA.

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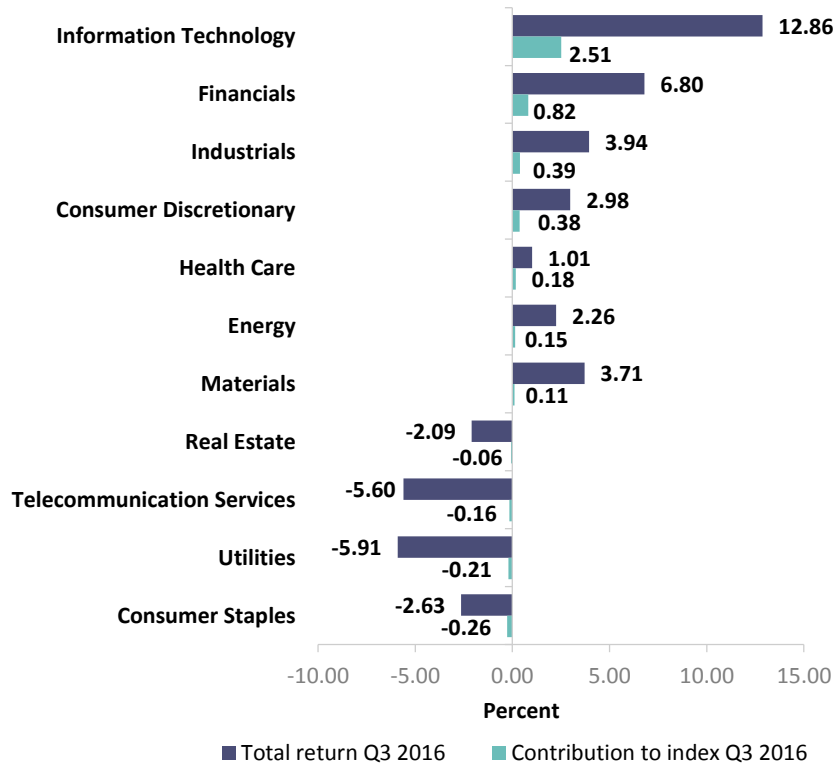
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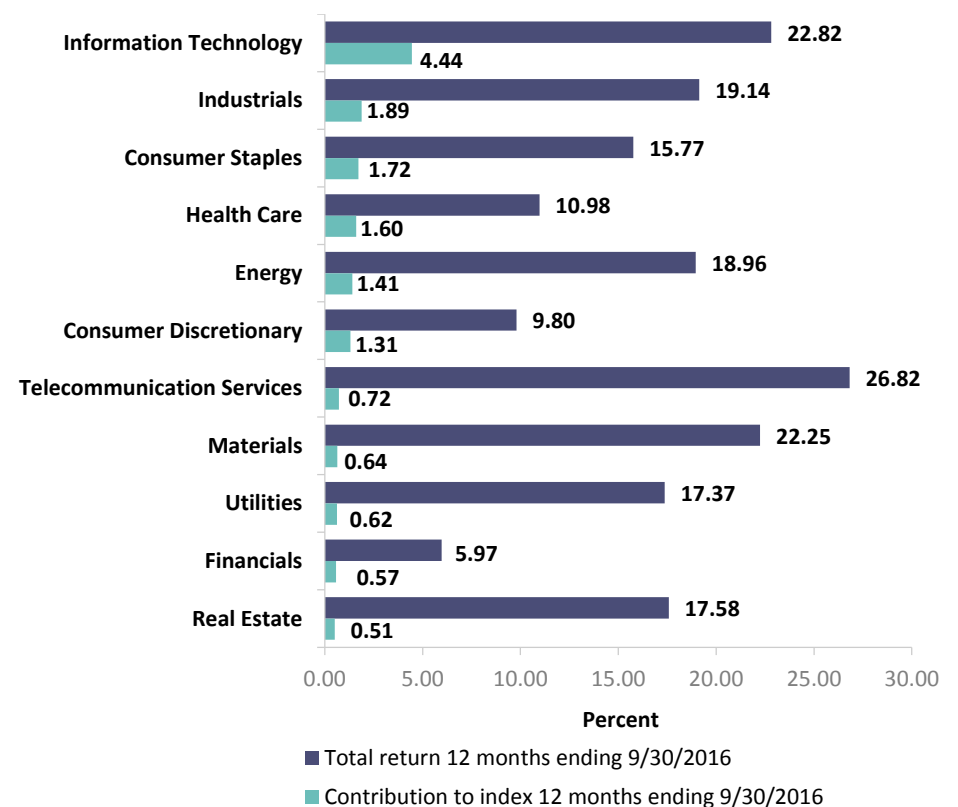
# Performance Analysis by Sectors as of September 30, 2016

## S&P 500® Index returned ...

3.85% for 3Q 2016



15.43% over past 12 months



As of September 30, 2016.

Source: Factset.

Past performance is not a guarantee of future results. Performance returns for periods of less than one year are not annualized.

Sectors shown are as of the date indicated and are subject to change. This information should not be considered a recommendation to invest in a particular sector or to buy or sell any security shown. It is not known whether the sectors or securities shown will be profitable in the future.

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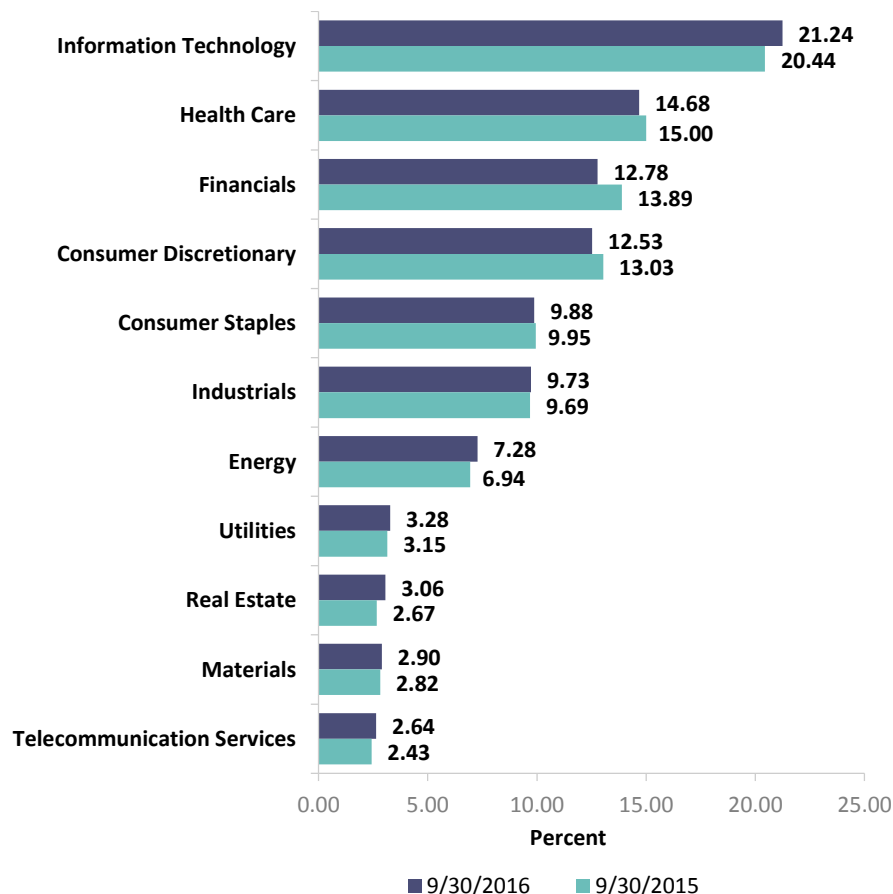
# Sector Weights and Top Ten Holdings

## Top ten holdings for S&P 500® Index

Security Name 9/30/2016	%
<b>Total</b>	<b>18.13</b>
APPLE INC	3.25
MICROSOFT CORP	2.39
EXXON MOBIL CORP	1.93
AMAZON.COM INC	1.76
JOHNSON & JOHNSON	1.72
FACEBOOK INC-A	1.59
BERKSHIRE HATHAWAY INC-CL B	1.46
GENERAL ELECTRIC CO	1.42
AT&T INC	1.33
JPMORGAN CHASE & CO	1.28

Security Name 9/30/2015	%
<b>Total</b>	<b>17.25</b>
APPLE INC	3.72
MICROSOFT CORP	2.09
EXXON MOBIL CORP	1.83
JOHNSON & JOHNSON	1.53
GENERAL ELECTRIC CO	1.51
BERKSHIRE HATHAWAY INC-CL B	1.44
WELLS FARGO & CO	1.42
JPMORGAN CHASE & CO	1.33
FACEBOOK INC-A	1.20
AT&T INC	1.18

## Sector weights for S&P 500® Index



As of September 30, 2016.

Source: SSGA, FactSet.

The holdings and sectors shown are as of the date indicated and are subject to change. This information should not be considered a recommendation to invest in any particular sector or buy or sell any security shown. It is not known whether the securities or sectors shown will be profitable in the future.

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# Top and Bottom Contributors to Performance – Q3 2016

## Top five S&P 500® Index contributors

Company	Ending Weight	Total Return (Gross of Fees)	Contribution to Return	Sector
Apple Inc.	3.25	18.89	0.54	Information Technology
Microsoft Corporation	2.39	13.27	0.29	Information Technology
Amazon.com, Inc.	1.76	17.00	0.26	Consumer Discretionary
Facebook, Inc. Class A	1.59	12.24	0.18	Information Technology
Alphabet Inc. Class A	1.26	14.29	0.16	Information Technology

## Bottom five S&P 500® Index contributors

Company	Ending Weight	Total Return (Gross of Fees)	Contribution to Return	Sector
Bristol-Myers Squibb Company	0.48	-26.69	-0.17	Health Care
Exxon Mobil Corporation	1.93	-6.08	-0.13	Energy
General Electric Company	1.42	-5.18	-0.08	Industrials
Verizon Communications Inc.	1.13	-5.98	-0.07	Telecommunication Services
AT&T Inc.	1.33	-4.97	-0.07	Telecommunication Services

As of September 30, 2016.

Source: FactSet.

Sector reporting based on MSCI/S&P Global Industry Classification Standard (GICS).

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Index returns reflect all items of income, gain and loss and the reinvestment of dividends and other income.

The holdings and sectors shown are as of the date indicated and are subject to change. This information should not be considered a recommendation to invest in any particular sector or buy or sell any security shown. It is not known whether the securities or sectors shown will be profitable in the future.

A list showing every holding's contribution to the overall index performance during the quarter, as well as the calculation methodology, is available upon request.

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# Index Change Analysis – S&P 500® Index

## 2016

- 55 additions/deletions so far in 2016
- 44 additions/deletions were due to acquisition activity, 1 addition of a new share class, and 10 were due to securities being more representative of the mid-cap index (lack of representation)
- S&P 500 now contains 505 positions (but still 500 companies) after the additions of News Corp and Twenty-First Century Fox Class B shares, Google, Under Armour, and Discovery Communications Class C shares



As of September 30, 2016.

Source: Standard & Poor's®.

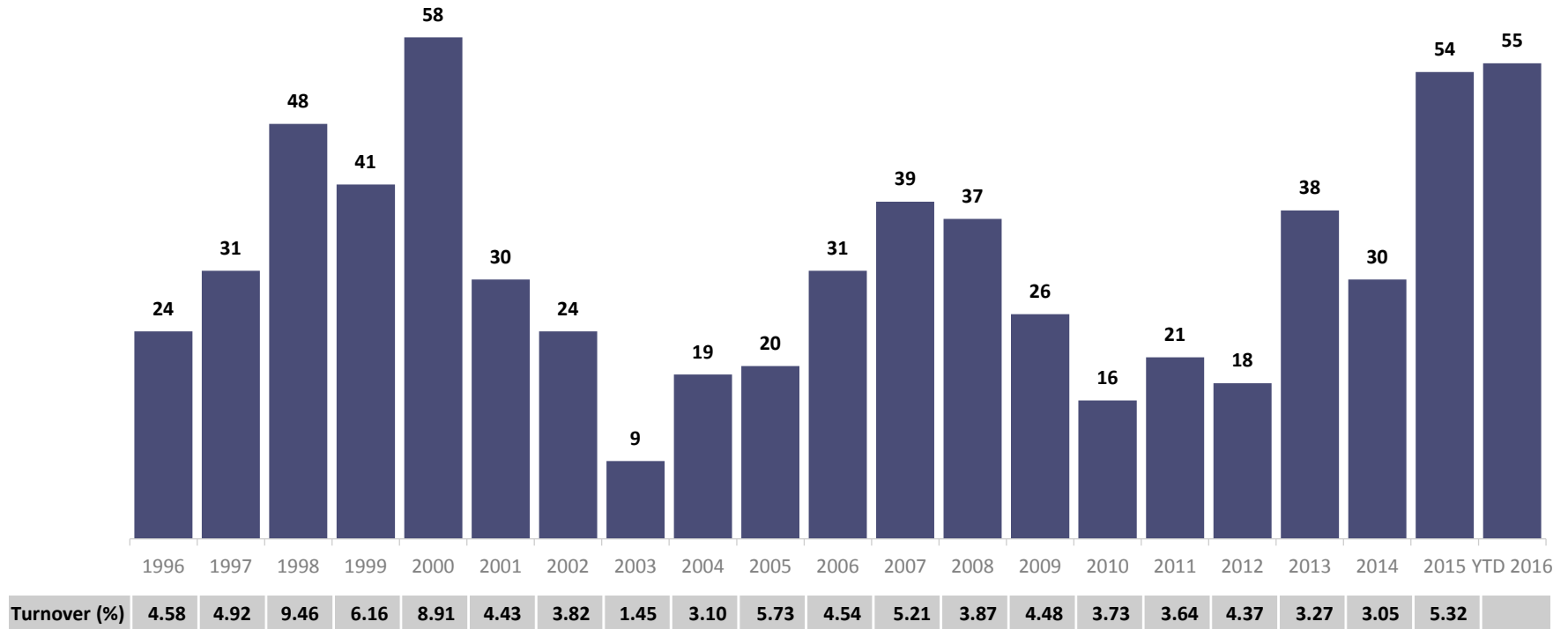
Index changes are as of the date indicated, are subject to change, and should not be relied upon as current thereafter.

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# Index Change Analysis — Historical — S&P 500® Index

## Number of changes per year and cap-weighted turnover



As of September 30, 2016.  
 Source: Standard & Poor's®.  
 Please see Important Disclosures in the Appendix.



# Index Change Analysis – 2016 – S&P 500® Index

Date	Company	Status
1/5/16	Digital Realty Trust	Add
1/5/16	Willis Group Holdings PLC	Add
1/19/16	Extra Space Storage Inc	Add
2/1/16	Citizens Financial Group Inc	Add
2/1/16	Federal Realty Invt Trust	Add
2/22/16	Concho Resources Inc	Add
3/4/16	American Water Works Co Inc	Add
3/7/16	UDR Inc	Add
3/30/16	Centene Corp	Add
3/30/16	Hologic Inc	Add
4/4/16	Foot Locker Inc	Add
4/8/16	Under Armour Inc-C	Add
4/18/16	Ulta Salon Cosmetics & Fragr	Add
4/25/16	Global Payments Inc	Add
5/3/16	Acuity Brands Inc	Add
5/13/16	Alaska Air Group Inc	Add
5/13/16	Vistana Signature Experiences SPIN	Add
5/16/16	Ingevity Corp	Add
5/23/16	LKQ Corp	Add
5/31/16	Gallagher Arthur J. & Co	Add
6/3/16	TransDigm Group	Add
6/24/16	Fortune Brands Home & Security Inc	Add

Date	Company	Status
1/5/16	Airgas Inc	Drop
1/5/16	Fossil Group Inc	Drop
1/19/16	Chubb Corp old	Drop
2/1/16	Broadcom Corp A	Drop
2/1/16	Precision Castparts Corp	Drop
2/22/16	Plum Creek Timber Co	Drop
3/4/16	CONSOL Energy Inc	Drop
3/7/16	Keurig Green Mountain Inc	Drop
3/30/16	EnSCO PLC - CL A	Drop
3/30/16	Pepco Holdings Inc	Drop
4/4/16	Cameron International Corp	Drop
4/18/16	Tenet Healthcare	Drop
4/25/16	GameStop Corp A	Drop
5/3/16	The ADT Corp.	Drop
5/13/16	SanDisk Corp	Drop
5/16/16	Vistana Signature Experiences SPIN	Drop
5/17/16	Ingevity Corp	Drop
5/18/16	Time Warner Cable Inc	Drop
5/31/16	Coca-Cola Enterprises	Drop
6/3/16	Baxalta Inc	Drop
6/24/16	Cablevision Systems Co A	Drop

As of September 30, 2016.

Source: Standard & Poor's®.

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# Index Change Analysis — 2016 — S&P 500<sup>®</sup> Index

<b>Date</b>	<b>Company</b>	<b>Status</b>	<b>Date</b>	<b>Company</b>	<b>Status</b>
7/1/16	Albemarle Corp	Add	7/1/16	AGL Resources	Drop
7/1/16	Alliant Energy Corp	Add	7/1/16	TECO Energy Inc	Drop
7/5/16	Fortive Corp	Add	7/6/16	Columbia Pipeline Group	Drop
9/6/16	Mettler-Toledo Intl	Add	9/6/16	Johnson Controls Inc	Drop
9/8/16	Charter Communications Inc A	Add	9/8/16	EMC Corp	Drop
9/23/16	Cooper Companies Inc	Add	9/23/16	Starwood Hotel & Resort World	

As of September 30, 2016.

Source: Standard & Poor's<sup>®</sup>.

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# Appendix A: GIPS® Presentations

# GIPS® Report: S&P 500 Index Composite

## As of December 31, 2015

### Gross Returns

	Quarter	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception Jan 1986
S&P 500 Index Composite	7.06	1.43	1.43	15.16	12.60	7.35	N/A
S&P 500®	7.04	1.38	1.38	15.13	12.57	7.31	N/A

Year	S&P 500 Index Composite	S&P 500®
2015	1.43	1.38
2014	13.71	13.69
2013	32.42	32.39
2012	16.04	16.00
2011	2.14	2.11
2010	15.12	15.06
2009	26.54	26.46
2008	-36.93	-37.00
2007	5.53	5.49
2006	15.81	15.79

Year	No. of Portfolios	Composite Dispersion	3 Yr Annualized		Total Assets at End of Period (USD)	% of Firm's Assets	Total Firm Assets (USD mil)
			Standard Deviation — Composite	Standard Deviation — Benchmark			
2015	20	0.04	10.48	10.47	62,069,196,320	2.84	2,183,429
2014	20	0.03	8.97	8.97	67,773,578,217	2.84	2,383,493
2013	20	0.04	11.93	11.94	67,232,162,274	2.95	2,279,237
2012	20	0.04	15.08	15.09	55,499,052,765	2.74	2,023,842
2011	18	0.01	18.69	18.71	62,152,623,788	3.52	1,768,142
2010	14	0.02	21.84	21.85	58,677,181,141	3.86	1,518,977
2009	16	0.06	19.62	19.63	56,064,423,967	4.12	1,360,125
2008	12	0.02	15.07	15.08	63,317,399,770	6.67	949,988
2007	11	0.07	7.68	7.68	105,871,246,711	8.49	1,246,382
2006	12	0.10	6.82	6.82	105,498,089,610	9.83	1,073,038

gPASP500

\* 5 portfolios or less

\*\* Less than 3 years

Quarterly and YTD returns are not annualized

**Investment Objective:** The Strategy seeks an investment return that approximates as closely as practicable, before expenses, the performance of its benchmark index (the "Index") over the long term.

**Investment Strategy:** 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 equity securities comprising the Index, in approximately the same proportions as they are represented in the Index. Equity securities may include common stocks, preferred stocks, depository receipts, or other securities convertible into common stock. The Strategy may purchase securities in their initial public offerings ("IPOs"). 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, SSGA 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, prior to or after their removal or addition to the Index. The Strategy may at times purchase or sell index futures contracts, 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.

**Withholding Taxes Differences:** None.

**Exchange Rates Differences Between Composite & Benchmark:** None.

**Minimum Asset Level for Inclusion:** 0.

**STATE STREET  
GLOBAL ADVISORS.**

### Footnotes

**Firm Definition:** For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm ("SSGA-Global") is defined as all portfolios managed across the global offices of State Street Global Advisors (SSGA) and SSGA Funds Management, Inc., with the exception of business units which are held out to the marketplace as distinct business entities – Fiduciary Advisory Solutions (formerly known as the Office of the Fiduciary Advisor [OFA]) and Charitable Asset Management (CAM). Prior to 1/1/2011, SSGA-Global also excluded its wrap fee business (Intermediary Business Group [IBG]) and assets accounted for on a book value basis (global cash and stable value assets). In January 2011, SSGA acquired the Bank of Ireland Asset Management Limited (now known as SSGA Ireland Limited), a GIPS® Compliant firm. On 1/1/2012 SSGA Ireland Limited assets were merged into SSGA-Global.

**Composite Description:** The Composite seeks to achieve the Investment Objective described below using the Investment Strategy described below.

**Compliance Statement:** SSGA-Global claims compliance with the Global Investment Performance Standards (GIPS®) and has prepared and presented this report in compliance with GIPS. SSGA-Global claims compliance with the GIPS standards from January 1, 2000. The period prior to January 1, 2000 (where shown) is not in compliance, as not all actual fee-paying portfolios are in a composite. SSGA-Global has been independently verified for the periods January 1, 2000 through December 31, 2014. The verification report is available upon request. Verification assesses whether (1) the firm has complied with all the composite construction requirements of the GIPS standards on a firm-wide basis and (2) the firm's policies and procedures are designed to calculate and present performance in compliance with the GIPS standards. Verification does not ensure the accuracy of any specific composite presentation. In January 2015, the GIPS Firm name changed from "SSGA-Global" to "SSGA-Global".

**List Available:** A complete list of the firm's composites and their descriptions is available upon request.

**Creation Date:** The composite was created on 01/01/09.

**Benchmark Description:** The benchmark for the composite is the S&P 500®. Index returns are unmanaged and do not reflect the deduction of any fees or expenses but include all items of income, gain, and loss.

**Currency:** Performance is presented in USD.

**Use of Subadvisors:** This composite contains portfolios that were managed on a sub-advised basis for the period from 01/09/02 to 31/08/08.

**Use of Subadvisors:** None.

**Fees:** Returns are expressed gross of management fees. The results do not reflect the deduction of investment management fees. Some members of this composite may accrue administration fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

**Fee Schedule:** Management fees are 0.050% of the first \$50,000,000; 0.040% of the next \$50,000,000; and 0.020% thereafter. The minimum annual management fee for commingled funds is \$10,000. The minimum annual management fee for separately managed accounts is \$75,000. Management fees may be adjusted based upon specific client requirements.

**Derivatives Use:** SSGA may use futures and other derivatives from time to time in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and not with the purpose of creating investment leverage.

**Calculation Methodology:** Additional information is available upon request regarding the firm's policies and procedures for calculating and reporting performance results as well as valuation procedures.

**Annualized Returns:** All returns for periods greater than one year have been annualized.

**Dispersion:** Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

**Significant Events:** In November 2007, on the departure of the North America CIO Sean Flannery, Global asset class CIOs were appointed (Alistair Lowe, Asset Allocation and Currency CIO; Mark Marinella, Fixed Income CIO; Steve Meier, Cash CIO and Arlene Rockefeller, Equities CIO). In May 2010, Lynn Blake assumed the role as Global head of Index Equity following the retirement of Paul Brakke. In July 2014, on the departure of Maria Dwyer, Matt Steinaway was named interim Chief Risk Officer. Matt replaced Maria Dwyer, who was appointed to the leadership team of the Office of Regulatory Initiatives Oversight. In November 2014, David Saulnier was appointed as Chief Risk Officer for SSGA, replacing Matt Steinaway. Matt Steinaway resumed his position as Head of Global Cash Management. In March 2015, Timothy Corbett was appointed Head of Global Investment Risk replacing Fred Gjerstad who has since left the firm. In March 2015, Ronald O' Hanley was appointed CEO and President of State Street Global Advisors replacing Scott Powers who retired. In June 2015, Greg Ehret was named President continuing to report to Ron O' Hanley, chief executive officer of SSGA. In August 2015, Matt Steinaway was appointed as Chief Risk Officer for SSGA, replacing David Saulnier who has since left the firm. Pia McCusker assumed Matt's role as Head of Global Cash Management. In December 2015, Ronald O' Hanley, Chief Executive Officer of SSGA, re-assumed the role of President of the company upon the departure of Greg Ehret. Steven Lipiner was appointed Chief Financial Officer replacing Keith Crawford who was appointed head of global mergers and acquisitions.

**Past and Future Performance:** Historic performance is not necessarily indicative of actual future investment performance, which could differ substantially.

# GIPS® Report: MSCI EAFE Index Composite

## As of December 31, 2015

### Gross Returns

	Quarter	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception Jan 1985
MSCI EAFE Index Composite	4.71	-0.58	-0.58	5.25	3.85	3.28	N/A
MSCI EAFE® Index	4.71	-0.81	-0.81	5.01	3.60	3.03	N/A

Year	MSCI EAFE Index Composite	MSCI EAFE® Index
2015	-0.58	-0.81
2014	-4.67	-4.90
2013	23.02	22.78
2012	17.63	17.32
2011	-11.92	-12.14
2010	7.97	7.75
2009	32.05	31.78
2008	-43.16	-43.38
2007	11.38	11.17
2006	26.63	26.34

Year	No. of Portfolios	Composite Dispersion	3 Yr Annualized Standard Deviation — Composite	3 Yr Annualized Standard Deviation — Benchmark	Total Assets at End of Period (USD)	% of Firm's Assets	Total Firm Assets (USD mil)
2015	8	0.15	12.45	12.46	30,222,391,500	1.38	2,183,429
2014	7	0.13	13.00	13.03	29,428,863,233	1.23	2,383,493
2013	7	0.15	16.22	16.25	29,266,714,685	1.28	2,279,237
2012	8	0.16	19.29	19.37	29,108,751,239	1.44	2,023,842
2011	8	N/A	22.40	22.43	25,311,047,591	1.43	1,768,142
2010	*	N/A	26.20	26.23	22,035,409,578	1.45	1,518,977
2009	7	N/A	23.59	23.58	18,390,630,133	1.35	1,360,125
2008	6	N/A	19.23	19.24	12,171,065,237	1.28	949,988
2007	11	N/A	9.40	9.43	7,169,417,726	0.58	1,246,382
2006	16	N/A	9.29	9.33	15,287,568,251	1.42	1,073,038

gP-EAFE

\* 5 portfolios or less

\*\* Less than 3 years

Quarterly and YTD returns are not annualized

**Investment Objective:** The Strategy seeks an investment return that approximates as closely as practicable, before expenses, the performance of its benchmark index (the "Index") over the long term.

**Investment Strategy:** 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 equity securities comprising the Index, in approximately the same proportions as they are represented in the Index. Equity securities may include common stocks, preferred stocks, depository receipts, or other securities convertible into common stock. Equity securities held by the Strategy may be denominated in foreign currencies and may be held outside the United States. The Strategy may purchase securities in their initial public offerings ("IPOs"). 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, SSGA 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, prior to or after their removal or addition to the Index. The Strategy may at times purchase or sell index futures contracts, 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.

**Dispersion:** Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

### Footnotes

**Firm Definition:** For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm ("SSGA-Global") is defined as all portfolios managed across the global offices of State Street Global Advisors (SSGA) and SSGA Funds Management, Inc., with the exception of business units which are held out to the marketplace as distinct business entities – Fiduciary Advisory Solutions (formerly known as the Office of the Fiduciary Advisor [OFA]) and Charitable Asset Management (CAM). Prior to 1/1/2011, SSGA-Global also excluded its wrap fee business (Intermediary Business Group [IBG]) and assets accounted for on a book value basis (global cash and stable value assets). In January 2011, SSGA acquired the Bank of Ireland Asset Management Limited (now known as SSGA Ireland Limited), a GIPS® Compliant firm. On 1/1/2012 SSGA Ireland Limited assets were merged into SSGA-Global.

**Composite Description:** The Composite seeks to achieve the Investment Objective described below using the Investment Strategy described below.

**Compliance Statement:** SSGA-Global claims compliance with the Global Investment Performance Standards (GIPS®) and has prepared and presented this report in compliance with GIPS. SSGA-Global claims compliance with the GIPS standards from January 1, 2000. The period prior to January 1, 2000 (where shown) is not in compliance, as not all actual fee-paying portfolios are in a composite. SSGA-Global has been independently verified for the periods January 1, 2000 through December 31, 2014. The verification report is available upon request. Verification assesses whether (1) the firm has complied with all the composite construction requirements of the GIPS standards on a firm-wide basis and (2) the firm's policies and procedures are designed to calculate and present performance in compliance with the GIPS standards. Verification does not ensure the accuracy of any specific composite presentation. In January 2015, the GIPS Firm name changed from "SSgA-Global" to "SSGA-Global".

**List Available:** A complete list of the firm's composites and their descriptions is available upon request.

**Creation Date:** The composite was created on 01/01/09.

**Benchmark Description:** The benchmark for the composite is the MSCI EAFE® Index. Index returns are unmanaged and do not reflect the deduction of any fees or expenses but include all items of income, gain, and loss.

**Currency:** Performance is presented in USD.

**Use of Subadvisors:** None.

**Fees:** Returns are expressed gross of management fees. The results do not reflect the deduction of investment management fees. Some members of this composite may accrue administration fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

**Fee Schedule:** Management fees are 0.080% of the first \$50,000,000; 0.060% of the next \$50,000,000; and 0.050% thereafter. The minimum annual management fee for commingled funds is \$25,000. The minimum annual management fee for separately managed accounts is \$125,000. Management fees may be adjusted based upon specific client requirements.

**Derivatives Use:** SSGA may use futures and other derivatives from time to time in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and not with the purpose of creating investment leverage.

**Calculation Methodology:** Additional information is available upon request regarding the firm's policies and procedures for calculating and reporting performance results as well as valuation procedures.

**Annualized Returns:** All returns for periods greater than one year have been annualized.

**Withholding Taxes Differences:** None.

**Exchange Rates Differences Between Composite & Benchmark:** None.

**Minimum Asset Level for Inclusion:** 0.

**Significant Events:** In November 2007, on the departure of the North America CIO Sean Flannery, Global asset class CIOs were appointed (Alistair Lowe, Asset Allocation and Currency CIO; Mark Marinella, Fixed Income CIO; Steve Meier, Cash CIO and Arlene Rockefeller, Equities CIO). In May 2010, Lynn Blake assumed the role as global head of Index Equity following the retirement of Paul Brakke. In July 2014, on the departure of Maria Dwyer, Matt Steinaway was named interim Chief Risk Officer. Matt replaced Maria Dwyer, who was appointed to the leadership team of the Office of Regulatory Initiatives Oversight. In November 2014, David Saulnier was appointed as Chief Risk Officer for SSGA, replacing Matt Steinaway. Matt Steinaway resumed his position as Head of Global Cash Management. In March 2015, Timothy Corbett was appointed Head of Global Investment Risk replacing Fred Gjerstad who has since left the firm. In March 2015, Ronald O' Hanley was appointed CEO and President of State Street Global Advisors replacing Scott Powers who retired. In June 2015, Greg Ehret was named President continuing to report to Ron O' Hanley, chief executive officer of SSGA. In August 2015, Matt Steinaway was appointed as Chief Risk Officer for SSGA, replacing David Saulnier who has since left the firm. Pia McCusker assumed Matt's role as Head of Global Cash Management. In December 2015, Ronald O' Hanley, Chief Executive Officer of SSGA, re-assumed the role of President of the company upon the departure of Greg Ehret. Steven Lipiner was appointed Chief Financial Officer replacing Keith Crawford who was appointed head of global mergers and acquisitions.

**Past and Future Performance:** Historic performance is not necessarily indicative of actual future investment performance, which could differ substantially.

# GIPS® Report: Daily MSCI EAFE Index Composite

## As of December 31, 2015

### Gross Returns

	Quarter	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception Nov 1993
Daily MSCI EAFE Index Composite	4.72	-0.61	-0.61	5.23	3.85	3.27	N/A
MSCI EAFE® Index	4.71	-0.81	-0.81	5.01	3.60	3.03	N/A

Year	Daily MSCI EAFE Index Composite	MSCI EAFE® Index
2015	-0.61	-0.81
2014	-4.68	-4.90
2013	23.00	22.78
2012	17.68	17.32
2011	-11.93	-12.14
2010	8.10	7.75
2009	32.17	31.78
2008	-43.21	-43.38
2007	11.34	11.17
2006	26.48	26.34

Year	No. of Portfolios	Composite Dispersion	3 Yr Annualized Standard Deviation — Composite	3 Yr Annualized Standard Deviation — Benchmark	Total Assets at End of Period (USD)	% of Firm's Assets	Total Firm Assets (USD mil)
2015	*	N/A	12.47	12.46	3,365,805,185	0.15	2,183,429
2014	*	N/A	13.02	13.03	1,642,052,469	0.07	2,383,493
2013	*	N/A	16.60	16.25	1,381,195,855	0.06	2,279,237
2012	*	N/A	19.62	19.37	1,548,347,979	0.08	2,023,842
2011	*	N/A	22.87	22.43	1,697,293,512	0.10	1,768,142
2010	*	N/A	26.40	26.23	2,847,496,783	0.19	1,518,977
2009	*	N/A	23.81	23.58	3,791,345,722	0.28	1,360,125
2008	*	N/A	19.25	19.24	6,760,949,024	0.71	949,988
2007	*	N/A	9.41	9.43	12,780,277,470	1.03	1,246,382
2006	*	N/A	9.28	9.33	10,084,035,301	0.94	1,073,038

<sup>reg</sup>P-DEAFE

\* 5 portfolios or less

\*\* Less than 3 years

Quarterly and YTD returns are not annualized

**Investment Objective:** The Strategy seeks an investment return that approximates as closely as practicable, before expenses, the performance of its benchmark index (the "Index") over the long term.

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**STATE STREET  
GLOBAL ADVISORS.**

### Footnotes

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**List Available:** A complete list of the firm's composites and their descriptions is available upon request.

**Creation Date:** The composite was created on 1 Jan 09.

**Benchmark Description:** The benchmark for the composite is the MSCI EAFE Index. Index returns are unmanaged and do not reflect the deduction of any fees or expenses but include all items of income, gain, and loss.

**Currency:** Performance is presented in USD. **Use of Subadvisors:** None.

**Fees:** Returns are expressed gross of management fees. The results do not reflect the deduction of investment management fees. Some members of this composite may accrue administration fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

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**Exchange Rates Differences Between Composite & Benchmark:** None. **Minimum Asset Level for Inclusion:** 0. **Dispersion:** Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

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# Appendix B: Important Disclosures

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# Important Risk Disclosures

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All information has been obtained from sources believed to be reliable, but its accuracy is not guaranteed. There is no representation or warranty as to the current accuracy, reliability or completeness of, nor liability for, decisions based on such information and it should not be relied on as such.

On July 1, 2016 State Street Corporation, the parent company of State Street Global Advisors acquired the asset management and advisory services business conducted by GE Asset Management

# Important Disclosures

Equity securities are volatile and can decline significantly in response to broad market and economic conditions.

Investing in foreign domiciled securities may involve risk of capital loss from unfavorable fluctuation in currency values, withholding taxes, from differences in generally accepted accounting principles or from economic or political instability in other nations.

Investments in emerging or developing markets may be more volatile and less liquid than investing in developed markets and may involve exposure to economic structures that are generally less diverse and mature and to political systems which have less stability than those of more developed countries.

Investing in commodities entail significant risk and is not appropriate for all investors. Commodities investing entail significant risk as commodity prices can be extremely volatile due to wide range of factors. A few such factors include overall market movements, real or perceived inflationary trends, commodity index volatility, international, economic and political changes, change in interest and currency exchange rates.

Investments in small/mid sized companies may involve greater risks than in those of larger, better known companies.

ETFs trade like stocks, are subject to investment risk, fluctuate in market value and may trade at prices above or below the ETFs net asset value.

Brokerage commissions and ETF expenses will reduce returns.

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All the index performance results referred to are provided exclusively for comparison purposes only. It should not be assumed that they represent the performance of any particular investment.

# Important Disclosures

Investing in futures is highly risky. Futures positions are considered highly leveraged because the initial margins are significantly smaller than the cash value of the contracts. The smaller the value of the margin in comparison to the cash value of the futures contract, the higher the leverage. There are a number of risks associated with futures investing including but not limited to counterparty credit risk, currency risk, derivatives risk, foreign issuer exposure risk, sector concentration risk, leveraging and liquidity risks.

Companies with large market capitalizations go in and out of favor based on market and economic conditions. Larger companies tend to be less volatile than companies with smaller market capitalizations. In exchange for this potentially lower risk, the value of the security may not rise as much as companies with smaller market capitalizations.

Investments in mid/ small-sized companies may involve greater risks than in those of larger, better known companies.

**This document provides summary information regarding the Strategy. This document should be read in conjunction with the Strategy's Disclosure Document, which is available from SSGA. The Strategy Disclosure Document contains important information about the Strategy, including a description of a number of risks.**

Derivative investments may involve risks such as potential illiquidity of the markets and additional risk of loss of principal.

The S&P 500 Index is a product of S&P Dow Jones Indices LLC ("SPDJ"), and has been licensed for use by SSGA. Standard & Poor's®, S&P® and S&P 500® are registered trademarks of Standard & Poor's Financial Services LLC ("S&P").

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Tracking Code: CMINST-14496

Expiration Date: 12/31/2016

# Appendix C: Biographies

# Biographies



**Patrick J. Hearne**

Patrick is a Principal of State Street Global Advisors and a Senior Client Service Manager responsible for managing institutional client relationships in the Northeast region of the United States.

Prior to his current role, Patrick was a Senior Product Analyst within the Consultant Relations Department at State Street Global Advisors. He was responsible for new business development through the completion of Requests for Proposals for passive equity strategies. He also provided marketing and product support to the Consultant Relations, Sales and Relationship Management Teams. Prior to his role as a product analyst, Patrick was a Database Analyst within the Consultant Relations Group at State Street Global Advisors.

Patrick graduated from the Northeastern University with a Bachelor of Science in Business Administration and Finance. He holds the FINRA series 7 and 63 registrations.



**Arman Palian**

Arman is a Principal of State Street Global Advisors and a Client Service Manager responsible for managing institutional client relationships across the United States.

Prior to his current role, Arman was a member of the SSGA Client Support Team where he worked with clients on general inquiries and trade placement.

Arman earned a Bachelor's of Science in Business Administration with a concentration in finance from Suffolk University.

# REGIONAL TRANSIT ISSUE PAPER

Agenda Item No.	Board Meeting Date	Open/Closed Session	Information/Action Item	Issue Date
18	12/14/16	Retirement	Action	10/05/16

Subject: Receive and File Investment Performance Results for the ATU, IBEW and Salaried Employee Retirement Plans for the Quarter Ended September 30, 2016 (ALL). (Bernegger)

## ISSUE

Receive and File Investment Performance Results for the ATU, IBEW and Salaried Employee Retirement Plans for the Quarter Ended September 30, 2016 (ALL). (Bernegger)

## RECOMMENDED ACTION

Motion: Receive and File Investment Performance Results for the ATU, IBEW and Salaried Employee Retirement Plans for the Quarter Ended September 30, 2016 (ALL). (Bernegger)

## FISCAL IMPACT

None

## DISCUSSION

Pension funds are invested consistent with the Statement of Investment Objectives and Policy Guidelines adopted by each Retirement Board. Attached are the two investment performance reports prepared by the Boards' pension investment consultants. The first report is the Third Quarter 2016 Market Update (Attachment 1) and the second is the Investment Measurement Service Quarterly Review as of September 30, 2016 (Attachment 2). These reports provide a detailed analysis of the performance of each of the investment managers retained by the Retirement Boards to manage the Retirement Funds for the quarter ended September 30, 2016. The second report compares the performance of each investment manager with benchmark indices, other fund managers of similarly invested portfolios and other indices.

### Investment Compliance Monitoring

In accordance with the Statement of Investment Objectives and Policy Guidelines for the Sacramento Regional Transit District Retirement Plans (Investment Policy), State Street Bank performs daily investment compliance monitoring on the Plans' three (3) actively managed funds. As of September 30, 2016, there were no compliance warnings or alerts to be reported; therefore, the investments are in compliance with the Investment Policy. The final attached report includes the monitoring summary (Attachment 3).

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Approved:

Presented:

FINAL 11/22/2016

Chief Financial Officer, Acting

Senior Accountant

# REGIONAL TRANSIT ISSUE PAPER

Agenda Item No.	Board Meeting Date	Open/Closed Session	Information/Action Item	Issue Date
18	12/14/16	Retirement	Action	10/05/16

Subject: Receive and File Investment Performance Results for the ATU, IBEW and Salaried Employee Retirement Plans for the Quarter Ended September 30, 2016 (ALL). (Bernegger)

The table below provides an overview of the quarter performance, quarter ending September 30, 2016 – gross of investment management fees:

Investment Manager - Description - Benchmark	Benchmark <u>Index</u>	ATU, IBEW & Salaried <u>Fund</u>	Investment Gains/ <u>(Losses)</u>	Pension Fund Contributions/ <u>(Withdrawals)</u>
Boston Partners (large cap value) Russell 1000 Value	3.48%	<b>4.55%</b>	\$1,771,194	-
S&P 500 Index (large cap value) S&P 500	3.85%	<b>3.88%</b>	\$1,574,416	\$(537,564)
Atlanta Capital (small cap) Russell 2000	9.05%	2.60%	\$570,144	(260,205)
Brandes (international equities) MSCI EAFE	-	-	\$66	-
JPMorgan (international equities) MSCI EAFE	6.43%	<b>8.53%</b>	\$1,816,393	-
MSCI EAFE Index (international equities) MSCI EAFE	6.43%	<b>6.48%</b>	\$899,468	(12,201,601)
AQR (small cap international equities) MSCI EAFE SC	-	-	\$200,060	12,201,601
Dimensional Fund Advisors (emerging markets) MSCI EM	9.15%	8.09%	\$1,003,710	137,839
Metropolitan West (fixed income) Barclays Agg.	0.46%	<b>0.80%</b>	\$708,071	(277,837)
Totals	3.87%	3.50%	\$8,543,522	\$(937,767)

**Bold** – fund exceeding respective benchmark

The table below provides an overview of the year to date performance, as of September 30, 2016 – net of investment management fees:

Investment Manager - Description - Benchmark	Benchmark <u>Index</u>	ATU, IBEW & Salaried <u>Fund</u>	Investment Gains/ <u>(Loss)</u>	Pension Fund Contributions/ <u>(Withdrawals)</u>
Boston Partners (large cap value) Russell 1000 Value	16.20%	10.34%	\$3,801,993	\$-
S&P 500 Index (large cap value) S&P 500	15.43%	<b>15.45%</b>	\$5,665,678	(1,253,248)
Atlanta Capital (small cap) Russell 2000	15.47%	15.41%	\$3,018,616	(710,906)
Brandes (international equities) MSCI EAFE	-	-	\$(2,050)	-
JPMorgan (international equities) MSCI EAFE	6.52%	<b>8.26%</b>	\$1,756,891	-
MSCI EAFE Index (international equities) MSCI EAFE	6.52%	<b>6.77%</b>	\$959,282	(12,201,601)
AQR (small cap international equities) MSCI EAFE SC	-	-	\$200,060	12,201,601
Dimensional Fund Advisors (emerging markets) MSCI EM	17.21%	<b>18.08%</b>	\$1,987,511	755,895
Metropolitan West (fixed income) Barclays Agg.	5.19%	4.85%	\$4,121,326	(1,680,489)
Totals	10.46%	9.33%	\$21,509,307	\$(2,888,748)

**Bold** – fund exceeding respective benchmark



December 14, 2016



## **Sacramento Regional Transit District**

Third Quarter 2016  
Market Update

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**Anne Heaphy**

SF Fund Sponsor Consulting

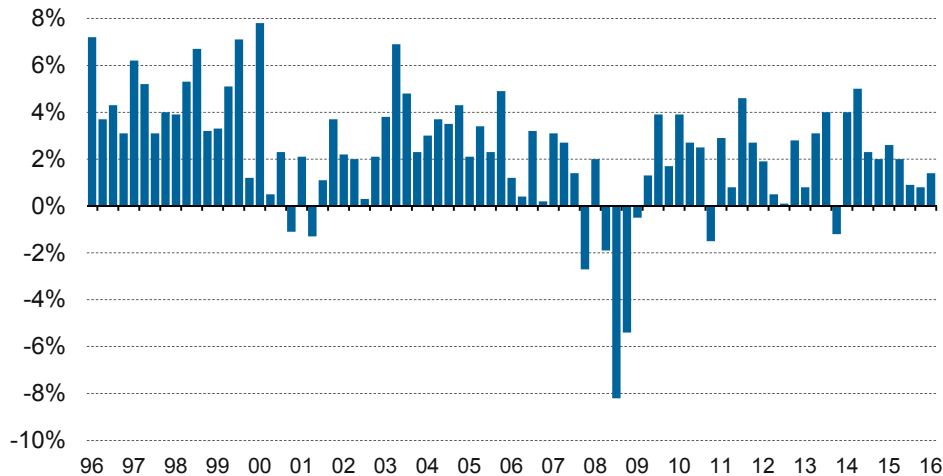
**Uvan Tseng, CFA**

SF Fund Sponsor Consulting

# Economic Commentary

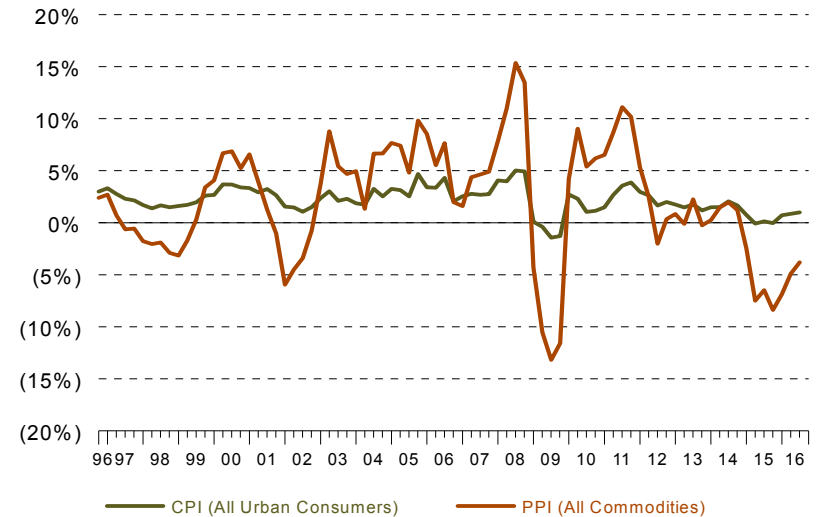
## Third Quarter 2016

Quarterly Real GDP Growth (20 Years)



Source: Bureau of Economic Analysis

Inflation Year-Over-Year



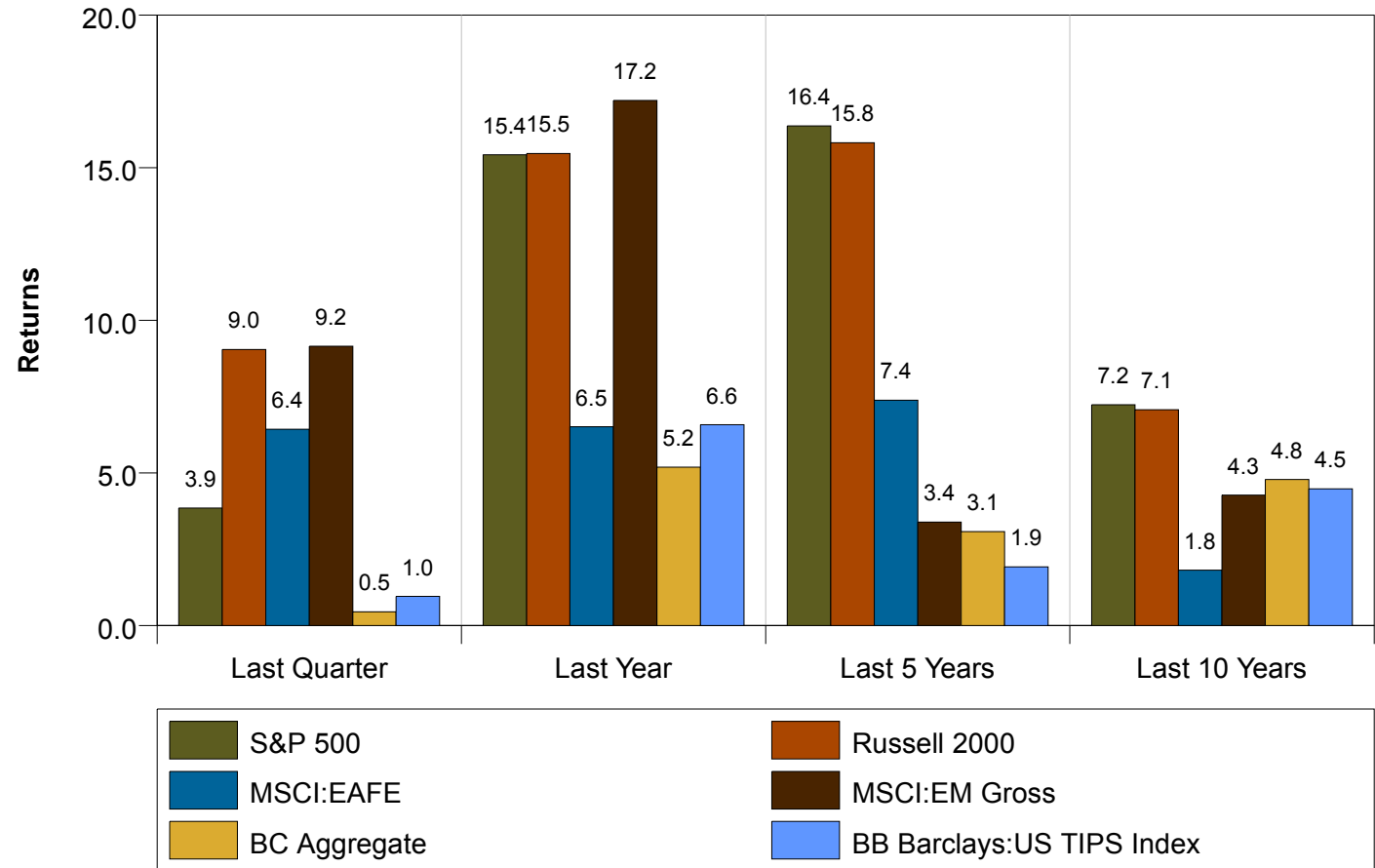
Source: Bureau of Labor Statistics

- The US economy remains slow but steady. The second quarter GDP was revised modestly higher to +1.4%, boosted by robust consumer spending. Fed policymakers now expect growth for all of 2016 to be 1.8%, down from the June expectation of 2.0%.
- The job market remained steady, with job growth averaging 192,000 in the third quarter. Unemployment ticked up slightly to 5.0%, given the increase in labor force. Wages showed signs of improvement, rising 2.6% over the last twelve months; up from August's 2.4% but down slightly from July's 2.7% which had been the highest in seven years.
- The Consumer Price Index for All Urban Consumers (CPI-U) remained muted, up 1.5% for the trailing one year period. Less Food and Energy, CPI-U was up 2.2% for the 12 months ended September 30, 2016.

# Asset Class Performance

Periods Ended September 30, 2016

Asset Class Performance  
for Periods Ended September 30, 2016



YTD as of 12/13/16:

S&P 500:

Russell 2000:

MSCI EAFE:

MSCI EM:

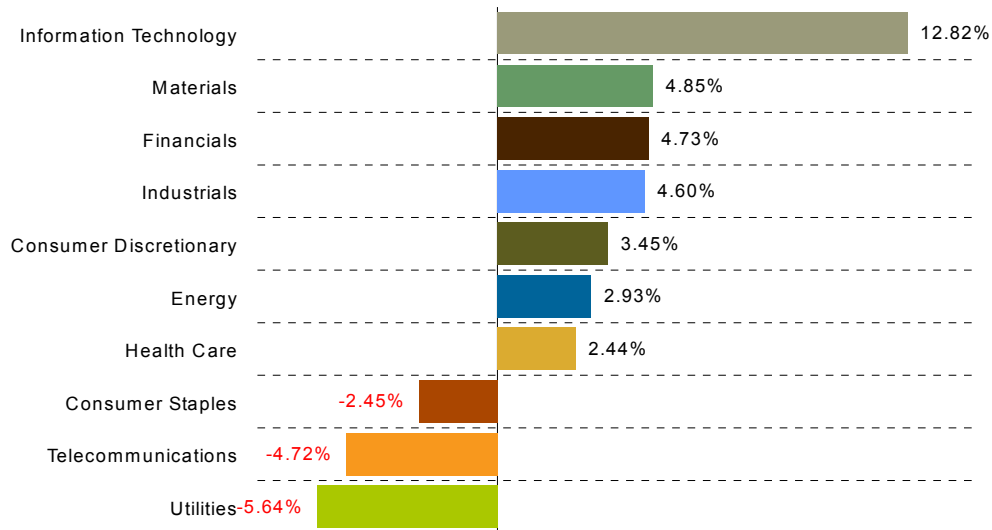
BC Aggregate:

BC TIPS:

# U.S. Equity

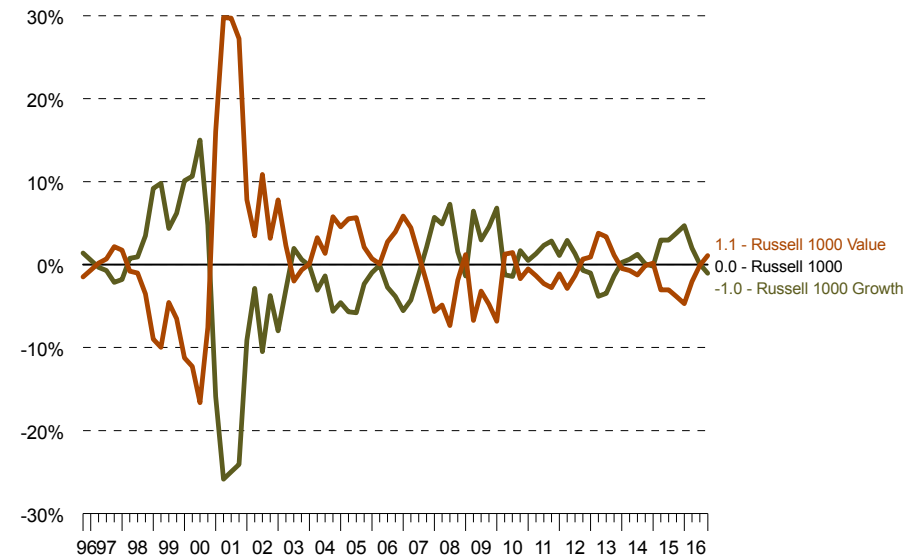
## Third Quarter 2016

### Russell 3000 Sector Returns



Source: Russell Investment Group

### Rolling One-Year Relative Returns (versus Russell:1000 Index)



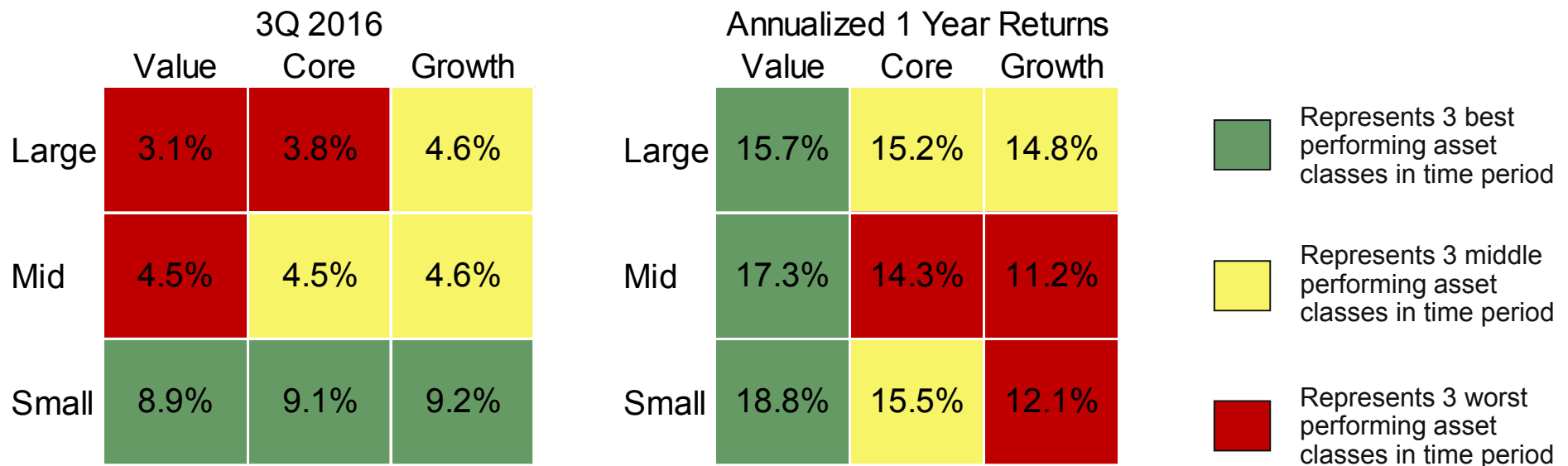
### Third Quarter Index Returns

Russell 3000:	4.40%
S&P 500:	3.85%
Russell Mid Cap:	4.52%
Russell 2000:	9.05%

Source: Russell Investment Group

# U.S. Equity Style Returns

Periods Ended September 30, 2016



- Last Quarter: Growth outperformed value across the market cap spectrum but small cap was the clear winner from a size perspective.
- Trailing Year: Value came out ahead over the last 12 months and large cap generally performing better than mid and small cap.

Large Cap Core is represented by the Russell Top 200 Index, Large Cap Value is represented by the Russell Top 200 Value Index and Large Cap Growth is represented by the Russell Top 200 Growth Index. Mid Cap Core is represented by the Russell Mid Cap Index, Mid Cap Value is represented by the Russell Mid Cap Value Index and Mid Cap Growth is represented by the Russell Mid Cap Growth Index. Small Cap Core is represented by the Russell 2000 Index, Small Cap Value is represented by the Russell 2000 Value Index and Small Cap Growth is represented by the Russell 2000 Growth Index.

# Non-US Equity

Third Quarter 2016

## Regional Quarterly Performance (U.S. Dollar)



- The MSCI ACWI ex USA (+7.0%) rallied, supported by the quarter's risk-on theme from dwindling Brexit anxieties and exceptionally low volatility, a result of accommodative central bank policies and steady economic growth.
- Emerging Markets (+9.2%) were the top performers, besting its developed counterparts in the MSCI World ex USA (+6.3%).
- Southeast Asia and the Pacific enjoyed a buoyant quarter as well. Japanese equities propelled 8.6% due to new central bank policies and a fresh stimulus package.

## Quarterly Return Attribution for EAFE (U.S. Dollar)

Country	Total	Local	Currency	Weight
Australia	7.91%	5.00%	2.77%	7.31%
Austria	16.66%	15.32%	1.16%	0.18%
Belgium	5.00%	3.80%	1.16%	1.37%
Denmark	-6.27%	-7.26%	1.07%	1.76%
Finland	7.42%	6.19%	1.16%	1.00%
France	6.36%	5.14%	1.16%	9.71%
Germany	10.01%	8.75%	1.16%	8.99%
Hong Kong	11.92%	11.89%	0.03%	3.49%
Ireland	7.42%	6.20%	1.16%	0.47%
Israel	-1.97%	-3.96%	2.64%	0.71%
Italy	2.21%	1.04%	1.16%	1.89%
Japan	8.60%	7.20%	1.31%	23.81%
Netherlands	9.11%	7.96%	1.16%	3.35%
New Zealand	12.44%	10.12%	2.11%	0.20%
Norway	6.28%	1.51%	4.70%	0.64%
Portugal	6.28%	5.07%	1.16%	0.15%
Singapore	-0.15%	1.13%	-1.29%	1.27%
Spain	9.32%	8.07%	1.16%	3.04%
Sweden	7.48%	8.68%	-1.11%	2.82%
Switzerland	2.62%	2.12%	0.50%	8.97%
U.K.	3.98%	7.00%	-2.83%	18.87%

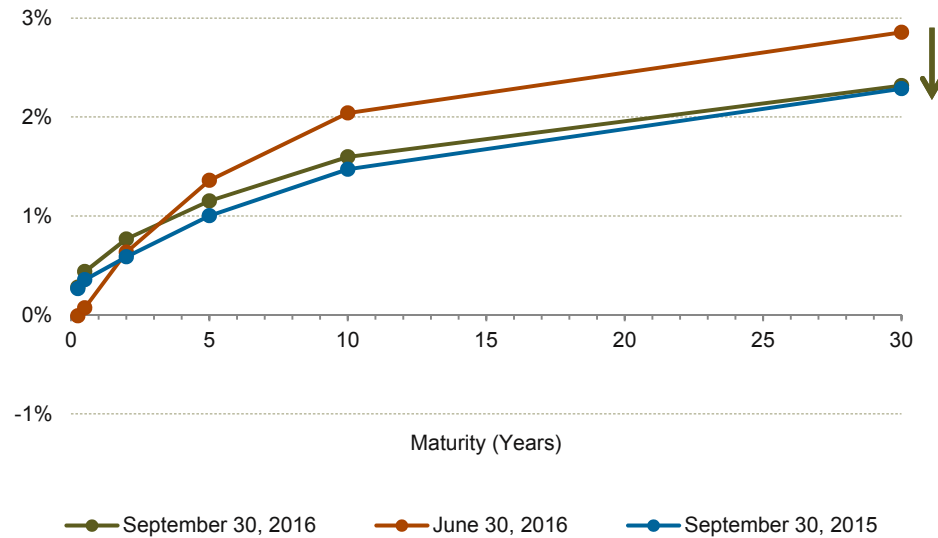
Sources: Callan, MSCI

Source: MSCI

# Fixed Income

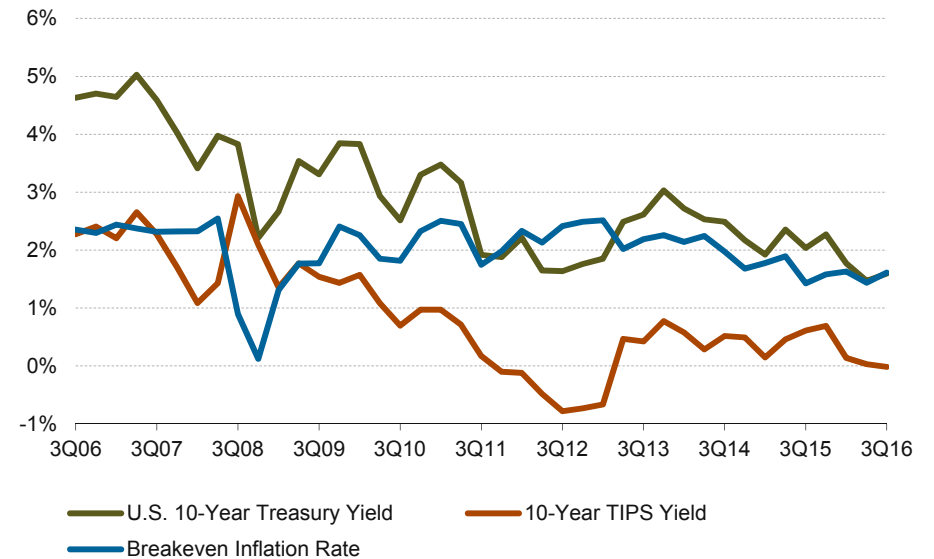
## Third Quarter 2016

### U.S. Treasury Yield Curves



Source: Bloomberg

### Historical 10-Year Yields



Source: Bloomberg

- The Fed stayed the course - leaving the rate unchanged - citing a desire for further evidence of continued economic recovery. However, the high level of disagreement is noteworthy, as it sets the stage for a possible rate hike in November and an even higher chance of a rate hike after that in December.
- Driven by Brexit-induced concerns, the yield on the benchmark 10-year Treasury note hit a record low of 1.37% in July; however, it rose for the remainder of the quarter and closed at 1.60%.
- The curve continued its flattening trend in anticipation of eventual Fed rate hikes. Spread sectors outperformed US Treasuries as spreads tightened.



**Sacramento Regional  
Transit District**

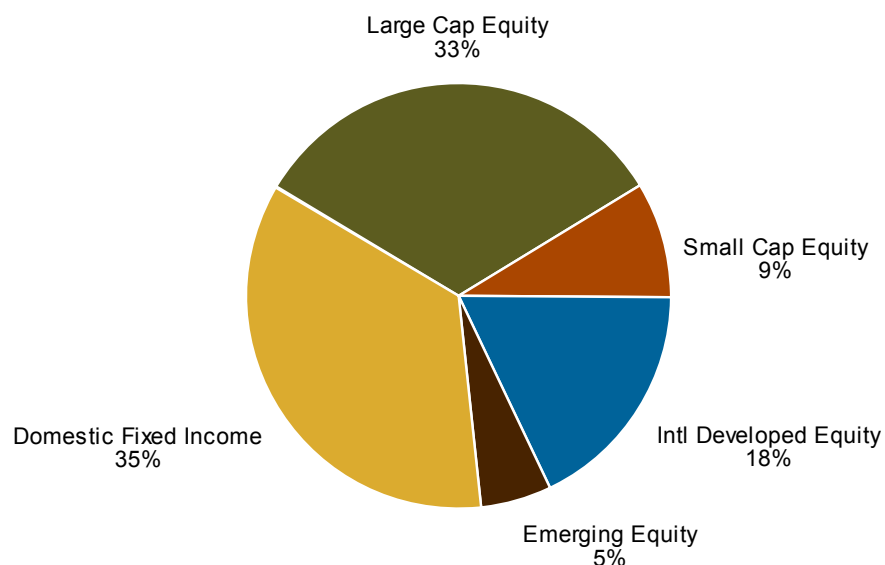
Total Fund Overview



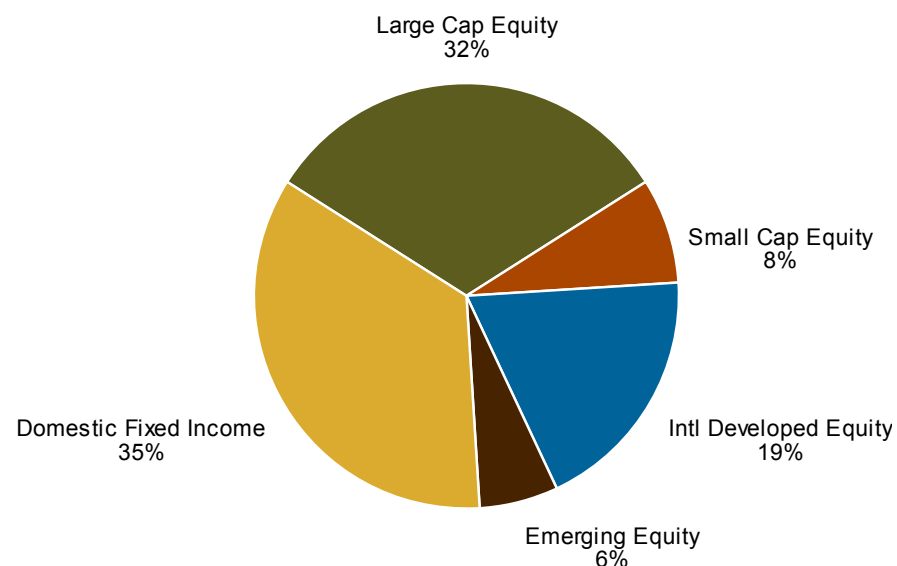
# RT Asset Allocation

As of September 30, 2016

**Actual Asset Allocation**



**Target Asset Allocation**



Asset Class	\$000s Actual	Weight Actual	Target	Percent Difference	\$000s Difference
Large Cap Equity	82,347	32.7%	32.0%	0.7%	1,824
Small Cap Equity	22,260	8.8%	8.0%	0.8%	2,129
Intl Developed Equity	44,758	17.8%	19.0%	(1.2%)	(3,053)
Emerging Equity	13,679	5.4%	6.0%	(0.6%)	(1,419)
Domestic Fixed Income	88,591	35.2%	35.0%	0.2%	518
Total	251,635	100.0%	100.0%		

# Total Fund

## Performance Attribution

### Relative Attribution Effects for Quarter ended September 30, 2016

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap Equity	33%	32%	4.21%	3.85%	0.12%	(0.00%)	0.12%
Small Cap Equity	9%	8%	2.60%	9.05%	(0.57%)	0.05%	(0.52%)
Domestic Fixed Income	36%	35%	0.80%	0.46%	0.13%	(0.03%)	0.10%
International Developed	17%	19%	6.79%	6.43%	0.06%	(0.04%)	0.02%
Emerging Equity	5%	6%	8.09%	9.15%	(0.06%)	(0.04%)	(0.09%)
<b>Total</b>			<b>3.49%</b>	<b>3.87%</b>	<b>+ (0.32%)</b>	<b>+ (0.05%)</b>	<b>(0.37%)</b>

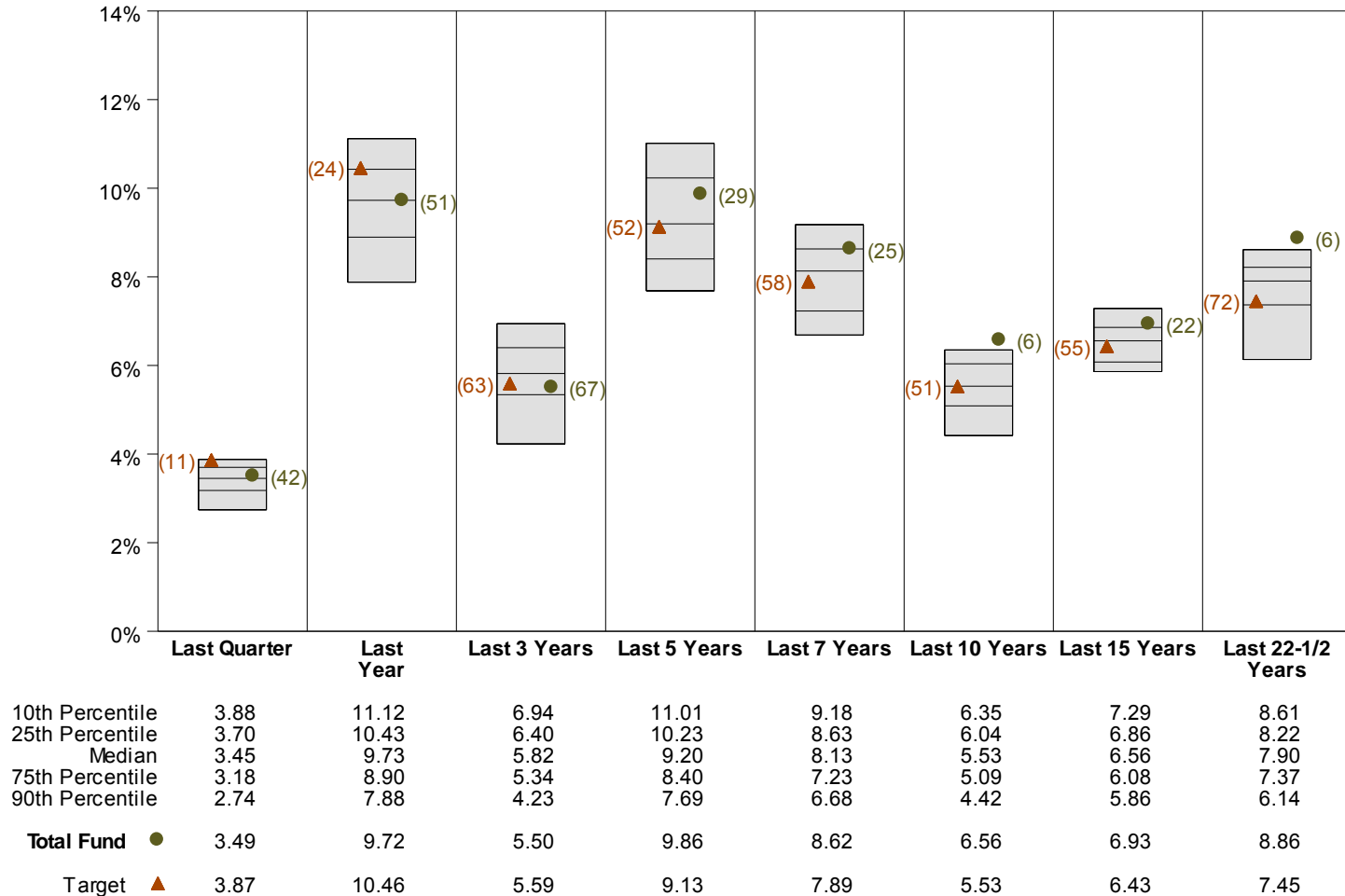
### One Year Relative Attribution Effects

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap Equity	33%	32%	13.23%	15.43%	(0.69%)	(0.01%)	(0.70%)
Small Cap Equity	9%	8%	16.33%	15.47%	0.03%	0.04%	0.07%
Domestic Fixed Income	36%	35%	5.14%	5.19%	(0.03%)	(0.18%)	(0.21%)
International Developed	18%	19%	7.23%	6.52%	0.13%	(0.01%)	0.12%
Emerging Equity	5%	6%	18.81%	17.21%	0.06%	(0.09%)	(0.02%)
<b>Total</b>			<b>9.71%</b>	<b>10.46%</b>	<b>+ (0.50%)</b>	<b>+ (0.25%)</b>	<b>(0.74%)</b>

# Total Fund

Performance as of September 30, 2016

Performance vs CAI Public Fund Sponsor - Mid (100M-1B) (Gross)



# Total Fund

## Manager Asset Allocation

	September 30, 2016			June 30, 2016
	Market Value	Net New Inv.	Inv. Return	Market Value
<b>Consolidated Plan</b>				
<b>Domestic Equity</b>	<b>\$104,607,667</b>	<b>\$(797,769)</b>	<b>\$3,915,754</b>	<b>\$101,489,682</b>
<b>Large Cap</b>	<b>\$82,347,424</b>	<b>\$(537,564)</b>	<b>\$3,345,610</b>	<b>\$79,539,377</b>
Boston Partners	40,706,020	0	1,771,194	38,934,826
SSgA S&P 500	41,641,404	(537,564)	1,574,416	40,604,552
<b>Small Cap</b>	<b>\$22,260,244</b>	<b>\$(260,205)</b>	<b>\$570,144</b>	<b>\$21,950,305</b>
Atlanta Capital	22,260,244	(260,205)	570,144	21,950,305
<b>International Equity</b>	<b>\$58,436,598</b>	<b>\$137,839</b>	<b>\$3,919,697</b>	<b>\$54,379,062</b>
<b>International Developed Equity</b>	<b>\$44,757,846</b>	<b>\$0</b>	<b>\$2,915,987</b>	<b>\$41,841,859</b>
Brandes	9,292	0	66	9,226
JP Morgan	23,098,150	0	1,816,393	21,281,757
SSgA EAFE	9,248,743	(12,201,601)	899,468	20,550,876
AQR	12,401,661	12,201,601	200,060	-
<b>Emerging Equity</b>	<b>\$13,678,752</b>	<b>\$137,839</b>	<b>\$1,003,710</b>	<b>\$12,537,203</b>
DFA Emerging Markets	13,678,752	137,839	1,003,710	12,537,203
<b>Fixed Income</b>	<b>\$88,590,711</b>	<b>\$(277,837)</b>	<b>\$708,071</b>	<b>\$88,160,477</b>
Metropolitan West	88,590,711	(277,837)	708,071	88,160,477
<b>Total Plan - Consolidated</b>	<b>\$251,634,977</b>	<b>\$(937,767)</b>	<b>\$8,543,522</b>	<b>\$244,029,222</b>

# Total Fund

## Manager Returns as of September 30, 2016

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 7 Years
<b>Domestic Equity</b>	<b>3.86%</b>	<b>13.88%</b>	<b>9.75%</b>	<b>16.98%</b>	<b>13.54%</b>
Custom Benchmark	4.84%	15.48%	10.36%	16.31%	13.09%
<b>Large Cap Equity</b>	<b>4.21%</b>	<b>13.23%</b>	<b>9.66%</b>	<b>16.81%</b>	-
Boston Partners	4.55%	10.94%	8.10%	16.85%	12.62%
Russell 1000 Value Index	3.48%	16.20%	9.70%	16.15%	12.34%
SSgA S&P 500	3.88%	15.50%	11.23%	-	-
S&P 500 Index	3.85%	15.43%	11.16%	16.37%	13.17%
<b>Small Cap Equity</b>	<b>2.60%</b>	<b>16.33%</b>	<b>10.11%</b>	<b>17.59%</b>	-
Atlanta Capital	2.60%	16.33%	10.11%	17.59%	-
Russell 2000 Index	9.05%	15.47%	6.71%	15.82%	12.49%
<b>International Equity</b>	<b>7.04%</b>	<b>9.54%</b>	<b>0.52%</b>	<b>6.77%</b>	<b>3.75%</b>
Custom International Benchmark	7.03%	8.85%	0.39%	7.09%	4.03%
<b>International Developed Equity</b>	<b>6.79%</b>	<b>7.23%</b>	<b>0.46%</b>	-	-
JP Morgan	8.53%	9.01%	0.64%	8.12%	5.12%
SSgA EAFE	6.48%	6.88%	0.77%	-	-
MSCI EAFE Index	6.43%	6.52%	0.48%	7.39%	4.24%
<b>Emerging Equity</b>	<b>8.09%</b>	<b>18.81%</b>	<b>1.13%</b>	-	-
DFA Emerging Markets	8.09%	18.81%	1.13%	-	-
MSCI Emerging Mkts Idx	9.15%	17.21%	(0.21%)	3.39%	2.61%
<b>Domestic Fixed Income</b>	<b>0.80%</b>	<b>5.14%</b>	<b>4.10%</b>	<b>4.32%</b>	<b>5.96%</b>
Met West	0.80%	5.14%	4.10%	4.32%	5.96%
BC Aggregate Index	0.46%	5.19%	4.03%	3.08%	4.10%
<b>Total Plan</b>	<b>3.49%</b>	<b>9.72%</b>	<b>5.50%</b>	<b>9.86%</b>	<b>8.62%</b>
Target*	3.87%	10.46%	5.59%	9.13%	7.89%

\*Current quarter target = 35% BB Barclays Agg, 32% S&P 500, 19% MSCI EAFE, 8% Russell 2000, and 6% MSCI Emerging Markets Index

September 30, 2016



## Sacramento Regional Transit District Retirement Plans

Investment Measurement Service  
Quarterly Review

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The following report was prepared by Callan Associates Inc. ("CAI") using information from sources that include the following: fund trustee(s); fund custodian(s); investment manager(s); CAI computer software; CAI investment manager and fund sponsor database; third party data vendors; and other outside sources as directed by the client. CAI assumes no responsibility for the accuracy or completeness of the information provided, or methodologies employed, by any information providers external to CAI. Reasonable care has been taken to assure the accuracy of the CAI database and computer software. Callan does not provide advice regarding, nor shall Callan be responsible for, the purchase, sale, hedge or holding of individual securities, including, without limitation securities of the client (i.e., company stock) or derivatives in the client's accounts. In preparing the following report, CAI has not reviewed the risks of individual security holdings or the conformity of individual security holdings with the client's investment policies and guidelines, nor has it assumed any responsibility to do so. Advice pertaining to the merits of individual securities and derivatives should be discussed with a third party securities expert. Copyright 2016 by Callan Associates Inc.

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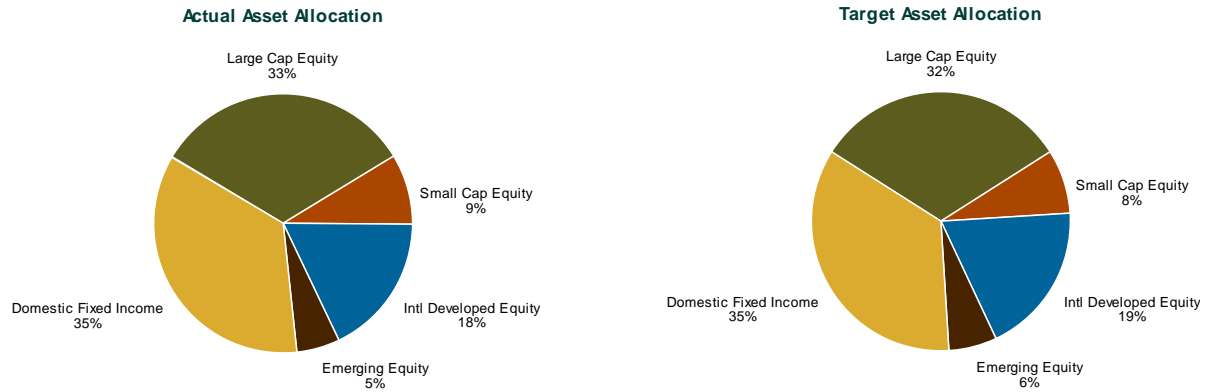
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**Sacramento Regional Transit District**  
*Executive Summary for Period Ending September 30, 2016*

Asset Allocation



Performance

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 7 Years
<b>Total Plan</b>	<b>3.49%</b>	<b>9.72%</b>	<b>5.50%</b>	<b>9.86%</b>	<b>8.62%</b>
Target*	3.87%	10.46%	5.59%	9.13%	7.89%

Recent Developments

N/A

Organizational Issues

N/A

Manager Performance

Manager	Peer Group Ranking		
	Last Year	Last 3 Years	Last 7 Years
Boston Partners	74	75	29
Atlanta Capital	28	16	[14]
JP Morgan	37	77	70
DFA	54	[31]	[26]
MetWest	84	80	4

*Brackets indicate performance linked with manager's composite*

Watch List

- JP Morgan

Items Outstanding

N/A

\*Current quarter target = 35% BB Barclays Agg, 32% S&P 500, 19% MSCI EAFE, 8% Russell 2000, and 6% MSCI Emerging Markets Index





Third Quarter 2016

## October Surprise

### ECONOMY

**2** Real GDP grew a surprisingly strong 2.9% in the third quarter, the best rate in two years. But the days of consumers driving the expansion are likely behind us, although investments in nonresidential construction rose after earlier weakness.

## With a Little Help From My Friends

### FUND SPONSOR

**4** The second quarter's worst performer, endowments and foundations, beat other fund types in the third quarter with a 3.69% gain. Last quarter's champs, corporate funds, finished last. Surprisingly, small funds beat large and medium funds.

## Broad Market Quarterly Returns



Sources: Bloomberg Barclays, Bloomberg, Citigroup, Credit Suisse Hedge Index, Merrill Lynch, MSCI, NCREIF, Russell Investment Group

## Sell in May? No Way!

### U.S. EQUITY

**6** The **S&P 500 Index** hit a new high and rose every month during the third quarter, ending up 3.85%. Small capitalization companies outperformed large cap (**Russell 2000 Index** +9.05% vs. **Russell 1000 Index** +4.03%), while growth outpaced value in all capitalizations.

## Calm After the Storm

### NON-U.S. EQUITY

**9** Global stock markets hit highs as anxieties about the Brexit vote dwindled; even eurozone markets did well as it became clear that the U.K.'s decision to leave the European Union would not be catastrophic. Consistent with investors' risk-on mentality, emerging markets outpaced their developed peers.

## Hut, Hut ... Hike!

### U.S. FIXED INCOME

**12** The yield on the benchmark 10-year Treasury note hit a record low of 1.37% in July, but ended the third quarter slightly higher. High yield corporates were the strongest performer, while Treasuries ended the quarter in the red. Investment-grade corporate bond issuance set a record.

## Globe-Trotting for Yield

### NON-U.S. FIXED INCOME

**15** Sovereign bond markets strengthened during the third quarter, with emerging market bonds outmuscling the developed markets as investors sought yield. Major currencies were mixed as the British pound suffered following the Brexit. And there is now over \$12 trillion of negative-yielding debt globally.

## Returns Take a Summer Vacation

### REAL ESTATE

**17** Both the **NCREIF Property Index** (+1.77%) and the **NCREIF Open End Diversified Core Equity Index** (+1.83%) turned in their worst performances since the first quarter of 2010. Global REITs did better than U.S. REITs; worries over a Fed rate hike appeared to be stronger than the post-Brexit fallout.

## Sticker Shock

### PRIVATE EQUITY

**19** Markets maintained healthy liquidity in the third quarter. Private equity fundraising fell, but year-to-date numbers are very close to last year's. The number of new buyout investments increased slightly, but venture capital investments fell. And the IPO window for buyouts and VC remained open, if just a crack.

## Can't Stop the Feeling

### HEDGE FUNDS

**20** Hedge funds showed modest returns during the quarter, with emerging markets the best-performing strategy. Choppy markets caught managed-futures funds a bit flat-footed. In Callan's database, the median *Callan Long/Short Equity FOF* (+4.26%) outpaced the *Callan Absolute Return FOF* (+2.10%).

## DC Participants Seek Cover

### DEFINED CONTRIBUTION

**21** DC plan balances increased 1.67% in the second quarter, according to the *Callan DC Index™*. Although the Index rose 1.90%, target date funds outpaced it, gaining 2.02%. Unusually, money flowed out of DC plans, by 23 basis points, rather than into them as typically happens.

# October Surprise

ECONOMY | Jay Kloepfer

Real gross domestic product (GDP) grew 2.9% in the third quarter, much stronger than expected, providing a pleasant surprise in a year filled with unpleasant ones. Third-quarter growth was by far the strongest this year and the best quarterly rate in two years. Personal consumption has been driving growth in the U.S. for the past several years, but while consumption accounted for half of the growth in the third quarter, its influence weakened.

Other third-quarter surprises included: a reversal in nonresidential fixed investment; continued growth in software and information processing; an uptick in federal government spending; strength in exports; and a return to inventory investment. Drags came from a decline in residential investment and weakness in state and local government spending, along with an increase in imports, which are a negative in the calculation of GDP.

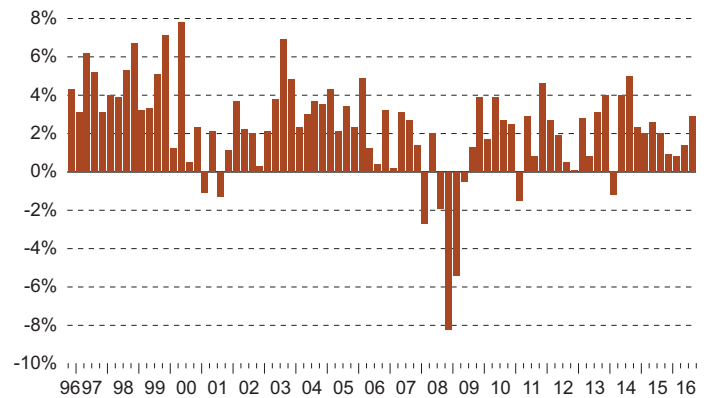
Political and economic shocks—China’s industrial recession, Brexit, the U.S. election—have increased uncertainty and hampered global growth, making many businesses increasingly risk averse. Add the uncertainty stemming from the global monetary policy experiment still underway—not the least of which involves the guessing game regarding the Fed’s interest rate policy—and expectations for U.S. growth soured as the year unfolded.

Real GDP came in very weak in the first quarter and disappointed again in the second, coinciding with the Brexit vote in late June when the U.K. chose to leave the European Union. Consensus expectations for the third quarter had GDP growth falling below 2%, even dipping to 1.5% as recently as September. However, the job market remained sound, consumer sentiment stayed buoyant, and the anticipated turnarounds in inventory and nonresidential fixed investment actually materialized.

The days of consumer spending driving this expansion are likely behind us. Consumption slowed from a robust 4.3% gain in the second quarter to 2.1% in the third; this will likely be the norm going forward. Consumers enjoyed a real shot in the arm from strong job gains for several years and a “dividend” from

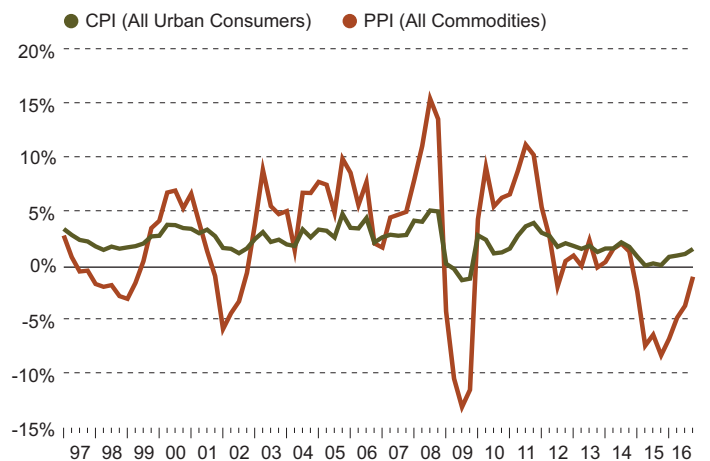
### Quarterly Real GDP Growth

(20 Years)



Source: Bureau of Economic Analysis

### Inflation Year-Over-Year



Source: Bureau of Labor Statistics

low commodity prices. The U.S. economy created an average of 178,000 jobs per month through the first three quarters of 2016. While solid, this is a deceleration from the 211,000 rate in the first nine months of 2015. Although support from the job market and commodity prices is waning, households are still benefiting from increases in real wages, disposable incomes, and asset values.

Highly anticipated reversals in inventory and nonresidential fixed investing provided meaningful gains to the economy in the third

quarter. The U.S. has suffered through an extended inventory correction, causing an outsized impact on overall growth: inventory contraction cut 1.2% from GDP growth in the second quarter, the fifth straight quarterly hit. Inventory investment turned the corner, adding 0.6% to third-quarter GDP. After a six-quarter collapse, investment in mining and petroleum structures began to revive in the third quarter, and the drilling rig count bounced up from an all-time low in the second quarter. This investment in the energy sector, along with gains in other types of structures, pushed nonresidential fixed investment up 3.1%.

Similar gains eluded residential construction, however, where demand appears robust, but supply and financing constraints are hampering the recovery. Real residential investment had been making progress for five years, but fell 7.7% in the second quarter and 6.2% in the third. Demand for housing appears to be solid, but sales of both existing and new homes fell during the third quarter. Potential homebuyers are still hampered by restricted access to mortgage financing, and homebuilders increasingly report challenges to hiring craft labor for projects.

The Fed refrained from raising interest rates over the summer, concerned about economic uncertainty and negative sentiment in the capital markets. The markets now expect the Fed to raise the short-term federal funds rate 25 basis points in December, and perhaps twice more in 2017, but these are fewer increases than previously predicted. In addition, the long-term equilibrium federal funds rate target has been cut from 3% to 2.6%.

Are central banks around the globe running out of ammunition? Rather than a dearth of ammunition, it seems the effectiveness of monetary policy is diminishing and with it the credibility of central banks. After the Great Recession, central bankers showed

**The Long-Term View**

Index	2016 3rd Qtr	Periods ended Dec. 31, 2015			
		Year	5 Yrs	10 Yrs	25 Yrs
<b>U.S. Equity</b>					
Russell 3000	4.40	0.48	12.18	7.35	10.03
S&P 500	3.85	1.38	12.57	7.31	9.82
Russell 2000	9.05	-4.41	9.19	6.80	10.50
<b>Non-U.S. Equity</b>					
MSCI EAFE	6.43	-0.81	3.60	3.03	5.40
MSCI Emerging Markets	9.03	-14.92	-4.80	3.61	-
S&P ex-U.S. Small Cap	7.98	5.92	5.51	5.33	6.80
<b>Fixed Income</b>					
Bloomberg Barclays Agg	0.46	0.55	3.25	4.51	6.15
90-Day T-Bill	0.10	0.05	0.07	1.24	2.93
Bloomberg Barclays Long G/C	1.24	-3.30	6.98	6.45	8.08
Citi Non-U.S. Government	0.59	-5.54	-1.30	3.05	5.37
<b>Real Estate</b>					
NCREIF Property	1.77	13.33	12.18	7.76	8.05
FTSE NAREIT Equity	-1.43	3.20	11.96	7.41	12.13
<b>Alternatives</b>					
CS Hedge Fund	1.74	-0.71	3.55	4.97	-
Cambridge PE*	-	8.50	12.41	11.50	15.59
Bloomberg Commodity	-3.86	-24.66	-13.47	-6.43	-
Gold Spot Price	-0.27	-10.46	-5.70	7.41	4.02
<b>Inflation – CPI-U</b>	0.17	0.73	1.53	1.86	2.30

\*Private equity data is time-weighted return for period. Most recent quarterly data not available. Sources: Bloomberg Barclays, Bloomberg, Citigroup, Credit Suisse, FTSE, MSCI, NCREIF, Russell Investment Group, Standard & Poor's, Thomson/Cambridge, Bureau of Economic Analysis.

a remarkable willingness to try unorthodox policies, including quantitative easing (QE) and negative interest rates. But persistent banking problems (particularly in Europe and Japan) have made QE less effective, as central bank funds are used to rebuild bank balance sheets rather than for lending. In addition, tight fiscal policies have offset potential gains from monetary stimulus. And all regions have seen a drop in productivity growth, reducing the effectiveness of monetary or fiscal stimulation.

**Recent Quarterly Economic Indicators**

	3Q16	2Q16	1Q16	4Q15	3Q15	2Q15	1Q15	4Q14
Employment Cost–Total Compensation Growth	2.3%	2.3%	1.9%	2.0%	2.0%	2.0%	2.6%	2.2%
Nonfarm Business–Productivity Growth	0.6%*	-0.6%	-0.6%	-1.7%	2.0%	3.1%	-0.8%	-1.7%
GDP Growth	2.9%	1.4%	0.8%	0.9%	2.0%	2.6%	2.0%	2.3%
Manufacturing Capacity Utilization	75.0%	74.9%	75.3%	75.4%	75.6%	75.5%	75.5%	76.0%
Consumer Sentiment Index (1966=100)	90.3	92.4	91.5	91.3	90.8	94.2	95.5	89.8

\*Estimate.

Sources: Bureau of Economic Analysis, Bureau of Labor Statistics, Federal Reserve, IHS Economics, Reuters/University of Michigan.

## With a Little Help From My Friends

FUND SPONSOR | Kitty Lin

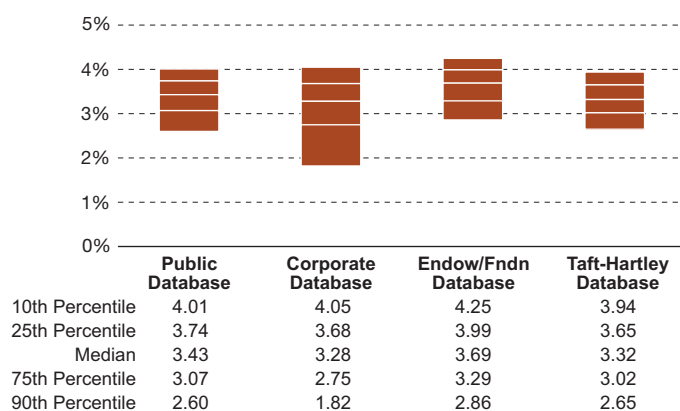
In a sharp shift from last quarter, endowments and foundations turned around and performed better than all other institutional fund types, with a median +3.69% return. Corporate funds, last quarter's best performer, brought up the rear at +3.28%. The median return for all fund types was +3.44%, according to Callan's database.

Interestingly, the rankings shifted slightly when looking at the top 10% of returns. Endowments and foundations still topped the list (+4.25%), but Taft-Hartley funds ranked last (+3.94%). Still, corporate funds and Taft-Hartley funds have done best over longer time periods. Corporates are on top over the last 15 years (+6.89% annualized) while Taft-Hartley funds edged them out over the last five years (+9.84%).

The outperformance from endowments/foundations stemmed from their "friends" in the stock market: non-U.S. equities. The **MSCI ACWI ex-USA Index** gained 6.91% in the third quarter, compared to +4.03% for the **Russell 1000 Index**. That came despite the shock of the U.K.'s Brexit vote to leave the European Union.

The underperformance from corporate funds stemmed from higher allocations to U.S. fixed income; in fact, both U.S. and non-U.S. fixed income markets continued to show lackluster performance (**Bloomberg Barclays Aggregate Index**: +0.46%, **Citi Non-U.S. World Government Bond Index**:

### Callan Fund Sponsor Returns for the Quarter



Source: Callan

+0.59%). The decision of central banks in Europe and Japan not to cut rates and the upcoming U.S. election may have contributed to the disappointing returns for both in the quarter. As fixed income markets look less attractive these days, corporate funds increased their allocation of cash compared to the previous quarter.

By size, returns varied much less. Both large (more than \$1 billion in assets) and medium funds (\$100 million to \$1 billion) gained 3.43%, but surprisingly small funds (less than \$100 million) outpaced both, at +3.47%. Over the long haul large funds were the champs, +7.05% over 15 years versus +6.58% for medium funds and +6.35% for small funds.

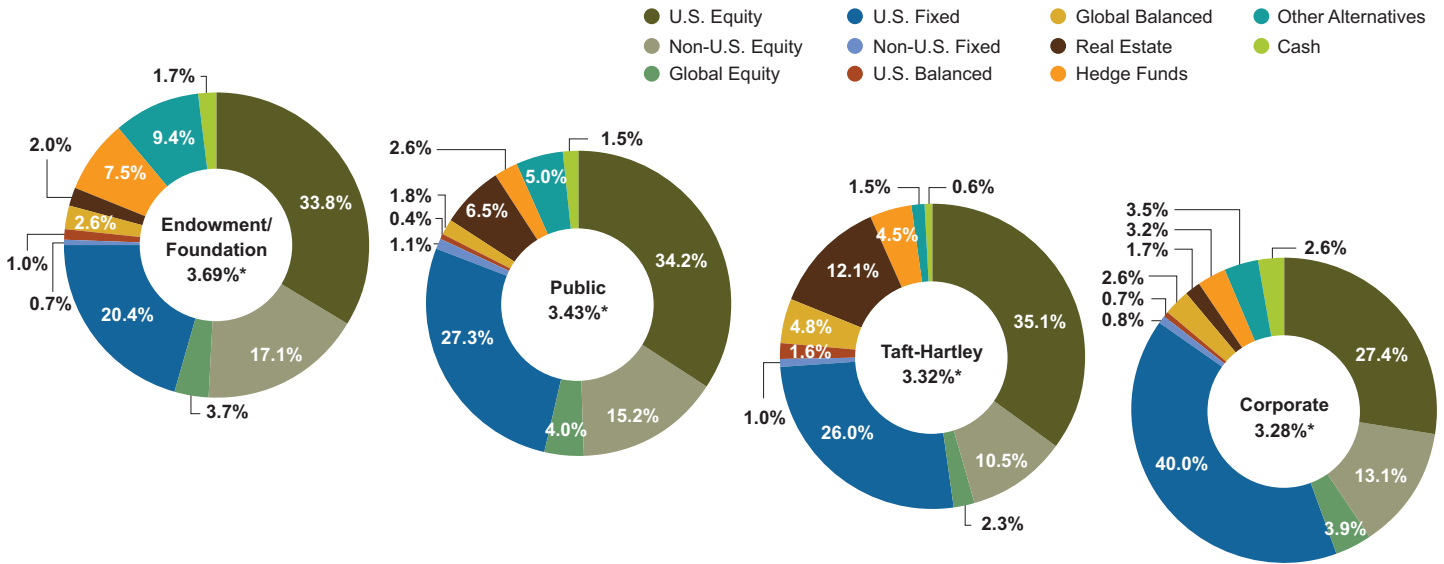
### Callan Database Median Returns\* for Periods ended September 30, 2016

Fund Sponsor	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
Public Funds	3.43	6.65	9.63	6.12	9.30	5.66	6.72
Corporate Funds	3.28	7.64	10.22	6.29	9.22	5.91	6.89
Endowments/Foundations	3.69	6.13	8.81	4.99	8.52	5.39	6.54
Taft-Hartley	3.32	6.49	9.45	6.74	9.84	5.58	6.26

\*Returns less than one year are not annualized.

Source: Callan. Callan's database includes the following groups: public defined benefit, corporate defined benefit, endowments/foundations, and Taft-Hartley plans. Approximately 10% to 15% of the database constituents are Callan's clients. All database group returns presented gross of fees. Past performance is no guarantee of future results. Reference to or inclusion in this report of any product, service, or entity should not be construed as a recommendation, approval, affiliation, or endorsement of such product, service, or entity by Callan.

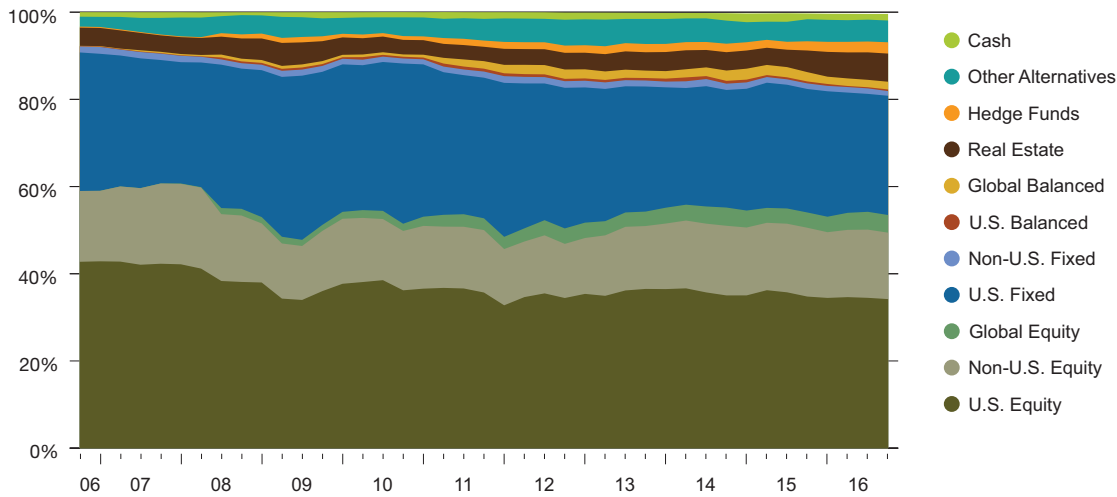
Callan Fund Sponsor Average Asset Allocation



\*Latest median quarter return.  
 Note: charts may not sum to 100% due to rounding.  
 Source: Callan

Callan Public Fund Database Average Asset Allocation

(10 Years)



Source: Callan. Callan's database includes the following groups: public defined benefit, corporate defined benefit, endowments/foundations, and Taft-Hartley plans. Approximately 10% to 15% of the database constituents are Callan's clients. All database group returns presented gross of fees. Past performance is no guarantee of future results. Reference to or inclusion in this report of any product, service, or entity should not be construed as a recommendation, approval, affiliation, or endorsement of such product, service, or entity by Callan.

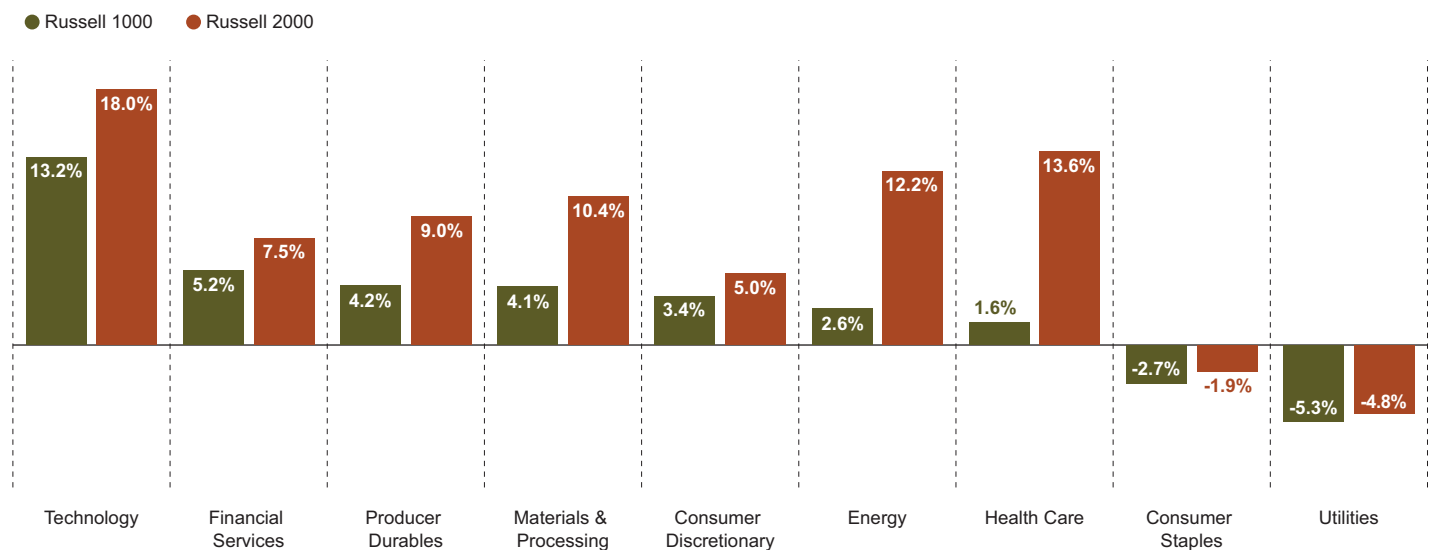
# Sell in May? No Way!

U.S. EQUITY | Mark Wood, CFA

The **S&P 500 Index** climbed to its all-time high of 2,193 on August 15 and finished the quarter up 3.85%, ending in positive territory for the fourth quarter in a row. The early days of the quarter were characterized by a strong rebound in equity markets following the late June vote in the U.K. to leave the European Union (Brexit). Market volatility (as measured by VIX) spiked in the immediate aftermath but retreated just as quickly as investors absorbed the shock. The swift pivot, coupled with optimism over U.S. economic prospects and easing fears on China, led to a risk-on environment. July produced the strongest returns of the quarter across market capitalizations; August and September traded in a narrow (but ultimately positive) range as markets anticipated the Fed's interest rate decision in mid-September, which was to forego a rate hike. Foreign developed market indices outperformed the S&P 500 and, consistent with the quarter's risk-on theme, emerging markets were the top performers.

Size was the single biggest determinant of performance. Smaller companies did better—micro, small, and mid-capitalization companies outpaced large-cap stocks (**Russell Microcap Index**: +11.25%, **Russell 2000 Index**: +9.05%, **Russell Midcap Index**: +4.52%, and **Russell 1000 Index**: +4.03%). Additionally, after two strong quarters value underperformed growth in all capitalizations (**Russell 2000 Value Index**: +8.87% and **Russell 2000 Growth Index**: +9.22%). The dispersion in style returns was narrow across market capitalizations, with the widest (110 bps) in large cap (**Russell 1000 Growth** minus **Russell 1000 Value**). Defensive and high-dividend yield exposures sold off during the third quarter but have performed well year-to-date due to the increased global economic uncertainty earlier in 2016.

## Economic Sector Quarterly Performance



Source: Russell Investment Group

Note: As of the fourth quarter of 2015, the Capital Market Review reports sector-specific returns using the Russell Global Sectors (RGS) classification system rather than the Global Industry Classification Standard (GICS) system. RGS uses a three-tier classification system containing nine sectors; GICS uses a four-tier system containing 11 sectors.

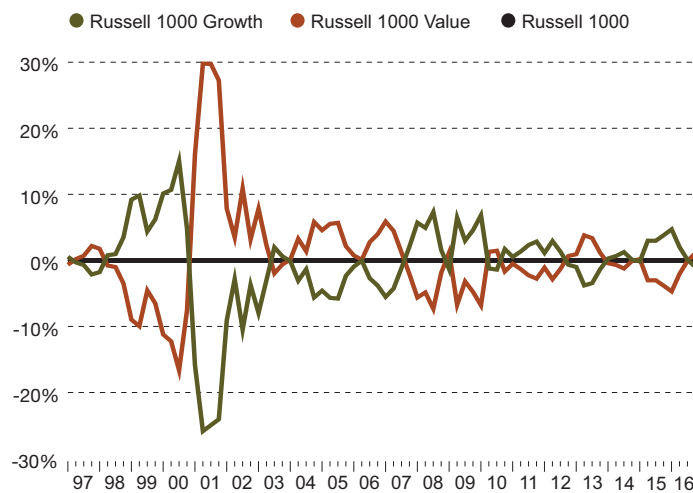


Sector performance reflected the shift in risk attitudes. Among the worst-performing sectors in the S&P 500 during the quarter were Utilities (-0.7%), Consumer Staples (-0.7%), and Telecom (+1.0%)—all sectors associated with lower volatility and higher dividend yields. After a strong performance in the second quarter, Energy retreated, posting a 1.9% loss for the quarter. The more growth-oriented, risk-on sectors, Technology (+7.9%) and Health Care (+4.9%), were the top performers. In a new development, REITs and other listed real estate companies were extracted from the Financials sector and elevated to a new Real

Estate sector in the Global Industry Classification Standard (GICS). The new sector, representing 3.1% of the S&P 500, had a tough start, finishing down 2.1%.

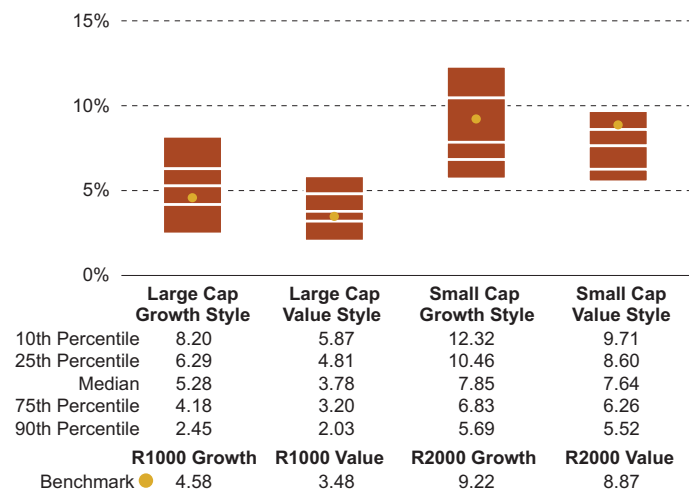
The U.S. equity market continued to rise, even as investor sentiment wavered between positive and negative over the course of the quarter. Active managers continue to find it a difficult environment to outperform as macro factors dominated price activity and performance in equity markets.

**Rolling One-Year Relative Returns** (vs. Russell 1000)



Source: Russell Investment Group

**Callan Style Group Quarterly Returns**



Sources: Callan, Russell Investment Group

**U.S. Equity Index Characteristics as of September 30, 2016**

	S&P 500	Rus 3000	Rus 1000	Rus Midcap	Rus 2500	Rus 2000
Number of Issues	507	2,955	994	794	2,459	1,961
Wtd Avg Mkt Cap (\$bn)	134.8	112.6	121.7	12.6	4.0	1.8
Price/Book Ratio	2.7	2.6	2.7	2.4	2.1	2.0
Forward P/E Ratio	16.9	17.4	17.2	18.9	19.2	19.8
Dividend Yield	2.1%	2.0%	2.0%	1.7%	1.6%	1.5%
5-Yr Earnings (forecasted)	12.5%	12.5%	12.5%	11.2%	12.0%	13.5%

Sources: Russell Investment Group, Standard & Poor's.

## U.S. EQUITY (Continued)

### Callan Style Median and Index Returns\* for Periods ended September 30, 2016

Large Cap Equity	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
<b>Large Cap Core Style</b>	<b>4.55</b>	<b>5.71</b>	<b>12.77</b>	<b>10.64</b>	<b>16.13</b>	<b>7.39</b>	<b>7.80</b>
Russell 3000	4.40	8.18	14.96	10.44	16.36	7.37	7.61
Russell 1000	4.03	7.92	14.93	10.78	16.41	7.40	7.48
S&P 500	3.85	7.84	15.43	11.16	16.37	7.24	7.15
<b>Large Cap Growth Style</b>	<b>5.28</b>	<b>3.69</b>	<b>11.27</b>	<b>10.85</b>	<b>16.24</b>	<b>8.94</b>	<b>7.55</b>
Russell 1000 Growth	4.58	6.00	13.76	11.83	16.60	8.85	7.35
<b>Large Cap Value Style</b>	<b>3.78</b>	<b>7.61</b>	<b>13.71</b>	<b>8.99</b>	<b>15.88</b>	<b>6.54</b>	<b>8.08</b>
Russell 1000 Value	3.48	10.00	16.20	9.70	16.15	5.85	7.46
Mid Cap Equity	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
<b>Mid Cap Core Style</b>	<b>4.98</b>	<b>7.80</b>	<b>11.05</b>	<b>9.88</b>	<b>16.81</b>	<b>8.65</b>	<b>10.96</b>
Russell Midcap	4.52	10.26	14.25	9.70	16.67	8.32	10.44
<b>Mid Cap Growth Style</b>	<b>4.05</b>	<b>4.30</b>	<b>6.98</b>	<b>6.98</b>	<b>14.55</b>	<b>8.62</b>	<b>9.53</b>
Russell Midcap Growth	4.59	6.84	11.24	8.90	15.85	8.51	9.66
<b>Mid Cap Value Style</b>	<b>4.82</b>	<b>9.73</b>	<b>13.35</b>	<b>9.30</b>	<b>16.62</b>	<b>8.48</b>	<b>10.99</b>
Russell Midcap Value	4.45	13.72	17.26	10.49	17.38	7.89	10.72
Small Cap Equity	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
<b>Small Cap Core Style</b>	<b>7.62</b>	<b>10.07</b>	<b>14.32</b>	<b>8.51</b>	<b>17.63</b>	<b>8.55</b>	<b>11.31</b>
Russell 2000	9.05	11.46	15.47	6.71	15.82	7.07	9.26
<b>Small Cap Growth Style</b>	<b>7.85</b>	<b>6.52</b>	<b>8.73</b>	<b>5.47</b>	<b>15.82</b>	<b>9.13</b>	<b>9.81</b>
Russell 2000 Growth	9.22	7.48	12.12	6.58	16.15	8.29	8.90
<b>Small Cap Value Style</b>	<b>7.64</b>	<b>12.74</b>	<b>15.90</b>	<b>7.92</b>	<b>17.11</b>	<b>8.05</b>	<b>11.63</b>
Russell 2000 Value	8.87	15.49	18.81	6.77	15.45	5.78	9.38
Smid Cap Equity	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
<b>Smid Cap Core Style</b>	<b>6.32</b>	<b>9.21</b>	<b>12.42</b>	<b>7.64</b>	<b>16.34</b>	<b>9.96</b>	<b>-</b>
Russell 2500	6.56	10.80	14.44	7.77	16.30	7.95	10.07
<b>Smid Cap Growth Style</b>	<b>6.03</b>	<b>4.73</b>	<b>8.39</b>	<b>6.01</b>	<b>15.25</b>	<b>9.23</b>	<b>9.85</b>
Russell 2500 Growth	6.98	6.95	11.02	7.43	16.20	8.82	9.52
<b>Smid Cap Value Style</b>	<b>6.39</b>	<b>12.17</b>	<b>14.71</b>	<b>7.37</b>	<b>16.23</b>	<b>8.56</b>	<b>11.41</b>
Russell 2500 Value	6.18	14.51	17.68	8.05	16.29	6.92	10.17
Russell 3000 Sectors	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
Consumer Discretionary	3.50	4.52	8.99	9.57	19.01	10.11	-
Consumer Staples	-2.67	7.48	15.77	13.92	15.95	11.57	-
Energy	2.87	17.69	16.60	-4.26	4.72	3.84	-
Financial Services	5.44	4.35	10.18	9.69	17.97	0.87	-
Health Care	2.40	0.92	9.82	14.21	20.52	10.82	-
Materials & Processing	4.98	16.18	25.84	7.17	14.12	6.94	-
Producer Durables	4.61	10.99	18.76	9.54	17.48	7.29	-
Technology	13.49	13.07	22.76	16.28	17.08	10.27	-
Utilities	-5.31	17.12	21.88	11.87	12.44	7.07	-

\*Returns less than one year are not annualized.

Sources: Callan, Russell Investment Group, Standard & Poor's.

# Calm After the Storm

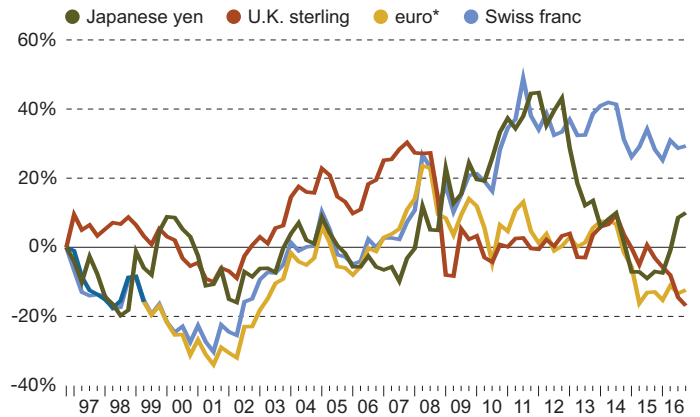
NON-U.S. EQUITY | Irina Sushch

Following two highly volatile quarters, the third quarter of 2016 bucked the trend—volatility was exceptionally low as investors appeared complacent about continued accommodative central bank policies and steady, albeit slow, economic growth. A risk-on rally led to stock market highs as anxieties about the U.K.'s Brexit vote to exit the European Union dwindled.

In this environment, the **MSCI ACWI ex USA Index** rose 6.91%. In contrast to the previous quarter, economically sensitive sectors fared best, particularly Information Technology (+15.50%) and Materials (+12.56%). Health Care was the only sector in the red (-1.96%), although its defensive counterparts, Utilities (+0.20%) and Telecommunications (+0.43%), faltered as well. Consistent with the quarter's risk-on theme, emerging markets (**MSCI Emerging Markets Index**: +9.03%) outpaced their developed peers (**MSCI World ex USA Index**: +6.29%), even excluding Canada (**MSCI EAFE Index**: +6.43%). The **MSCI ACWI ex USA Value Index** (+7.79%) overcame the **MSCI ACWI ex USA Growth Index** (+6.06%) for the first time since the second quarter of 2014. Small-cap stocks shot up into the black (**MSCI ACWI ex USA Small Cap Index**: +7.91%), finishing near the top among major non-U.S. indices.

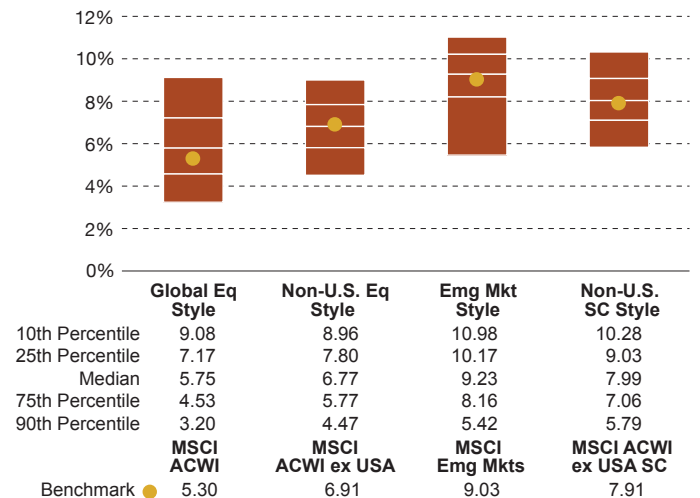
Equity markets across Europe crashed following the unexpected vote for Brexit but regained ground quickly as it became clear that the aftermath of the referendum was not immediately catastrophic. British Prime Minister David Cameron resigned and was replaced by Theresa May, who pledged that the U.K. would go through with exiting the European Union, but not hastily. The Bank of England sprang into action to support the economy, and the European Central Bank offered reassurance that it too would work to bolster growth. The **MSCI Europe Index** climbed 5.40%, with the strong performers including Austria (+16.66%), Germany (+10.01%), Spain (+9.32%), the Netherlands (+9.11%), and even the U.K. (+3.98%). Their vigor was attributed to better-than-expected earnings from Information Technology giants, improving commodity prices, rallying financial stocks, and a swell of M&A activity. European

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



\* German mark returns before 1Q99  
Source: MSCI

## Callan Style Group Quarterly Returns



Sources: Callan, MSCI

Health Care stocks stumbled (-3.09%) due to intensified global scrutiny during the U.S. election; Denmark, where a large health care company makes up approximately 20% of the country's index, was particularly hard hit, dropping 6.27%.

Southeast Asia and the Pacific enjoyed a buoyant quarter as well; the **MSCI Pacific Index** was up 8.46%. Japanese equities rallied during the quarter, ascending 8.60% due to new

## NON-U.S. EQUITY (Continued)

central bank policies and a fresh stimulus package. Additionally, Consumer Discretionary, IT, and Materials stocks surged due to strong earnings growth in several gaming and automobile companies. Australia (+7.91%) and New Zealand (+12.44%) also performed well as megabanks and commodities gained ground.

Emerging markets shot up in the accommodative macroeconomic environment (MSCI Emerging Markets Index: +9.03%). The top sector was IT, surging 16.08%. The stocks of smart-phone manufacturers and technology component suppliers soared, boosting the Asian markets, including Taiwan (+11.70%) and South Korea (+10.98%). China was one of the biggest beneficiaries (+13.92%), thanks to its burgeoning internet giants. Latin America was relatively sluggish this quarter (+5.37%) but was propped up by Brazil, which shot up another 11.31%, skyrocketing 62.90% year-to-date. Hopes for economic change run high under Michel Temer, who replaced the impeached Dilma

### Quarterly Returns for Non-U.S. Developed Countries

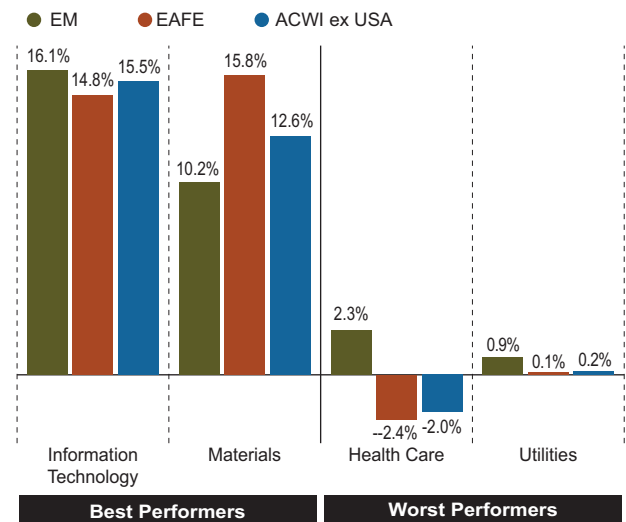
Country	Equity Index			Weight*
	(US\$)	(Local Currency)	Local Currency	
Australia	7.91%	5.00%	2.77%	5.13%
Austria	16.66%	15.32%	1.16%	0.13%
Belgium	5.00%	3.80%	1.16%	0.96%
Canada	4.85%	6.10%	-1.18%	6.72%
Denmark	-6.27%	-7.26%	1.07%	1.23%
Finland	7.42%	6.19%	1.16%	0.70%
France	6.36%	5.14%	1.16%	6.81%
Germany	10.01%	8.75%	1.16%	6.31%
Hong Kong	11.92%	11.89%	0.03%	2.45%
Ireland	7.42%	6.20%	1.16%	0.33%
Israel	-1.97%	-3.96%	2.64%	0.50%
Italy	2.21%	1.04%	1.16%	1.33%
Japan	8.60%	7.20%	1.31%	16.70%
Netherlands	9.11%	7.96%	1.16%	2.35%
New Zealand	12.44%	10.12%	2.11%	0.14%
Norway	6.28%	1.51%	4.70%	0.45%
Portugal	6.28%	5.07%	1.16%	0.10%
Singapore	-0.15%	1.13%	-1.29%	0.89%
Spain	9.32%	8.07%	1.16%	2.13%
Sweden	7.48%	8.68%	-1.11%	1.97%
Switzerland	2.62%	2.12%	0.50%	6.29%
U.K.	3.98%	7.00%	-2.83%	13.23%

\*Weight in the MSCI ACWI ex USA Index

Sources: MSCI, Russell Investment Group, Standard & Poor's.

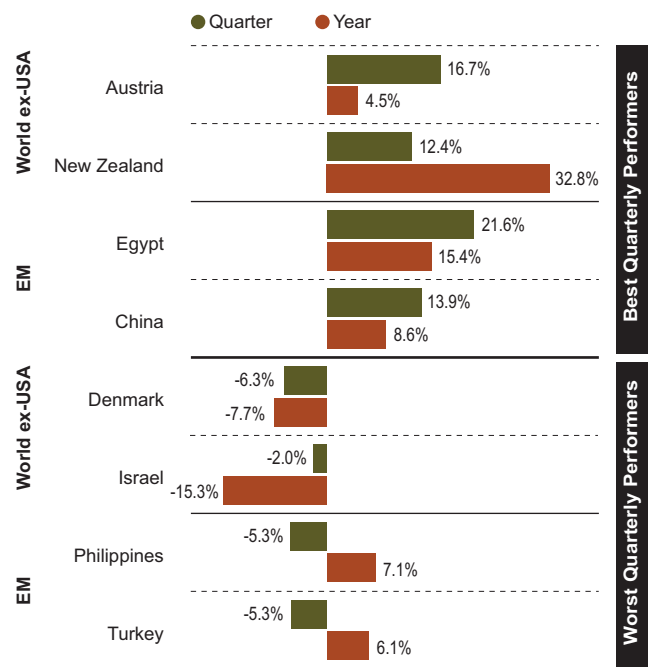
Rousseff as president. Russia (+8.43%) did not miss out on the rally. However, the Philippines, Turkey, and Malaysia were all in the red as political turmoil continued to afflict the countries (-5.33%, -5.26%, and -1.52%, respectively). Mexico also dwindled 2.24% as the peso fell 5% against the dollar.

### Quarterly Returns: Strong and Struggling Sectors



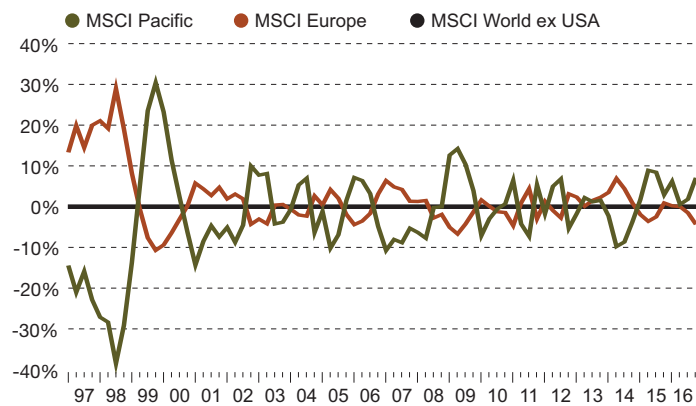
Source: MSCI

### Quarterly and Annual Country Performance Snapshot



Source: MSCI

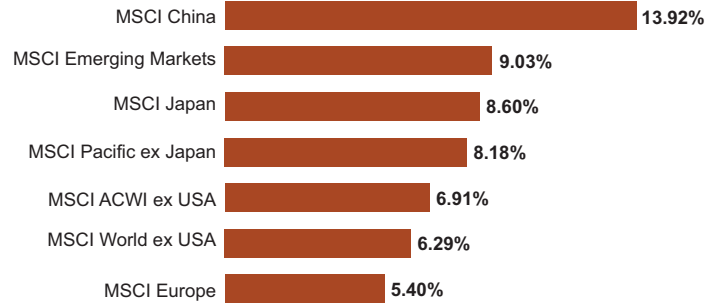
## Rolling One-year Relative Returns (vs. MSCI World ex USA)



Source: MSCI

## Regional Quarterly Performance

(U.S. Dollar)



Source: MSCI

## Callan Style Median and Index Returns\* for Periods ended September 30, 2016

Global Equity	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
<b>Global Equity Style</b>	<b>5.75</b>	<b>5.48</b>	<b>11.23</b>	<b>6.25</b>	<b>12.38</b>	<b>5.57</b>	<b>7.80</b>
MSCI World	4.87	5.55	11.36	5.85	11.63	4.47	6.29
MSCI ACWI	5.30	6.60	11.96	5.17	10.63	4.34	6.47
Non-U.S. Equity	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
<b>Non-U.S. Style</b>	<b>6.77</b>	<b>3.14</b>	<b>7.94</b>	<b>2.16</b>	<b>8.75</b>	<b>3.20</b>	<b>7.81</b>
MSCI World ex USA	6.29	3.12	7.16	0.33	6.89	1.88	5.96
MSCI ACWI ex USA	6.91	5.82	9.26	0.18	6.04	2.16	6.56
Regional Equity	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
MSCI China	13.92	8.58	12.95	3.90	8.24	7.78	13.08
MSCI Europe ex UK	6.03	-0.36	2.90	0.01	8.17	1.53	6.02
MSCI Japan	8.60	2.54	12.13	3.33	7.36	1.05	4.27
MSCI Japan (local)	7.20	-13.68	-5.19	4.42	13.38	-0.49	3.15
MSCI Pacific	8.46	5.26	14.74	2.31	7.31	2.50	6.08
MSCI Pacific (local)	6.97	-7.17	0.77	4.39	11.86	0.99	4.47
MSCI Pacific ex Japan	8.18	10.86	20.05	0.42	7.07	5.85	10.99
MSCI Pacific ex Japan (local)	6.52	7.03	13.34	4.95	10.29	5.31	8.55
MSCI United Kingdom	3.98	0.80	1.53	-1.80	5.99	1.40	5.02
MSCI United Kingdom (local)	7.00	14.37	18.39	5.68	9.91	5.15	5.89
Emerging/Frontier Markets	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
<b>Emerging Market Style</b>	<b>9.23</b>	<b>16.44</b>	<b>18.41</b>	<b>0.81</b>	<b>4.83</b>	<b>5.23</b>	<b>12.93</b>
MSCI Emerging Markets	9.03	16.02	16.78	-0.56	3.03	3.94	11.55
MSCI Emerging Markets (local)	7.59	11.30	12.96	4.33	6.95	5.94	11.97
MSCI Frontier Markets	2.65	2.16	0.91	-0.17	4.64	-0.26	-
Global/Non-U.S. Small Cap Equity	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
<b>Non-U.S. Small Cap Style</b>	<b>7.99</b>	<b>4.51</b>	<b>11.38</b>	<b>6.12</b>	<b>12.77</b>	<b>6.33</b>	<b>12.20</b>
MSCI World Small Cap	7.24	9.70	14.34	6.18	13.38	6.30	10.31
MSCI ACWI Small Cap	7.28	9.66	14.21	5.67	12.47	6.59	10.52
MSCI World ex USA Small Cap	8.00	7.26	13.50	4.15	9.72	4.11	9.97
MSCI ACWI ex USA Small Cap	7.91	7.70	13.38	3.52	8.60	4.58	10.47

\*Returns less than one year are not annualized.

Sources: Callan, MSCI.

# Hut, Hut ... Hike!

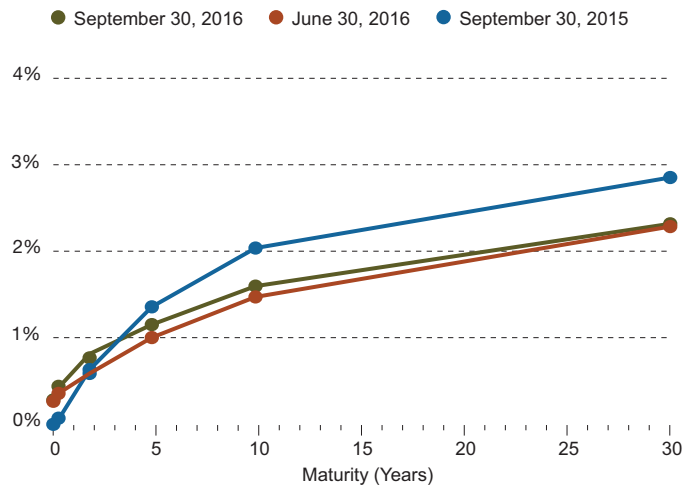
U.S. FIXED INCOME | Rufash Lama

For the quarter, the **Bloomberg Barclays High Yield Index** grew 5.55% while the **Bloomberg Barclays U.S. Aggregate Index** managed to rise a mere 0.46%.

Driven by Brexit-induced concerns, the yield on the benchmark 10-year Treasury note hit a record low of 1.37% in July; however, it rose for the remainder of the quarter and closed at 1.60%. While the Fed left the federal funds rate unchanged in the third quarter, its announcement was noteworthy because of the high level of disagreement; the three dissenting votes were the most since December 2014. Based on federal funds futures contracts, traders are betting there is a 78% chance of a rate hike at the next meeting in December after the Fed's decision to hold rates steady again in November.

Yields varied across the maturity spectrum during the quarter: While Treasury rates rose along the entire yield curve in August, the curve steepened in September as the 2-year fell by 4 basis points to 0.76% and the 30-year rose by 8 basis points to end at 2.32%. Intermediate Treasuries (-0.26%) outperformed long Treasuries (-0.36%) during the quarter.

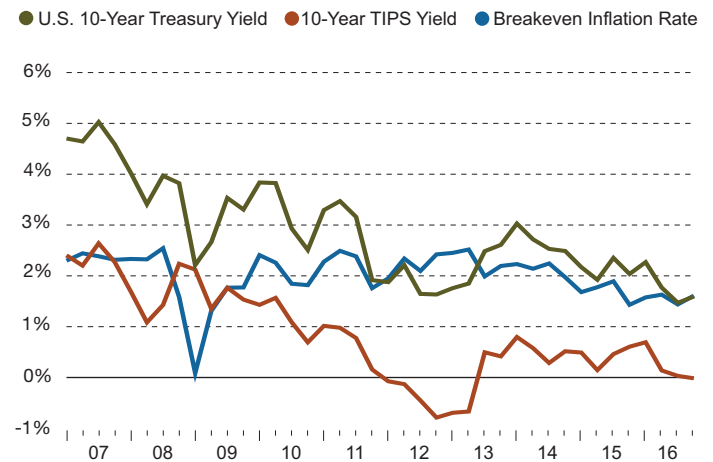
## U.S. Treasury Yield Curves



Source: Bloomberg

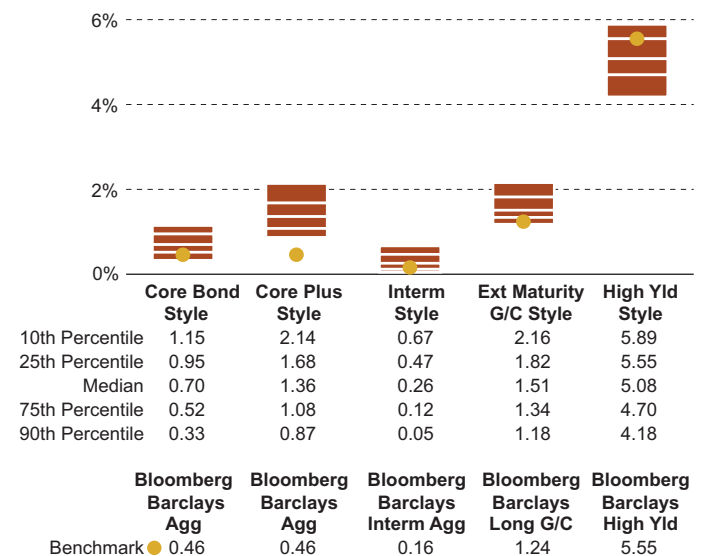
Credit spreads tightened during the quarter and yields inched toward historic lows. Their +5.55% return made high-yield corporates the strongest performer during the quarter. Despite record issuances in August, the credit sector gained 1.23% for the quarter and outperformed MBS (+0.60%) and CMBS (+0.59%). Industrials beat Utilities and Financials on a

## Historical 10-Year Yields



Source: Bloomberg

## Callan Style Group Quarterly Returns



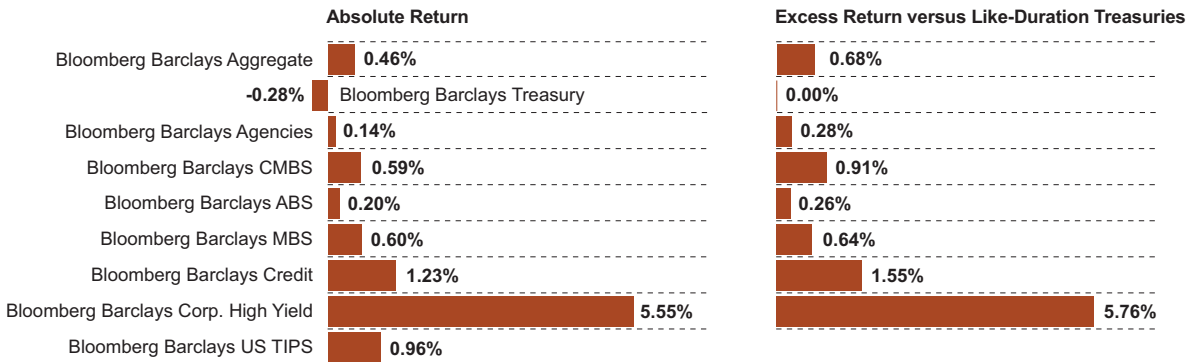
Source: Bloomberg Barclays, Callan

duration-adjusted basis. Further, on a duration-adjusted basis, credit securities outperformed Treasuries by 155 basis points. Treasuries ended the quarter in the red (-0.28%).

Investment-grade corporate issuance totaled \$340 billion for the quarter, setting a record. By the end of September,

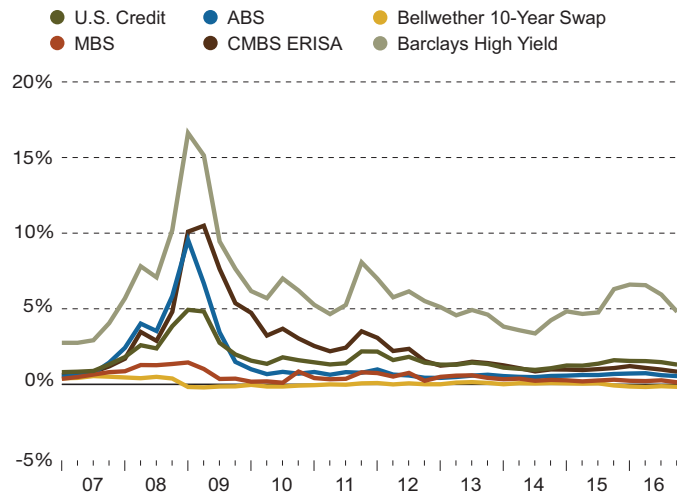
year-to-date corporate investment-grade bond issuance was 8% ahead of last year's pace. And the record supplies were met with strong demand as investors snapped up bonds. CMBS and municipal markets also demonstrated robust supply. And despite low yields and heavy issuance of CMBS securities in September, they outperformed Treasuries by 91 bps.

**Fixed Income Index Quarterly Returns**



Source: Bloomberg Barclays

**Effective Yield Over Treasuries**



Source: Bloomberg Barclays

**U.S. Fixed Income Index Characteristics as of Sept. 30, 2016**

Bloomberg Barclays Indices	Yield to Worst	Mod Adj Duration	Avg Maturity
Bloomberg Barclays Aggregate	1.96	5.51	7.82
Bloomberg Barclays Universal	2.39	5.39	7.68
Bloomberg Barclays Gov/Credit	1.92	6.72	8.99
1-3 Year	1.04	1.91	1.98
Intermediate	1.51	4.09	4.44
Long-Term	3.32	15.57	24.32
Bloomberg Barclays Long Credit	4.04	14.04	23.92
Bloomberg Barclays Corp High Yield	6.17	4.05	6.33
Bloomberg Barclays TIPS	1.62	6.59	8.61
Bloomberg Barclays Muni Bond 1-5 Year	1.15	2.72	3.22
Bloomberg Barclays Muni 1-10 Year	1.38	4.02	5.88
Bloomberg Barclays Municipal	1.82	5.52	13.08

Source: Bloomberg Barclays

## U.S. FIXED INCOME (Continued)

### Callan Style Median and Index Returns\* for Periods ended September 30, 2016

<b>Broad Fixed Income</b>	<b>Quarter</b>	<b>YTD</b>	<b>Year</b>	<b>3 Years</b>	<b>5 Years</b>	<b>10 Years</b>	<b>15 Years</b>
<b>Core Bond Style</b>	<b>0.70</b>	<b>6.15</b>	<b>5.65</b>	<b>4.36</b>	<b>3.73</b>	<b>5.31</b>	<b>5.25</b>
<b>Core Bond Plus Style</b>	<b>1.36</b>	<b>7.16</b>	<b>6.55</b>	<b>4.61</b>	<b>4.55</b>	<b>5.77</b>	<b>5.91</b>
Bloomberg Barclays Aggregate	0.46	5.80	5.19	4.03	3.08	4.79	4.80
Bloomberg Barclays Universal	0.96	6.69	6.11	4.27	3.62	5.00	5.12
<b>Long-Term</b>	<b>Quarter</b>	<b>YTD</b>	<b>Year</b>	<b>3 Years</b>	<b>5 Years</b>	<b>10 Years</b>	<b>15 Years</b>
<b>Extended Maturity Credit Style</b>	<b>2.50</b>	<b>17.00</b>	<b>16.11</b>	<b>10.05</b>	<b>7.94</b>	<b>8.07</b>	<b>-</b>
Bloomberg Barclays Long Credit	2.26	16.50	15.73	9.53	7.05	7.63	7.74
<b>Extended Maturity Gov/Credit Style</b>	<b>1.51</b>	<b>16.12</b>	<b>15.14</b>	<b>10.30</b>	<b>6.96</b>	<b>8.38</b>	<b>8.01</b>
Bloomberg Barclays Long Gov/Credit	1.24	15.74	14.66	10.08	6.32	7.84	7.61
<b>Intermediate-Term</b>	<b>Quarter</b>	<b>YTD</b>	<b>Year</b>	<b>3 Years</b>	<b>5 Years</b>	<b>10 Years</b>	<b>15 Years</b>
<b>Intermediate Style</b>	<b>0.26</b>	<b>4.31</b>	<b>3.83</b>	<b>3.05</b>	<b>2.85</b>	<b>4.62</b>	<b>4.62</b>
Bloomberg Barclays Interm Gov/Credit	0.16	4.24	3.52	2.80	2.45	4.17	4.22
<b>Short-Term</b>	<b>Quarter</b>	<b>YTD</b>	<b>Year</b>	<b>3 Years</b>	<b>5 Years</b>	<b>10 Years</b>	<b>15 Years</b>
<b>Defensive Style</b>	<b>0.15</b>	<b>1.94</b>	<b>1.72</b>	<b>1.47</b>	<b>1.48</b>	<b>2.89</b>	<b>3.01</b>
Bloomberg Barclays Gov/Credit 1-3 Yr	0.02	1.68	1.31	1.09	1.05	2.59	2.80
<b>Bank Loans</b>	<b>Quarter</b>	<b>YTD</b>	<b>Year</b>	<b>3 Years</b>	<b>5 Years</b>	<b>10 Years</b>	<b>15 Years</b>
<b>Bank Loan Style</b>	<b>2.86</b>	<b>7.43</b>	<b>5.70</b>	<b>3.78</b>	<b>5.55</b>	<b>4.91</b>	<b>5.03</b>
Credit Suisse Leveraged Loans	3.10	7.46	5.35	3.60	5.30	4.24	4.79
<b>High Yield</b>	<b>Quarter</b>	<b>YTD</b>	<b>Year</b>	<b>3 Years</b>	<b>5 Years</b>	<b>10 Years</b>	<b>15 Years</b>
<b>High Yield Style</b>	<b>5.08</b>	<b>12.70</b>	<b>10.86</b>	<b>5.20</b>	<b>8.28</b>	<b>7.64</b>	<b>8.61</b>
Bloomberg Barclays Corp High Yield	5.55	15.11	12.73	5.28	8.34	7.71	8.63
<b>Unconstrained</b>	<b>Quarter</b>	<b>YTD</b>	<b>Year</b>	<b>3 Years</b>	<b>5 Years</b>	<b>10 Years</b>	<b>15 Years</b>
<b>Unconstrained Fixed Style</b>	<b>2.21</b>	<b>3.95</b>	<b>4.56</b>	<b>2.36</b>	<b>3.87</b>	<b>4.60</b>	<b>6.44</b>
90 Day T-Bill + 3%	0.84	2.48	3.27	3.12	3.11	3.92	4.38
<b>Stable Value</b>	<b>Quarter</b>	<b>YTD</b>	<b>Year</b>	<b>3 Years</b>	<b>5 Years</b>	<b>10 Years</b>	<b>15 Years</b>
<b>Stable Value Style</b>	<b>0.48</b>	<b>1.42</b>	<b>1.88</b>	<b>1.76</b>	<b>1.94</b>	<b>2.85</b>	<b>3.58</b>
iMoneyNet Mutual Fund Avg	0.03	0.08	0.09	0.04	0.03	0.82	-
<b>TIPS</b>	<b>Quarter</b>	<b>YTD</b>	<b>Year</b>	<b>3 Years</b>	<b>5 Years</b>	<b>10 Years</b>	<b>15 Years</b>
<b>Inflation-Linked Style</b>	<b>1.00</b>	<b>7.28</b>	<b>6.62</b>	<b>2.40</b>	<b>1.96</b>	<b>4.58</b>	<b>5.50</b>
Bloomberg Barclays TIPS	0.96	7.27	6.58	2.40	1.93	4.48	5.39
<b>Municipal</b>	<b>Quarter</b>	<b>YTD</b>	<b>Year</b>	<b>3 Years</b>	<b>5 Years</b>	<b>10 Years</b>	<b>15 Years</b>
<b>Short Municipal Style</b>	<b>-0.04</b>	<b>0.75</b>	<b>0.82</b>	<b>0.83</b>	<b>0.94</b>	<b>1.81</b>	<b>1.96</b>
Bloomberg Barclays Municipal 1-5 Yr	-0.16	1.38	1.59	1.74	1.67	3.07	3.09
<b>Intermediate Municipal Style</b>	<b>-0.26</b>	<b>3.28</b>	<b>4.64</b>	<b>4.13</b>	<b>3.52</b>	<b>3.91</b>	<b>4.00</b>
Bloomberg Barclays Municipal 1-10 Yr	-0.11	2.58	3.40	3.34	2.95	4.04	4.02
<b>Long Municipal Style</b>	<b>-0.21</b>	<b>4.14</b>	<b>5.83</b>	<b>5.74</b>	<b>4.95</b>	<b>5.03</b>	<b>5.19</b>
Bloomberg Barclays Municipal	-0.30	4.01	5.58	5.54	4.48	4.75	4.89

\*Returns for less than one year are not annualized.

Sources: Bloomberg Barclays, Callan, Citigroup, Merrill Lynch



# Globe-Trotting for Yield

## NON-U.S. FIXED INCOME | Kyle Fekete

In an extraordinary effort to stimulate economic growth and inflation, the Bank of Japan introduced a 0% yield-target for 10-year bonds, aiming to exceed its 2% inflation objective. The central bank also intends to maintain its negative short rate stance in an effort to steepen the yield curve and thus help increase profitability for banks. The bank's governor termed the new policy a "reinforcement" of its quantitative easing (QE) program. Central banks have typically targeted short-term rates in QE programs, focusing on maturities of less than a year. Yield on Japan's 10-year government bond settled at -0.09% at the end of the quarter.

Overall, the European sovereign bond market was flat as the European Central Bank left interest rates unchanged. The

### Quarterly Returns for Non-U.S. Government Indices

Country	Country Debt (\$)	Country Debt	Local Currency	Weight*
Australia	3.60%	0.80%	2.77%	2.29%
Austria	1.81%	0.65%	1.16%	1.74%
Belgium	1.48%	0.32%	1.16%	2.93%
Canada	-0.67%	0.52%	-1.18%	2.32%
Denmark	0.96%	-0.10%	1.07%	0.82%
Finland	1.67%	0.51%	1.16%	0.67%
France	1.37%	0.21%	1.16%	11.72%
Germany	0.98%	-0.18%	1.16%	8.60%
Ireland	2.28%	1.11%	1.16%	0.95%
Italy	2.31%	1.14%	1.16%	11.07%
Japan	-0.92%	-2.19%	1.31%	34.89%
Malaysia	-0.66%	1.90%	-2.51%	0.53%
Mexico	-4.22%	0.47%	-4.67%	0.98%
Netherlands	1.29%	0.13%	1.16%	2.70%
Norway	3.53%	-1.12%	4.70%	0.30%
Poland	3.81%	0.30%	3.50%	0.71%
Singapore	0.22%	1.52%	-1.29%	0.45%
South Africa	10.29%	3.56%	6.50%	0.55%
Spain	3.39%	2.21%	1.16%	6.45%
Sweden	-0.63%	0.48%	-1.11%	0.52%
Switzerland	-0.08%	-0.57%	0.50%	0.27%
U.K.	-0.37%	2.52%	-2.83%	8.54%

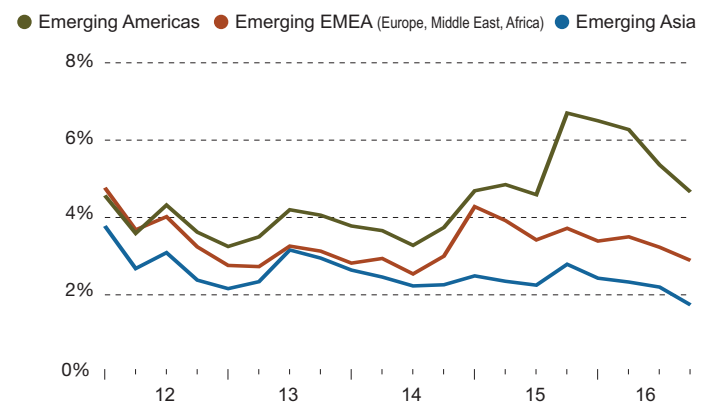
\*Weight in the Citi Non-U.S. World Government Bond Index. Source: Citigroup

**Bloomberg Barclays Global Aggregate Index** rose 0.82% (+0.53% hedged). The ECB committed to a monthly QE program of buying €80 billion in government bonds, asset-backed securities, and corporate debt through March 2017; however, President Mario Draghi announced a review of the program to ensure investable assets would not dry up. Yield on the German 10-year bund notched up a basis point to -0.12%. There is now over \$12 trillion of negative-yielding debt globally, with Japan accounting for nearly half and Western Europe—namely France, Germany, and the Netherlands—the other half. Investors' sustained hunt for yield was evident in European bond pricing as periphery government Treasuries tended to decline more than their core eurozone counterparts. The Spanish and Italian 10-year yields declined 28 bps and 7 bps to 0.88% and 1.91%, respectively. The euro increased 1.16% against the U.S. dollar.

Despite the economic and political uncertainty the Brexit vote left in its wake, when U.K. voters chose to leave the European Union and the British pound plummeted 2.83%, data released showed no immediate negative effect on confidence or productivity. Yield on the 10-year gilt fell 12 bps to +0.75%.

The developing markets advanced for the fourth straight quarter in spite of multiple political headwinds, including the

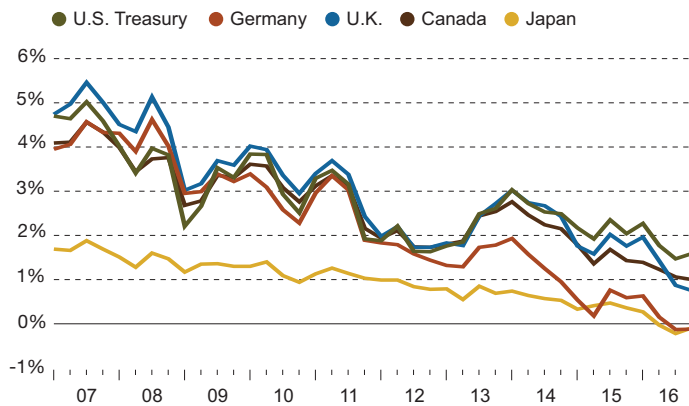
### Emerging Spreads Over Developed (By Region)



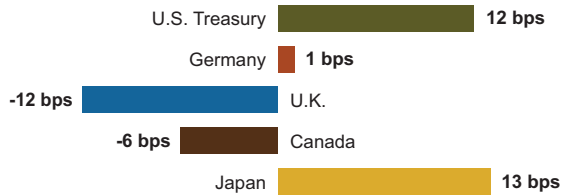
Source: Bloomberg Barclays

## NON-U.S. FIXED INCOME (Continued)

### 10-Year Global Government Bond Yields



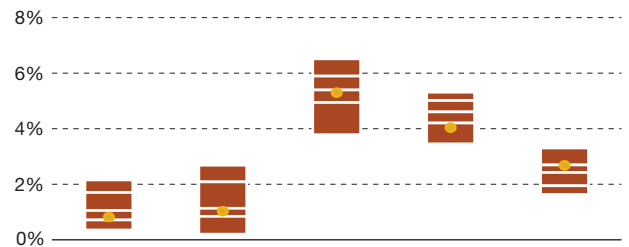
### Change in 10-Year Yields from 2Q16 to 3Q16



Source: Bloomberg

impeachment of Brazil's president and the failed Turkish coup. The hard currency **J.P. Morgan EMBI Global Index** climbed 4.04%. Local currency debt, as measured by the **J.P. Morgan GBI-EM Global Diversified Index**, ticked up 2.68%.

### Callan Style Group Quarterly Returns



	Global Fixed Style	Non-U.S. Fixed Style	Global High Yld Style	Em Debt Style (US\$)	Em Debt Style (local)
10th Percentile	2.18	2.71	6.54	5.34	3.33
25th Percentile	1.73	2.11	5.92	5.04	2.72
Median	1.08	1.16	5.42	4.63	2.45
75th Percentile	0.74	0.87	4.97	4.23	1.97
90th Percentile	0.38	0.23	3.81	3.48	1.66
Barclays GI Agg Benchmark	0.82				
Barclays GI Agg ex US		1.03			
Barclays High Yld			5.3		
JPM EMBI GI Div				4.04	
JPM GBI-EM GI Div					2.68

Sources: Bloomberg Barclays, Callan, JPMorgan Chase

### Callan Style Median and Index Returns\* for Periods ended September 30, 2016

Global Fixed Income	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
<b>Global Fixed Income Style</b>	<b>1.08</b>	<b>9.70</b>	<b>8.88</b>	<b>2.39</b>	<b>2.15</b>	<b>4.91</b>	<b>6.14</b>
Bloomberg Barclays Global Aggregate	0.82	9.85	8.83	2.13	1.74	4.26	5.13
<b>Global Fixed Income Style (hedged)</b>	<b>1.05</b>	<b>6.96</b>	<b>7.26</b>	<b>5.52</b>	<b>4.95</b>	<b>5.44</b>	<b>5.64</b>
Bloomberg Barclays Global Aggregate (hedged)	0.53	6.44	6.54	5.05	4.26	4.73	4.73
High Yield	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
<b>Global High Yield Style</b>	<b>5.42</b>	<b>13.65</b>	<b>12.46</b>	<b>3.91</b>	<b>7.61</b>	<b>7.03</b>	<b>9.74</b>
Bloomberg Barclays Global High Yield	5.30	14.49	13.51	4.97	8.56	7.87	9.43
Non-U.S. Fixed Income	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
<b>Non-U.S. Fixed Income Style</b>	<b>1.16</b>	<b>12.95</b>	<b>11.41</b>	<b>1.52</b>	<b>2.01</b>	<b>4.48</b>	<b>6.26</b>
Bloomberg Barclays Global Aggregate ex US	1.03	13.09	11.67	0.75	0.70	3.82	5.41
Emerging Markets Fixed Income	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
<b>Emerging Debt Style (US\$)</b>	<b>4.63</b>	<b>16.27</b>	<b>18.15</b>	<b>7.02</b>	<b>7.81</b>	<b>8.13</b>	<b>11.06</b>
JPM EMBI Global Diversified	4.04	14.77	16.20	8.20	7.76	7.73	9.57
<b>Emerging Debt Style (local)</b>	<b>2.45</b>	<b>16.95</b>	<b>16.83</b>	<b>-2.14</b>	<b>0.22</b>	<b>5.21</b>	<b>7.25</b>
JPM GBI-EM Global Diversified	2.68	17.07	17.06	-2.58	0.06	5.52	-
<b>Emerging Debt Blend Style</b>	<b>3.59</b>	<b>15.14</b>	<b>16.15</b>	<b>2.13</b>	<b>3.94</b>	<b>8.07</b>	<b>12.69</b>
JPM EMBI GI Div/JPM GBI-EM GI Div	3.36	16.11	16.83	2.81	3.95	6.72	-
<b>Emerging Debt Corporate Style</b>	<b>3.59</b>	<b>12.81</b>	<b>13.05</b>	<b>6.55</b>	<b>8.08</b>	-	-
JPM CEMBI	3.25	12.57	13.34	6.38	7.31	7.16	-

\*Returns less than one year are not annualized.

Sources: Bloomberg Barclays, Callan, JPMorgan

# Returns Take a Summer Vacation

REAL ESTATE | Kevin Nagy

The **NCREIF Property Index\*** gained 1.77% during the second quarter (1.16% from income and 0.60% from appreciation), its worst performance since the first quarter of 2010. In addition, appreciation fell for the sixth consecutive quarter.

In a repeat of the second quarter, Industrial (+2.89%) and Retail (+1.98%) topped property sector performance, and Office (+1.26%) and Hotels (+1.35%) were the worst performers again. The West region led the way (+2.19%) while the Midwest (+1.46%) was the weakest. Transaction volume was \$9.6 billion, a 7% increase over the previous quarter and a 20% increase over the same period in 2015. Appraisal capitalization rates fell to 4.48%, an all-time low. The spread between appraisal capitalization rates and transaction capitalization rates widened to 180 basis points, the largest since the third quarter of 2009.

Occupancy rates continued to climb, setting a new 15-year high at 93.22%. Retail and Apartment occupancy rates fell slightly; Industrial and Office rates increased. Apartments were the only property type to experience a drop year-to-date.

The preliminary return for the **NCREIF Open End Diversified Core Equity Index\*** was 1.83%; 0.90% of that was income and 0.94% from appreciation. This surpassed last quarter as the lowest since the first quarter of 2010. Income returns stayed in line with past quarters, but appreciation reached its lowest level since the first quarter of 2010. Low long-term interest rates have been a strong tailwind for U.S. real estate performance in recent quarters, but expectations of a Fed rate increase have sucked the wind from its sails.

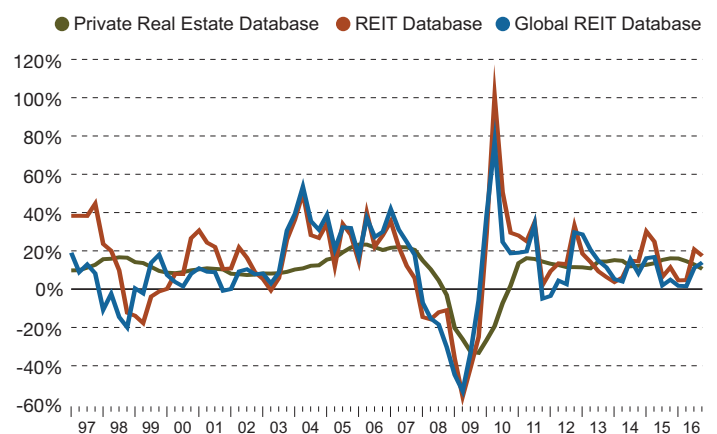
Global real estate investment trusts (REITs), tracked by the **FTSE EPRA/NAREIT Developed REIT Index (USD)**, outperformed their U.S. counterparts and posted a 1.46% return. U.S. REITs, as measured by the **FTSE NAREIT Equity REITs Index**, lost 1.43% for the quarter.

\*Index subreturns are calculated separately from index return and may not total.

In the U.S., REITs started the quarter strong, riding the post-Brexit bounce that followed the U.K.'s surprise vote to leave the European Union. The gains would not last, however, as mixed economic data fueled concerns of a Federal Reserve rate increase. Timber (+7.72%), Industrial (+6.67%), and Office (+3.24%) were the strongest-performing sectors for the quarter. Specialty (-9.93%), Data Centers (-9.02%), and Retail (-2.62%) were some of the laggards. Self-storage (-12.20%) struggled for the second straight quarter and was the worst performing sector. Investors appeared to be shifting money into more economically sensitive U.S. stocks, which generally performed well on the back of modest long-term yield increases. Anticipation of a Fed rate hike also prompted some investors to sell out of crowded defensive positions such as REITs into more cyclical stocks. As of September 30, U.S. REITs were trading at a 12.3% premium to net asset value, more than a 500 basis point increase over the previous quarter.

As the dust settles from the initial shock of Brexit, the impact on U.K. real estate is beginning to be apparent. Transaction evidence shows City of London and West End offices were the most affected due to uncertainty about the city's future as a financial hub. Industrial assets were the least affected. Outside of the U.K., the Nordic countries were the strongest performers.

## Rolling One-Year Returns



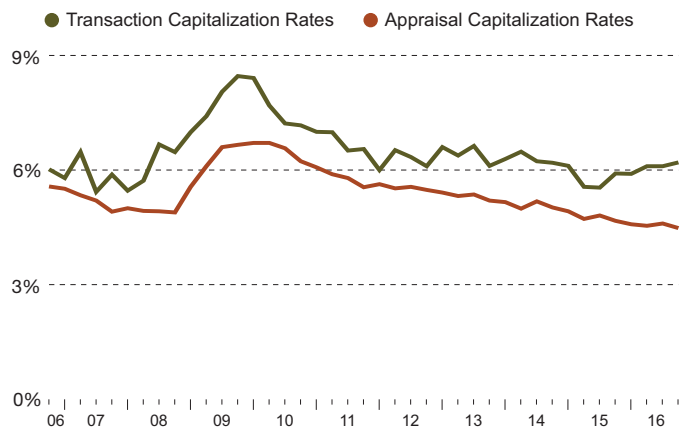
Source: Callan

## REAL ESTATE (Continued)

Signs that the economies of Norway and Finland may finally be on the cusp of growth have led to record levels of investment and increases in property value. France also performed well as the economy recovered from a sluggish second quarter and employment growth propelled office returns upward.

Collateralized mortgage-backed securities (CMBS) issuance for the quarter was \$19.5 billion, a huge jump from the \$12.1 billion in the second quarter. While issuance was up quarter-over-quarter, it was still down compared to the third quarter of 2015 (\$25.3 billion).

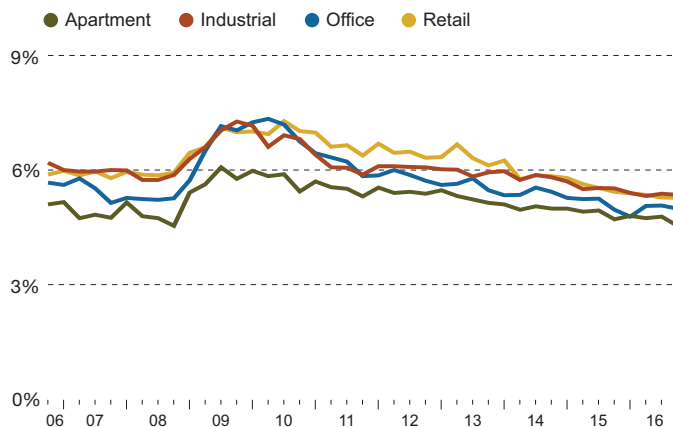
### NCREIF Transaction and Appraisal Capitalization Rates



Source: NCREIF

Note: Transaction capitalization rate is equal weighted.

### NCREIF Capitalization Rates by Property Type



Source: NCREIF

Note: Capitalization rates are appraisal-based.

### Callan Database Median and Index Returns\* for Periods ended September 30, 2016

Private Real Estate	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
<b>Real Estate Database (net of fees)</b>	<b>1.62</b>	<b>5.85</b>	<b>9.34</b>	<b>11.64</b>	<b>11.74</b>	<b>4.58</b>	<b>7.33</b>
NCREIF Property	1.77	6.13	9.22	11.31	11.18	7.22	8.93
NFI-ODCE (value wtd. net)	1.83	5.80	9.08	11.42	11.34	5.05	7.03
Public Real Estate	Quarter	YTD	Year	3 years	5 Years	10 Years	15 Years
<b>REIT Database</b>	<b>-1.15</b>	<b>9.61</b>	<b>17.67</b>	<b>14.49</b>	<b>16.28</b>	<b>7.05</b>	<b>12.57</b>
FTSE NAREIT Equity	-1.43	11.75	19.86	14.22	15.91	6.35	11.38
Global Public Real Estate	Quarter	YTD	Year	3 years	5 Years	10 Years	15 Years
<b>Global REIT Database</b>	<b>1.36</b>	<b>9.06</b>	<b>13.66</b>	<b>9.14</b>	<b>13.77</b>	<b>4.73</b>	<b>10.87</b>
FTSE EPRA/NAREIT Developed REIT	1.46	10.97	15.85	8.60	13.17	4.16	10.67
Global ex U.S. Public Real Estate	Quarter	YTD	Year	3 years	5 Years	10 Years	15 Years
<b>Global ex-U.S. REIT Database</b>	<b>4.51</b>	<b>7.75</b>	<b>8.49</b>	<b>2.98</b>	<b>11.00</b>	<b>2.41</b>	<b>-</b>
EPRA/NAREIT Dev REITs ex-U.S.	4.28	10.44	11.66	3.21	10.42	2.57	10.59

\*Returns for less than one year are not annualized.

All REIT returns are reported gross in USD.

Sources: Callan, NAREIT, NCREIF, The FTSE Group. NCREIF statistics are the product of direct queries and may fluctuate over time.

# Sticker Shock

PRIVATE EQUITY | Gary Robertson

Third-quarter fundraising commitments totaled \$38.6 billion with 143 new partnerships formed, Private Equity Analyst reported. The number of new funds dropped by 27% from 196 in the second quarter, and dollar volume plummeted 62% from \$102.2 billion. But this year is tracking closely to 2015, trailing by only \$3 billion (1%) in commitments and 41 (6%) in new partnerships.

The investment pace by funds into companies maintained momentum, according to Buyouts newsletter, totaling 385 transactions, up 8% from 356 in the second quarter but down 5% from 406 a year ago. The announced aggregate dollar volume was \$39 billion, up 4% from \$37.6 billion in the second quarter and up significantly from the \$11.6 billion a year ago. Just eight deals with announced values of \$1 billion or more closed in the quarter, but that was up from six in the second quarter.

New investments in venture capital companies totaled 1,796 rounds and \$15 billion of announced volume, according to the National Venture Capital Association. The number of rounds decreased 11% from 2,026 in the second quarter, and the dollar volume dropped 32% from \$22.1 billion.

Regarding exits, Buyouts reports there were 142 private M&A exits of buyout-backed companies, with 38 deals disclosing

## Funds Closed January 1 to September 30, 2016

Strategy	No. of Funds	Amt (\$mm)	Percent
Venture Capital	274	32,312	17%
Buyouts	171	122,487	63%
Subordinated Debt	11	3,220	2%
Distressed Debt	17	17,250	9%
Secondary and Other	15	12,284	6%
Fund-of-funds	28	6,451	3%
<b>Totals</b>	<b>516</b>	<b>194,004</b>	<b>100%</b>

Source: Private Equity Analyst

values totaling \$27.5 billion. The M&A exits count was up 20% from 118 in the second quarter, and the announced value increased 12% from \$24.6 billion. There were two buyout-backed IPOs floating an aggregate \$551.6 million, down from three floating \$1.6 billion in the second quarter.

Venture-backed M&A exits totaled 192 transactions, with a disclosed dollar volume of \$13.4 billion. The number of private sale exits increased 19% from 161 in the second quarter, but the announced dollar volume declined 17% from the second quarter's \$16.1 billion. There were 14 VC-backed IPOs in the third quarter with a combined float of \$1 billion. For comparison, the second quarter of 2016 had 13 IPOs and total issuance of \$876.1 million.

## Private Equity Performance Database (%)

(Pooled Horizon IRRs through March 31, 2016\*)

Strategy	3 Months	Year	3 Years	5 Years	10 Years	15 Years	20 Years
All Venture	-2.4	6.6	20.6	15.0	10.4	5.3	23.2
Growth Equity	-0.1	6.0	12.7	10.5	11.1	10.3	13.9
All Buyouts	2.1	9.7	12.8	11.5	10.9	12.3	12.7
Mezzanine	3.0	8.0	9.3	10.2	9.6	8.5	9.4
Distressed	0.6	0.4	7.8	8.3	9.3	10.6	10.6
<b>All Private Equity</b>	<b>0.8</b>	<b>7.5</b>	<b>13.3</b>	<b>11.5</b>	<b>10.6</b>	<b>10.2</b>	<b>13.5</b>
S&P 500	1.4	1.8	11.8	11.6	7.0	6.0	8.0
Russell 3000	1.0	-0.3	11.2	11.0	6.9	6.4	8.0

Private equity returns are net of fees.

Sources: Standard & Poor's, Thomson/Cambridge

\*Most recent data available at time of publication.

Note: Transaction count and dollar volume figures across all private equity measures are preliminary figures and are subject to update in subsequent versions of *Capital Market Review* and other Callan publications.

# Can't Stop the Feeling

HEDGE FUNDS | Jim McKee

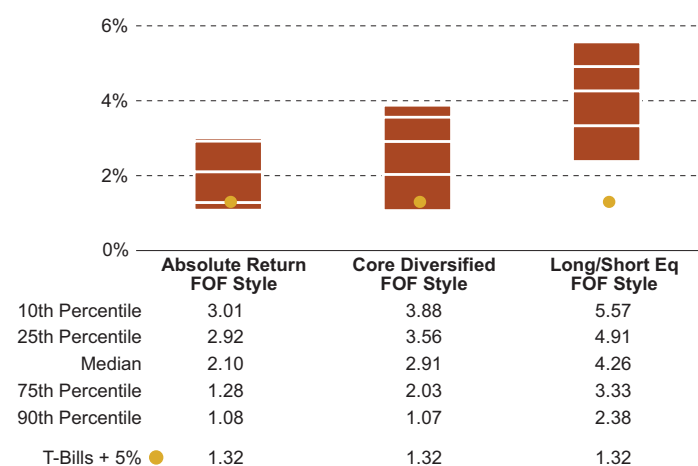
Despite the somber mood spurred by the Brexit vote closing out the prior quarter, capital markets got back on the dance floor in the third quarter. Central bankers let it be known that their music of easy money policies would not stop. **MSCI Emerging Markets** (+9.03%) led the beat upward, but the **S&P 500** (+3.85%) hit another record high. Higher income continued to be alluring as the **Bloomberg Barclays Corporate High Yield Index** jumped 5.55%.

Highlighting raw hedge fund performance without implementation costs, the **Credit Suisse Hedge Fund Index** (CS HFI) rose 1.74% in the third quarter. As a benchmark of actual hedge fund portfolios, the median manager in the **Callan Hedge Fund-of-Funds Database** advanced 2.92%, net of all fees.

Within CS HFI, the best-performing strategy last quarter was *Emerging Markets* (+4.20%), supported by strong debt and equity markets amid growing economies. Tightening credit spreads and improving fundamentals supported *Convertible Arb* (+3.83%), *Event-Driven Multi-Strategy* (+3.06%), and *Distressed* (+2.75%). Aided by strong equity tailwinds, *Long/Short Equity* gained 1.88%. Choppy markets caught the trend-following crowds of *Managed Futures* (-3.23%) a bit flat-footed.

Within Callan's Hedge Fund-of-Funds Database, the median *Callan Long/Short Equity FOF* (+4.26%) outpaced the *Callan Absolute Return FOF* (+2.10%). With diversifying exposures to both non-directional and directional styles, the *Core Diversified FOF* gained 2.91%.

## Callan Style Group Quarterly Returns



Sources: Callan, Merrill Lynch

## Callan Database Median and Index Returns\* for Periods ended September 30, 2016

	Quarter	YTD	Year	3 Years	5 Years	10 Years	15 Years
<b>Hedge Fund-of-Funds Database</b>	<b>2.92</b>	<b>0.19</b>	<b>0.55</b>	<b>2.64</b>	<b>5.03</b>	<b>3.70</b>	<b>4.84</b>
CS Hedge Fund Index	1.74	0.09	-0.03	2.53	4.25	4.21	5.81
CS Equity Market Neutral	1.59	-1.98	-2.02	1.17	2.12	-2.45	0.75
CS Convertible Arbitrage	3.83	6.16	5.54	2.14	4.01	3.98	4.55
CS Fixed Income Arbitrage	2.61	2.39	2.42	2.88	4.59	3.50	4.23
CS Multi-Strategy	2.55	3.21	3.74	5.86	7.33	5.66	6.79
CS Distressed	2.75	2.71	0.91	1.59	5.43	4.20	7.02
CS Risk Arbitrage	2.30	5.08	5.93	1.71	2.61	3.59	3.71
CS Event-Driven Multi-Strategy	3.06	-0.51	-3.04	-0.56	3.71	4.11	6.13
CS Long/Short Equity	1.88	-3.23	-1.70	3.99	6.56	4.76	6.12
CS Dedicated Short Bias	-12.06	-18.35	-21.86	-8.80	-15.43	-10.95	-9.05
CS Global Macro	0.58	-0.97	-0.36	1.68	2.34	5.75	7.98
CS Managed Futures	-3.23	-1.26	-2.30	6.80	0.98	4.09	4.93
CS Emerging Markets	4.20	4.74	7.67	3.48	4.99	4.62	8.76

\*Returns less than one year are not annualized. Sources: Callan, Credit Suisse.

# DC Participants Seek Cover

DEFINED CONTRIBUTION | Tom Szkwarla

DC plan balances increased a solid 1.67% in the second quarter, according to the Callan DC Index™. But participants sought cover, shifting money from equities into fixed income and stable value. This is atypical behavior. Generally, DC plan participants tend to follow the market, heading to equities when the stock market rises.

Turnover—or net transfer activity levels—has also been below average this year, coming in at 0.55% in the second quarter and 0.45% in the first. Historical turnover since inception is 0.65% for the Index.

Although the Index rose smartly for the quarter—gaining 1.90%—target date funds still managed to marginally outpace the typical DC investor, gaining 2.02%. Since inception, the DC Index has trailed the Age 45 Target Date Fund by 70 basis points annually, averaging a 5.15% annual return.

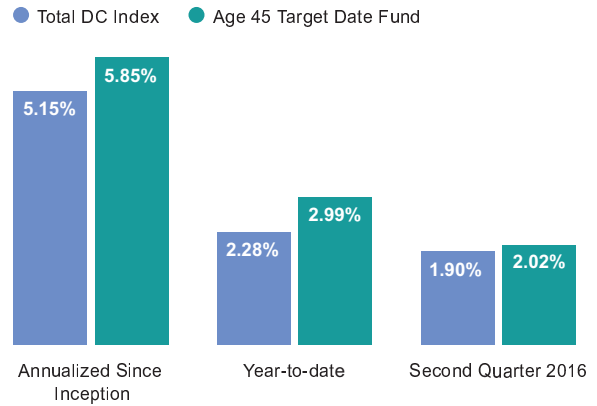
Money flowed out of DC plans during the quarter to the tune of 23 basis points. Historically, inflows (participant and plan sponsor contributions) have accounted for approximately 30% of total growth in plan balances (2.24% annualized). Altogether, participant balances have increased 7.39% annually since inception of the Index.

The DC Index’s allocation to target date funds continued to increase in the quarter, reaching 26.9% of total DC assets. Meanwhile, U.S. large cap equity dropped to its lowest allocation since the fourth quarter of 2011.

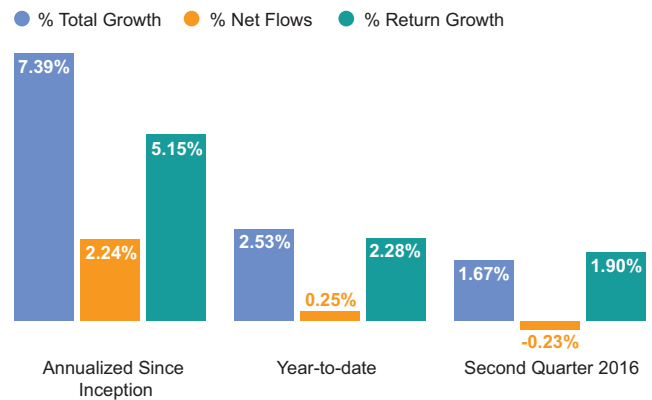
Target date funds are the fifth most prevalent asset class in DC plans (89% offer them), and when offered attract the lion’s share of assets, at 31% on average.

*The Callan DC Index is an equally weighted index tracking the cash flows and performance of nearly 90 plans, representing more than one million DC participants and over \$135 billion in assets. The Index is updated quarterly and is available on Callan’s website, as is the quarterly DC Observer newsletter.*

## Investment Performance\*



## Growth Sources\*



## Net Cash Flow Analysis (Second Quarter 2016) (Top Two and Bottom Two Asset Gatherers)

Asset Class	Flows as % of Total Net Flows
Target Date Funds	47.68%
U.S. Fixed	22.94%
Company Stock	-22.66%
U.S. Large Cap	-39.59%
<b>Total Turnover**</b>	<b>0.55%</b>

Source: Callan DC Index  
Data provided here is the most recent available at time of publication.

\* DC Index inception date is January 2006.

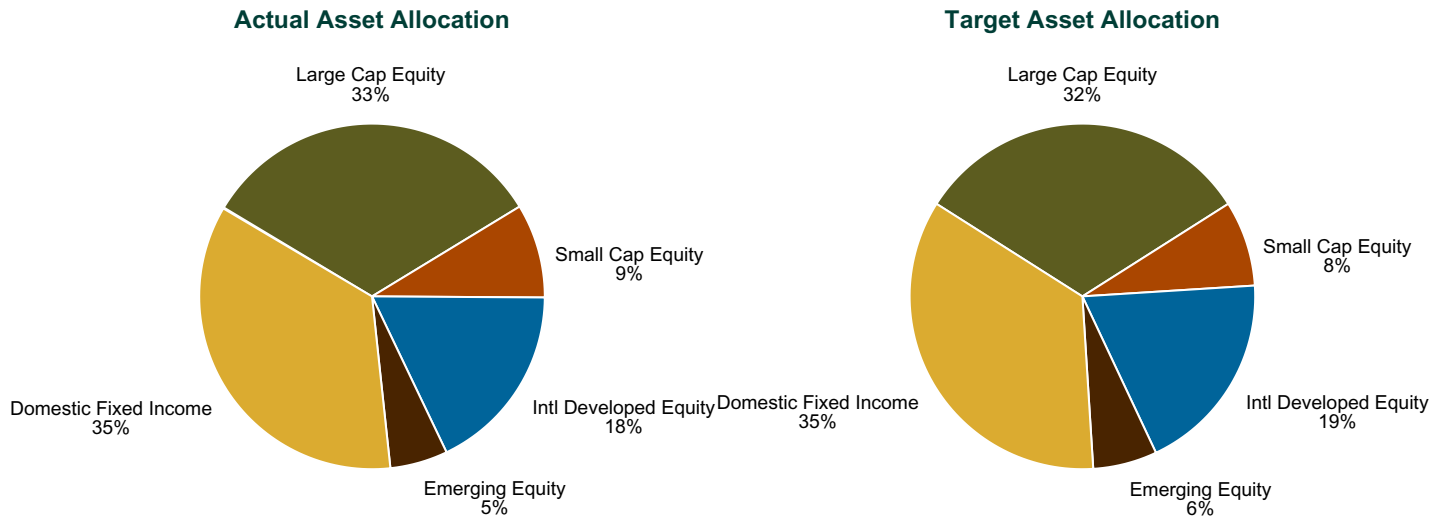
\*\* Total Index “turnover” measures the percentage of total invested assets (transfers only, excluding contributions and withdrawals) that moved between asset classes.





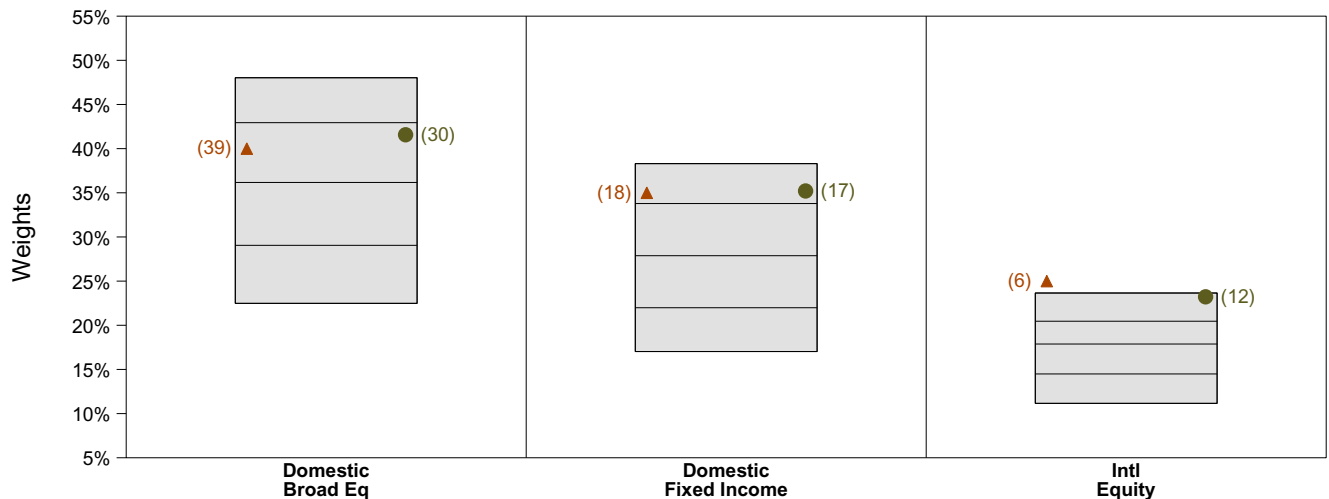
## Actual vs Target Asset Allocation As of September 30, 2016

The top left chart shows the Fund's asset allocation as of September 30, 2016. The top right chart shows the Fund's target asset allocation as outlined in the investment policy statement. The bottom chart ranks the fund's asset allocation and the target allocation versus the CAI Public Fund Sponsor - Mid (100M-1B).



Asset Class	\$000s Actual	Weight Actual	Target	Percent Difference	\$000s Difference
Large Cap Equity	82,347	32.7%	32.0%	0.7%	1,824
Small Cap Equity	22,260	8.8%	8.0%	0.8%	2,129
Intl Developed Equity	44,758	17.8%	19.0%	(1.2%)	(3,053)
Emerging Equity	13,679	5.4%	6.0%	(0.6%)	(1,419)
Domestic Fixed Income	88,591	35.2%	35.0%	0.2%	518
<b>Total</b>	<b>251,635</b>	<b>100.0%</b>	<b>100.0%</b>		

### Asset Class Weights vs CAI Public Fund Sponsor - Mid (100M-1B)



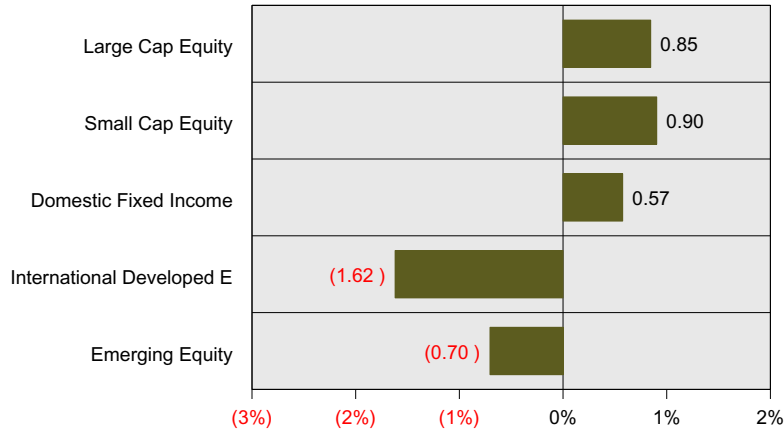
	Domestic Broad Eq	Domestic Fixed Income	Intl Equity
10th Percentile	48.03	38.30	23.65
25th Percentile	42.94	33.78	20.46
Median	36.17	27.88	17.88
75th Percentile	29.05	21.99	14.49
90th Percentile	22.48	17.03	11.16
<b>Fund</b> ●	41.57	35.21	23.22
<b>Target</b> ▲	40.00	35.00	25.00
% Group Invested	96.97%	98.48%	92.42%

\* Current Quarter Target = 35.0% BB Barclays Aggregate Idx, 32.0% S&P 500 Index, 19.0% MSCI EAFE, 8.0% Russell 2000 Index and 6.0% MSCI EM Gross.

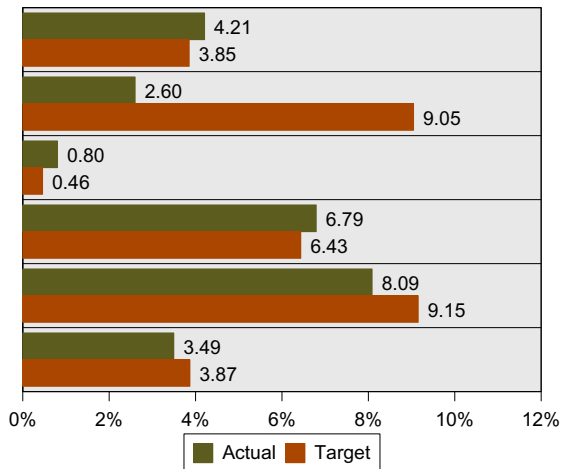
## Quarterly Total Fund Relative Attribution - September 30, 2016

The following analysis approaches Total Fund Attribution from the perspective of relative return. Relative return attribution separates and quantifies the sources of total fund excess return relative to its target. This excess return is separated into two relative attribution effects: Asset Allocation Effect and Manager Selection Effect. The Asset Allocation Effect represents the excess return due to the actual total fund asset allocation differing from the target asset allocation. Manager Selection Effect represents the total fund impact of the individual managers excess returns relative to their benchmarks.

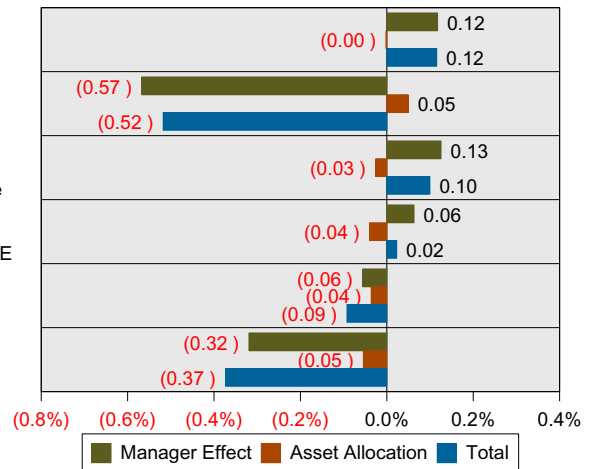
### Asset Class Under or Overweighting



### Actual vs Target Returns



### Relative Attribution by Asset Class



### Relative Attribution Effects for Quarter ended September 30, 2016

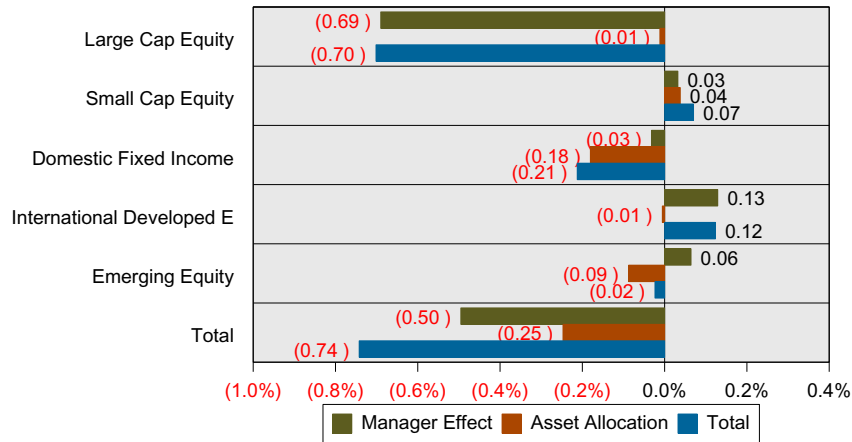
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap Equity	33%	32%	4.21%	3.85%	0.12%	(0.00%)	0.12%
Small Cap Equity	9%	8%	2.60%	9.05%	(0.57%)	0.05%	(0.52%)
Domestic Fixed Income	36%	35%	0.80%	0.46%	0.13%	(0.03%)	0.10%
International Developed	17%	19%	6.79%	6.43%	0.06%	(0.04%)	0.02%
Emerging Equity	5%	6%	8.09%	9.15%	(0.06%)	(0.04%)	(0.09%)
<b>Total</b>			<b>3.49%</b>	<b>3.87%</b>	<b>(0.32%)</b>	<b>(0.05%)</b>	<b>(0.37%)</b>

\* Current Quarter Target = 35.0% BB Barclays Aggregate Idx, 32.0% S&P 500 Index, 19.0% MSCI EAFE, 8.0% Russell 2000 Index and 6.0% MSCI EM Gross.

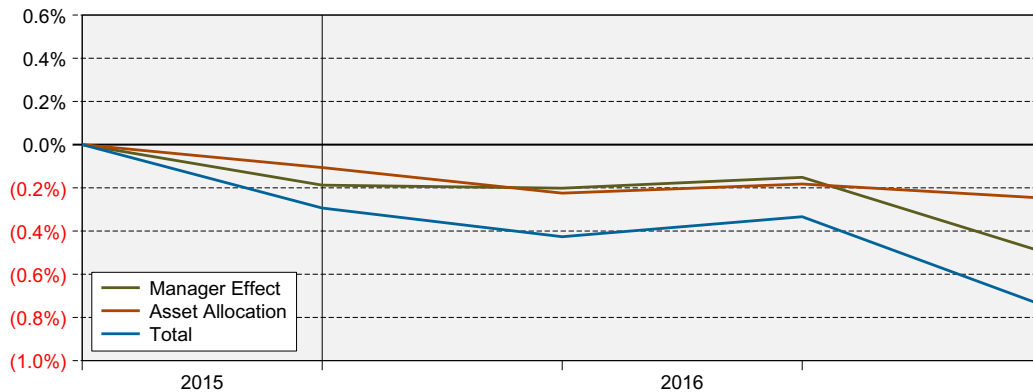
## Cumulative Total Fund Relative Attribution - September 30, 2016

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

### One Year Relative Attribution Effects



### Cumulative Relative Attribution Effects



### One Year Relative Attribution Effects

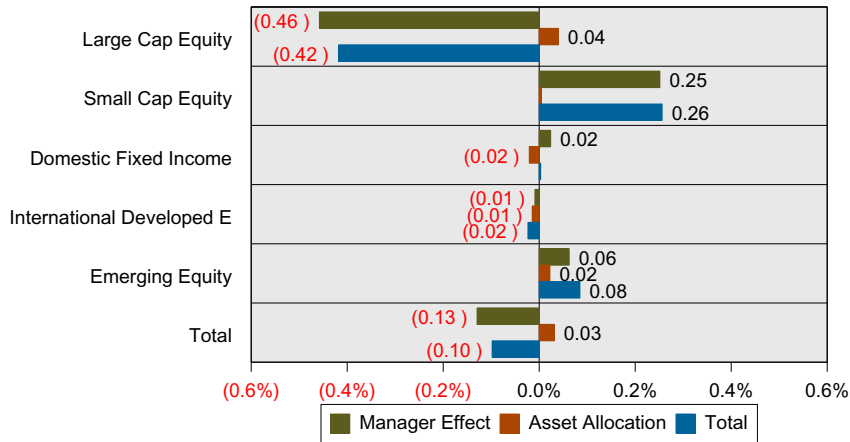
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap Equity	33%	32%	13.23%	15.43%	(0.69%)	(0.01%)	(0.70%)
Small Cap Equity	9%	8%	16.33%	15.47%	0.03%	0.04%	0.07%
Domestic Fixed Income	36%	35%	5.14%	5.19%	(0.03%)	(0.18%)	(0.21%)
International Developed E	18%	19%	7.23%	6.52%	0.13%	(0.01%)	0.12%
Emerging Equity	5%	6%	18.81%	17.21%	0.06%	(0.09%)	(0.02%)
<b>Total</b>			<b>9.72%</b>	<b>10.46%</b>	<b>+ (0.50%)</b>	<b>(0.25%)</b>	<b>(0.74%)</b>

\* Current Quarter Target = 35.0% BB Barclays Aggregate Idx, 32.0% S&P 500 Index, 19.0% MSCI EAFE, 8.0% Russell 2000 Index and 6.0% MSCI EM Gross.

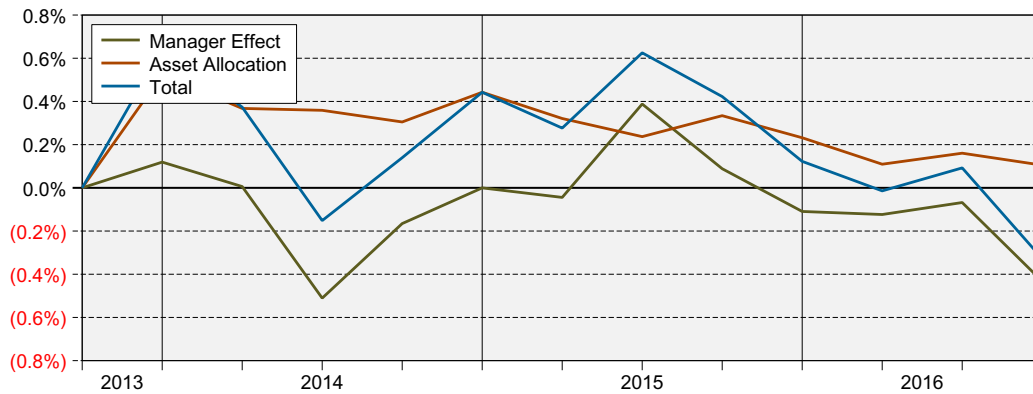
## Cumulative Total Fund Relative Attribution - September 30, 2016

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

### Three Year Annualized Relative Attribution Effects



### Cumulative Relative Attribution Effects



### Three Year Annualized Relative Attribution Effects

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap Equity	32%	31%	9.66%	11.16%	(0.46%)	0.04%	(0.42%)
Small Cap Equity	8%	7%	10.11%	6.71%	0.25%	0.00%	0.26%
Domestic Fixed Income	37%	38%	4.10%	4.03%	0.02%	(0.02%)	0.00%
International Developed E	18%	18%	0.46%	0.48%	(0.01%)	(0.01%)	(0.02%)
Emerging Equity	5%	5%	1.13%	(0.21%)	0.06%	0.02%	0.08%
<b>Total</b>			<b>5.50%</b>	<b>5.59%</b>	<b>(0.13%)</b>	<b>0.03%</b>	<b>(0.10%)</b>

\* Current Quarter Target = 35.0% BB Barclays Aggregate Idx, 32.0% S&P 500 Index, 19.0% MSCI EAFE, 8.0% Russell 2000 Index and 6.0% MSCI EM Gross.

# Total Fund

## Period Ended September 30, 2016

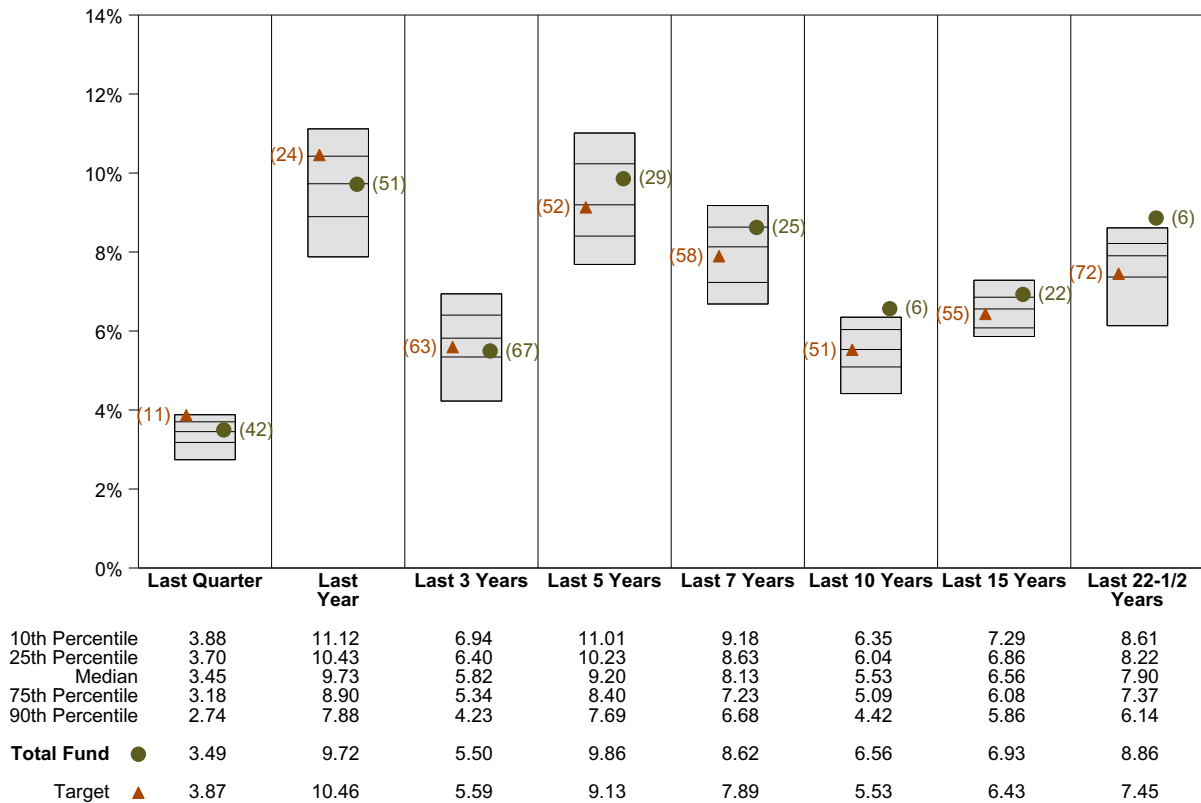
### Investment Philosophy

\* Current Quarter Target = 35.0% Barclays Aggregate Index, 32.0% S&P 500 Index, 19.0% MSCI EAFE Index, 8.0% Russell 2000 Index and 6.0% MSCI Emerging Mkts Idx.

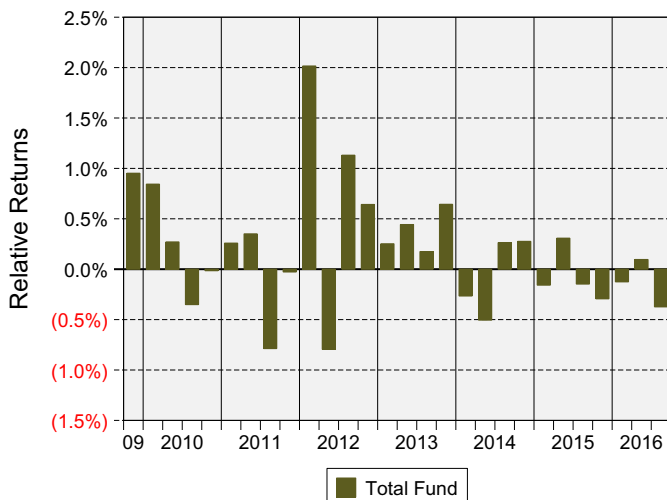
### Quarterly Summary and Highlights

- Total Fund's portfolio posted a 3.49% return for the quarter placing it in the 42 percentile of the CAI Public Fund Sponsor - Mid (100M-1B) group for the quarter and in the 51 percentile for the last year.
- Total Fund's portfolio underperformed the Target by 0.37% for the quarter and underperformed the Target for the year by 0.74%.

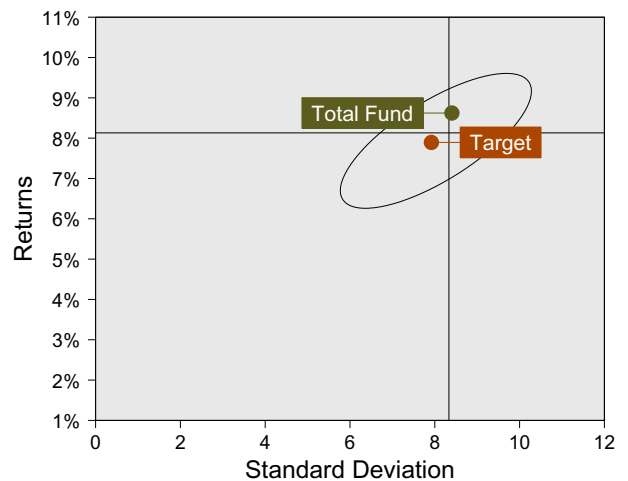
### Performance vs CAI Public Fund Sponsor - Mid (100M-1B) (Gross)



### Relative Return vs Target



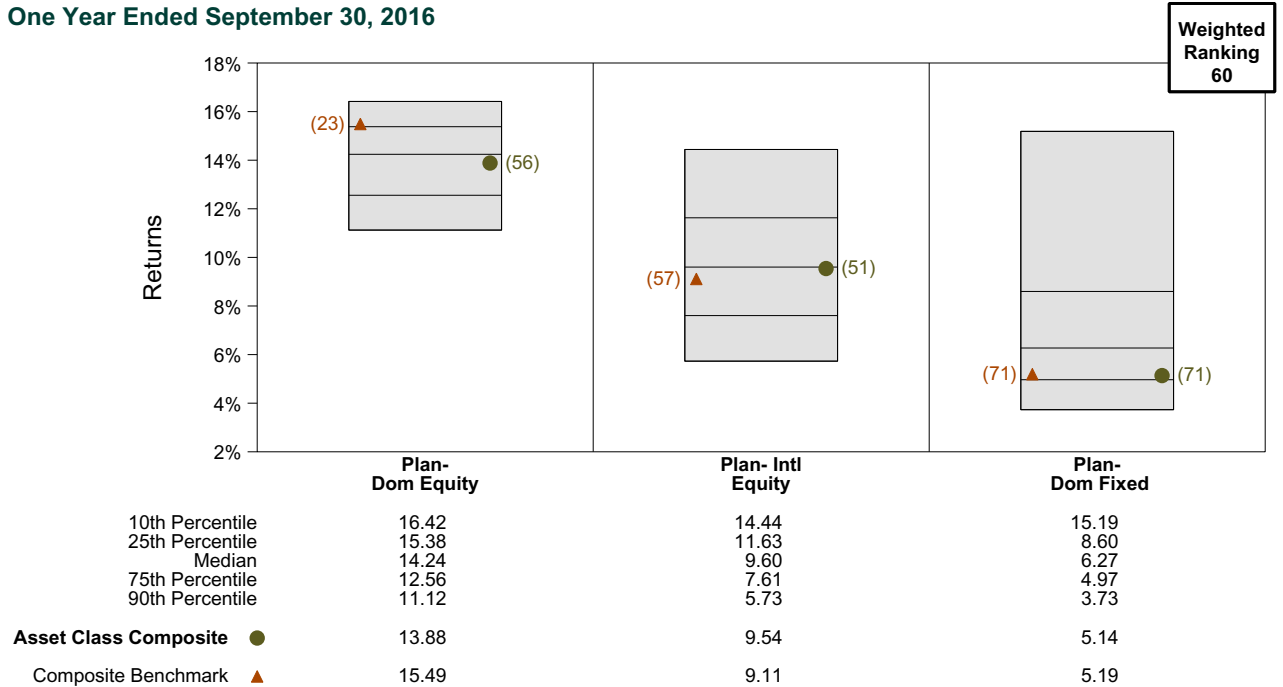
### CAI Public Fund Sponsor - Mid (100M-1B) (Gross) Annualized Seven Year Risk vs Return



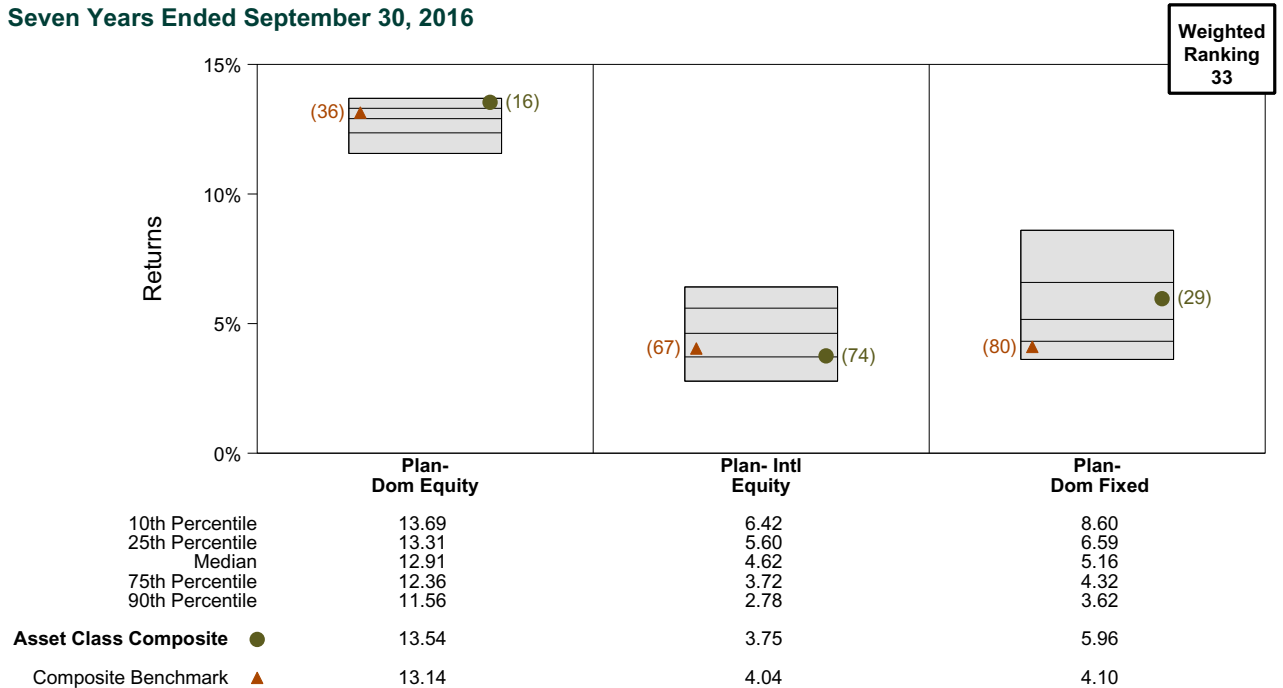
## Asset Class Rankings

The charts below show the rankings of each asset class component of the Total Fund relative to appropriate comparative databases. In the upper right corner of each graph is the weighted average of the rankings across the different asset classes. The weights of the fund's actual asset allocation are used to make this calculation. The weighted average ranking can be viewed as a measure of the fund's overall success in picking managers and structuring asset classes.

### Total Asset Class Performance One Year Ended September 30, 2016



### Total Asset Class Performance Seven Years Ended September 30, 2016

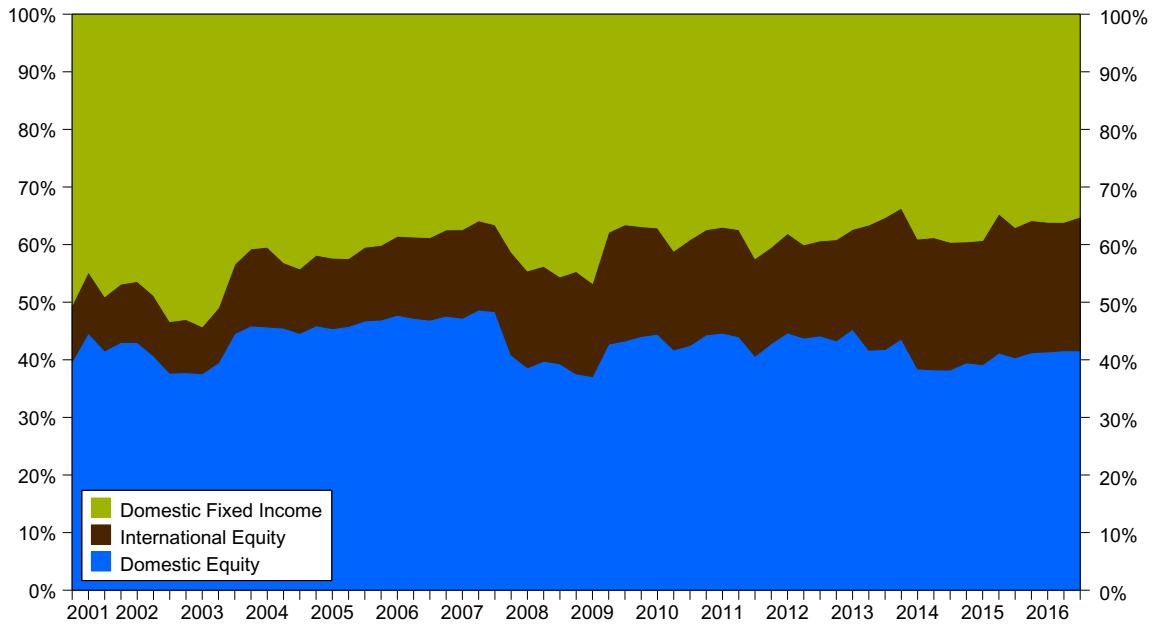


\* Current Quarter Target = 35.0% BB Barclays Aggregate Idx, 32.0% S&P 500 Index, 19.0% MSCI EAFE, 8.0% Russell 2000 Index and 6.0% MSCI EM Gross.

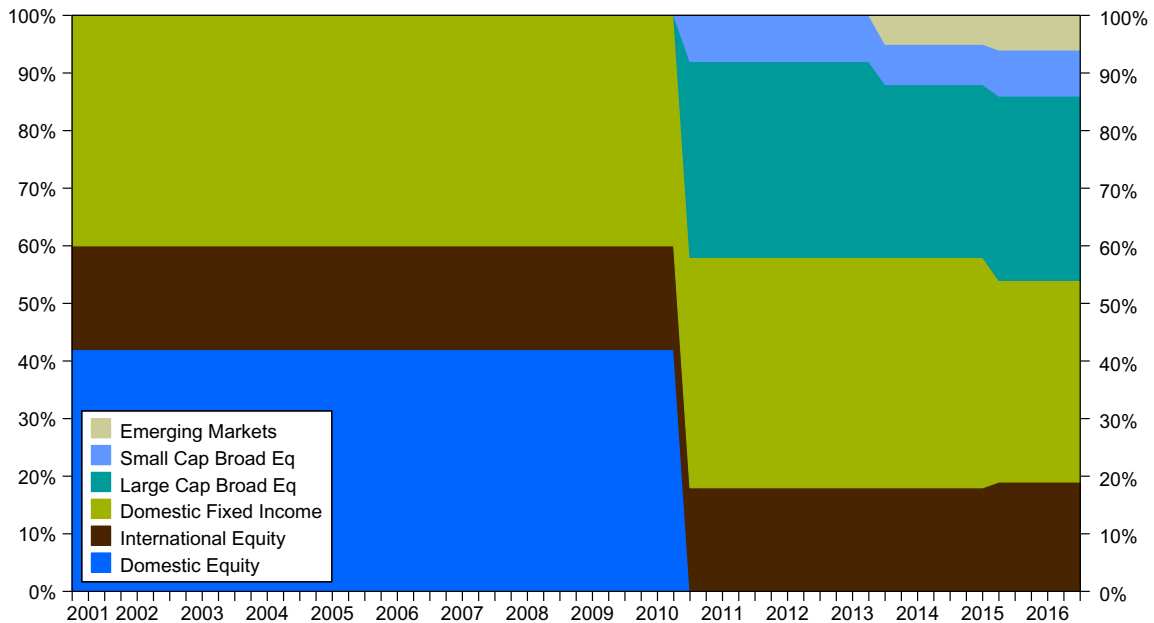
## Actual vs Target Historical Asset Allocation

The Historical asset allocation for a fund is by far the largest factor explaining its performance. The charts below show the fund's historical actual asset allocation, and the fund's historical target asset allocation.

### Actual Historical Asset Allocation



### Target Historical Asset Allocation



\* Current Quarter Target = 35.0% BB Barclays Aggregate Idx, 32.0% S&P 500 Index, 19.0% MSCI EAFE, 8.0% Russell 2000 Index and 6.0% MSCI EM Gross.

## Investment Manager Asset Allocation

The table below contrasts the distribution of assets across the Fund's investment managers as of September 30, 2016, with the distribution as of June 30, 2016. The change in asset distribution is broken down into the dollar change due to Net New Investment and the dollar change due to Investment Return.

### Asset Distribution Across Investment Managers

	September 30, 2016 Market Value	Net New Inv.	Inv. Return	June 30, 2016 Market Value
<b>Consolidated Plan</b>				
<b>Domestic Equity</b>	<b>\$104,607,667</b>	<b>\$(797,769)</b>	<b>\$3,915,754</b>	<b>\$101,489,682</b>
<b>Large Cap</b>	<b>\$82,347,424</b>	<b>\$(537,564)</b>	<b>\$3,345,610</b>	<b>\$79,539,377</b>
Boston Partners	40,706,020	0	1,771,194	38,934,826
SSgA S&P 500	41,641,404	(537,564)	1,574,416	40,604,552
<b>Small Cap</b>	<b>\$22,260,244</b>	<b>\$(260,205)</b>	<b>\$570,144</b>	<b>\$21,950,305</b>
Atlanta Capital	22,260,244	(260,205)	570,144	21,950,305
<b>International Equity</b>	<b>\$58,436,598</b>	<b>\$137,839</b>	<b>\$3,919,697</b>	<b>\$54,379,062</b>
<b>International Developed Equity</b>	<b>\$44,757,846</b>	<b>\$0</b>	<b>\$2,915,987</b>	<b>\$41,841,859</b>
Brandes	9,292	0	66	9,226
JP Morgan	23,098,150	0	1,816,393	21,281,757
SSgA EAFE	9,248,743	(12,201,601)	899,468	20,550,876
AQR	12,401,661	12,201,601	200,060	-
<b>Emerging Equity</b>	<b>\$13,678,752</b>	<b>\$137,839</b>	<b>\$1,003,710</b>	<b>\$12,537,203</b>
DFA Emerging Markets	13,678,752	137,839	1,003,710	12,537,203
<b>Fixed Income</b>	<b>\$88,590,711</b>	<b>\$(277,837)</b>	<b>\$708,071</b>	<b>\$88,160,477</b>
Metropolitan West	88,590,711	(277,837)	708,071	88,160,477
<b>Total Plan - Consolidated</b>	<b>\$251,634,977</b>	<b>\$(937,767)</b>	<b>\$8,543,522</b>	<b>\$244,029,222</b>



## Sacramento Regional Transit District Asset Growth

Ending September 30, 2016 (\$ Thousands)	Ending Market Value	=	Beginning Market Value	+	Net New Investment	+	Investment Return
<b>Total Plan</b>							
1/4 Year Ended 9/2016	251,654.1		244,029.2		(937.8)		8,562.7
1/4 Year Ended 6/2016	244,029.2		240,502.3		(684.5)		4,211.5
1/4 Year Ended 3/2016	240,502.3		238,289.7		(450.0)		2,662.6
1/4 Year Ended 12/2015	238,289.7		232,085.4		(816.4)		7,020.7
1/4 Year Ended 9/2015	232,085.4		246,970.5		(534.9)		(14,350.2)
1/4 Year Ended 6/2015	246,970.5		247,920.3		(766.8)		(183.0)
1/4 Year Ended 3/2015	247,920.3		243,017.9		(295.4)		5,197.8
1/4 Year Ended 12/2014	243,017.9		238,642.3		(1,001.3)		5,377.0
1/4 Year Ended 9/2014	238,642.3		241,859.7		(632.5)		(2,584.9)
1/4 Year Ended 6/2014	241,859.7		235,305.8		(752.1)		7,306.0
1/4 Year Ended 3/2014	235,305.8		233,171.6		(781.9)		2,916.1
1/4 Year Ended 12/2013	233,171.6		222,071.8		(913.1)		12,012.9
1/4 Year Ended 9/2013	222,071.8		212,659.5		(1,311.0)		10,723.3
1/4 Year Ended 6/2013	212,659.5		212,527.3		(1,129.6)		1,261.9
1/4 Year Ended 3/2013	212,527.3		202,131.0		(1,047.2)		11,443.5
1/4 Year Ended 12/2012	202,131.0		199,766.3		(1,446.2)		3,810.9
1/4 Year Ended 9/2012	199,766.3		190,468.1		(1,283.9)		10,582.1
1/4 Year Ended 6/2012	190,468.1		196,081.9		(1,011.3)		(4,602.5)
1/4 Year Ended 3/2012	196,081.9		180,738.3		(1,404.0)		16,747.5
1/4 Year Ended 12/2011	180,738.3		171,355.1		(1,398.2)		10,781.4
1/4 Year Ended 9/2016	251,654.1		244,029.2		(937.8)		8,562.7

## Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended September 30, 2016. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

### Returns for Periods Ended September 30, 2016

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 7 Years
<b>Domestic Equity</b>	<b>3.86%</b>	<b>13.88%</b>	<b>9.75%</b>	<b>16.98%</b>	<b>13.54%</b>
Custom Benchmark**	4.84%	15.48%	10.36%	16.31%	13.09%
<b>Large Cap Equity</b>	<b>4.21%</b>	<b>13.23%</b>	<b>9.66%</b>	<b>16.81%</b>	-
Boston Partners	4.55%	10.94%	8.10%	16.85%	12.62%
Russell 1000 Value Index	3.48%	16.20%	9.70%	16.15%	12.34%
SSgA S&P 500	3.88%	15.50%	11.23%	-	-
S&P 500 Index	3.85%	15.43%	11.16%	16.37%	13.17%
<b>Small Cap Equity</b>	<b>2.60%</b>	<b>16.33%</b>	<b>10.11%</b>	<b>17.59%</b>	-
Atlanta Capital	2.60%	16.33%	10.11%	17.59%	-
Russell 2000 Index	9.05%	15.47%	6.71%	15.82%	12.49%
<b>International Equity</b>	<b>7.04%</b>	<b>9.54%</b>	<b>0.52%</b>	<b>6.77%</b>	<b>3.75%</b>
Custom International Benchmark***	7.03%	8.85%	0.39%	7.09%	4.03%
<b>International Developed Equity</b>	<b>6.79%</b>	<b>7.23%</b>	<b>0.46%</b>	-	-
JP Morgan	8.53%	9.01%	0.64%	8.12%	5.12%
SSgA EAFE	6.48%	6.88%	0.77%	-	-
MSCI EAFE Index	6.43%	6.52%	0.48%	7.39%	4.24%
<b>Emerging Equity</b>	<b>8.09%</b>	<b>18.81%</b>	<b>1.13%</b>	-	-
DFA Emerging Markets	8.09%	18.81%	1.13%	-	-
MSCI Emerging Mkts Idx	9.15%	17.21%	(0.21%)	3.39%	2.61%
<b>Domestic Fixed Income</b>	<b>0.80%</b>	<b>5.14%</b>	<b>4.10%</b>	<b>4.32%</b>	<b>5.96%</b>
Met West	0.80%	5.14%	4.10%	4.32%	5.96%
BC Aggregate Index	0.46%	5.19%	4.03%	3.08%	4.10%
<b>Total Plan</b>	<b>3.49%</b>	<b>9.72%</b>	<b>5.50%</b>	<b>9.86%</b>	<b>8.62%</b>
Target*	3.87%	10.46%	5.59%	9.13%	7.89%

\* Current Quarter Target = 35.0% BB Barclays Aggregate Idx, 32.0% S&P 500 Index, 19.0% MSCI EAFE, 8.0% Russell 2000 Index and 6.0% MSCI EM Gross.

\*\* Custom Benchmark = 81% S&P500, 19% Russell 2000

\*\*\* Custom International Benchmark = MSCI EAFE until 6/30/2013 when it becomes 78.261% MSCI EAFE, 21.739% MSCI Emerging Markets

## Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended September 30, 2016. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

### Returns for Periods Ended September 30, 2016

	Last 10 Years	Last 15 Years	Last 20 Years	Last 22-1/2 Years
<b>Domestic Equity</b>	<b>8.35%</b>	<b>7.97%</b>	<b>7.79%</b>	-
Custom Benchmark**	7.25%	7.60%	8.01%	9.36%
Russell 1000 Value Index	5.85%	7.46%	8.49%	9.64%
S&P 500 Index	7.24%	7.15%	7.91%	9.39%
Russell 2000 Index	7.07%	9.26%	8.06%	8.87%
<b>International Equity</b>	<b>1.63%</b>	<b>6.84%</b>	<b>9.05%</b>	-
MSCI EAFE Index	1.82%	5.81%	4.29%	4.68%
<b>Domestic Fixed Income</b>	<b>6.34%</b>	<b>5.87%</b>	<b>6.37%</b>	-
Met West	6.34%	5.87%	-	-
BC Aggregate Index	4.79%	4.80%	5.60%	5.78%
<b>Total Plan</b>	<b>6.56%</b>	<b>6.93%</b>	<b>7.68%</b>	<b>8.86%</b>
Target*	5.53%	6.43%	6.76%	7.45%

\* Current Quarter Target = 35.0% BB Barclays Aggregate Idx, 32.0% S&P 500 Index, 19.0% MSCI EAFE, 8.0% Russell 2000 Index and 6.0% MSCI EM Gross.

\*\* Custom Benchmark = 81% S&P500, 19% Russell 2000

## Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	12/2015- 9/2016	2015	2014	2013	2012
<b>Domestic Equity</b>	<b>7.75%</b>	<b>0.06%</b>	<b>10.85%</b>	<b>36.44%</b>	<b>19.19%</b>
Custom Benchmark**	8.54%	0.30%	12.05%	33.61%	16.08%
<b>Large Cap Equity</b>	<b>6.88%</b>	<b>(1.17%)</b>	<b>12.81%</b>	<b>34.96%</b>	<b>21.29%</b>
Boston Partners	5.87%	(3.75%)	11.87%	37.52%	21.95%
Russell 1000 Value Index	10.00%	(3.83%)	13.45%	32.53%	17.51%
SSgA S&P 500	7.87%	1.46%	13.77%	32.36%	-
S&P 500 Index	7.84%	1.38%	13.69%	32.39%	16.00%
<b>Small Cap Equity</b>	<b>11.06%</b>	<b>5.14%</b>	<b>3.49%</b>	<b>41.51%</b>	<b>11.96%</b>
Atlanta Capital	11.06%	5.14%	3.49%	41.51%	11.96%
Russell 2000 Index	11.46%	(4.41%)	4.89%	38.82%	16.35%
<b>International Equity</b>	<b>5.57%</b>	<b>(4.17%)</b>	<b>(3.72%)</b>	<b>16.66%</b>	<b>17.28%</b>
<b>International Developed Equity</b>	<b>2.30%</b>	<b>(1.17%)</b>	<b>(4.41%)</b>	<b>20.27%</b>	<b>-</b>
JP Morgan	3.92%	(1.75%)	(4.28%)	18.12%	21.23%
SSgA EAFE	2.06%	(0.56%)	(4.55%)	22.80%	-
MSCI EAFE Index	1.73%	(0.81%)	(4.90%)	22.78%	17.32%
<b>Emerging Equity</b>	<b>18.87%</b>	<b>(14.33%)</b>	<b>(0.28%)</b>	<b>-</b>	<b>-</b>
DFA Emerging Markets	18.87%	(14.33%)	(0.28%)	-	-
MSCI Emerging Mkts Idx	16.36%	(14.60%)	(1.82%)	(2.27%)	18.63%
<b>Domestic Fixed Income</b>	<b>5.50%</b>	<b>0.51%</b>	<b>6.37%</b>	<b>(1.03%)</b>	<b>9.48%</b>
Met West	5.50%	0.51%	6.37%	(1.03%)	9.48%
BC Aggregate Index	5.80%	0.55%	5.97%	(2.02%)	4.21%
<b>Total Plan</b>	<b>6.50%</b>	<b>(0.97%)</b>	<b>5.61%</b>	<b>17.71%</b>	<b>14.80%</b>
Target*	6.91%	(0.69%)	5.84%	16.00%	11.68%

\* Current Quarter Target = 35.0% BB Barclays Aggregate Idx, 32.0% S&P 500 Index, 19.0% MSCI EAFE, 8.0% Russell 2000 Index and 6.0% MSCI EM Gross.

Returns are for annualized calendar years.

\*\* Custom Benchmark = 81% S&P500, 19% Russell 2000

## Investment Manager Returns

The table below details the rates of return for the Sponsor's investment managers over various time periods. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	2011	2010	2009	2008	2007
<b>Domestic Equity</b>	<b>2.08%</b>	<b>15.93%</b>	<b>32.93%</b>	<b>(36.27%)</b>	<b>6.46%</b>
Custom Benchmark**	0.97%	17.25%	26.65%	(36.35%)	4.14%
Boston Partners	1.27%	13.61%	27.06%	(32.69%)	4.02%
Russell 1000 Value Index	0.39%	15.51%	19.69%	(36.85%)	(0.17%)
S&P 500 Index	2.11%	15.06%	26.47%	(37.00%)	5.49%
Russell 2000 Index	(4.18%)	26.85%	27.17%	(33.79%)	(1.57%)
<b>International Equity</b>	<b>(10.64%)</b>	<b>6.51%</b>	<b>28.99%</b>	<b>(39.41%)</b>	<b>7.68%</b>
MSCI EAFE Index	(12.14%)	7.75%	31.78%	(43.38%)	11.17%
<b>Domestic Fixed Income</b>	<b>6.10%</b>	<b>12.52%</b>	<b>19.88%</b>	<b>(3.11%)</b>	<b>7.50%</b>
Met West	6.10%	12.52%	19.88%	(3.11%)	7.50%
BC Aggregate Index	7.84%	6.54%	5.93%	5.24%	6.97%
<b>Total Plan</b>	<b>1.22%</b>	<b>12.70%</b>	<b>26.91%</b>	<b>(23.45%)</b>	<b>7.29%</b>
Target*	1.52%	11.85%	20.02%	(23.33%)	6.92%

\* Current Quarter Target = 35.0% BB Barclays Aggregate Idx, 32.0% S&P 500 Index, 19.0% MSCI EAFE, 8.0% Russell 2000 Index and 6.0% MSCI EM Gross.

Returns are for annualized calendar years.

\*\* Custom Benchmark = 81% S&P500, 19% Russell 2000

## Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended September 30, 2016. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

### Returns for Periods Ended September 30, 2016

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 7 Years
<b>Net of Fee Returns</b>					
Domestic Equity	3.76%	-	-	-	-
Large Cap Equity	4.13%	-	-	-	-
Boston Partners	4.41%	10.34%	7.51%	16.24%	12.08%
Russell 1000 Value Index	3.48%	16.20%	9.70%	16.15%	12.34%
SSgA S&P 500	3.87%	15.45%	11.17%	-	-
S&P 500 Index	3.85%	15.43%	11.16%	16.37%	13.17%
Small Cap Equity	2.39%	-	-	-	-
Atlanta Capital	2.39%	15.41%	9.24%	16.70%	-
Russell 2000 Index	9.05%	15.47%	6.71%	15.82%	12.49%
International Equity	6.91%	-	-	-	-
International Developed Equity	6.64%	-	-	-	-
JP Morgan	8.35%	8.26%	0.11%	7.48%	4.47%
SSgA EAFE	6.45%	6.77%	0.66%	-	-
MSCI EAFE Index	6.43%	6.52%	0.48%	7.39%	4.24%
Emerging Equity	7.92%	-	-	-	-
DFA Emerging Markets	7.92%	18.08%	0.50%	-	-
MSCI Emerging Mkts Idx	9.15%	17.21%	(0.21%)	3.39%	2.61%
Domestic Fixed Income	0.73%	-	-	-	-
Met West	0.73%	4.85%	3.81%	4.03%	5.67%
BC Aggregate Index	0.46%	5.19%	4.03%	3.08%	4.10%
Total Plan	3.40%	9.33%	5.14%	9.45%	8.17%
Target*	3.87%	10.46%	5.59%	9.13%	7.89%

\* Current Quarter Target = 35.0% BB Barclays Aggregate Idx, 32.0% S&P 500 Index, 19.0% MSCI EAFE, 8.0% Russell 2000 Index and 6.0% MSCI EM Gross.

\*\* Custom International Benchmark = MSCI EAFE until 6/30/2013 when it becomes 78.261% MSCI EAFE, 21.739% MSCI Emerging Markets



# Domestic Equity

## Period Ended September 30, 2016

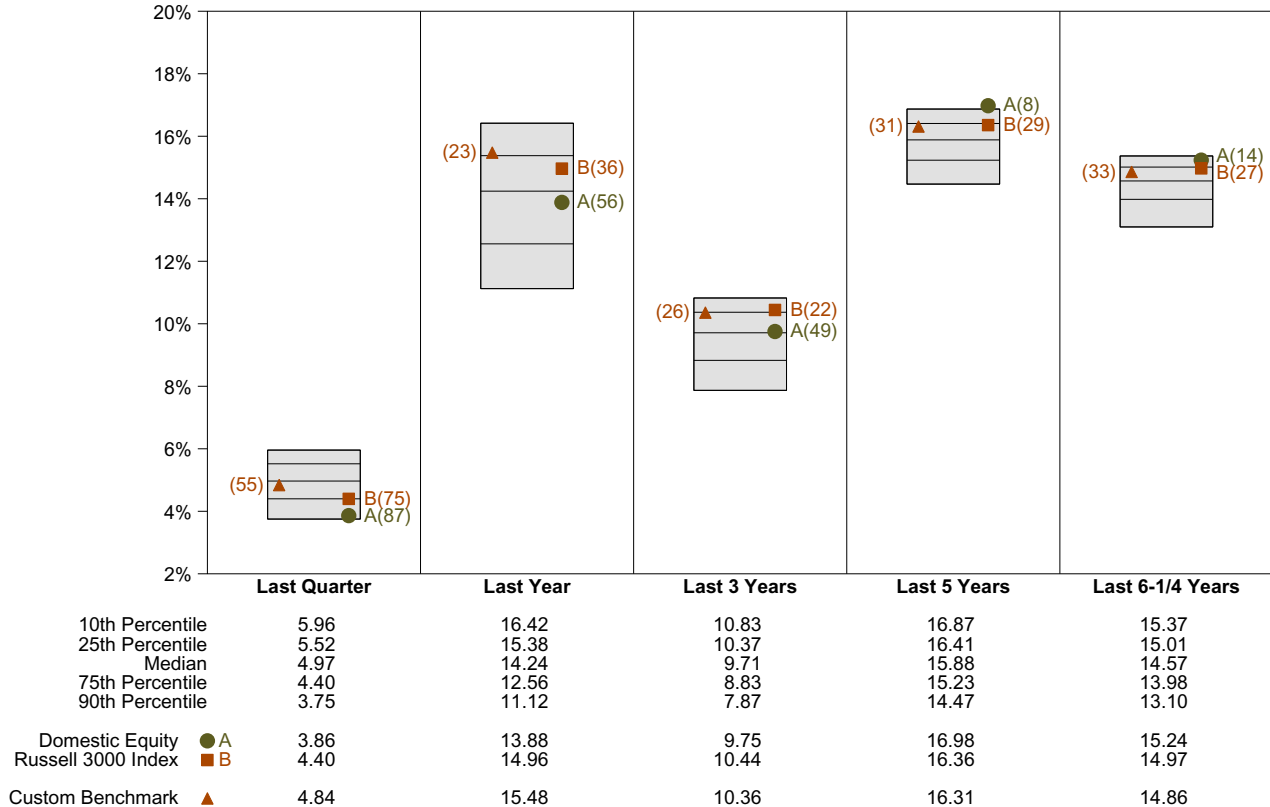
### Investment Philosophy

The Custom Benchmark consists of 81.0% S&P 500 index and 19.0% Russell 2000 Index.

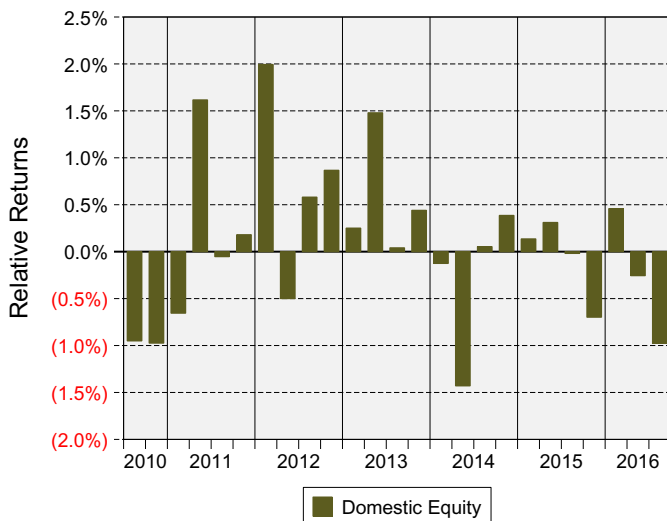
### Quarterly Summary and Highlights

- Domestic Equity's portfolio posted a 3.86% return for the quarter placing it in the 87 percentile of the Fund Spnsr-Domestic Equity group for the quarter and in the 56 percentile for the last year.
- Domestic Equity's portfolio underperformed the Custom Benchmark by 0.98% for the quarter and underperformed the Custom Benchmark for the year by 1.59%.

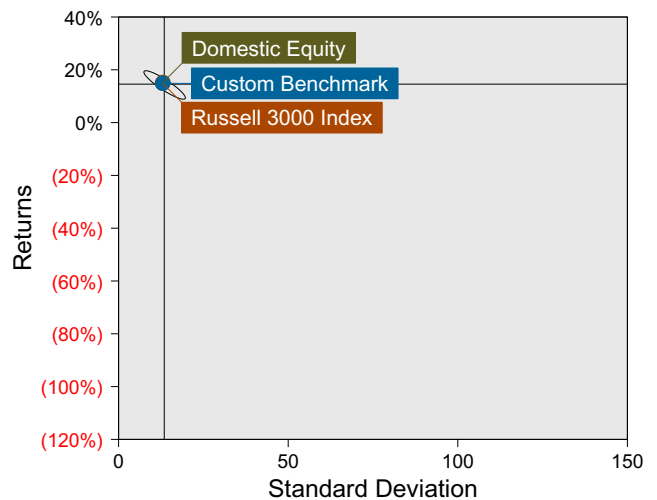
### Performance vs Fund Spnsr- Domestic Equity (Gross)



### Relative Return vs Custom Benchmark



### Fund Spnsr- Domestic Equity (Gross) Annualized Six and One-Quarter Year Risk vs Return

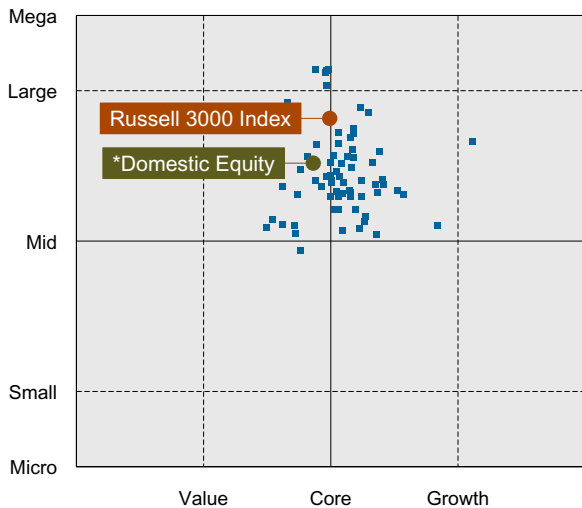




# Current Holdings Based Style Analysis Domestic Equity As of September 30, 2016

This page analyzes the current investment style of a portfolio utilizing a detailed holdings-based style analysis to determine actual exposures to various market capitalization and style segments of the domestic equity market. The market is segmented quarterly by capitalization and style. The capitalization segments are dictated by capitalization decile breakpoints. The style segments are determined using the "Combined Z Score", based on the eight fundamental factors used in the MSCI stock style scoring system. The upper-left style map illustrates the current market capitalization and style score of the portfolio relative to indices and/or peers. The upper-right style exposure matrix displays the current portfolio and index weights and stock counts (in parentheses) in each capitalization/style segment of the market. The middle chart illustrates the total exposures and stock counts in the three style segments, with a legend showing the total growth, value, and "combined Z" (growth - value) scores. The bottom chart exhibits the sector weights as well as the style weights within each sector.

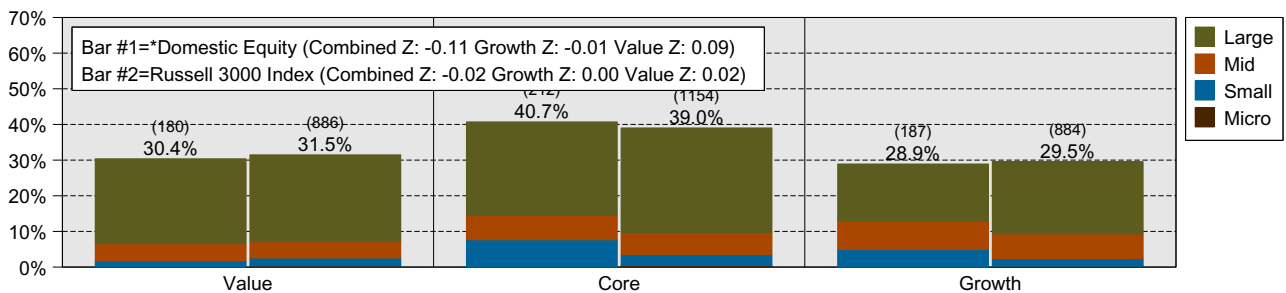
**Style Map vs Plan- Dom Equity Holdings as of September 30, 2016**



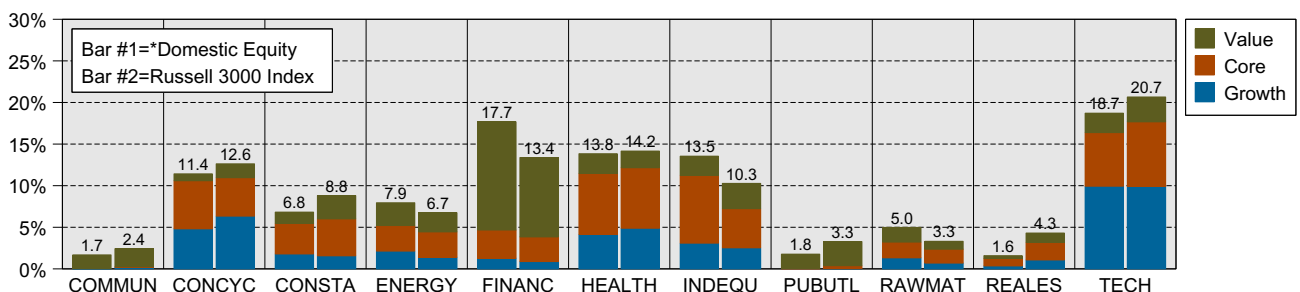
**Style Exposure Matrix Holdings as of September 30, 2016**

	Value	Core	Growth	Total
Large	23.8% (94)	26.3% (102)	16.1% (90)	66.1% (286)
	24.3% (94)	29.2% (101)	20.2% (96)	73.8% (291)
Mid	4.8% (76)	6.8% (84)	7.9% (82)	19.6% (242)
	4.6% (143)	6.3% (217)	6.8% (225)	17.7% (585)
Small	1.7% (10)	7.7% (26)	4.9% (15)	14.3% (51)
	2.2% (346)	3.1% (459)	2.2% (365)	7.5% (1170)
Micro	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
	0.3% (303)	0.4% (377)	0.3% (198)	1.0% (878)
<b>Total</b>	<b>30.4% (180)</b>	<b>40.7% (212)</b>	<b>28.9% (187)</b>	<b>100.0% (579)</b>
	<b>31.5% (886)</b>	<b>39.0% (1154)</b>	<b>29.5% (884)</b>	<b>100.0% (2924)</b>

**Combined Z-Score Style Distribution Holdings as of September 30, 2016**



**Sector Weights Distribution Holdings as of September 30, 2016**



\* 9/30/16 portfolio characteristics generated using most recently available holdings (6/30/16) modified based on a "buy-and-hold" assumption (repriced and adjusted for corporate actions). Analysis is then done using current market and company financial data.

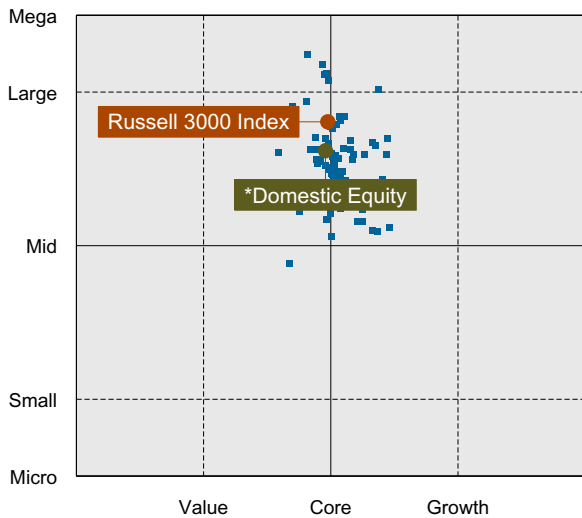
# Historical Holdings Based Style Analysis

## Domestic Equity

### For Six and 1/4 Years Ended September 30, 2016

This page analyzes the historical investment style of a portfolio utilizing a detailed holdings-based style analysis to determine average actual exposures to various market capitalization and style segments of the domestic equity market. The market is segmented quarterly by capitalization and style. The capitalization segments are dictated by capitalization decile breakpoints. The style segments are determined using the "Combined Z Score", based on the eight fundamental factors used in the MSCI stock style scoring system. The upper-left style map illustrates the average historical market capitalization and style score of the portfolio relative to indices and/or peers. The upper-right style exposure matrix displays the average historical portfolio and index weights and stock counts (in parentheses) in each capitalization/style segment of the market. The next two style exposure charts illustrate the actual quarterly cap/style and style only segment exposures of the portfolio through history.

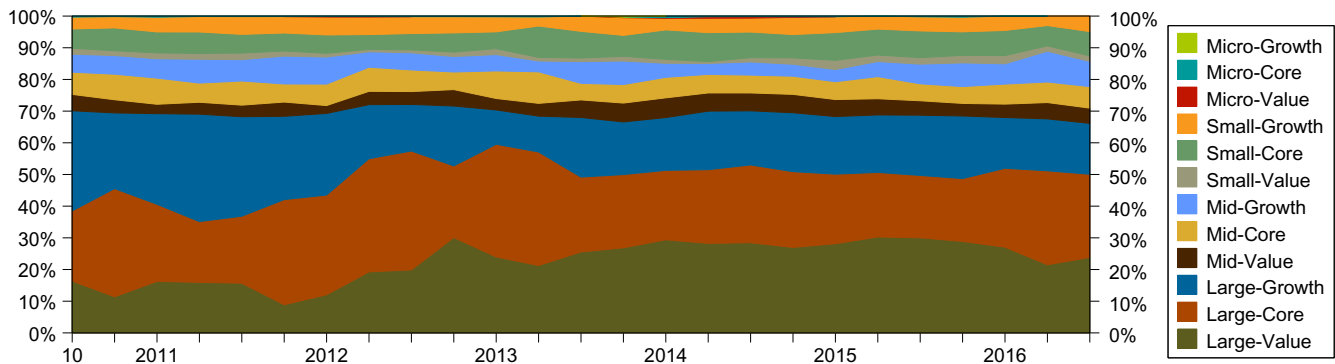
**Average Style Map vs Plan- Dom Equity Holdings for Six and 1/4 Years Ended September 30, 2016**



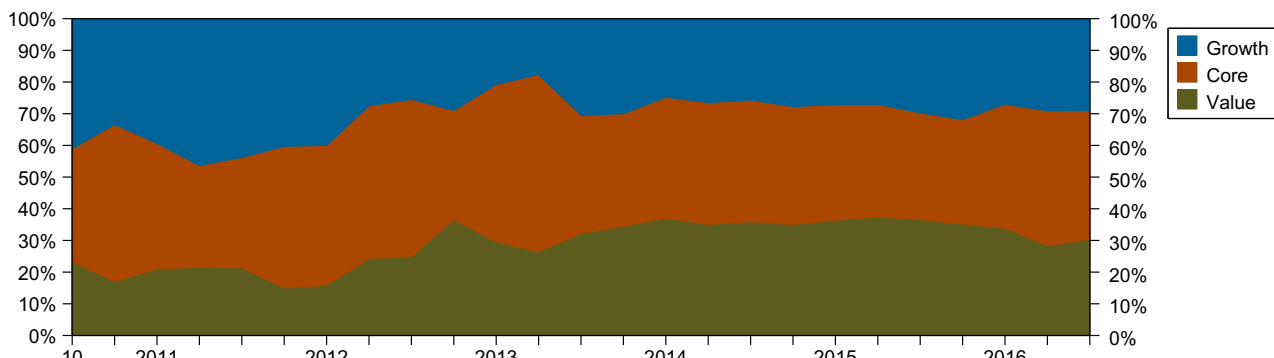
**Average Style Exposure Matrix Holdings for Six and 1/4 Years Ended September 30, 2016**

	22.6% (71)	26.2% (87)	20.2% (79)	<b>69.0% (237)</b>
Large	23.7% (87)	26.1% (107)	23.5% (104)	<b>73.3% (298)</b>
Mid	4.6% (67)	6.6% (68)	6.0% (50)	<b>17.2% (185)</b>
	5.4% (174)	6.2% (214)	6.5% (209)	<b>18.1% (597)</b>
Small	1.6% (9)	7.2% (26)	4.6% (16)	<b>13.4% (51)</b>
	2.3% (344)	3.0% (463)	2.4% (387)	<b>7.6% (1194)</b>
Micro	0.1% (0)	0.2% (1)	0.0% (0)	<b>0.3% (1)</b>
	0.4% (303)	0.4% (353)	0.3% (210)	<b>1.1% (866)</b>
<b>Total</b>	<b>29.0% (147)</b>	<b>40.2% (182)</b>	<b>30.8% (145)</b>	<b>100.0% (474)</b>
	<b>31.7% (908)</b>	<b>35.7% (1137)</b>	<b>32.6% (910)</b>	<b>100.0% (2955)</b>
	Value	Core	Growth	<b>Total</b>

**\*Domestic Equity Historical Cap/Style Exposures**



**\*Domestic Equity Historical Style Only Exposures**



\* 9/30/16 portfolio characteristics generated using most recently available holdings (6/30/16) modified based on a "buy-and-hold" assumption (repriced and adjusted for corporate actions). Analysis is then done using current market and company financial data.

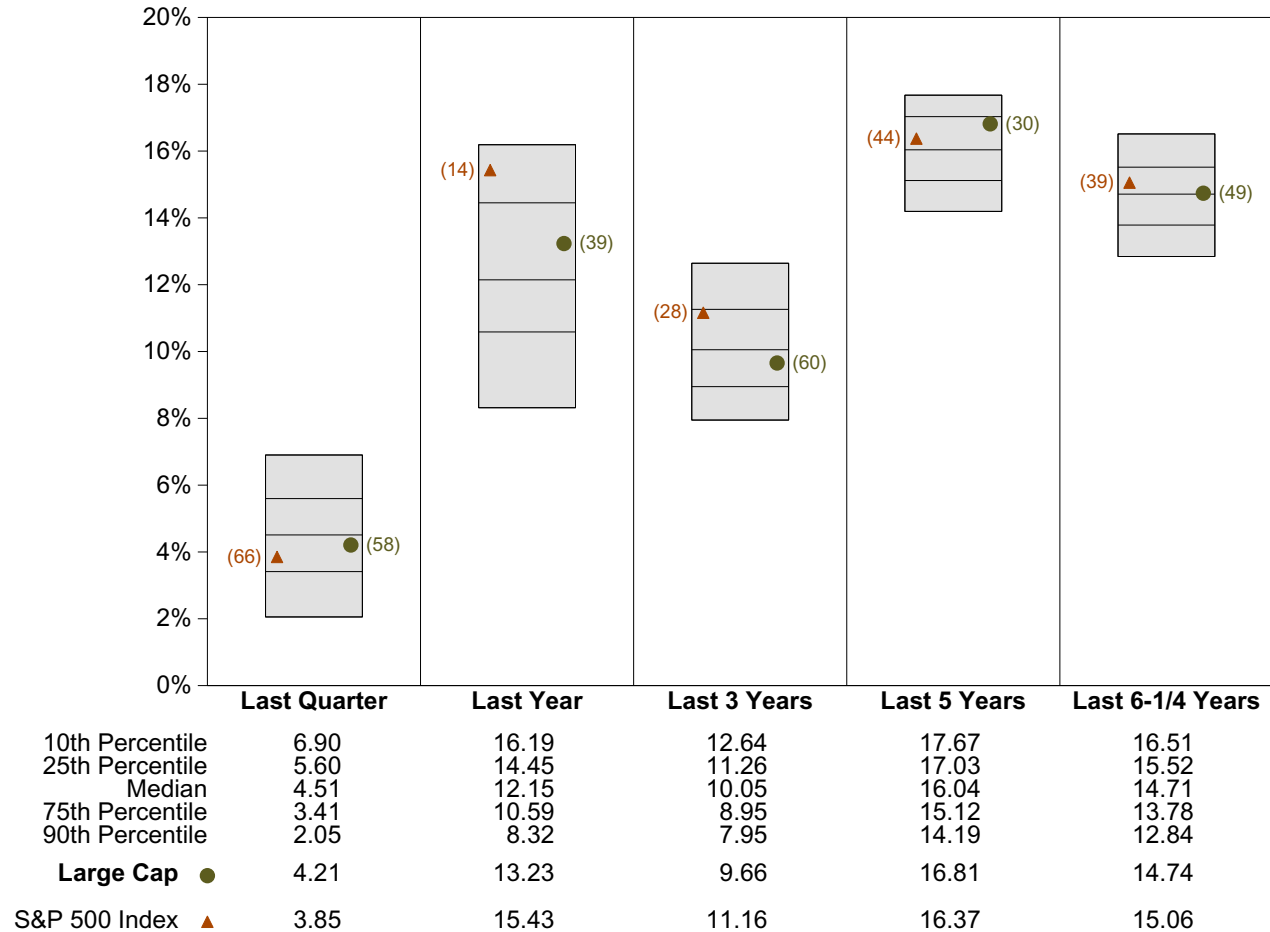
# Large Cap

## Period Ended September 30, 2016

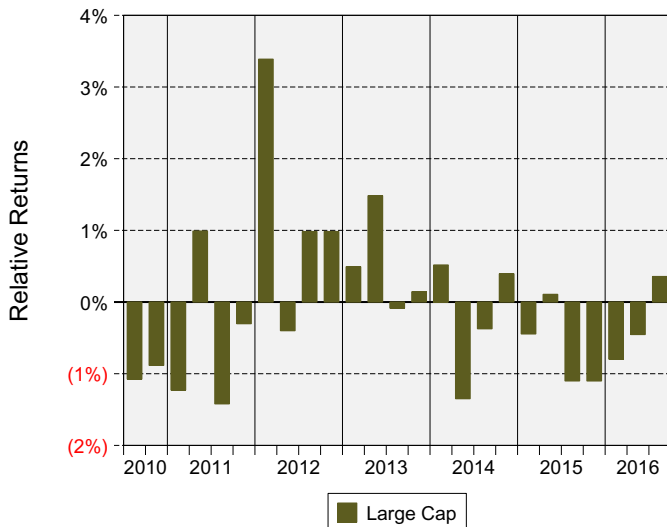
### Quarterly Summary and Highlights

- Large Cap's portfolio posted a 4.21% return for the quarter placing it in the 58 percentile of the CAI Large Capitalization group for the quarter and in the 39 percentile for the last year.
- Large Cap's portfolio outperformed the S&P 500 Index by 0.36% for the quarter and underperformed the S&P 500 Index for the year by 2.20%.

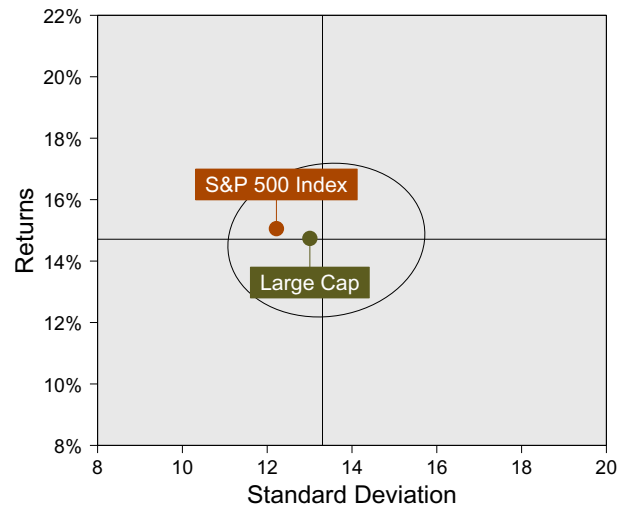
### Performance vs CAI Large Capitalization (Gross)



### Relative Return vs S&P 500 Index



### CAI Large Capitalization (Gross) Annualized Six and One-Quarter Year Risk vs Return



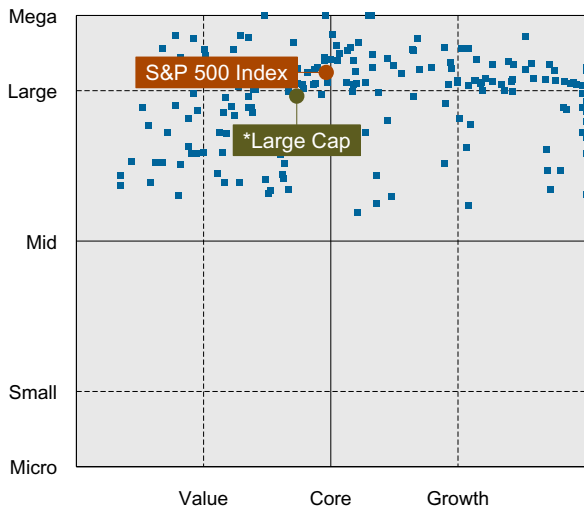
# Current Holdings Based Style Analysis

## Large Cap

### As of September 30, 2016

This page analyzes the current investment style of a portfolio utilizing a detailed holdings-based style analysis to determine actual exposures to various market capitalization and style segments of the domestic equity market. The market is segmented quarterly by capitalization and style. The capitalization segments are dictated by capitalization decile breakpoints. The style segments are determined using the "Combined Z Score", based on the eight fundamental factors used in the MSCI stock style scoring system. The upper-left style map illustrates the current market capitalization and style score of the portfolio relative to indices and/or peers. The upper-right style exposure matrix displays the current portfolio and index weights and stock counts (in parentheses) in each capitalization/style segment of the market. The middle chart illustrates the total exposures and stock counts in the three style segments, with a legend showing the total growth, value, and "combined Z" (growth - value) scores. The bottom chart exhibits the sector weights as well as the style weights within each sector.

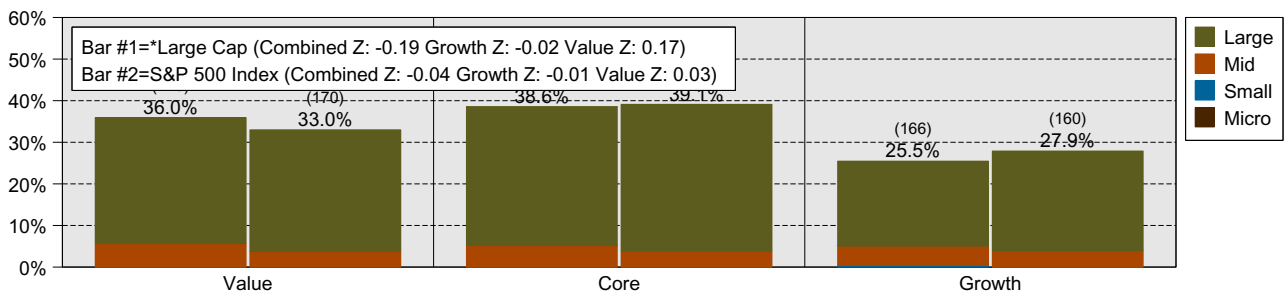
**Style Map vs CAI Large Capitalization Holdings as of September 30, 2016**



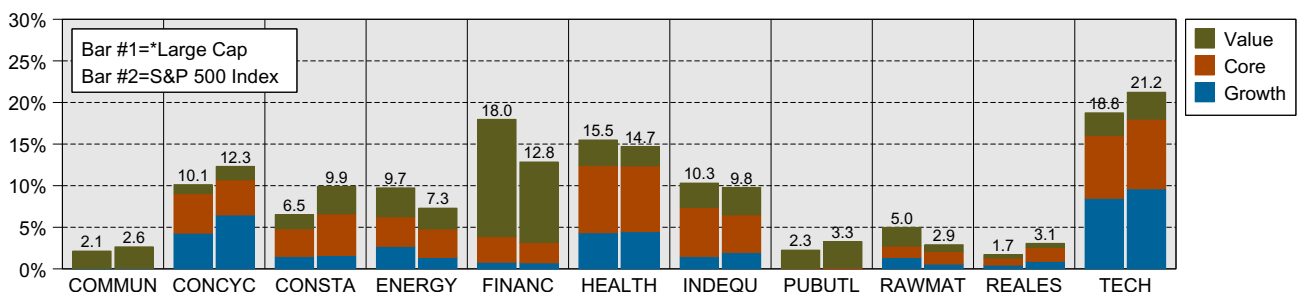
**Style Exposure Matrix Holdings as of September 30, 2016**

	Value	Core	Growth	Total
Large	30.3% (94)	33.4% (102)	20.4% (90)	84.1% (286)
	29.3% (93)	35.2% (100)	24.0% (86)	88.5% (279)
Mid	5.6% (75)	5.2% (78)	4.6% (73)	15.4% (226)
	3.7% (72)	3.8% (74)	3.9% (73)	11.4% (219)
Small	0.0% (4)	0.0% (2)	0.4% (3)	0.5% (9)
	0.1% (5)	0.0% (2)	0.0% (1)	0.1% (8)
Micro	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
<b>Total</b>	<b>36.0% (173)</b>	<b>38.6% (182)</b>	<b>25.5% (166)</b>	<b>100.0% (521)</b>
	<b>33.0% (170)</b>	<b>39.1% (176)</b>	<b>27.9% (160)</b>	<b>100.0% (506)</b>

**Combined Z-Score Style Distribution Holdings as of September 30, 2016**



**Sector Weights Distribution Holdings as of September 30, 2016**



\*9/30/16 portfolio characteristics generated using most recently available holdings (6/30/16) modified based on a "buy-and-hold" assumption (repriced and adjusted for corporate actions). Analysis is then done using current market and company financial data.

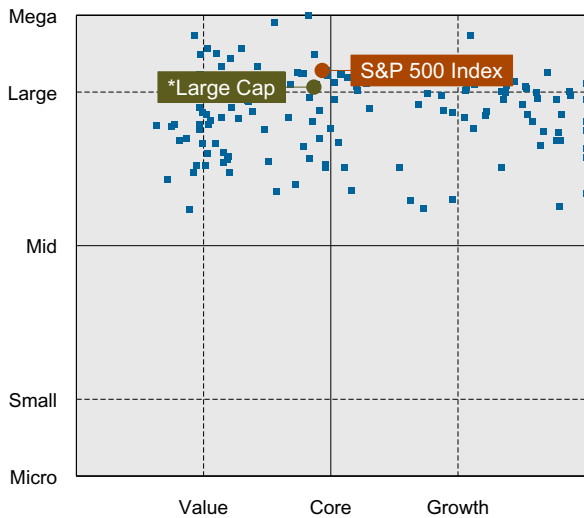
# Historical Holdings Based Style Analysis

## Large Cap

### For Six and 1/4 Years Ended September 30, 2016

This page analyzes the historical investment style of a portfolio utilizing a detailed holdings-based style analysis to determine average actual exposures to various market capitalization and style segments of the domestic equity market. The market is segmented quarterly by capitalization and style. The capitalization segments are dictated by capitalization decile breakpoints. The style segments are determined using the "Combined Z Score", based on the eight fundamental factors used in the MSCI stock style scoring system. The upper-left style map illustrates the average historical market capitalization and style score of the portfolio relative to indices and/or peers. The upper-right style exposure matrix displays the average historical portfolio and index weights and stock counts (in parentheses) in each capitalization/style segment of the market. The next two style exposure charts illustrate the actual quarterly cap/style and style only segment exposures of the portfolio through history.

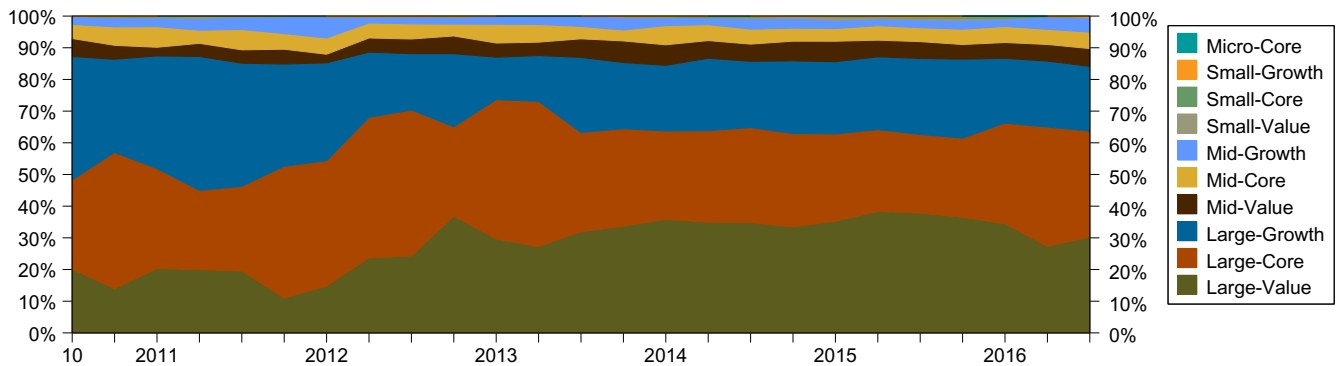
**Average Style Map vs CAI Large Capitalization Holdings for Six and 1/4 Years Ended September 30, 2016**



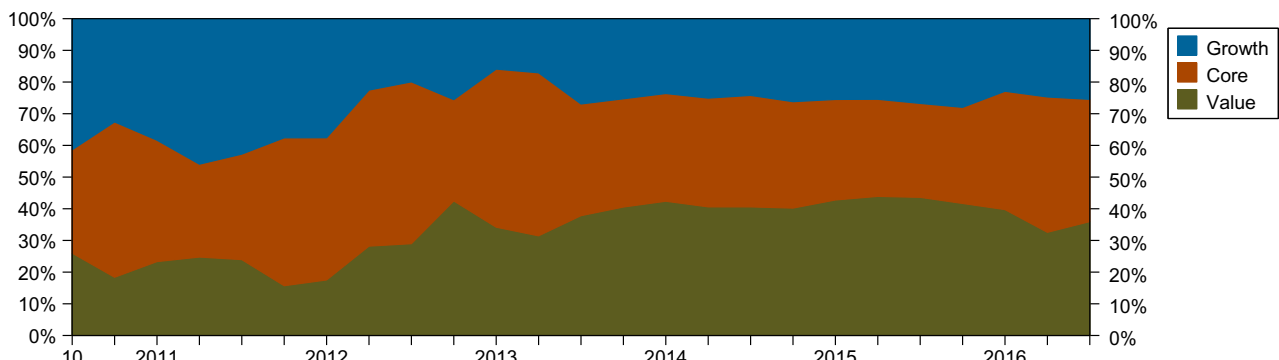
**Average Style Exposure Matrix Holdings for Six and 1/4 Years Ended September 30, 2016**

	28.3% (70)	33.1% (87)	25.0% (78)	<b>86.4% (235)</b>
Large	29.2% (86)	31.9% (104)	28.1% (93)	<b>89.1% (283)</b>
Mid	5.0% (65)	4.9% (61)	3.2% (42)	<b>13.1% (168)</b>
	3.9% (81)	3.8% (76)	3.1% (54)	<b>10.8% (211)</b>
Small	0.2% (4)	0.2% (2)	0.1% (1)	<b>0.5% (7)</b>
	0.1% (4)	0.0% (2)	0.0% (1)	<b>0.1% (7)</b>
Micro	0.0% (0)	0.0% (0)	0.0% (0)	<b>0.0% (0)</b>
	0.0% (0)	0.0% (0)	0.0% (0)	<b>0.0% (0)</b>
<b>Total</b>	<b>33.5% (139)</b>	<b>38.2% (150)</b>	<b>28.3% (121)</b>	<b>100.0% (410)</b>
	<b>33.1% (171)</b>	<b>35.7% (182)</b>	<b>31.2% (148)</b>	<b>100.0% (501)</b>
	Value	Core	Growth	<b>Total</b>

**\*Large Cap Historical Cap/Style Exposures**



**\*Large Cap Historical Style Only Exposures**



\* 9/30/16 portfolio characteristics generated using most recently available holdings (6/30/16) modified based on a "buy-and-hold" assumption (repriced and adjusted for corporate actions). Analysis is then done using current market and company financial data.

# SSgA S&P 500

## Period Ended September 30, 2016

### Investment Philosophy

SSGA believes that their passive investment strategy can provide market-like returns with minimal transaction costs. Returns prior to 6/30/2012 are linked to a composite history.

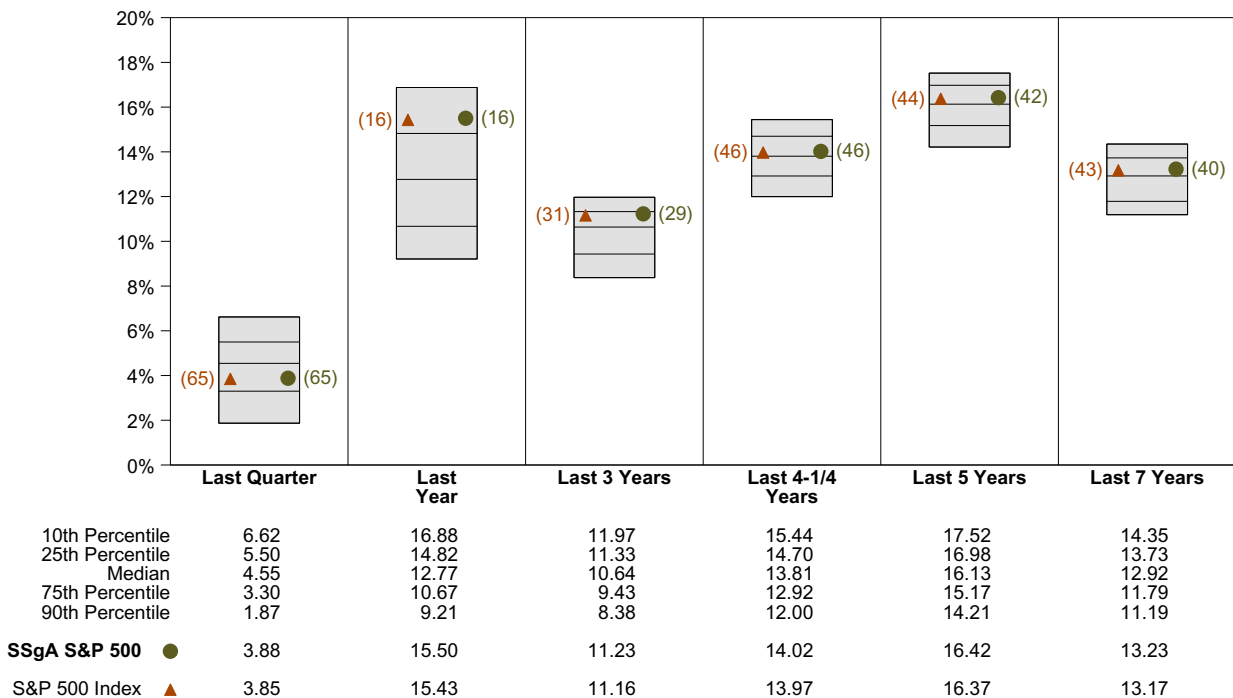
### Quarterly Summary and Highlights

- SSgA S&P 500's portfolio posted a 3.88% return for the quarter placing it in the 65th percentile of the CAI Large Cap Core group for the quarter and in the 16th percentile for the last year.
- SSgA S&P 500's portfolio outperformed the S&P 500 Index by 0.03% for the quarter and outperformed the S&P 500 Index for the year by 0.07%.

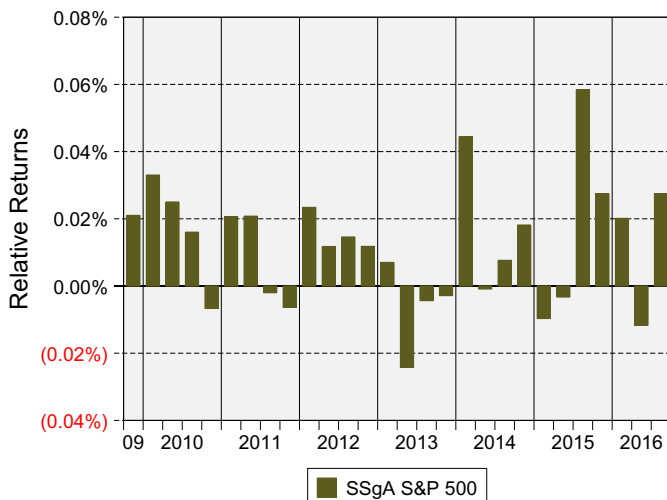
### Quarterly Asset Growth

Beginning Market Value	\$40,604,552
Net New Investment	\$-537,564
Investment Gains/(Losses)	\$1,574,416
Ending Market Value	\$41,641,404

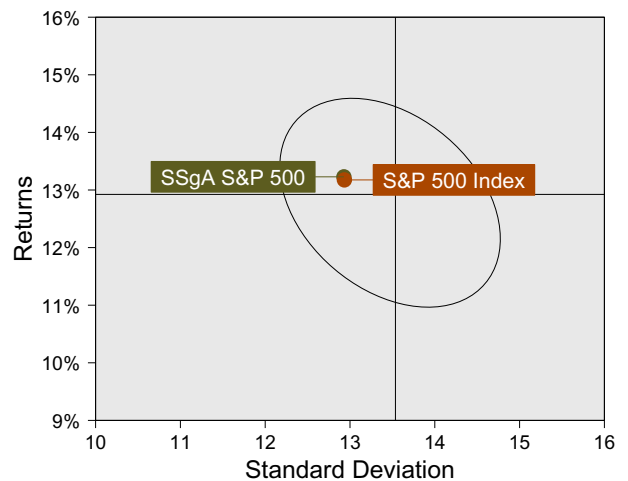
### Performance vs CAI Large Cap Core (Gross)



### Relative Return vs S&P 500 Index



### CAI Large Cap Core (Gross) Annualized Seven Year Risk vs Return

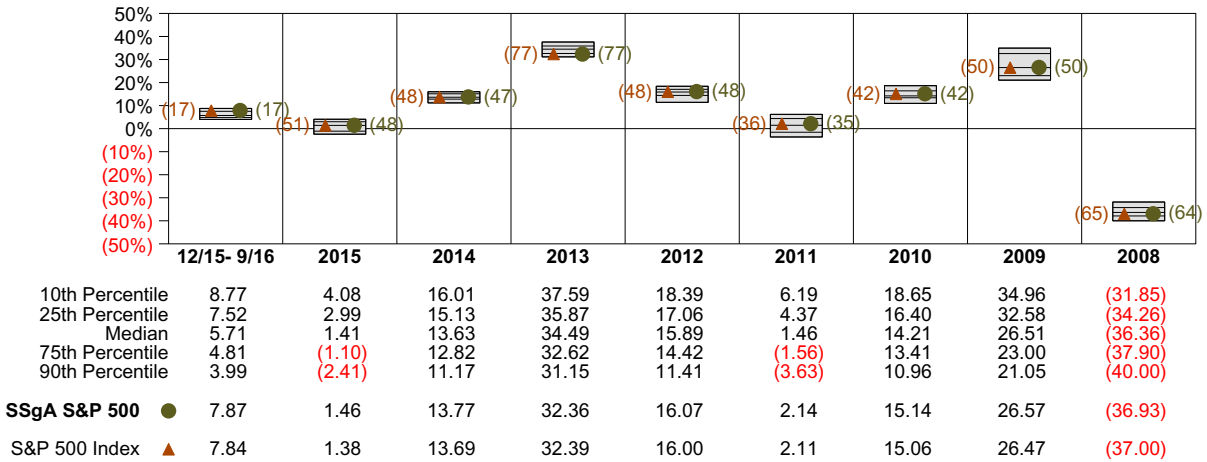


# SSgA S&P 500 Return Analysis Summary

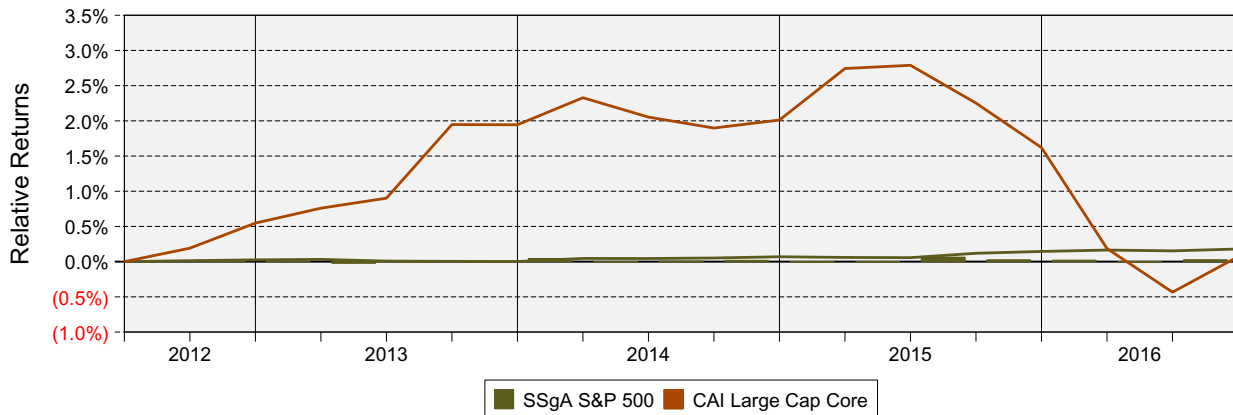
## Return Analysis

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.

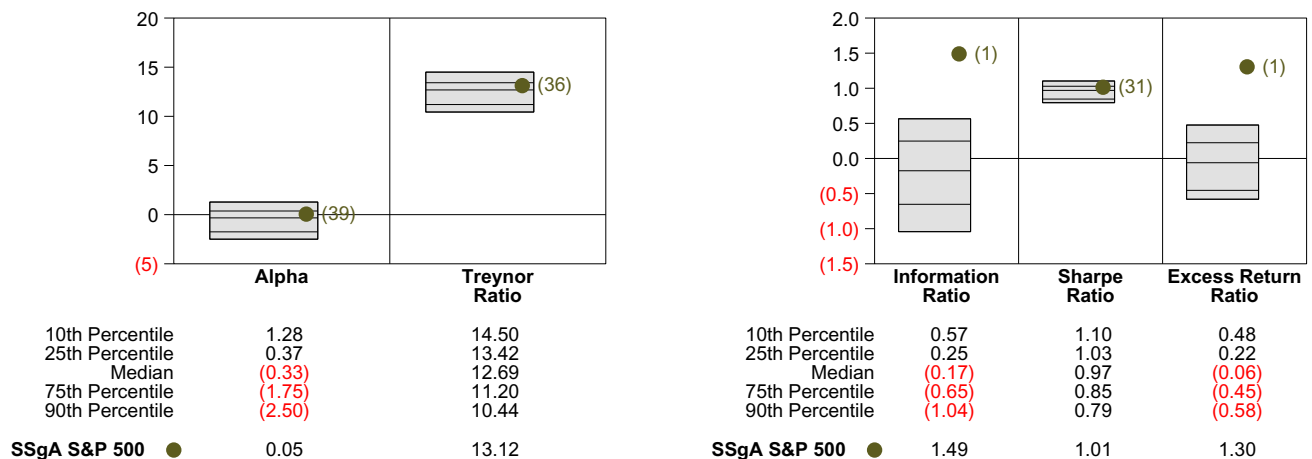
### Performance vs CAI Large Cap Core (Gross)



### Cumulative and Quarterly Relative Return vs S&P 500 Index



### Risk Adjusted Return Measures vs S&P 500 Index Rankings Against CAI Large Cap Core (Gross) Seven Years Ended September 30, 2016

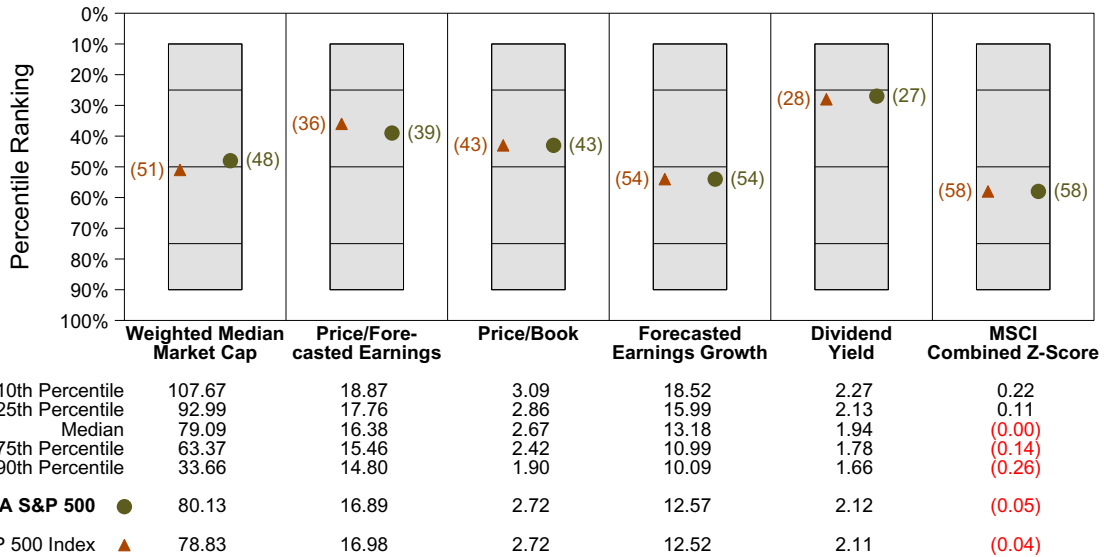


# SSgA S&P 500 Equity Characteristics Analysis Summary

## Portfolio Characteristics

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.

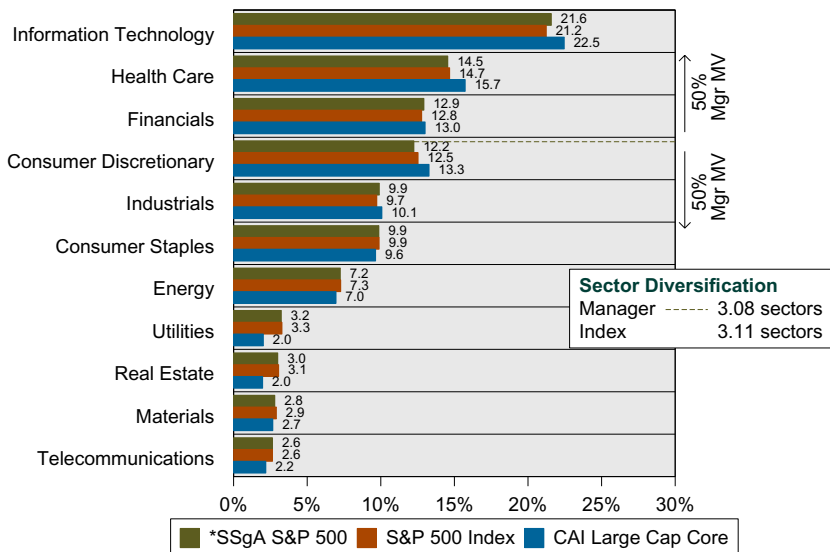
## Portfolio Characteristics Percentile Rankings Rankings Against CAI Large Cap Core as of September 30, 2016



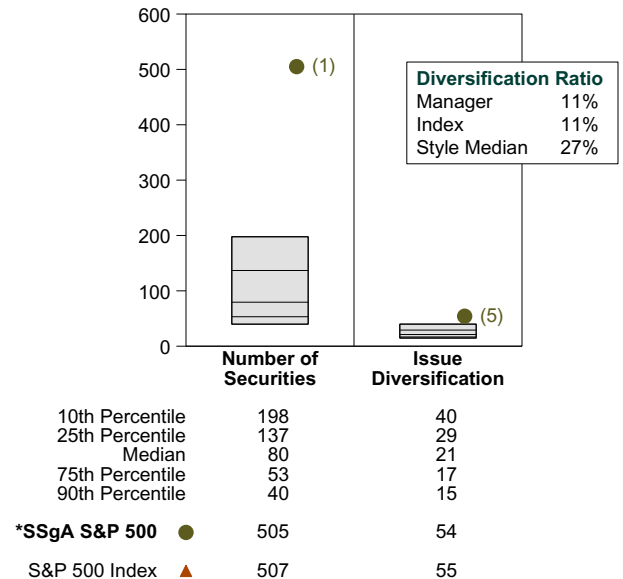
## Sector Weights

The graph below contrasts the manager's sector weights with those of the benchmark and median sector weights across the members of the peer group. The magnitude of sector weight differences from the index and the manager's sector diversification are also shown. Diversification by number and concentration of holdings are also compared to the benchmark and peer group. Issue Diversification represents by count, and Diversification Ratio by percent, the number of holdings that account for half of the portfolio's market value.

### Sector Allocation September 30, 2016



### Diversification September 30, 2016



\*9/30/16 portfolio characteristics generated using most recently available holdings (6/30/16) modified based on a "buy-and-hold" assumption (repriced and adjusted for corporate actions). Analysis is then done using current market and company financial data.



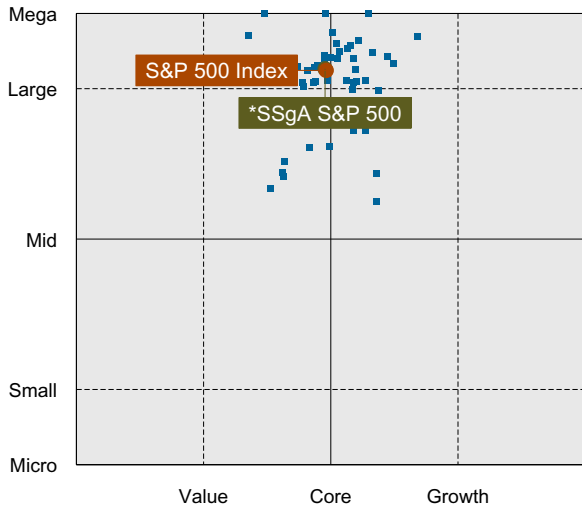
# Current Holdings Based Style Analysis

## SSgA S&P 500

### As of September 30, 2016

This page analyzes the current investment style of a portfolio utilizing a detailed holdings-based style analysis to determine actual exposures to various market capitalization and style segments of the domestic equity market. The market is segmented quarterly by capitalization and style. The capitalization segments are dictated by capitalization decile breakpoints. The style segments are determined using the "Combined Z Score", based on the eight fundamental factors used in the MSCI stock style scoring system. The upper-left style map illustrates the current market capitalization and style score of the portfolio relative to indices and/or peers. The upper-right style exposure matrix displays the current portfolio and index weights and stock counts (in parentheses) in each capitalization/style segment of the market. The middle chart illustrates the total exposures and stock counts in the three style segments, with a legend showing the total growth, value, and "combined Z" (growth - value) scores. The bottom chart exhibits the sector weights as well as the style weights within each sector.

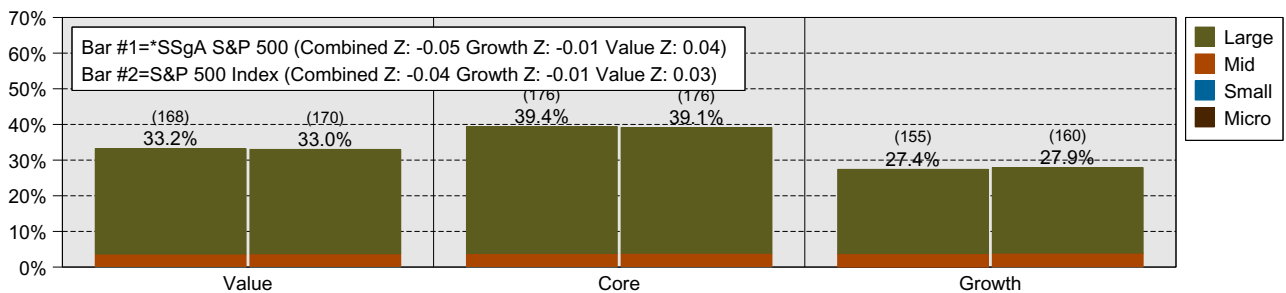
**Style Map vs CAI Large Cap Core Holdings as of September 30, 2016**



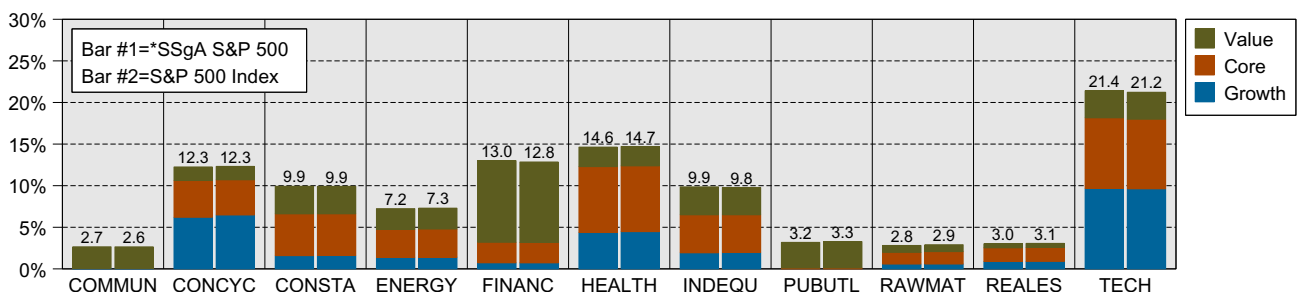
**Style Exposure Matrix Holdings as of September 30, 2016**

	Value	Core	Growth	Total
<b>Large</b>	29.5% (93)	35.6% (101)	23.6% (84)	88.7% (278)
	29.3% (93)	35.2% (100)	24.0% (86)	88.5% (279)
<b>Mid</b>	3.6% (71)	3.8% (73)	3.8% (71)	11.2% (215)
	3.7% (72)	3.8% (74)	3.9% (73)	11.4% (219)
<b>Small</b>	0.1% (4)	0.0% (2)	0.0% (0)	0.1% (6)
	0.1% (5)	0.0% (2)	0.0% (1)	0.1% (8)
<b>Micro</b>	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
<b>Total</b>	33.2% (168)	39.4% (176)	27.4% (155)	100.0% (499)
	33.0% (170)	39.1% (176)	27.9% (160)	100.0% (506)

**Combined Z-Score Style Distribution Holdings as of September 30, 2016**



**Sector Weights Distribution Holdings as of September 30, 2016**



\*9/30/16 portfolio characteristics generated using most recently available holdings (6/30/16) modified based on a "buy-and-hold" assumption (repriced and adjusted for corporate actions). Analysis is then done using current market and company financial data.

# Boston Partners Period Ended September 30, 2016

## Investment Philosophy

Boston Partners attempts to implement a disciplined investment process designed to find undervalued securities issued by companies with sound fundamentals and positive business momentum. Boston Partners was funded 6/27/05. The first full quarter for this portfolio is 3rd quarter 2005.

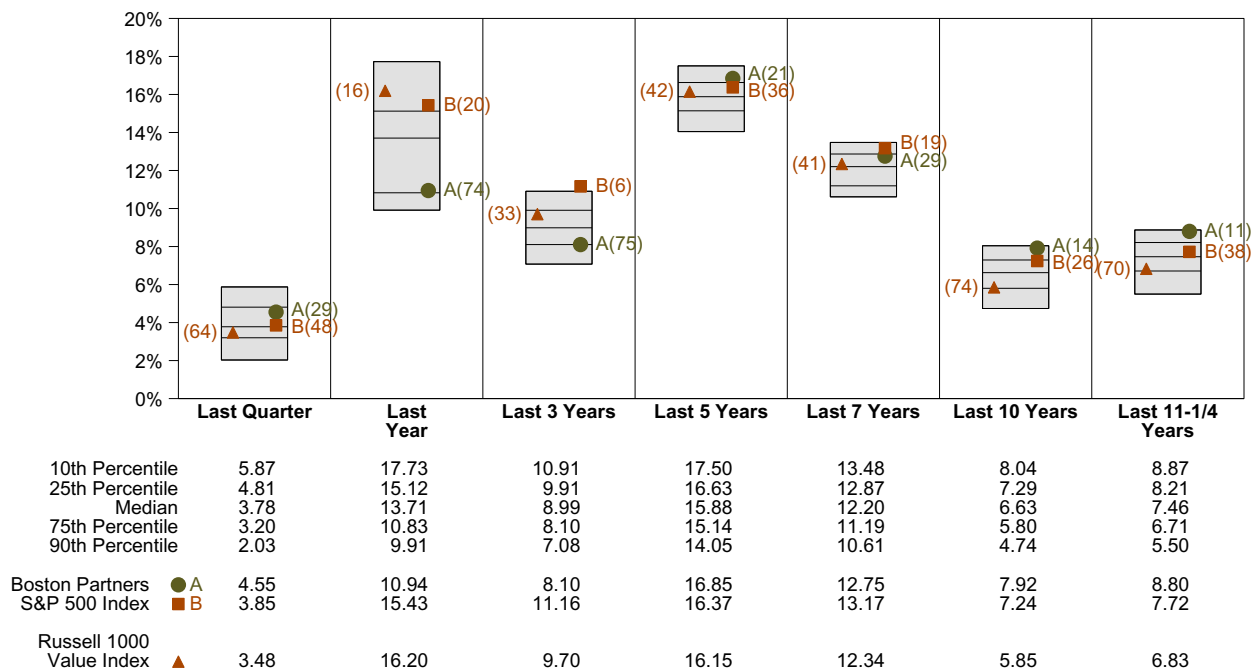
## Quarterly Summary and Highlights

- Boston Partners's portfolio posted a 4.55% return for the quarter placing it in the 29 percentile of the CAI Large Cap Value group for the quarter and in the 74 percentile for the last year.
- Boston Partners's portfolio outperformed the Russell 1000 Value Index by 1.07% for the quarter and underperformed the Russell 1000 Value Index for the year by 5.25%.

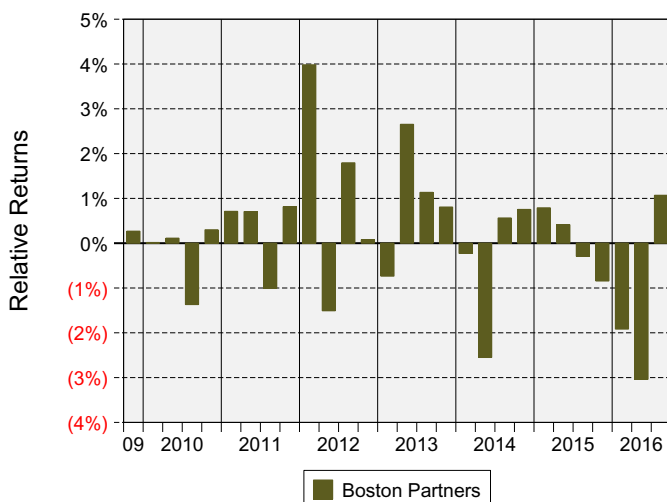
## Quarterly Asset Growth

Beginning Market Value	\$38,934,826
Net New Investment	\$0
Investment Gains/(Losses)	\$1,771,194
Ending Market Value	\$40,706,020

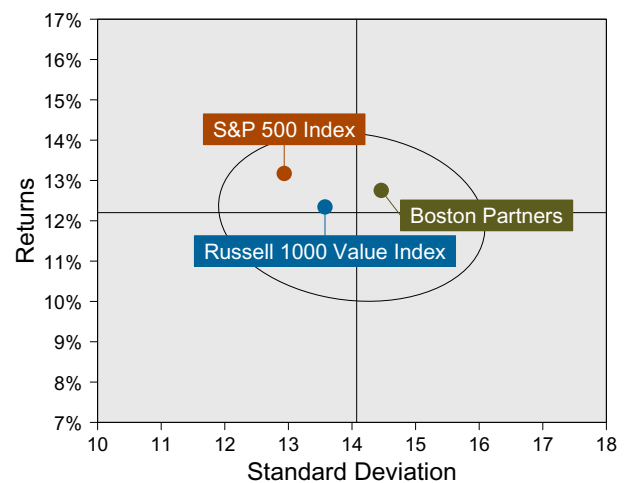
## Performance vs CAI Large Cap Value (Gross)



## Relative Return vs Russell 1000 Value Index



## CAI Large Cap Value (Gross) Annualized Seven Year Risk vs Return

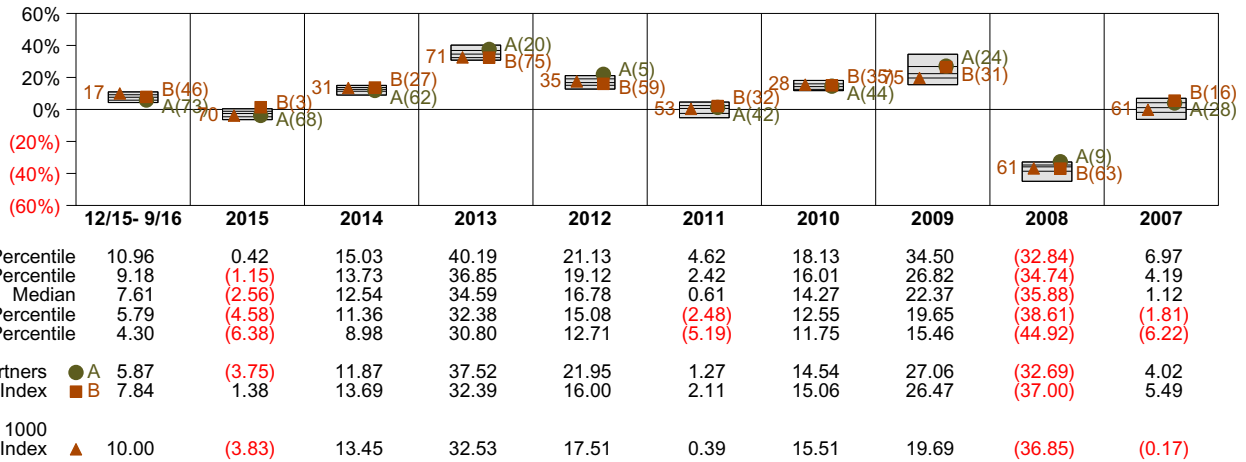


# Boston Partners Return Analysis Summary

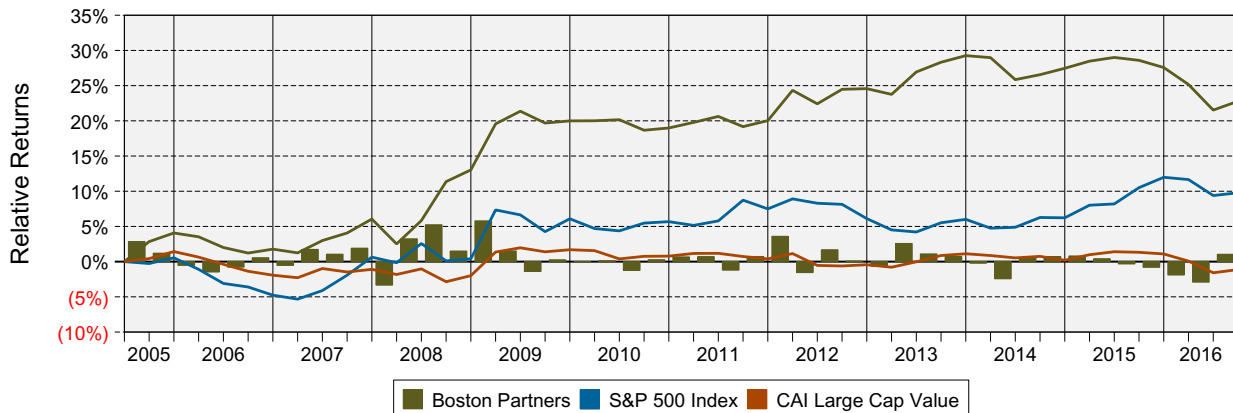
## Return Analysis

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.

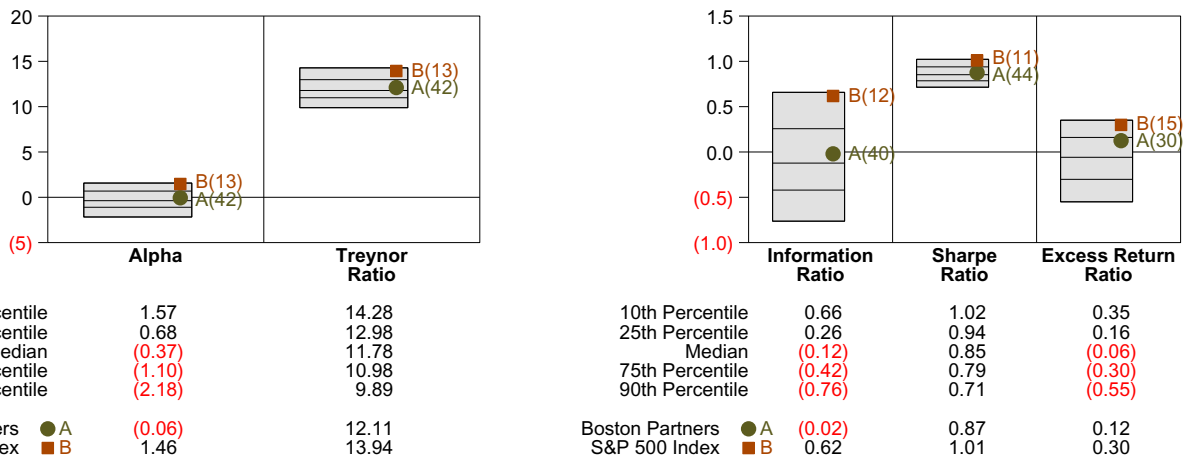
### Performance vs CAI Large Cap Value (Gross)



### Cumulative and Quarterly Relative Return vs Russell 1000 Value Index



### Risk Adjusted Return Measures vs Russell 1000 Value Index Rankings Against CAI Large Cap Value (Gross) Seven Years Ended September 30, 2016

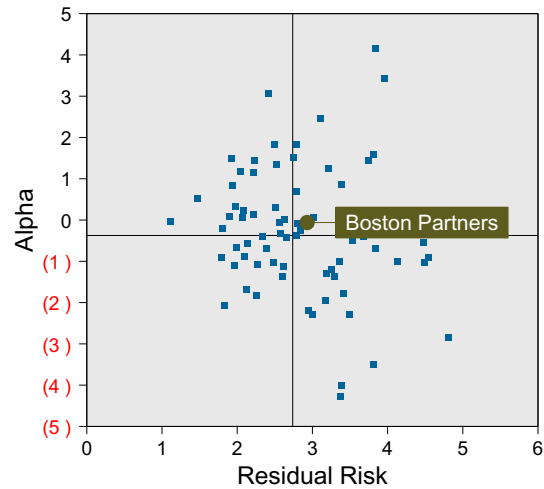
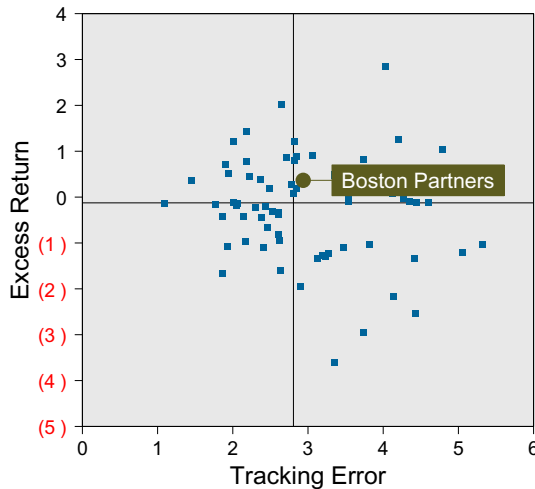


# Boston Partners Risk Analysis Summary

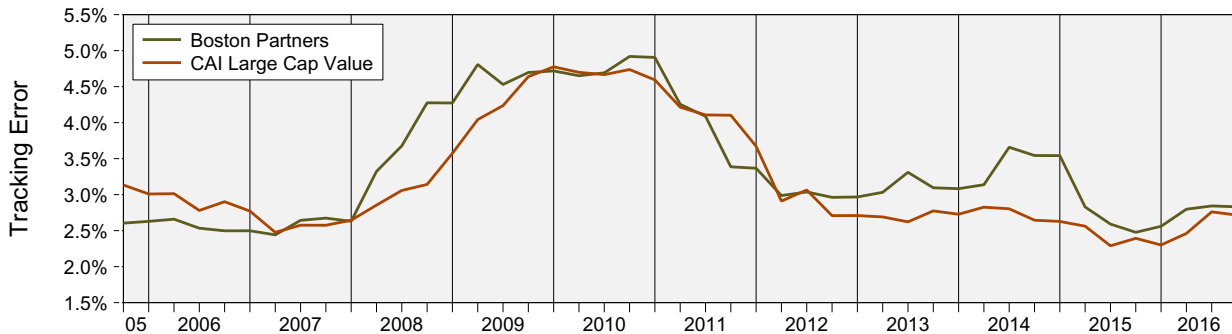
## Risk Analysis

The graphs below analyze the risk or variation of a manager's return pattern. The first scatter chart illustrates the relationship, called Excess Return Ratio, between excess return and tracking error relative to the benchmark. The second scatter chart displays the relationship, sometimes called Information Ratio, between alpha (market-risk or "beta" adjusted return) and residual risk (non-market or "unsystematic" risk). The third chart shows tracking error patterns versus the benchmark over time. The last two charts show the ranking of the manager's risk statistics versus the peer group.

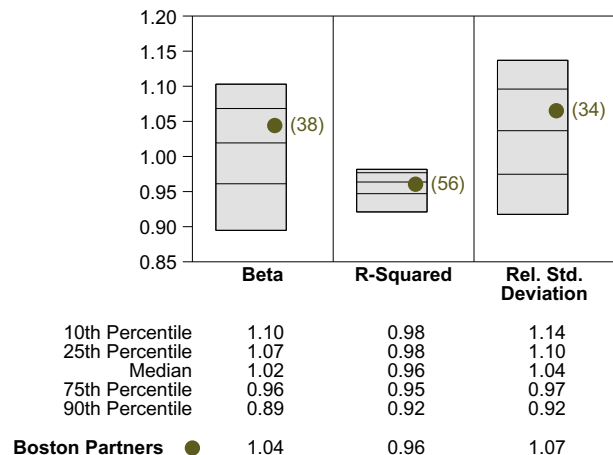
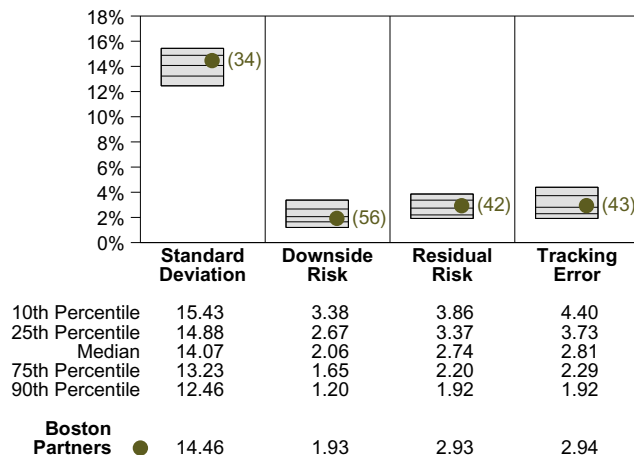
### Risk Analysis vs CAI Large Cap Value (Gross) Seven Years Ended September 30, 2016



### Rolling 12 Quarter Tracking Error vs Russell 1000 Value Index



### Risk Statistics Rankings vs Russell 1000 Value Index Rankings Against CAI Large Cap Value (Gross) Seven Years Ended September 30, 2016

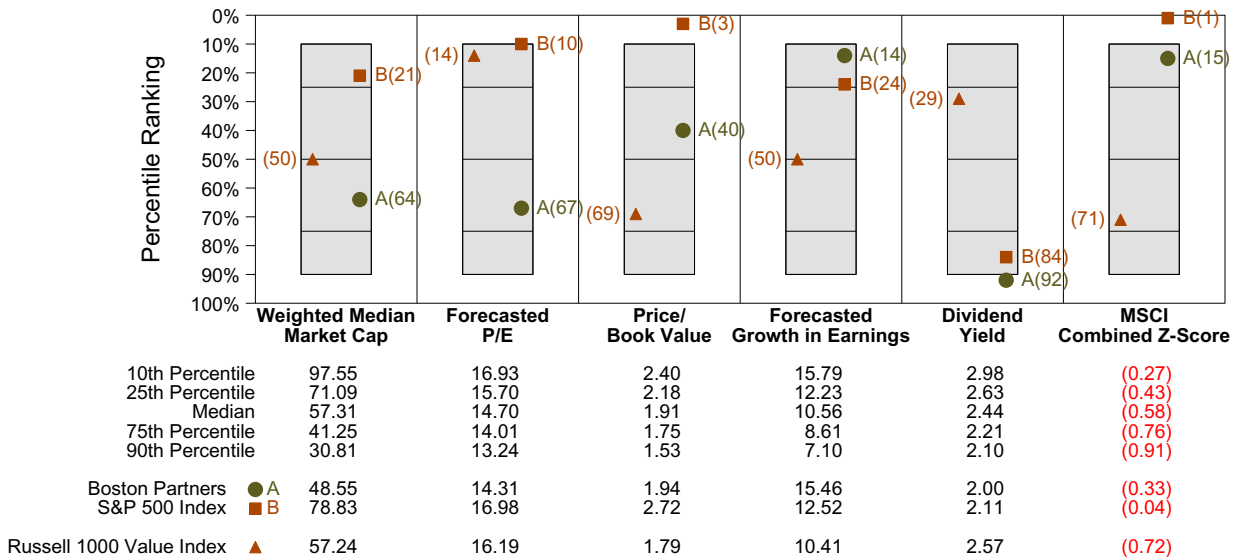


# Boston Partners Equity Characteristics Analysis Summary

## Portfolio Characteristics

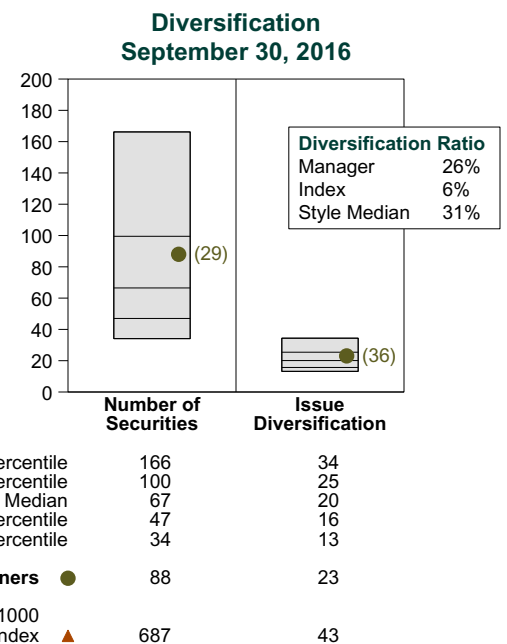
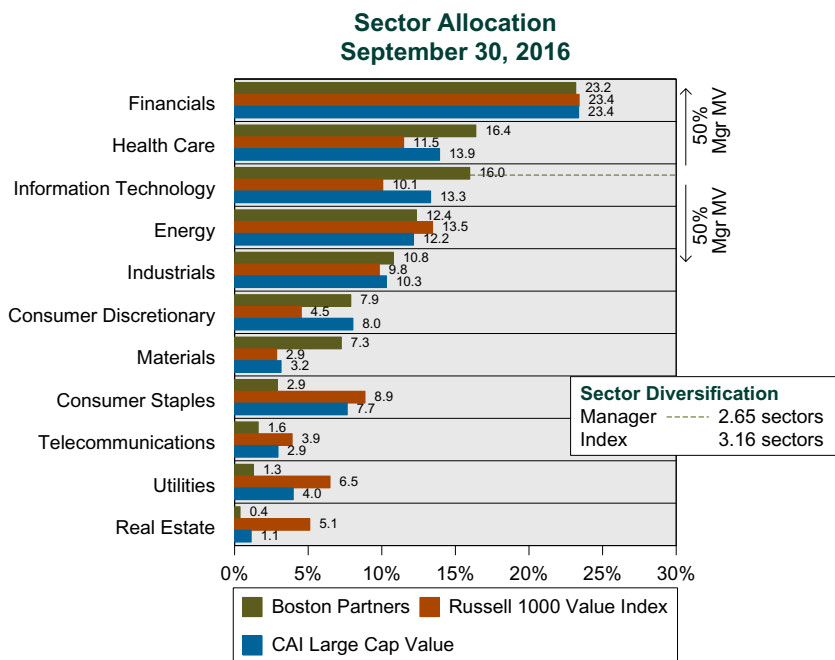
This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.

## Portfolio Characteristics Percentile Rankings Rankings Against CAI Large Cap Value as of September 30, 2016



## Sector Weights

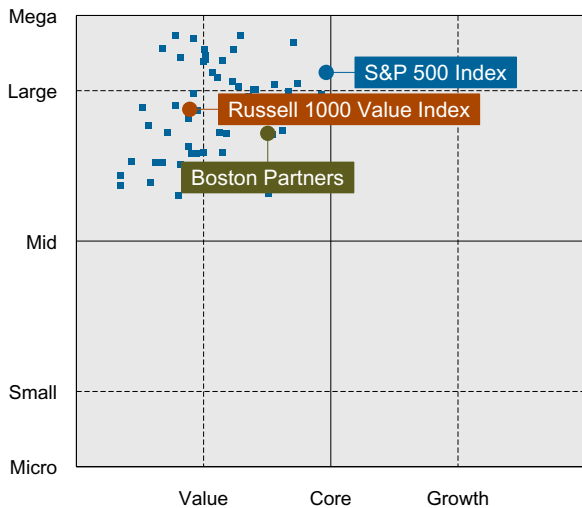
The graph below contrasts the manager's sector weights with those of the benchmark and median sector weights across the members of the peer group. The magnitude of sector weight differences from the index and the manager's sector diversification are also shown. Diversification by number and concentration of holdings are also compared to the benchmark and peer group. Issue Diversification represents by count, and Diversification Ratio by percent, the number of holdings that account for half of the portfolio's market value.



# Current Holdings Based Style Analysis Boston Partners As of September 30, 2016

This page analyzes the current investment style of a portfolio utilizing a detailed holdings-based style analysis to determine actual exposures to various market capitalization and style segments of the domestic equity market. The market is segmented quarterly by capitalization and style. The capitalization segments are dictated by capitalization decile breakpoints. The style segments are determined using the "Combined Z Score", based on the eight fundamental factors used in the MSCI stock style scoring system. The upper-left style map illustrates the current market capitalization and style score of the portfolio relative to indices and/or peers. The upper-right style exposure matrix displays the current portfolio and index weights and stock counts (in parentheses) in each capitalization/style segment of the market. The middle chart illustrates the total exposures and stock counts in the three style segments, with a legend showing the total growth, value, and "combined Z" (growth - value) scores. The bottom chart exhibits the sector weights as well as the style weights within each sector.

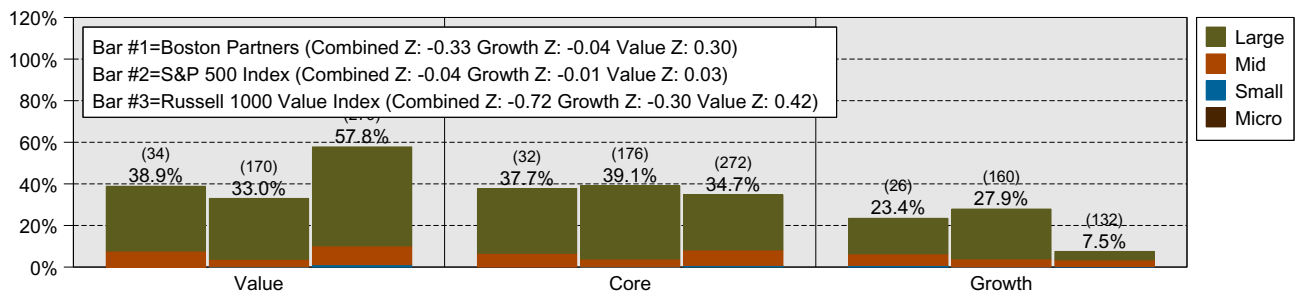
**Style Map vs CAI Large Cap Value Holdings as of September 30, 2016**



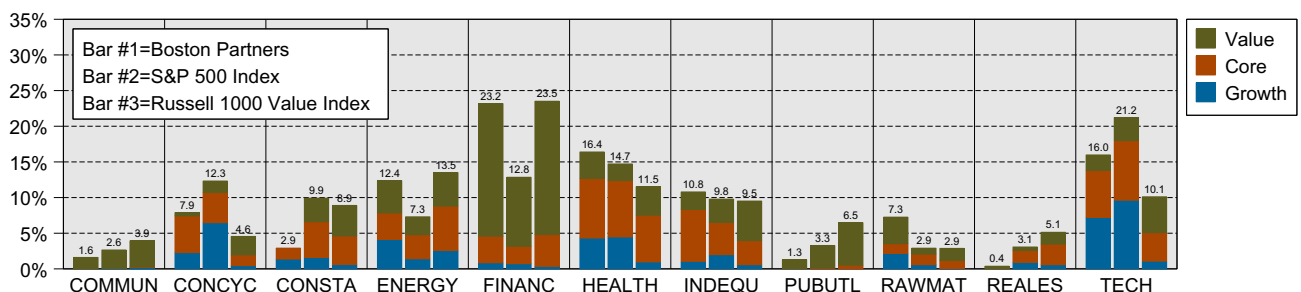
**Style Exposure Matrix Holdings as of September 30, 2016**

	Value	Core	Growth	Total
Large	31.1% (23)	31.1% (21)	17.1% (17)	79.3% (61)
	29.3% (93)	35.2% (100)	24.0% (86)	88.5% (279)
	47.6% (93)	26.5% (69)	4.1% (28)	78.1% (190)
Mid	7.7% (11)	6.6% (11)	5.5% (6)	19.9% (28)
	3.7% (72)	3.8% (74)	3.9% (73)	11.4% (219)
	9.0% (134)	7.4% (158)	3.2% (88)	19.7% (380)
Small	0.0% (0)	0.0% (0)	0.8% (3)	0.8% (3)
	0.1% (5)	0.0% (2)	0.0% (1)	0.1% (8)
	1.1% (52)	0.8% (42)	0.3% (16)	2.2% (110)
Micro	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
	0.0% (0)	0.0% (3)	0.0% (0)	0.0% (3)
<b>Total</b>	<b>38.9% (34)</b>	<b>37.7% (32)</b>	<b>23.4% (26)</b>	<b>100.0% (92)</b>
	<b>33.0% (170)</b>	<b>39.1% (176)</b>	<b>27.9% (160)</b>	<b>100.0% (506)</b>
	<b>57.8% (279)</b>	<b>34.7% (272)</b>	<b>7.5% (132)</b>	<b>100.0% (683)</b>

**Combined Z-Score Style Distribution Holdings as of September 30, 2016**



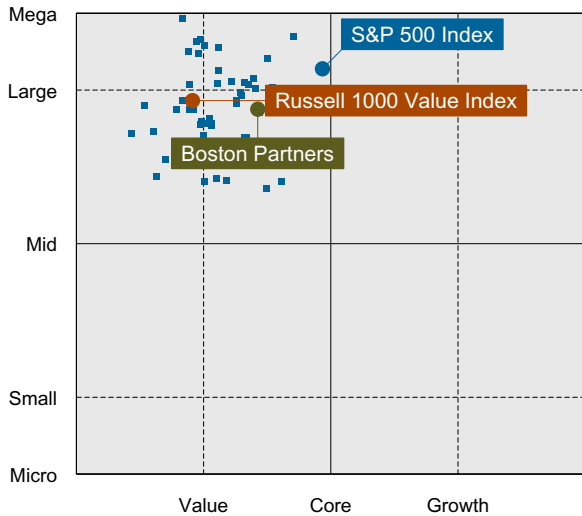
**Sector Weights Distribution Holdings as of September 30, 2016**



# Historical Holdings Based Style Analysis Boston Partners For Three Years Ended September 30, 2016

This page analyzes the historical investment style of a portfolio utilizing a detailed holdings-based style analysis to determine average actual exposures to various market capitalization and style segments of the domestic equity market. The market is segmented quarterly by capitalization and style. The capitalization segments are dictated by capitalization decile breakpoints. The style segments are determined using the "Combined Z Score", based on the eight fundamental factors used in the MSCI stock style scoring system. The upper-left style map illustrates the average historical market capitalization and style score of the portfolio relative to indices and/or peers. The upper-right style exposure matrix displays the average historical portfolio and index weights and stock counts (in parentheses) in each capitalization/style segment of the market. The next two style exposure charts illustrate the actual quarterly cap/style and style only segment exposures of the portfolio through history.

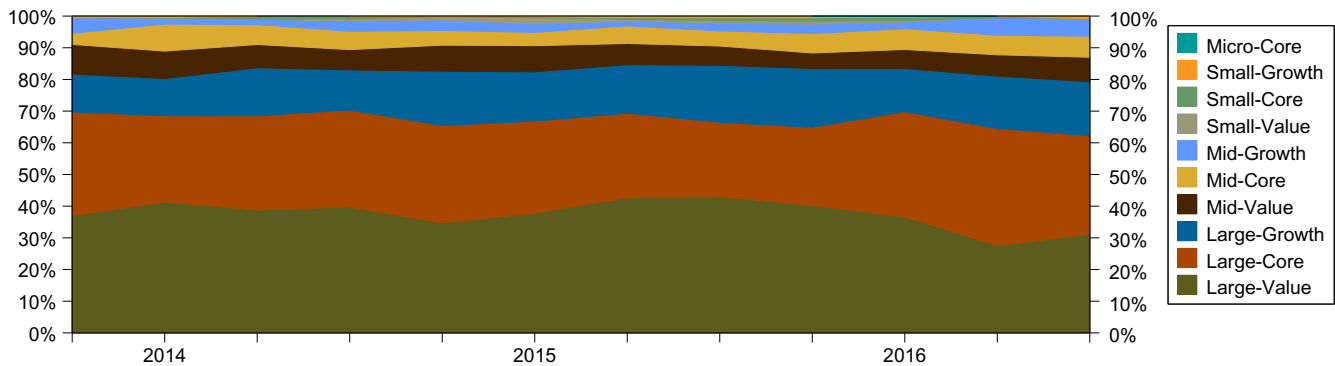
**Average Style Map vs CAI Large Cap Value Holdings for Three Years Ended September 30, 2016**



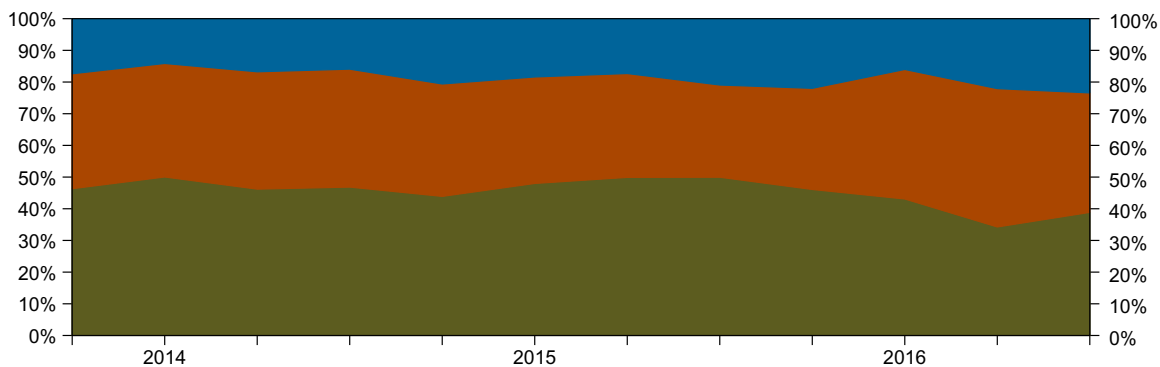
**Average Style Exposure Matrix Holdings for Three Years Ended September 30, 2016**

	Value	Core	Growth	Total
Large	37.5% (24)	29.7% (23)	15.3% (14)	82.5% (61)
	31.4% (92)	28.8% (98)	28.8% (96)	89.0% (286)
	50.1% (88)	23.2% (72)	5.2% (31)	78.5% (191)
Mid	7.2% (11)	5.7% (9)	3.1% (5)	16.1% (25)
	4.2% (86)	3.7% (74)	3.0% (52)	10.9% (212)
	10.7% (166)	6.2% (138)	2.1% (56)	19.0% (360)
Small	0.5% (2)	0.5% (2)	0.3% (1)	1.4% (5)
	0.0% (3)	0.0% (1)	0.0% (0)	0.1% (4)
	1.4% (62)	0.9% (50)	0.2% (14)	2.6% (126)
Micro	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
	0.0% (0)	0.0% (2)	0.0% (0)	0.0% (2)
<b>Total</b>	<b>45.3% (37)</b>	<b>36.0% (34)</b>	<b>18.8% (20)</b>	<b>100.0% (91)</b>
	<b>35.7% (181)</b>	<b>32.5% (173)</b>	<b>31.8% (148)</b>	<b>100.0% (502)</b>
	<b>62.2% (316)</b>	<b>30.3% (262)</b>	<b>7.5% (101)</b>	<b>100.0% (679)</b>

## Boston Partners Historical Cap/Style Exposures



## Boston Partners Historical Style Only Exposures

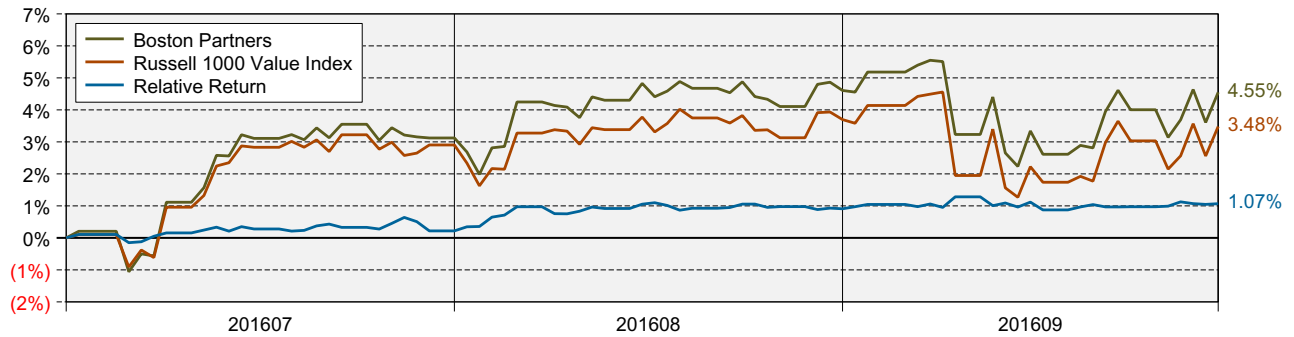


# Boston Partners vs Russell 1000 Value Index Domestic Equity Daily Performance Attribution One Quarter Ended September 30, 2016

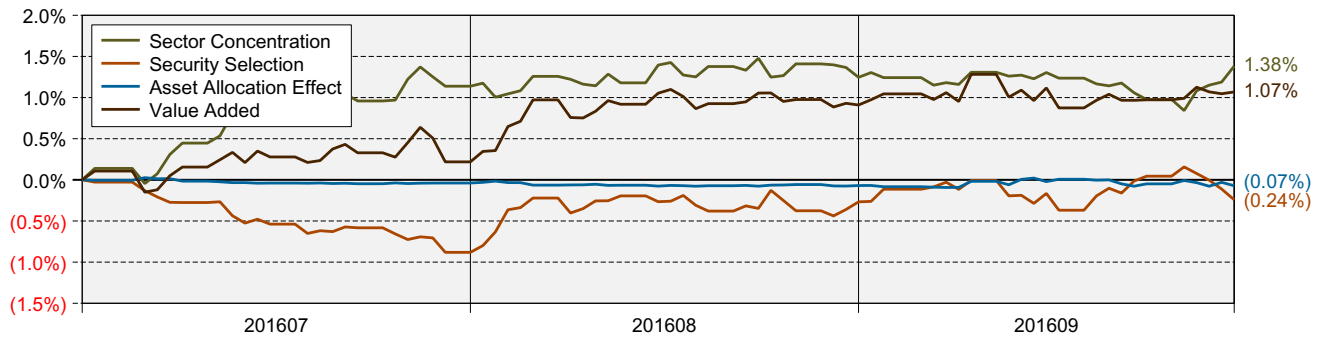
## Return Sources and Timing

The charts below illustrate the timing and cumulative paths of the manager's performance, as well as attributing relative performance to three sources: Sector Concentration, Security Selection, and Asset Allocation. The first chart shows the cumulative absolute return paths for the manager and index. The second chart shows the cumulative relative return path of the manager and the attributed sources of that value-added. The bottom table breaks the annualized attribution factors down to the sector level for more insight into sources of return.

## Cumulative Manager and Benchmark Returns



## Cumulative Attribution Effects vs. Russell 1000 Value Index



## Attribution Effects by Sector vs. Russell 1000 Value Index One Quarter Ended September 30, 2016

Sector	Manager Eff Weight	Index Eff Weight	Manager Return	Index Return	Sector Concentration	Security Selection	Asset Allocation
Real Estate	0.12%	1.73%	4.57%	(1.27)%	0.05%	0.02%	-
Miscellaneous	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-
Consumer Discretionary	8.55%	4.76%	3.73%	6.02%	0.13%	(0.22)%	-
Consumer Staples	2.53%	8.94%	3.34%	0.09%	0.23%	0.07%	-
Energy	12.17%	13.13%	1.74%	2.25%	0.05%	(0.07)%	-
Financials	22.95%	26.59%	6.53%	5.05%	(0.22)%	0.34%	-
Health Care	17.18%	11.46%	(1.84)%	0.98%	(0.12)%	(0.51)%	-
Industrials	10.58%	9.84%	4.56%	5.40%	0.03%	(0.10)%	-
Information Technology	14.54%	9.73%	13.95%	13.19%	0.45%	0.09%	-
Materials	7.98%	2.87%	5.42%	4.61%	0.07%	0.05%	-
Telecommunications	2.17%	4.11%	(6.03)%	(4.84)%	0.17%	(0.03)%	-
Utilities	1.22%	6.83%	3.89%	(5.72)%	0.54%	0.12%	-
Non Equity	2.53%	0.00%	-	-	-	-	(0.07)%
<b>Total</b>	-	-	<b>4.55%</b>	<b>3.48%</b>	<b>1.38%</b>	<b>(0.24)%</b>	<b>(0.07)%</b>

<b>Manager Return</b>	=	<b>Index Return</b>	+	<b>Sector Concentration</b>	+	<b>Security Selection</b>	+	<b>Asset Allocation</b>
<b>4.55%</b>		<b>3.48%</b>		<b>1.38%</b>		<b>(0.24)%</b>		<b>(0.07)%</b>

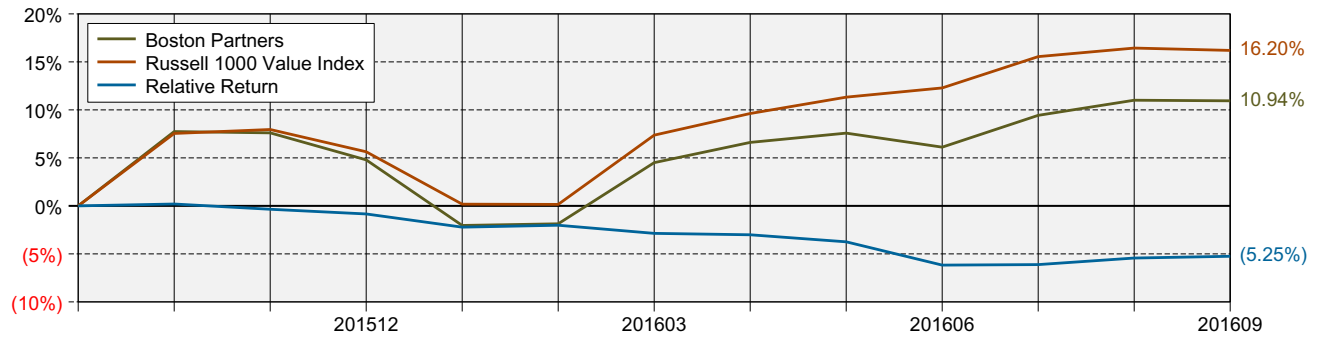


# Boston Partners vs Russell 1000 Value Index Domestic Equity Daily Performance Attribution One Year Ended September 30, 2016

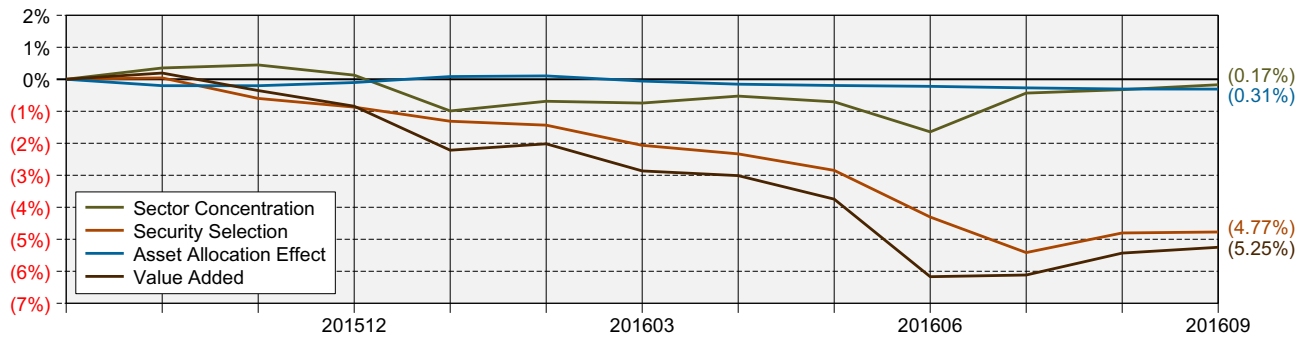
## Return Sources and Timing

The charts below illustrate the timing and cumulative paths of the manager's performance, as well as attributing relative performance to three sources: Sector Concentration, Security Selection, and Asset Allocation. The first chart shows the cumulative absolute return paths for the manager and index. The second chart shows the cumulative relative return path of the manager and the attributed sources of that value-added. The bottom table breaks the annualized attribution factors down to the sector level for more insight into sources of return.

## Cumulative Manager and Benchmark Returns



## Cumulative Attribution Effects vs. Russell 1000 Value Index



## Attribution Effects by Sector vs. Russell 1000 Value Index One Year Ended September 30, 2016

Sector	Manager Eff Weight	Index Eff Weight	Manager Return	Index Return	Sector Concentration	Security Selection	Asset Allocation
Real Estate	0.03%	0.43%	4.57%	(1.27)%	0.06%	0.02%	-
Miscellaneous	0.00%	0.00%	(0.06)%	0.00%	(0.00)%	0.00%	-
Consumer Discretionary	9.42%	5.10%	3.99%	5.06%	(0.53)%	(0.08)%	-
Consumer Staples	2.20%	7.61%	29.71%	18.65%	(0.12)%	0.27%	-
Energy	11.26%	12.97%	10.99%	18.16%	(0.14)%	(0.79)%	-
Financials	27.84%	28.62%	8.54%	7.02%	(0.20)%	0.37%	-
Health Care	16.61%	11.72%	8.75%	17.07%	(0.02)%	(1.41)%	-
Industrials	9.51%	10.11%	6.37%	25.62%	(0.04)%	(1.69)%	-
Information Technology	13.71%	10.80%	21.30%	29.00%	0.48%	(0.93)%	-
Materials	6.13%	2.77%	16.25%	30.37%	0.42%	(0.69)%	-
Telecommunications	2.16%	3.28%	24.62%	26.07%	0.03%	(0.05)%	-
Utilities	1.12%	6.58%	36.52%	18.08%	(0.12)%	0.20%	-
Non Equity	2.79%	0.00%	-	-	-	-	(0.31)%
Total	-	-	10.94%	16.20%	(0.17)%	(4.77)%	(0.31)%

<b>Manager Return</b>	=	<b>Index Return</b>	+	<b>Sector Concentration</b>	+	<b>Security Selection</b>	+	<b>Asset Allocation</b>
10.94%		16.20%		(0.17%)		(4.77%)		(0.31%)

## Boston Partners vs Russell 1000 Value Index Domestic Equity Top 10 Contribution Holdings One Quarter Ended September 30, 2016

### Manager Holdings with Largest (+ or -) Contribution to Performance

Issue	Sector	Manager Eff Wt	Days Held	Index Eff Wt	Manager Return	Index Return	Contrib Manager Perf	Contrib Excess Return
Ebay	Information Technology	1.22%	92	-	40.54%	-	0.41%	0.37%
Bank Amer Corp	Financials	2.44%	92	1.45%	18.35%	18.48%	0.40%	0.12%
JPMorgan Chase & Co	Financials	4.25%	92	2.26%	8.00%	8.00%	0.33%	0.09%
Hewlett Packard Enterprise Co	Information Technology	1.10%	92	0.34%	24.52%	24.52%	0.25%	0.15%
Merck & Co Inc	Health Care	2.57%	92	1.59%	9.14%	9.14%	0.23%	0.05%
Eog Resources	Energy	1.47%	92	0.40%	16.37%	16.16%	0.22%	0.09%
McKesson Corp	Health Care	2.13%	92	-	(10.52)%	-	(0.21)%	(0.29)%
Alphabet Inc Cl A	Information Technology	1.64%	92	-	13.63%	-	0.20%	0.14%
General Dynamics Corp	Industrials	1.78%	92	0.20%	11.43%	11.43%	0.20%	0.12%
Apple Inc	Information Technology	1.02%	92	0.45%	18.62%	18.89%	0.18%	0.08%

### Index Holdings with Largest (+ or -) Contribution to Performance

Issue	Sector	Manager Eff Wt	Days Held	Index Eff Wt	Manager Return	Index Return	Contrib Index Perf	Contrib Excess Return
Bank Amer Corp	Financials	2.44%	92	1.45%	18.35%	18.48%	0.25%	0.12%
Exxon Mobil Corp	Energy	-	-	3.60%	-	(6.08)%	(0.23)%	0.36%
Intel Corp	Information Technology	-	-	1.43%	-	15.97%	0.22%	(0.17)%
Qualcomm Inc	Information Technology	-	-	0.67%	-	28.95%	0.18%	(0.15)%
JPMorgan Chase & Co	Financials	4.25%	92	2.26%	8.00%	8.00%	0.17%	0.09%
Cisco Sys Inc	Information Technology	-	-	1.46%	-	11.58%	0.16%	(0.11)%
Procter & Gamble Co	Consumer Staples	-	-	2.21%	-	6.83%	0.15%	(0.07)%
Citigroup Inc	Financials	1.61%	92	1.27%	11.73%	11.82%	0.14%	0.03%
Merck & Co Inc	Health Care	2.57%	92	1.59%	9.14%	9.14%	0.14%	0.05%
At&t Inc	Telecommunications	-	-	2.52%	-	(4.97)%	(0.12)%	0.21%

### Positions with Largest Positive Contribution to Excess Return

Issue	Sector	Manager Eff Wt	Days Held	Index Eff Wt	Manager Return	Index Return	Contrib Manager Perf	Contrib Excess Return
Ebay	Information Technology	1.22%	92	-	40.54%	-	0.41%	0.37%
Exxon Mobil Corp	Energy	-	-	3.60%	-	(6.08)%	-	0.36%
At&t Inc	Telecommunications	-	-	2.52%	-	(4.97)%	-	0.21%
General Electric Co	Industrials	-	-	2.24%	-	(5.18)%	-	0.20%
Wells Fargo & Co New	Financials	-	-	2.14%	-	(5.70)%	-	0.19%
Hewlett Packard Enterprise Co	Information Technology	1.10%	92	0.34%	24.52%	24.52%	0.25%	0.15%
Alphabet Inc Cl A	Information Technology	1.64%	92	-	13.63%	-	0.20%	0.14%
Flextronics Intl Ltd Ord	Information Technology	1.11%	92	-	15.44%	-	0.16%	0.13%
Pfizer	Health Care	-	-	1.92%	-	(2.99)%	-	0.12%
General Dynamics Corp	Industrials	1.78%	92	0.20%	11.43%	11.43%	0.20%	0.12%

### Positions with Largest Negative Contribution to Excess Return

Issue	Sector	Manager Eff Wt	Days Held	Index Eff Wt	Manager Return	Index Return	Contrib Manager Perf	Contrib Excess Return
McKesson Corp	Health Care	2.13%	92	-	(10.52)%	-	(0.21)%	(0.29)%
Intel Corp	Information Technology	-	-	1.43%	-	15.97%	-	(0.17)%
Qualcomm Inc	Information Technology	-	-	0.67%	-	28.95%	-	(0.15)%
Express Scripts Hldg Co	Health Care	1.28%	92	0.05%	(6.95)%	(6.95)%	(0.09)%	(0.13)%
Sanofi Sponsored Adr	Health Care	1.01%	92	-	(8.70)%	-	(0.09)%	(0.12)%
Gilead Sciences	Health Care	1.47%	92	-	(5.06)%	-	(0.09)%	(0.12)%
Cisco Sys Inc	Information Technology	-	-	1.46%	-	11.58%	-	(0.11)%
Johnson & Johnson	Health Care	4.74%	92	2.67%	(1.97)%	(1.96)%	(0.09)%	(0.11)%
Verizon Communications Inc	Telecommunications	2.12%	92	1.07%	(6.03)%	(5.98)%	(0.13)%	(0.11)%
Barrick Gold Corp	Materials	0.48%	92	-	(16.55)%	-	(0.09)%	(0.10)%

# Atlanta Capital Period Ended September 30, 2016

## Investment Philosophy

Atlanta believes that high quality companies produce consistently increasing earnings and dividends, thereby providing attractive returns with moderate risk over the long-term. Performance prior to inception on 6/30/2010 is linked to the composite strategy.

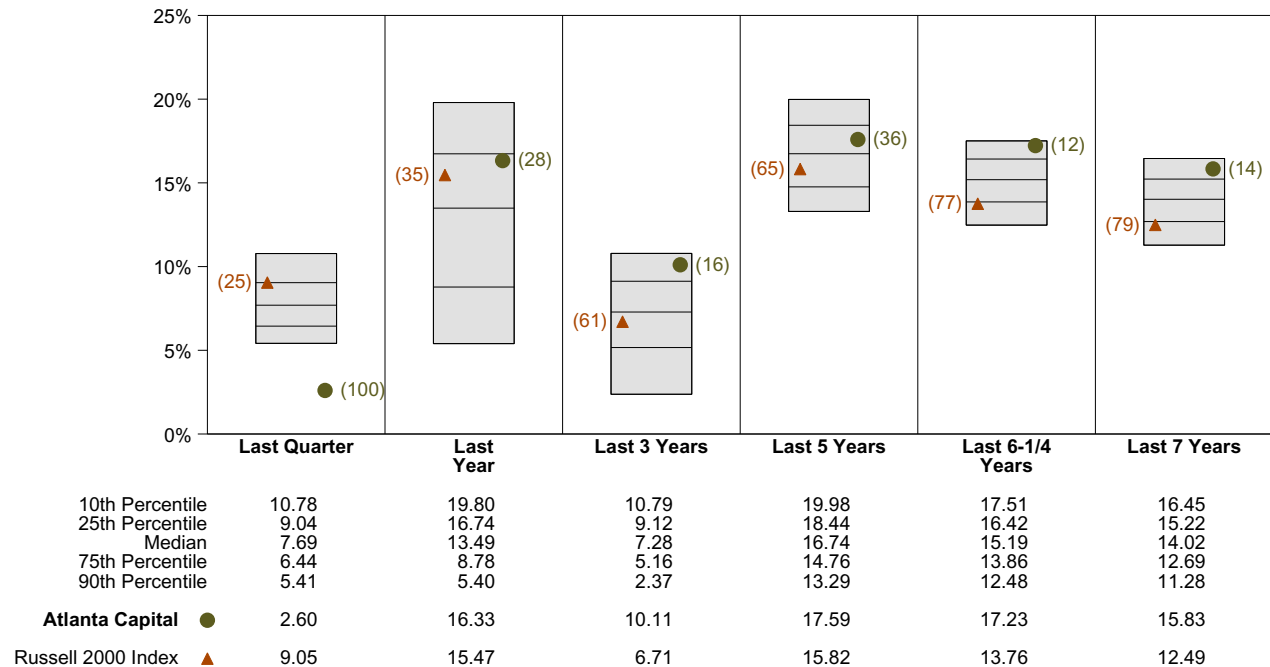
## Quarterly Summary and Highlights

- Atlanta Capital's portfolio posted a 2.60% return for the quarter placing it in the 100 percentile of the CAI Small Capitalization group for the quarter and in the 28 percentile for the last year.
- Atlanta Capital's portfolio underperformed the Russell 2000 Index by 6.45% for the quarter and outperformed the Russell 2000 Index for the year by 0.86%.

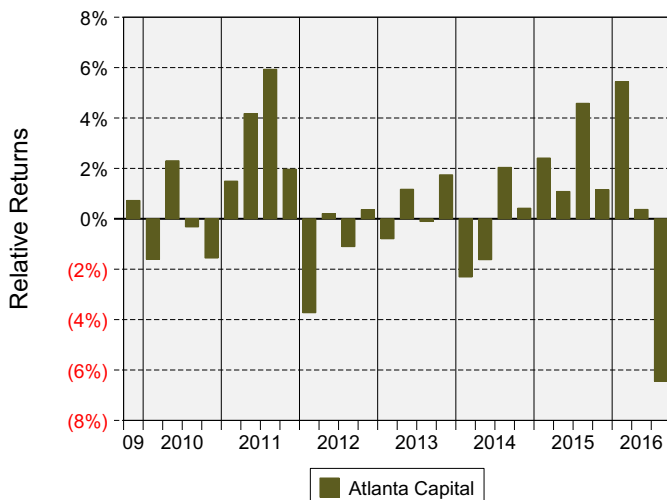
## Quarterly Asset Growth

Beginning Market Value	\$21,950,305
Net New Investment	\$-260,205
Investment Gains/(Losses)	\$570,144
Ending Market Value	\$22,260,244

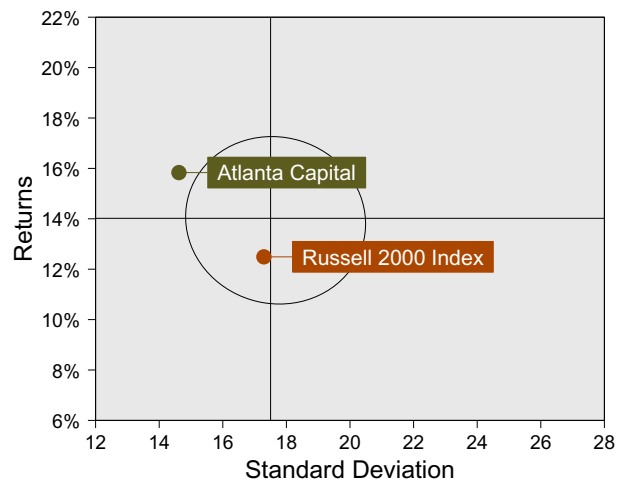
## Performance vs CAI Small Capitalization (Gross)



## Relative Return vs Russell 2000 Index



## CAI Small Capitalization (Gross) Annualized Seven Year Risk vs Return

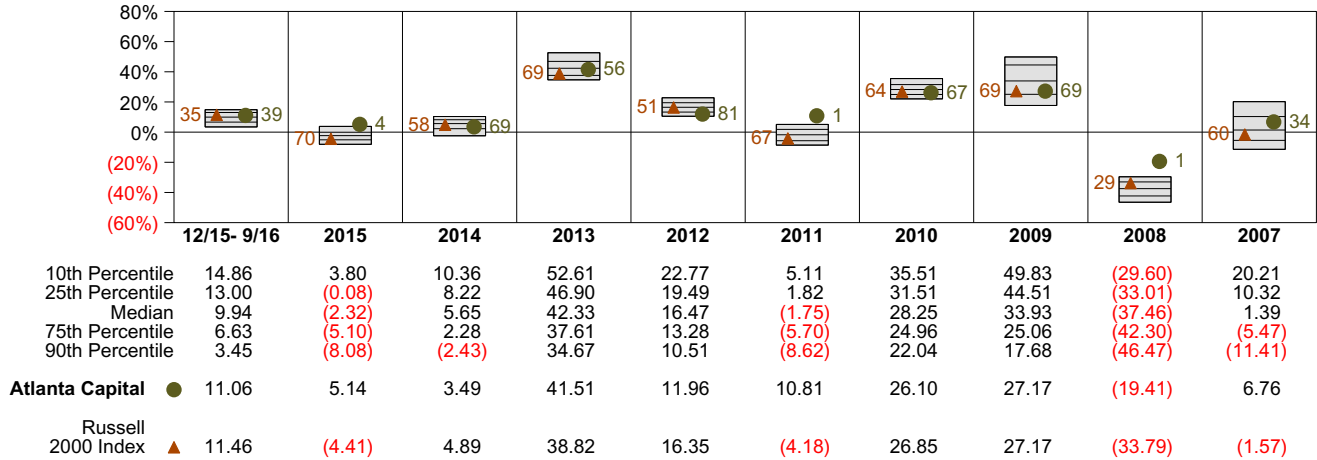


# Atlanta Capital Return Analysis Summary

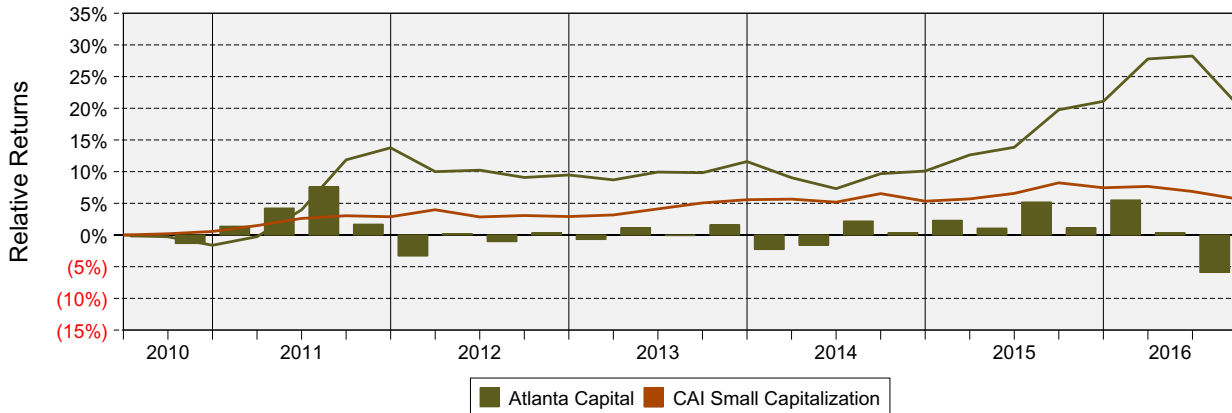
## Return Analysis

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.

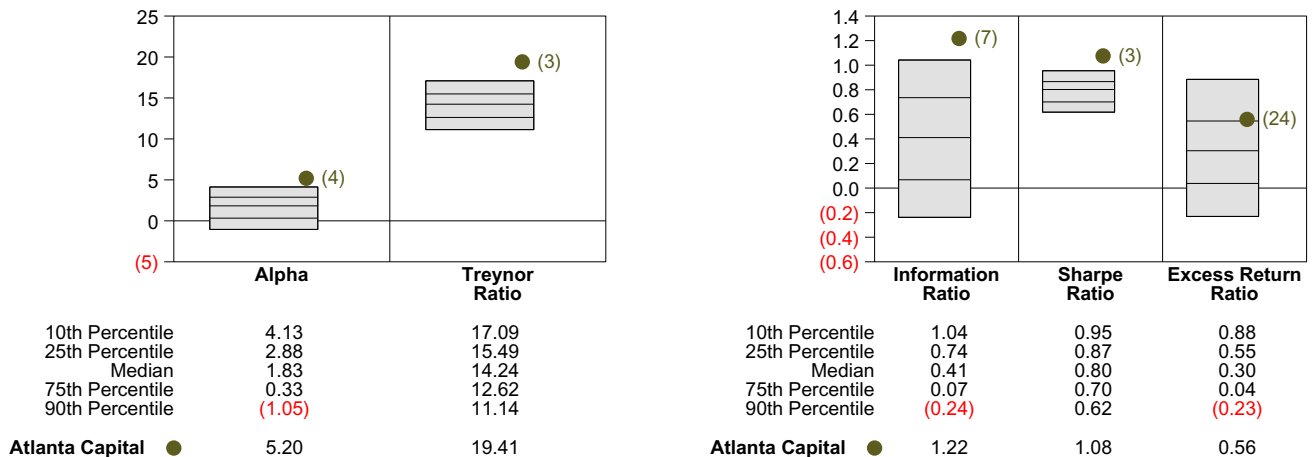
### Performance vs CAI Small Capitalization (Gross)



### Cumulative and Quarterly Relative Return vs Russell 2000 Index



### Risk Adjusted Return Measures vs Russell 2000 Index Rankings Against CAI Small Capitalization (Gross) Seven Years Ended September 30, 2016

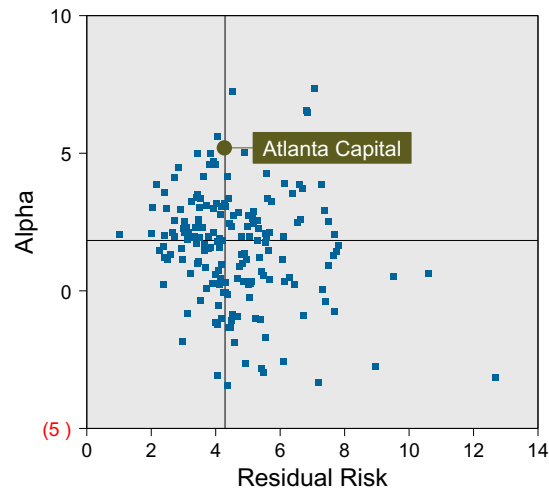
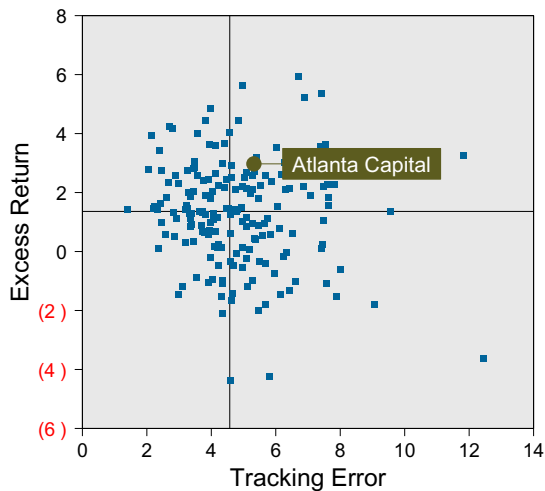


# Atlanta Capital Risk Analysis Summary

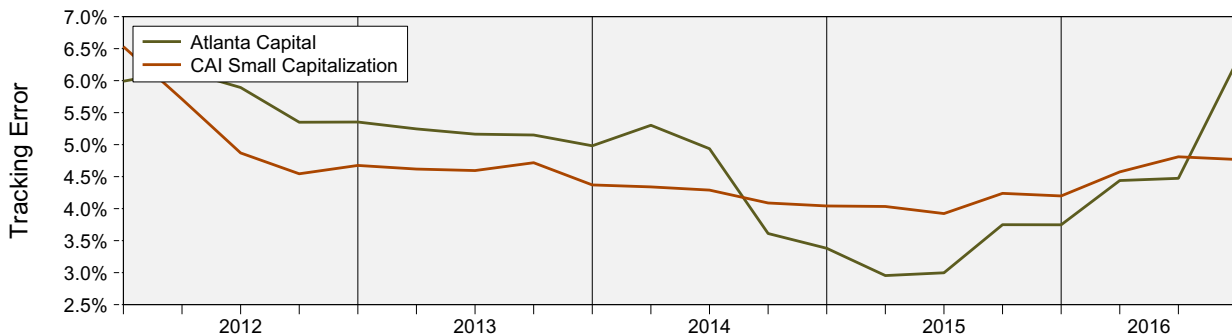
## Risk Analysis

The graphs below analyze the risk or variation of a manager's return pattern. The first scatter chart illustrates the relationship, called Excess Return Ratio, between excess return and tracking error relative to the benchmark. The second scatter chart displays the relationship, sometimes called Information Ratio, between alpha (market-risk or "beta" adjusted return) and residual risk (non-market or "unsystematic" risk). The third chart shows tracking error patterns versus the benchmark over time. The last two charts show the ranking of the manager's risk statistics versus the peer group.

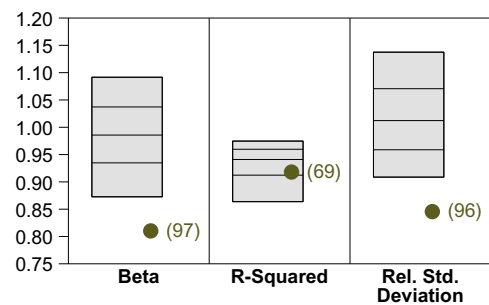
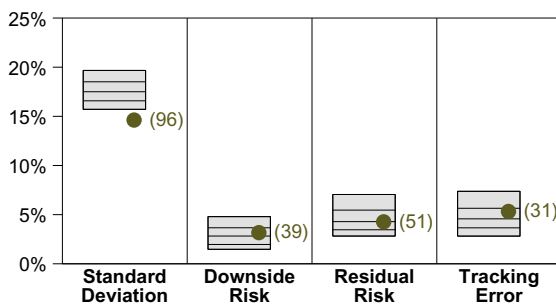
### Risk Analysis vs CAI Small Capitalization (Gross) Seven Years Ended September 30, 2016



### Rolling 12 Quarter Tracking Error vs Russell 2000 Index



### Risk Statistics Rankings vs Russell 2000 Index Rankings Against CAI Small Capitalization (Gross) Seven Years Ended September 30, 2016



	Standard Deviation	Downside Risk	Residual Risk	Tracking Error
10th Percentile	19.67	4.80	7.05	7.37
25th Percentile	18.51	3.66	5.46	5.65
Median	17.50	2.82	4.29	4.57
75th Percentile	16.58	1.97	3.46	3.66
90th Percentile	15.71	1.47	2.82	2.82

	Beta	R-Squared	Rel. Std. Deviation
10th Percentile	1.09	0.97	1.14
25th Percentile	1.04	0.96	1.07
Median	0.99	0.94	1.01
75th Percentile	0.93	0.91	0.96
90th Percentile	0.87	0.86	0.91

**Atlanta Capital** ● 14.62    3.17    4.27    5.32

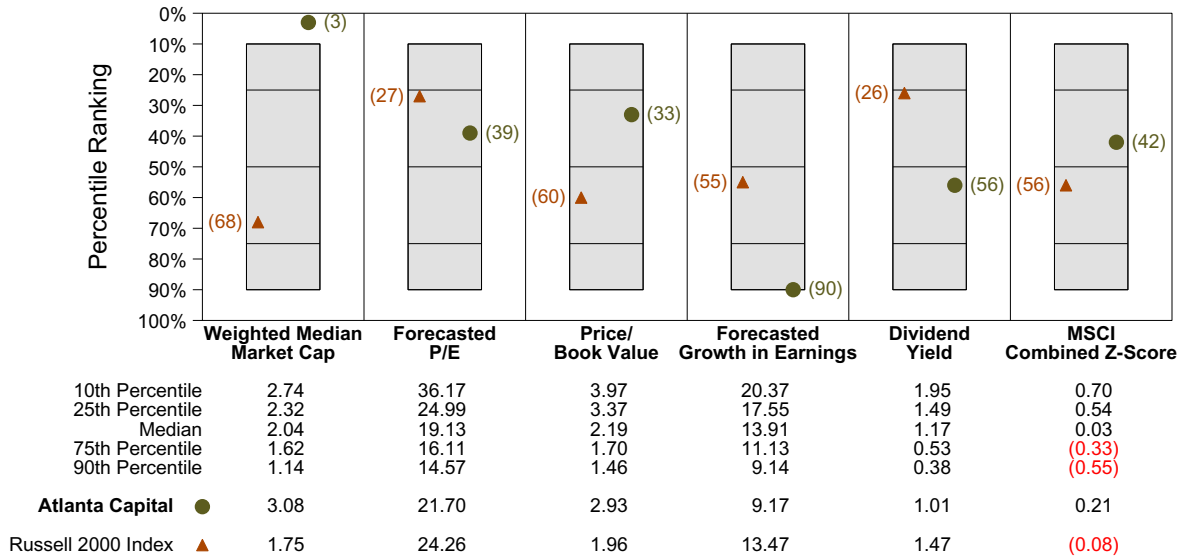
**Atlanta Capital** ● 0.81    0.92    0.85

# Atlanta Capital Equity Characteristics Analysis Summary

## Portfolio Characteristics

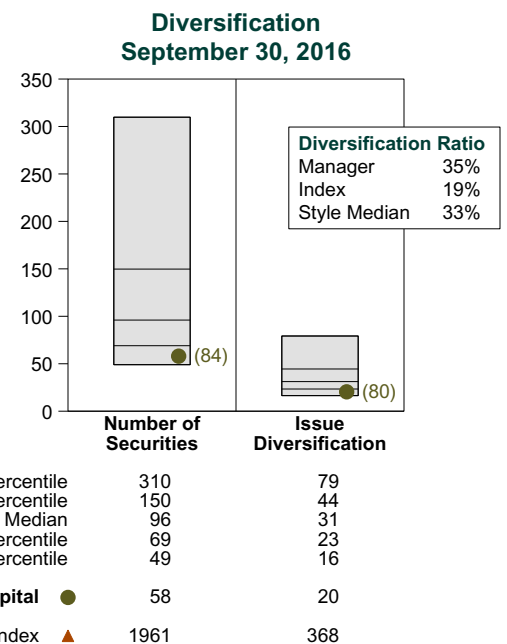
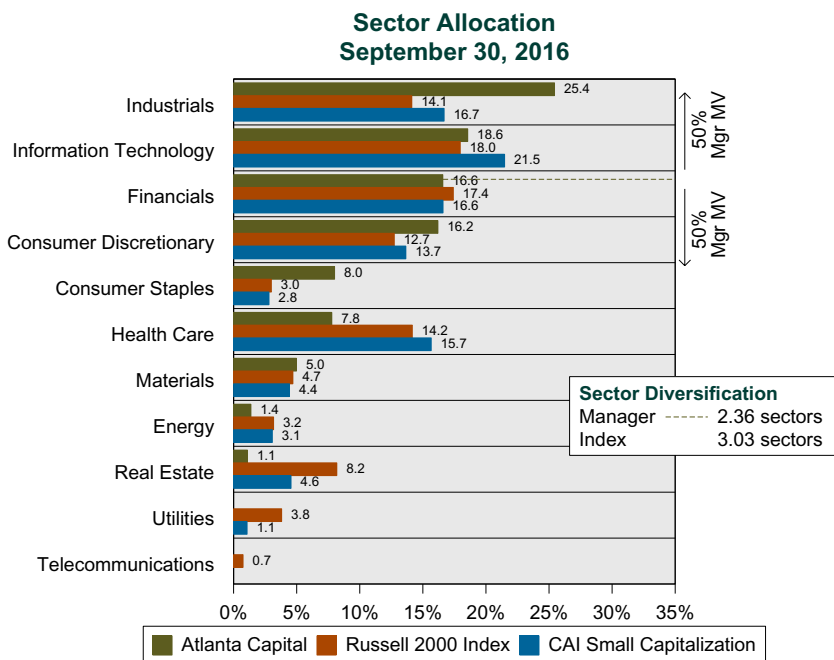
This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.

## Portfolio Characteristics Percentile Rankings Rankings Against CAI Small Capitalization as of September 30, 2016



## Sector Weights

The graph below contrasts the manager's sector weights with those of the benchmark and median sector weights across the members of the peer group. The magnitude of sector weight differences from the index and the manager's sector diversification are also shown. Diversification by number and concentration of holdings are also compared to the benchmark and peer group. Issue Diversification represents by count, and Diversification Ratio by percent, the number of holdings that account for half of the portfolio's market value.



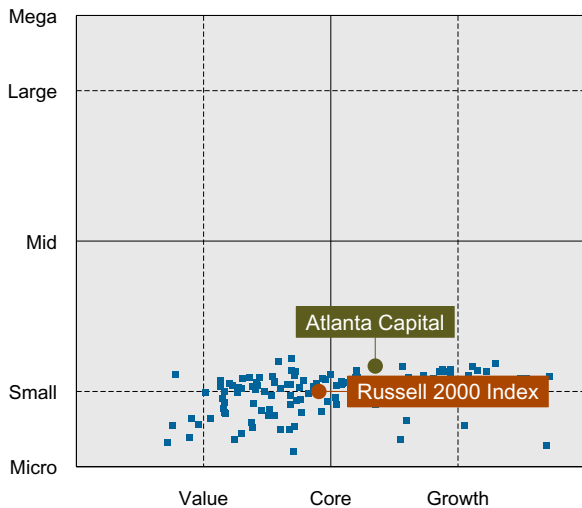
# Current Holdings Based Style Analysis

## Atlanta Capital

### As of September 30, 2016

This page analyzes the current investment style of a portfolio utilizing a detailed holdings-based style analysis to determine actual exposures to various market capitalization and style segments of the domestic equity market. The market is segmented quarterly by capitalization and style. The capitalization segments are dictated by capitalization decile breakpoints. The style segments are determined using the "Combined Z Score", based on the eight fundamental factors used in the MSCI stock style scoring system. The upper-left style map illustrates the current market capitalization and style score of the portfolio relative to indices and/or peers. The upper-right style exposure matrix displays the current portfolio and index weights and stock counts (in parentheses) in each capitalization/style segment of the market. The middle chart illustrates the total exposures and stock counts in the three style segments, with a legend showing the total growth, value, and "combined Z" (growth - value) scores. The bottom chart exhibits the sector weights as well as the style weights within each sector.

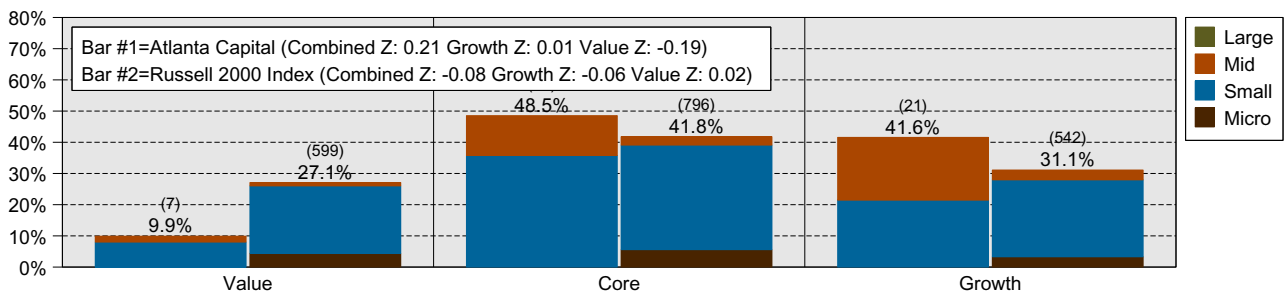
**Style Map vs CAI Small Capitalization Holdings as of September 30, 2016**



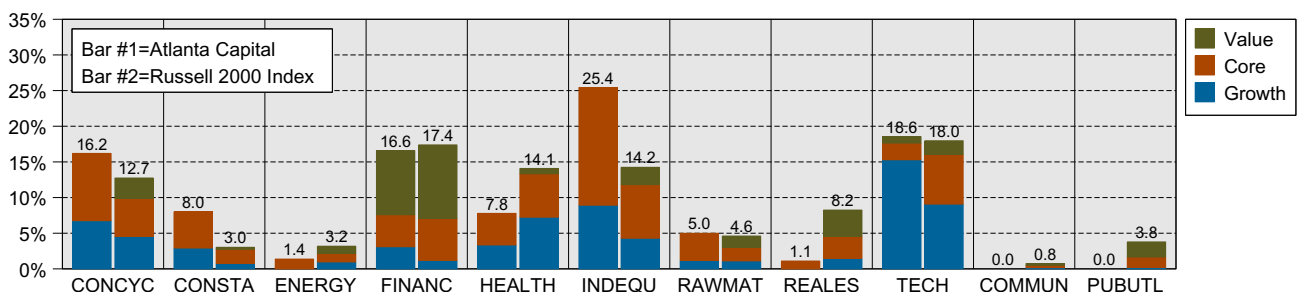
**Style Exposure Matrix Holdings as of September 30, 2016**

	Value	Core	Growth	Total
Large	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
Mid	1.9% (1)	12.8% (6)	20.1% (9)	34.8% (16)
Small	8.0% (6)	35.8% (24)	21.5% (12)	65.2% (42)
Micro	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
<b>Total</b>	<b>9.9% (7)</b>	<b>48.5% (30)</b>	<b>41.6% (21)</b>	<b>100.0% (58)</b>
	<b>27.1% (599)</b>	<b>41.8% (796)</b>	<b>31.1% (542)</b>	<b>100.0% (1937)</b>

**Combined Z-Score Style Distribution Holdings as of September 30, 2016**



**Sector Weights Distribution Holdings as of September 30, 2016**



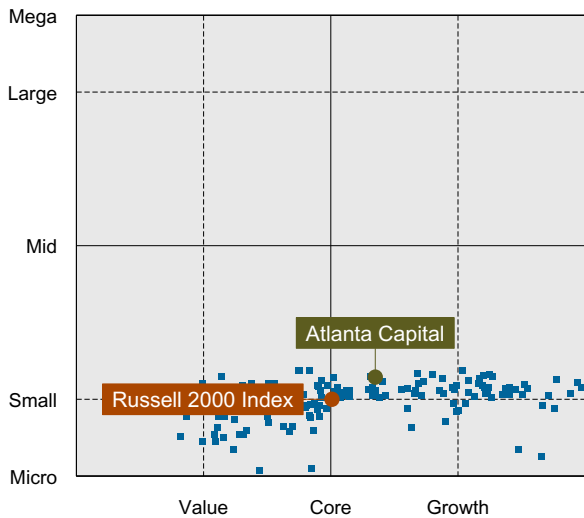
# Historical Holdings Based Style Analysis

## Atlanta Capital

### For Six and 1/4 Years Ended September 30, 2016

This page analyzes the historical investment style of a portfolio utilizing a detailed holdings-based style analysis to determine average actual exposures to various market capitalization and style segments of the domestic equity market. The market is segmented quarterly by capitalization and style. The capitalization segments are dictated by capitalization decile breakpoints. The style segments are determined using the "Combined Z Score", based on the eight fundamental factors used in the MSCI stock style scoring system. The upper-left style map illustrates the average historical market capitalization and style score of the portfolio relative to indices and/or peers. The upper-right style exposure matrix displays the average historical portfolio and index weights and stock counts (in parentheses) in each capitalization/style segment of the market. The next two style exposure charts illustrate the actual quarterly cap/style and style only segment exposures of the portfolio through history.

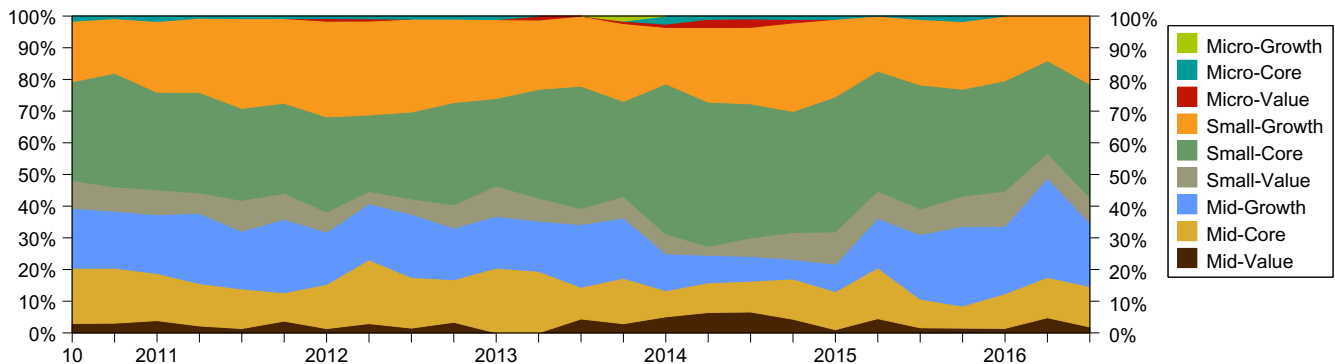
**Average Style Map vs CAI Small Capitalization Holdings for Six and 1/4 Years Ended September 30, 2016**



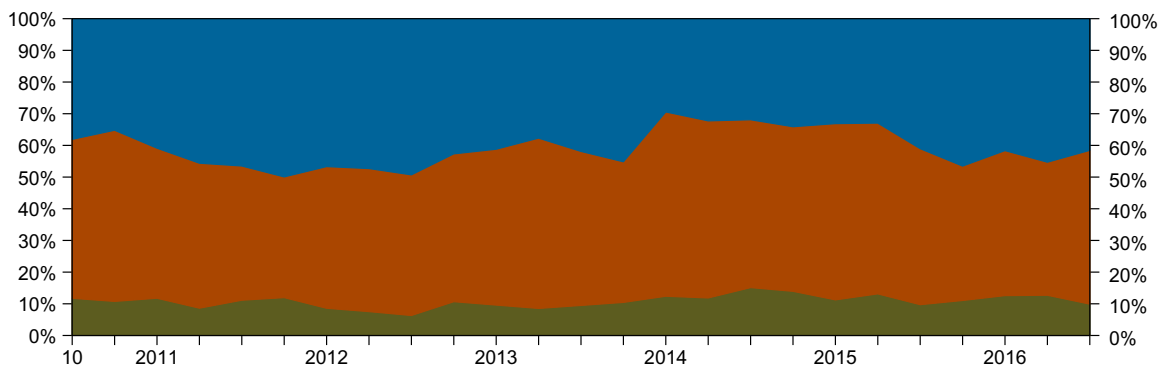
**Average Style Exposure Matrix Holdings for Six and 1/4 Years Ended September 30, 2016**

	0.0% (0)	0.0% (0)	0.0% (0)	<b>0.0% (0)</b>
Large	0.0% (0)	0.0% (0)	0.0% (0)	<b>0.0% (0)</b>
Mid	2.9% (2)	13.3% (7)	17.5% (8)	<b>33.7% (17)</b>
Small	7.5% (6)	34.3% (23)	23.2% (15)	<b>65.0% (44)</b>
Micro	0.4% (0)	0.8% (1)	0.1% (0)	<b>1.3% (1)</b>
<b>Total</b>	<b>10.8% (8)</b>	<b>48.4% (31)</b>	<b>40.7% (23)</b>	<b>100.0% (62)</b>
	<b>27.3% (592)</b>	<b>37.7% (770)</b>	<b>35.1% (592)</b>	<b>100.0% (1954)</b>
	Value	Core	Growth	Total

**Atlanta Capital Historical Cap/Style Exposures**



**Atlanta Capital Historical Style Only Exposures**



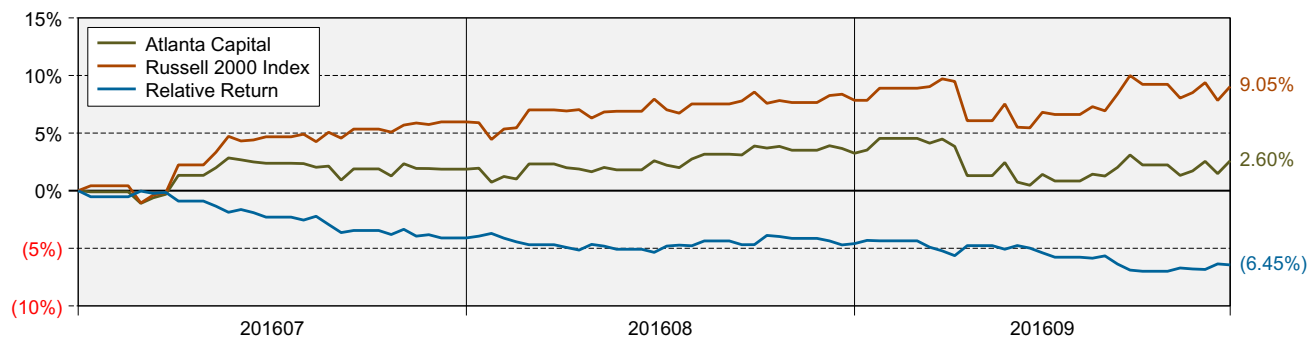


# Atlanta Capital vs Russell 2000 Index Domestic Equity Daily Performance Attribution One Quarter Ended September 30, 2016

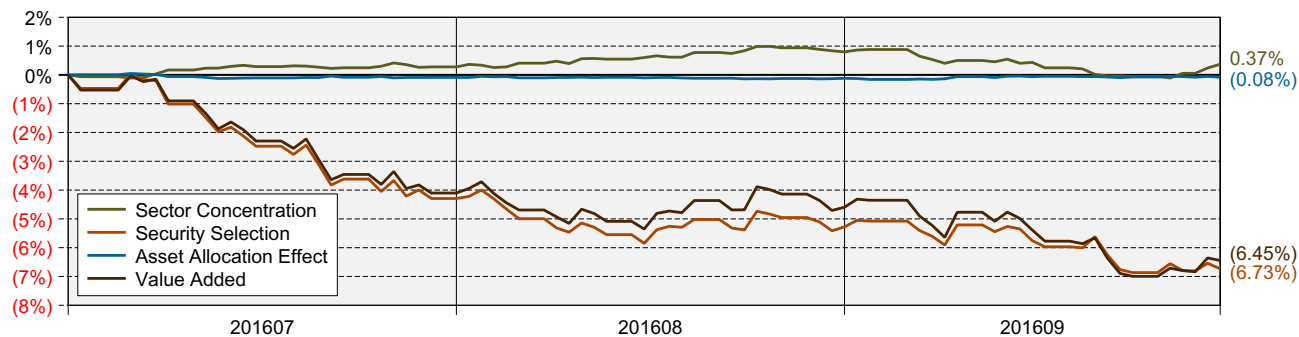
## Return Sources and Timing

The charts below illustrate the timing and cumulative paths of the manager's performance, as well as attributing relative performance to three sources: Sector Concentration, Security Selection, and Asset Allocation. The first chart shows the cumulative absolute return paths for the manager and index. The second chart shows the cumulative relative return path of the manager and the attributed sources of that value-added. The bottom table breaks the annualized attribution factors down to the sector level for more insight into sources of return.

## Cumulative Manager and Benchmark Returns



## Cumulative Attribution Effects vs. Russell 2000 Index



## Attribution Effects by Sector vs. Russell 2000 Index One Quarter Ended September 30, 2016

Sector	Manager Eff Weight	Index Eff Weight	Manager Return	Index Return	Sector Concentration	Security Selection	Asset Allocation
Real Estate	0.35%	2.84%	3.46%	(2.68)%	0.30%	0.07%	-
Consumer Discretionary	16.31%	13.49%	(0.43)%	4.00%	(0.17)%	(0.73)%	-
Consumer Staples	8.39%	3.10%	0.05%	2.25%	(0.35)%	(0.19)%	-
Energy	1.40%	2.94%	(4.60)%	10.55%	(0.03)%	(0.22)%	-
Financials	17.27%	23.02%	4.42%	8.21%	(0.06)%	(0.65)%	-
Health Care	8.10%	13.64%	4.26%	13.64%	(0.22)%	(0.78)%	-
Industrials	24.85%	14.05%	3.12%	9.25%	0.04%	(1.54)%	-
Information Technology	18.67%	17.34%	2.34%	16.26%	0.09%	(2.54)%	-
Materials	4.64%	4.65%	8.86%	12.24%	0.01%	(0.15)%	-
Telecommunications	0.00%	0.89%	0.00%	(5.76)%	0.15%	0.00%	-
Utilities	0.00%	4.05%	0.00%	(5.12)%	0.61%	0.00%	-
Non Equity	3.15%	0.00%	-	-	-	-	(0.08)%
<b>Total</b>	-	-	<b>2.60%</b>	<b>9.05%</b>	<b>0.37%</b>	<b>(6.73)%</b>	<b>(0.08)%</b>

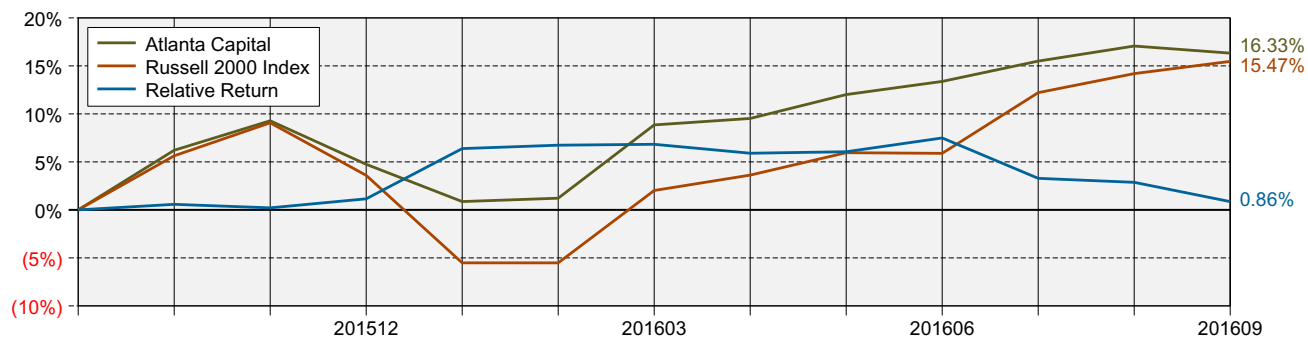
<b>Manager Return</b>	=	<b>Index Return</b>	+	<b>Sector Concentration</b>	+	<b>Security Selection</b>	+	<b>Asset Allocation</b>
<b>2.60%</b>		<b>9.05%</b>		<b>0.37%</b>		<b>(6.73)%</b>		<b>(0.08)%</b>

# Atlanta Capital vs Russell 2000 Index Domestic Equity Daily Performance Attribution One Year Ended September 30, 2016

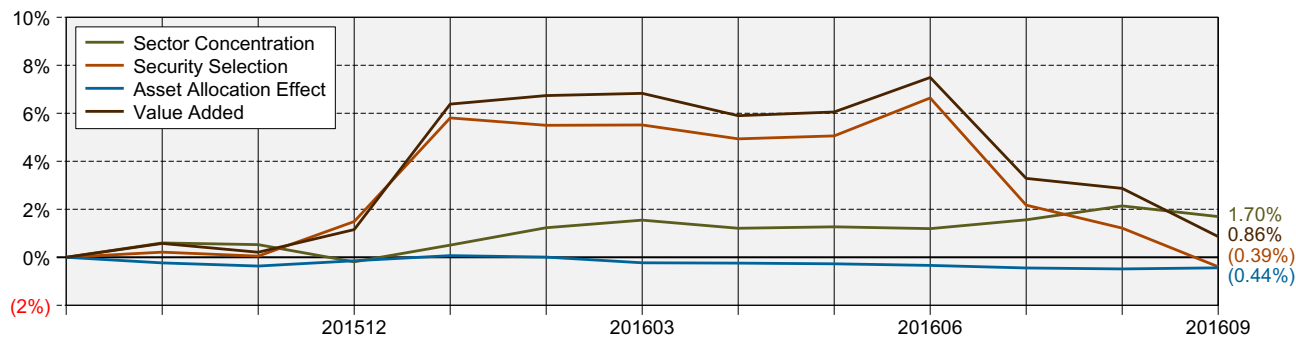
## Return Sources and Timing

The charts below illustrate the timing and cumulative paths of the manager's performance, as well as attributing relative performance to three sources: Sector Concentration, Security Selection, and Asset Allocation. The first chart shows the cumulative absolute return paths for the manager and index. The second chart shows the cumulative relative return path of the manager and the attributed sources of that value-added. The bottom table breaks the annualized attribution factors down to the sector level for more insight into sources of return.

## Cumulative Manager and Benchmark Returns



## Cumulative Attribution Effects vs. Russell 2000 Index



## Attribution Effects by Sector vs. Russell 2000 Index One Year Ended September 30, 2016

Sector	Manager Eff Weight	Index Eff Weight	Manager Return	Index Return	Sector Concentration	Security Selection	Asset Allocation
Real Estate	0.09%	0.71%	3.46%	(2.68)%	0.33%	0.08%	-
Consumer Discretionary	15.23%	13.73%	8.38%	1.27%	(0.24)%	1.08%	-
Consumer Staples	7.97%	3.40%	22.99%	18.83%	0.15%	0.31%	-
Energy	1.46%	2.81%	(4.57)%	(0.05)%	0.26%	(0.12)%	-
Financials	17.51%	25.27%	11.32%	16.48%	(0.21)%	(0.90)%	-
Health Care	8.19%	14.48%	31.58%	8.59%	0.67%	1.77%	-
Industrials	24.08%	12.98%	18.84%	20.74%	0.68%	(0.62)%	-
Information Technology	20.81%	17.66%	16.36%	25.65%	0.25%	(1.61)%	-
Materials	4.68%	4.03%	29.37%	37.03%	0.18%	(0.39)%	-
Telecommunications	0.00%	0.89%	0.00%	20.09%	(0.02)%	0.00%	-
Utilities	0.00%	4.04%	0.00%	24.66%	(0.35)%	0.00%	-
Non Equity	3.21%	0.00%	-	-	-	-	(0.44)%
Total	-	-	16.33%	15.47%	1.70%	(0.39)%	(0.44)%

<b>Manager Return</b>	=	<b>Index Return</b>	+	<b>Sector Concentration</b>	+	<b>Security Selection</b>	+	<b>Asset Allocation</b>
16.33%		15.47%		1.70%		(0.39)%		(0.44)%

## Atlanta Capital vs Russell 2000 Index Domestic Equity Top 10 Contribution Holdings One Quarter Ended September 30, 2016

### Manager Holdings with Largest (+ or -) Contribution to Performance

Issue	Sector	Manager Eff Wt	Days Held	Index Eff Wt	Manager Return	Index Return	Contrib Manager Perf	Contrib Excess Return
Wex Inc	Information Technology	2.03%	92	-	21.90%	-	0.42%	0.24%
Manhattan Associates	Information Technology	3.69%	92	-	(9.96)%	-	(0.39)%	(0.72)%
Sally Beauty Hldgs Inc	Consumer Discretionary	2.83%	92	-	(12.68)%	-	(0.37)%	(0.62)%
Exponent Inc	Industrials	2.60%	92	0.08%	(12.27)%	(12.27)%	(0.35)%	(0.58)%
Balchem Corp	Materials	0.98%	92	0.12%	29.97%	29.97%	0.27%	0.16%
Advisory Brd Co	Industrials	1.13%	92	0.10%	26.42%	26.42%	0.27%	0.16%
Bio Rad Labs Inc CI A	Health Care	1.87%	92	-	14.54%	-	0.27%	0.10%
Caseys General Stores	Consumer Staples	3.16%	92	-	(8.47)%	-	(0.26)%	(0.54)%
Fair Isaac Corp	Information Technology	2.68%	92	0.22%	10.26%	10.26%	0.26%	0.03%
Inter Parfums Inc	Consumer Staples	1.80%	92	0.03%	13.49%	13.49%	0.22%	0.07%

### Index Holdings with Largest (+ or -) Contribution to Performance

Issue	Sector	Manager Eff Wt	Days Held	Index Eff Wt	Manager Return	Index Return	Contrib Index Perf	Contrib Excess Return
Sarepta Therapeutics Inc	Health Care	-	-	0.06%	-	222.02%	0.11%	(0.10)%
Cepheid	Health Care	-	-	0.14%	-	71.35%	0.09%	(0.08)%
Chemours Co Com	Materials	-	-	0.11%	-	94.65%	0.08%	(0.07)%
Novavax Inc	Health Care	-	-	0.11%	-	(71.39)%	(0.08)%	0.09%
Finisar Corp	Information Technology	-	-	0.12%	-	70.19%	0.08%	(0.07)%
Advanced Micro Devices Inc	Information Technology	-	-	0.25%	-	34.44%	0.07%	(0.05)%
Genworth Financial A	Financials	-	-	0.10%	-	92.25%	0.07%	(0.06)%
Cavium Inc	Information Technology	-	-	0.17%	-	50.78%	0.07%	(0.06)%
Intersil Hldg Corp CI A	Information Technology	-	-	0.13%	-	63.24%	0.07%	(0.06)%
Exelixis Inc	Health Care	-	-	0.13%	-	63.76%	0.07%	(0.06)%

### Positions with Largest Positive Contribution to Excess Return

Issue	Sector	Manager Eff Wt	Days Held	Index Eff Wt	Manager Return	Index Return	Contrib Manager Perf	Contrib Excess Return
Wex Inc	Information Technology	2.03%	92	-	21.90%	-	0.42%	0.24%
Balchem Corp	Materials	0.98%	92	0.12%	29.97%	29.97%	0.27%	0.16%
Advisory Brd Co	Industrials	1.13%	92	0.10%	26.42%	26.42%	0.27%	0.16%
Power Integrations Inc	Information Technology	0.84%	92	0.09%	26.16%	26.16%	0.20%	0.11%
Raven Inds Inc	Industrials	0.97%	92	0.05%	22.45%	22.45%	0.19%	0.11%
Bio Rad Labs Inc CI A	Health Care	1.87%	92	-	14.54%	-	0.27%	0.10%
Novavax Inc	Health Care	-	-	0.11%	-	(71.39)%	-	0.09%
Stepan Co	Materials	0.80%	92	0.08%	22.39%	22.39%	0.16%	0.09%
Inter Parfums Inc	Consumer Staples	1.80%	92	0.03%	13.49%	13.49%	0.22%	0.07%
Olin Corp	Materials	-	-	0.22%	-	(16.60)%	-	0.06%

### Positions with Largest Negative Contribution to Excess Return

Issue	Sector	Manager Eff Wt	Days Held	Index Eff Wt	Manager Return	Index Return	Contrib Manager Perf	Contrib Excess Return
Manhattan Associates	Information Technology	3.69%	92	-	(9.96)%	-	(0.39)%	(0.72)%
Sally Beauty Hldgs Inc	Consumer Discretionary	2.83%	92	-	(12.68)%	-	(0.37)%	(0.62)%
Exponent Inc	Industrials	2.60%	92	0.08%	(12.27)%	(12.27)%	(0.35)%	(0.58)%
Caseys General Stores	Consumer Staples	3.16%	92	-	(8.47)%	-	(0.26)%	(0.54)%
Morningstar Inc	Financials	3.20%	92	-	(2.80)%	-	(0.09)%	(0.37)%
Blackbaud Inc	Information Technology	2.97%	92	0.19%	(2.12)%	(2.12)%	(0.07)%	(0.31)%
Choice Hotels Intl Inc	Consumer Discretionary	2.10%	92	-	(4.93)%	-	(0.11)%	(0.29)%
Aptargroup Inc	Materials	2.72%	92	-	(1.88)%	-	(0.04)%	(0.29)%
Monotype Imaging Holdings In	Information Technology	0.92%	61	0.05%	(15.20)%	(9.78)%	(0.16)%	(0.28)%
Graco Inc	Industrials	1.56%	92	-	(5.93)%	-	(0.10)%	(0.24)%

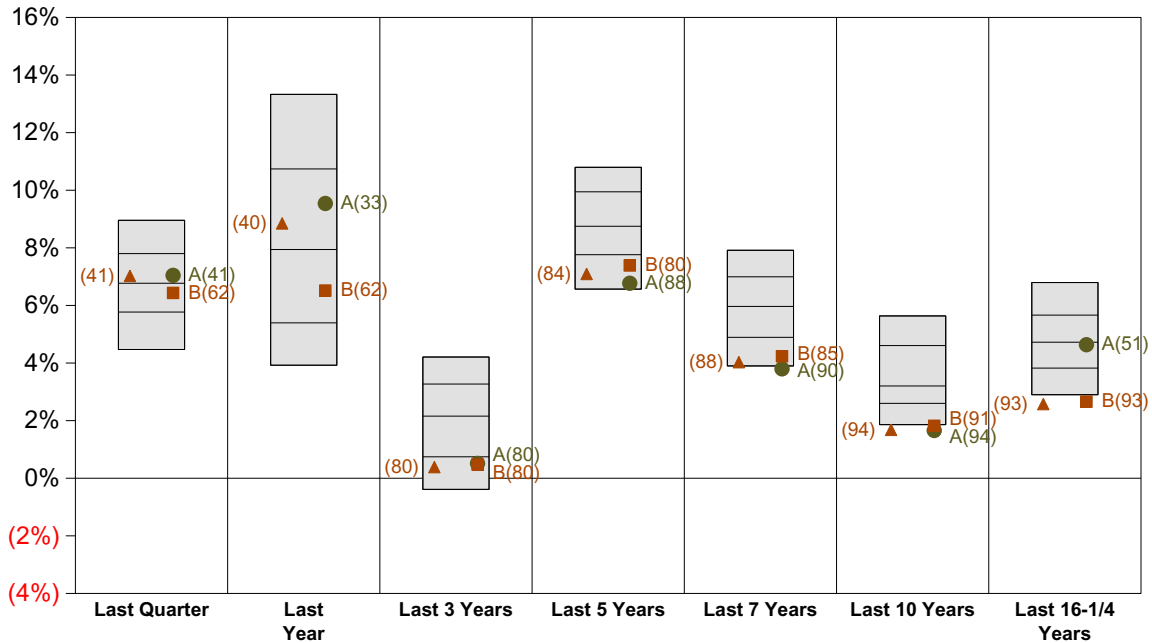


# International Equity Period Ended September 30, 2016

## Quarterly Summary and Highlights

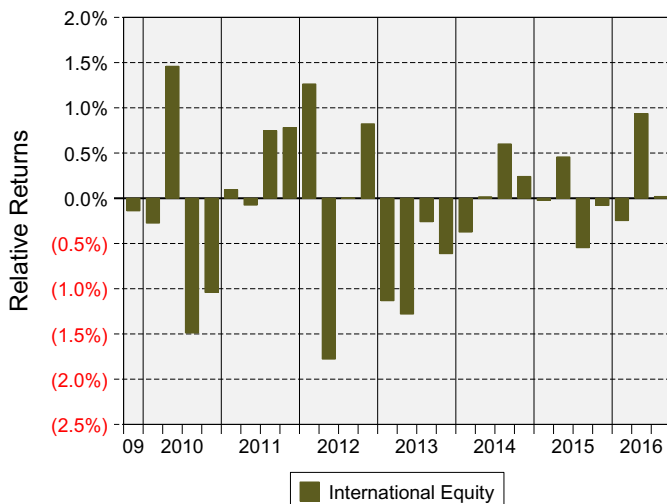
- International Equity's portfolio posted a 7.04% return for the quarter placing it in the 41 percentile of the CAI Non-U.S. Equity Style group for the quarter and in the 33 percentile for the last year.
- International Equity's portfolio outperformed the Custom International Benchmark by 0.02% for the quarter and outperformed the Custom International Benchmark for the year by 0.69%.

## Performance vs CAI Non-U.S. Equity Style (Gross)

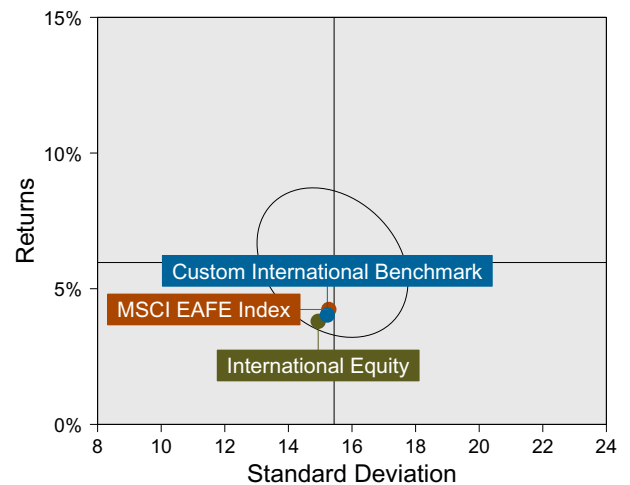


10th Percentile	8.96	13.33	4.21	10.80	7.92	5.64	6.80	
25th Percentile	7.80	10.74	3.27	9.94	6.99	4.61	5.66	
Median	6.77	7.94	2.16	8.75	5.97	3.20	4.72	
75th Percentile	5.77	5.40	0.74	7.76	4.89	2.60	3.82	
90th Percentile	4.47	3.92	(0.39)	6.57	3.90	1.86	2.90	
International Equity	● A	7.04	9.54	0.52	6.77	3.80	1.66	4.64
EAFE Index	■ B	6.43	6.52	0.48	7.39	4.24	1.82	2.66
Custom International Benchmark	▲	7.03	8.85	0.39	7.09	4.03	1.68	2.58

## Relative Returns vs Custom International Benchmark



## CAI Non-U.S. Equity Style (Gross) Annualized Seven Year Risk vs Return

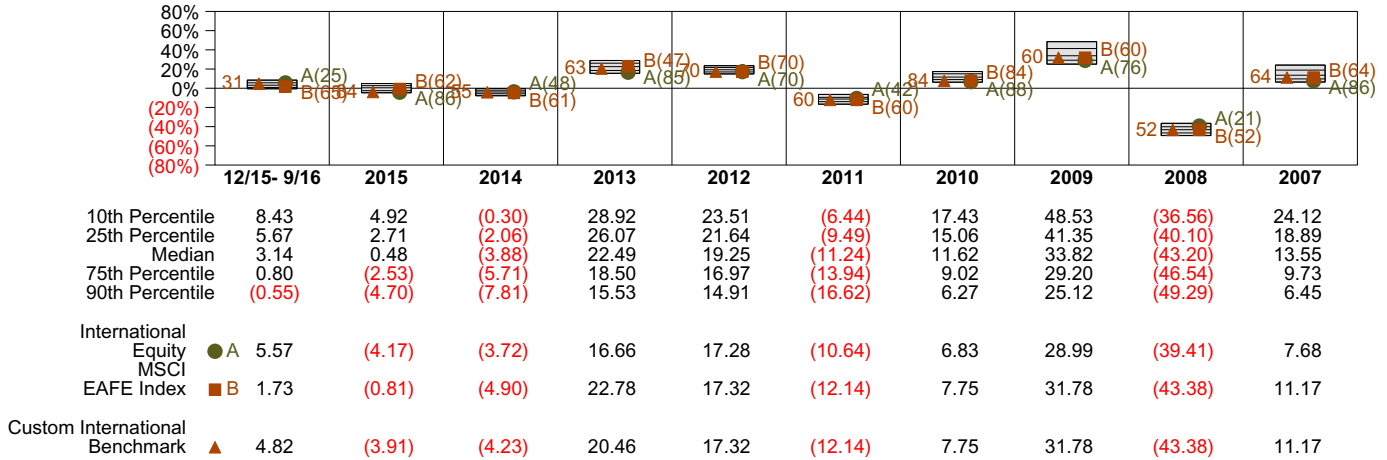


# International Equity Return Analysis Summary

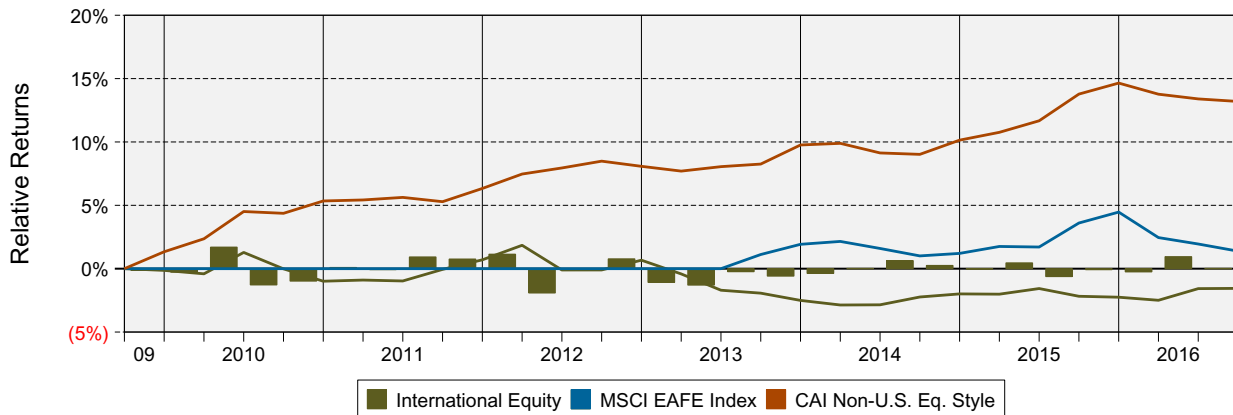
## Return Analysis

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.

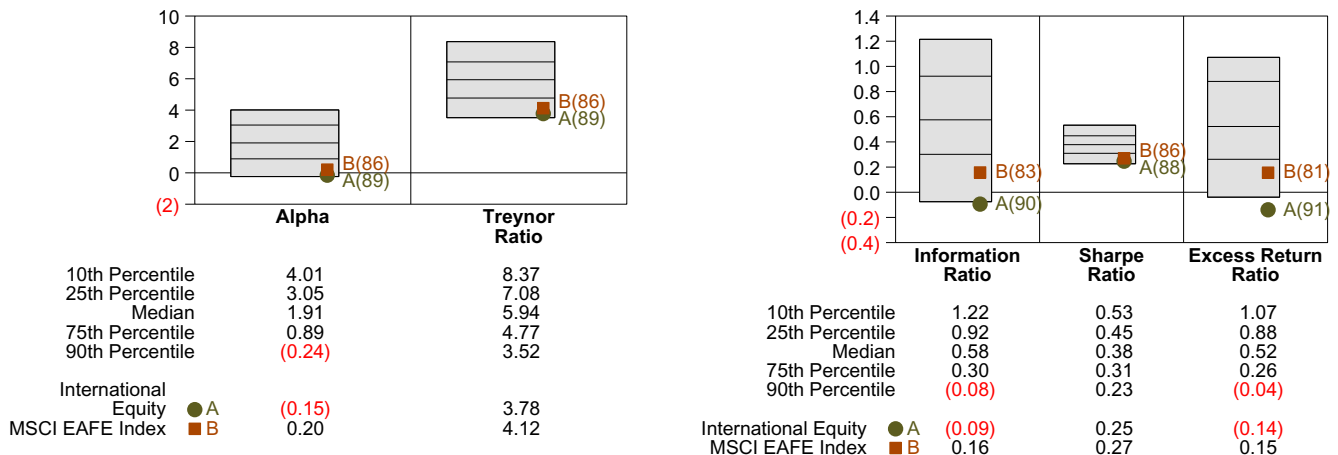
### Performance vs CAI Non-U.S. Equity Style (Gross)



### Cumulative and Quarterly Relative Return vs Custom International Benchmark



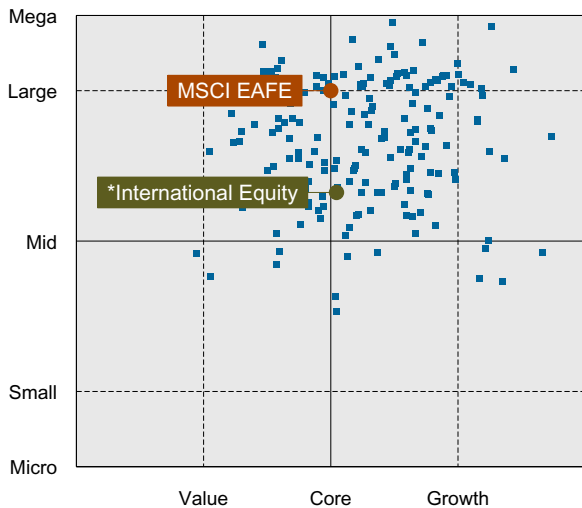
### Risk Adjusted Return Measures vs Custom International Benchmark Rankings Against CAI Non-U.S. Equity Style (Gross) Seven Years Ended September 30, 2016



# Current Holdings Based Style Analysis International Equity As of September 30, 2016

This page analyzes the current investment style of a portfolio utilizing a detailed holdings-based style analysis to determine actual exposures to various regional and style segments of the international/global equity market. The market is segmented quarterly by region and style. The style segments are determined using the "Combined Z Score", based on the eight fundamental factors used in the MSCI stock style scoring system. The upper-left chart illustrates the current market capitalization and style score of the portfolio relative to indices and/or peers. The upper-right style exposure matrix displays the current portfolio and index weights and stock counts (in parentheses) in each region/style segment of the market. The middle chart illustrates the total exposures and stock counts in the three style segments, with a legend showing the total growth, value, and "combined Z" (growth - value) scores. The bottom chart exhibits the sector weights as well as the style weights within each sector.

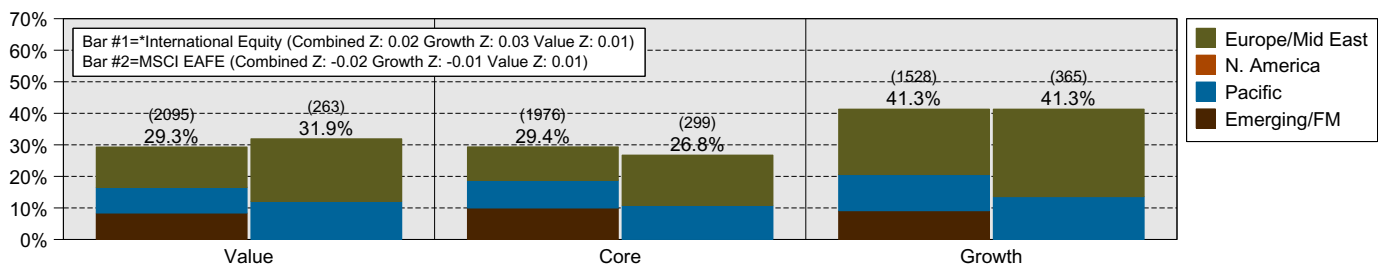
**Style Map vs CAI Non-U.S. Eq. Style Holdings as of September 30, 2016**



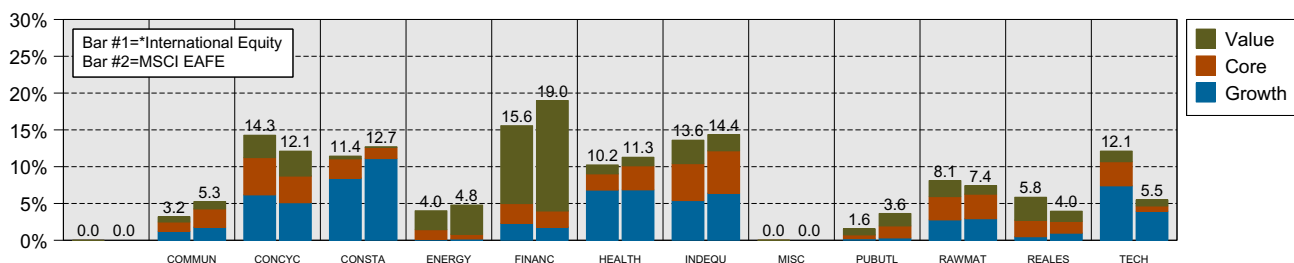
**Style Exposure Matrix Holdings as of September 30, 2016**

	Value	Core	Growth	Total
Europe/ Mid East	12.8% (232)	10.6% (269)	20.7% (281)	44.0% (782)
N. America	19.8% (128)	16.0% (143)	27.7% (186)	63.6% (457)
Pacific	0.0% (1)	0.0% (2)	0.0% (2)	0.0% (5)
Emerging/ FM	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
<b>Total</b>	<b>29.3% (2095)</b>	<b>29.4% (1976)</b>	<b>41.3% (1528)</b>	<b>100.0% (5599)</b>
	<b>31.9% (263)</b>	<b>26.8% (299)</b>	<b>41.3% (365)</b>	<b>100.0% (927)</b>

**Combined Z-Score Style Distribution Holdings as of September 30, 2016**



**Sector Weights Distribution Holdings as of September 30, 2016**

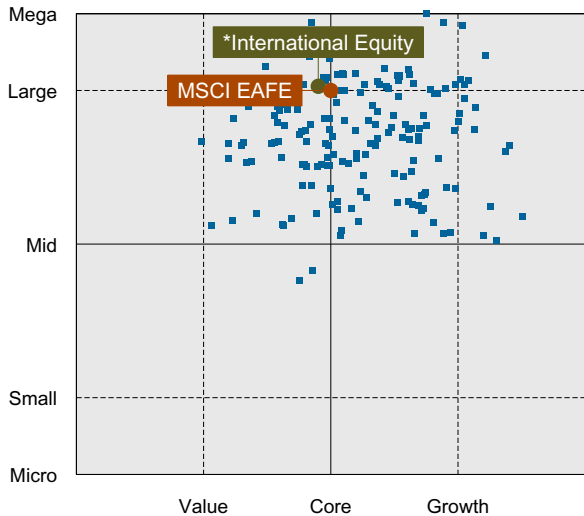


\* 9/30/16 portfolio characteristics generated using most recently available holdings (6/30/16) modified based on a "buy-and-hold" assumption (repriced and adjusted for corporate actions). Analysis is then done using current market and company financial data.

# Historical Holdings Based Style Analysis International Equity For Six and 1/4 Years Ended September 30, 2016

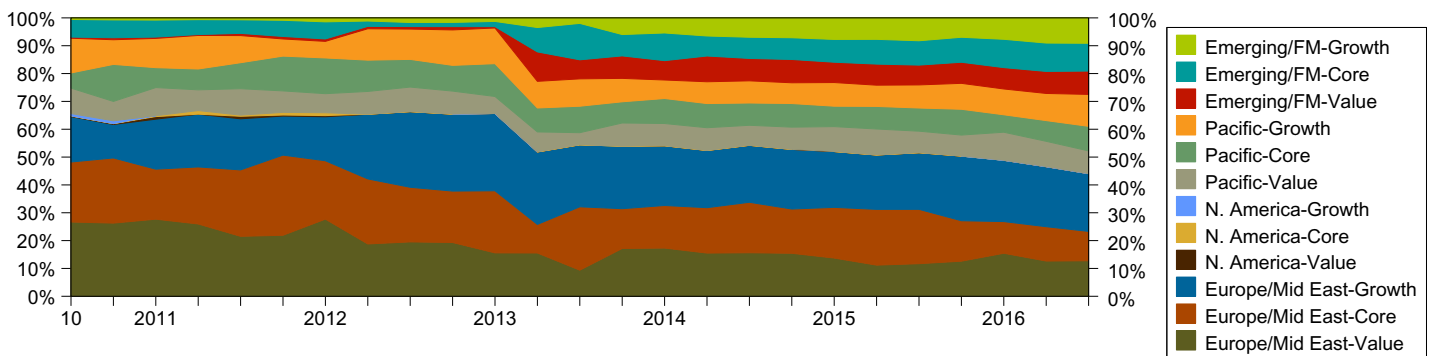
This page analyzes the historical investment style of a portfolio utilizing a detailed holdings-based style analysis to determine average actual exposures to various region and style segments of the international/global equity market. The market is segmented quarterly by region and style. The style segments are determined using the "Combined Z Score", based on the eight fundamental factors used in the MSCI stock style scoring system. The upper-left style map illustrates the average historical market capitalization and style score of the portfolio relative to indices and/or peers. The upper-right style exposure matrix displays the average historical portfolio and index weights and stock counts (in parentheses) in each region/style segment of the market. The next two style exposure charts illustrate the actual quarterly region/style and style only segment exposures of the portfolio through history.

**Average Style Map vs CAI Non-U.S. Eq. Style Holdings for Six and 1/4 Years Ended September 30, 2016**      **Average Style Exposure Matrix Holdings for Six and 1/4 Years Ended September 30, 2016**

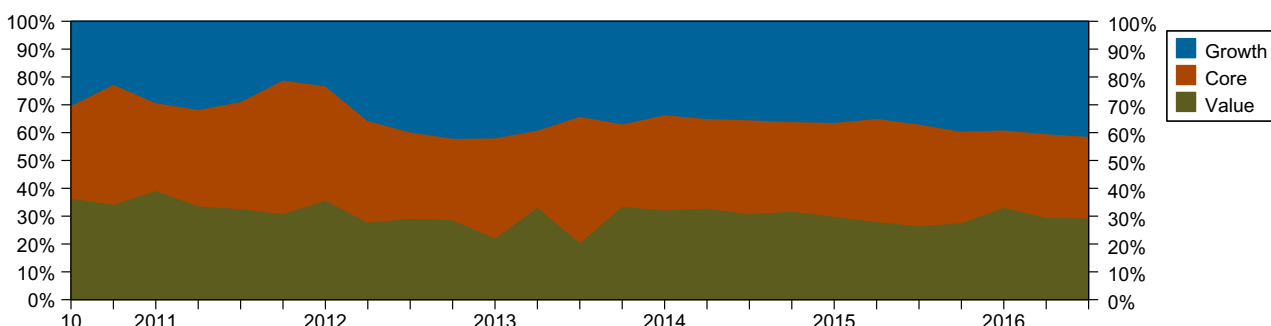


Europe/ Mid East	17.9% (107) 20.2% (133)	18.4% (109) 19.6% (128)	20.9% (150) 24.9% (194)	57.1% (366) 64.8% (455)
N. America	0.1% (1) 0.0% (0)	0.2% (2) 0.0% (0)	0.1% (0) 0.3% (1)	0.4% (3) 0.3% (1)
Pacific	8.0% (112) 10.4% (136)	9.0% (132) 12.6% (160)	9.4% (133) 11.9% (169)	26.5% (377) 34.8% (465)
Emerging/ FM	4.8% (629) 0.0% (0)	7.0% (831) 0.0% (0)	4.2% (376) 0.0% (0)	16.0% (1836) 0.0% (0)
<b>Total</b>	<b>30.8% (849)</b> <b>30.6% (269)</b>	<b>34.6% (1074)</b> <b>32.2% (288)</b>	<b>34.6% (659)</b> <b>37.1% (364)</b>	<b>100.0% (2582)</b> <b>100.0% (921)</b>
	Value	Core	Growth	Total

## \*International Equity Historical Region/Style Exposures



## \*International Equity Historical Style Only Exposures



\*9/30/16 portfolio characteristics generated using most recently available holdings (6/30/16) modified based on a "buy-and-hold" assumption (repriced and adjusted for corporate actions). Analysis is then done using current market and company financial data.



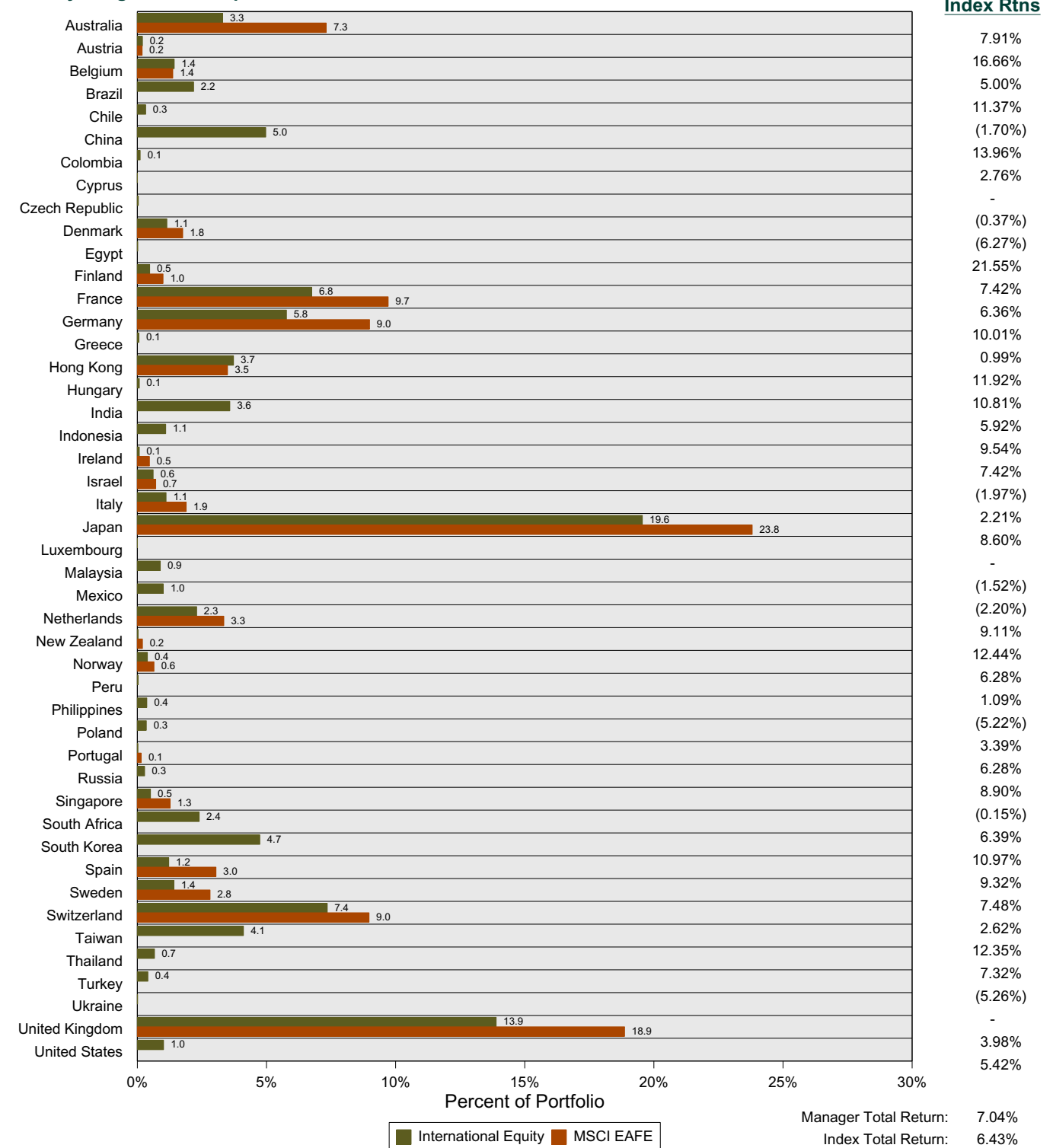
# Country Allocation

## International Equity VS MSCI EAFE Index (USD Net Div)

### Country Allocation

The chart below contrasts the portfolio's country allocation with that of the index as of September 30, 2016. This chart is useful because large deviations in country allocation relative to the index are often good predictors of tracking error in the subsequent quarter. To the extent that the portfolio allocation is similar to the index, the portfolio should experience more "index-like" performance. In order to illustrate the performance effect on the portfolio and index of these country allocations, the individual index country returns are also shown.

### Country Weights as of September 30, 2016



# SSgA EAFE

## Period Ended September 30, 2016

### Investment Philosophy

SSGA's objective is to provide the most cost-effective implementation of passive investing with stringent risk control and tracking requirements through a replication method. Returns prior to 6/30/2012 are linked to a composite history.

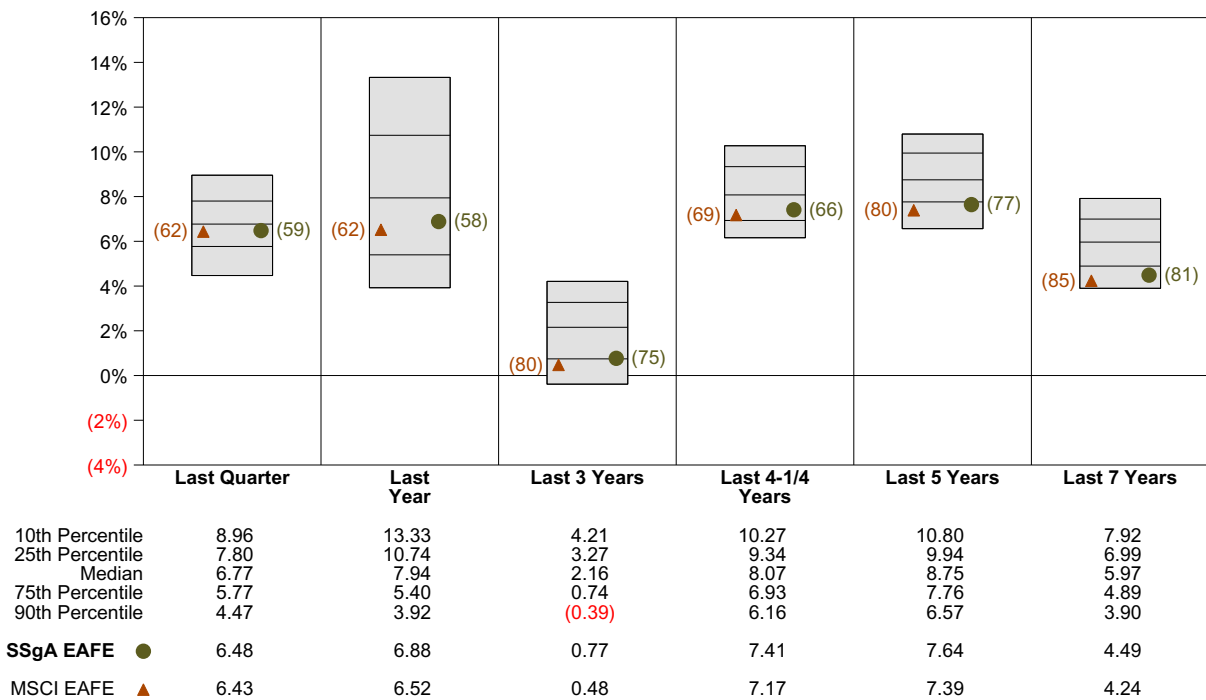
### Quarterly Summary and Highlights

- SSgA EAFE's portfolio posted a 6.48% return for the quarter placing it in the 59th percentile of the CAI Non-U.S. Equity Style group for the quarter and in the 58th percentile for the last year.
- SSgA EAFE's portfolio outperformed the MSCI EAFE by 0.04% for the quarter and outperformed the MSCI EAFE for the year by 0.37%.

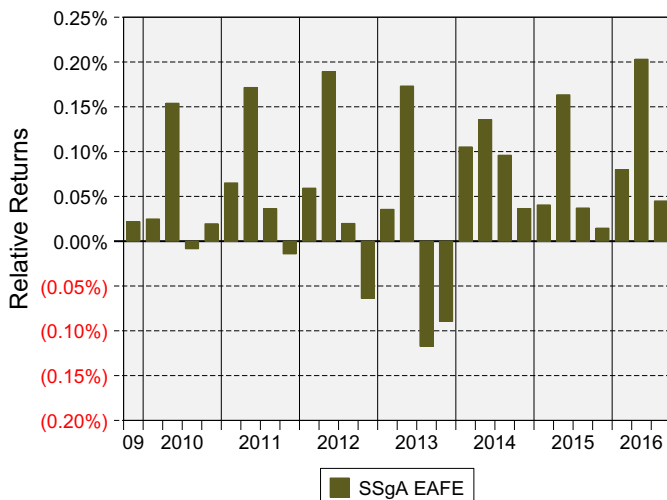
### Quarterly Asset Growth

Beginning Market Value	\$20,550,876
Net New Investment	\$-12,201,601
Investment Gains/(Losses)	\$899,468
Ending Market Value	\$9,248,743

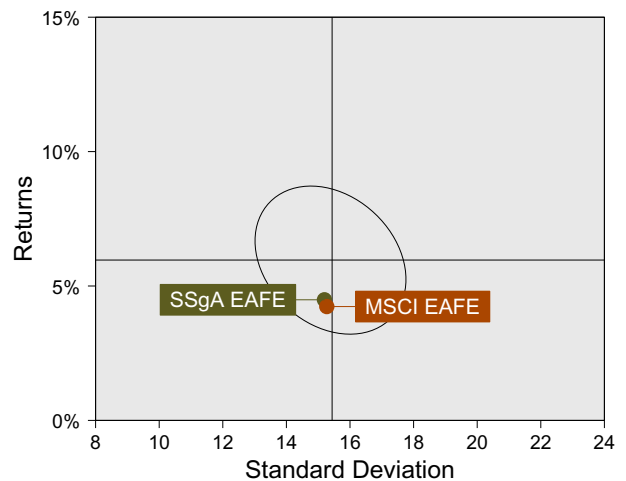
### Performance vs CAI Non-U.S. Equity Style (Gross)



### Relative Return vs MSCI EAFE



### CAI Non-U.S. Equity Style (Gross) Annualized Seven Year Risk vs Return

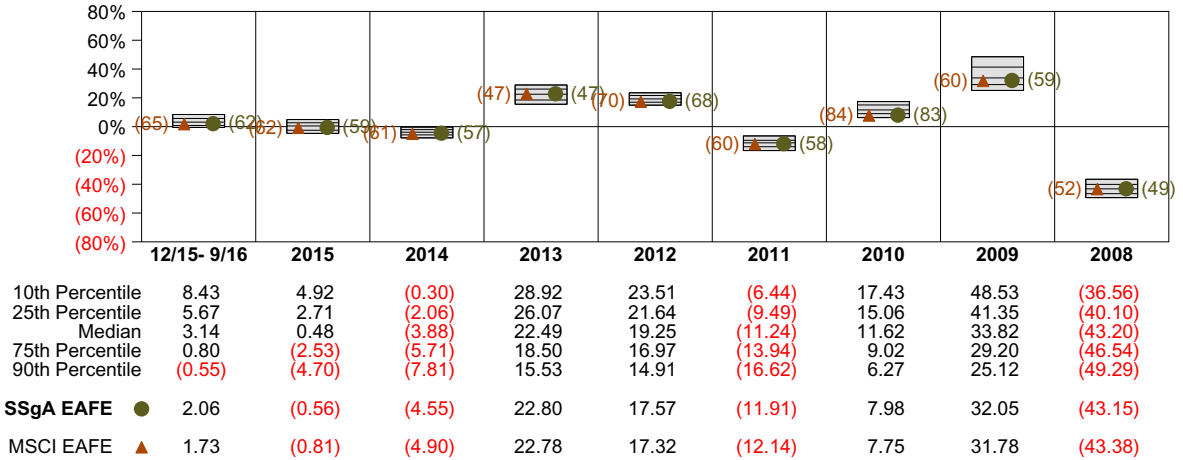


# SSgA EAFE Return Analysis Summary

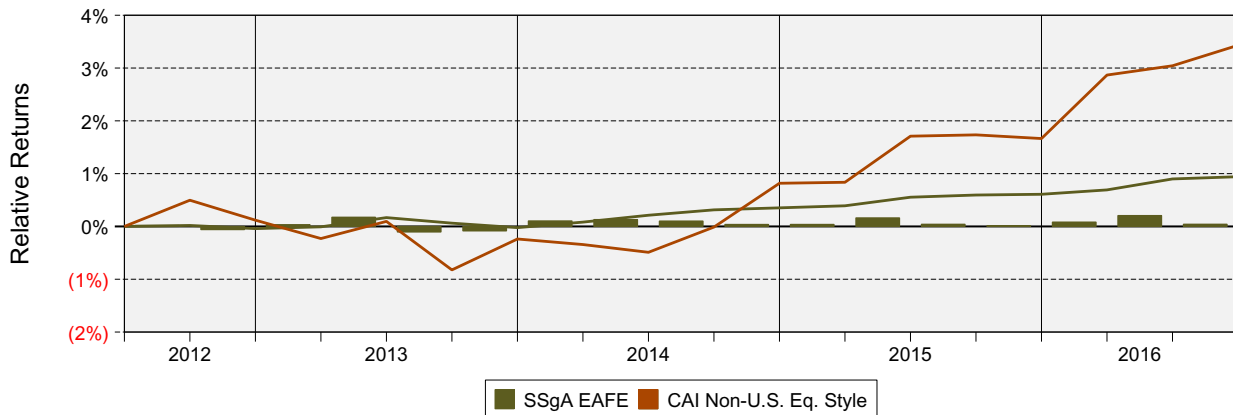
## Return Analysis

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.

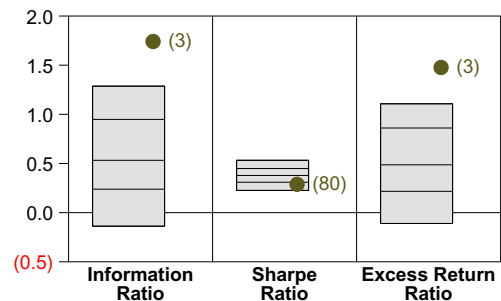
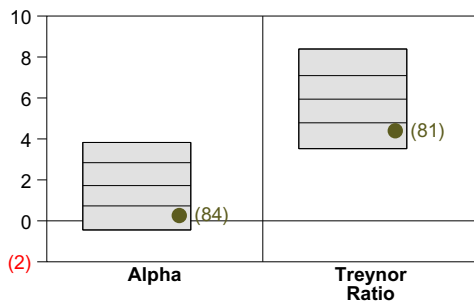
### Performance vs CAI Non-U.S. Equity Style (Gross)



### Cumulative and Quarterly Relative Return vs MSCI EAFE



### Risk Adjusted Return Measures vs MSCI EAFE Rankings Against CAI Non-U.S. Equity Style (Gross) Seven Years Ended September 30, 2016

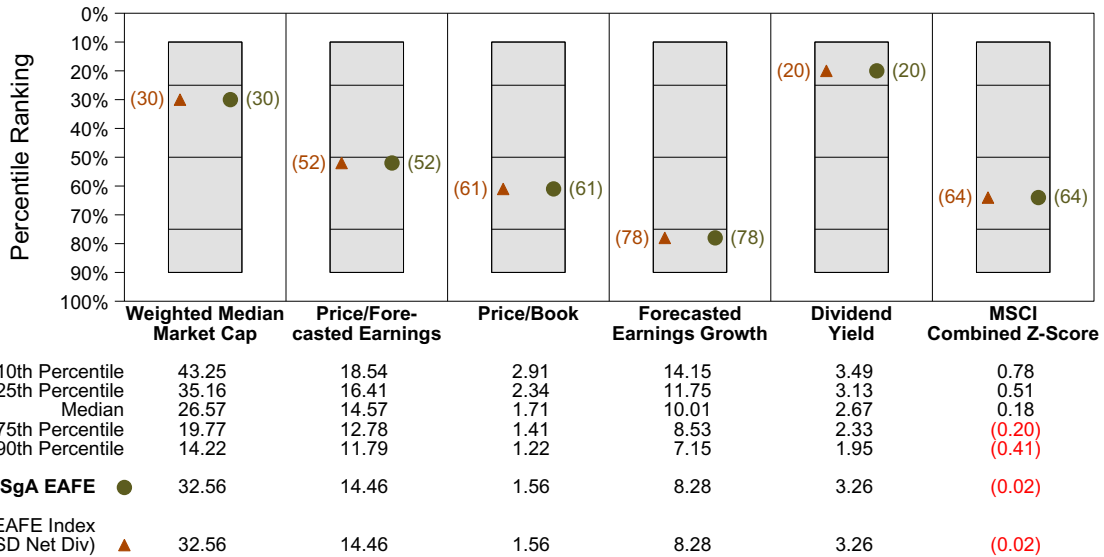


# SSgA EAFE Equity Characteristics Analysis Summary

## Portfolio Characteristics

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.

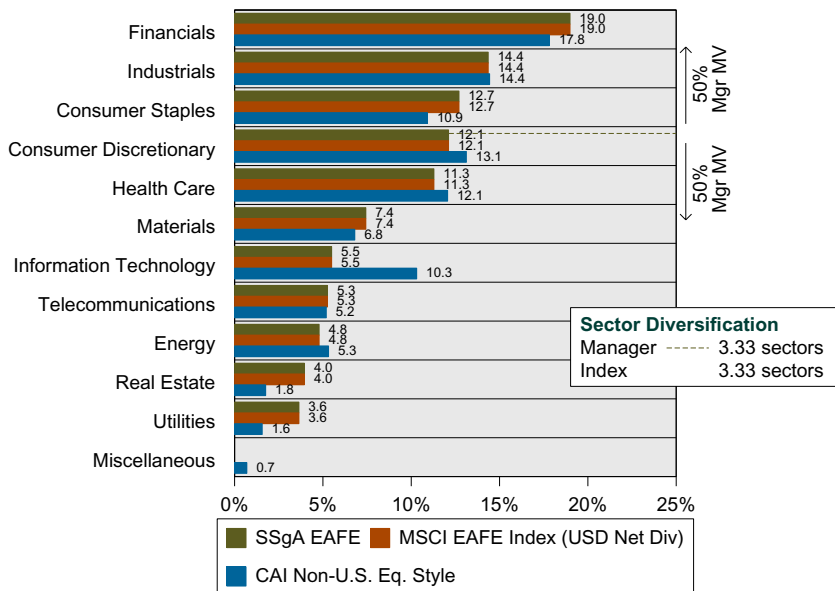
## Portfolio Characteristics Percentile Rankings Rankings Against CAI Non-U.S. Equity Style as of September 30, 2016



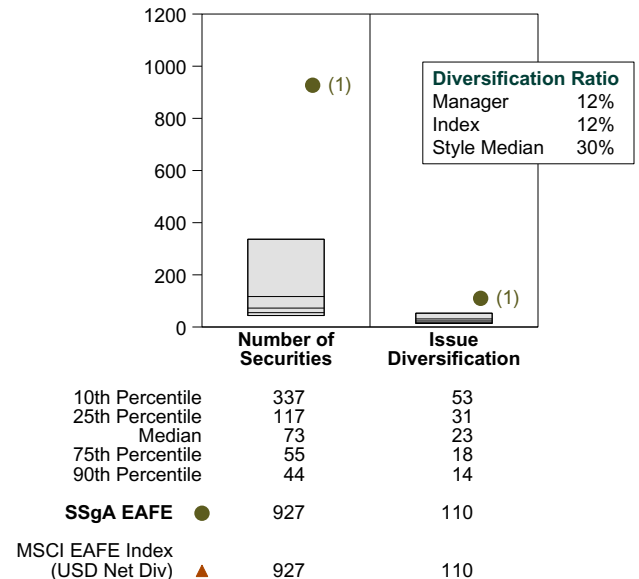
## Sector Weights

The graph below contrasts the manager's sector weights with those of the benchmark and median sector weights across the members of the peer group. The magnitude of sector weight differences from the index and the manager's sector diversification are also shown. Diversification by number and concentration of holdings are also compared to the benchmark and peer group. Issue Diversification represents by count, and Diversification Ratio by percent, the number of holdings that account for half of the portfolio's market value.

### Sector Allocation September 30, 2016



### Diversification September 30, 2016



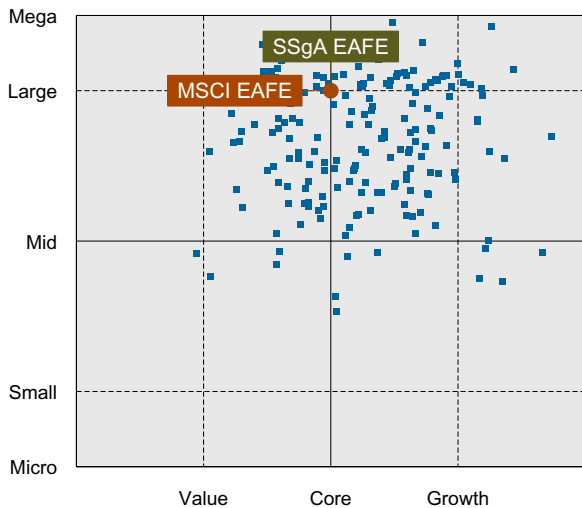
# Current Holdings Based Style Analysis

## SSgA EAFE

### As of September 30, 2016

This page analyzes the current investment style of a portfolio utilizing a detailed holdings-based style analysis to determine actual exposures to various regional and style segments of the international/global equity market. The market is segmented quarterly by region and style. The style segments are determined using the "Combined Z Score", based on the eight fundamental factors used in the MSCI stock style scoring system. The upper-left chart illustrates the current market capitalization and style score of the portfolio relative to indices and/or peers. The upper-right style exposure matrix displays the current portfolio and index weights and stock counts (in parentheses) in each region/style segment of the market. The middle chart illustrates the total exposures and stock counts in the three style segments, with a legend showing the total growth, value, and "combined Z" (growth - value) scores. The bottom chart exhibits the sector weights as well as the style weights within each sector.

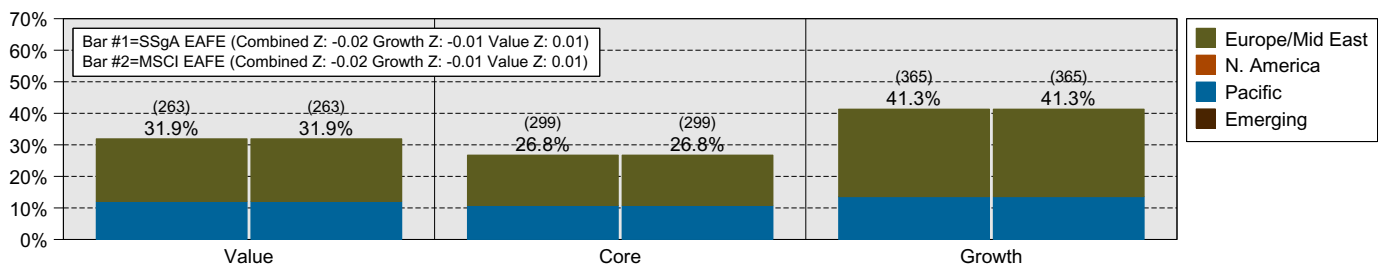
**Style Map vs CAI Non-U.S. Eq. Style Holdings as of September 30, 2016**



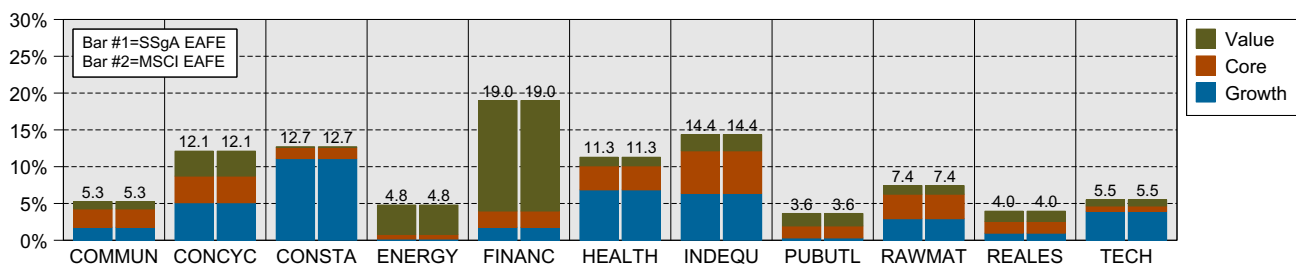
**Style Exposure Matrix Holdings as of September 30, 2016**

	Value	Core	Growth	Total
Europe/ Mid East	19.8% (128)	16.0% (143)	27.7% (186)	63.6% (457)
N. America	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
Pacific	12.1% (135)	10.8% (156)	13.6% (179)	36.4% (470)
Emerging	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
<b>Total</b>	<b>31.9% (263)</b>	<b>26.8% (299)</b>	<b>41.3% (365)</b>	<b>100.0% (927)</b>

**Combined Z-Score Style Distribution Holdings as of September 30, 2016**



**Sector Weights Distribution Holdings as of September 30, 2016**

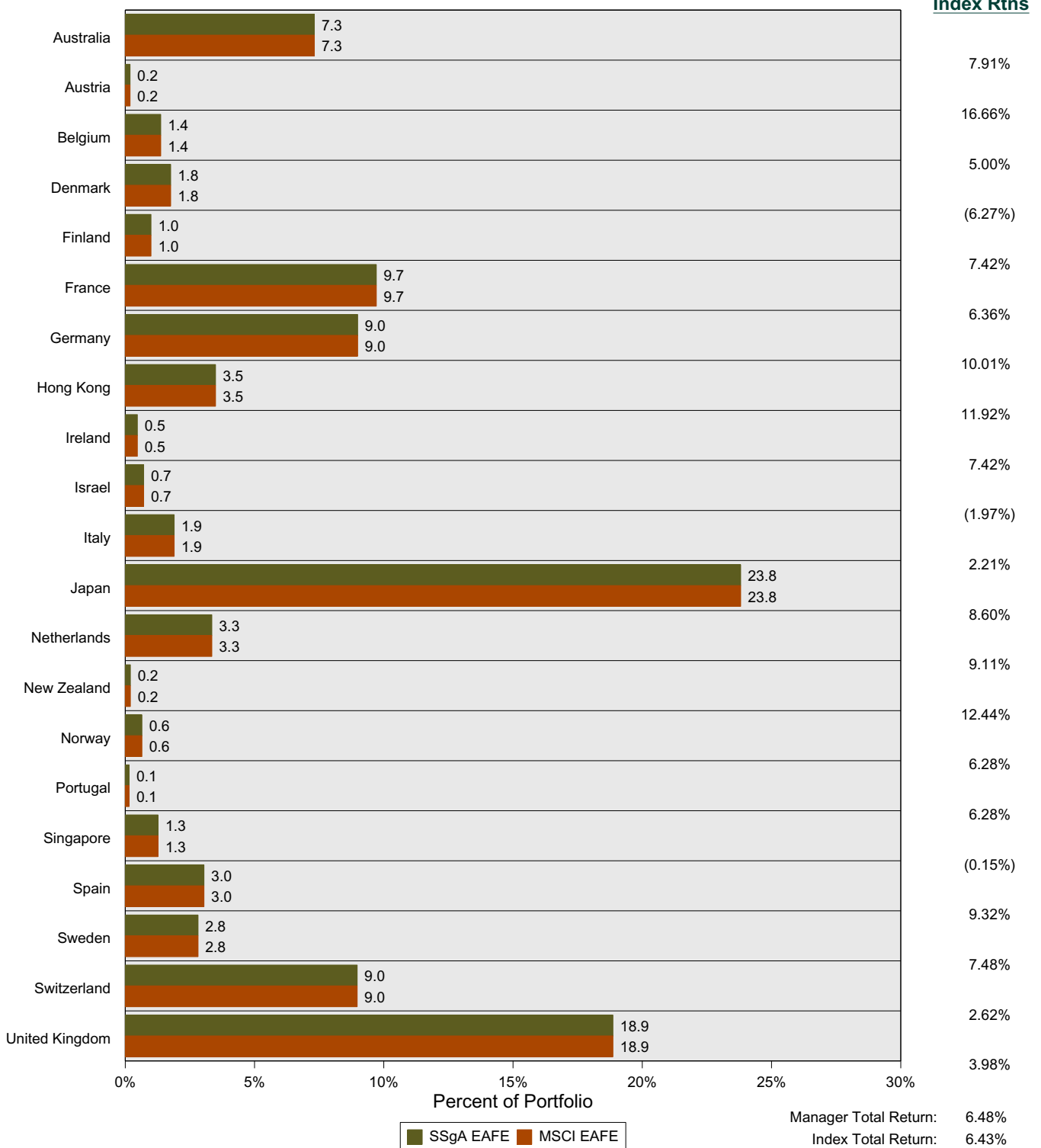


## Country Allocation SSgA EAFE VS MSCI EAFE Index (USD Net Div)

### Country Allocation

The chart below contrasts the portfolio's country allocation with that of the index as of September 30, 2016. This chart is useful because large deviations in country allocation relative to the index are often good predictors of tracking error in the subsequent quarter. To the extent that the portfolio allocation is similar to the index, the portfolio should experience more "index-like" performance. In order to illustrate the performance effect on the portfolio and index of these country allocations, the individual index country returns are also shown.

### Country Weights as of September 30, 2016



## SSgA EAFE Top 10 Portfolio Holdings Characteristics as of September 30, 2016

### 10 Largest Holdings

Stock	Sector	Ending Market Value	Percent of Portfolio	Qtrly Return	Market Capital	Price/Forecasted Earnings Ratio	Dividend Yield	Forecasted Growth in Earnings
Nestle S A Shs Nom New	Consumer Staples	\$186,672	2.0%	2.37%	245.76	21.47	2.94%	5.53%
Novartis	Health Care	\$130,483	1.4%	(4.21)%	207.05	15.79	3.53%	6.78%
Roche Hldgs Ag Basel Div Rts Ctf	Health Care	\$129,498	1.4%	(5.43)%	174.66	15.41	3.36%	8.02%
Toyota Motor Corp	Consumer Discretionary	\$112,988	1.2%	15.88%	190.49	10.31	3.63%	0.50%
Hsbc Holdings (Gb)	Financials	\$110,425	1.2%	22.21%	149.96	12.85	7.18%	0.40%
British American Tobacco	Consumer Staples	\$88,516	1.0%	(0.03)%	119.39	18.57	3.16%	11.60%
Bp Plc Shs	Energy	\$80,814	0.9%	1.61%	110.58	16.62	6.26%	18.83%
Royal Dutch Shell A Shs	Energy	\$78,811	0.9%	(7.40)%	108.87	14.33	7.63%	15.60%
Total Sa Act	Energy	\$78,388	0.8%	(0.20)%	118.62	11.50	5.79%	(2.55)%
Anheuser-Busch Inbev Sa Shs	Consumer Staples	\$78,122	0.8%	0.29%	210.73	28.91	2.28%	5.30%

### 10 Best Performers

Stock	Sector	Ending Market Value	Percent of Portfolio	Qtrly Return	Market Capital	Price/Forecasted Earnings Ratio	Dividend Yield	Forecasted Growth in Earnings
Nintendo Ltd Ord	Information Technology	\$22,077	0.2%	84.80%	37.22	47.97	0.56%	(14.00)%
Brother Industries	Information Technology	\$3,042	0.0%	65.75%	4.83	13.53	2.04%	11.24%
South32 Ltd Common Stock Npv	Materials	\$7,280	0.1%	61.78%	9.82	21.95	0.54%	7.20%
Zalando	Consumer Discretionary	\$2,677	0.0%	54.96%	10.20	52.27	0.00%	26.25%
Fujitsu	Information Technology	\$7,366	0.1%	47.38%	11.04	11.66	1.48%	10.74%
Hitachi High-Techs.	Information Technology	\$2,024	0.0%	47.29%	5.46	14.96	1.62%	42.72%
Allied Mining & Proc.	Materials	\$4,373	0.0%	46.10%	11.79	12.10	3.03%	2.15%
Lanxess	Materials	\$4,217	0.0%	42.93%	5.69	19.56	0.90%	17.15%
Nsk Ltd Shs	Industrials	\$3,313	0.0%	41.66%	5.59	11.79	3.31%	(5.32)%
Stmicroelectronics N V Shs	Information Technology	\$3,859	0.0%	41.01%	7.44	22.25	3.51%	35.39%

### 10 Worst Performers

Stock	Sector	Ending Market Value	Percent of Portfolio	Qtrly Return	Market Capital	Price/Forecasted Earnings Ratio	Dividend Yield	Forecasted Growth in Earnings
Ono Pharmaceutical Co	Health Care	\$8,475	0.1%	(35.40)%	16.33	21.58	1.28%	36.26%
Capita Plc Shs	Industrials	\$4,301	0.0%	(32.32)%	5.81	9.05	4.82%	3.58%
Cyberdyne	Health Care	\$1,191	0.0%	(30.47)%	2.14	379.27	0.00%	-
Aggreko Plc Shs New	Industrials	\$2,352	0.0%	(26.83)%	3.17	13.29	2.84%	3.90%
Sp Telecom.	Telecommunications	\$1,660	0.0%	(25.55)%	5.60	18.53	1.68%	16.80%
Ingenico Group Sa Shs	Information Technology	\$3,557	0.0%	(25.15)%	5.37	16.57	1.67%	9.00%
Noble Group Ltd Shs	Industrials	\$724	0.0%	(24.98)%	1.48	4.44	6.25%	(11.37)%
Taro Pharmaceutical Inds Ltd Shs	Health Care	\$1,228	0.0%	(24.10)%	4.73	8.75	0.00%	24.44%
First Wine Fund	Telecommunications	\$1,781	0.0%	(23.67)%	2.94	15.23	2.49%	17.68%
Pearson Plc Ord	Consumer Discretionary	\$5,959	0.1%	(22.75)%	8.04	12.09	6.91%	(0.20)%

# JP Morgan Period Ended September 30, 2016

## Investment Philosophy

JPMorgan adds value by using the best ideas of their regional specialist teams, overlaid by global sector research, combined with the application of disciplined portfolio construction and formal risk control. The first full quarter of performance is 1Q 2008.

## Quarterly Summary and Highlights

- JP Morgan's portfolio posted a 8.53% return for the quarter placing it in the 16 percentile of the CAI Non-U.S. Equity Style group for the quarter and in the 37 percentile for the last year.
- JP Morgan's portfolio outperformed the MSCI EAFE by 2.10% for the quarter and outperformed the MSCI EAFE for the year by 2.50%.

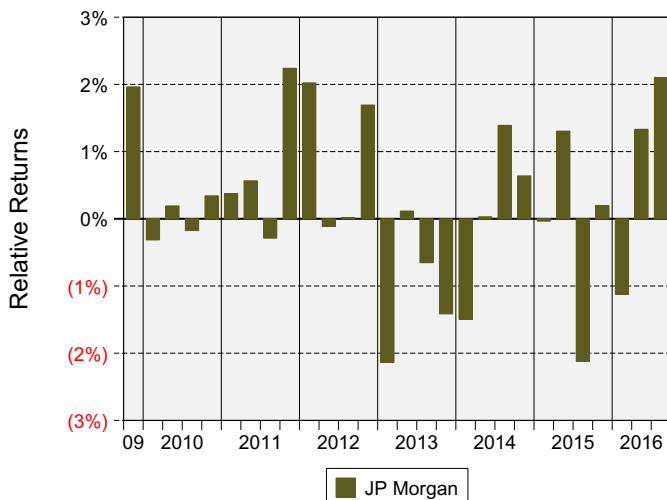
## Quarterly Asset Growth

Beginning Market Value	\$21,281,757
Net New Investment	\$0
Investment Gains/(Losses)	\$1,816,393
Ending Market Value	\$23,098,150

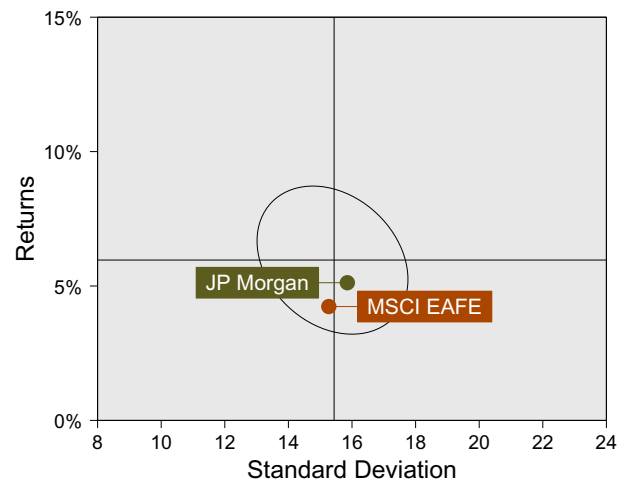
## Performance vs CAI Non-U.S. Equity Style (Gross)



## Relative Return vs MSCI EAFE



## CAI Non-U.S. Equity Style (Gross) Annualized Seven Year Risk vs Return



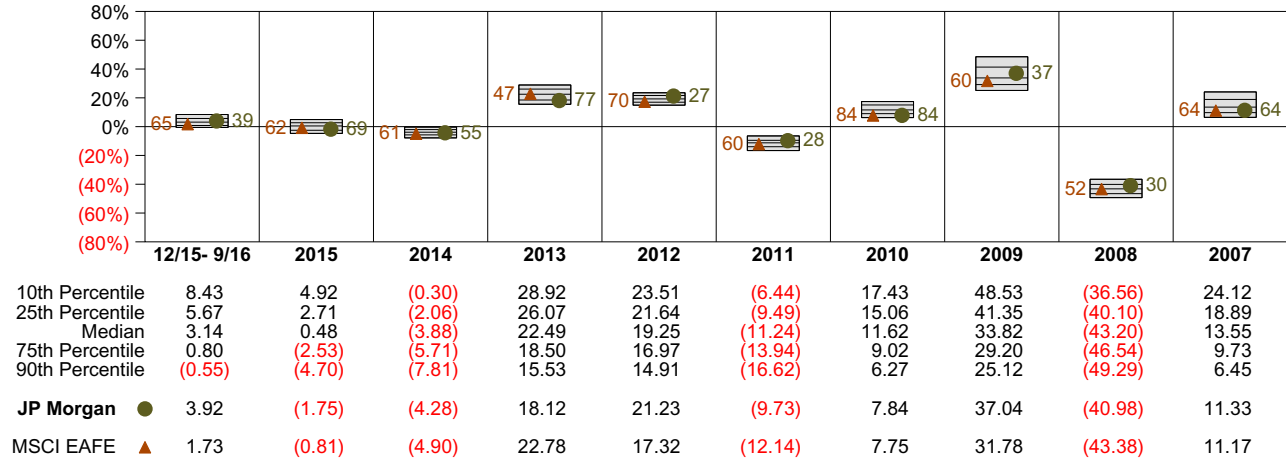


# JP Morgan Return Analysis Summary

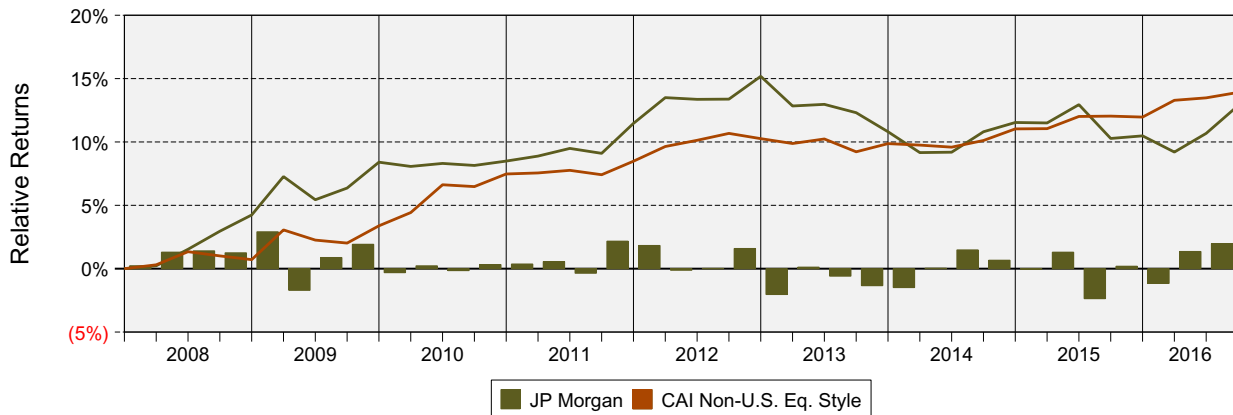
## Return Analysis

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.

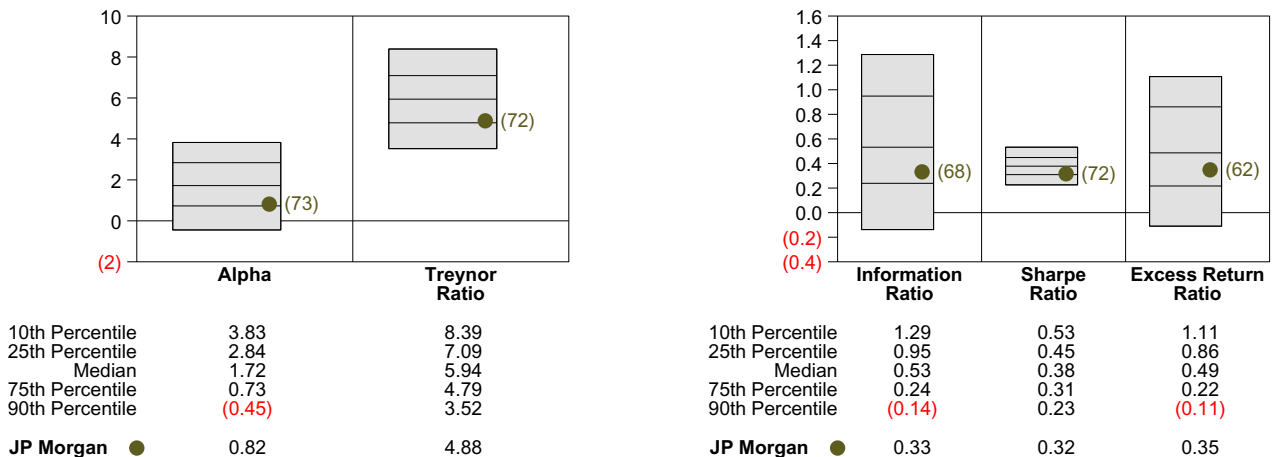
### Performance vs CAI Non-U.S. Equity Style (Gross)



### Cumulative and Quarterly Relative Return vs MSCI EAFE



### Risk Adjusted Return Measures vs MSCI EAFE Rankings Against CAI Non-U.S. Equity Style (Gross) Seven Years Ended September 30, 2016

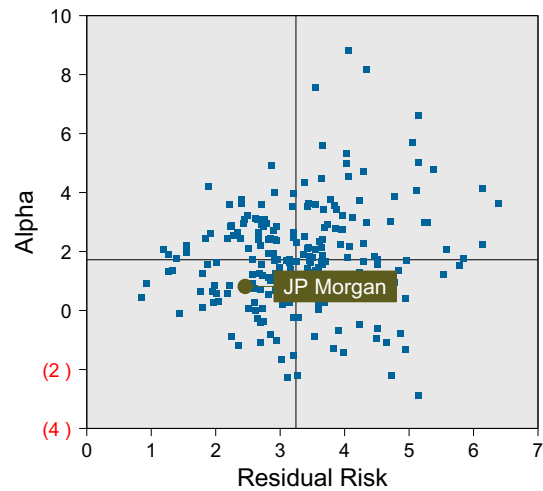
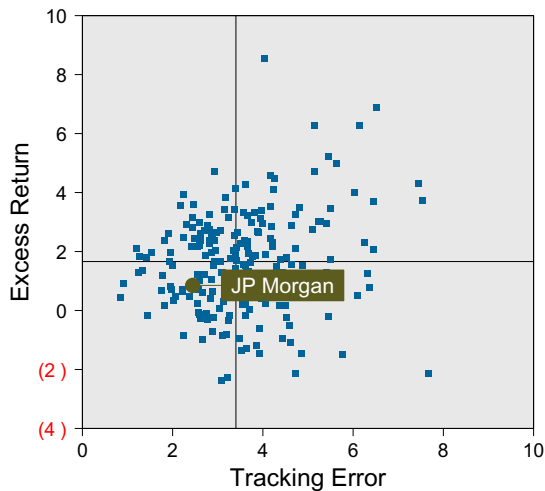


# JP Morgan Risk Analysis Summary

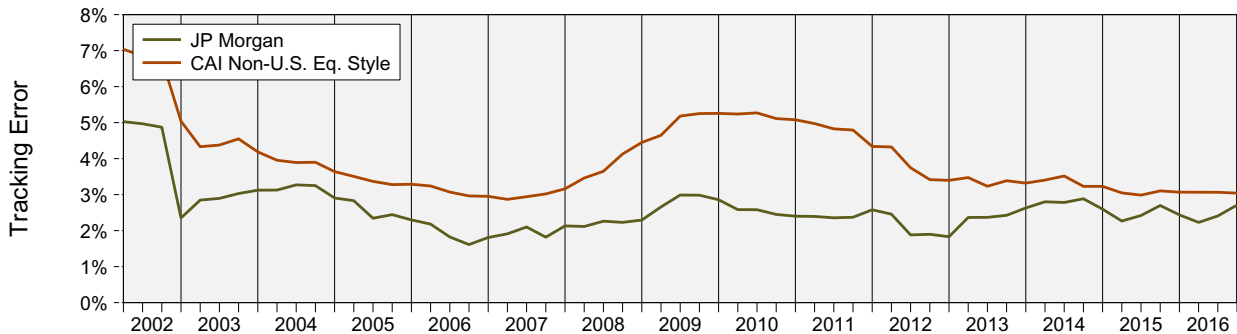
## Risk Analysis

The graphs below analyze the risk or variation of a manager's return pattern. The first scatter chart illustrates the relationship, called Excess Return Ratio, between excess return and tracking error relative to the benchmark. The second scatter chart displays the relationship, sometimes called Information Ratio, between alpha (market-risk or "beta" adjusted return) and residual risk (non-market or "unsystematic" risk). The third chart shows tracking error patterns versus the benchmark over time. The last two charts show the ranking of the manager's risk statistics versus the peer group.

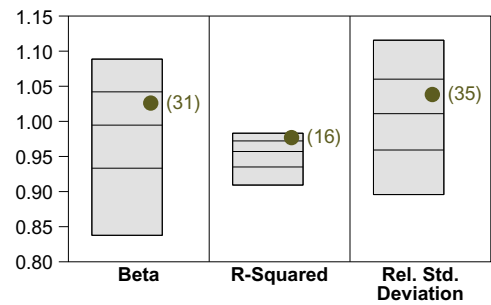
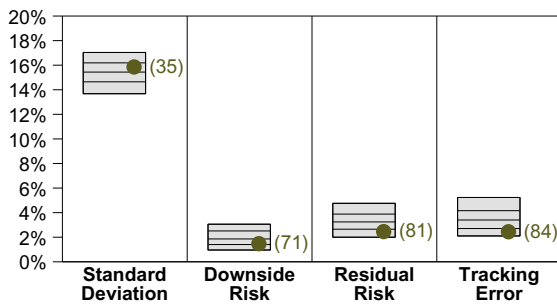
### Risk Analysis vs CAI Non-U.S. Equity Style (Gross) Seven Years Ended September 30, 2016



### Rolling 12 Quarter Tracking Error vs MSCI EAFE Index (USD Net Div)



### Risk Statistics Rankings vs MSCI EAFE Index (USD Net Div) Rankings Against CAI Non-U.S. Equity Style (Gross) Seven Years Ended September 30, 2016



	Standard Deviation	Downside Risk	Residual Risk	Tracking Error
10th Percentile	17.04	3.06	4.76	5.23
25th Percentile	16.19	2.51	3.88	4.16
Median	15.44	1.86	3.24	3.40
75th Percentile	14.65	1.40	2.65	2.71
90th Percentile	13.68	0.96	2.00	2.10
<b>JP Morgan</b>	<b>15.85</b>	<b>1.47</b>	<b>2.46</b>	<b>2.44</b>

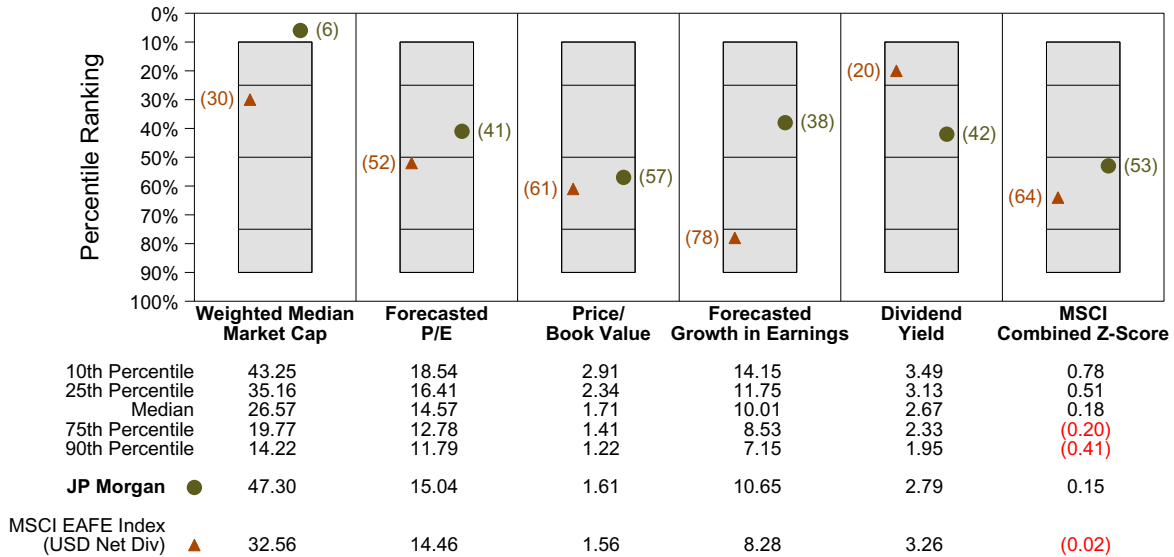
	Beta	R-Squared	Rel. Std. Deviation
10th Percentile	1.09	0.98	1.12
25th Percentile	1.04	0.97	1.06
Median	0.99	0.96	1.01
75th Percentile	0.93	0.94	0.96
90th Percentile	0.84	0.91	0.90
<b>JP Morgan</b>	<b>1.03</b>	<b>0.98</b>	<b>1.04</b>

# JP Morgan Equity Characteristics Analysis Summary

## Portfolio Characteristics

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.

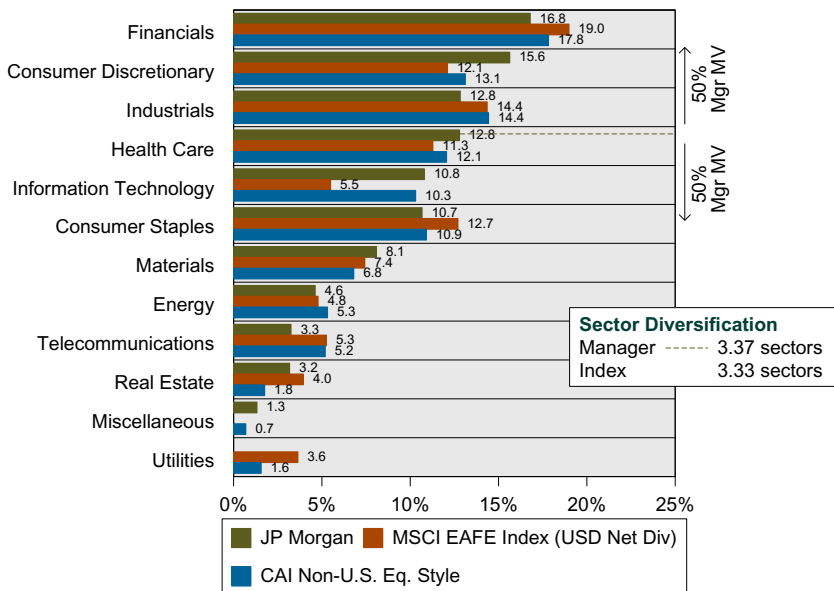
## Portfolio Characteristics Percentile Rankings Rankings Against CAI Non-U.S. Equity Style as of September 30, 2016



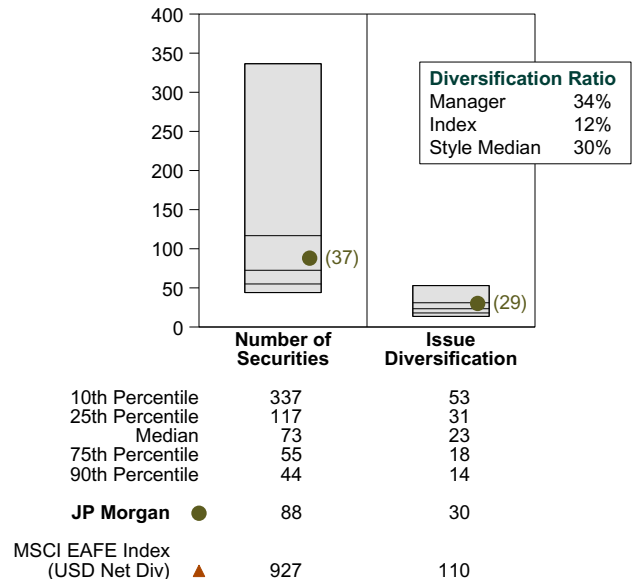
## Sector Weights

The graph below contrasts the manager's sector weights with those of the benchmark and median sector weights across the members of the peer group. The magnitude of sector weight differences from the index and the manager's sector diversification are also shown. Diversification by number and concentration of holdings are also compared to the benchmark and peer group. Issue Diversification represents by count, and Diversification Ratio by percent, the number of holdings that account for half of the portfolio's market value.

### Sector Allocation September 30, 2016



### Diversification September 30, 2016



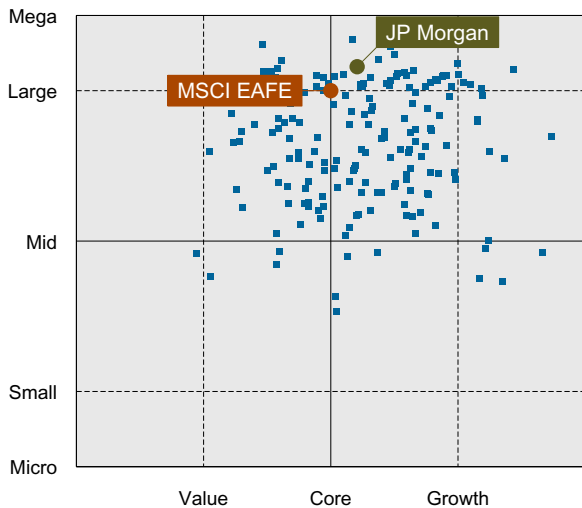
# Current Holdings Based Style Analysis

## JP Morgan

### As of September 30, 2016

This page analyzes the current investment style of a portfolio utilizing a detailed holdings-based style analysis to determine actual exposures to various regional and style segments of the international/global equity market. The market is segmented quarterly by region and style. The style segments are determined using the "Combined Z Score", based on the eight fundamental factors used in the MSCI stock style scoring system. The upper-left chart illustrates the current market capitalization and style score of the portfolio relative to indices and/or peers. The upper-right style exposure matrix displays the current portfolio and index weights and stock counts (in parentheses) in each region/style segment of the market. The middle chart illustrates the total exposures and stock counts in the three style segments, with a legend showing the total growth, value, and "combined Z" (growth - value) scores. The bottom chart exhibits the sector weights as well as the style weights within each sector.

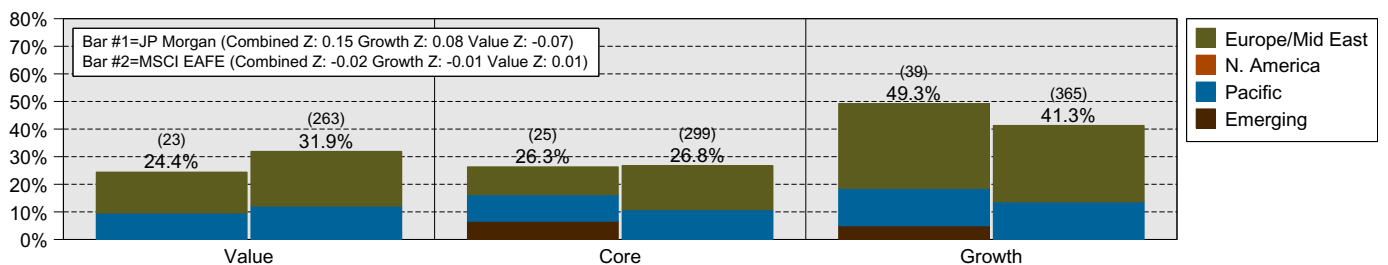
**Style Map vs CAI Non-U.S. Eq. Style Holdings as of September 30, 2016**



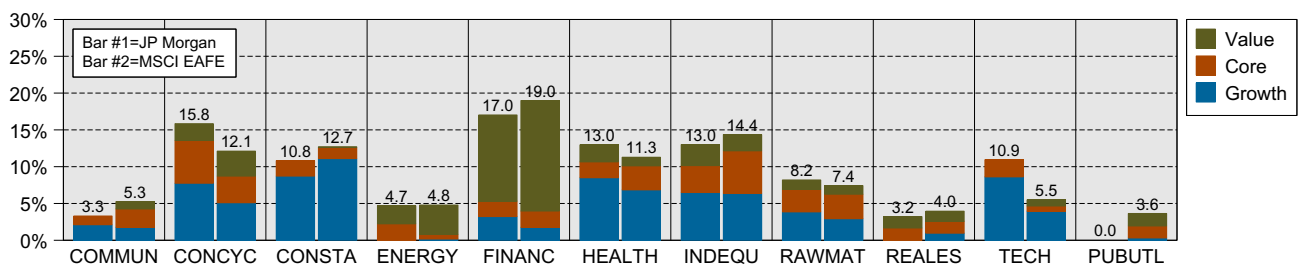
**Style Exposure Matrix Holdings as of September 30, 2016**

	Value	Core	Growth	Total
Europe/ Mid East	14.8% (16)	10.1% (10)	30.8% (23)	55.7% (49)
N. America	19.8% (128)	16.0% (143)	27.7% (186)	63.6% (457)
Pacific	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
Emerging	9.6% (7)	9.6% (9)	13.5% (12)	32.7% (28)
	12.1% (135)	10.8% (156)	13.6% (179)	36.4% (470)
Emerging	0.0% (0)	6.6% (6)	5.0% (4)	11.6% (10)
	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
<b>Total</b>	<b>24.4% (23)</b>	<b>26.3% (25)</b>	<b>49.3% (39)</b>	<b>100.0% (87)</b>
	<b>31.9% (263)</b>	<b>26.8% (299)</b>	<b>41.3% (365)</b>	<b>100.0% (927)</b>

**Combined Z-Score Style Distribution Holdings as of September 30, 2016**



**Sector Weights Distribution Holdings as of September 30, 2016**



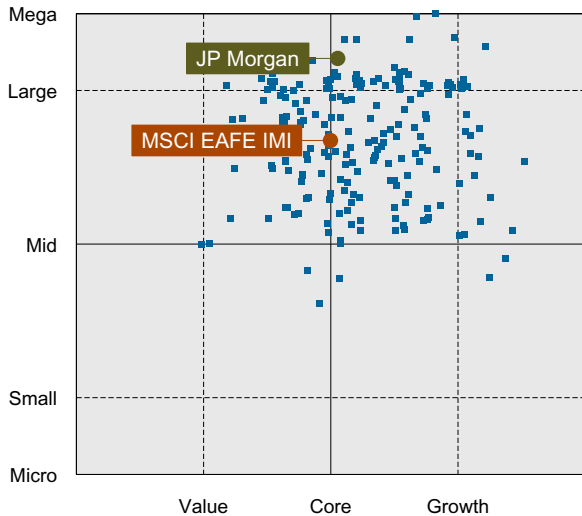
# Historical Holdings Based Style Analysis

## JP Morgan

### For Three Years Ended September 30, 2016

This page analyzes the historical investment style of a portfolio utilizing a detailed holdings-based style analysis to determine average actual exposures to various region and style segments of the international/global equity market. The market is segmented quarterly by region and style. The style segments are determined using the "Combined Z Score", based on the eight fundamental factors used in the MSCI stock style scoring system. The upper-left style map illustrates the average historical market capitalization and style score of the portfolio relative to indices and/or peers. The upper-right style exposure matrix displays the average historical portfolio and index weights and stock counts (in parentheses) in each region/style segment of the market. The next two style exposure charts illustrate the actual quarterly region/style and style only segment exposures of the portfolio through history.

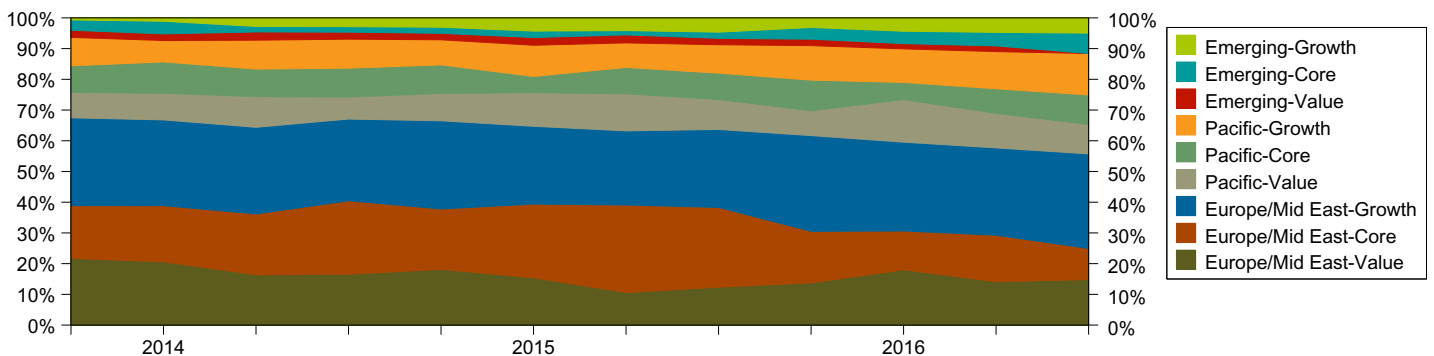
**Average Style Map vs CAI Non-U.S. Eq. Style Holdings for Three Years Ended September 30, 2016**



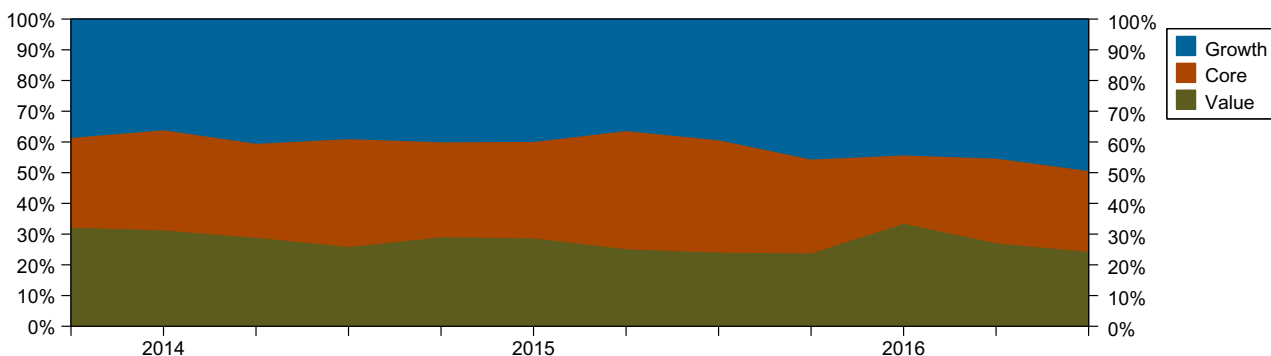
**Average Style Exposure Matrix Holdings for Three Years Ended September 30, 2016**

	Value	Core	Growth	Total
Europe/Mid East	16.0% (13)	19.3% (16)	27.8% (23)	63.2% (52)
	19.4% (437)	19.9% (484)	25.0% (483)	64.3% (1404)
N. America	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
	0.0% (0)	0.0% (1)	0.0% (0)	0.0% (1)
Pacific	9.9% (9)	8.5% (8)	9.9% (10)	28.3% (27)
	11.6% (571)	12.2% (582)	11.9% (525)	35.7% (1678)
Emerging	2.0% (3)	3.1% (3)	3.4% (4)	8.5% (10)
	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
<b>Total</b>	<b>27.9% (25)</b>	<b>31.0% (27)</b>	<b>41.1% (37)</b>	<b>100.0% (89)</b>
	<b>31.0% (1008)</b>	<b>32.2% (1067)</b>	<b>36.9% (1008)</b>	<b>100.0% (3083)</b>

### JP Morgan Historical Region/Style Exposures



### JP Morgan Historical Style Only Exposures

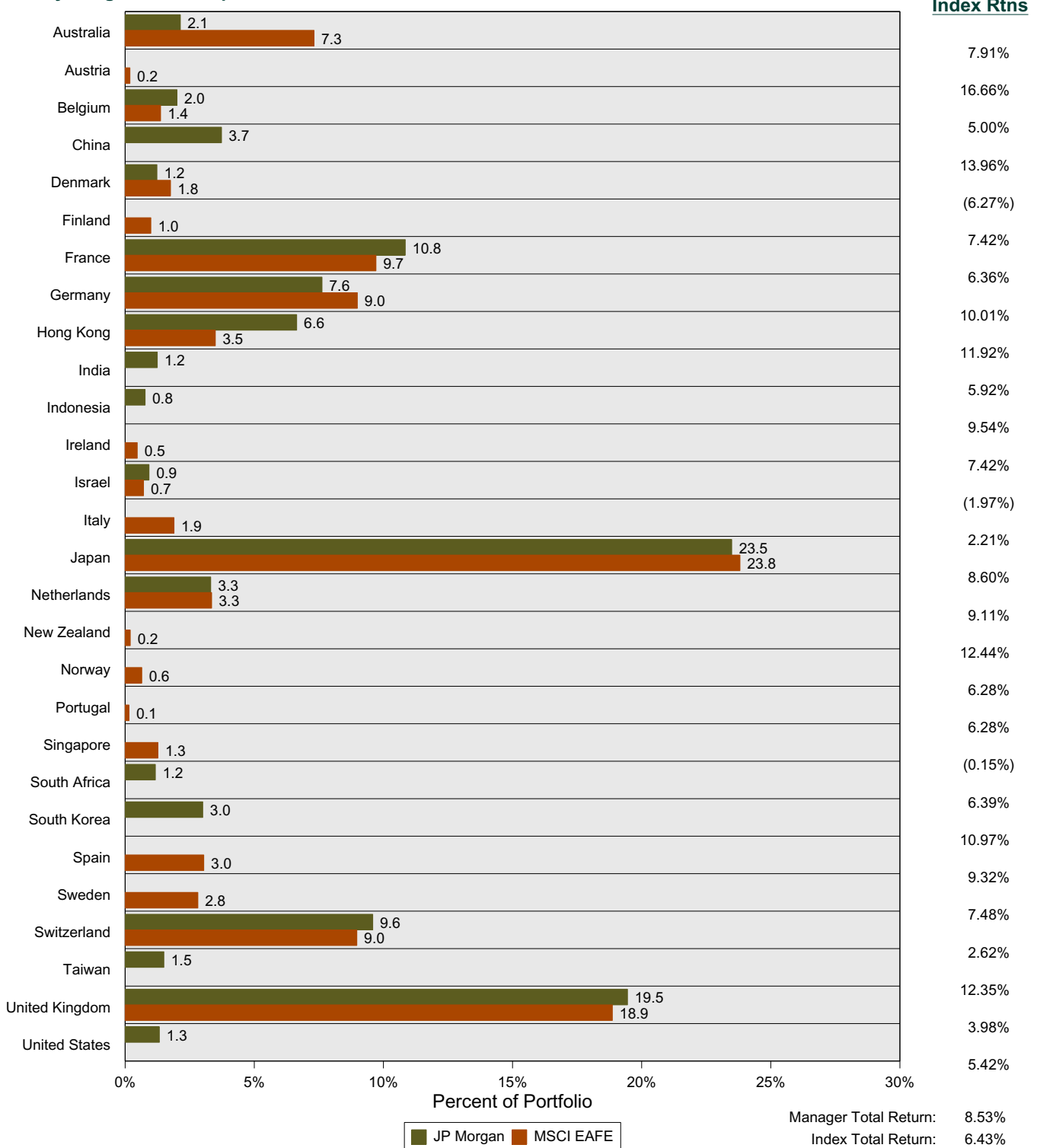


## Country Allocation JP Morgan VS MSCI EAFE Index (USD Net Div)

### Country Allocation

The chart below contrasts the portfolio's country allocation with that of the index as of September 30, 2016. This chart is useful because large deviations in country allocation relative to the index are often good predictors of tracking error in the subsequent quarter. To the extent that the portfolio allocation is similar to the index, the portfolio should experience more "index-like" performance. In order to illustrate the performance effect on the portfolio and index of these country allocations, the individual index country returns are also shown.

### Country Weights as of September 30, 2016



## JP Morgan Top 10 Portfolio Holdings Characteristics as of September 30, 2016

### 10 Largest Holdings

Stock	Sector	Ending Market Value	Percent of Portfolio	Qtrly Return	Market Capital	Price/Forecasted Earnings Ratio	Dividend Yield	Forecasted Growth in Earnings
Samsung Electronics Co Ltd Ord	Information Technology	\$524,952	2.3%	17.37%	205.55	9.59	1.31%	15.21%
Roche Hldgs Ag Basel Div Rts Ctf	Health Care	\$511,148	2.2%	(5.43)%	174.66	15.41	3.36%	8.02%
Novartis	Health Care	\$485,632	2.1%	(4.21)%	207.05	15.79	3.53%	6.78%
Hsbc Holdings (Hk)	Financials	\$480,514	2.1%	22.96%	149.96	12.85	7.18%	0.40%
Vodafone Group Plc New Shs New	Telecommunications	\$475,454	2.1%	(5.35)%	76.66	33.10	5.16%	33.95%
Japan Tobacco Inc Ord	Consumer Staples	\$471,430	2.0%	1.57%	81.35	17.53	3.11%	(0.70)%
Anheuser-Busch Inbev Sa Shs	Consumer Staples	\$457,796	2.0%	0.29%	210.73	28.91	2.28%	5.30%
Prudential	Financials	\$441,587	1.9%	6.64%	45.78	10.89	2.88%	12.50%
Sumitomo Mitsui Finl Grp Inc Shs	Financials	\$431,995	1.9%	19.46%	47.20	6.70	4.44%	2.51%
Royal Dutch Shell A Shs	Energy	\$401,842	1.7%	(7.40)%	108.87	14.33	7.63%	15.60%

### 10 Best Performers

Stock	Sector	Ending Market Value	Percent of Portfolio	Qtrly Return	Market Capital	Price/Forecasted Earnings Ratio	Dividend Yield	Forecasted Growth in Earnings
South32 Ltd Common Stock Npv	Materials	\$25,169	0.1%	61.78%	9.82	21.95	0.54%	7.20%
Glencore International W/I	Materials	\$175,274	0.8%	34.88%	39.67	31.72	0.00%	(41.03)%
Komatsu	Industrials	\$201,144	0.9%	33.17%	22.03	21.79	2.53%	(4.05)%
Nxp Semiconductors	Information Technology	\$168,691	0.7%	30.21%	35.30	14.65	0.00%	27.00%
Lafargeholcim Ltd Namen Akt	Materials	\$258,889	1.1%	30.14%	32.87	18.34	2.36%	48.80%
Sands China Ltd Usd0.01 Reg's'	Consumer Discretionary	\$221,293	1.0%	29.72%	35.01	25.08	5.91%	3.95%
Kering Sa Shs	Consumer Discretionary	\$169,239	0.7%	24.87%	25.48	17.30	2.23%	13.47%
Bhp Billiton Ltd Shs	Materials	\$264,118	1.1%	24.48%	55.00	27.01	1.78%	54.94%
Credit Suisse Group Ord Cl D	Financials	\$72,239	0.3%	23.89%	27.40	14.41	5.51%	28.00%
Hsbc Holdings (Hk)	Financials	\$480,514	2.1%	22.96%	149.96	12.85	7.18%	0.40%

### 10 Worst Performers

Stock	Sector	Ending Market Value	Percent of Portfolio	Qtrly Return	Market Capital	Price/Forecasted Earnings Ratio	Dividend Yield	Forecasted Growth in Earnings
Aggreko Plc Shs New	Industrials	\$69,323	0.3%	(26.83)%	3.17	13.29	2.84%	3.90%
Novo Nordisk B	Health Care	\$280,649	1.2%	(21.51)%	83.65	17.00	2.25%	11.50%
Sanofi Shs	Health Care	\$309,695	1.3%	(8.68)%	97.98	12.36	4.33%	5.35%
Teva Pharmaceutical Inds Ltd Adr	Health Care	\$210,726	0.9%	(7.81)%	48.64	8.13	2.97%	(0.89)%
Royal Dutch Shell A Shs	Energy	\$401,842	1.7%	(7.40)%	108.87	14.33	7.63%	15.60%
Mitsui Fudosan Co Ltd Shs	Real Estate	\$196,538	0.9%	(6.59)%	20.91	15.94	1.40%	4.00%
Tullow Oil Plc Shs	Energy	\$33,760	0.1%	(6.20)%	3.00	23.84	0.00%	10.00%
Roche Hldgs Ag Basel Div Rts Ctf	Health Care	\$511,148	2.2%	(5.43)%	174.66	15.41	3.36%	8.02%
Vodafone Group Plc New Shs New	Telecommunications	\$475,454	2.1%	(5.35)%	76.66	33.10	5.16%	33.95%
Novartis	Health Care	\$485,632	2.1%	(4.21)%	207.05	15.79	3.53%	6.78%

# DFA Emerging Markets Period Ended September 30, 2016

## Investment Philosophy

DFA Performance prior to 6/30/2013 is linked to published fund returns.

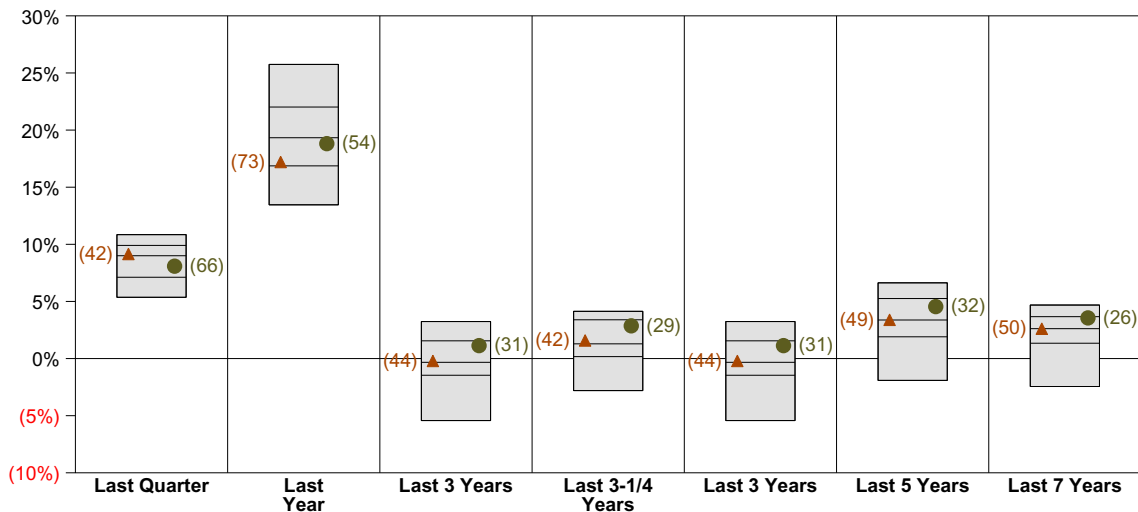
### Quarterly Summary and Highlights

- DFA Emerging Markets's portfolio posted a 8.09% return for the quarter placing it in the 66 percentile of the CAI Emerging Markets Equity Mut Funds group for the quarter and in the 54 percentile for the last year.
- DFA Emerging Markets's portfolio underperformed the MSCI EM Gross by 1.07% for the quarter and outperformed the MSCI EM Gross for the year by 1.60%.

### Quarterly Asset Growth

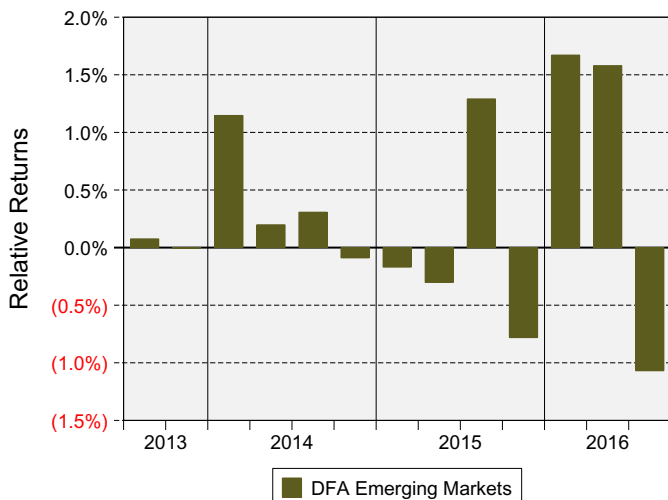
Beginning Market Value	\$12,537,203
Net New Investment	\$137,839
Investment Gains/(Losses)	\$1,003,710
Ending Market Value	\$13,678,752

### Performance vs CAI Emerging Markets Equity Mut Funds (Net)

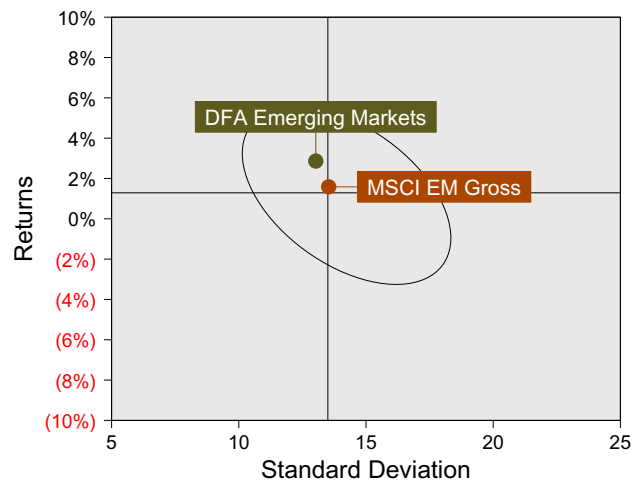


10th Percentile	10.85	25.75	3.24	4.13	3.24	6.63	4.68
25th Percentile	9.91	22.02	1.55	3.39	1.55	5.25	3.67
Median	9.00	19.33	(0.33)	1.29	(0.33)	3.37	2.62
75th Percentile	7.12	16.87	(1.46)	0.17	(1.46)	1.91	1.34
90th Percentile	5.36	13.46	(5.43)	(2.80)	(5.43)	(1.91)	(2.45)
<b>DFA Emerging Markets</b>	● 8.09	18.81	1.13	2.87	1.13	4.55	3.56
<b>MSCI EM Gross</b>	▲ 9.15	17.21	(0.21)	1.58	(0.21)	3.39	2.61

### Relative Return vs MSCI EM Gross



### CAI Emerging Markets Equity Mut Funds (Net) Annualized Three and One-Quarter Year Risk vs Return



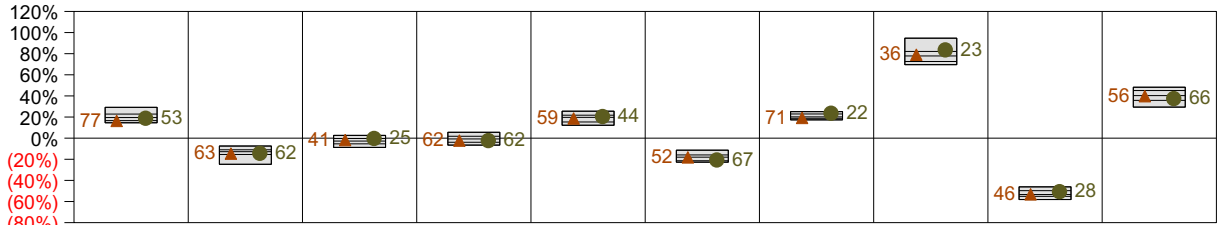


# DFA Emerging Markets Return Analysis Summary

## Return Analysis

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.

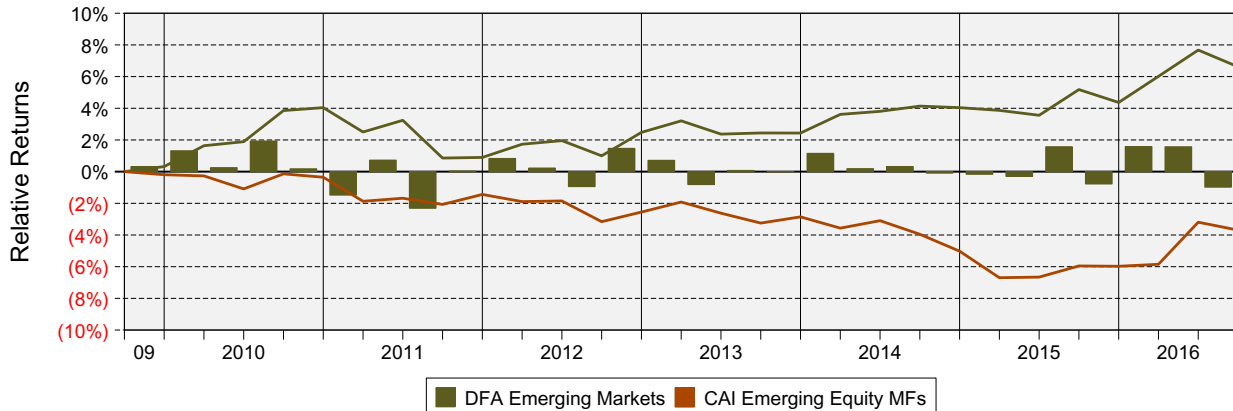
### Performance vs CAI Emerging Markets Equity Mut Funds (Gross)



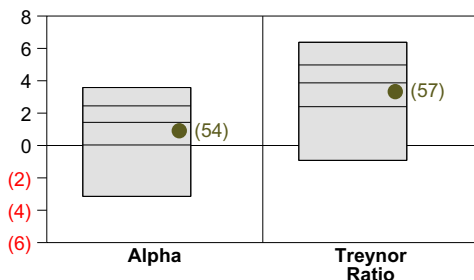
10th Percentile	29.19	(7.46)	2.62	5.56	25.54	(11.40)	25.12	94.66	(46.12)	48.23
25th Percentile	22.80	(11.01)	(0.31)	1.80	21.75	(15.89)	22.90	82.12	(49.72)	45.09
Median	19.52	(12.79)	(2.75)	(0.74)	19.70	(18.02)	20.15	77.86	(53.38)	40.30
75th Percentile	16.62	(15.45)	(5.38)	(3.90)	15.32	(21.39)	18.81	72.60	(55.10)	35.78
90th Percentile	14.58	(24.74)	(8.77)	(6.59)	12.21	(22.72)	17.32	69.59	(58.13)	29.39

<b>DFA Emerging Markets</b>	●	18.87	(14.33)	(0.28)	(2.31)	20.49	(20.65)	23.62	83.58	(50.66)	37.49
<b>MSCI EM Gross</b>	▲	16.36	(14.60)	(1.82)	(2.27)	18.63	(18.17)	19.20	79.02	(53.18)	39.78

### Cumulative and Quarterly Relative Return vs MSCI EM Gross

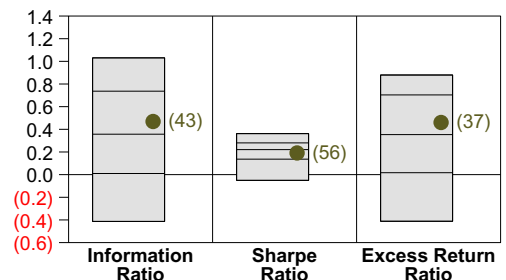


### Risk Adjusted Return Measures vs MSCI EM Gross Rankings Against CAI Emerging Markets Equity Mut Funds (Gross) Seven Years Ended September 30, 2016



10th Percentile	3.58	6.38
25th Percentile	2.45	4.98
Median	1.43	3.87
75th Percentile	0.03	2.40
90th Percentile	(3.14)	(0.92)

<b>DFA Emerging Markets</b>	●	0.91	3.33
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10th Percentile	1.03	0.36	0.88
25th Percentile	0.74	0.28	0.70
Median	0.36	0.22	0.35
75th Percentile	0.01	0.14	0.02
90th Percentile	(0.41)	(0.05)	(0.41)

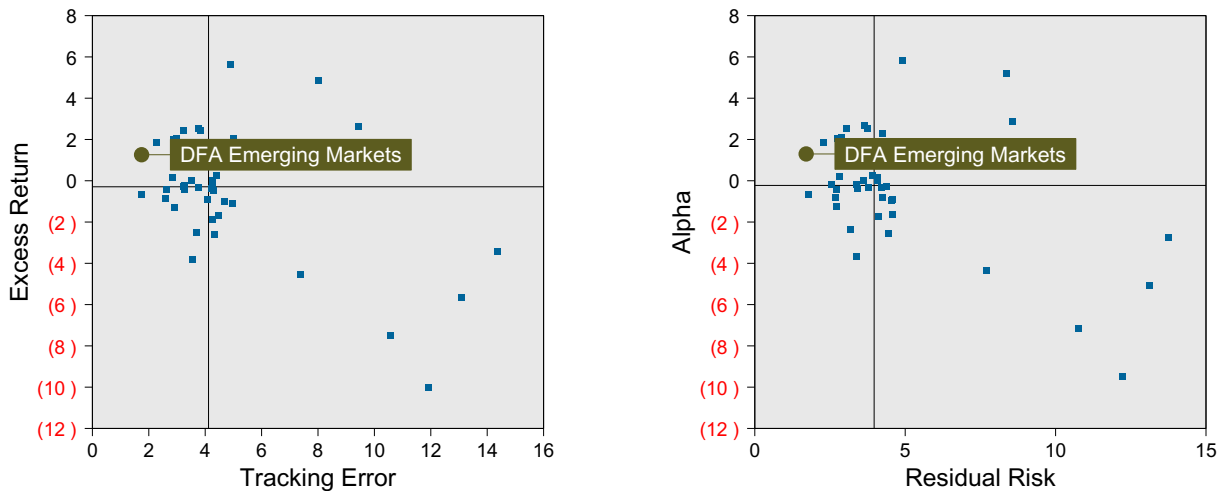
<b>DFA Emerging Markets</b>	●	0.47	0.19	0.46
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# DFA Emerging Markets Risk Analysis Summary

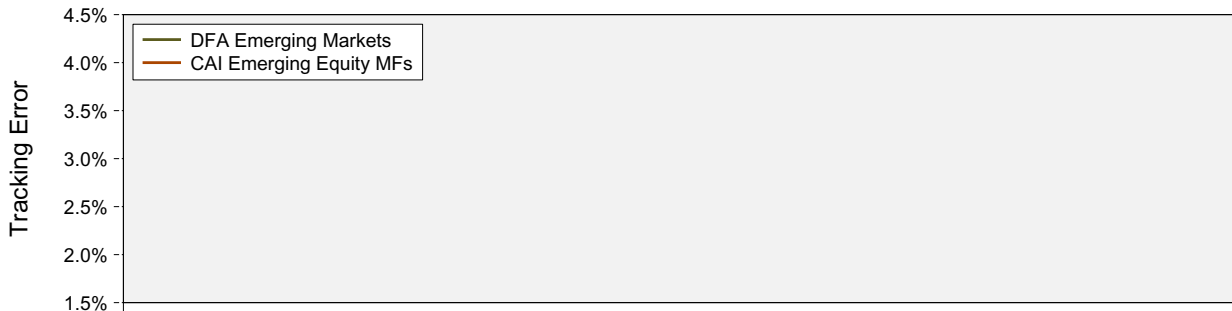
## Risk Analysis

The graphs below analyze the risk or variation of a manager's return pattern. The first scatter chart illustrates the relationship, called Excess Return Ratio, between excess return and tracking error relative to the benchmark. The second scatter chart displays the relationship, sometimes called Information Ratio, between alpha (market-risk or "beta" adjusted return) and residual risk (non-market or "unsystematic" risk). The third chart shows tracking error patterns versus the benchmark over time. The last two charts show the ranking of the manager's risk statistics versus the peer group.

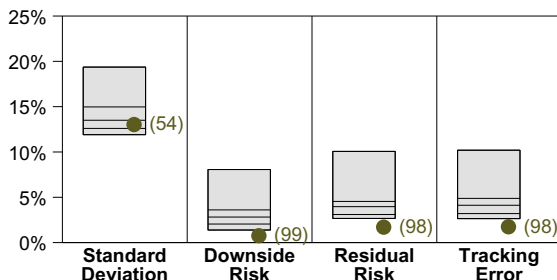
### Risk Analysis vs CAI Emerging Markets Equity Mut Funds (Net) Three and One-Quarter Years Ended September 30, 2016



### Rolling 12 Quarter Tracking Error vs MSCI EM - Emerging Mkts (USD Gross Div)

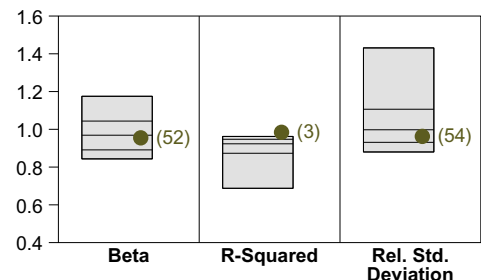


### Risk Statistics Rankings vs MSCI EM - Emerging Mkts (USD Gross Div) Rankings Against CAI Emerging Markets Equity Mut Funds (Net) Three and One-Quarter Years Ended September 30, 2016



	Standard Deviation	Downside Risk	Residual Risk	Tracking Error
10th Percentile	19.37	8.06	10.06	10.20
25th Percentile	14.97	3.61	4.54	4.88
Median	13.50	2.82	3.97	4.12
75th Percentile	12.60	2.05	3.10	3.20
90th Percentile	11.91	1.39	2.67	2.65

DFA Emerging Markets ● 13.03    0.76    1.71    1.75



	Beta	R-Squared	Rel. Std. Deviation
10th Percentile	1.18	0.96	1.43
25th Percentile	1.04	0.95	1.11
Median	0.97	0.92	1.00
75th Percentile	0.89	0.87	0.93
90th Percentile	0.84	0.69	0.88

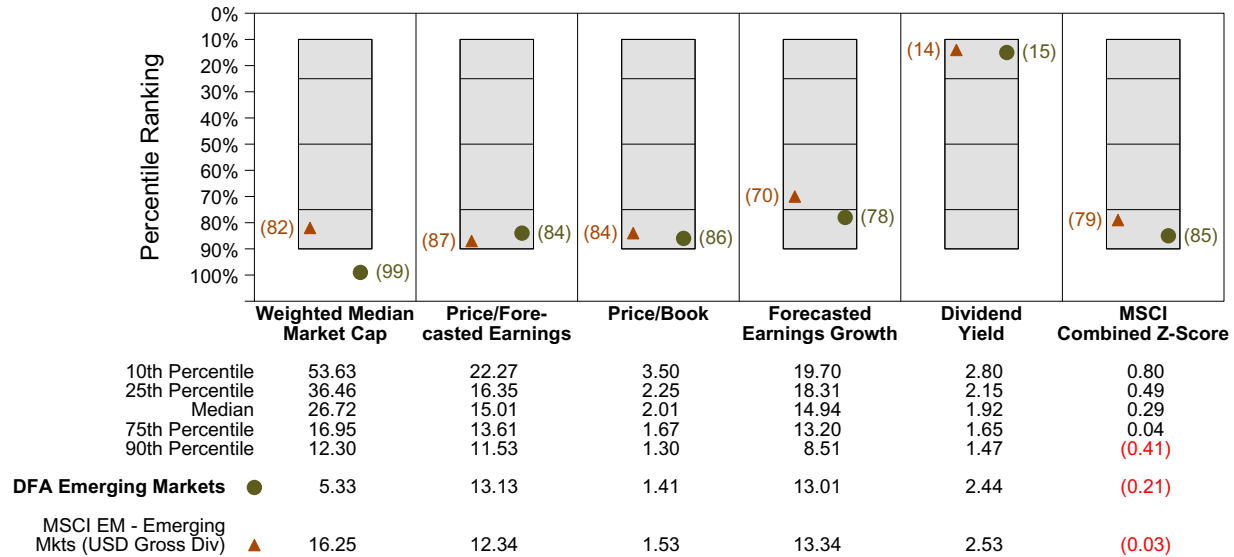
DFA Emerging Markets ● 0.95    0.98    0.96

# DFA Emerging Markets Equity Characteristics Analysis Summary

## Portfolio Characteristics

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.

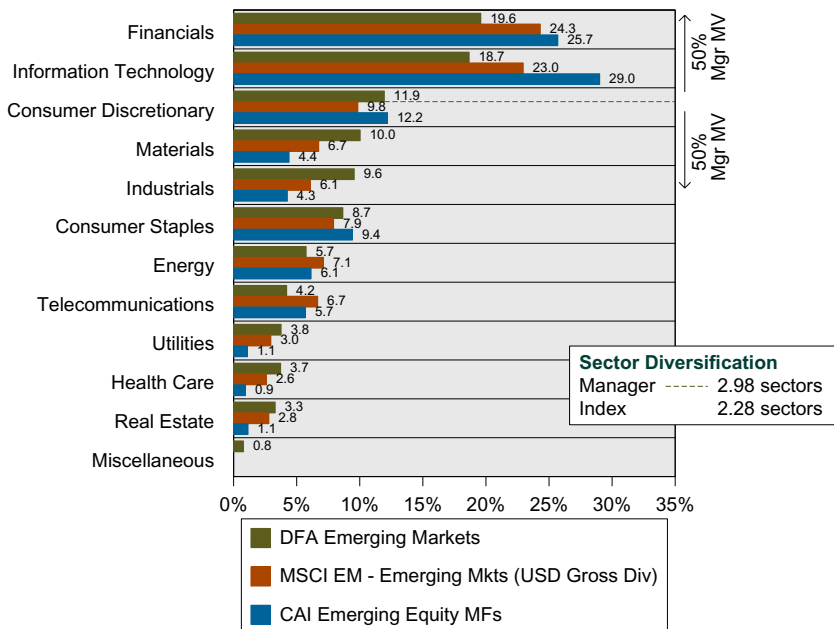
## Portfolio Characteristics Percentile Rankings Rankings Against CAI Emerging Markets Equity Mut Funds as of September 30, 2016



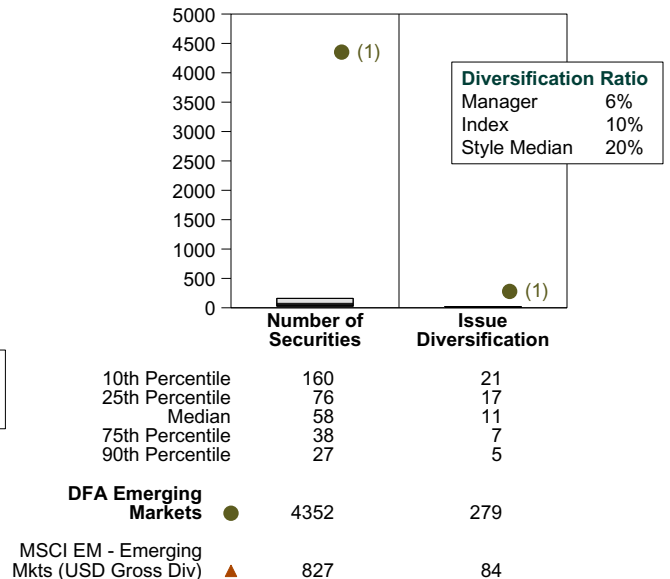
## Sector Weights

The graph below contrasts the manager's sector weights with those of the benchmark and median sector weights across the members of the peer group. The magnitude of sector weight differences from the index and the manager's sector diversification are also shown. Diversification by number and concentration of holdings are also compared to the benchmark and peer group. Issue Diversification represents by count, and Diversification Ratio by percent, the number of holdings that account for half of the portfolio's market value.

### Sector Allocation September 30, 2016



### Diversification September 30, 2016



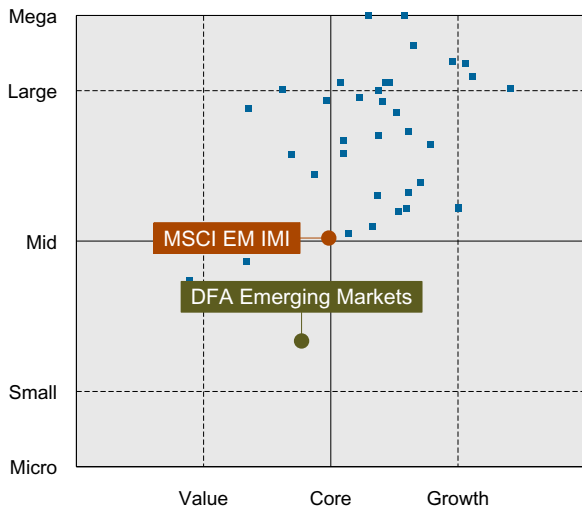
# Current Holdings Based Style Analysis

## DFA Emerging Markets

### As of September 30, 2016

This page analyzes the current investment style of a portfolio utilizing a detailed holdings-based style analysis to determine actual exposures to various regional and style segments of the international/global equity market. The market is segmented quarterly by region and style. The style segments are determined using the "Combined Z Score", based on the eight fundamental factors used in the MSCI stock style scoring system. The upper-left style map illustrates the current market capitalization and style score of the portfolio relative to indices and/or peers. The upper-right style exposure matrix displays the current portfolio and index weights and stock counts (in parentheses) in each region/style segment of the market. The middle chart illustrates the total exposures and stock counts in the three style segments, with a legend showing the total growth, value, and "combined Z" (growth - value) scores. The bottom chart exhibits the sector weights as well as the style weights within each sector.

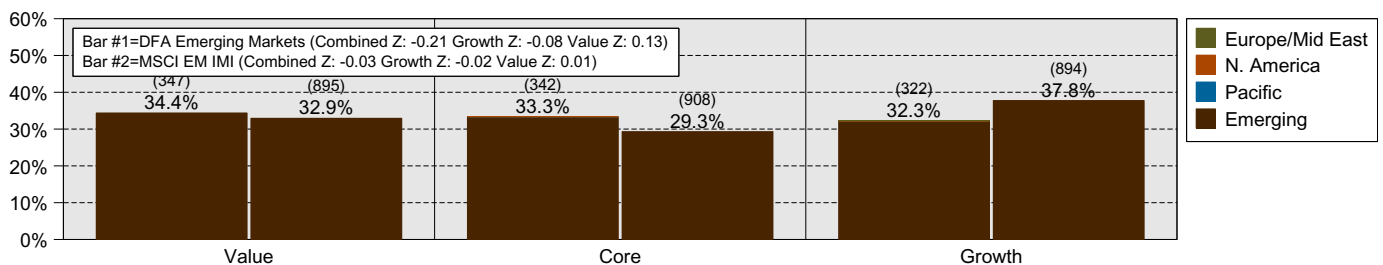
**Style Map vs CAI Emerging Equity MFs Holdings as of September 30, 2016**



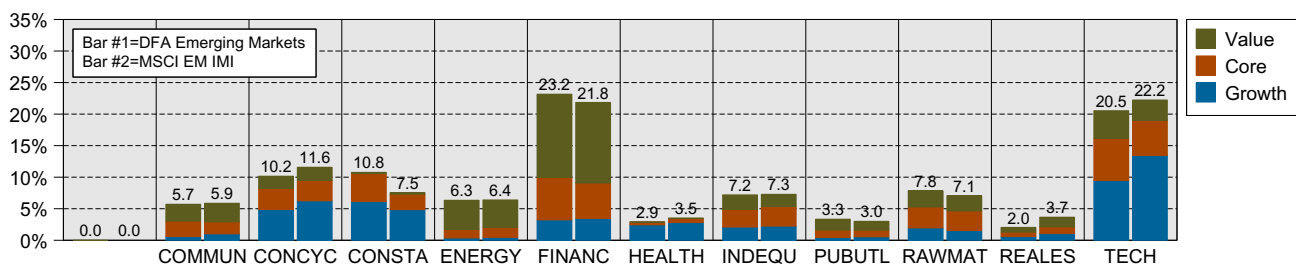
**Style Exposure Matrix Holdings as of September 30, 2016**

	0.0% (0)	0.0% (0)	0.1% (1)	0.1% (1)
Europe/ Mid East	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
N. America	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
Pacific	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
Emerging	34.4% (347)	33.3% (340)	32.2% (320)	99.9% (1007)
	32.9% (895)	29.3% (908)	37.8% (894)	100.0% (2697)
<b>Total</b>	<b>34.4% (347)</b>	<b>33.3% (342)</b>	<b>32.3% (322)</b>	<b>100.0% (1011)</b>
	32.9% (895)	29.3% (908)	37.8% (894)	100.0% (2697)
	Value	Core	Growth	Total

**Combined Z-Score Style Distribution Holdings as of September 30, 2016**



**Sector Weights Distribution Holdings as of September 30, 2016**



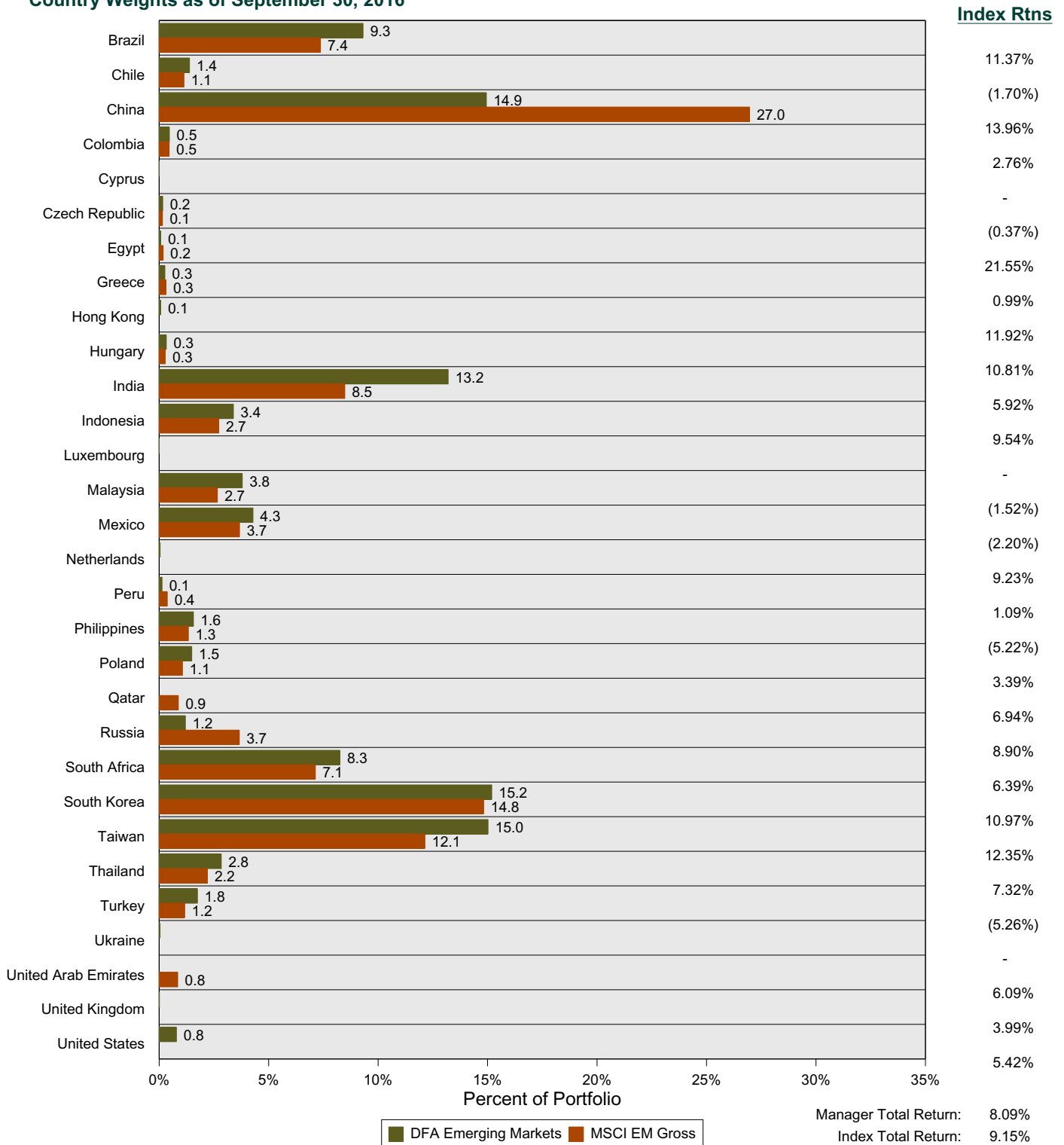
# Country Allocation

## DFA Emerging Markets VS MSCI EM - Emerging Mkts (USD Gross Div)

### Country Allocation

The chart below contrasts the portfolio's country allocation with that of the index as of September 30, 2016. This chart is useful because large deviations in country allocation relative to the index are often good predictors of tracking error in the subsequent quarter. To the extent that the portfolio allocation is similar to the index, the portfolio should experience more "index-like" performance. In order to illustrate the performance effect on the portfolio and index of these country allocations, the individual index country returns are also shown.

Country Weights as of September 30, 2016



## DFA Emerging Markets Top 10 Portfolio Holdings Characteristics as of September 30, 2016

### 10 Largest Holdings

Stock	Sector	Ending Market Value	Percent of Portfolio	Qtrly Return	Market Capital	Price/Forecasted Earnings Ratio	Dividend Yield	Forecasted Growth in Earnings
Samsung Electronics Co Ltd Ord	Information Technology	\$410,803	3.0%	17.37%	205.55	9.59	1.31%	15.21%
Tencent Holdings Limited Shs Par Hkd	Information Technology	\$213,874	1.6%	20.98%	259.97	32.50	0.22%	31.60%
Taiwan Semicond Manufac Co L Shs	Information Technology	\$178,779	1.3%	15.58%	150.97	13.73	3.29%	11.26%
Taiwan Semiconductor Mfg Co Ltd Spon	Information Technology	\$130,726	1.0%	16.62%	150.97	13.73	3.29%	11.26%
China Construction Bank Shs H	Financials	\$130,656	1.0%	12.32%	178.24	5.41	5.70%	2.13%
Hon Hai Precision Inds Ltd Ord	Information Technology	\$105,230	0.8%	13.51%	43.35	10.29	4.60%	0.42%
China Mobile Limited Sponsored ADR	Telecommunications	\$84,753	0.6%	7.92%	247.76	14.14	3.34%	6.59%
Industrial and Comm BK of Cn Hkd Shs	Financials	\$80,357	0.6%	13.07%	54.27	5.39	5.76%	1.90%
Itau Unibanco Holding Sa Pfd Shs	Financials	\$79,014	0.6%	17.03%	32.11	9.69	4.06%	0.33%
Nasionale PERS Beperk Ord CI H	Consumer Discretionary	\$73,376	0.5%	13.17%	75.70	34.83	0.22%	35.80%

### 10 Best Performers

Stock	Sector	Ending Market Value	Percent of Portfolio	Qtrly Return	Market Capital	Price/Forecasted Earnings Ratio	Dividend Yield	Forecasted Growth in Earnings
Tri Polyta Indo.	Industrials	\$20	0.0%	400.00%	3.48	27.18	1.11%	-
Jastrzebska Spolka Weglowa S	Materials	\$3,139	0.0%	218.91%	1.62	21.68	0.00%	(79.20)%
Em Technics Co.	Information Technology	\$1,158	0.0%	208.33%	0.70	59.70	0.00%	-
Chungwha Picture Tubes Ord	Information Technology	\$643	0.0%	166.67%	0.35	(2.00)	0.00%	-
Bh	Information Technology	\$736	0.0%	157.14%	0.16	15.95	0.00%	97.99%
Tong Yang Moolsan	Industrials	\$548	0.0%	150.00%	0.19	(127.39)	0.47%	-
Pan-International	Information Technology	\$2,255	0.0%	148.45%	0.48	17.22	1.20%	-
Great New Wave Comming	Consumer Discretionary	\$2,058	0.0%	140.00%	0.46	97.78	0.00%	-
Kj Pretech	Industrials	\$72	0.0%	137.50%	0.13	(35.09)	0.00%	-
Megawide Construction	Consumer Discretionary	\$392	0.0%	134.69%	0.65	17.21	0.00%	4.07%

### 10 Worst Performers

Stock	Sector	Ending Market Value	Percent of Portfolio	Qtrly Return	Market Capital	Price/Forecasted Earnings Ratio	Dividend Yield	Forecasted Growth in Earnings
Bolina Holding	Industrials	\$53	0.0%	(83.20)%	0.04	-	25.71%	-
Philweb Corp Shs	Consumer Discretionary	\$216	0.0%	(76.39)%	0.14	13.56	11.78%	-
Daewon Scn	Materials	\$40	0.0%	(66.67)%	0.05	302.22	0.00%	-
Xpec Entertainment	Information Technology	\$212	0.0%	(61.78)%	0.18	24.00	0.36%	-
Eletropaulo Eletrecidade Met Shs	Utilities	\$2,762	0.0%	(55.21)%	0.33	14.22	2.46%	(46.09)%
Welspun India	Consumer Discretionary	\$1,556	0.0%	(51.13)%	0.79	6.22	1.35%	-
Solco Biomedical	Health Care	\$168	0.0%	(50.00)%	0.09	(14.31)	0.00%	-
Hyundai Merchant Marine	Industrials	\$183	0.0%	(50.00)%	1.31	(0.53)	0.00%	28.34%
Perisai Ptl.Teknologi	Energy	\$253	0.0%	(48.14)%	0.04	15.00	0.00%	(11.17)%
Baoxin Auto Group	Consumer Discretionary	\$233	0.0%	(43.15)%	0.79	7.59	2.07%	49.73%



# Metropolitan West

## Period Ended September 30, 2016

### Investment Philosophy

Metropolitan West Asset Management (MWAM) attempts to add value by limiting duration, managing the yield curve, rotating among bond market sectors and using proprietary quantitative valuation techniques.

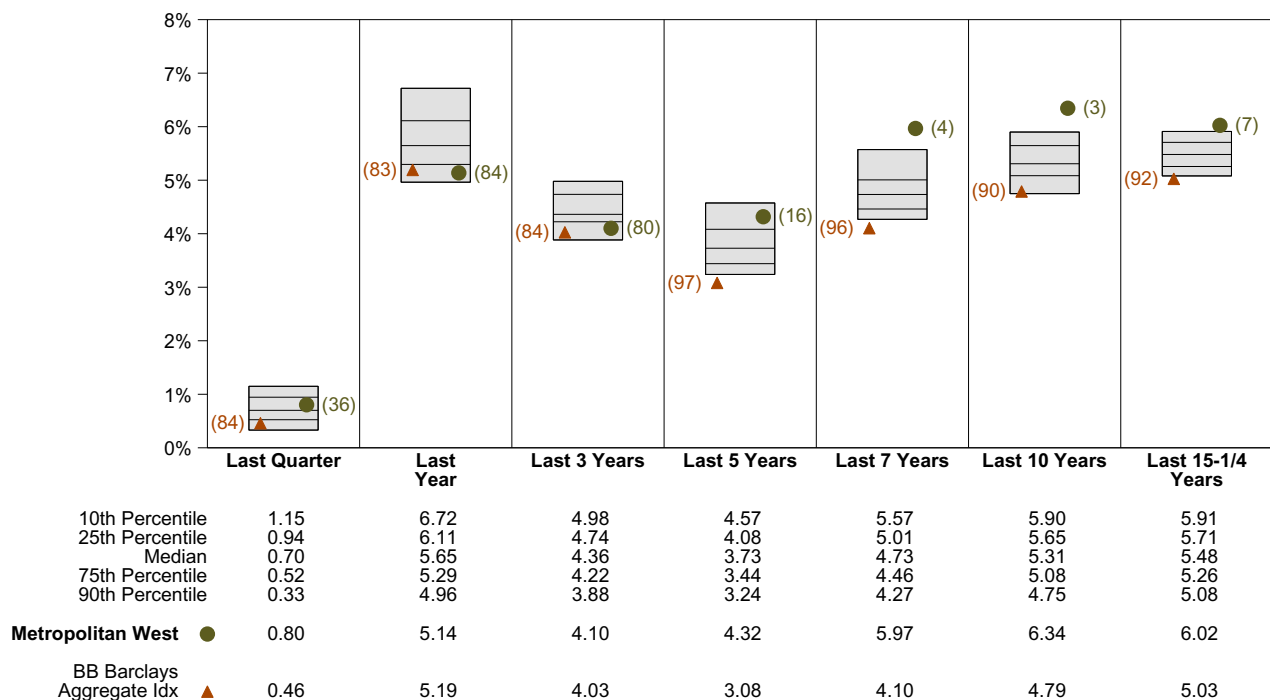
### Quarterly Summary and Highlights

- Metropolitan West's portfolio posted a 0.80% return for the quarter placing it in the 36 percentile of the CAI Core Bond Fixed Income group for the quarter and in the 84 percentile for the last year.
- Metropolitan West's portfolio outperformed the BB Barclays Aggregate Idx by 0.35% for the quarter and underperformed the BB Barclays Aggregate Idx for the year by 0.06%.

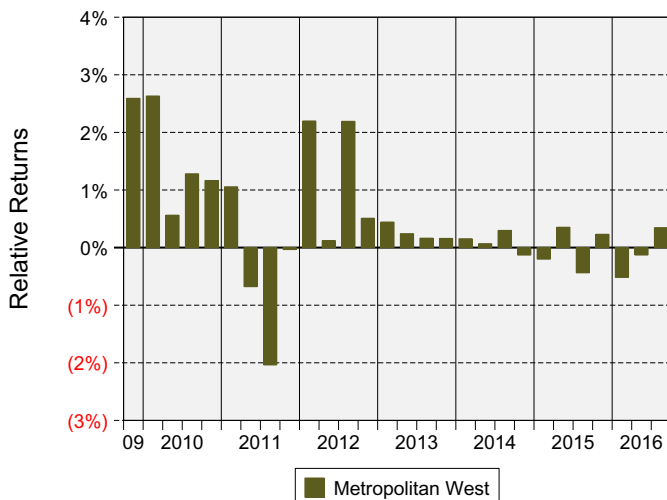
### Quarterly Asset Growth

Beginning Market Value	\$88,160,477
Net New Investment	\$-277,837
Investment Gains/(Losses)	\$708,071
Ending Market Value	\$88,590,711

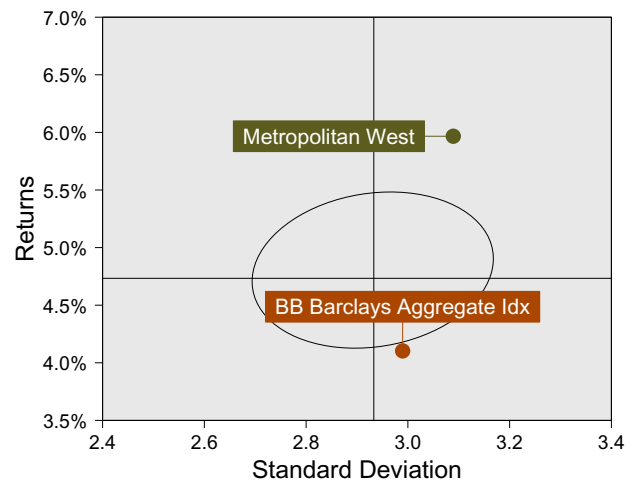
### Performance vs CAI Core Bond Fixed Income (Gross)



### Relative Return vs BB Barclays Aggregate Idx



### CAI Core Bond Fixed Income (Gross) Annualized Seven Year Risk vs Return



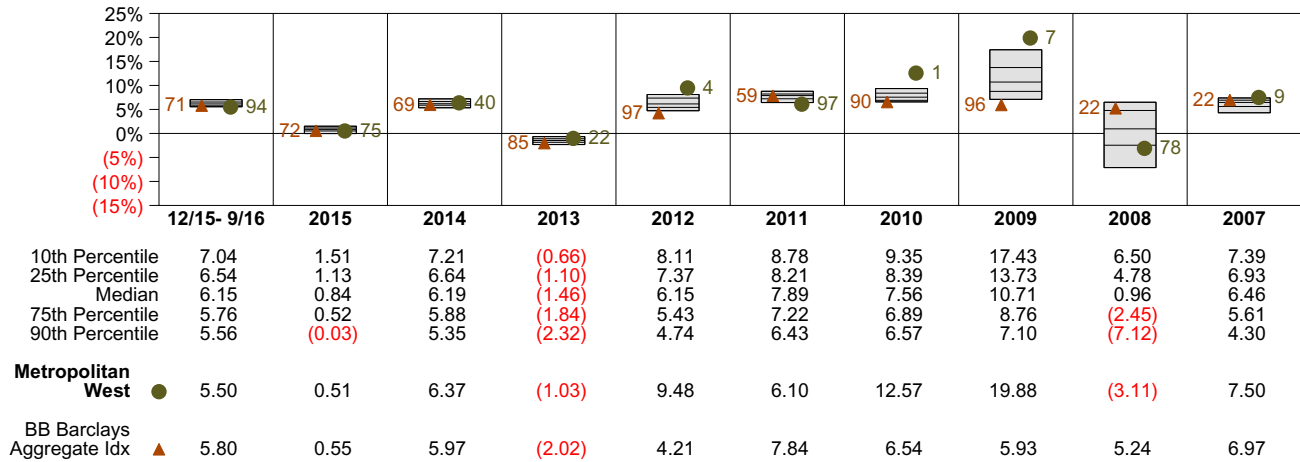


# Metropolitan West Return Analysis Summary

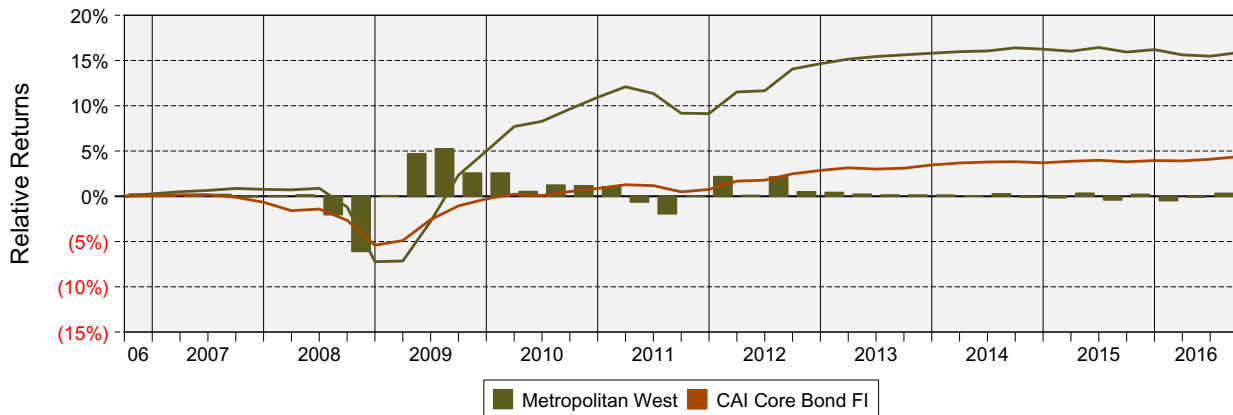
## Return Analysis

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.

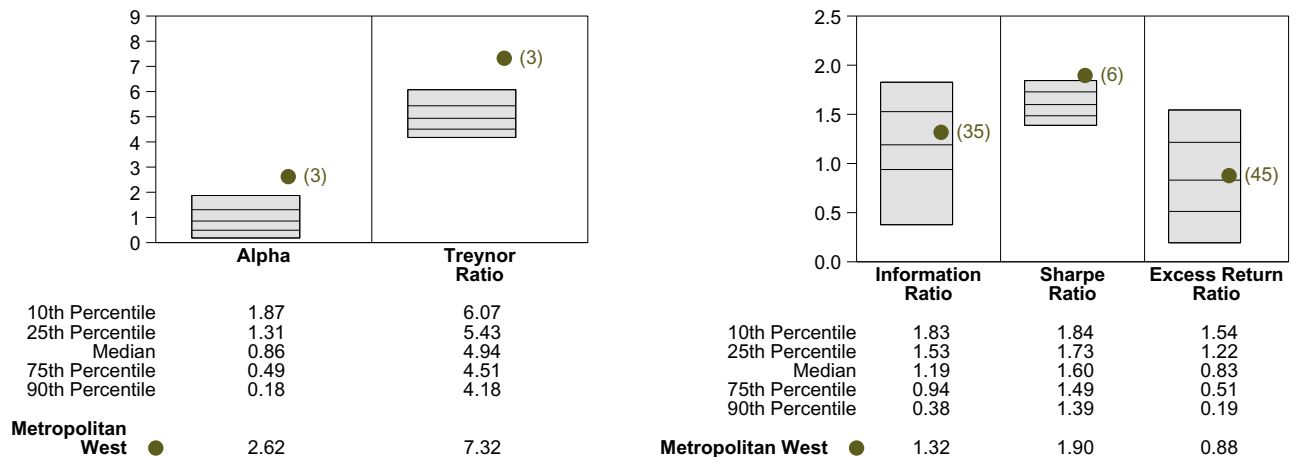
### Performance vs CAI Core Bond Fixed Income (Gross)



### Cumulative and Quarterly Relative Return vs BB Barclays Aggregate Idx



### Risk Adjusted Return Measures vs BB Barclays Aggregate Idx Rankings Against CAI Core Bond Fixed Income (Gross) Seven Years Ended September 30, 2016

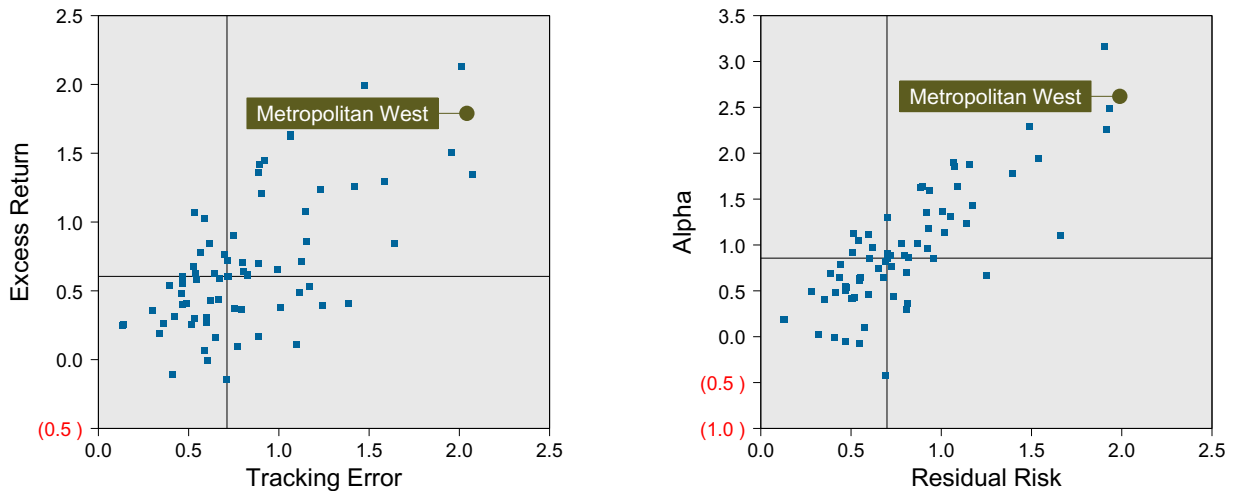


# Metropolitan West Risk Analysis Summary

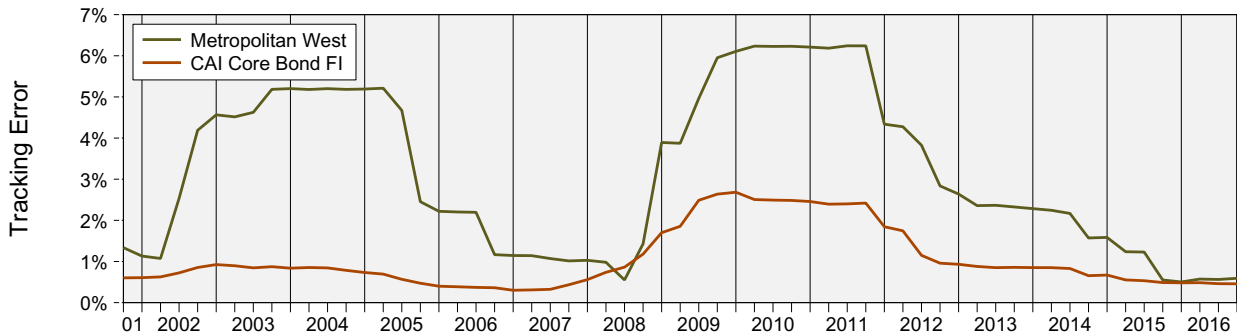
## Risk Analysis

The graphs below analyze the risk or variation of a manager's return pattern. The first scatter chart illustrates the relationship, called Excess Return Ratio, between excess return and tracking error relative to the benchmark. The second scatter chart displays the relationship, sometimes called Information Ratio, between alpha (market-risk or "beta" adjusted return) and residual risk (non-market or "unsystematic" risk). The third chart shows tracking error patterns versus the benchmark over time. The last two charts show the ranking of the manager's risk statistics versus the peer group.

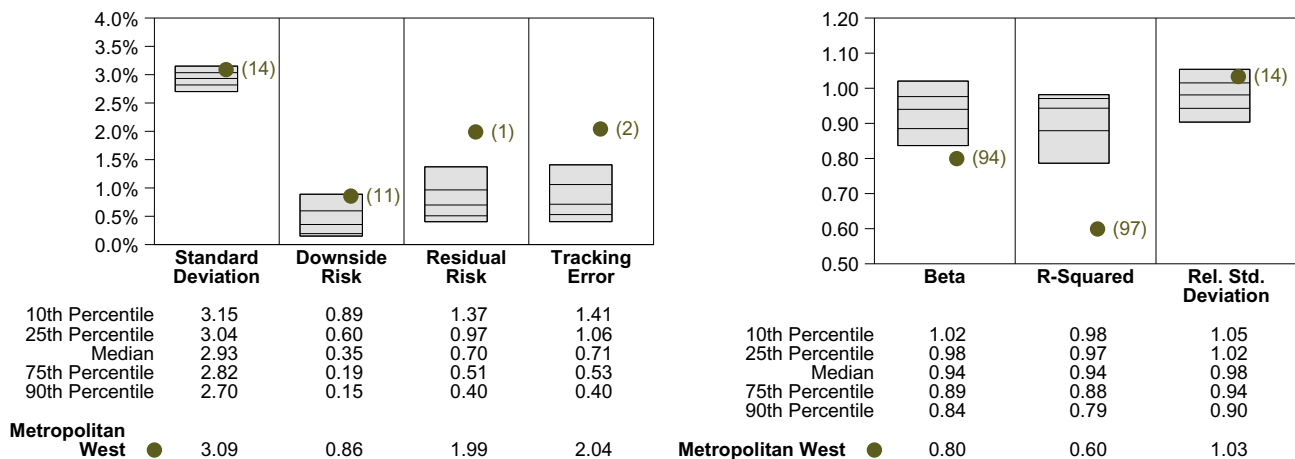
### Risk Analysis vs CAI Core Bond Fixed Income (Gross) Seven Years Ended September 30, 2016



### Rolling 12 Quarter Tracking Error vs Bloomberg Barclays Aggregate Index



### Risk Statistics Rankings vs Bloomberg Barclays Aggregate Index Rankings Against CAI Core Bond Fixed Income (Gross) Seven Years Ended September 30, 2016

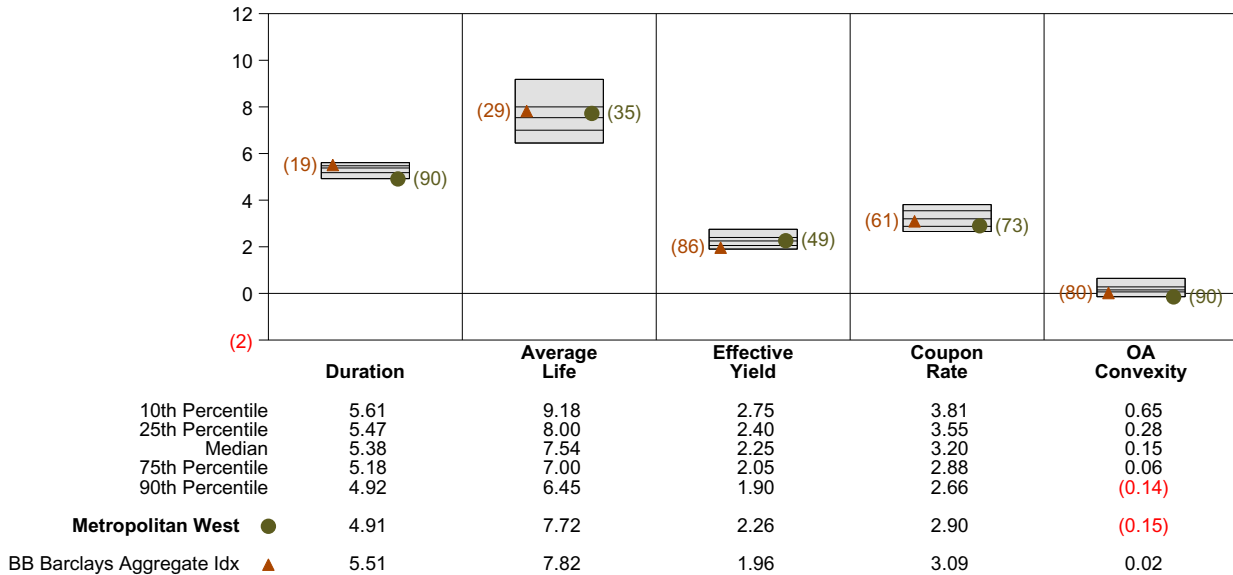


# Metropolitan West Bond Characteristics Analysis Summary

## Portfolio Characteristics

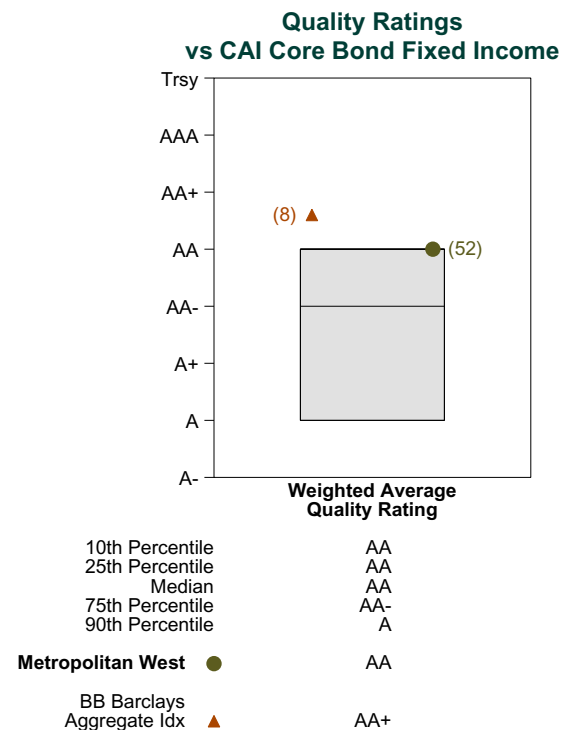
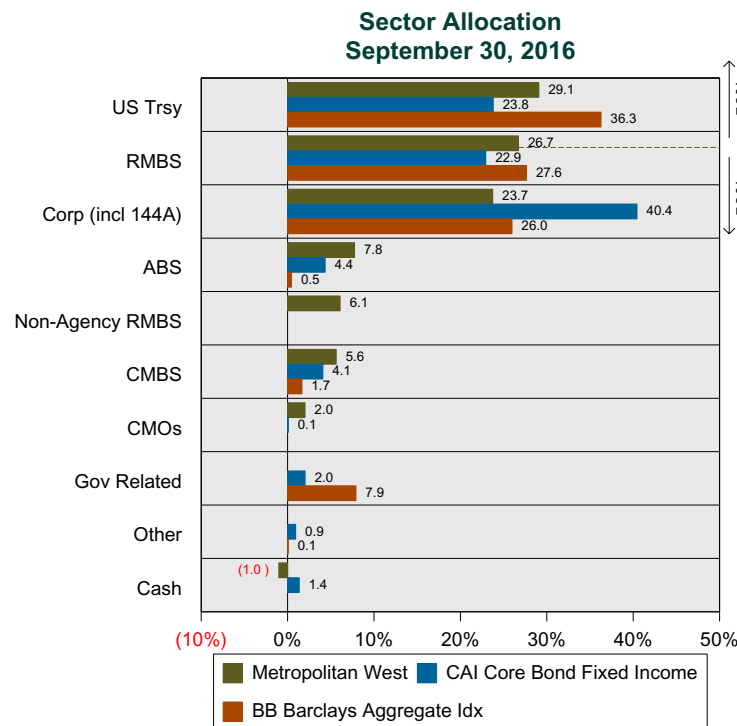
This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.

## Fixed Income Portfolio Characteristics Rankings Against CAI Core Bond Fixed Income as of September 30, 2016



## Sector Allocation and Quality Ratings

The first graph compares the manager's sector allocation with the average allocation across all the members of the manager's style. The second graph compares the manager's weighted average quality rating with the range of quality ratings for the style.

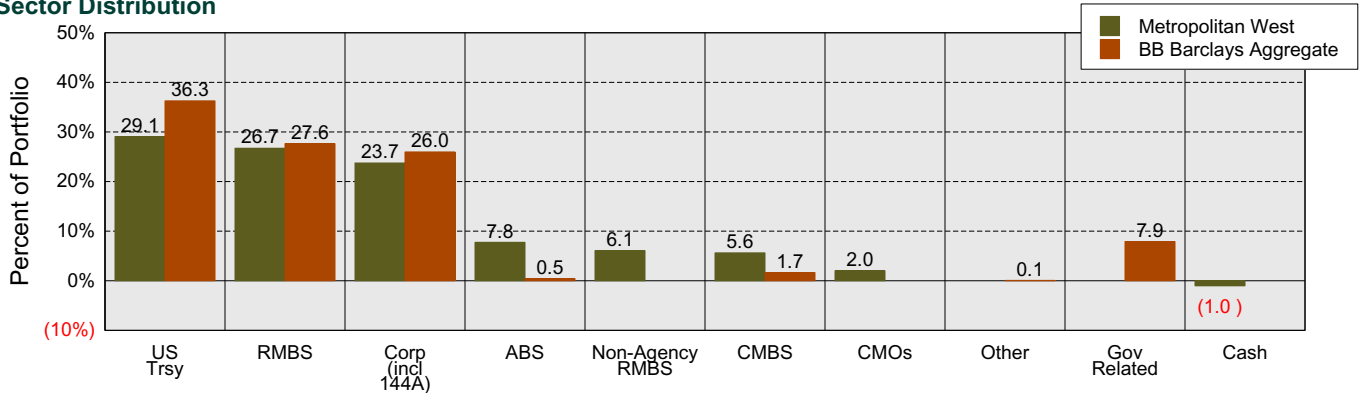


# Metropolitan West Portfolio Characteristics Summary As of September 30, 2016

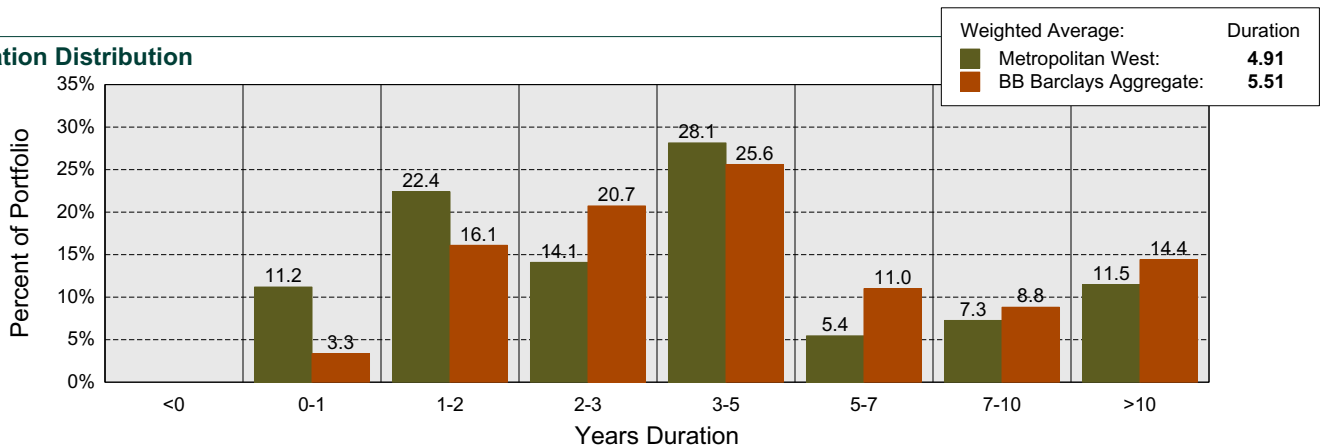
## Portfolio Structure Comparison

The charts below compare the structure of the portfolio to that of the index from the three perspectives that have the greatest influence on return. The first chart compares the two portfolios across sectors. The second chart compares the duration distribution. The last chart compares the distribution across quality ratings.

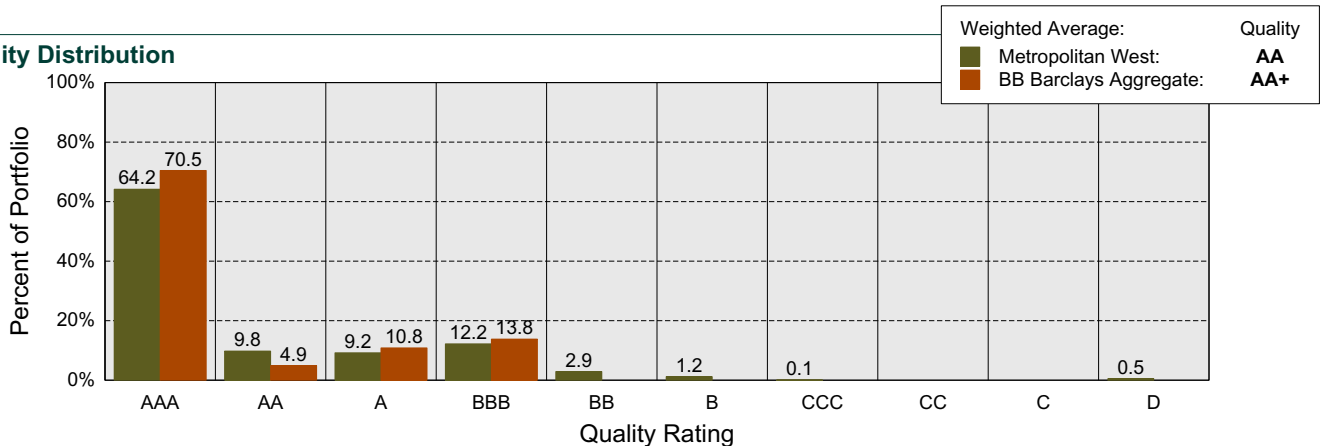
### Sector Distribution



### Duration Distribution



### Quality Distribution





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## Risk/Reward Statistics

The risk statistics used in this report examine performance characteristics of a manager or a portfolio relative to a benchmark (market indicator) which assumes to represent overall movements in the asset class being considered. The main unit of analysis is the excess return, which is the portfolio return minus the return on a risk free asset (3 month T-Bill).

**Alpha** measures a portfolio's return in excess of the market return adjusted for risk. It is a measure of the manager's contribution to performance with reference to security selection. A positive alpha indicates that a portfolio was positively rewarded for the residual risk which was taken for that level of market exposure.

**Beta** measures the sensitivity of rates of portfolio returns to movements in the market index. A portfolio's beta measures the expected change in return per 1% change in the return on the market. If a beta of a portfolio is 1.5, a 1 percent increase in the return on the market will result, on average, in a 1.5 percent increase in the return on the portfolio. The converse would also be true.

**Downside Risk** stems from the desire to differentiate between "good risk" (upside volatility) and "bad risk" (downside volatility). Whereas standard deviation punishes both upside and downside volatility, downside risk measures only the standard deviation of returns below the target. Returns above the target are assigned a deviation of zero. Both the frequency and magnitude of underperformance affect the amount of downside risk.

**Excess Return Ratio** is a measure of risk adjusted relative return. This ratio captures the amount of active management performance (value added relative to an index) per unit of active management risk (tracking error against the index.) It is calculated by dividing the manager's annualized cumulative excess return relative to the index by the standard deviation of the individual quarterly excess returns. The Excess Return Ratio can be interpreted as the manager's active risk/reward tradeoff for diverging from the index when the index is mandated to be the "riskless" market position.

**Information Ratio** measures the manager's market risk-adjusted excess return per unit of residual risk relative to a benchmark. It is computed by dividing alpha by the residual risk over a given time period. Assuming all other factors being equal, managers with lower residual risk achieve higher values in the information ratio. Managers with higher information ratios will add value relative to the benchmark more reliably and consistently.

**R-Squared** indicates the extent to which the variability of the portfolio returns are explained by market action. It can also be thought of as measuring the diversification relative to the appropriate benchmark. An r-squared value of .75 indicates that 75% of the fluctuation in a portfolio return is explained by market action. An r-squared of 1.0 indicates that a portfolio's returns are entirely related to the market and it is not influenced by other factors. An r-squared of zero indicates that no relationship exists between the portfolio's return and the market.

**Relative Standard Deviation** is a simple measure of a manager's risk (volatility) relative to a benchmark. It is calculated by dividing the manager's standard deviation of returns by the benchmark's standard deviation of returns. A relative standard deviation of 1.20, for example, means the manager has exhibited 20% more risk than the benchmark over that time period. A ratio of .80 would imply 20% less risk. This ratio is especially useful when analyzing the risk of investment grade fixed-income products where actual historical durations are not available. By using this relative risk measure over rolling time periods one can illustrate the "implied" historical duration patterns of the portfolio versus the benchmark.

**Residual Portfolio Risk** is the unsystematic risk of a fund, the portion of the total risk unique to the fund (manager) itself and not related to the overall market. This reflects the "bets" which the manager places in that particular asset market. These bets may reflect emphasis in particular sectors, maturities (for bonds), or other issue specific factors which the manager considers a good investment opportunity. Diversification of the portfolio will reduce or eliminate the residual risk of that portfolio.

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## Risk/Reward Statistics

**Sharpe Ratio** is a commonly used measure of risk-adjusted return. It is calculated by subtracting the "risk-free" return (usually 3 Month Treasury Bill) from the portfolio return and dividing the resulting "excess return" by the portfolio's risk level (standard deviation). The result is a measure of return gained per unit of risk taken.

**Sortino Ratio** is a downside risk-adjusted measure of value-added. It measures excess return over a benchmark divided by downside risk. The natural appeal is that it identifies value-added per unit of truly bad risk. The danger of interpretation, however, lies in these two areas: (1) the statistical significance of the denominator, and (2) its reliance on the persistence of skewness in return distributions.

**Standard Deviation** is a statistical measure of portfolio risk. It reflects the average deviation of the observations from their sample mean. Standard deviation is used as an estimate of risk since it measures how wide the range of returns typically is. The wider the typical range of returns, the higher the standard deviation of returns, and the higher the portfolio risk. If returns are normally distributed (ie. has a bell shaped curve distribution) then approximately 2/3 of the returns would occur within plus or minus one standard deviation from the sample mean.

**Total Portfolio Risk** is a measure of the volatility of the quarterly excess returns of an asset. Total risk is composed of two measures of risk: market (non-diversifiable or systematic) risk and residual (diversifiable or unsystematic) risk. The purpose of portfolio diversification is to reduce the residual risk of the portfolio.

**Tracking Error** is a statistical measure of a portfolio's risk relative to an index. It reflects the standard deviation of a portfolio's individual quarterly or monthly returns from the index's returns. Typically, the lower the Tracking Error, the more "index-like" the portfolio.

**Treynor Ratio** represents the portfolio's average excess return over a specified period divided by the beta relative to its benchmark over that same period. This measure reflects the reward over the risk-free rate relative to the systematic risk assumed.

Note: Alpha, Total Risk, and Residual Risk are annualized.





## Research and Educational Programs

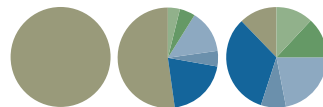
The Callan Institute provides research that updates clients on the latest industry trends while helping them learn through carefully structured educational programs. Visit [www.callan.com/research](http://www.callan.com/research) to see all of our publications, or for more information contact Anna West at 415.974.5060 / [institute@callan.com](mailto:institute@callan.com).

### New Research from Callan's Experts

**Built to Last: Strategic Guidance for Effective Investment Committees** | Callan offers our high-level strategic advice for investment committees, touching on membership, investment policy statements, review processes, and fiduciary training and ongoing education.

**10 Tips From Successful Investment Committees** | Callan Chairman and CEO Ron Peyton and Consultant Brady O'Connell, CFA, CAIA, offer 10 tips based on their work with successful investment committees.

**Risky Business** | Callan research that found investors over the last 20 years have



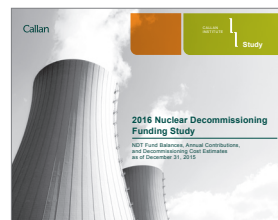
had to take on three times as much risk to earn the same return electrified the institutional investing community. We interviewed Jay Kloepfer and Julia Moriarty, CFA, about how the research was done and its implications.

#### Managing DC Plan Investments: A Fiduciary Handbook

Lori Lucas, CFA, covers responsibilities for DC plan fiduciaries, including investment structure, investment policy statements, QDIA oversight, and manager performance.

**Ethics 101 for Investment Professionals** | Callan Chairman and CEO Ron Peyton outlines his thoughts on how to create, instill, and maintain ethical standards for investment professionals. His advice: the right culture creates the best environment to maintain these standards. Firms should develop ethical guidelines that are based on principles, not rules, since the former offer better guidance for employees across the organization.

#### 2016 Nuclear Decommissioning Funding Study | A report



by Julia Moriarty, CFA, covers 27 investor-owned and 27 public power utilities with an ownership interest in the 99 operating nuclear reactors (and 10 of the non-operating reactors) in the U.S.

**How Green Is Your Bond?** | Callan Analyst Rufash Lama tackles the area of green bonds, which are fixed income instruments issued specifically to support or finance environmental initiatives.

### Periodicals

**Real Assets Reporter, Summer/Fall 2016** | This edition explores if the boom in commercial real estate may be ending.

**Private Markets Trends, Summer 2016** | Author Gary Robertson discusses the recent surge in private equity fundraising, an indication that some investors are establishing a defensive hedge as the five-year bull market pulls in its horns.

**DC Observer, 2nd Quarter 2016** | Callan's Defined Contribution Practice Team outlines a framework to evaluate DC transaction fees. We explain how common they are, what they typically cost, and how they are generally paid.

**Hedge Fund Monitor, 2nd Quarter 2016** | Jim McKee, director of Callan's Hedge Fund Research group, discusses the appeal of momentum-based investing strategies in the current climate of considerable economic uncertainty.

## Events

Miss out on a Callan conference or workshop? Event summaries and speakers' presentations are available on our website: <https://www.callan.com/education/CII/>

Mark your calendars for our fall **Regional Workshop**, October 25 in New York and October 26 in Chicago, and our **National Conference**, January 23–25, 2017, at the Palace Hotel in San Francisco.

**For more information about events, please contact Barb Gerraty: 415.274.3093 / [gerraty@callan.com](mailto:gerraty@callan.com)**

## The Center for Investment Training Educational Sessions

The Center for Investment Training, better known as the “Callan College,” provides a foundation of knowledge for industry professionals who are involved in the investment decision-making process. It was founded in 1994 to provide clients and non-clients alike with basic- to intermediate-level instruction. Our next session is:

### Introduction to Investments

*San Francisco, April 18-19, 2017*

*San Francisco, July 25-26, 2017*

*Chicago, October 24-25, 2017*

This session familiarizes fund sponsor trustees, staff, and asset management advisors with basic investment theory, terminology, and practices. It lasts one-and-a-half days and is designed for individuals who have less than two years of experience with asset-management oversight and/or support responsibilities. Tuition for the Introductory “Callan College” session is \$2,350 per person. Tuition includes instruction, all materials, breakfast and lunch on each day, and dinner on the first evening with the instructors.

### Customized Sessions

The “Callan College” is equipped to customize a curriculum to meet the training and educational needs of a specific organization. These tailored sessions range from basic to advanced and can take place anywhere—even at your office.

**Learn more at <https://www.callan.com/education/college/> or contact Kathleen Cunnie: 415.274.3029 / [cunnie@callan.com](mailto:cunnie@callan.com)**

## Education: By the Numbers

**500** Attendees (on average) of the Institute's annual National Conference

**50+** Unique pieces of research the Institute generates each year

**3,500** Total attendees of the “Callan College” since 1994

**1980** Year the Callan Institute was founded



“We think the best way to learn something is to teach it. Entrusting client education to our consultants and specialists ensures that they have a total command of their subject matter. This is one reason why education and research have been cornerstones of our firm for more than 40 years.”

Ron Peyton, Chairman and CEO



## List of Callan's Investment Manager Clients

Confidential – For Callan Client Use Only

Callan takes its fiduciary and disclosure responsibilities to clients very seriously. We recognize that there are numerous potential conflicts of interest encountered in the investment consulting industry and that it is our responsibility to manage those conflicts effectively and in the best interest of our clients. At Callan, we employ a robust process to identify, manage, monitor and disclose potential conflicts on an on-going basis.

The list below is an important component of our conflicts management and disclosure process. It identifies those investment managers that pay Callan fees for educational, consulting, software, database or reporting products and services. We update the list quarterly because we believe that our fund sponsor clients should know the investment managers that do business with Callan, particularly those investment manager clients that the fund sponsor clients may be using or considering using. Please refer to Callan's ADV Part 2A for a more detailed description of the services and products that Callan makes available to investment manager clients through our Institutional Consulting Group, Independent Adviser Group and Fund Sponsor Consulting Group. Due to the complex corporate and organizational ownership structures of many investment management firms, parent and affiliate firm relationships are not indicated on our list.

Fund sponsor clients may request a copy of the most currently available list at any time. Fund sponsor clients may also request specific information regarding the fees paid to Callan by particular fund manager clients. Per company policy, information requests regarding fees are handled exclusively by Callan's Compliance Department.

Manager Name
1607 Capital Partners, LLC
Aberdeen Asset Management PLC
Acadian Asset Management LLC
ACR – Alpine Capital Research
AEGON USA Investment Management
AEW Capital Management
Affiliated Managers Group, Inc.
AllianceBernstein
Allianz Global Investors
Allianz Life Insurance Company of North America
American Century Investment Management
Amundi Smith Breeden LLC
Analytic Investors
Angelo, Gordon & Co.
Apollo Global Management
AQR Capital Management
Ares Management LLC
Ariel Investments, LLC
Aristotle Capital Management, LLC
Artisan Holdings
ASB Capital Management Inc.
Ativo Capital Management
Atlanta Capital Management Co., LLC
Aviva Investors Americas
AXA Investment Managers
Babson Capital Management
Baillie Gifford Overseas Limited
Baird Advisors
Bank of America
Baring Asset Management
Baron Capital Management, Inc.
Barrow, Hanley, Mewhinney & Strauss, LLC
BlackRock
BMO Asset Management, Corp.
BNP Paribas Investment Partners
BNY Mellon Asset Management
Boston Partners

Manager Name
Brandes Investment Partners, L.P.
Brandywine Global Investment Management, LLC
Brown Brothers Harriman & Company
Brown Investment Advisory & Trust Company
Cambiar Investors, LLC
Capital Group
CastleArk Management, LLC
Causeway Capital Management
Chartwell Investment Partners
ClearBridge Investments, LLC
Cohen & Steers Capital Management, Inc.
Columbia Threadneedle Investments
Columbia Wanger Asset Management
Columbus Circle Investors
Conestoga Capital Advisors
Corbin Capital Partners, L.P.
Cornerstone Capital Management
Cramer Rosenthal McGlynn, LLC
Credit Suisse Asset Management
Crestline Investors, Inc.
D.E. Shaw Investment Management, LLC
Delaware Investments
DePrince, Race & Zollo, Inc.
Deutsche Asset Management
Diamond Hill Investments
Duff & Phelps Investment Mgmt. Co.
Eagle Asset Management, Inc.
EARNEST Partners, LLC
Eaton Vance Management
Epoch Investment Partners, Inc.
Fayez Sarofim & Company
Federated Investors
Fidelity Institutional Asset Management
Fiera Capital Global Asset Management
First Eagle Investment Management, LLC
First Hawaiian Bank Wealth Management Division
Fisher Investments

Manager Name
Fort Washington Investment Advisors, Inc.
Franklin Templeton Institutional
Fred Alger Management, Inc.
Fuller & Thaler Asset Management, Inc.
GAM (USA) Inc.
GE Asset Management
GMO
Goldman Sachs Asset Management
Grand-Jean Capital Management
Guggenheim Investments
GW&K Investment Management
Harbor Capital Group Trust
Hartford Funds
Hartford Investment Management Co.
Henderson Global Investors
Hotchkis & Wiley Capital Management, LLC
HSBC Global Asset Management
Impax Asset Management Limited
Income Research + Management, Inc.
Insight Investment Management Limited
Institutional Capital LLC
INTECH Investment Management, LLC
Invesco
Investec Asset Management
Investment Counselors of Maryland, LLC
Janus Capital Management, LLC
Jarislowsky Fraser Global Investment Management
Jensen Investment Management
J.P. Morgan Asset Management
KeyCorp
Lazard Asset Management
Legal & General Investment Management America
Lincoln National Corporation
LMCG Investments, LLC
Longview Partners
Loomis, Sayles & Company, L.P.
Lord Abbett & Company
Los Angeles Capital Management
LSV Asset Management
Mackay Shields LLC
Man Investments Inc.
Manulife Asset Management
Martin Currie Inc.
McDonnell Investment Management, LLC
MFS Investment Management
MidFirst Bank
Mondrian Investment Partners Limited
Montag & Caldwell, LLC
Morgan Stanley Investment Management
Mountain Lake Investment Management LLC
MUFG Union Bank, N.A.
Neuberger Berman
Newton Investment Management (fka Newton Capital Management)
Nikko Asset Management Co., Ltd.
Northern Trust Asset Management
Nuveen Investments, Inc.
OFI Global Asset Management
Old Mutual Asset Management
Opus Capital Management Inc.

Manager Name
O'Shaughnessy Asset Management, LLC
Pacific Alternative Asset Management Co.
Pacific Current Group
Pacific Investment Management Company
Parametric Portfolio Associates
P/E Investments
Peregrine Capital Management, Inc.
PGIM
PineBridge Investments
Pinnacle Asset Management L.P.
Pioneer Investments
PNC Capital Advisors, LLC
Principal Global Investors
Private Advisors, LLC
Putnam Investments, LLC
QMA (Quantitative Management Associates)
RBC Global Asset Management
Regions Financial Corporation
RidgeWorth Capital Management, Inc.
Riverbridge Partners LLC
Rockefeller & Co., Inc.
Rothschild Asset Management, Inc.
Russell Investments
Santander Global Facilities
Schroder Investment Management North America Inc.
Scout Investments
SEI Investments
Shenkman Capital Management, Inc.
Smith, Graham & Co. Investment Advisors, L.P.
Smith Group Asset Management
Standard Life Investments Limited
Standish
State Street Global Advisors
Stone Harbor Investment Partners, L.P.
Systematic Financial Management
T. Rowe Price Associates, Inc.
Taplin, Canida & Habacht
The Boston Company Asset Management, LLC
The Hartford
The London Company
The TCW Group, Inc.
Tri-Star Trust Bank
UBS Asset Management
Van Eck Global
Versus Capital Group
Victory Capital Management Inc.
Vontobel Asset Management, Inc.
Voya Financial
Voya Investment Management (fka ING)
Waddell & Reed Asset Management Group
WCM Investment Management
Wasatch Advisors, Inc.
WEDGE Capital Management
Wellington Management Company, LLP
Wells Capital Management
Western Asset Management Company
William Blair & Company



## Account Compliance Summary

Alerts:	0
Warnings:	0
Passes:	14

A5XB SACRT - ATLANTA CAPITAL MGMT

Production Date: 09/30/2016

Securities + Cash	22,340,728.51	Base Currency	USD	Net Assets	22,260,244
Rule Name		Limit Type	Limit Value	Result	Result Status
<b><u>144A and Private Placem</u></b>					
1	Private Placements are prohibited. (143653)	Maximum	0.00%	0.00 %	Pass
<b><u>Asset Measures</u></b>					
2	AssetMeasure: AssetMeasure_Funds_PREFERRED_Denominator (34662)			22,340,728.51 Value	Pass
<b><u>Asset Type</u></b>					
3	International equity securities which trade on U.S.-based exchanges, including American Depository Receipts (ADRs), shall not exceed 5% of the portfolio at cost (143658)	Maximum	5.00%	0.00 %	Pass
4	Investments in commodities are prohibited (143655)	Maximum	0.00%	0.00 %	Pass
5	Margin Securities are prohibited. (143651)	Maximum	0.00%	0.00 %	Pass
6	Ownership of shares/debt issued limit 5% ex null (143652)	Maximum	5.00%	0.04 %	Pass
7	The Fund may not enter into short sales. (143654)	Maximum	0.00%	0.00 %	Pass
8	The Fund may not hold any Options. (143657)	Maximum	0.00%	0.00 %	Pass
9	The Fund may not hold more than 5% of the shares outstanding of any domestic equity security (143659)	Maximum	5.00%	0.04 %	Pass
<b><u>Cash</u></b>					
10	No more than 10% of the Fund in cash and cash equivalents. (143656)	Maximum	10.00%	2.64 %	Pass
<b><u>Exchange</u></b>					
11	Flag any non-US exchange traded futures (143670)	Maximum	0.00%	0.00 %	Pass
<b><u>Industry</u></b>					
12	Industry Sector GICS - Max 25% at cost (143660)	Maximum	25.00%	7.86 %	Pass
13	The Fund shall not invested in any security issued by a company in the Tobacco Sub-Industry as defined by GICS (143650)	Maximum	0.00%	0.00 %	Pass
<b><u>Issuer</u></b>					
14	Investments in a single domestic equity issuer shall not exceed 5% at cost (143661)	Maximum	5.00%	2.01 %	Pass



## Account Compliance Summary

Alerts:	0
Warnings:	0
Passes:	8

A5XD SACRT - METWEST

Production Date: 09/30/2016

Securities + Cash	97,888,229.96	Base Currency	USD	Net Assets	88,590,096
Rule Name		Limit Type	Limit Value	Result	Result Status
<b><u>144A and Private Placem</u></b>					
1	The Fund is not permitted to hold any Private Placements excluding 144a (143666)	Maximum	0.00%	0.00 %	Pass
<b><u>Asset Measures</u></b>					
2	AssetMeasure: AssetMeasure_Funds_Preferred_Denominator (34662)			97,888,229.96 Value	Pass
<b><u>Asset Type</u></b>					
3	A5XD: Flag all prohibited security types (143665)	Maximum	0.00%	0.00 %	Pass
4	Asset-Backed Commercial Paper - Minimum Quality of A2/P2 (157603)	Maximum	0	0 Num Bkts	Pass
<b><u>Credit Quality</u></b>					
5	Minimum Quality must be at lest 80% Baa or above (157604)	Minimum	80.00%	94.50 %	Pass
6	No Commercial Paper rated < A2/P2 at time of purchase (143662)	Maximum	0.00%	0.00 %	Pass
7	The Weighted Average Credit Rating of the Fund must be A or better (143663)	Minimum	20	23.05 Rank	Pass
<b><u>Industry</u></b>					
8	The Fund shall not invested in any security issued by a company in the Tobacco Sub-Industry as defined by GICS (143650)	Maximum	0.00%	0.00 %	Pass



## Account Compliance Summary

Alerts:	0
Warnings:	0
Passes:	14

A5Z8 SACRT - ROBECO

Production Date: 09/30/2016

Securities + Cash	40,773,348.38	Base Currency	USD	Net Assets	40,706,870
Rule Name		Limit Type	Limit Value	Result	Result Status
<b><u>144A and Private Placem</u></b>					
1	Private Placements are prohibited. (143653)	Maximum	0.00%	0.00 %	Pass
<b><u>Asset Measures</u></b>					
2	AssetMeasure: AssetMeasure_Funds_Preferred_Denominator (34662)			40,773,348.38 Value	Pass
<b><u>Asset Type</u></b>					
3	International equity securities which trade on U.S.-based exchanges, including American Depository Receipts (ADRs), shall not exceed 5% of the portfolio at cost (143658)	Maximum	5.00%	2.71 %	Pass
4	Investments in commodities are prohibited (143655)	Maximum	0.00%	0.00 %	Pass
5	Margin Securities are prohibited. (143651)	Maximum	0.00%	0.00 %	Pass
6	Ownership of shares/debt issued limit 5% ex null (143652)	Maximum	5.00%	0.01 %	Pass
7	The Fund may not enter into short sales. (143654)	Maximum	0.00%	0.00 %	Pass
8	The Fund may not hold any Options. (143657)	Maximum	0.00%	0.00 %	Pass
9	The Fund may not hold more than 5% of the shares outstanding of any domestic equity security (143659)	Maximum	5.00%	0.01 %	Pass
<b><u>Cash</u></b>					
10	No more than 10% of the Fund in cash and cash equivalents. (143656)	Maximum	10.00%	4.31 %	Pass
<b><u>Exchange</u></b>					
11	Flag any non-US exchange traded futures (143670)	Maximum	0.00%	0.00 %	Pass
<b><u>Industry</u></b>					
12	Industry Sector GICS - Max 25% at cost (143660)	Maximum	25.00%	11.17 %	Pass
13	The Fund shall not invested in any security issued by a company in the Tobacco Sub-Industry as defined by GICS (143650)	Maximum	0.00%	0.00 %	Pass
<b><u>Issuer</u></b>					
14	Investments in a single domestic equity issuer shall not exceed 5% at cost (143661)	Maximum	5.00%	3.14 %	Pass





## Account Compliance Summary

Alerts:	
Warnings:	
Passes:	

A5Z8 SACRT - ROBECO

Production Date: 09/30/2016

Securities + Cash	40,773,348.38	Base Currency	USD	Net Assets	40,706,870
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Rule Name	Limit Type	Limit Value	Result	Result Status
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# REGIONAL TRANSIT ISSUE PAPER

Agenda Item No.	Board Meeting Date	Open/Closed Session	Information/Action Item	Issue Date
19	12/14/16	Retirement	Action	11/21/16

Subject: Selection of a Chair and Vice Chair for all Common Retirement Board Meetings (ALL). (Bonnel)

## ISSUE

Selection of a Common Chair and Common Vice Chair to Preside Over Retirement Board Meetings.

## RECOMMENDED ACTION

Adopt Resolution 16-12-\_\_\_\_, Selecting a Common Chair and Common Vice Chair to Preside Over Retirement Board Meetings.

## FISCAL IMPACT

There is no fiscal impact associated with this item.

## DISCUSSION

On January 12, 2004, the Sacramento Regional Transit (RT) Governing Board established five separate Retirement Boards to conduct business related to RT's Retirement Plans on behalf of their members. Each of the five Retirement Boards have three officer positions: Chair, Vice Chair and Secretary. This structure remains in effect and serves the Boards well. In many circumstances, the five Boards meet together in common, joint meetings. To ensure the orderly and efficient manner of all Retirement Board meetings, as well as to ensure continuity in execution of the business of the Boards, Pension Plan staff recommends that each of the five Boards collectively select a Common Chair and Common Vice Chair to preside over all regular and special Board meetings for so long as the Common Chair and Common Vice Chair agree to perform such duties, and for so long as each Board continues to agree on such selection.

Staff recommends each Board re-appoint and authorize the 2017 Common Chair and Common Vice Chair to preside over Board meetings as follows:

- 1) Re-appoint the RT Governing Board member assigned to the Retirement Board to continue to serve as Common Chair for purposes of presiding over meetings of any one or more of the five Boards;

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Approved:

Presented:

Final, 12/06/2016

Director, Human Resources

Director, Human Resources

# REGIONAL TRANSIT ISSUE PAPER

Agenda Item No.	Board Meeting Date	Open/Closed Session	Information/Action Item	Issue Date
19	12/14/16	Retirement	Action	11/21/16

Subject: Selection of a Chair and Vice Chair for all Common Retirement Board Meetings (ALL). (Bonnell)

- 2) Re-appoint RT's General Manager to serve as Common Vice Chair to preside over meetings of any one or more of the five Boards in the absence or other unavailability of the Common Chair;
- 3) Provide for this selection of a Common Chair and Common Vice Chair to remain in effect until December 31, 2017 or until either officer resigns from such role or until any one of the five Boards no longer agrees to such selection as evidenced by a majority vote of that Board.

RESOLUTION NO. 16-12-\_\_\_\_\_

Adopted by the IBEW Retirement Board for the Retirement Plan for RT Employees Who Are Members of IBEW, Local Union 1245 on this date:

December 14, 2016

**SELECTING A COMMON CHAIR AND COMMON VICE CHAIR TO PRESIDE OVER RETIREMENT BOARD MEETINGS**

BE IT HEREBY RESOLVED BY THE RETIREMENT BOARD FOR THE RETIREMENT PLAN FOR RT EMPLOYEES WHO ARE MEMBERS OF IBEW, LOCAL UNION 1245 AS FOLLOWS:

THAT, this Retirement Board hereby selects and re-appoints Andy Morin to serve as Common Chair, in which role he shall preside over all regular and special meetings of this Board; and

THAT, this Retirement Board hereby selects and re-appoints Henry Li to serve as Common Vice Chair, in which role he shall preside over all regular and special meetings of this Board in the absence or unavailability of the Common Chair; and

THAT, these selections of this Retirement Board will remain in effect through 2017 or until the Common Chair and/or Common Vice Chair resigns from such role or until any one of the other four Retirement Boards no longer agrees to such common selection as evidenced by a majority vote of that Board, in which case the Chair and Vice Chair of common meetings of two or more Retirement Boards shall be selected by those Retirement Board Directors present at each such common meeting.

\_\_\_\_\_  
Eric Ohlson, Chair

A T T E S T:

Lorrin Burdick, Secretary

By: \_\_\_\_\_  
Donna Bonnel, Assistant Secretary

# REGIONAL TRANSIT ISSUE PAPER

Agenda Item No.	Board Meeting Date	Open/Closed Session	Information/Action Item	Issue Date
20	12/14/16	Retirement	Information	11/21/16

Subject: Update on Roles and Responsibilities Related to Pension Administration (ALL). (Bonnel)

## ISSUE

Presentation regarding the roles and responsibilities of various District staff members and Legal Counsel related to administration of the Pension Plans (ALL). (Bonnel)

## RECOMMENDED ACTION

None associated with this matter.

## FISCAL IMPACT

None associated with this matter.

## DISCUSSION

In March 2014, staff proposed that the Sacramento Regional Transit District create and fill a new position, Pension and Retiree Services Administrator, that would be dedicated to and paid for by the Pension Plans. The position was filled with the hiring of Valerie Weekly in November 2014. The transition of various pension administration duties previously performed by District-funded positions to the new position has been ongoing since that time.

This presentation by Donna Bonnel, Pension Plan Administrator, and the attached documents are provided to ensure the Boards have a greater understanding of the various duties of RT staff and consultants (including the Retirement Boards' Legal Counsel) as related to administration of the Pension Plans.

Attachment A – Pension Administration Staff Roles and Responsibilities

Attachment B – RT Staff Costs (Excluding the Pension and Retiree Services Administrator)  
Attributable (but Not Charged) to RT Pension Plans

Attachment C – Summary of Legal Services Provided for the Quarter Ending September 30, 2016

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Approved:

Presented:

Final 12/06/2016

Director, Human Resources

Director, Human Resources

J:\Retirement Board\2016\IP's\December 14, 2016\#20 SACRT RB QRBM IPUpdate from Staff on Pension Tasks.DOC

# Pension Administration Staff Roles and Responsibilities

## Plan Administration

### Customer Relations:

<b>Task</b>	<b>Primary Responsibility</b>	<b>Back Up Responsibility</b>
Retirement Meetings	Director, Human Resources	Pension and Retirement Services Administrator (PRSA)
Research and address benefit discrepancies	Pension and Retirement Services Administrator (PRSA)	Pension Analyst
Disability Retirements	PRSA	Director, HR
Conduct Educational Sessions	PRSA	Pension Analyst
Respond to all Employee and Retiree inquiries	Pension Analyst	PRSA
Creation of Pension Estimates	Pension Analyst	PRSA
Processing Employee and Retiree Deaths	Pension Analyst	PRSA
Administration of Active and Term Vested Retirement Process, including: <ul style="list-style-type: none"> <li>• Notifications</li> <li>• Lost Participant Process (TV)</li> <li>• Collection of all required documents</li> <li>• Legal/Compliance Review</li> <li>• Approval by General Manager</li> </ul>	Pension Analyst	PRSA
Converting Employees to Retirees in SAP	Pension Analyst	Sr. HR Analyst - HRIS
Lost participant process for returned checks/stubs	Pension Analyst	PRSA
48-Month Salary Calculations	Pension Analyst	Payroll Supervisor and PRSA
Distribution of employee required contributions (per contract or PEPRA): <ul style="list-style-type: none"> <li>• Send notification</li> <li>• Collect documentation</li> <li>• Lost participant process</li> <li>• Apply interest</li> <li>• Process check</li> </ul>	Pension Analyst	PRSA
Conduct Lost Participant Searches	Pension Analyst	PRSA
Administer Retiree Medical	Pension Analyst	Sr. HR Analyst
Managing Stale Dated and Lost Check Replacement	Payroll Analyst and Senior Accountant	Payroll Supervisor
Copies of Retiree Pay Stubs and 1099R's	Payroll Analyst	Payroll Supervisor
Printing, Stuffing, and Mailing Pay Stubs	Payroll Analyst	Payroll Supervisor
Verification of Retiree Wages: gross pay, net wages, no pre-tax	Administrative Technician (HR) and Payroll Analyst	PRSA and/or Payroll Supervisor

deductions, taxes		
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**Plan Documents:**

<b>Task</b>	<b>Primary Responsibility</b>	<b>Back Up Responsibility</b>
Negotiation of Benefits, Provisions	Director, Labor Relations	To be determined
Incorporate Negotiated Benefits/Provisions into Plan Documents	Deputy Chief Counsel, RT	Chief Counsel, RT
Interpretation of Provisions	Pension and Retiree Services Administrator (PRSA) and Deputy Chief Counsel, RT	Chief Counsel, RT
Guidance to Staff regarding legal changes that affect Plans	Pension and Retiree Services Administrator (PRSA) and Deputy Chief Counsel, RT	Chief Counsel, RT

**Vendor Administration:**

<b>Task</b>	<b>Primary Responsibility</b>	<b>Back Up Responsibility</b>
Legal Services (Hanson Bridgett) Contract Procurement	PRSA and Sr. Accountant	Director, Human Resources and Director, Finance
Actuarial Services (Cheiron) Contract Procurement	PRSA and Sr. Accountant	Director, Human Resources and Director, Finance
Retirement Board Policy Development and Administration	PRSA and Senior Accountant Hanson Bridgett and Cheiron	Director, Human Resources or Director, Finance Hanson Bridgett and Cheiron

**Retirement Board Administration:**

<b>Task</b>	<b>Primary Responsibility</b>	<b>Back Up Responsibility</b>
Creation of Agenda/IPs	Staff Presenting Issue to Board	n/a
Creation and Distribution of Retirement Board Packages	PRSA	Director, Human Resources
Management of Retirement Board Meetings	Assistant Secretary to the Retirement Boards	PRSA
Training of Staff/Board Members	PRSA	Staff/Vendor SME
New Retirement Board Member Training	PRSA and/or Sr. Accountant	Staff/Vendor SME

**Semi-Annual/Annual/Bi-Annual Administration:**

<b>Task</b>	<b>Primary Responsibility</b>	<b>Back Up Responsibility</b>
Valuation Study	PRSA and Senior Accountant	Director, Finance and Director, Human Resources
Experience Study	PRSA and Senior Accountant	Director, Finance and Director, Human Resources
Fiduciary Liability Insurance	PSRA	Director, Human Resources
OPEB Valuation Study	PRSA and Senior Accountant	Director, Finance and Director, Human Resources
Responses to Public Records Act Requests	Director, Human Resources	PRSA
Statement of Investment Objectives and Policy Guidelines management	Sr. Accountant	Director, Finance

**Contract Administration:**

<b>Task</b>	<b>Primary Responsibility</b>	<b>Back Up Responsibility</b>
Adherence to contract provisions	PRSA and/or Sr. Accountant	Director, Human Resources or Director, Finance
Payment of Invoices	Sr. Accountant or Director, Human Resources	Director, Finance
Contract Management, including RFP process	PRSA and/or Sr. Accountant	Director, Human Resources or Director, Finance

**Asset Management:**

<b>Task</b>	<b>Primary Responsibility</b>	<b>Back Up Responsibility</b>
Asset Rebalancing	Sr. Accountant	Director, Finance
Account Reconciliations	Sr. Accountant	Director, Finance
Cash Transfers	Sr. Accountant	Director, Finance
Fund Accounting	Sr. Accountant	Director, Finance
Investment Management	Sr. Accountant	Director, Finance
Financial Statement Preparation	Sr. Accountant	Director, Finance
Annual Audit	Sr. Accountant	Director, Finance
State Controller's Office Reporting	Sr. Accountant	Director, Finance
U.S. Census Bureau Reporting	Sr. Accountant	Director, Finance
Work with Contractors (Investment advisors (Callan), Custodian (State Street), Fund Managers, Auditors, and Actuary (Cheiron))	Sr. Accountant	Director, Finance
Review Monthly Asset Rebalancing	Director, Finance	CFO



## Attachment B

Pension administration costs charged to the Plans

Time Period: July 1, 2016 to September 30, 2016

Sum of Value TranCurr				
WBS Element	Source object name	Period	Total	
SAXXXX.PENATU	Finance And Treasury / Gardner, Leona	1	153.98	
		2	76.99	
	Human Resources / Montung-Fuller, Mari	1	1,136.52	
		2	811.80	
		3	2,029.50	
	Human Resources / Moua, Geu	2	151.74	
	Human Resources / Ung, Elaine	1	106.40	
	Human Resources / Weekly, Valerie	1	2,206.40	
		2	1,182.00	
		3	2,127.60	
	Legal / Sanchez, Olga	1	32.92	
		2	65.84	
		3	65.83	
<b>SAXXXX.PENATU Total</b>			<b>10,147.52</b>	
SAXXXX.PENIBEW	Finance And Treasury / Gardner, Leona	2	76.99	
		1	527.67	
	Human Resources / Montung-Fuller, Mari	2	487.08	
		3	365.31	
		2	37.94	
	Human Resources / Moua, Geu	2	37.94	
	Human Resources / Ung, Elaine	2	53.20	
	Human Resources / Weekly, Valerie	1	472.80	
		2	512.20	
		3	748.60	
<b>SAXXXX.PENIBEW Total</b>			<b>3,281.79</b>	
SAXXXX.PENSALA	Finance And Treasury / Gardner, Leona	1	1,231.85	
		2	904.65	
	Human Resources / Montung-Fuller, Mari	1	2,273.04	
		2	3,409.56	
		3	1,461.24	
	Human Resources / Moua, Geu	2	1,175.99	
	Human Resources / Ung, Elaine	1	88.66	
		2	106.41	
	Human Resources / Weekly, Valerie	1	3,546.00	
		2	3,230.80	
		3	2,876.20	
	Legal / Sanchez, Olga	1	164.58	
		2	142.21	
	<b>SAXXXX.PENSALA Total</b>			<b>20,611.19</b>
	SAXXXX.PENSION	Board Support / Brooks, Cynthia	1	76.52
Finance And Treasury / Adelman, Jamie		1	2,040.48	

<b>SAXXXX.PENSION</b>	<b>Finance And Treasury / Adelman, Jamie</b>	2	2,020.86
		3	2,472.12
	<b>Finance And Treasury / Gardner, Leona</b>	1	115.49
		2	134.73
		3	153.98
	<b>Finance And Treasury / Mata, Jennifer</b>	1	993.08
		2	1,269.19
		3	1,107.04
	<b>Human Resources / Bonnel, Donna</b>	1	1,278.94
		2	3,344.92
		3	3,541.68
	<b>Human Resources / Humphrey, Isis</b>	1	1,087.67
		2	2,648.24
		3	2,790.11
	<b>Human Resources / Montung-Fuller, Mari</b>	1	6,616.17
		2	6,981.48
		3	7,996.23
	<b>Human Resources / Moua, Geu</b>	2	644.90
	<b>Human Resources / Weekly, Valerie</b>	1	1,773.00
		2	3,546.00
		3	3,546.00
	<b>Legal / Lonergan, Kathleen</b>	3	138.28
	<b>Legal / Sanchez, Olga</b>	1	98.75
	<b>VP Business Serv/CFO / Bernegger, Brent</b>	1	244.63
		2	856.17
		3	1,100.79
<b>SAXXXX.PENSION Total</b>			<b>58,617.45</b>
<b>Grand Total</b>			<b>92,657.95</b>



**HANSON BRIDGETT LLP &  
SACRAMENTO REGIONAL TRANSIT DISTRICT RETIREMENT BOARDS**

**LEGAL SERVICES SUMMARY**

Set forth below is a broad summary report of significant legal matters addressed by Hanson Bridgett LLP for the Sacramento Regional Transit District Retirement Boards during the Quarter ended September 30, 2016.

1. Weekly client conference calls and internal conferences on pending matters, upcoming Board meetings and follow-up from prior Board meetings.
2. Preparation for and participation in Quarterly and Special Retirement Board Meetings, including review and markup of agenda materials and related Board Chair conference calls.
3. Finalize new actuarial services contract.
4. Provide counsel regarding potential forfeiture of pension funds under PEPRA.
5. Review preliminary valuation and experience study results.
6. Provide legal support for negotiation and execution of new investment fund manager contract.
7. Provide legal support for amendment of investment fund manager contract.
8. Analyze issues relative to and review proposed new group trust agreements.
9. Provide fiduciary and legal analysis related to appointment of Retirement Board members.
10. Analyze issues relative to separation of Pension Plan assets and allocation of employer contributions.
11. Advise on pending service retirement.
12. Analyze import of new holdings in PEPRA and ERISA cases.
13. Assist staff with analysis of potential under-and over-payments.

Respectfully Submitted,

/s/ Shayna M. van Hoften

# REGIONAL TRANSIT ISSUE PAPER

Agenda Item No.	Board Meeting Date	Open/Closed Session	Information/Action Item	Issue Date
21	12/14/16	Retirement	Information	11/21/16

Subject: AB 1234 Local Government Ethics Training (ALL). (Bonnel)

## ISSUE

AB 1234 Local Government Ethics Training (ALL). (Bonnel)

## RECOMMENDED ACTION

Information Only. (Training Session)

## FISCAL IMPACT

None.

## DISCUSSION

Under AB 1234, most local public officials are required to take an ethics training course to educate them on the ethical standards required of any individual who works in local government. This training is required within one year of an official's appointment and must be repeated at least every two years. This requirement extends to Retirement Board Members. The Boards last received the training in December, 2014.

Shayna van Hoften, General Counsel for the Retirement Boards, and her colleague Catherine Groves will provide this two-hour ethics training. Materials will be distributed at the training.

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Approved:

Final, 12/06/2016

Director, Human Resources

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Presented:

Director, Human Resources

J:\Retirement Board\2016\IP's\December 14, 2016#\21 [HB edits] 12.14.16 Ethics Training.DOC