

Stanislaus County Employees' Retirement Association

832 12th Street, Ste. 600, Modesto, CA 95354 • PO Box 3150, Modesto, CA 95353 • www.stancera.org • 209-525-6393 • 209-558-4976 Fax

AGENDA

BOARD OF RETIREMENT 832 12th Street Ste. 600, **Wesley W. Hall Board Room** Modesto, CA 95354

August 22, 2017 1:30 p.m.

The Board of Retirement welcomes you to its meetings, which are regularly held on the fourth Tuesday of each month. Your interest is encouraged and appreciated.

CONSENT/ACTION ITEMS: Consent matters include routine administrative actions and are identified under the Consent Items heading. All other items are considered to be action items "Action" means that the Board may dispose of any item by any action, including but not limited to the following acts: approve, disapprove, authorize, modify, defer, table, take no action, or receive and file.

PUBLIC COMMENT: Matters under jurisdiction of the Board, may be addressed by the general public before or during the regular agenda. However, California law prohibits the Board from taking action on any matter which is not on the posted agenda unless it is determined an emergency by the Board of Retirement. Any member of the public wishing to address the Board during the "Public Comment," period shall be permitted to be heard once up to three minutes. Please complete a Public Comment Form and give it to the Chair of the Board. Any person wishing to make a presentation to the Board must submit the presentation in written form, with copies furnished to all Board members. Presentations are limited to three

BOARD AGENDAS & MINUTES: Board agendas, minutes and copies of items to be considered by the Board of Retirement are customarily posted on the Internet by Friday afternoon preceding a meeting at the following website: www.stancera.org.

Materials related to an item on this Agenda submitted to the Board after distribution of the agenda packet are available for public inspection at StanCERA, 832 12th Street, Suite 600, Modesto, CA 95354, during normal business hours.

AUDIO: All Board of Retirement regular meetings are audio recorded. Audio recordings of the meetings are available after the meetings at http://www.stancera.org/agenda.

NOTICE REGARDING NON-ENGLISH SPEAKERS: Board of Retirement meetings are conducted in English and translation to other languages is not provided. Please make arrangements for an interpreter if necessary.

REASONABLE ACCOMMODATIONS: In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary at (209) 525-6393. Notification 72 hours prior to the meeting will enable StanCERA to make reasonable arrangements to ensure accessibility to this meeting.

- 1. Call Meeting to Order
- 2. Roll Call
- 3. Announcements
- 4. Public Comment
- 5. Consent Items
 - a. Approval of the July 25, 2017 Meeting Minutes View
 - b. Monthly Staff Report View
 - c. Legal/Legislation Update View
 - d. Approval of Service Retirement(s) Government Code Sections 31499.14, 31670, 31662.2 & 31810
 - 1. Campbell, John Sheriff Effective 08-19-17 *
 - 2. Ford, Gordon Treasurer/Tax Collector Effective 08-01-17
 - 3. Gaudio, Gregory Workforce Development Effective 08-09-17
 - 4. Hall, Ilif DER Effective 08-05-17
 - 5. lehan, Margaret Library Effective 08-04-17
 - 6. Miranda, Daniel City of Ceres Effective 08-05-17
 - 7. Nelson, Ron CSA Effective 08-19-17
 - 8. Nicholes, Brian City of Ceres Effective 08-12-17 *
 - 9. Reyes, Joseph City of Ceres Effective 08-05-17
 - 10. Risen, Stanley CEO Effective 08-12-17
 - 11. Silim, Keo BHRS Effective 03-31-17
 - 12. Slate, Lynn Probation Effective 08-11-17 *

- 13. Thomlison, Cynthia CEO Effective 08-26-17
- 14. Young, Anita Library Effective 08-18-17
 * Indicates Safety Personnel

e. Approval of Deferred Retirement(s) - Government Code Section 31700

- 1. Barlan, Kristina DER Effective 07-22-17
- 2. Bumgardner, Mandy CSA Effective 05-26-17
- 3. Cadeaux, Lili HSA Effective 05-20-17
- 4. Daniels, Rodney Probation Effective 07-08-17 *
- 5. De Jong, Elizabeth DA Effective 06-24-17
- 6. Ernest, Sheila Animal Services Effective 05-06-17
- 7. Franco, Lilia City of Ceres Effective 05-13-17
- 8. Garcia, Susan GSA Effective 06-16-17
- 9. Garner, Deborah HSA Effective 04-29-17
- 10. Gelfond, Matthew DA Effective 06-30-17
- 11. Gonzalez, Juan Public Works Effective 07-14-17
- 12. Hampton, Carlos City of Ceres Effective 02-25-17 *
- 13. Hicks, Phillip Sheriff Effective 03-16-17 *
- 14. Hernandez, Carmen HSA Effective 05-17-17
- 15. Hernandez, Monica HSA Effective 12-27-16
- 16. Lewis, Jeremy City of Ceres Effective 10-28-14 *
- 17. Lopez-Smith, Ninfa Alliance WorkNet Effective 08-19-16
- 18. Mazariegos, Leisser City of Ceres Effective 06-28-17
- 19. Munoz, Evelyn CSA Effective 06-01-17
- 20. Ocampo, Adriana CSA Effective 03-18-17
- 21. Oshana, Josephine CSA Effective 07-01-17
- 22. Randle, Laliah City of Ceres Effective 04-13-17
- 23. Reed, Adrienne DCSS Effective 07-14-17
- 24. Riley, James City of Ceres Effective 03-24-16 *
- 25. Rios, Grizelle BHRS Effective 04-08-17
- 26. Sandoval, Samuel Courts Effective 06-03-17
- 27. Stewart, Daniel StanCOG Effective 05-02-17
- 28. Wood, Whitney Planning Effective 03-10-17
 * Indicates Safety Personnel

f. Approval of Reciprocal Disability Retirement - Section 31838.5

- 1. Horal, Julie Probation, Service-Connected, Effective 07.13.17 *
- 2. Jeffries, Kevin Sheriff, Service-Connected, Effective 03.13.17 *

 * Indicates Safety Personnel

6. Executive Director – Investment

7. Verus – Investment Consultant

- a. Workplan View
- b. July 27, 2017 Flash Report View
- c. Investment Performance Quarter 2 Review View
- d. Private Market Education View

- 8. <u>Executive Director Administrative</u>
 - a. Information Technology Solutions (ITS) Project Update View
- 9. Closed Session
 - a. Discussion and Action: Risk Parity Contract Negotiation –
 Government Code Section 54956.81
 - a. Conference with Legal Counsel Pending Litigation One Case:
 O'Neal et al v. Stanislaus County Employees' Retirement Association
 Stanislaus County Superior Court Case No. 648469
 Government Code Section 54956.9(d)(1)
 - b. Conference with Legal Counsel Pending Litigation One Case: Stanislaus County Employees' Retirement Association v. Buck Consultants, LLC, Mediation Pursuant to Evidence Code Sections 1115, 1119, 1152 Government Code Section 54956.9d)(4)
- 10. Members' Forum (Information and Future Agenda Requests Only)
- 11. Adjournment

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BOARD OF RETIREMENT MINUTES July 25, 2017

Call Meeting to Order

Meeting called to order 1:30 p.m. by Trustee Gharat, Chair

2. Roll Call

Trustees Present: NOTE Seat 3 and Seat 8.a is vacant as of June 30, 2017,

Darin Gharat, Mike Lynch, Sam Sharpe, Jim DeMartini,

Michael O'Neal, and Jegan Raja for Gordon Ford

Trustees Absent: Gordo

Gordon Ford, Jeff Grover and Mandip Dhillon

Alternate Trustee

Vacant, Alternate Retiree Representative

Staff Present:

Kellie Gomes, Executive Board Assistant Natalie Elliott, Interim Fiscal Services Manager Dawn Lea, Member and Employer Services Manager

Others Present:

Fred Silva, General Legal Counsel

Donna Riley Joan Clendenin

3. Announcements

Seat 3 and Seat 8.a is vacant as of June 30, 2017. Elections for both seats are underway with the final filing date for ballots on August 8th at 5:00 p.m.

5.f.7.Pinto, Justine – CSA – Effective 07-08-17 should not have been identified as a safety member and will be corrected in the minutes.

4. Public Comment

None

5. Consent Items

- a. Approval of the June 27, 2017 Meeting Minutes
- b. Monthly Staff Report
- c. Legal/Legislation Update
- d. Executive Director Goals Update Quarter 2, 2017
- e StanCERA Complaint Log: April 1 and June 30, 2017

- f. Approval of Service Retirement(s) Government Code Sections 31499.14, 31670, 31662.2 & 31810
 - 1. Canapi-Williams, Norma Public Works Effective 07-01-17
 - 2. Collyer Jr., Stephen Sheriff Effective 07-03-17 *
 - 3. Cruz, Silvia DER Effective 07-06-17
 - 4. Dunham, Cathrine Courts Effective 07-06-17
 - 5. Fregoso, Marisa Probation Effective 06-20-17
 - 6. Gunnoe, Constance Sheriff Effective 07-22-17 *
 - 7. Pinto, Justine CSA Effective 07-08-17
 - 8. Reed, David StanCOG Effective 7-06-17
 - 9. Reuben, Julie Library Effective 07-01-17
 - 10. Rocha, Robert Public Works Effective 07-09-17
 - 11. Yonan-Powers, Claire CSA Effective 07-22-17
 * Indicates Safety Personnel
- g. Approval of Deferred Retirement(s) Government Code Section 31700
 - 1. Casillas-Franco, Elaine DA Effective 06-24-17
 - 2. Young, Melissa CSA Effective 06-10-17
 * Indicates Safety Personnel
- h. Approval of Disability Retirement Government Code Section 31724
 - Borges, Dedra Police Department, Service-Connected, Effective 04.17.15*
 * Indicates Safety Personnel
- i. Approval of Death Benefit Government Code Section 31781
 - 1. Gooden, Hilma, Deceased July 18, 2017, HSA Active Member

Motion was made by Trustee O'Neal and seconded by Trustee Raja to accept the consent items as presented with the exception of the correction to agenda item 5f.7 as noted in announcements.

Motion carried unanimously

- 6. Executive Director Investment
 - a. Functionally Focused Portfolio Update
- 7. Verus Investment Consultant.

Ed Hoffman joined by phone at 1:33 p.m

- 1:33 p.m. Trustee Sharpe arrived
 - a. 12-Month Investment Program Workplan
 - b. June 30, 2017 Flash Report

8. <u>Executive Director – Administrative</u>

- a. Information Technology Solutions (ITS) Project Update
- b. 2017 Due Diligence Trip Update

9. Closed Session

- a. Conference with Legal Counsel Pending Litigation One Case:
 O'Neal et al v. Stanislaus County Employees' Retirement Association
 Stanislaus County Superior Court Case No. 648469
 Government Code Section 54956.9(d)(1)
- b. Conference with Legal Counsel Pending Litigation One Case: Stanislaus County Employees' Retirement Association v. Buck Consultants, LLC, Mediation Pursuant to Evidence Code Sections 1115, 1119, 1152 Government Code Section 54956.9d)(4)

No Closed Session Held

10. Members' Forum (Information and Future Agenda Requests Only)

Trustee O'Neal announced the date (August 19) for the RESSCO Picnic and extended an offer to pay for anyone on the Board who would like to attend the annual Picnic.

Donna Riley expressed support for sending the Executive Board Assistant to the Due Diligence visits and expressed how beneficial it is to have someone taking notes and reporting out on the trip.

11. Adjournment

Meeting adjourned at 1:52 p.m.

Respectfully submitted,

Rick Santos, Executive Director

APPROVED AS TO FORM:

By:

Fred Silva, GENERAL LEGAL COUNSEL

Fred Silva, General Legal Counsel



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August 22, 2017

Retirement Board Agenda Item

TO: Retirement Board

FROM: Rick Santos, Executive Director

I. SUBJECT: Monthly Staff Report

II. ITEM NUMBER: 5.b

III. ITEM TYPE: Information Only

IV. STAFF RECOMMENDATION: None

V. ANALYSIS:

a) Member & Employer Services – During the month of July 2017, Member and Employer Services Staff processed 40 new hires (7 Safety and 33 General), 15 terminations, 34 estimates and 15 buy backs. There were 27 individual counseling sessions.

Staff continues to devote many hours to meeting with the Tegrit Analysts to continue defining the business rules necessary to ensure that StanCERA's needs will be met with the Arrivos system. Staff have also begun utilization testing of the member demographics screens.

Staff completed the quality assurance review on a sampling of files from each box of scanned files that were prepared and scanned by FNTI.

Staff continues to audit member files in anticipation of the data conversion that will be required with the implementation of the Arrivos pension administration system.

b) Fiscal Services – Fiscal Services – Employer and employee contributions totaling \$6,841,928 were received through 11 different payroll batches in June. In addition, 26 contribution refunds and death benefit payouts totaling \$196,408 were processed. The retiree payroll for August totaled \$9,839,352 and was processed as scheduled. Staff is working with the auditors on the fiscal year end audit. Interim field work has been completed and final field work will start August 28th. Staff continues to partner with Member Services in defining the business rules for the new pension software. Staff has started meeting with Tegrit to define employer payroll upload business rules for the Arrivos system. Partnering with our employers, County payroll individuals are being invited to attend some of these meetings.

- c) Investment Governance and Compliance Staff continues to work on the StanCERA Investment database and upload processes. Staff is also working with the County on the Investment Officer recuruitment and we anticipate beginning formal interviews the first week of September.
- VI. RISK: None
- VII. STRATEGIC PLAN: Strategic Objective IV: Refine StanCERA's business and policy practices in ways that enhance stakeholder awareness, the delivery of member services and the ability of the Organization to administer the System effectively and efficiently*
- VIII. ADMINISTRATIVE BUDGET IMPACT: NONE

Rick Santos, Executive Director

Dawn Lea, Member and Employer Services Manager

Natalie Elliott, Interim Fiscal Services Manager

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August 22, 2017

Retirement Board Agenda Item

TO: Retirement Board

FROM: Dawn Lea, Member and Employer Services Manager

I. SUBJECT: Legal Update: Citizens Pension Reform Initiative (CPRI)

II. ITEM NUMBER: 5.c

III. ITEM TYPE: Information Only

IV. STAFF RECOMMENDATION: None

V. ANALYSIS:

Current Information: On July 26, 2017, the Supreme Court voted unanimously to review the April ruling by the Fourth District Court of Appeal. It is rare for the state Supreme Court to issue a notice of review, which means that the court considers some element of the appellate court ruling worthy of judicial review and possible change. Arguments in this case aren't expected to be heard until 2018 or 2019.

Historical Information: In November 2010, City of San Diego Mayor Sanders publicly announced that he would pursue a ballot measure to amend the San Diego city charter to provide 401(k) style retirement benefits, instead of a defined benefit pension to newly hired employees.

In April 2011, while proponents of the Citizens Pension Reform Initiative (CPRI) were collecting signatures for the measure to be placed on the Ballot, Mayor Sanders started touting the measure in public speeches and interviews.

In July 2011, labor unions representing City employees wrote to Mayor Sanders demanding that the City meet and confer before placing the CPRI on the ballot. The City declined the demand, replying that if the proponents obtained enough valid signatures, state law required the City Council to place the measure on the ballot and thus there was no policy decision over which to meet and confer.

Enough valid signatures were eventually collected and the City Council passed a resolution placing the measure on the ballot for the June 2012 primary election.

In January 2012, the unions filed unfair practice charges with the Public Employment Relations Board (PERB) alleging that the City violated its duty to meet and confer before placing the CPRI on the ballot. PERB issued a complaint and set an expedited hearing on the charges. They also unsuccessfully sought an injunction to keep the initiative off the ballot.

In June 2012, a majority of the electorate voted in favor of the CPRI.

After a hearing, a PERB Administrative law judge (ALJ) ruled that the City violated the Meyers-Milias-Brown Act (MMBA), because Mayor Sanders was acting as an agent of the City when he supported the CPRI and therefore the City was obligated to meet and confer. On appeal, PERB affirmed the ALJ's decision and ordered "make whole" relief that essentially required the City to ignore the city charter provisions that resulted from the voters' approval of the CPRI.

Retirement Board - August 22, 2017

Legal Update: Citizens Pension Reform Initiative (CPRI)

Page 2

In April 2016, the California Fourth District Court of Appeal heard arguments in The City of San Diego vs. PERB. Ultimately, the court of appeal annulled PERB's decision, finding that the City had no obligation to meet and confer over the CPRI. The court found that the MMBA's meet and confer requirements do not apply to citizens' initiatives.

It is also important to note that the court's decision was based in part on the limited power and special duty that elected officials have in connection with citizen initiatives. The court emphasized that, under the Elections Code, the city council was required to place the initiative on the ballot without alteration, and was not legally authorized to do otherwise. Thus, there was no policy decision over which the City could have met and conferred.

VI. RISK: None

- VII. STRATEGIC PLAN: Strategic Objective IV: Refine StanCERA's business and policy practices in ways that enhance stakeholder awareness, the delivery of member services and the ability of the Organization to administer the System effectively and efficiently*
- VIII. ADMINISTRATIVE BUDGET IMPACT: NONE

Dawn Lea, Member and Employer Services Manager

Rick Santos, Executive Director



StanCERA Investment Program 12-Month Workplan

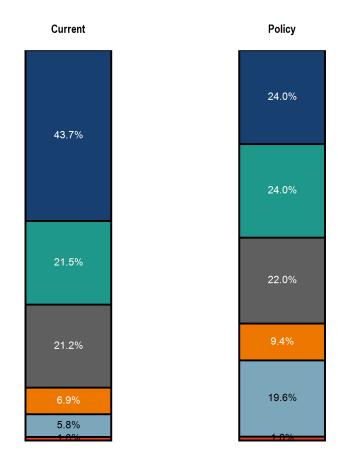
	Time
June, 2017	0:05
Flash report and 12-month workplan	0:05
July, 2017	0:05
Flash report and 12-month workplan	0:05
August, 2017	1:05
Flash report and 12-month workplan	0:05
Quarterly investment performance report	0:30
Private markets approaches	0:30
September, 2017	0:20
Flash report and 12-month workplan	0:05
Propose search for private markets	0:10
Launch Value-Add Real Estate search	0:05
October, 2017	1:05
Flash report and 12-month workplan	0:05
Present search for private markets	0:30
Present search for Vaue-Add Real Estate mandate	0:30
November, 2017	1:05
Flash report and 12-month workplan	0:05
Quarterly investment performance report	0:30
Finalist(s) for Private Markets mandate	0:30
December, 2017	0:35
Flash report and 12-month workplan	0:05
Finalists for Vaue-Add Real Estate mandate	0:30
January, 2018	0:20
Flash report and 12-month workplan	0:05
Present funding & implementation plans for Private Markets & Value-Add RE	0:15
February, 2018	0:35
Flash report and 12-month workplan	0:05
Quarterly investment performance report	0:30
March, 2018	0:25
Flash report and 12-month workplan	0:05
Annual review of FFP with updated capital market assumptions	0:20
April, 2018	0:05
Flash report and 12-month workplan	0:05
May, 2018	0:35
Flash report and 12-month workplan	0:05
Quarterly investment performance report	0:30

Total Fund Flash Report (Net of Fees) - Preliminary

Period Ending: July 31, 2017

	Market Value	% of Portfolio	1 Mo	YTD	Fiscal YTD
Total Fund	2,010,556,942	100.0	1.5	9.2	1.5
Policy Index			1.7	8.6	1.7
US Equity	878,699,277	43.7	1.9	10.7	1.9
US Equity Blended			1.7	10.3	1.7
Russell 3000			1.9	11.0	1.9
Mellon S&P 500	94,316,446	4.7	2.1	11.6	2.1
S&P 500			2.1	11.6	2.1
BlackRock Russell 1000 Growth	105,417,549	5.2	2.7	17.0	2.7
Russell 1000 Growth			2.7	17.0	2.7
Jackson Square	148,897,082	7.4	4.4	19.4	4.4
Russell 1000 Growth			2.7	17.0	2.7
BlackRock Russell 1000 Value	119,013,497	5.9	1.3	6.1	1.3
Russell 1000 Value			1.3	6.0	1.3
Dodge & Cox-Equity	210,596,170	10.5	1.8	8.6	1.8
Russell 1000 Value			1.3	6.0	1.3
Legato Capital	95,511,308	4.8	-0.2	9.5	-0.2
Russell 2000 Growth			0.9	10.9	0.9
Capital Prospects	104,947,226	5.2	0.2	3.7	0.2
Russell 2000 Value			0.6	1.2	0.6
International Equity	431,364,679	21.5	3.1	18.4	3.1
MSCI ACWI ex USA Gross			3.7	18.7	3.7
LSV Asset Mgt	218,876,667	10.9	3.4	18.3	3.4
MSCI ACWI ex USA Gross			3.7	18.7	3.7
Fidelity	212,488,012	10.6	2.9	18.5	2.9
MSCI ACWI ex USA Gross			3.7	18.7	3.7
US Fixed Income	427,082,496	21.2	0.2	3.1	0.2
BBgBarc US Aggregate TR			0.4	2.7	0.4
Dodge & Cox-Fixed	794,248	0.0	1.5	4.6	1.5
BBgBarc US Aggregate TR			0.4	2.7	0.4
PIMCO	7,212,074	0.4	0.4	2.7	0.4
BBgBarc US Aggregate TR			0.4	2.7	0.4
Insight	96,730,756	4.8	0.3		0.3
BBgBarc US Govt/Credit 1-5 Yr. TR			0.4		0.4

	Current	%	Policy	%
Domestic Equity	\$878,699,277	43.7%	\$482,533,666	24.0%
International Equity	\$431,364,679	21.5%	\$482,533,666	24.0%
Domestic Fixed Income	\$427,082,496	21.2%	\$442,322,527	22.0%
Real Estate	\$138,028,183	6.9%	\$188,992,353	9.4%
Alternatives	\$115,722,816	5.8%	\$394,069,161	19.6%
Cash and Equivalents	\$19,659,490	1.0%	\$20,105,569	1.0%
Total	\$2,010,556,942	100.0%	\$2,010,556,942	100.0%

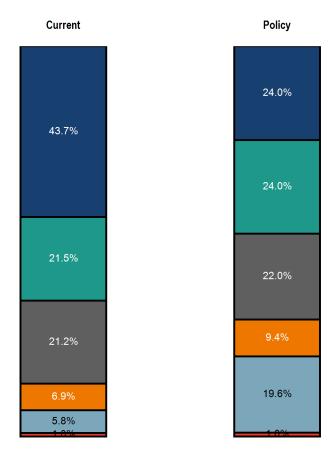


Policy Index (7/1/2017): 18.5% Russell 1000, 5.5% Russell 2000, 24% MSCI ACWI ex-USA, 19% BBgBarc US Gov't/Credit 1-3 Yr, 3% BBgBarc US Treasury 7-10 Yr, 7.7% NCREIF Property, 1.7% NCREIF Property +2%, 0.6% CPI +5%, 5% BBgBarc US High Yield +2%, 14% 60% MSCI ACWI / 40% BBgBarc Global Aggregate, 1% Citi 1 Month T-Bills. All data is preliminary.



	Market Value	% of Portfolio	1 Mo	YTD	Fiscal YTD
DFA	263,930,234	13.1			
BofA Merrill Lynch US Corp & Gov 1-5 Yrs					
Northern Trust Intermediate Gov't Bond	43,765,618	2.2			
BBgBarc US Govt/Credit Int TR					
Northern Trust Long Term Gov't Bond	14,649,566	0.7			
BBgBarc US Govt/Credit Long TR					
Real Estate	138,028,183	6.9	0.2	4.0	0.2
DJ US Select RESI			0.9	2.3	0.9
Prime Property Fund	17,599,725	0.9	0.0	4.2	0.0
NCREIF-ODCE			0.0	3.5	0.0
American Strategic Value Realty	22,166,437	1.1	0.0	5.3	0.0
NCREIF Property Index			0.0	3.3	0.0
BlackRock US Real Estate	85,444,701	4.2	0.9	2.3	0.9
DJ US Select RESI TR USD			0.9	2.3	0.9
Greenfield Gap	12,817,321	0.6			
Direct Lending	96,580,267	4.8			
Medley Capital	22,996,174	1.1			
Raven Capital	15,453,392	0.8			
Raven Opportunity III	22,167,651	1.1			
White Oak Pinnacle	35,963,051	1.8			
Infrastructure	19,142,549	1.0			
MS Infrastructure Partners II	19,142,549	1.0			
Cash Account	19,659,490	1.0	0.1	0.6	0.1

Total	\$2,010,556,942	100.0%	\$2,010,556,942	100.0%
Cash and Equivalents	\$19,659,490	1.0%	\$20,105,569	1.0%
Alternatives	\$115,722,816	5.8%	\$394,069,161	19.6%
Real Estate	\$138,028,183	6.9%	\$188,992,353	9.4%
Domestic Fixed Income	\$427,082,496	21.2%	\$442,322,527	22.0%
International Equity	\$431,364,679	21.5%	\$482,533,666	24.0%
Domestic Equity	\$878,699,277	43.7%	\$482,533,666	24.0%
	Current	%	Policy	%



Policy Index (7/1/2017): 18.5% Russell 1000, 5.5% Russell 2000, 24% MSCI ACWI ex-USA, 19% BBgBarc US Gov't/Credit 1-3 Yr, 3% BBgBarc US Treasury 7-10 Yr, 7.7% NCREIF Property, 1.7% NCREIF Property +2%, 0.6% CPI +5%, 5% BBgBarc US High Yield +2%, 14% 60% MSCI ACWI / 40% BBgBarc Global Aggregate, 1% Citi 1 Month T-Bills. Cash Account includes cash held at Northern Trust for all closed end funds and cash held by BlackRock. All data is preliminary.









PERIOD ENDING: JUNE 30, 2017

Investment Performance Review for

Stanislaus County Employees' Retirement Association

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SEATTLE 206-622-3700 LOS ANGELES 310-297-1777 SAN FRANCISCO 415-362-3484

Investment Landscape

TAB I

Investment Performance Review TAB II



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2nd quarter summary

THE ECONOMIC CLIMATE

- Developed and emerging economies have exhibited coordinated positive growth for the first time in this recovery. Absolute growth remains subdued relative to history. p. 15
- Economic releases have begun to miss expectations in the U.S. and U.K. after much upside surprise. The Eurozone continued to deliver positive surprises, but by a smaller margin. Heightened expectations help to explain some of the recent data disappointment.
 p. 10
- Despite a healthy economy and longer than average expansion there is little indication of overheating in the U.S. This suggests the current expansion may have more room to run. p. 7

MARKET PORTFOLIO IMPACTS

- Treasury yields fell slightly over the quarter. p. 19
- Credit spreads are tight, implying limited upside performance potential. U.S. credit markets have stabilized from recent defaults in the energy and metals/mining sectors. p. 20

THE INVESTMENT CLIMATE

- Central banks communicated a more hawkish tone across developed markets. The Fed announced plans for balance sheet reduction, the ECB is expected to reduce easing starting next year, and Mark Carney of the BOE indicated he is receptive to tightening under the right conditions. Central bank governors have shown less concern over the recent decline in inflation than in the past. p. 18
- U.S. equities are expected to deliver robust earnings growth in Q2 of 6.8% YoY. Energy sector earnings have provided much of this improvement after a challenging period a year ago . p. 30

ASSET ALLOCATION ISSUES

- Earnings growth beat expectations in recent quarters leading to a broad fall in equity price-to-earnings multiples, causing equities to become more attractive. p. 29
- Realized and implied market volatility is at historic lows across assets classes. This could be a sign of market complacency. p. 31

We maintain a neutral to slightly overweight risk stance

What drove the market in Q2?

"Bonds Continue Decline as Central Banks Signal Waning Stimulus"

10-YEAR GOVERNMENT YIELDS (%)

<u>U.S.</u>		<u>U.K.</u>		<u>Ger</u>	many
Jun 1 st	Jul 7 th	Jun 1 st	Jul 7 th	Jun 1 st	Jul 7 th
2.21	2.38	1.07	1.31	0.30	0.57

Article Source: New York Times, June 30th 2017

"Investors Look to Global Growth for Earnings Power"

EQUITY EARNINGS GROWTH BY REGION (YOY)

ACWI ex U.S.	U.S.	Emerging Markets
12.0%	8.8%	18.5%

Article Source: Reuters, April 7th 2017

"Dollar Has Worst Week in Over a Year Amid Political Uncertainty"

USD TRADE WEIGHTED INDEX

Jan 31 st	Feb 28 th	Mar 31 st	Apr 30 th	May 31 st	Jun 30 th
127	126	124	124	123	122

Article Source: Reuters, May 19th 2017

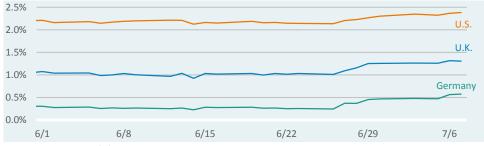
"Tumbling U.S. Inflation Expectations Challenge the Fed"

10-YEAR BREAKEVEN INFLATION RATE (%)

Jan 31 st	Feb 28 th	Mar 31 st	Apr 30 th	May 31 st	Jun 30 th
2.1	2.0	2.0	1.9	1.8	1.7

Article Source: Financial Times. June 15th 2017

DEVELOPED 10-YEAR YIELDS



Source: Bloomberg, 7/7/17

EARNINGS GROWTH (YOY)



Source: Bloomberg, as of 6/30/17

USD TRADE WEIGHTED INDEX



Source: FRED, as of 6/28/17



Economic environment



U.S. economics summary

- U.S. real GDP grew 2.1% YoY in Q1, on par with the level of economic expansion in recent quarters.
 Consumer spending and business investment were the primary drivers of growth.
- Headline inflation decelerated from 2.4% in February to 1.6% in June. The slowdown was partially influenced by the effect of lower oil prices falling out of the yearover-year calculation, but the fall in price level was not solely due to energy. Lower telecom prices helped lead to a drop in core CPI, which fell from 2.0% to 1.7%.
- For a third consecutive quarter, the Fed raised the target federal funds rate by 25 bps. FOMC members looked past the recent soft patch in inflation and cited improving overall economic conditions.

- The Fed also released details on its balance sheet normalization plan, although timing remains unclear. Once the program begins, \$6 billion in Treasuries and \$4 billion in mortgage-backed securities will roll off the balance sheet each month. These amounts will increase every three months until a total cap of \$50 billion per month is reached.
- The economy added 194,000 jobs per month in the second quarter, on average. This marks the best quarter for job growth since the second quarter of 2010. Many of these jobs have been created in lower paying sectors such as leisure and hospitality, which may be helping to keep overall wage growth subdued.

	Most Recent	12 Months Prior
GDP (annual YoY)	2.1% 3/31/17	1.6% 3/31/16
Inflation (CPI YoY, Headline)	1.6% 6/30/17	0.9% 6/30/16
Expected Inflation (5yr-5yr forward)	1.8% 6/30/17	1.5% 6/30/16
Fed Funds Rate	1.25% 6/30/17	0.50% 6/30/16
10 Year Rate	2.3% 6/30/17	1.5% 6/30/16
U-3 Unemployment	4.4% 6/30/17	4.9% 6/30/16
U-6 Unemployment	8.6% 6/30/17	9.6% 6/30/16



U.S. economics – GDP growth

Real GDP grew 2.1% YoY in Q1 (1.4% quarterly annualized rate), slightly below expectations. First quarter growth has disappointed over the past few years, and investors seemed to overlook this release as second quarter growth forecasts were revised upward.

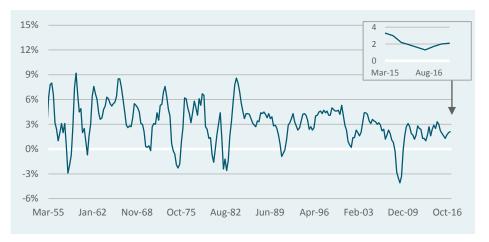
Personal consumption cooled in the first quarter, but was still a positive contributor to GDP. A temporary decline in utilities spending from milder winter weather across the country contributed to the softer growth.

Business investment increased the most in more than three years, and was the largest contributor to growth, suggestive of a rise in business confidence as companies put cash to work. Slower accumulation of private inventories was the largest detractor from GDP.

Economists are forecasting moderate economic growth throughout the rest of the year. Fundamentals for consumers and businesses remain strong even as the Fed is gradually tightening monetary policy.

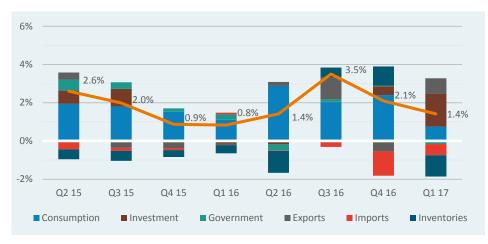
The trend of steady, moderate growth was sustained in Q1

U.S. REAL GDP GROWTH (YOY)



Source: FRED, as of 3/31/17

U.S. GDP COMPONENTS



Source: BEA, annualized quarterly rate, as of 3/31/17



U.S. economics – Labor market

Although low unemployment suggests a tight labor market, the economy still added jobs at a solid pace. Payrolls added an average of 194,000 jobs per month during the second quarter, compared to the expansion average of 198,000. The headline unemployment rate dropped 0.1% to 4.4%, and the broader U-6 unemployment rate fell 0.3% to 8.6%. The U-6 rate, which includes discouraged workers, has come down materially since the beginning of the year as people have reentered the labor force and been able to find work.

Despite low unemployment and other indicators of a tight labor market, workers have yet to experience strong wage gains. Average hourly earnings rose 2.5% on a nominal basis from the previous year and 0.6% on a real basis. Historically, wage growth has been higher during similar times of low unemployment. Mild wage growth is likely tied to the inflow of previously discouraged, less skilled, and less productive workers into the workforce. As these workers begin to participate in the economy they may provide continuing support for expansion.

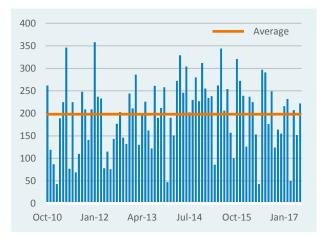
Job growth has been strong, while wages have seen less improvement

U.S. UNEMPLOYMENT



Source: FRED, as of 6/30/17

CHANGE IN NONFARM PAYROLLS (THOUSANDS)



Source: FRED, as of 6/30/17

REAL AVERAGE HOURLY EARNINGS (YOY)



Source: FRED, as of 5/31/17



U.S. economics – The consumer

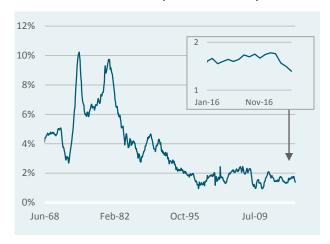
Consumer spending growth has slowed slightly this year, but is within a normal range. The move was partially due to a temporary decline in utilities expenditures. Despite the recent cooling, the fundamental picture for consumers is still positive. Low inflation, low unemployment, and moderate wage gains should provide a backdrop for further spending growth even though it appears less likely that the post-election jump in consumer sentiment will translate into a large increase in spending.

In addition, households have experienced a significant deleveraging over the past few years, and consumers have used credit sparingly in this cycle relative to history. Healthy balance sheets and a low interest burden should also support moderate spending in the future.

A potential risk to the consumer is that borrowing costs such as credit card, auto and student loan interest rates, are expected to rise along with Fed monetary tightening. This will act as a headwind to income and spending, but at this point these borrowing rates have only experienced a slight increase.

Consumer spending has cooled, but is still an important contributor to growth

CONSUMER SPENDING (YOY GROWTH)



Source: Bloomberg, as of 5/31/17

SAVINGS & INCOME (YOY)



Source: FRED, as of 5/31/17

CONSUMER INTEREST RATES



Source: FRED, as of 5/31/17



U.S. economics – Sentiment

Consumer sentiment indicators have trended downward from post-election highs, but remain elevated from a historical perspective. The University of Michigan Consumer Sentiment Index, which tracks both consumers' perception of current conditions and expectations of future conditions, fell from 96.9 to 95.1 during the quarter, its lowest level since the election.

Weakened confidence was fueled by uncertainty surrounding fiscal policies, as reported by the University of Michigan Sentiment Survey. Consumers expect a low likelihood of successful policy implementation. Progress

from the Trump administration on these policies could lead to a positive surprise.

In aggregate, U.S. economic data came in below expectations during the quarter as the Citi Economic Surprise Index fell from 48 to -73. Although the drop is somewhat concerning, this indicator tends to be mean-reverting in nature and some of the decline should be expected. A positive (negative) reading of the Economic Surprise Index suggests that economic releases have on balance been beating (missing) consensus.

Consumer sentiment has faded since the post-election peak

CONSUMER COMFORT INDEX



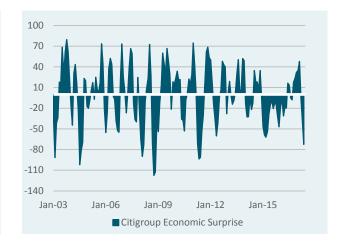
Source: Bloomberg, as of 7/2/17 (see Appendix)

CONSUMER SENTIMENT



Source: University of Michigan, as of 6/30/17 (see Appendix)

U.S. ECONOMIC SURPRISE



Source: Bloomberg, as of 6/30/17 (see Appendix for details)



U.S. economics – Housing

Single family home prices increased at a steady rate amid strong demand and low supply. Over the past 12 months, the Case-Shiller National Home Price Index rose 5.5%. Seattle, Portland, and Dallas reported the highest yearly growth among the top 20 metropolitan areas.

Tighter mortgage lending standards by banks have led to a higher quality pool of borrowers than in the previous real estate cycle. In addition to tighter lending standards, household deleveraging and lower interest rates have been important drivers of lower delinquency and default rates. Mortgage rates spiked following the election, but have since come down slightly.

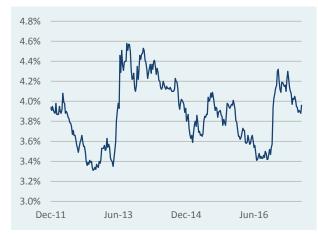
Housing starts and permits declined throughout the quarter, indicating a slowing of construction activity that could weigh on economic growth. The market is already constrained by low supply, and if new construction were to decline further, it may add upward pressure to housing prices.

CASE-SHILLER HOME PRICE INDEX



Source: FRED, as of 4/30/17

30-YEAR MORTGAGE RATE



Source: FRED, as of 7/6/17

HOUSING STARTS AND PERMITS



Source: FRED, as of 5/31/17



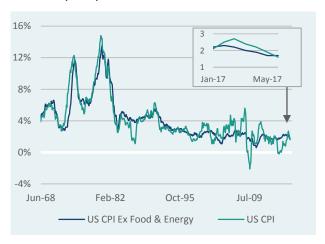
U.S. economics – Inflation

Inflation decelerated during the quarter, falling back below the Fed's target of 2%. Headline CPI fell 0.8% to 1.6% and core CPI (ex food and energy) declined 0.3% to 1.7%. Much of the decline in the headline number was due to lower energy prices, though weakness in telecommunication, apparel, and health care prices also contributed to lower inflation. In her testimony to the Senate, Janet Yellen acknowledged the recent weakness in inflation as a concern, but said she still believes price levels will move gradually higher to reach the Fed's target. Further softness in inflation could give the Fed pause when considering additional tightening.

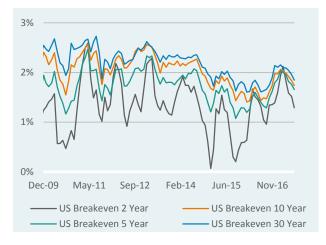
Lower realized inflation, which missed estimates for three consecutive months, helped lead the market to reprice inflation expectations. The 10-year TIPS breakeven inflation rate fell from 2.0% in March to 1.7% in June. Market-based inflation expectations are low compared to history, and participants may simply be naively projecting the current low inflation environment into the future. Late stage cyclical conditions including moderate economic expansion and a tightening labor market could place gradual pressure on inflation.

Inflation decelerated in the second quarter

U.S. CPI (YOY)



U.S. TIPS BREAKEVEN RATES



Source: FRED, as of 6/30/17

INFLATION EXPECTATIONS



Source: Bloomberg, as of 6/30/17



Source: FRED, as of 6/30/17

International economics summary

- Developed and emerging economies have exhibited coordinated positive growth momentum from low absolute growth rates relative to history. A continuation of this trend may be self reinforcing, lifting weak and strong economies alike.
- Economic releases have missed expectations in the U.S. and U.K. after extended upside surprise.
 The Eurozone has delivered positive surprise, but by a smaller margin.
- Oil further contributed to commodity underperformance due to oversupply, disagreements within OPEC regarding production cuts, and concerns over the magnitude of U.S. production.
- Developed world inflation remained within a normal range, though slightly below levels targeted by central banks.

- In May, Emmanuel Macron defeated Marine Le Pen in the French presidential election, calming fears over populist politics gaining an increased foothold in Europe.
- On June 8th, the U.K. held a snap election in which the Conservative party surprised polls and gave up their majority in Parliament, potentially weakening their position in the upcoming Brexit negotiations.
- On June 27th, ECB President Mario Draghi surprised markets with comments perceived as hawkish compared to previous comments. In the following two days the Euro appreciated 2.3% against the U.S. dollar and developed global rates moved upward - German bunds in particular.

	GDP	Inflation	
Area	(Real, YoY)	(CPI, YoY)	Unemployment
United States	2.1% 3/31/17	1.6% 6/30/17	4.4% 6/30/17
Western	1.8%	1.3%	8.1%
Europe	3/31/17	6/30/17	3/31/17
Japan	1.3%	0.4%	3.1%
	3/31/17	5/31/17	5/31/17
BRICS	5.4%	2.3%	5.6%
Nations	3/31/17	3/31/17	12/31/16
Brazil	(0.4%)	3.0%	13.5%
	3/31/17	6/30/17	6/30/17
Russia	0.5% 3/31/17	4.4% 6/30/17	5.5% 3/31/17
India	6.1%	2.2%	8.4%
	3/31/17	5/31/17	12/31/16
China	6.9%	1.5%	4.0%
	3/31/17	5/31/17	12/31/16



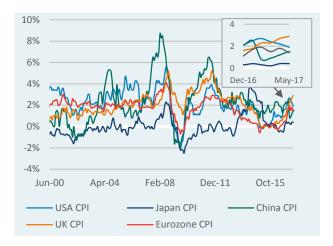
International economics

Eurozone CPI was 1.3% YoY in June, arguably within the bounds of the European Central Bank mandate "...to maintain inflation rates below, but close to, 2% over the medium term." Inflation below 2% likely implies a more dovish central bank stance.

Japan CPI remained low at 0.4% YoY in May. Bank of Japan Governor Haruhiko Kuroda explained in June that "...there is still a long way to go until the price stability target of 2 percent is achieved." The Bank of Japan maintains its aggressive stimulus policy which separates the bank from those of other developed economies.

Employment has improved markedly across the globe, recovering to pre-crisis levels in most economies. Europe remains the exception in terms of aggregate employment, with labor markets displaying disparate levels of health from one country to the next. Core countries such as Germany and France have experienced a much greater fall in unemployment than periphery countries such as Spain and Italy.

INTERNATIONAL INFLATION



Source: Bloomberg, as of 5/31/17

REAL GDP GROWTH



Source: Bloomberg, as of 3/31/17

GLOBAL UNEMPLOYMENT



Source: Bloomberg, as of 5/31/17 or most recent release

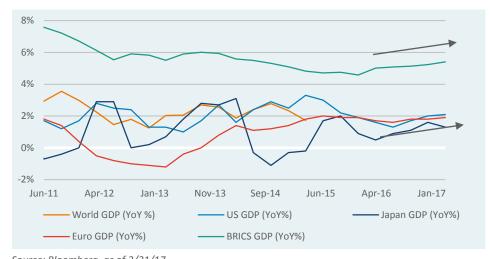


Synchronized global growth

Developed and emerging economies have begun to accelerate. A confluence of low inflation, higher employment (but weak wage pressure), improving consumer/business sentiment, and relatively accommodative central bank policy may lead to a unified global expansion. We expect that this trend would deliver outsized gains to open, export-focused economies. Emerging markets may be noteworthy beneficiaries within this environment, as these economies tend to be highly exposed to global growth trends.

The U.S. economy is arguably further along in its economic cycle than other economies; however, it is important to note that American corporations derive a significant portion of sales from overseas. S&P 500 foreign sales make up more than one third of total index revenue. U.S. corporations could participate substantially in global growth despite a more mild domestic expansion scenario.

REAL GDP GROWTH



Source: Bloomberg, as of 3/31/17

GLOBAL PMI

	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
Manufacturing												
Global	51	51	51	52	52	53	53	53	53	53	53	53
Developed	52	51	52	53	53	54	54	54	54	54	54	54
US	52	49	52	52	54	55	56	58	57	55	55	58
Eurozone	52	52	53	54	54	55	55	55	56	57	57	57
Japan	49	50	50	51	51	52	53	53	52	53	53	52
EM	50	50	50	51	51	51	51	51	52	51	51	51
Services												
Global	52	52	52	53	53	53	54	53	54	54	54	54
Developed	51	52	52	54	54	54	55	54	54	54	54	55
US	55	52	57	55	56	57	57	58	55	58	57	57
Eurozone	53	53	52	53	54	54	54	56	56	56	56	55
Japan	50	50	48	51	52	52	52	51	53	52	53	53
EM	53	53	52	53	54	54	54	56	56	56	56	55

Source: Bloomberg, as of 6/30/17 – (blue stronger / orange weaker)



Fixed income rates & credit



Interest rate environment

- On June 14th, the Federal Reserve raised the federal funds rate by 25 bps to a target range of 1.00% -1.25%.
- The Fed's own forecast indicates one more rate hike this year, and three more hikes in each of the next two years. Rates are expected to normalize at 3% at the end of 2019. We believe the probability that the Fed undershoots its target is significant, given persistent low inflation and a high degree of risk if policy is tightened too quickly.
- The Fed announced plans to begin reducing their balance sheet sometime this year. The initial plan is to runoff \$6 billion of Treasuries and \$4 billion of mortgage-backed securities per month. This will be scaled up commensurately every 3 months to \$50 billion per month.

- Markets expect the ECB to reduce monetary easing gradually throughout 2018, with a tapering plan announcement this fall.
- In May, the Bank of Japan raised its economic forecasts. The central bank implemented a "yield curve control" policy at its September meeting along with a mandate to keep the 10-year yield at 0%. The BoJ plans to maintain an easy stance until inflation hits its 2% target.
- Credit spreads remain broadly tight. Spread levels have historically been a strong predictor of credit performance relative to Treasuries, which at current levels implies muted future performance.
- We favor emerging market debt due to higher yields relative to other bond markets.

Area	Short Term (3M)	10 Year
United States	1.01%	2.30%
Germany	(0.82%)	0.47%
France	(0.60%)	0.82%
Spain	(0.44%)	1.54%
Italy	(0.38%)	2.16%
Greece	2.43%	5.42%
U.K.	0.17%	1.26%
Japan	(0.10%)	0.09%
Australia	1.63%	2.73%
China	2.63%	3.57%
Brazil	9.41%	10.54%
Russia	8.16%	7.90%

Source: Bloomberg, as of 6/30/17



Central bank confidence

- The U.S. Federal Reserve announced plans to begin reducing its balance sheet, which is expected to begin later this year. The initial plan is to runoff \$6 billion of Treasuries and \$4 billion of mortgage-backed securities per month. This will be scaled up commensurately every three months to a total of \$50 billion per month. Considering the Fed balance sheet has grown to \$4.5 trillion in size, it would take nearly seven years of uninterrupted runoff to fully unwind the balance sheet to the pre-crisis level. Central banks are likely aiming to build up more dry powder in order to address future economic downturns.
- Markets expect the ECB to announce a gradual tapering plan to its asset purchase program in the fall that will most likely begin sometime in 2018. More policy timing clues are anticipated from the ECB at the September 7th meeting.
- In the U.K., the argument for a rate hike is building after higher than expected inflation in May. This has likely contributed to recent British Pound appreciation. Mark Carney seems more receptive to rate hikes but has stated that business investment would need to grow to offset weaker consumer spending in order for him to push for a hike.
- The Bank of Japan announced that it would buy unlimited quantities of government bonds to keep yields from rising too far – recently this seems to be defined as 0.1% yield on the 10year government bond. The bank plans to stick to policy until inflation hits the 2% target.

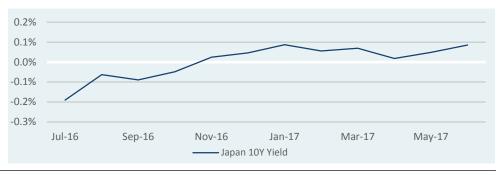
FEDERAL RESERVE BALANCE SHEET



U.K. CPI YOY VS MARKET EXPECTATIONS



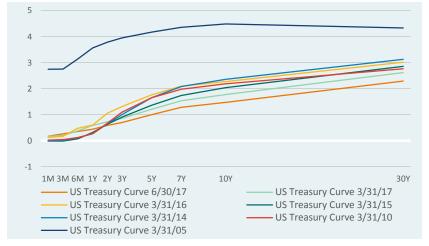
JAPAN 10Y YIELD



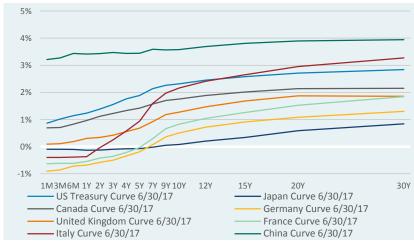


Yield environment

U.S. YIELD CURVE

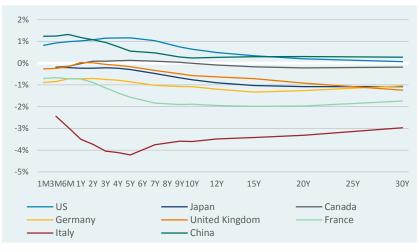


GLOBAL GOVERNMENT YIELD CURVES



Across developed markets, U.S. Treasuries offer higher yields

YIELD CURVE CHANGES OVER LAST FIVE YEARS



IMPLIED CHANGES OVER NEXT YEAR



Source: Bloomberg, as of 6/30/17



Credit environment

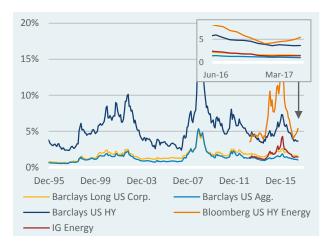
U.S. high yield option-adjusted spreads compressed in the second quarter to 3.6%, and the asset class generated a 2.2% total return (BBgBarc U.S. Corp. High Yield Index). High yield spreads are tighter than those of bank loans on a duration neutral basis.

The U.S. labor market remained strong, which helped the Fed to justify a rate increase of 0.25% in June. Investors continued to favor credit. A combination of tighter credit spreads and additional carry (greater yield) over Treasuries led credit to broadly outperform Treasuries in Q2. Spreads are near historic lows, though these levels

have been witnessed in later stages of previous credit cycles. Credit spreads have historically been a good indicator of future performance relative to Treasuries.

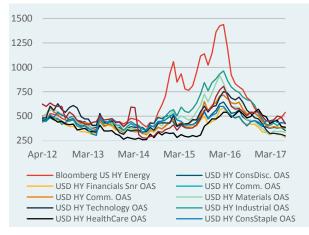
High yield energy spreads widened over the quarter to 5.4% - a very moderate rise relative to what was witnessed following the 2014 commodity drawdown. This lesser magnitude can be partly attributed to better credit ratings of companies in the index today. Additionally, innovation and technological gains have helped lower costs, which allows businesses to stay profitable at lower price levels.

CREDIT SPREADS



Source: Barclays Capital Indices, Bloomberg, as of 6/30/17

HIGH YIELD SECTOR SPREADS



Source: Bloomberg, as of 6/30/17

SPREADS

Market	Credit Spread (6/30/17)	Credit Spread (1 Year Ago)
Long US Corporate	1.6%	2.2%
US Aggregate	1.1%	1.6%
US High Yield	3.6%	5.9%
US High Yield Energy	5.4%	8.0%
US Bank Loans	3.7%	3.9%

Source: Barclays, Credit Suisse, Bloomberg, as of 6/30/17



Issuance and default

Both U.S. senior loan and high yield markets are stabilizing with the majority of par defaults last year coming from energy and metals/mining sectors. Rolling default rates should fall as commodity prices recover and commodity price-induced credit problems have a lesser impact on the credit universe. Active management may offer value to investors in the high yield space.

Global high yield and bank loan issuance has grown at a faster pace than what was seen last year. Lower spread levels have resulted in more attractive borrowing costs for these issuers. The direction of interest rates will likely impact future debt issuance levels.

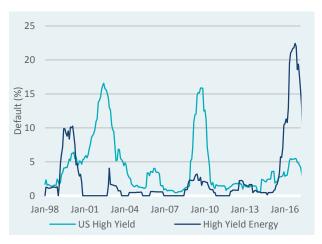
The effects of commodity related defaults are subsiding

HY DEFAULT TRENDS (ROLLING 1 YEAR)



Source: BofA Merrill Lynch, as of 6/30/17

ENERGY DEFAULT TRENDS



Source: BofA Merrill Lynch, as of 6/30/17

GLOBAL ISSUANCE



Source: Bloomberg, BofA Merrill Lynch, as of 6/30/17





Equity environment

- We maintain a moderate overweight to equities with a preference for emerging markets due to attractive valuations and better growth prospects relative to developed markets.
- Global equity markets delivered another positive quarter, driven by strong earnings growth across regions. Earnings were strongest in Western Europe and emerging markets. These regions outperformed on a relative basis during the quarter.
- According to FactSet, the
 estimated Q2 earnings growth
 rate of the S&P 500 is 6.8% YoY.
 Energy companies are expected
 to contribute the most to overall
 growth due to stabilizing oil
 prices and a low earnings base
 one year ago.

- Increased uncertainty surrounding the Brexit negotiations following the Conservative party's surprise loss of a majority in Parliament likely helped lead to underperformance in U.K. equities. The FTSE 100 Index returned -4.9% in Q2.
- MSCI approved the inclusion of 222 mainland Chinese companies (China A Shares) into the MSCI Emerging Markets Index. This represents only a small portion of the overall market. Starting in 2018, these domestic shares will represent approximately 0.7% of the index. While initially this decision will have a minimal effect on index performance, it opens the door for additional China A shares to be added. If the entire market was included, it would represent 12.8% of the MSCI index.

	QTD TOTAL	. RETURN	YTD TOTAL	. RETURN	1 YEAR	
	(unhedged)	(hedged)	(unhedged)	(hedged)	(unhedged)	(hedged)
US Large Cap (Russell 1000)	3.1	%	9.3	%	18.0)%
US Small Cap (Russell 2000)	2.5	%	5.0	%	24.6	5%
US Large Value (Russell 1000 Value)	1.3	%	4.7	%	4.7	%
US Large Growth (Russell 1000 Growth)	4.7	%	14.0	0%	20.4	1%
International Large (MSCI EAFE)	6.1%	3.1%	13.8%	16.1%	20.3%	23.5%
Eurozone (Euro Stoxx 50)	6.5%	3.8%	19.1%	22.5%	26.6%	28.3%
U.K. (FTSE 100)	4.9%	1.2%	10.0%	5.0%	13.6%	17.5%
Japan (NIKKEI 225)	5.1%	6.5%	9.6%	6.6%	19.9%	32.0%
Emerging Markets (MSCI Emerging Markets)	6.3%	6.1%	18.4%	11.6%	23.8%	19.3%

Source: Russell Investments, MSCI, STOXX, FTSE, Nikkei, as of 6/30/17



Domestic equity

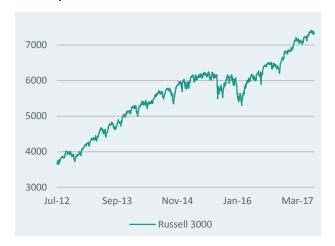
U.S. equities moved higher on robust earnings growth. According to FactSet, the estimated Q2 earnings growth rate of the S&P 500 is 6.8% YoY. Energy companies are expected to contribute the most to overall growth due to a low earnings base one year ago and stabilizing oil prices. The earnings outlook for the rest of the year is strong, and the expected growth rate for the 2017 calendar year is 9.8%. Positive global growth trends could help lift earnings further since a substantial portion of U.S. corporate revenues come from abroad.

All major U.S. banks passed the Fed's stress test in June, citing strong capital levels and ability to lend during a recession. The news drove financials upward as the positive results allowed banks to increase their future dividends and buybacks.

We maintain a neutral weight to U.S. equities

As discussed in recent quarters, we are relatively bullish on U.S. earnings growth in the near term, but investors may be paying for this excess growth upfront through higher valuations. We maintain a neutral weight to U.S. equities.

U.S. EQUITIES



Source: Russell Investments, as of 7/7/17

S&P 500 EPS GROWTH



Source: Bloomberg, as of 6/30/17

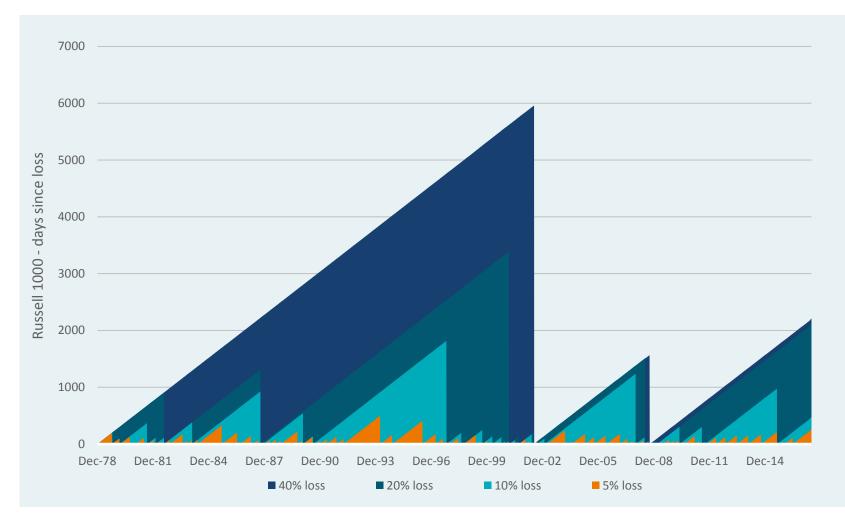
Q2 FORECAST EPS GROWTH



Source: FactSet, as of 7/14/17 - excludes energy sector



Expect surprises



Market surprises are normal and in most cases should not affect longterm portfolio planning

Source: Bloomberg



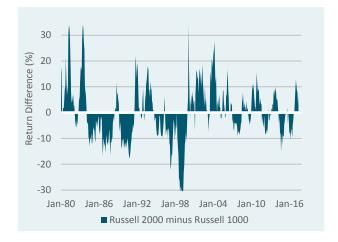
Domestic equity size and style

Despite a short selloff in June, strong returns from the tech sector helped lead to positive relative performance of growth over value during the quarter. Much of the gains were concentrated in the well known mega-cap stocks, including Apple, Amazon, and Microsoft. Momentum in growth stocks has continued to perform well so far this year.

In the second quarter, the Russell 1000 Growth Index and the Russell 1000 Value Index returned 4.7% and 1.3%, respectively. Falling oil prices were a headwind to energy companies, which were the largest detractor from the value index.

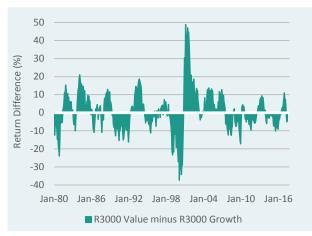
Large cap equities narrowly outperformed small cap equities. Much of the optimism surrounding Trump's prosmall business policies after his victory, including deregulation and tax reform, appears to have faded so far this year. If progress on these measures is made, smaller companies could receive another boost in the second half of 2017.

SMALL CAP VS LARGE CAP (YOY)



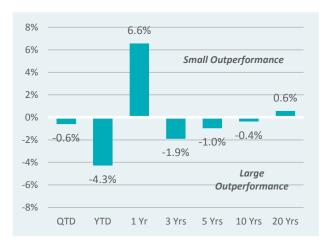
Source: Russell Investments, as of 6/30/17

VALUE VS GROWTH (YOY)



Source: Russell Investments, as of 6/30/17

U.S. LARGE VS. SMALL RELATIVE PERFORMANCE





International equity

International equities outperformed domestic equities over the quarter. The MSCI ACWI ex U.S. returned 5.8% on an unhedged basis while the S&P 500 returned 3.1%.

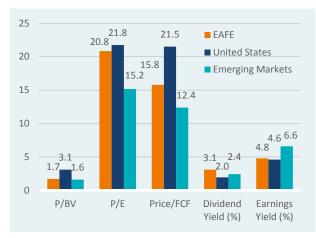
The U.S. dollar has steadily depreciated in value year-to-date against major currencies, down around 7%. This currency movement has added volatility to investors with unhedged currency exposure, with the MSCI EAFE Index returning 13.8% unhedged vs. 16.1% hedged, and the MSCI Emerging Markets Index returning 18.4% unhedged vs. 11.6% hedged.

International equities are trading at lower multiples than domestic equities, based on various metrics. Valuations and earnings growth both play an important role in equity return outcomes and risk. Higher equity valuations imply greater optimism surrounding growth expectations, and greater optimism presents investors with more downside risk as the possibility of disappointment rises. Because of lower valuation levels, international markets may possess greater upside potential through either valuation expansion or positive earnings growth surprise. However, due to apparent tail risks in these markets we maintain a neutral weight in portfolios.

GLOBAL EQUITY PERFORMANCE



VALUATIONS



Source: Bloomberg, MSCI, as of 6/30/17 - 3 month average

EFFECT OF CURRENCY (1 YEAR ROLLING)



Source: MSCI, as of 6/30/17



Source: Bloomberg, as of 6/30/17

Emerging market equity

We maintain an overweight to emerging markets due to attractive valuations and better growth prospects relative to developed markets.

Emerging market equities continue to outperform developed markets, delivering 4.8% in Q2 and 17.1% year-to-date. Currency movement has been additive. Emerging market equity earnings are now expected to grow 22% YoY in 2017, which is a material increase from the 13% YoY increase expected at the beginning of 2017.

Interestingly, valuations have come down slightly despite very strong equity returns, as earnings rise faster than price.

If economic growth turns upward across the globe, we would expect major exporting economies to experience a significant tailwind. Emerging markets in particular tend to provide high exposure to global growth. Stabilizing commodities in this type of environment would likely provide an additional tailwind.

Accelerating global growth should have a positive effect on EM economies

12-MONTH ROLLING PERFORMANCE



Source: MPI, as of 6/30/17

EM EARNINGS GROWTH (YOY)



Source: Bloomberg, as of 6/30/17

TRAILING P/E RATIOS



Source: Bloomberg as of 6/30/17



Equity valuations

Strong global earnings in the first quarter and an increase in expected earnings growth throughout the rest of the year led to lower valuation multiples, especially in international developed markets. A pick up in earnings growth could help normalize P/E ratios.

Despite the recent strong earnings growth, valuation measures remain elevated relative to history. The trailing P/E for the S&P 500 was 21.5 at the end of June, above the 30-year average of 19.2. Higher P/E ratios imply lower future returns, but valuations can stay elevated for long periods of time, and changes are unpredictable.

Looking at the historical differences between regional P/E ratios and the global P/E ratio (ACWI) shows that Japan and emerging markets are the cheapest, while the U.K. and U.S. are the richest. Emerging markets are attractive on a variety of valuation measures. Strong global economic and earnings growth could give these cheaper markets more upside potential than richer markets such as the U.S.

Valuations are elevated, but relative opportunities exist

RELATIVE PE TO ACWI



Source: Bloomberg, as of 6/30/17

TRAILING P/E RATIOS



Source: Bloomberg, as of 6/30/17

INTERNATIONAL FORWARD P/E RATIOS



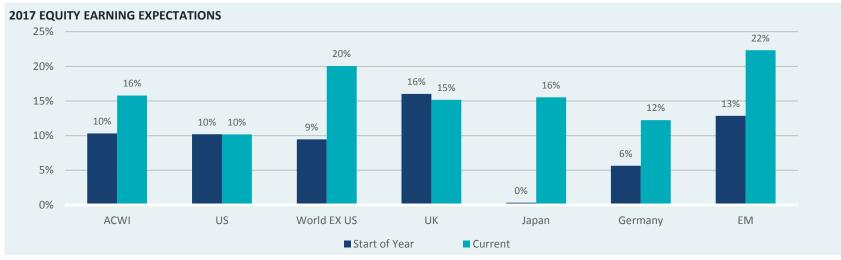
Source: Bloomberg, as of 6/30/17



Global earnings growth



Earnings & earnings expectations have risen considerably across global markets



Source: MSCI, as of 6/30/17



Equity volatility

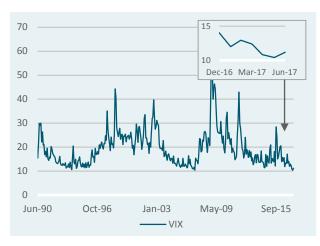
Both realized and implied volatility remains low relative to history across global equity markets. Although there have been a few spikes in implied volatility, including immediately after the first round of the French presidential election and the British general election, these have been short lived. For example, during the recent sell off in U.S. tech companies, the VIX jumped to 15, but fell back down within hours. While low equity market risk has been persistent, volatility can return quickly in an often unpredictable manner. For this reason,

judging portfolio volatility based on the current environment may understate the actual risks.

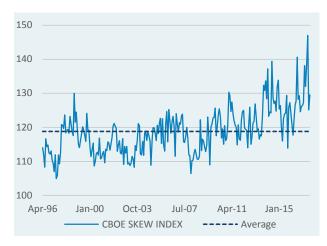
The CBOE Skew Index, which looks at the steepness of the volatility curve is above its historical average, indicates investors are paying a premium for large downside protection.

Equity
volatility is
well below
average, but
within a range
consistent
with past bull
markets

U.S. IMPLIED VOLATILITY

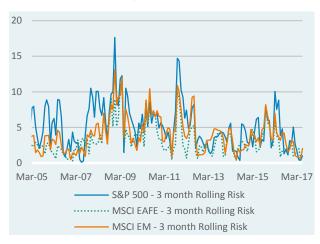


U.S. VOLATILITY SKEW



Source: CBOE, as of 6/30/17

INTERNATIONAL EQUITY VOLATILITY



Source: MSCI, as of 6/30/17



Source: CBOE, as of 6/30/17

Long-term equity performance



Source: MPI, as of 6/30/17



Other assets

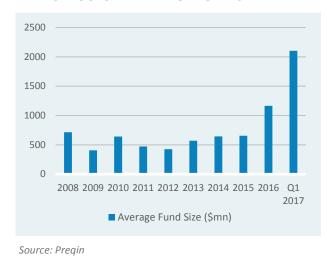
Infrastructure

Global infrastructure performed strongly in the second quarter, with S&P Global Infrastructure Index up 14.4% for the year through June. Transaction multiples in several infrastructure sectors seemed to have peaked over the last year, impacted by rising interest; however, falling Treasury yields during the quarter sent yield-oriented investments higher in value.

Demand remains quite strong for infrastructure assets with institutional investors allocating to commingled funds and an influx of Asian buyers seeking higher yielding investments both in the U.S. and Europe.

We are favorable towards value-add relative to core infrastructure as the risk/reward appears more attractive today. Interest rate sensitivity is generally lower in value-add infrastructure and pricing levels, though elevated, are below comparable core valuations. Within value-add we focus on sector specialists or teams with a track record of successful project development. As an example, in the utility/energy sectors there could be some interesting opportunities in merchant power generation where low natural gas prices and an influx of renewables have put downward pressure on spot power prices.

INFRASTRUCTURE AVERAGE FUND SIZE



LISTED INFRASTRUCTURE VALUATIONS/GROWTH



Source: Capital IQ

VALUATIONS IN MERCHANT POWER

Average enterprise value/earnings before interest, taxes, depreciation and amortization (EV/EBITDA) trading multiples

(on FY2 consensus EBITDA estimates, 2013-Q3 2016)



Source: E&Y



Currency

The U.S. dollar has steadily depreciated in value year-to-date against major currencies, down approximately 7% through quarter-end. Global central bank hawkishness, relative interest rate expectations, and improving international growth have likely guided the U.S. dollar lower.

Emerging market currencies exhibited further strength in Q2 and have appreciated 4.8% year-to-date according to

the JP Morgan Emerging Market Currency Index.

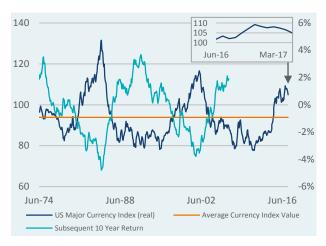
Currency movement has recently had a positive impact on the performance of unhedged foreign asset exposure. Dollar weakness has also acted as a tailwind for corporate earnings for those U.S. companies with revenues in foreign currency.

EFFECT OF CURRENCY (1YR ROLLING)



Source: MPI, as of 6/30/17

U.S. DOLLAR MAJOR CURRENCY INDEX



Source: Federal Reserve, as of 6/30/17

JPM EM CURRENCY INDEX



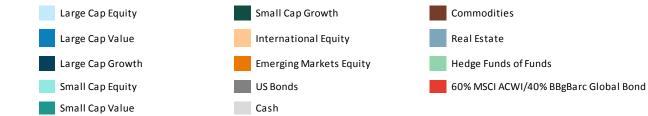
Source: Bloomberg, as of 6/30/17



Appendix

Periodic table of returns

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	YTD	5-Year	10-Year
Emerging Markets Equity	16.6	38.4	23.2	35.2	38.7	66.4	31.8	14.0	25.9	56.3	26.0	34.5	32.6	39.8	5.2	79.0	29.1	14.3	18.6	43.3	13.5	13.3	31.7	18.4	15.3	8.9
Large Cap Growth	8.1	37.8	23.1	32.9	27.0	43.1	22.8	8.4	10.3	48.5	22.2	21.4	26.9	16.2	1.4	37.2	26.9	7.8	18.1	38.8	13.2	5.7	21.3	14.0	14.7	7.8
International Equity	6.4	37.2	22.4	31.8	20.3	33.2	12.2	7.3	6.7	47.3	20.7	20.1	23.5	15.8	-6.5	34.5	24.5	2.6	17.9	34.5	13.0	0.9	17.3	13.8	14.0	7.3
Small Cap Growth	4.4	31.0	21.6	30.5	19.3	27.3	11.6	3.3	1.6	46.0	18.3	14.0	22.2	11.8	-21.4	32.5	19.2	1.5	17.5	33.5	11.8	0.6	12.1	10.0	13.9	6.9
Large Cap Equity	3.2	28.5	21.4	22.4	16.2	26.5	7.0	2.8	1.0	39.2	16.5	7.5	18.4	11.6	-25.9	28.4	16.8	0.4	16.4	33.1	6.0	0.0	11.8	9.3	13.7	6.7
60/40 Global Portfolio	2.6	25.7	16.5	16.2	15.6	24.3	6.0	2.5	-5.9	30.0	14.5	7.1	16.6	10.9	-28.9	27.2	16.7	0.1	16.3	32.5	5.6	-0.4	11.3	8.6	13.4	5.9
Small Cap Equity	0.4	19.6	14.4	13.9	8.7	21.3	4.1	-2.4	-6.0	29.9	14.3	6.3	15.5	10.3	-33.8	23.3	16.1	-2.1	15.3	23.3	4.9	-0.8	11.2	5.0	10.7	5.6
Large Cap Value	-1.5	18.5	11.3	12.9	4.9	20.9	-3.0	-5.6	-11.4	29.7	12.9	5.3	15.1	7.0	-35.6	20.6	15.5	-2.9	14.6	12.1	4.2	-1.4	8.0	4.7	8.7	4.5
Hedge Funds of Funds	-1.8	15.2	10.3	10.6	1.2	13.2	-7.3	-9.1	-15.5	25.2	11.4	4.7	13.3	7.0	-36.8	19.7	13.1	-4.2	11.5	11.0	3.4	-2.5	7.1	3.7	6.7	4.0
US Bonds	-2.0	11.6	9.9	9.7	-2.5	11.4	-7.8	-9.2	-15.7	23.9	9.1	4.6	10.4	5.8	-37.6	18.9	10.2	-5.5	10.5	9.0	2.8	-3.8	5.7	2.3	4.9	3.0
Real Estate	-2.4	11.1	6.4	5.2	-5.1	7.3	-14.0	-12.4	-20.5	11.6	6.9	4.6	9.1	4.4	-38.4	11.5	8.2	-5.7	4.8	0.1	0.0	-4.4	2.6	1.6	4.0	1.9
Small Cap Value	-2.9	7.5	6.0	2.1	-6.5	4.8	-22.4	-19.5	-21.7	9.0	6.3	4.2	4.8	-0.2	-38.5	5.9	6.5	-11.7	4.2	-2.0	-1.8	-7.5	1.0	0.5	2.2	1.0
Cash	-3.5	5.7	5.1	-3.4	-25.3	-0.8	-22.4	-20.4	-27.9	4.1	4.3	3.2	4.3	-1.6	-43.1	0.2	5.7	-13.3	0.1	-2.3	-4.5	-14.9	0.5	0.4	0.2	0.4
Commodities	-7.3	-5.2	3.6	-11.6	-27.0	-1.5	-30.6	-21.2	-30.3	1.0	1.4	2.4	2.1	-9.8	-53.2	-16.9	0.1	-18.2	-1.1	-9.5	-17.0	-24.7	0.3	-5.3	-9.2	-6.5
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Source Data: Morningstar, Inc., Hedge Fund Research, Inc. (HFR), National Council of Real Estate Investment Fiduciaries (NCREIF). Indices used: Russell 1000, Russell 1000 Value, Russell 1000 Value, Russell 2000 Growth, MSCI EAFE, MSCI EM, BBgBarc US Aggregate, T-Bill 90 Day, Bloomberg Commodity, NCREIF Property, HFRI FOF, MSCI ACWI, BBgBarc Global Bond. NCREIF Property Index performance data as of 3/31/17.



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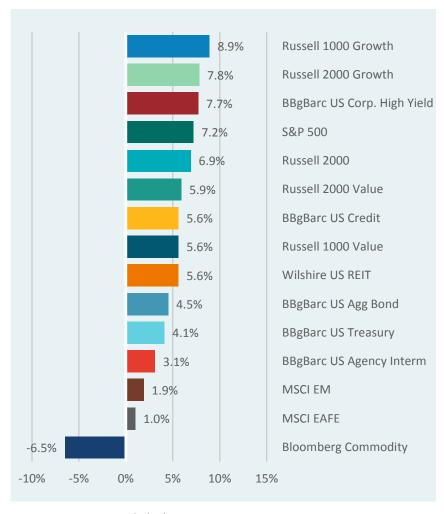
Major asset class returns

ONE YEAR ENDING JUNE



Source: Morningstar, as of 6/30/17

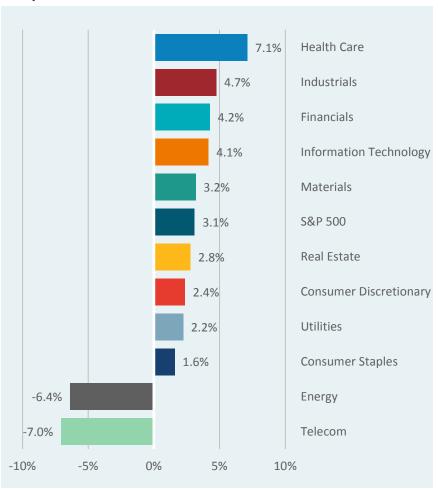
TEN YEARS ENDING JUNE



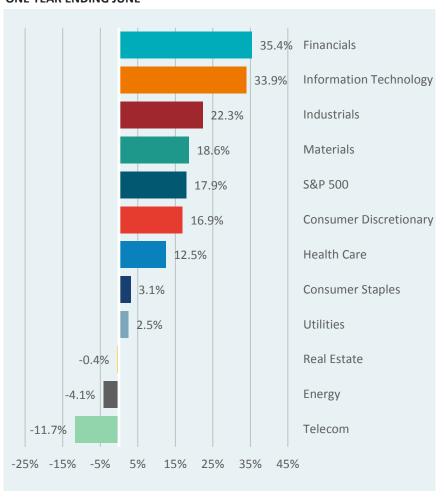


S&P 500 sector returns

2ND QUARTER



ONE YEAR ENDING JUNE



Source: Morningstar, as of 6/30/17



Detailed index returns

MEST		

Month	QTD	YTD	1 Year	3 Year	5 Year	10 Year
0.6	3.1	9.3	17.9	9.6	14.6	7.2
1.2	2.5	8.1	17.3	8.5	15.5	8.3
1.7	4.0	9.3	22.1	11.0	13.5	7.6
0.6	3.2	9.8	18.6	9.9	14.6	7.2
0.7	3.1	9.3	18.0	9.3	14.7	7.3
3.5	2.5	5.0	24.6	7.4	13.7	6.9
0.9	3.0	8.9	18.5	9.1	14.6	7.3
1.0	2.7	8.0	16.5	7.7	14.7	7.7
(0.3)	4.7	14.0	20.4	11.1	15.3	8.9
1.6	1.3	4.7	15.5	7.4	13.9	5.6
3.4	4.4	10.0	24.4	7.6	14.0	7.8
3.5	0.7	0.5	24.9	7.0	13.4	5.9
	0.6 1.2 1.7 0.6 0.7 3.5 0.9 1.0 (0.3) 1.6 3.4	0.6 3.1 1.2 2.5 1.7 4.0 0.6 3.2 0.7 3.1 3.5 2.5 0.9 3.0 1.0 2.7 (0.3) 4.7 1.6 1.3 3.4 4.4	0.6 3.1 9.3 1.2 2.5 8.1 1.7 4.0 9.3 0.6 3.2 9.8 0.7 3.1 9.3 3.5 2.5 5.0 0.9 3.0 8.9 1.0 2.7 8.0 (0.3) 4.7 14.0 1.6 1.3 4.7 3.4 4.4 10.0	0.6 3.1 9.3 17.9 1.2 2.5 8.1 17.3 1.7 4.0 9.3 22.1 0.6 3.2 9.8 18.6 0.7 3.1 9.3 18.0 3.5 2.5 5.0 24.6 0.9 3.0 8.9 18.5 1.0 2.7 8.0 16.5 (0.3) 4.7 14.0 20.4 1.6 1.3 4.7 15.5 3.4 4.4 10.0 24.4	0.6 3.1 9.3 17.9 9.6 1.2 2.5 8.1 17.3 8.5 1.7 4.0 9.3 22.1 11.0 0.6 3.2 9.8 18.6 9.9 0.7 3.1 9.3 18.0 9.3 3.5 2.5 5.0 24.6 7.4 0.9 3.0 8.9 18.5 9.1 1.0 2.7 8.0 16.5 7.7 (0.3) 4.7 14.0 20.4 11.1 1.6 1.3 4.7 15.5 7.4 3.4 4.4 10.0 24.4 7.6	0.6 3.1 9.3 17.9 9.6 14.6 1.2 2.5 8.1 17.3 8.5 15.5 1.7 4.0 9.3 22.1 11.0 13.5 0.6 3.2 9.8 18.6 9.9 14.6 0.7 3.1 9.3 18.0 9.3 14.7 3.5 2.5 5.0 24.6 7.4 13.7 0.9 3.0 8.9 18.5 9.1 14.6 1.0 2.7 8.0 16.5 7.7 14.7 (0.3) 4.7 14.0 20.4 11.1 15.3 1.6 1.3 4.7 15.5 7.4 13.9 3.4 4.4 10.0 24.4 7.6 14.0

FIXED INCOME

	Month	QTD	YTD	1 Year	3 Year	5 Year	10 Year
Broad Index							
BBgBarc US Treasury USTIPS	(0.9)	(0.4)	0.9	(0.6)	0.6	0.3	4.3
BBgBarc US Treasury Bills	0.1	0.2	0.3	0.5	0.3	0.2	0.7
BBgBarc US Agg Bond	(0.1)	1.4	2.3	(0.3)	2.5	2.2	4.5
Duration							
BBgBarc US Treasury 1-3 Yr	(0.1)	0.2	0.5	(0.1)	0.7	0.6	2.0
BBgBarc US Treasury Long	0.4	4.0	5.4	(7.2)	5.6	2.8	7.3
BBgBarc US Treasury	(0.2)	1.2	1.9	(2.3)	2.0	1.3	4.1
Issuer							
BBgBarc US MBS	(0.4)	0.9	1.3	(0.1)	2.2	2.0	4.3
BBgBarc US Corp. High Yield	0.1	2.2	4.9	12.7	4.5	6.9	7.7
BBgBarc US Agency Interm	(0.1)	0.5	1.0	(0.1)	1.4	1.1	3.1
BBgBarc US Credit	0.3	2.4	3.7	1.8	3.4	3.7	5.6

INTERNATIONAL EQUITY

Broad Index							
MSCI ACWI	0.5	4.3	11.5	18.8	4.8	10.5	3.7
MSCI ACWI ex US	0.3	5.8	14.1	20.5	0.8	7.2	1.1
MSCI EAFE	(0.2)	6.1	13.8	20.3	1.1	8.7	1.0
MSCI EM	1.0	6.3	18.4	23.7	1.1	4.0	1.9
MSCI EAFE Small Cap	(0.0)	8.1	16.7	23.2	5.6	12.9	3.4
Style Index							
MSCI EAFE Growth	(0.7)	7.5	16.7	15.7	2.8	9.2	2.1
MSCI EAFE Value	0.3	4.8	11.1	25.0	(0.6)	8.1	(0.1)
Regional Index							
MSCI UK	(1.9)	4.7	10.0	13.3	(3.0)	5.3	0.2
MSCI Japan	1.1	5.2	9.9	19.2	5.5	9.6	1.2
MSCI Euro	(1.2)	7.5	16.6	27.7	0.1	10.4	(0.5)
MSCI EM Asia	1.7	8.6	23.2	27.9	5.0	7.7	3.8
MSCI EM Latin American	0.7	(1.7)	10.1	15.0	(6.6)	(3.8)	(1.1)

OTHER

Index							
Bloomberg Commodity	(0.2)	(3.0)	(5.3)	(6.5)	(14.8)	(9.2)	(6.5)
Wilshire US REIT	2.4	1.8	1.8	(1.7)	8.3	9.3	5.6
CS Leveraged Loans	(0.1)	0.8	2.0	7.5	3.5	4.8	4.2
Regional Index							
JPM EMBI Global Div	(0.1)	2.2	6.2	6.0	5.4	5.7	7.4
JPM GBI-EM Global Div	0.5	3.6	10.4	6.4	(2.8)	(0.7)	4.0
Hedge Funds							
HFRI Composite	(0.6)	0.2	2.6	5.8	1.3	3.7	0.8
HFRI FOF Composite	0.4	1.1	3.7	8.0	2.6	4.9	3.0
Currency (Spot)							
Euro	1.4	6.6	8.1	2.7	(5.9)	(2.1)	(1.7)
Pound	0.6	3.9	5.1	(2.8)	(8.8)	(3.7)	(4.3)
Yen	(1.6)	(8.0)	3.8	(8.7)	(3.4)	(6.6)	0.9



Definitions

Bloomberg US Weekly Consumer Comfort Index - tracks the public's economic attitudes each week, providing a high-frequency read on consumer sentiment. The index, based on cell and landline telephone interviews with a random, representative national sample of U.S. adults, tracks Americans' ratings of the national economy, their personal finances and the buying climate on a weekly basis, with views of the economy's direction measured separately each month. (<u>www.langerresearch.com</u>)

University of Michigan Consumer Sentiment Index - A survey of consumer attitudes concerning both the present situation as well as expectations regarding economic conditions conducted by the University of Michigan. For the preliminary release approximately three hundred consumers are surveyed while five hundred are interviewed for the final figure. The level of consumer sentiment is related to the strength of consumer spending. (www.Bloomberq.com)

Citi Economic Surprise Index - objective and quantitative measures of economic news. Defined as weighted historical standard deviations of data surprises (actual releases vs Bloomberg survey median). A positive reading of the Economic Surprise Index suggests that economic releases have on balance been beating consensus. The indices are calculated daily in a rolling three-month window. The weights of economic indicators are derived from relative high-frequency spot FX impacts of 1 standard deviation data surprises. The indices also employ a time decay function to replicate the limited memory of markets. (www.Bloomberg.com)

Merrill Lynch Option Volatility Estimate (MOVE) Index — a yield curve weighted index comprised of a weighted set of 1-month Treasury options, including 2.5.10 and 30 year tenor contracts. This index is an indicator of the expected (implied) future volatility in the rate markets. (www.Bloomberg.com)

OECD Consumer Confidence Index - based on households' plans for major purchases and their economic situation, both currently and their expectations for the immediate future. Opinions compared to a "normal" state are collected and the difference between positive and negative answers provides a qualitative index on economic conditions. (https://data.oecd.org/)

OECD Business Confidence Index - based on enterprises' assessment of production, orders and stocks, as well as its current position and expectations for the immediate future. Opinions compared to a "normal" state are collected and the difference between positive and negative answers provides a qualitative index on economic conditions. (https://data.oecd.org/)

NFIB Small Business Outlook - Small Business Economic Trends (SBET) is a monthly assessment of the U.S. small-business economy and its near-term prospects. Its data are collected through mail surveys to random samples of the National Federal of Independent Business (NFIB) membership. The survey contains three broad question types: recent performance, near-term forecasts, and demographics. The topics addressed include: outlook, sales, earnings, employment, employee compensation, investment, inventories, credit conditions, and single most important problem. (http://www.nfib-sbet.org/about/)

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Stanislaus County Employees' Retirement Association

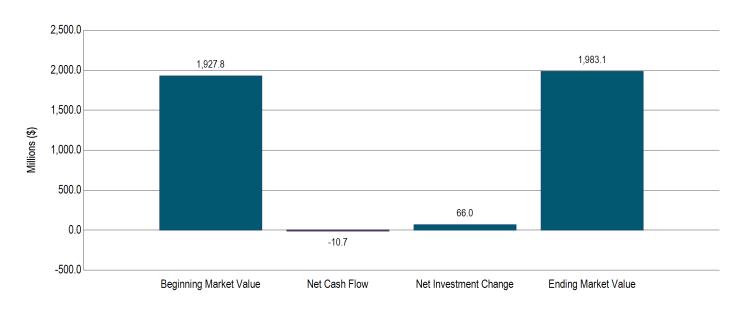
Investment Performance Review Period Ending: June 30, 2017



Portfolio Reconciliation

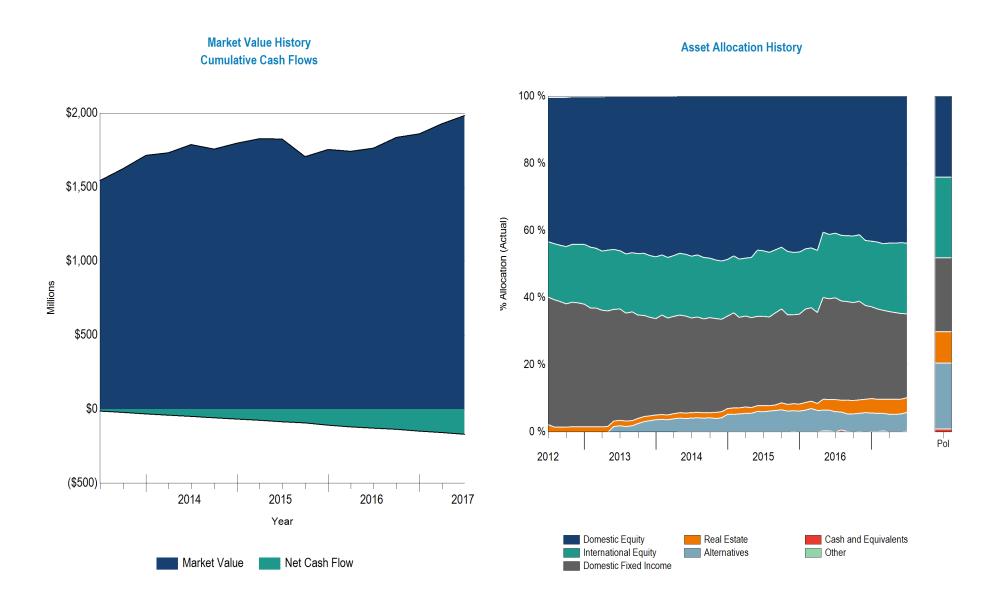
	Last Three Months	Fiscal Year-To-Date	Year-To-Date
Beginning Market Value	\$1,927,763,267	\$1,763,136,187	\$1,859,742,905
Net Cash Flow	-\$10,652,097	-\$37,297,105	-\$19,090,855
Net Investment Change	\$65,971,365	\$257,243,453	\$142,430,485
Ending Market Value	\$1,983,082,534	\$1,983,082,534	\$1,983,082,534

Change in Market Value Last Three Months



Contributions and withdrawals may include intra-account transfers between managers/funds.





Policy Range

14.0% - 23.0%

1.0% - 10.0%

15.0% - 33.0%

15.0% - 29.0%

5.0% - 11.0%

0.0% - 10.0%

0.0% - 10.0%

0.0% - 3.0%

0.0% - 5.0%

9.0% - 19.0%

0.0% - 1.5%

Within IPS

Range?

No

No

Yes

Yes

No

Yes

Yes

Yes

Yes

No

Yes

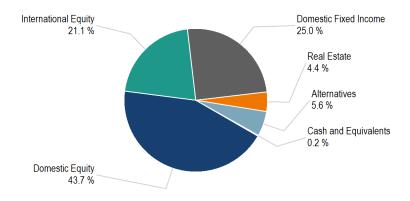
U.S. Equity Large Cap \$665,956,560 33.6% 18.5% U.S. Equity Small Cap \$200,361,658 10.1% 5.5% International Equity \$418,199,312 21.1% 24.0% U.S. Fixed Income \$495,956,391 25.0% 22.0% Real Estate \$65,607,472 3.3% 7.7% Private Equity 0.0% Direct Lending \$92,283,671 4.7% 5.0% Infrastructure \$19,142,549 1.0% 0.6% Value Added \$22,166,437 1.1% 1.7% Risk Parity 14.0% Cash and Equivalents \$3,408,485 0.2% 1.0% Total \$1,983,082,534 100.0%	Policy
8.5% International Equity \$418,199,312 21.1% 24.0% U.S. Fixed Income \$495,956,391 25.0% 22.0% Real Estate \$65,607,472 3.3% 7.7% Private Equity 0.0% Direct Lending \$92,283,671 4.7% 5.0% Infrastructure \$19,142,549 1.0% 0.6% Value Added \$22,166,437 1.1% 1.7% Risk Parity 14.0% Cash and Equivalents \$3,408,485 0.2% 1.0%	
U.S. Fixed Income \$495,956,391 25.0% 22.0% Real Estate \$65,607,472 3.3% 7.7% Private Equity 0.0% Direct Lending \$92,283,671 4.7% 5.0% Infrastructure \$19,142,549 1.0% 0.6% Value Added \$22,166,437 1.1% 1.7% Risk Parity 14.0% Cash and Equivalents \$3,408,485 0.2% 1.0%	
Real Estate \$65,607,472 3.3% 7.7% Private Equity 0.0% Direct Lending \$92,283,671 4.7% 5.0% Infrastructure \$19,142,549 1.0% 0.6% Value Added \$22,166,437 1.1% 1.7% Risk Parity 14.0% Cash and Equivalents \$3,408,485 0.2% 1.0%	
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Direct Lending	
Infrastructure \$19,142,549 1.0% 0.6% Value Added \$22,166,437 1.1% 1.7% Risk Parity 14.0% Cash and Equivalents \$3,408,485 0.2% 1.0%	
\$22,166,437	Direct Lendi
14.0% ivalents \$3,408,485 0.2% 1.0%	Infrastructure
alents \$3,408,485 0.2% 1.0%	Value Added
	Risk Parity
\$1,983,082,534 100.0% 100.0%	Cash and Equivalents
	Total

Cash Account includes cash held at Northern Trust for all closed end funds.



	QTD	YTD	Fiscal YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs
Total Fund	3.4	7.7	14.7	14.7	5.7	9.9	5.8
Policy Index	2.8	6.8	11.3	11.3	5.6	8.8	5.8
InvestorForce Public DB Gross Rank	19	40	10	10	32	13	26
US Equity	3.4	8.9	21.9	21.9	8.6	14.9	6.9
US Equity Blended	3.0	8.4	19.4	19.4	9.0	14.5	7.4
Russell 3000	3.0	8.9	18.5	18.5	9.1	14.6	7.3
InvestorForce All DB US Eq Gross Rank	25	50	10	10	57	20	62
International Equity	6.7	15.0	23.7	23.7	2.5	9.0	2.2
MSCI ACWI ex USA Gross	6.0	14.5	21.0	21.0	1.3	7.7	1.6
InvestorForce All DB ex-US Eq Gross Rank	42	68	20	20	47	38	40
US Fixed Income	1.6	2.9	3.0	3.0	3.4	3.7	5.7
BBgBarc US Aggregate TR	1.4	2.3	-0.3	-0.3	2.5	2.2	4.5
InvestorForce All DB US Fix Inc Gross Rank	51	52	28	28	41	43	42
Real Estate	1.8	3.8	4.6	4.6	10.8	12.4	
DJ US Select RESI	1.6	1.4	-2.4	-2.4	8.0	10.2	
Direct Lending	1.3	-0.7	1.5	1.5	4.8		-
9% Annual	2.2	4.4	6.7	6.7	8.2		
Infrastructure	1.8	-1.0	3.0	3.0		-	-
CPI + 5%	1.7	4.0	5.2	5.2			

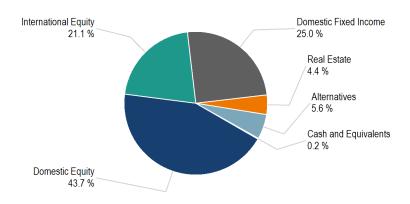
Current Allocation



Policy Index: 14.4% Russell 1000 Value, 11.3% Russell 1000 Growth, 4.8% S&P 500, 4.0% Russell 2000 Value, 3.7% Russell 2000 Growth, 18.0% MSCI ACWI ex USA, 29.8% BBgBarc US Aggregate, 3.5% DJ US Select RESI, 7.5% 9% Annual, 3% CPI + 4%. US Equity Blended: 80% Russell 1000, 20% Russell 2000.

	QTD	YTD	Fiscal YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs
Total Fund	3.4	7.6	14.4	14.4	5.3	9.5	5.5
Policy Index	2.8	6.8	11.3	11.3	5.6	8.8	5.8
US Equity	3.3	8.7	21.5	21.5	8.3	14.6	6.6
US Equity Blended	3.0	8.4	19.4	19.4	9.0	14.5	7.4
Russell 3000	3.0	8.9	18.5	18.5	9.1	14.6	7.3
International Equity	6.6	14.8	23.2	23.2	2.1	8.5	1.7
MSCI ACWI ex USA Gross	6.0	14.5	21.0	21.0	1.3	7.7	1.6
US Fixed Income	1.6	2.9	2.8	2.8	3.2	3.5	5.6
BBgBarc US Aggregate TR	1.4	2.3	-0.3	-0.3	2.5	2.2	4.5
Real Estate	1.8	3.8	4.3	4.3	9.7	11.4	
DJ US Select RESI	1.6	1.4	-2.4	-2.4	8.0	10.2	
Direct Lending	1.3	-0.7	0.9	0.9	3.2	-	
9% Annual	2.2	4.4	6.7	6.7	8.2		
Infrastructure	1.8	-1.0	-1.5	-1.5		-	
CPI + 5%	1.7	4.0	5.2	5.2	-	-	

Current Allocation

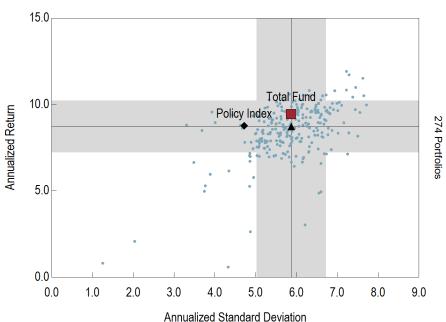


Policy Index: 14.4% Russell 1000 Value, 11.3% Russell 1000 Growth, 4.8% S&P 500, 4.0% Russell 2000 Value, 3.7% Russell 2000 Growth, 18.0% MSCI ACWI ex USA, 29.8% BBgBarc US Aggregate, 3.5% DJ US Select RESI, 7.5% 9% Annual, 3% CPI + 4%. US Equity Blended: 80% Russell 1000, 20% Russell 2000.



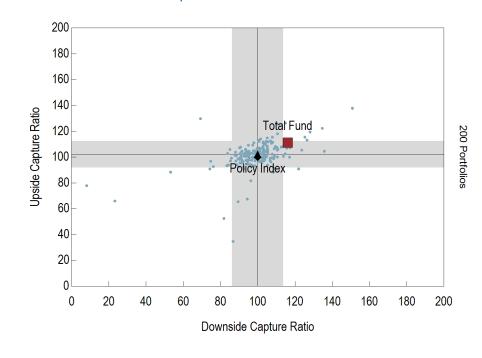
	Anlzd Ret	Ann Excess BM Return	Anlzd Std Dev	Anlzd Alpha	Beta	Tracking Error	R-Squared	Sharpe Ratio	Info Ratio	Up Mkt Cap Ratio	Down Mkt Cap Ratio
Total Fund	9.45%	0.68%	5.87%	-1.11%	1.20	1.75%	0.94	1.58	0.39	111.12%	116.06%

Risk vs. Return



- Total Fund
- Policy Index
- Universe Median
- 68% Confidence Interval
- InvestorForce Public DB Gross

Up Markets vs. Down Markets



- Total Fund
- Policy Index
- ▲ Universe Median
- 68% Confidence Interval
- InvestorForce Public DB Gross

	Market Value	% of Portfolio	3 Mo	YTD	Fiscal YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs	2016	2015	2014	2013	2012
Total Fund	1,983,082,534	100.0	3.4	7.7	14.7	14.7	5.7	9.9	5.8	8.2	-0.3	6.9	19.8	14.3
Policy Index			2.8	6.8	11.3	11.3	5.6	8.8	5.8	8.2	0.2	7.5	15.4	12.3
InvestorForce Public DB Gross Rank			19	40	10	10	32	13	26	31	61	23	12	10
US Equity	866,318,219	43.7	3.4	8.9	21.9	21.9	8.6	14.9	6.9	12.4	-0.2	10.9	36.9	18.8
US Equity Blended			3.0	8.4	19.4	19.4	9.0	14.5	7.4	13.9	-0.1	11.6	34.3	16.7
Russell 3000			3.0	8.9	18.5	18.5	9.1	14.6	7.3	12.7	0.5	12.6	33.6	16.4
InvestorForce All DB US Eq Gross Rank			25	50	10	10	57	20	62	58	63	54	13	6
Mellon S&P 500	96,405,453	4.9	3.1	9.3	17.9	17.9	9.6	14.7	7.2	12.0	1.4	13.7	32.4	16.0
S&P 500			3.1	9.3	17.9	17.9	9.6	14.6	7.2	12.0	1.4	13.7	32.4	16.0
eA US Large Cap Core Equity Gross Rank			47	44	47	47	28	40	65	31	41	42	58	40
BlackRock Russell 1000 Growth	102,682,320	5.2	4.7	14.0	20.5	20.5	11.2	15.4		7.2	5.7	13.1	33.5	15.4
Russell 1000 Growth			4.7	14.0	20.4	20.4	11.1	15.3		7.1	5.7	13.0	33.5	15.3
eA US Large Cap Growth Equity Gross Rank			57	53	53	53	33	39		26	42	37	56	53
Jackson Square	142,614,259	7.2	6.6	14.7	18.2	18.2	7.7	13.7	8.9	-4.4	5.9	13.8	35.6	17.0
Russell 1000 Growth			4.7	14.0	20.4	20.4	11.1	15.3	8.9	7.1	5.7	13.0	33.5	15.3
eA US Large Cap Growth Equity Gross Rank			17	43	73	73	88	79	50	98	39	32	39	36
BlackRock Russell 1000 Value	117,446,306	5.9	1.4	4.7	15.6	15.6	7.5	14.0		17.3	-3.6	13.5	32.6	17.6
Russell 1000 Value			1.3	4.7	15.5	15.5	7.4	13.9		17.3	-3.8	13.5	32.5	17.5
eA US Large Cap Value Equity Gross Rank			71	71	66	66	52	48		26	62	31	59	30
Dodge & Cox-Equity	206,808,222	10.4	1.9	6.8	28.3	28.3	8.9	16.3	6.5	21.4	-3.9	10.9	39.1	22.3
Russell 1000 Value			1.3	4.7	15.5	15.5	7.4	13.9	5.6	17.3	-3.8	13.5	32.5	17.5
eA US Large Cap Value Equity Gross Rank			53	37	2	2	20	9	51	6	64	72	15	3
Legato Capital	95,654,751	4.8	5.5	10.2	22.7	22.7	6.5	13.3		6.4	-0.7	3.0	47.3	18.1
Russell 2000 Growth			4.4	10.0	24.4	24.4	7.6	14.0		11.3	-1.4	5.6	43.3	14.6
eA US Small Cap Growth Equity Gross Rank			40	63	62	62	69	72		79	52	57	41	24
Capital Prospects	104,706,907	5.3	1.8	3.9	27.0	27.0	7.7	15.6		28.1	-7.0	5.8	37.9	23.8
Russell 2000 Value			0.7	0.5	24.9	24.9	7.0	13.4		31.7	-7.5	4.2	34.5	18.1
eA US Small Cap Value Equity Gross Rank			32	23	21	21	47	30		40	72	51	53	9

Individual closed end funds are not shown in performance summary table.



	Market Value	% of Portfolio	3 Mo	YTD	Fiscal YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs	2016	2015	2014	2013	2012
International Equity	418,199,312	21.1	6.7	15.0	23.7	23.7	2.5	9.0	2.2	5.7	-3.7	-4.2	20.0	18.0
MSCI ACWI ex USA Gross			6.0	14.5	21.0	21.0	1.3	7.7	1.6	5.0	-5.3	-3.4	15.8	17.4
InvestorForce All DB ex-US Eq Gross Rank			42	68	20	20	47	38	40	24	51	70	35	63
LSV Asset Mgt	211,624,045	10.7	6.2	14.8	28.1	28.1	2.4	9.5	2.0	8.8	-5.1	-4.0	20.4	16.7
MSCI ACWI ex USA Gross			6.0	14.5	21.0	21.0	1.3	7.7	1.6	5.0	-5.3	-3.4	15.8	17.4
eA ACWI ex-US Equity Unhedged Gross Rank			68	71	10	10	61	54	79	10	86	65	46	78
Fidelity	206,575,267	10.4	7.2	15.2	19.5	19.5	2.5	8.6	2.4	2.4	-2.0	-4.5	19.6	19.3
MSCI ACWI ex USA Gross			6.0	14.5	21.0	21.0	1.3	7.7	1.6	5.0	-5.3	-3.4	15.8	17.4
eA ACWI ex-US Equity Unhedged Gross Rank			49	64	62	62	60	73	69	46	66	70	55	55
US Fixed Income	495,956,391	25.0	1.6	2.9	3.0	3.0	3.4	3.7	5.7	5.4	0.3	6.2	0.3	7.9
BBgBarc US Aggregate TR			1.4	2.3	-0.3	-0.3	2.5	2.2	4.5	2.6	0.6	6.0	-2.0	4.2
InvestorForce All DB US Fix Inc Gross Rank			51	52	28	28	41	43	42	47	42	42	21	48
Dodge & Cox-Fixed	278,953,694	14.1	1.7	3.1	3.6	3.6	3.5	4.0	5.8	5.9	0.2	6.5	0.9	8.4
BBgBarc US Aggregate TR			1.4	2.3	-0.3	-0.3	2.5	2.2	4.5	2.6	0.6	6.0	-2.0	4.2
eA US Core Fixed Inc Gross Rank			27	9	2	2	7	4	7	3	89	26	3	9
PIMCO	117,063,806	5.9	1.4	2.5	1.0	1.0	2.8	2.5		3.7	0.9	5.0	-2.2	5.8
BBgBarc US Aggregate TR			1.4	2.3	-0.3	-0.3	2.5	2.2		2.6	0.6	6.0	-2.0	4.2
eA US Core Fixed Inc Gross Rank			80	56	21	21	50	73		29	49	83	89	54
Insight	99,938,891	5.0												
BBgBarc US Govt/Credit 1-5 Yr. TR														
eA US Short Duration Fixed Inc Gross Rank														
Real Estate	87,773,909	4.4	1.8	3.8	4.6	4.6	10.8	12.4		7.5	12.1	28.3	1.4	5.6
DJ US Select RESI			1.6	1.4	-2.4	-2.4	8.0	10.2		6.6	4.5	31.9	1.3	16.1
Prime Property Fund	17,599,725	0.9	2.2	4.2	9.6	9.6				10.4				
NCREIF-ODCE			1.7	3.5	7.9	7.9				8.8				
American Strategic Value Realty	22,166,437	1.1	2.4	5.3	11.4	11.4				13.1	21.4			
NCREIF Property Index			1.8	3.3	7.0	7.0				8.0	13.3			
BlackRock US Real Estate	35,190,427	1.8	1.6	1.3	-2.4	-2.4	8.0			6.6	4.4	31.9	1.4	
DJ US Select RESI TR USD			1.6	1.4	-2.4	-2.4	8.0			6.6	4.5	31.9	1.3	
eA US REIT Gross Rank			67	87	83	83	83			68	58	39	91	

Individual closed end funds are not shown in performance summary table.



	Market Value	% of Portfolio	3 Mo	YTD	Fiscal YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs	2016	2015	2014	2013	2012	Return Since
Total Fund	1,983,082,534	100.0	3.4	7.6	14.4	14.4	5.3	9.5	5.5	7.7	-0.6	6.5	19.2	14.0	9.2 Dec-94
Policy Index			2.8	6.8	11.3	11.3	5.6	8.8	5.8	8.2	0.2	7.5	15.4	12.3	8.2 Dec-94
US Equity	866,318,219	43.7	3.3	8.7	21.5	21.5	8.3	14.6	6.6	12.1	-0.4	10.7	36.5	18.5	6.8 Jun-01
US Equity Blended			3.0	8.4	19.4	19.4	9.0	14.5	7.4	13.9	-0.1	11.6	34.3	16.7	7.0 Jun-01
Russell 3000			3.0	8.9	18.5	18.5	9.1	14.6	7.3	12.7	0.5	12.6	33.6	16.4	6.8 Jun-01
Mellon S&P 500	96,405,453	4.9	3.1	9.3	17.9	17.9	9.6	14.6	7.2	11.9	1.4	13.7	32.4	16.0	9.3 Apr-03
S&P 500			3.1	9.3	17.9	17.9	9.6	14.6	7.2	12.0	1.4	13.7	32.4	16.0	9.3 Apr-03
BlackRock Russell 1000 Growth	102,682,320	5.2	4.7	14.0	20.5	20.5	11.2	15.3		7.2	5.7	13.1	33.5	15.4	16.5 Jun-10
Russell 1000 Growth			4.7	14.0	20.4	20.4	11.1	15.3		7.1	5.7	13.0	33.5	15.3	16.5 Jun-10
Jackson Square	142,614,259	7.2	6.5	14.4	17.6	17.6	7.3	13.2	8.4	-4.9	5.5	13.4	34.9	16.6	8.9 Aug-06
Russell 1000 Growth			4.7	14.0	20.4	20.4	11.1	15.3	8.9	7.1	5.7	13.0	33.5	15.3	9.8 Aug-06
BlackRock Russell 1000 Value	117,446,306	5.9	1.4	4.7	15.6	15.6	7.4	14.0		17.3	-3.6	13.5	32.6	17.6	13.8 Jul-09
Russell 1000 Value			1.3	4.7	15.5	15.5	7.4	13.9		17.3	-3.8	13.5	32.5	17.5	13.7 Jul-09
Dodge & Cox-Equity	206,808,222	10.4	1.8	6.7	28.0	28.0	8.7	16.1	6.3	21.2	-4.0	10.7	38.8	22.1	12.2 Dec-94
Russell 1000 Value			1.3	4.7	15.5	15.5	7.4	13.9	5.6	17.3	-3.8	13.5	32.5	17.5	10.1 Dec-94
Legato Capital	95,654,751	4.8	5.3	9.7	21.8	21.8	5.8	12.5		5.6	-1.3	2.5	46.0	17.4	15.3 Dec-08
Russell 2000 Growth			4.4	10.0	24.4	24.4	7.6	14.0		11.3	-1.4	5.6	43.3	14.6	16.0 Dec-08
Capital Prospects	104,706,907	5.3	1.6	3.5	26.0	26.0	7.1	14.9		27.1	-7.5	5.2	36.8	23.2	15.4 Dec-08
Russell 2000 Value			0.7	0.5	24.9	24.9	7.0	13.4		31.7	-7.5	4.2	34.5	18.1	13.2 Dec-08
International Equity	418,199,312	21.1	6.6	14.8	23.2	23.2	2.1	8.5	1.7	5.0	-4.0	-4.5	19.4	17.5	5.6 Jun-01
MSCI ACWI ex USA Gross			6.0	14.5	21.0	21.0	1.3	7.7	1.6	5.0	-5.3	-3.4	15.8	17.4	6.3 Jun-01
LSV Asset Mgt	211,624,045	10.7	6.1	14.5	27.4	27.4	2.0	9.0	1.4	8.2	-5.4	-4.2	19.8	16.2	6.8 Aug-04
MSCI ACWI ex USA Gross			6.0	14.5	21.0	21.0	1.3	7.7	1.6	5.0	-5.3	-3.4	15.8	17.4	6.8 Aug-04
Fidelity	206,575,267	10.4	7.2	15.2	19.2	19.2	2.1	8.1	1.9	1.8	-2.3	-4.9	19.1	18.8	3.6 Apr-06
MSCI ACWI ex USA Gross			6.0	14.5	21.0	21.0	1.3	7.7	1.6	5.0	-5.3	-3.4	15.8	17.4	3.4 Apr-06
US Fixed Income	495,956,391	25.0	1.6	2.9	2.8	2.8	3.2	3.5	5.6	5.2	0.2	6.1	0.1	7.7	5.7 Jun-01
BBgBarc US Aggregate TR			1.4	2.3	-0.3	-0.3	2.5	2.2	4.5	2.6	0.6	6.0	-2.0	4.2	4.7 Jun-01
Dodge & Cox-Fixed	278,953,694	14.1	1.6	3.0	3.5	3.5	3.4	3.9	5.7	5.7	0.1	6.4	8.0	8.3	6.7 Dec-94
BBgBarc US Aggregate TR			1.4	2.3	-0.3	-0.3	2.5	2.2	4.5	2.6	0.6	6.0	-2.0	4.2	5.8 Dec-94
PIMCO	117,063,806	5.9	1.3	2.3	0.7	0.7	2.5	2.2		3.4	0.6	4.7	-2.5	5.5	3.6 May-10
BBgBarc US Aggregate TR			1.4	2.3	-0.3	-0.3	2.5	2.2		2.6	0.6	6.0	-2.0	4.2	3.4 May-10
Insight	99,938,891	5.0													Jun-17
BBgBarc US Govt/Credit 1-5 Yr. TR															Jun-17

Individual closed end funds are not shown in performance summary table.



	Market Value	% of Portfolio	3 Mo	YTD	Fiscal YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs	2016	2015	2014	2013	2012	Return	Since
Real Estate	87,773,909	4.4	1.8	3.8	4.3	4.3	9.7	11.4		6.6	10.5	27.4	1.3	2.7	3.1	Feb-08
DJ US Select RESI			1.6	1.4	-2.4	-2.4	8.0	10.2		6.6	4.5	31.9	1.3	16.1	5.4	Feb-08
Prime Property Fund	17,599,725	0.9	2.2	4.2	9.1	9.1				9.2					9.6	Sep-15
NCREIF-ODCE			1.7	3.5	7.9	7.9				8.8					9.0	Sep-15
American Strategic Value Realty	22,166,437	1.1	2.4	5.3	10.9	10.9				11.7	18.3				14.2	Dec-14
NCREIF Property Index			1.8	3.3	7.0	7.0				8.0	13.3				9.8	Dec-14
BlackRock US Real Estate	35,190,427	1.8	1.6	1.3	-2.5	-2.5	7.9			6.6	4.4	31.9	1.3		9.5	Sep-12
DJ US Select RESI TR USD			1.6	1.4	-2.4	-2.4	8.0			6.6	4.5	31.9	1.3		9.6	Sep-12

				Verus Internal Analysis							
Inception Date	Manager Name/Fund Name	Estimated Market Value as of 6/30/2017 ³	Total Commitment	Capital Called	% Called	Remaining Commitment	Total Distributions	Distrib./ Paid-In (DPI) ¹	Tot. Value/ Paid-In (TVPI) ²	Latest Valuation	
Real Estate 7/31/2014	Greenfield Gap	\$12,817,321	\$15,000,000	\$11,021,141	73%	\$3,978,859	\$1,137,413	10.3%	126.6%	3/31/2017	
1/31/2014	Greenlieid Gap	\$12,017,321	\$15,000,000	\$11,021,141	1370	\$3,976,639	\$1,137,413	10.3%	120.0%	3/3 1/2017	
	Total Real Estate	\$12,817,321	\$15,000,000	\$11,021,141	73%	\$3,978,859	\$1,137,413	10.3%	126.6%		
	% of Portfolio (Market Value)	0.6%									
Direct Lend	ling										
	Medley Capital	\$22,996,174	\$30,000,000	\$29,000,453	97%	\$999,547	\$16,489,758	56.9%	136.2%	3/31/2017	
5/31/2013	Raven Capital	\$15,453,392	\$40,000,000	\$34,505,763	86%	\$5,494,237	\$20,439,805	59.2%	104.0%	3/31/2017	
7/31/2015	Raven Opportunity III	\$18,090,723	\$50,000,000	\$17,214,515	34%	\$32,785,485	\$200,411	1.2%	106.3%	3/31/2017	
8/31/2013	White Oak Pinnacle Total Direct Lending	\$35,743,382 \$92,283,671	\$40,000,000 \$160,000,000	\$40,000,000 \$120,720,731	100% 75%	\$5,153,060 \$44,432,329	\$29,602,846 \$66,732,820	74.0% 55.3%	163.4% 131.7%	3/31/2017	
	% of Portfolio (Market Value)	4.7%									
Infrastructu	ıre										
5/31/2015	MS Infrastructure Partners II	\$19,142,549	\$50,000,000	\$20,016,500	40%	\$29,983,500	\$122,400	0.6%	96.2%	3/31/2017	
	Total Infrastructure	\$19,142,549	\$50,000,000	\$20,016,500	40%	\$29,983,500	\$122,400	0.6%	96.2%		
	% of Portfolio (Market Value)	1.0%									

⁴ Includes deemed contributions, which are amounts withheld from distributions and applied to fulfill capital calls.



^{1 (}DPI) is equal to (capital returned / capital called) 2 (TVPI) is equal to (market value + capital returned) / capital called

³ Last known market value + capital calls - distributions

Real Estate	Inception	Fund Level (G)	StanCERA (G)	Fund Level (N)	StanCERA (N)	IRR Date
Greenfield Gap	7/31/2014	17.3%	18.8%	13.6%	13.3%	3/31/2017
Direct Lending						
Medley Capital	5/31/2013	8.7%	7.7%	6.8%	5.3%	3/31/2017
Raven Capital	5/31/2013	5.3%	5.3%	1.7%	1.7%	3/31/2017
Raven Opportunity III	7/31/2015	5.2%	5.2%	-10.8%	-10.8%	3/31/2017
White Oak Pinnacle	8/31/2013	13.3%	14.5%	8.4%	8.6%	3/31/2017
Infrastructure						
MS Infrastructure Partners II	5/31/2015	9.1%	9.1%	-1.7%	-5.4%	3/31/2017

3 Years		
Beta	Tracking Error	R-Squared
1.00	0.02%	1.00

	Anlzd Ret	Ann Excess BM Return	Anlzd Std Dev	Anlzd Alpha	Beta	Tracking Error	R-Squared	Sharpe Ratio	Info Ratio	Up Mkt Cap Ratio	Down Mkt Cap Ratio
Mellon S&P 500	9.61%	0.00%	6.96%	0.00%	1.00	0.02%	1.00	1.35	-0.03	99.93%	99.75%
BlackRock Russell 1000 Growth	11.16%	0.05%	7.53%	0.05%	1.00	0.05%	1.00	1.45	1.06	100.48%	100.07%
Jackson Square	7.30%	-3.81%	11.32%	-7.29%	1.31	5.99%	0.76	0.62	-0.64	73.85%	136.05%
BlackRock Russell 1000 Value	7.45%	0.09%	8.02%	0.12%	0.99	0.07%	1.00	0.90	1.21	100.45%	98.83%
Dodge & Cox-Equity	8.70%	1.34%	10.13%	0.67%	1.09	5.09%	0.75	0.83	0.26	117.21%	107.58%
Legato Capital	5.80%	-1.84%	13.43%	-1.65%	0.98	2.62%	0.96	0.41	-0.70	92.48%	107.96%
Capital Prospects	7.05%	0.03%	12.52%	0.91%	0.88	2.86%	0.97	0.54	0.01	88.05%	81.92%
LSV Asset Mgt	1.97%	0.71%	12.53%	0.62%	1.07	2.78%	0.95	0.14	0.25	111.20%	102.19%
Fidelity	2.12%	0.86%	10.97%	0.93%	0.94	2.21%	0.96	0.17	0.39	105.39%	95.46%
Dodge & Cox-Fixed	3.42%	0.94%	2.62%	1.81%	0.65	1.84%	0.71	1.22	0.51	95.87%	39.36%
PIMCO	2.51%	0.03%	2.93%	0.39%	0.85	0.70%	0.97	0.77	0.04	90.31%	77.07%
BlackRock US Real Estate	7.92%	-0.09%	12.59%	-0.08%	1.00	0.03%	1.00	0.61	-3.18	99.41%	100.34%

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5	v	^^	PC.

	Anlzd Ret	Ann Excess BM Return	Anlzd Std Dev	Anlzd Alpha	Beta	Tracking Error	R-Squared	Sharpe Ratio	Info Ratio	Up Mkt Cap Ratio	Down Mkt Cap Ratio
Mellon S&P 500	14.62%	-0.01%	7.68%	0.00%	1.00	0.02%	1.00	1.88	-0.52	99.87%	99.71%
BlackRock Russell 1000 Growth	15.34%	0.04%	8.05%	0.05%	1.00	0.05%	1.00	1.88	0.84	100.30%	99.79%
Jackson Square	13.20%	-2.10%	11.04%	-6.00%	1.25	4.88%	0.84	1.18	-0.43	86.03%	119.01%
BlackRock Russell 1000 Value	14.00%	0.06%	8.51%	0.11%	1.00	0.06%	1.00	1.63	1.05	100.31%	98.83%
Dodge & Cox-Equity	16.14%	2.20%	9.88%	1.52%	1.05	4.19%	0.82	1.62	0.53	120.66%	107.58%
Legato Capital	12.49%	-1.49%	13.06%	-1.72%	1.02	2.67%	0.96	0.94	-0.56	92.94%	107.96%
Capital Prospects	14.88%	1.49%	11.74%	2.35%	0.94	3.03%	0.94	1.25	0.49	104.02%	81.92%
LSV Asset Mgt	8.98%	1.27%	11.67%	0.74%	1.07	2.28%	0.97	0.76	0.56	113.26%	100.66%
Fidelity	8.11%	0.41%	10.19%	0.98%	0.93	2.38%	0.95	0.78	0.17	97.41%	89.70%
Dodge & Cox-Fixed	3.93%	1.72%	2.65%	2.28%	0.74	1.52%	0.76	1.42	1.13	114.88%	27.38%
PIMCO	2.16%	-0.05%	2.96%	0.10%	0.93	0.68%	0.95	0.67	-0.08	94.40%	91.33%

Performance Analysis excludes closed end funds and those funds without 3 and 5 years of performance.



Total Fund Investment Fund Fee Analysis

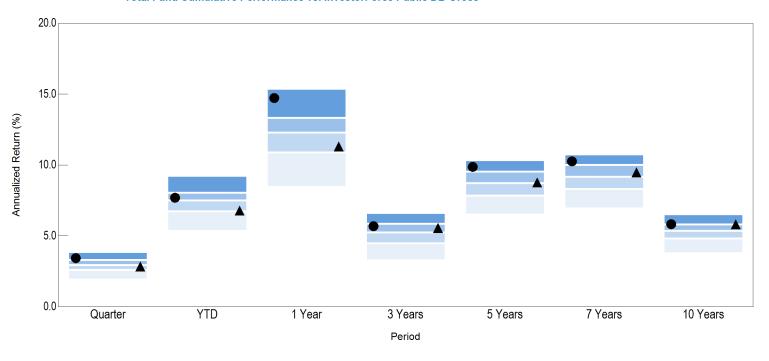
Period Ending: June 30, 2017

Name	Asset Class	Fee Schedule	Market Value	Estimated Fee Value	Estimated Fee
Mellon S&P 500	Domestic Equity	0.04% of Assets	\$96,405,453	\$33,742	0.04%
BlackRock Russell 1000 Growth	Domestic Equity	0.02% of Assets	\$102,682,320	\$20,536	0.02%
Jackson Square	Domestic Equity	0.50% of First \$100.0 Mil, 0.45% Thereafter	\$142,614,259	\$691,764	0.49%
BlackRock Russell 1000 Value	Domestic Equity	0.02% of Assets	\$117,446,306	\$23,489	0.02%
Dodge & Cox-Equity	Domestic Equity	0.40% of First \$10.0 Mil, 0.20% of Next \$90.0 Mil, 0.15% Thereafter	\$206,808,222	\$380,212	0.18%
Legato Capital		0.77% of Assets	95,654,751	\$736,542	0.77%
Capital Prospects		0.75% of Assets	104,706,907	\$785,302	0.75%
LSV Asset Mgt	International Equity	0.75% of First \$25.0 Mil, 0.65% of Next \$25.0 Mil, 0.55% of Next \$50.0 Mil, 0.45% Thereafter	\$211,624,045	\$1,127,308	0.53%
Fidelity	International Equity	0.25% of Assets	\$206,575,267	\$516,438	0.25%
Dodge & Cox-Fixed	Domestic Fixed Income	0.40% of First \$4.0 Mil, 0.30% of Next \$6.0 Mil, 0.20% of Next \$10.0 Mil, 0.10% Thereafter	\$278,953,694	\$312,954	0.11%
PIMCO	Domestic Fixed Income	0.50% of First \$25.0 Mil, 0.38% of Next \$25.0 Mil, 0.25% Thereafter	\$117,063,806	\$386,410	0.33%
Insight	Domestic Fixed Income	0.12% of Assets	\$99,938,891	\$119,927	0.12%
Prime Property Fund	Real Estate	0.84% of Assets	\$17,599,725	\$147,838	0.84%
American Strategic Value Realty	Real Estate	1.25% of First \$10.0 Mil, 1.20% of Next \$15.0 Mil, 1.10% of Next \$25.0 Mil, 1.00% Thereafter	\$22,166,437	\$270,997	1.22%
BlackRock US Real Estate	Real Estate	0.09% of First \$100.0 Mil, 0.07% Thereafter	\$35,190,427	\$31,671	0.09%
Cash Account	Cash and Equivalents	0.10% of Assets	\$3,408,485	\$3,408	0.10%
Total			\$1,858,838,993	\$5,588,539	0.30%

Closed end funds excluded from fee analysis. Fidelity has performance based fees which are not included in the analysis above; fee shown is the annual base fee only.



Total Fund Cumulative Performance vs. InvestorForce Public DB Gross

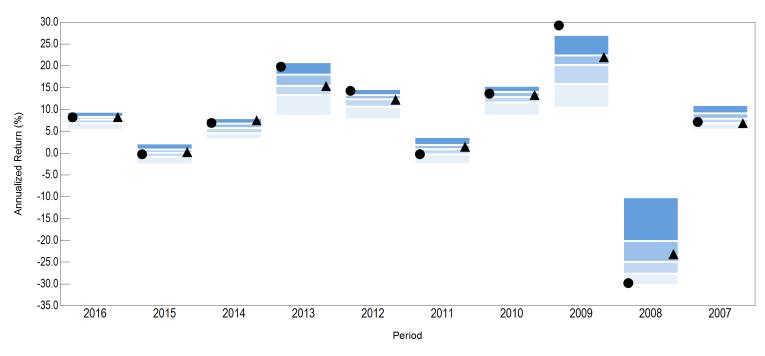


5th Percentile
25th Percentile
Median
75th Percentile
95th Percentile
of Portfolios

Total FundPolicy Index

Return (Ran	k)												
3.8		9.2		15.4		6.6		10.3		10.7		6.5	
3.3		8.1		13.3		5.9		9.5		10.0		5.8	
2.9		7.5		12.3		5.3		8.7		9.2		5.4	
2.6		6.8		10.9		4.5		7.9		8.3		4.8	
1.9		5.4		8.5		3.3		6.5		7.0		3.8	
330		329		326		296		274		245		223	
3.4 2.8	(19) (57)	7.7 6.8	(40) (74)	14.7 11.3	(10) (68)	5.7 5.6	(32) (36)	9.9 8.8	(13) (49)	10.3 9.5	(16) (41)	5.8 5.8	(26) (27)
2.0	(37)	0.0	(74)	11.3	(00)	5.0	(30)	0.0	(49)	9.5	(41)	5.0	(21)

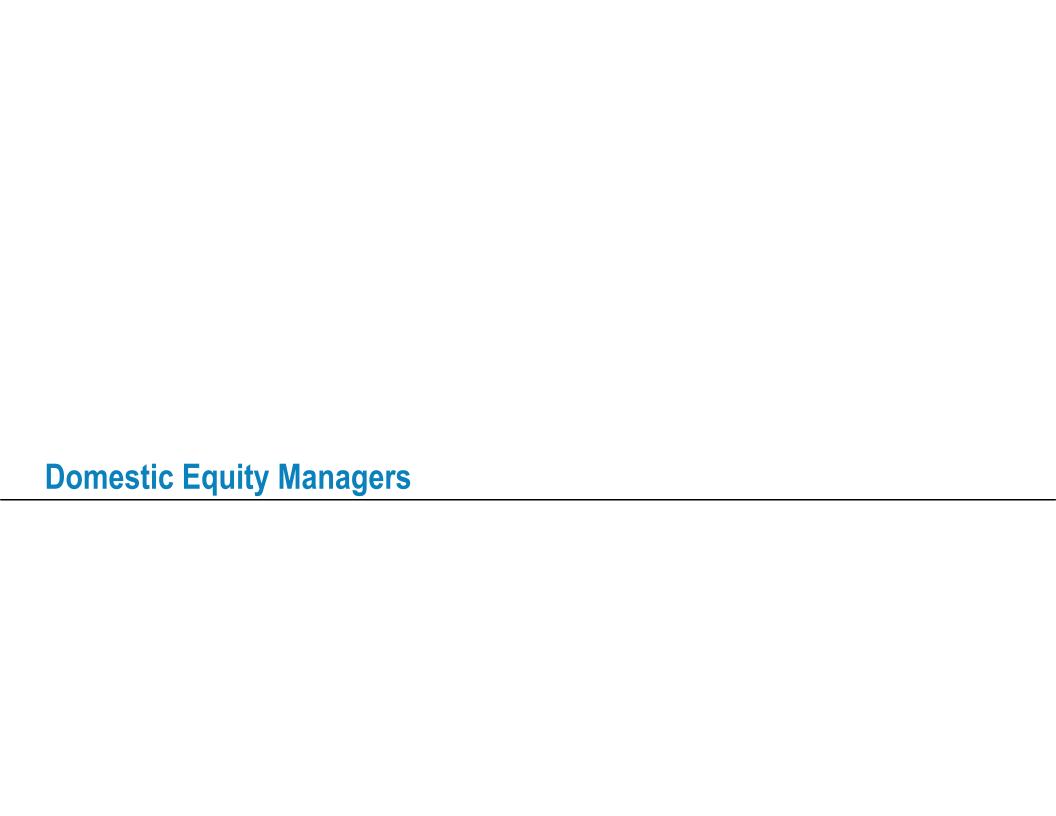




5th Percentile
25th Percentile
Median
75th Percentile
95th Percentile
of Portfolios

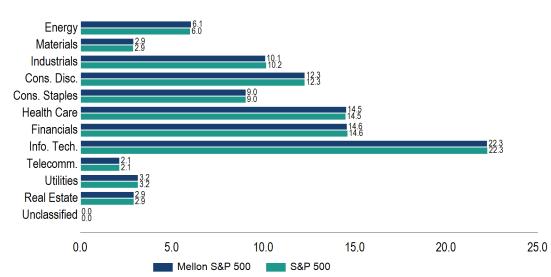
Total FundPolicy Index

Return	(Rank)																			
9.4		2.2		8.0		20.8		14.6		3.6		15.4		27.0		-10.1		11.0		
8.4		0.9		6.8		18.0		13.4		1.9		14.0		22.4		-20.1		9.1		
7.7		0.1		5.8		15.5		12.4		0.9		12.9		20.2		-24.9		7.9		
6.9		-0.9		4.6		13.3		10.7		-0.3		11.7		15.9		-27.6		6.9		
5.3		-2.6		3.2		8.5		7.8		-2.5		8.6		10.5		-30.3		5.4		
305		316		248		231		236		206		188		184		181		177		
8.2 8.2	(31) (29)	-0.3 0.2	(61) (46)	6.9 7.5	(23) (12)	19.8 15.4	(12) (52)	14.3 12.3	(10) (53)	-0.3 1.4	(75) (35)	13.6 13.3	(35) (42)	29.3 22.0	(1) (29)	-29.8 -23.2	(92) (37)	7.1 6.9	(68) (76)	



	Portfolio	S&P 500
Number of Holdings	500	505
Weighted Avg. Market Cap. (\$B)	155.57	154.74
Median Market Cap. (\$B)	20.54	20.58
Price To Earnings	25.18	24.69
Price To Book	5.36	4.59
Price To Sales	3.62	3.35
Return on Equity (%)	20.27	18.97
Yield (%)	2.01	2.00
Beta	1.00	1.00

Sector Allocation (%) vs S&P 500



Largest Holdings

Top Contributors

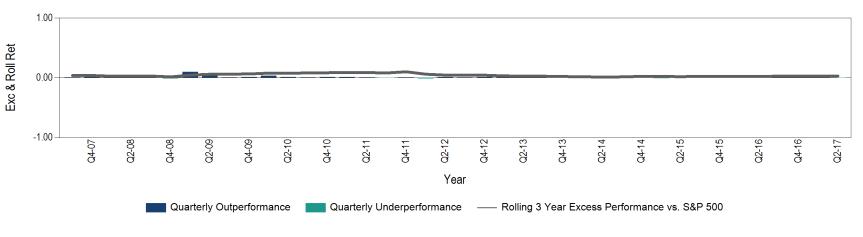
Bottom Contributors

=4.900	• •	p continuate								
	End Weight	Return		Avg Wgt	Return	Contributio	n	Avg Wgt	Return	Contribution
APPLE	3.62	0.66	ALPHABET 'C'	2.63	9.54	0.25	GENERAL ELECTRIC	1.22	-8.61	-0.11
ALPHABET 'C'	2.64	9.54	AMAZON.COM	1.81	9.19	0.17	AT&T	1.20	-8.10	-0.10
MICROSOFT	2.56	5.25	MICROSOFT	2.57	5.25	0.13	SCHLUMBERGER	0.50	-15.08	-0.08
AMAZON.COM	1.85	9.19	JOHNSON & JOHNSON	1.66	6.91	0.11	INTERNATIONAL	0.68	-10.80	-0.07
JOHNSON & JOHNSON	1.72	6.91	NVIDIA	0.34	32.85	0.11	BUS.MCHS.	0.00	-10.00	-0.07
FACEBOOK CLASS A	1.72	6.29	UNITEDHEALTH GROUP	0.80	13.52	0.11	VERIZON	0.94	-7.30	-0.07
EXXON MOBIL	1.65	-0.64	FACEBOOK CLASS A	1.70	6.29	0.11	COMMUNICATIONS	2.24		
JP MORGAN CHASE & CO.	1.56	4.65	MCDONALDS	0.56	18.90	0.11	CISCO SYSTEMS	0.81	-6.59	-0.05
BERKSHIRE HATHAWAY 'B'	1.55	1.61	CITIGROUP	0.81	12.10	0.10	WALT DISNEY	0.80	-6.30	-0.05
WELLS FARGO & CO	1.20	0.24	ORACLE	0.66	12.88	0.09	INTEL	0.83	-5.77	-0.05
WELLS I ANGO & CO	1.20	0.24	ONAOLL	0.00	12.00	0.03	ANADARKO PETROLEUM	0.16	-26.80	-0.04
							CONOCOPHILLIPS	0.29	-11.36	-0.03

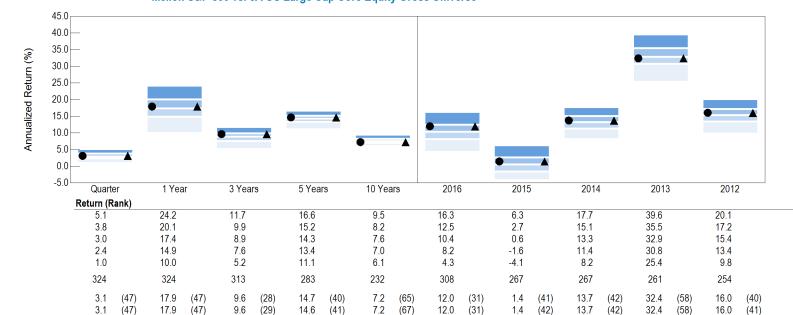


Manager Performance Comparisons (Gross of Fees)

Rolling Annualized Excess Performance



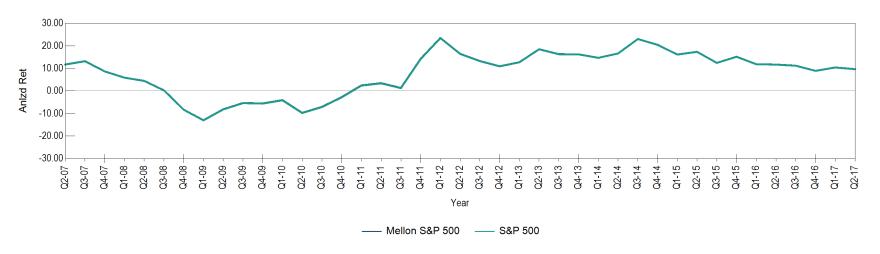
Mellon S&P 500 vs. eA US Large Cap Core Equity Gross Universe



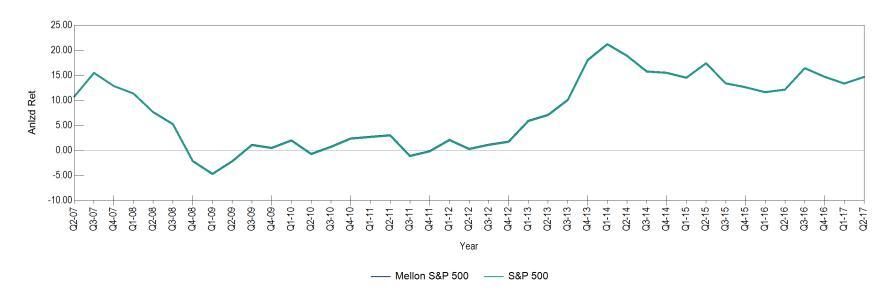
5th Percentile 25th Percentile Median 75th Percentile 95th Percentile # of Portfolios Mellon S&P 500

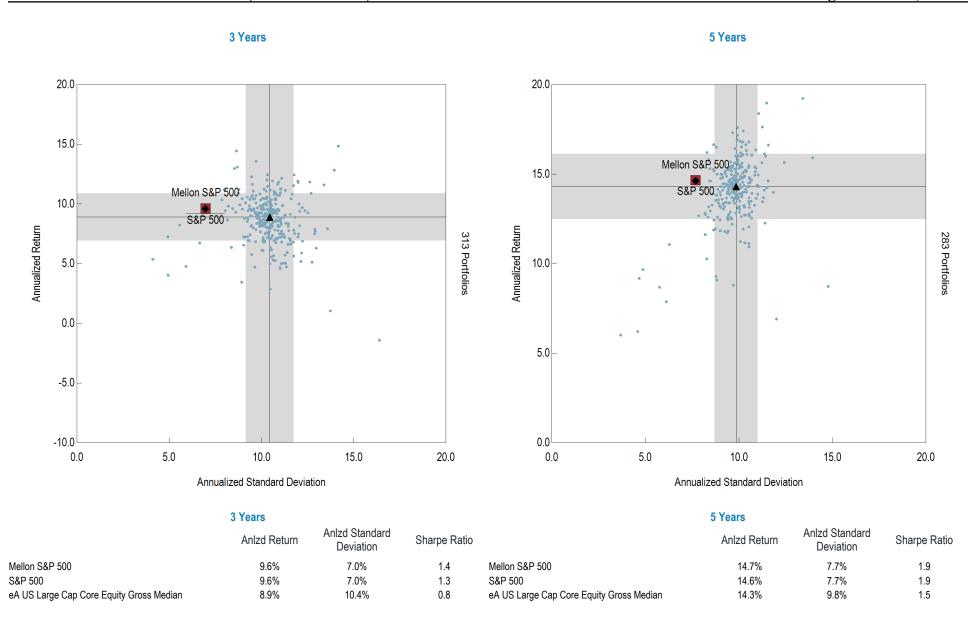
Mellon S&P 500 S&P 500

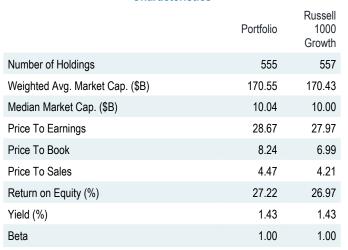
Rolling 3 Year Annualized Return (%)



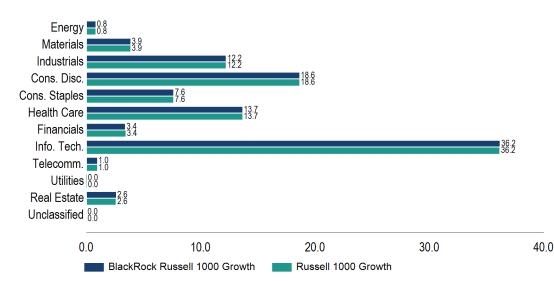
Rolling 5 Year Annualized Return (%)







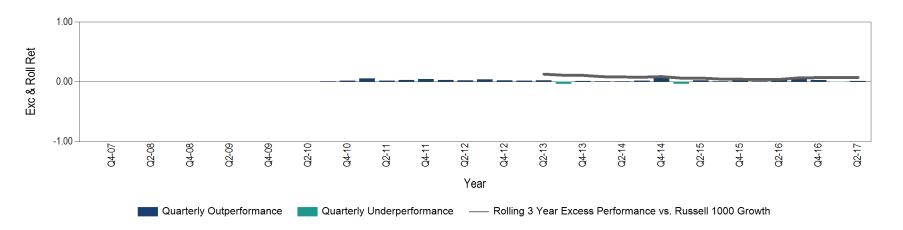
Sector Allocation (%) vs Russell 1000 Growth



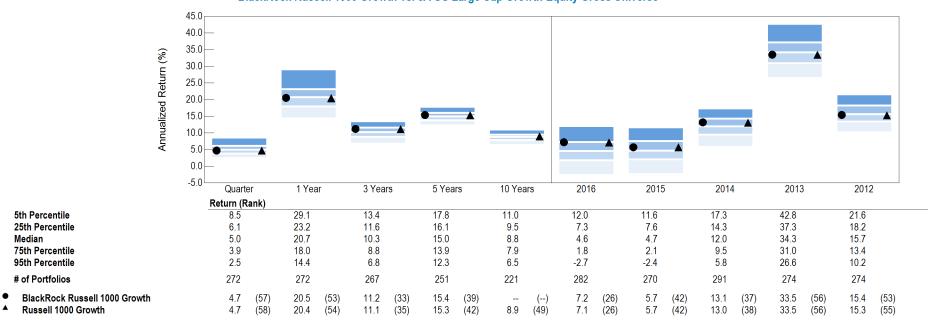
Largest Holdings

Bottom Contributors Top Contributors End Weight Contribution Return Avg Wgt Return Avg Wgt Return Contribution APPLE 6.62 0.66 AMAZON.COM 3.13 0.29 WALT DISNEY 1.57 -0.10 9.19 -6.30 **MICROSOFT** 4.56 5.25 **MICROSOFT** 4.43 0.23 INTERNATIONAL 5.25 0.84 -10.80-0.09 BUS.MCHS. 9.66 0.22 AMAZON.COM 3.39 9.19 ALPHABET 'A' 2.32 **VERIZON** FACEBOOK CLASS A 3.11 6.29 ALPHABET 'C' 2.29 9.54 0.22 0.83 -7.30-0.06 COMMUNICATIONS ALPHABET 'A' 2.44 9.66 **MCDONALDS** 1.00 18.90 0.19 **KROGER** 0.24 -20.61 -0.05 2.42 9.54 UNITEDHEALTH GROUP 13.52 0.19 ALPHABET 'C' 1.39 O REILLY AUTOMOTIVE 0.21 -18.94 -0.04 0.18 HOME DEPOT 1.62 5.08 **FACEBOOK CLASS A** 2.85 6.29 0.44 TJX -8.38 -0.04 UNITEDHEALTH GROUP 1.57 13.52 **NVIDIA** 0.52 32.85 0.17 **GENERAL ELECTRIC** 0.42 -8.61 -0.04 VISA 'A' 1.53 **BOFING** 0.94 0.12 5.71 12.68 AUTOZONE 0.17 -21.10-0.04 **PAYPAL HOLDINGS** COMCAST 'A' 1.49 4.39 0.46 24.76 0.11 LOWE'S COMPANIES 0.63 -5.30 -0.03 VIACOM 'B' 0.11 -27.59-0.03

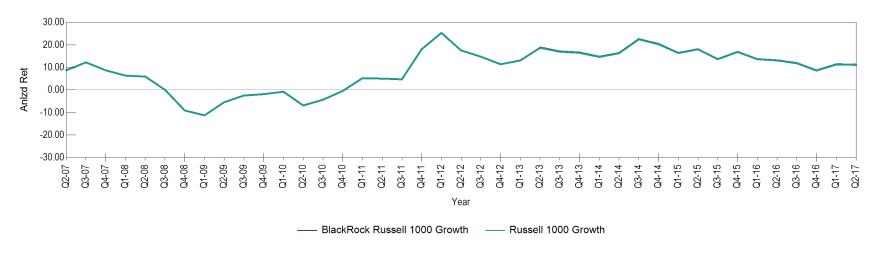




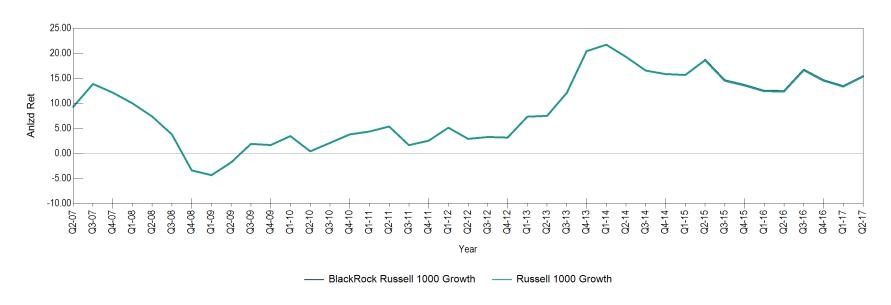
BlackRock Russell 1000 Growth vs. eA US Large Cap Growth Equity Gross Universe

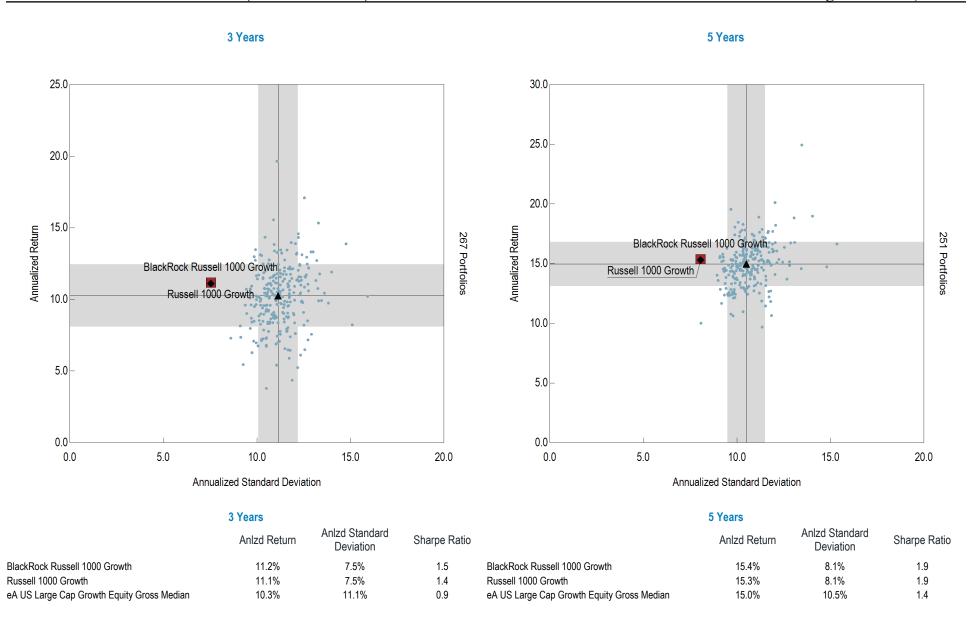


Rolling 3 Year Annualized Return (%)



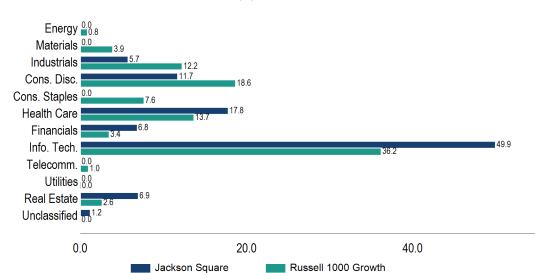
Rolling 5 Year Annualized Return (%)





	Portfolio	Russell 1000 Growth
Number of Holdings	32	557
Weighted Avg. Market Cap. (\$B)	114.95	170.43
Median Market Cap. (\$B)	37.80	10.00
Price To Earnings	35.42	27.97
Price To Book	6.93	6.99
Price To Sales	6.10	4.21
Return on Equity (%)	20.31	26.97
Yield (%)	0.78	1.43
Beta	1.32	1.00

Sector Allocation (%) vs Russell 1000 Growth



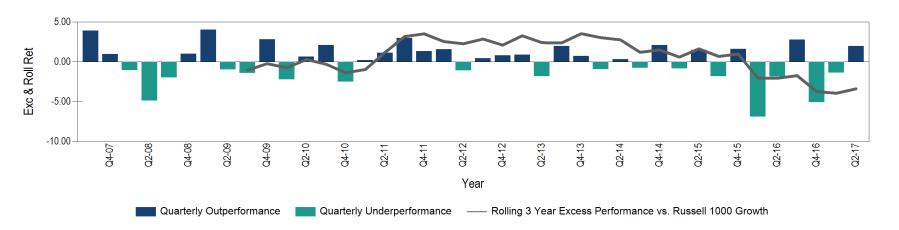
Largest Holdings

Top Contributors

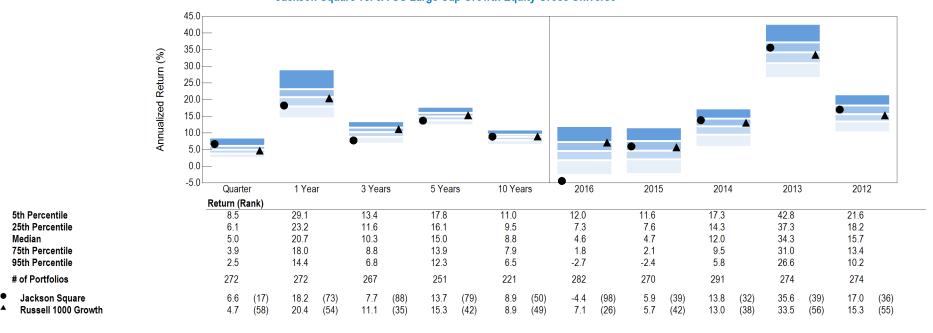
Bottom Contributors

	End Weight	Return		Avg Wgt	Return	Contribution	1	Avg Wgt	Return	Contribution
PAYPAL HOLDINGS	6.53	24.76	PAYPAL HOLDINGS	6.01	24.76	1.49	LIBERTY GLOBAL SR.C	2.49	-11.02	-0.27
MICROSOFT	5.91	5.25	LIBERTY INTACT.QVC	3.84	22.58	0.87	TRIPADVISOR 'A'	2.38	-11.49	-0.27
VISA 'A'	5.68	5.71	GROUP 'A'	J.U T	22.50	0.07	SYMANTEC	3.23	-7.69	-0.25
CELGENE	5.60	4.37	ELECTRONIC ARTS	3.75	18.10	0.68	NIELSEN	2.18	-5.59	-0.12
MASTERCARD	4.64	8.20	ALPHABET 'A'	4.08	9.66	0.39	LIBERTY GLOBAL CL.A	0.65	-10.45	-0.07
CROWN CASTLE INTL.	4.45	7.06	INTERCONTINENTAL EX.	3.66	10.45	0.38	QUALCOMM	1.32	-2.74	-0.04
EBAY	4.29	4.02	MASTERCARD	4.65	8.20	0.38	WALGREENS BOOTS	0.43	-5.29	-0.02
LIBERTY INTACT.QVC GROUP 'A'	4.22	22.58	FEDEX	3.23	11.63	0.38	ALLIANCE	0.43	-5.29	-0.02
ALPHABET 'A'	3.98	9.66	QUINTILES TRNAT.HDG.	3.28	11.14	0.36	ASML HLDG.ADR 1:1	1.52	-0.90	-0.01
INTERCONTINENTAL EX.	3.87	10.45	VISA 'A'	5.78	5.71	0.33	ALLERGAN	2.89	2.06	0.06
			MICROSOFT	6.17	5.25	0.32	DOLLAR GENERAL	1.86	3.77	0.07

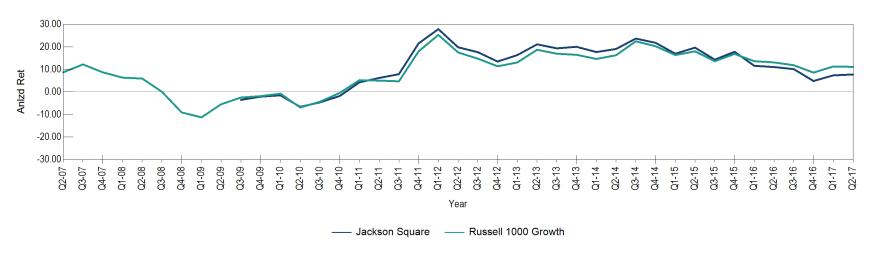




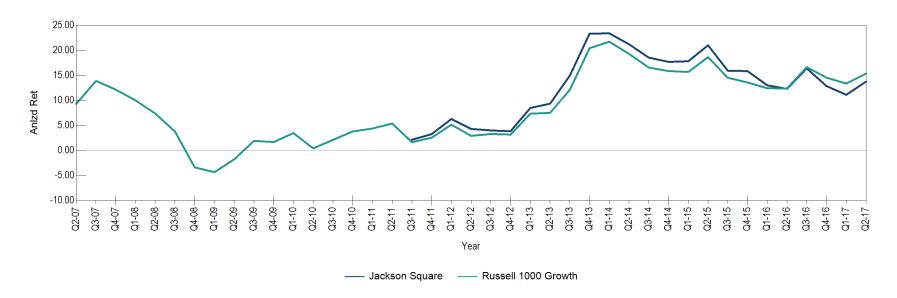
Jackson Square vs. eA US Large Cap Growth Equity Gross Universe

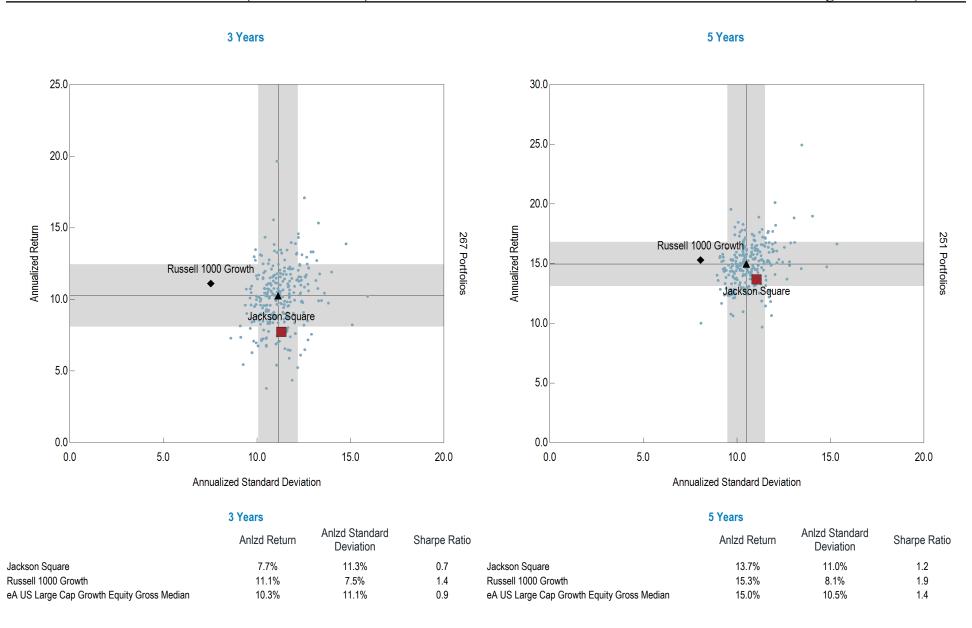


Rolling 3 Year Annualized Return (%)



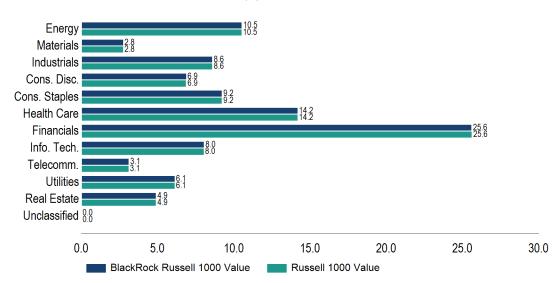
Rolling 5 Year Annualized Return (%)





Number of Holdings 716 719 Weighted Avg. Market Cap. (\$B) 108.84 108.85 Median Market Cap. (\$B) 8.54 8.46 Price To Earnings 22.36 20.93 Price To Book 2.33 2.56 Price To Sales 2.89 2.85 Return on Equity (%) 13.27 12.04 Yield (%) 2.45 2.44 Beta 1.00 1.00		Portfolio	Russell 1000 Value
Median Market Cap. (\$B) 8.54 8.46 Price To Earnings 22.36 20.93 Price To Book 2.33 2.56 Price To Sales 2.89 2.85 Return on Equity (%) 13.27 12.04 Yield (%) 2.45 2.44	Number of Holdings	716	719
Price To Earnings 22.36 20.93 Price To Book 2.33 2.56 Price To Sales 2.89 2.85 Return on Equity (%) 13.27 12.04 Yield (%) 2.45 2.44	Weighted Avg. Market Cap. (\$B)	108.84	108.85
Price To Book 2.33 2.56 Price To Sales 2.89 2.85 Return on Equity (%) 13.27 12.04 Yield (%) 2.45 2.44	Median Market Cap. (\$B)	8.54	8.46
Price To Sales 2.89 2.85 Return on Equity (%) 13.27 12.04 Yield (%) 2.45 2.44	Price To Earnings	22.36	20.93
Return on Equity (%) 13.27 12.04 Yield (%) 2.45 2.44	Price To Book	2.33	2.56
Yield (%) 2.45 2.44	Price To Sales	2.89	2.85
	Return on Equity (%)	13.27	12.04
Beta 1.00 1.00	Yield (%)	2.45	2.44
	Beta	1.00	1.00

Sector Allocation (%) vs Russell 1000 Value



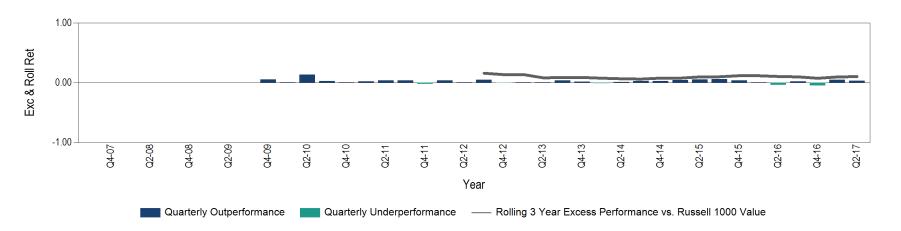
Largest Holdings

Top Contributors

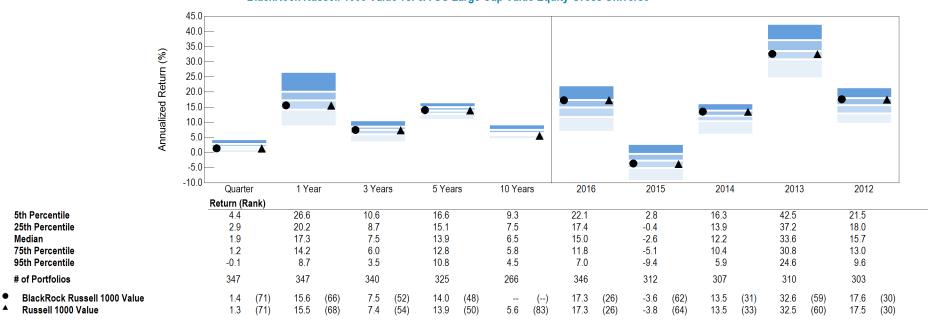
Bottom Contributors

		End Weight	Return		Avg Wgt	Return	Contribution	n	Avg Wgt	Return	Contribution
EXXON MO	BIL	2.89	-0.64	CITIGROUP	1.48	12.10	0.18	AT&T	2.20	-8.10	-0.18
BERKSHIRE	E HATHAWAY 'B'	2.75	1.61	JOHNSON & JOHNSON	2.55	6.91	0.18	GENERAL ELECTRIC	1.80	-8.61	-0.16
JP MORGA	N CHASE & CO.	2.73	4.65	ORACLE	1.07	12.88	0.14	SCHLUMBERGER	0.91	-15.08	-0.14
JOHNSON 8	& JOHNSON	2.55	6.91	JP MORGAN CHASE &	2.79	4.65	0.13	CISCO SYSTEMS	1.49	-6.59	-0.10
WELLS FAF	RGO & CO	2.10	0.24	CO.		4.00	0.10	INTEL	1.39	-5.77	-0.08
BANK OF A	MERICA	2.04	3.18	MEDTRONIC	1.04	10.17	0.11	ANADARKO PETROLEUM	0.28	-26.80	-0.08
AT&T		1.96	-8.10	CATERPILLAR	0.50	16.79	0.08	VERIZON	0.86	-7.30	-0.06
PROCTER 8	& GAMBLE	1.79	-2.26	UNITED TECHNOLOGIES	0.81	9.42	0.08	COMMUNICATIONS	0.00	-1.50	-0.00
PFIZER		1.68	-0.86	CSX	0.43	17.64	0.08	CONOCOPHILLIPS	0.53	-11.36	-0.06
CHEVRON		1.66	-1.83	PHILIP MORRIS INTL.	1.42	4.93	0.07	HALLIBURTON	0.36	-12.86	-0.05
				BANK OF AMERICA	2.12	3.18	0.07	PROCTER & GAMBLE	2.02	-2.26	-0.05

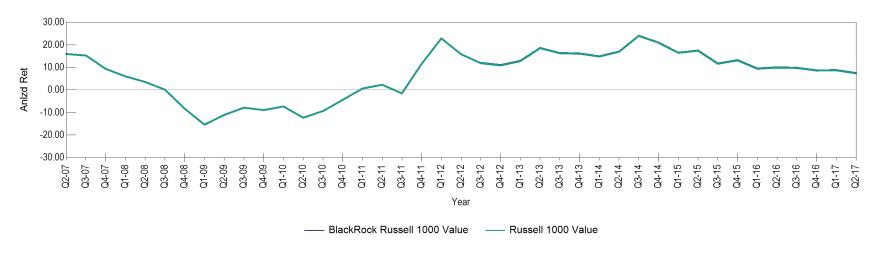




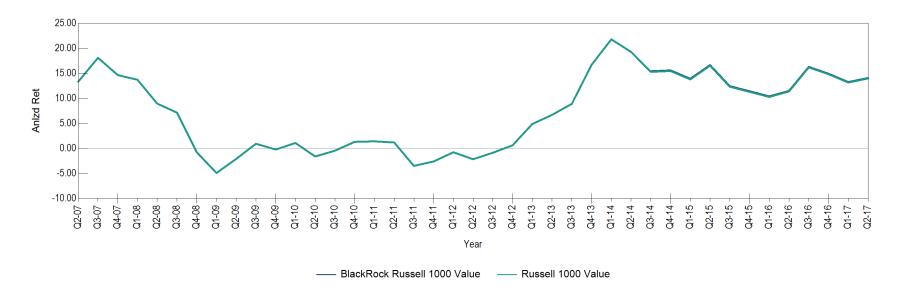
BlackRock Russell 1000 Value vs. eA US Large Cap Value Equity Gross Universe

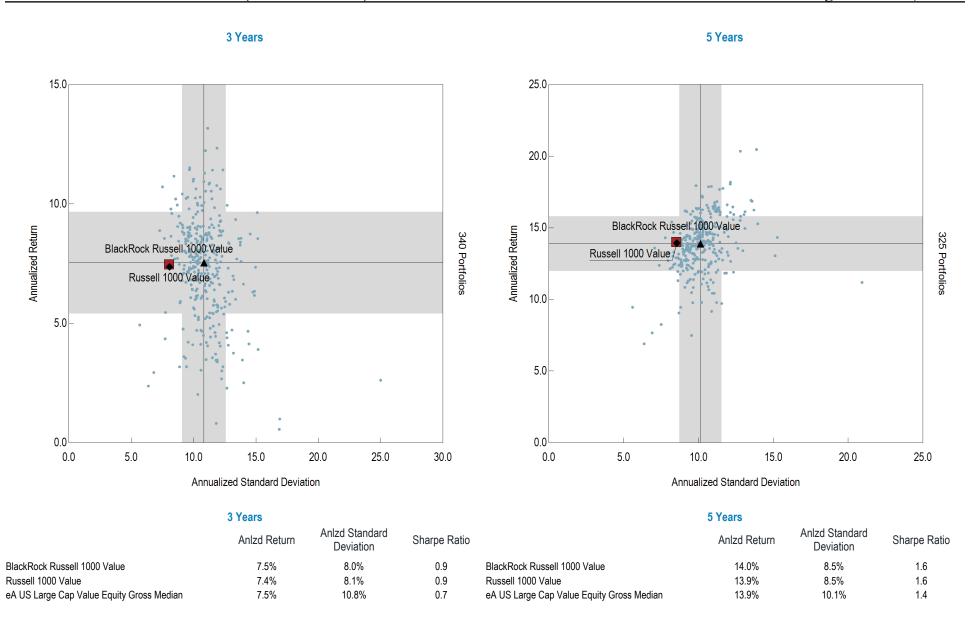


Rolling 3 Year Annualized Return (%)



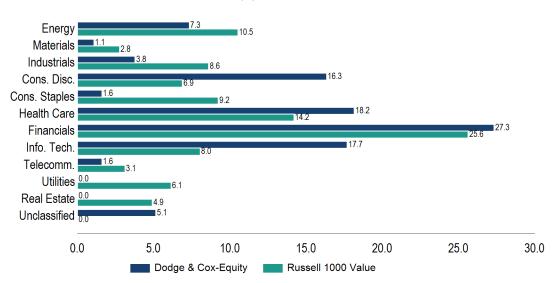
Rolling 5 Year Annualized Return (%)





	Portfolio	Russell 1000 Value
Number of Holdings	66	719
Weighted Avg. Market Cap. (\$B)	116.45	108.85
Median Market Cap. (\$B)	39.11	8.46
Price To Earnings	19.58	20.93
Price To Book	2.98	2.56
Price To Sales	2.87	2.85
Return on Equity (%)	16.00	12.04
Yield (%)	1.73	2.44
Beta	1.09	1.00

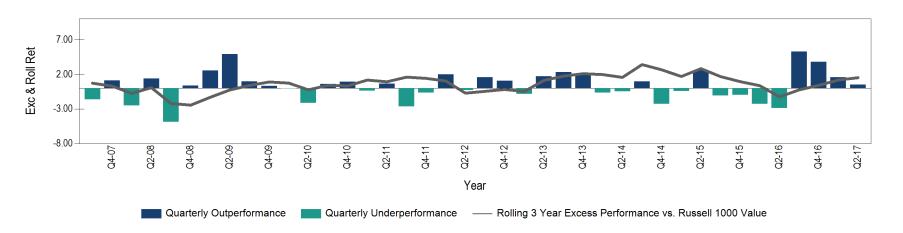
Sector Allocation (%) vs Russell 1000 Value



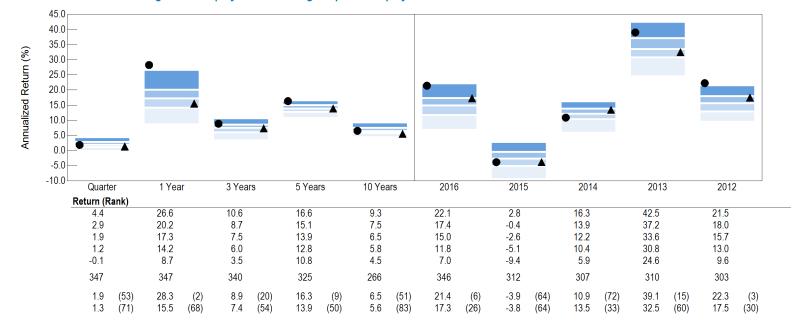
Largest Holdings Top Contributors Bottom Contributors

	End Weight	Return		Avg Wgt	Return	Contribution	ı	Avg Wgt	Return	Contribution
CHARLES SCHWAB	3.83	5.48	NOVARTIS 'B' SPN.ADR	2.89	12.39	0.36	ANADARKO PETROLEUM	1.21	-26.80	-0.32
BANK OF AMERICA	3.75	3.18	1:1	2.00	12.00	0.50	SCHLUMBERGER	1.94	-15.08	-0.29
WELLS FARGO & CO	3.62	0.24	SANOFI ADR 2:1	3.17	9.47	0.30	HEWLETT PACKARD	2.92	-6.20	-0.18
CAPITAL ONE FINL.	3.40	-4.19	CIGNA	1.86	14.27	0.27	ENTER.	2.32	-0.20	-0.10
CHARTER COMMS.CL.A	3.26	2.91	FEDEX	2.09	11.63	0.24	NATIONAL OILWELL	0.97	-17.71	-0.17
NOVARTIS 'B' SPN.ADR 1:1	3.03	12.39	ALNYLAM	0.41	55.63	0.23	VARCO	0.40	4.40	0.44
TIME WARNER	3.01	3.18	PHARMACEUTICALS				CAPITAL ONE FINL.	3.40	-4.19	-0.14
COMCAST 'A'	2.99	4.39	ALPHABET 'C'	2.34	9.54	0.22	CISCO SYSTEMS	1.99	-6.59	-0.13
SANOFI ADR 2:1	2.97	9.47	UNITEDHEALTH GROUP	1.56	13.52	0.21	BAKER HUGHES	1.40	-8.61	-0.12
MICROSOFT	2.75	5.25	CHARLES SCHWAB	3.57	5.48	0.20	WEATHERFORD INTL.	0.22	-41.80	-0.09
MICROSOFI	2.13	3.23	BANK OF NEW YORK	1.98	8.46	0.17	GOLDMAN SACHS GP.	2.78	-3.07	-0.09
			MELLON	1.50	0.40	0.17	APACHE	1.32	-6.26	-0.08
			ASTRAZENECA SPN.ADR.2:1	1.73	9.47	0.16				



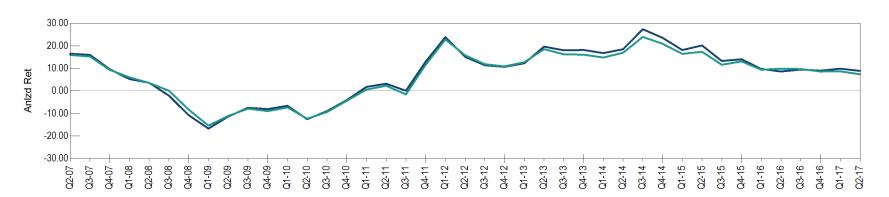


Dodge & Cox-Equity vs. eA US Large Cap Value Equity Gross Universe



5th Percentile 25th Percentile Median 75th Percentile 95th Percentile # of Portfolios

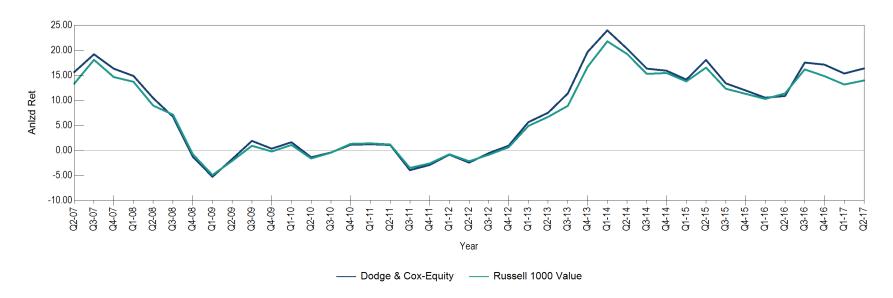
Dodge & Cox-Equity
Russell 1000 Value

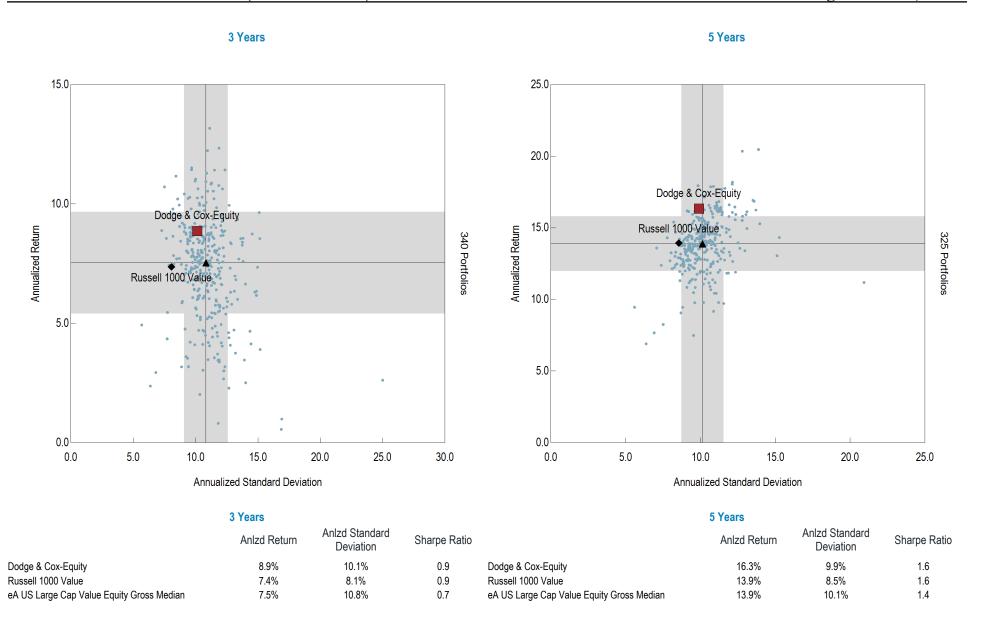


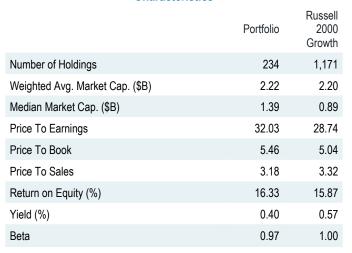
— Dodge & Cox-Equity — Russell 1000 Value

Year

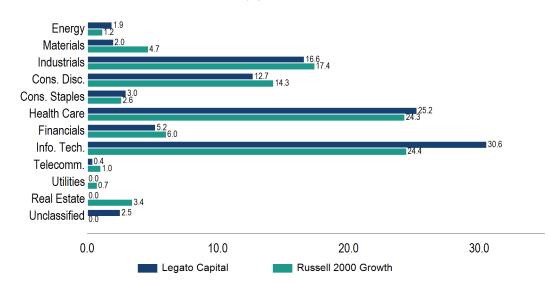
Rolling 5 Year Annualized Return (%)







Sector Allocation (%) vs Russell 2000 Growth



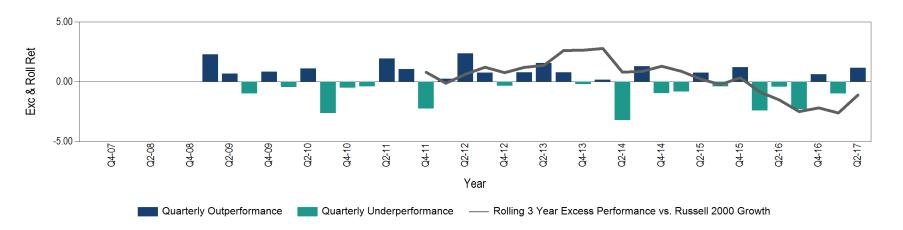
Largest Holdings

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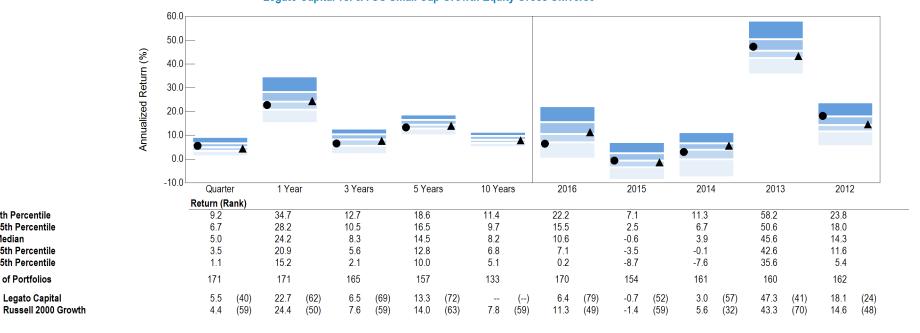
Bottom Contributors

	End Weight	Return		Avg Wgt	Return	Contributio	n	Avg Wgt	Return	Contribution
LIGAND PHARMS.'B'	2.47	14.70	STAMPS.COM	2.95	30.86	0.91	CARDTRONICS	1.11	-29.71	-0.33
STAMPS.COM	2.44	30.86	ALBANY	1.41	54.67	0.77	CHEESECAKE FACTORY	1.23	-20.29	-0.25
SUPERNUS PHARMACEUTICALS	1.57	37.70	MOLECULR.RESH.	1.41	J 4 .07	0.77	NEKTAR THERAPEUTICS	1.40	-16.70	-0.23
ISHARES RUSSELL 2000 GW.	1.54	4.40	SUPERNUS	1.63	37.70	0.62	SMART & FINAL STORES	0.73	-24.79	-0.18
DREW INDS.	1.46	3.17	PHARMACEUTICALS	2.00	44.70	0.45	BUFFALO WILD WINGS	1.03	-17.05	-0.18
CRITEO ADR 1:1	1.33	-1.88	LIGAND PHARMS.'B'	3.09	14.70	0.45	CALLON PTL.DEL.	0.78	-19.38	-0.15
POOL	1.32	-1.17	CEVA	1.32	28.03	0.37	SNYDERS LANCE	1.09	-13.74	-0.15
DAVE & BUSTER'S ENTM.	1.10	8.87	INC RESEARCH HOLDINGS CL.A	1.28	27.59	0.35	PROGENICS PHARMS.	0.53	-28.07	-0.15
ECHO GLOBAL LOGISTICS	1.05	-6.79	MERIT MEDICAL SYS.	0.84	32.01	0.27	ECHO GLOBAL LOGISTICS	1.66	-6.79	-0.11
TETRA TECH	1.01	12.24	IGI LABORATORIES	1.28	17.16	0.22	BANK OF THE OZARKS	1.12	-9.56	-0.11
			INNERWORKINGS	1.21	16.47	0.20	DANK OF THE OZAKKO	1.12	-5.50	-0.11
			TETRA TECH	1.60	12.24	0.20				





Legato Capital vs. eA US Small Cap Growth Equity Gross Universe





5th Percentile

25th Percentile

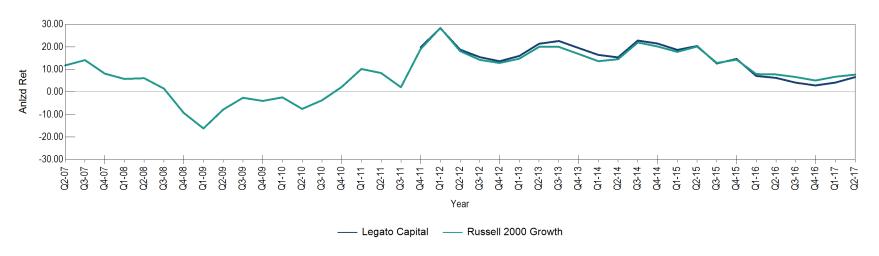
75th Percentile

95th Percentile

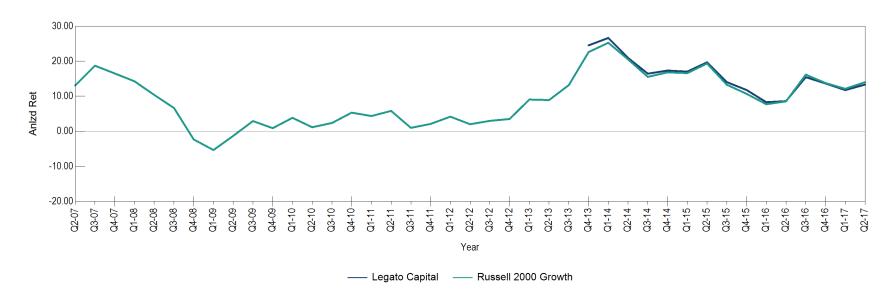
of Portfolios

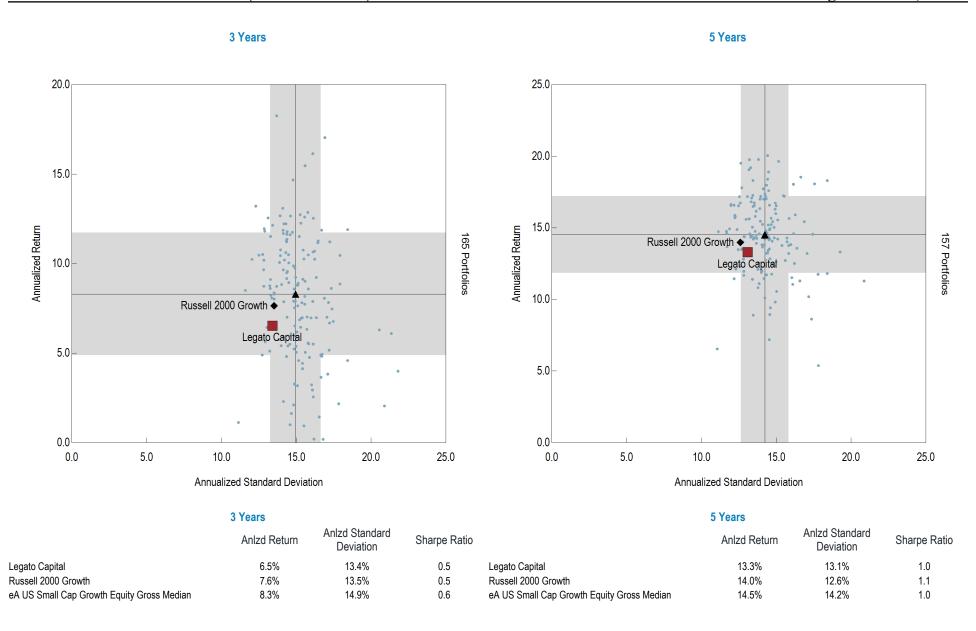
Median

Rolling 3 Year Annualized Return (%)



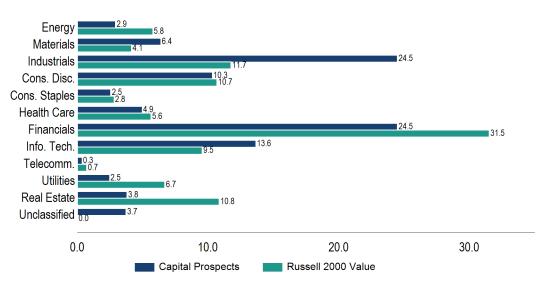
Rolling 5 Year Annualized Return (%)





	Portfolio	Russell 2000 Value
Number of Holdings	295	1,399
Weighted Avg. Market Cap. (\$B)	2.17	1.83
Median Market Cap. (\$B)	1.23	0.66
Price To Earnings	23.21	20.07
Price To Book	2.85	1.71
Price To Sales	2.29	2.72
Return on Equity (%)	13.09	7.40
Yield (%)	1.57	1.70
Beta	0.87	1.00

Sector Allocation (%) vs Russell 2000 Value



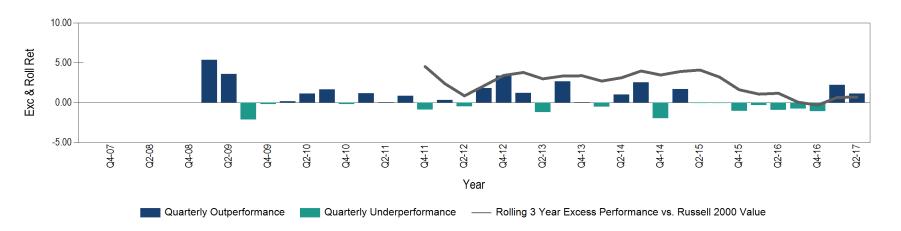
Largest Holdings

Top Contributors

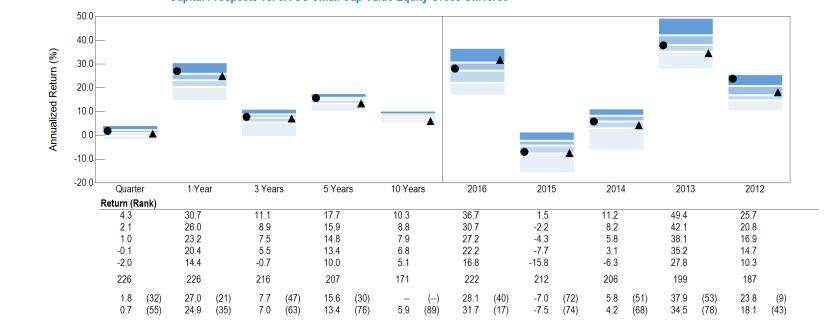
Bottom Contributors

•	End Weight	Return		Avg Wgt	Return	Contributio	n	Avg Wgt	Return	Contribution
ALLETE	1.38	6.68	CAI INTERNATIONAL	0.44	49.94	0.22	PCM	0.35	-33.16	-0.12
GORES HOLDINGS CL.A	1.36	1.45	MODINE	0.59	35.66	0.21	STEELCASE 'A'	0.67	-15.66	-0.10
LITTELFUSE	1.30	3.39	MANUFACTURING	0.00	33.00	0.21	TOWER INTERNATIONAL	0.60	-16.80	-0.10
HILLENBRAND	1.15	1.26	FREIGHTCAR AMERICA	0.52	39.50	0.21	CINEMARK HOLDINGS	0.81	-11.74	-0.10
MB FINANCIAL	1.14	3.33	CATALENT	0.65	23.94	0.16	RANGE RES.	0.44	-20.31	-0.09
ABM INDS.	0.94	-4.39	ALBANY	0.23	54.67	0.12	VERSO CL A ORD	0.41	-21.83	-0.09
ARTISAN PTNS.ASTMGMT.	0.94	13.62	MOLECULR.RESH.				TWIN DISC	0.41	-21.54	-0.09
AIR LEASE	0.93	-3.40	STERLING CONSTRUCTION	0.28	41.30	0.12	CRH MEDICAL	0.29	-30.28	-0.09
JOHN BEAN TECHNOLOGIES	0.93	11.56	ARTISAN				LAREDO PETROLEUM	0.31	-27.95	-0.09
AMERICAN EQ.INV.LF.HLDG.	0.85	11.21	PTNS.ASTMGMT.	0.85	13.62	0.12	OIL STS.INTL.	0.45	-18.10	-0.08
			ASURE SOFTWARE	0.27	42.12	0.12				
			POLYONE	0.81	14.05	0.11				
			MSA SAFETY	0.72	15.34	0.11				





Capital Prospects vs. eA US Small Cap Value Equity Gross Universe



5th Percentile

25th Percentile

75th Percentile

95th Percentile

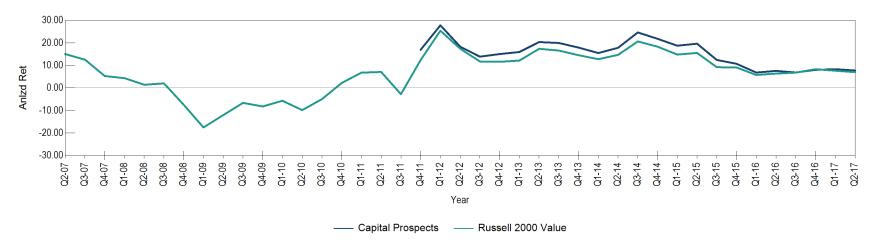
of Portfolios

Capital Prospects

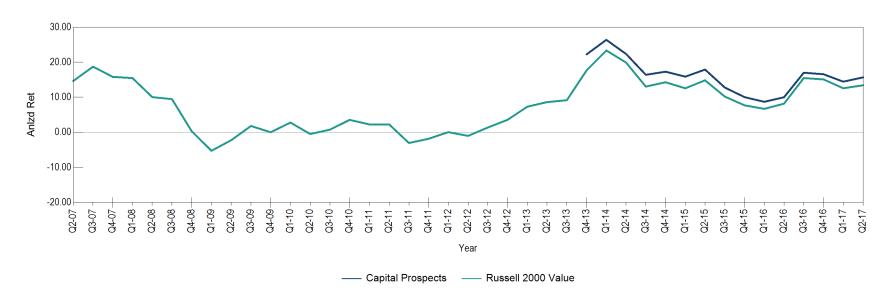
Russell 2000 Value

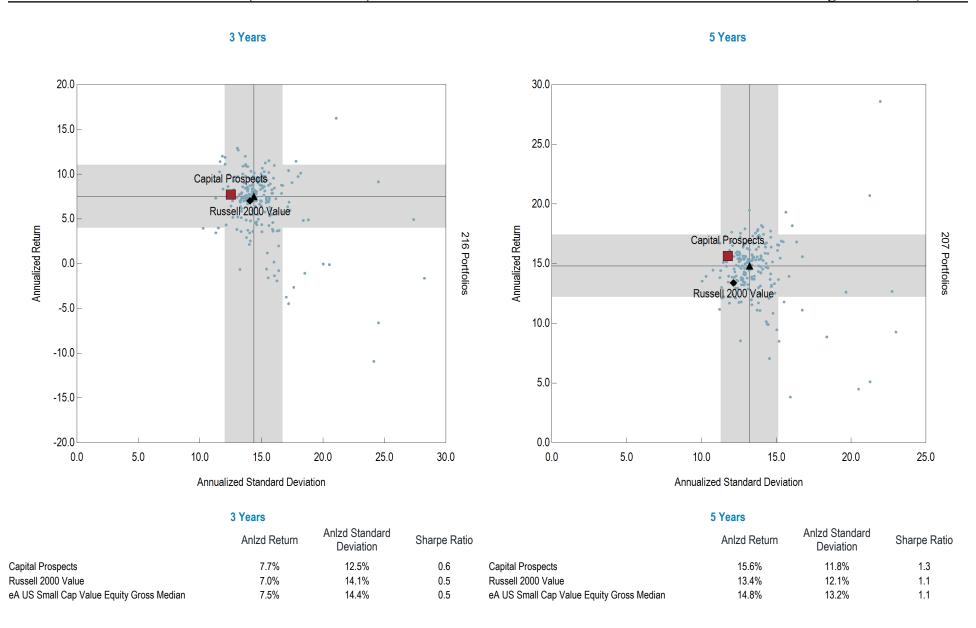
Median

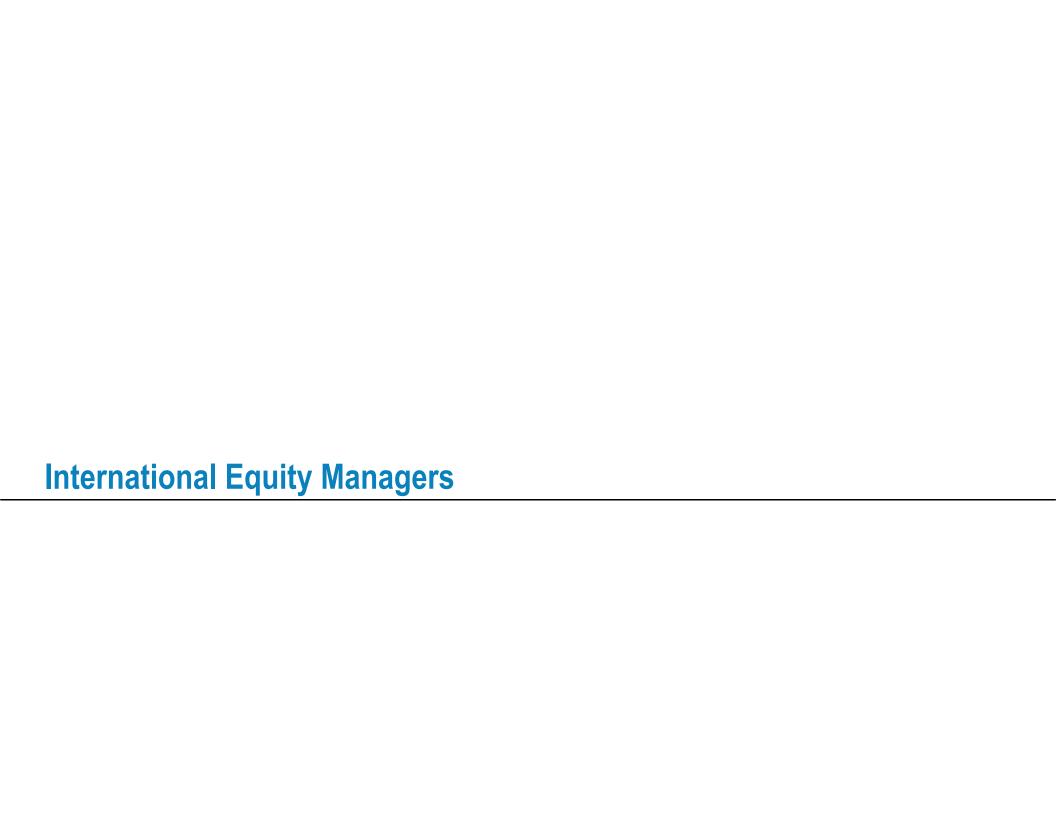
Rolling 3 Year Annualized Return (%)

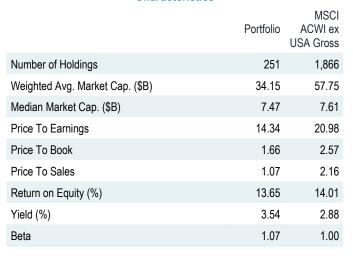


Rolling 5 Year Annualized Return (%)

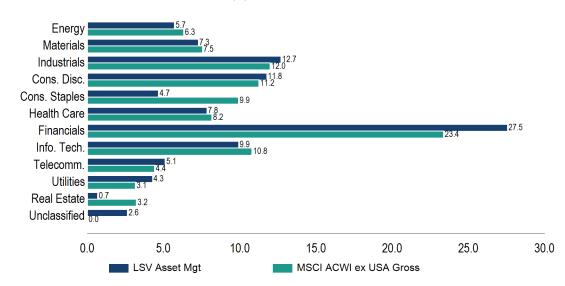








Sector Allocation (%) vs MSCI ACWI ex USA Gross



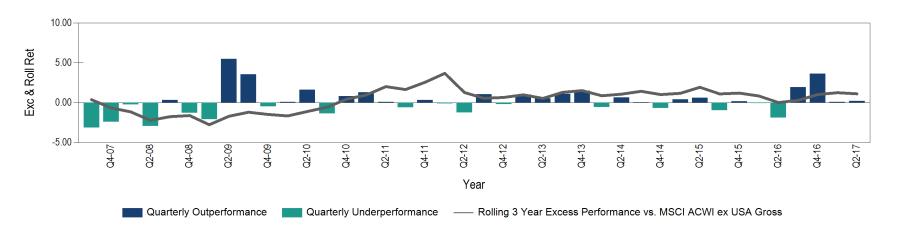
Largest Holdings

Top Contributors

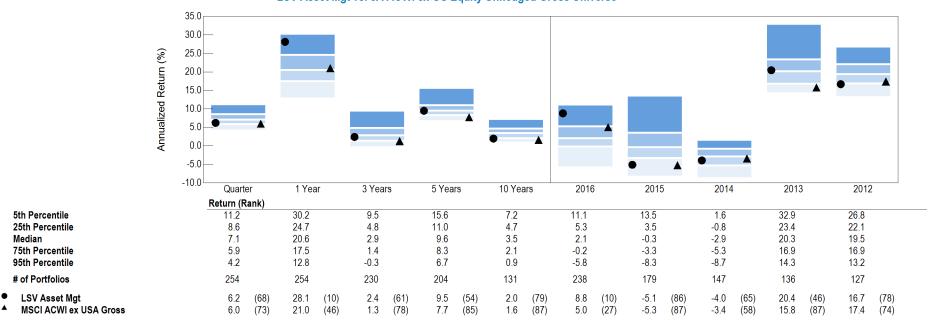
Bottom Contributors

_	End Weight	Return		Avg Wgt	Return	Contributio	n	Avg Wgt	Return	Contribution
SAMSUNG ELECTRONICS	2.16	12.78	SAMSUNG ELECTRONICS	2.09	12.78	0.27	JBS ON	0.28	-38.53	-0.11
SANOFI	1.76	9.00	BYD ELECTRONIC (INTL.)	0.61	43.33	0.27	FUFENG GROUP	0.28	-32.19	-0.09
NIPPON TELG. & TEL.	1.52	10.82	OMV	0.70	34.76	0.24	BANCO BRASIL SPN.ADR	0.36	-24.01	-0.09
BAE SYSTEMS	1.30	4.52	QANTAS AIRWAYS	0.40	47.85	0.19	1:1	0.50	-24.01	-0.03
ALLIANZ	1.27	11.16	DEUTSCHE LUFTHANSA	0.36	44.92	0.16	CIA PARANAENSE DE	0.35	-23.26	-0.08
MAGNA INTL.	1.17	8.15	SANOFI	1.80	9.00	0.16	ENERGIA COPEL PN			
ENEL	1.14	13.41	NIPPON TELG. & TEL.	1.50	10.82	0.16	MOBL.TELSMS.OJSC SPN.ADR 1:2	0.32	-24.03	-0.08
SWISS LIFE HOLDING	1.10	8.20	BAYER	1.01	14.59	0.15	TECK RESOURCES 'B'	0.29	-20.28	-0.06
KDDI	1.02	0.97	ALLIANZ	1.27	11.16	0.14	NORTHGATE	0.32	-16.31	-0.05
BAYER	1.02	14.59	AIR CHINA 'H'	0.46	29.52	0.14	KOREA ELECTRIC POWER	0.34	-14.15	-0.05
							FORTESCUE METALS GP.	0.29	-15.75	-0.05
							CHINA RAILWAY CON.'H'	0.48	-8.04	-0.04

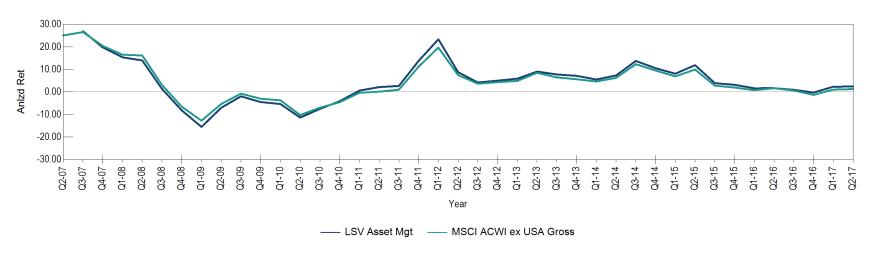




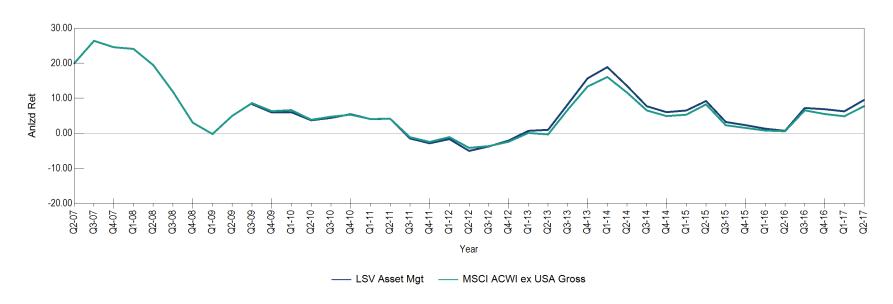
LSV Asset Mgt vs. eA ACWI ex-US Equity Unhedged Gross Universe

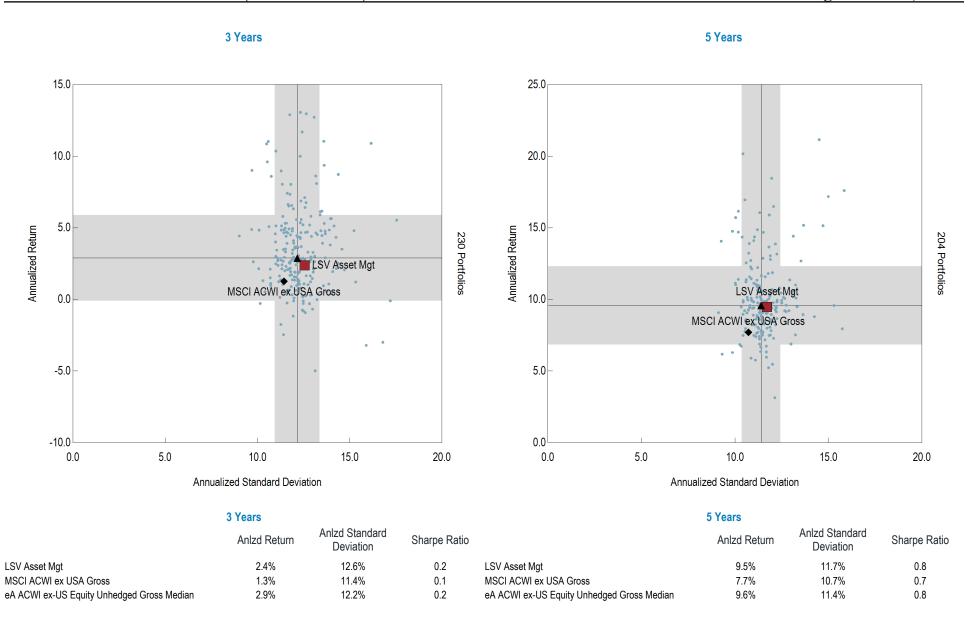


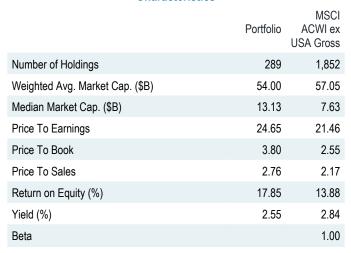
Rolling 3 Year Annualized Return (%)



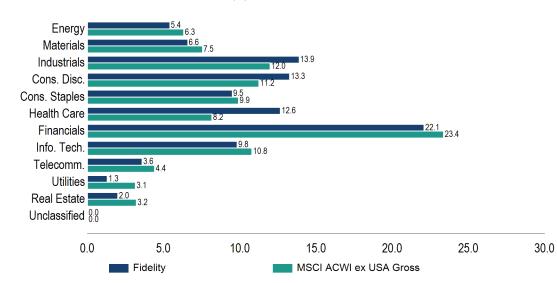
Rolling 5 Year Annualized Return (%)







Sector Allocation (%) vs MSCI ACWI ex USA Gross



Largest Holdings

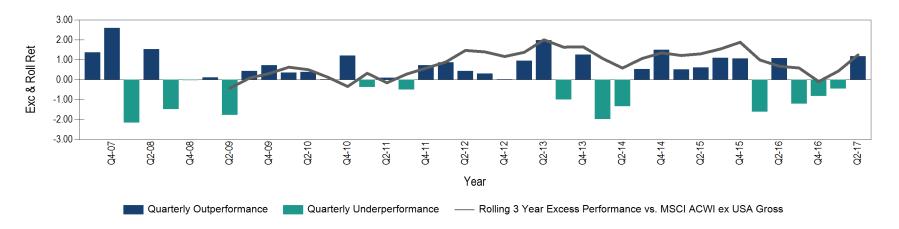
Top Contributors

Bottom Contributors

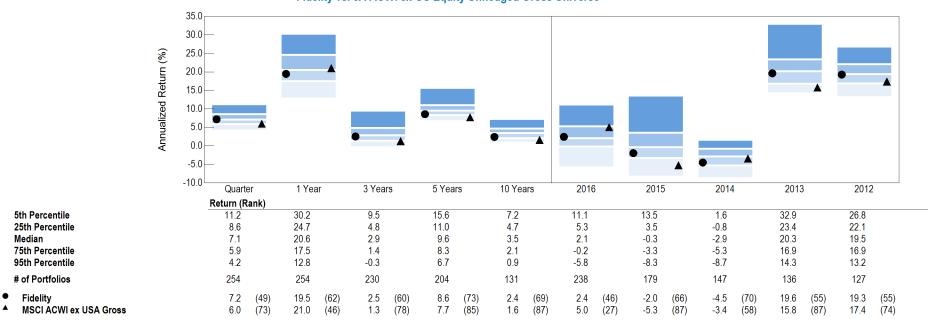
		End Weight	Return		Avg Wgt	Return	Contributio	n	Avg Wgt	Return	Contribution	
	NESTLE 'R'	1.87	16.95	NESTLE 'R'	1.73	16.95	0.29	HIKMA	0.26	-22.20	-0.06	
	SAP	1.47	7.87	PIRAMAL ENTERPRISES	0.51	47.63	0.24	PHARMACEUTICALS	0.20	22.20	0.00	
	ROCHE HOLDING	1.34	-0.22	NINTENDO	0.49	44.64	0.22	DENTSU	0.51	-11.09	-0.06	
	BRITISH AMERICAN TOBACCO	1.23	2.58	AIA GROUP	1.12	17.25	0.19	VALID SOLUCOES E SERVICOS ON	0.18	-30.41	-0.05	
	PHILIPS ELTN.KONINKLIJKE	1.19	12.79	PHILIPS	1.17	12.79	0.15	SHIRE	0.93	-5.55	-0.05	
	ROYAL DUTCH SHELL A	1.18	2.38	ELTN.KONINKLIJKE				÷····-				
	AIA GROUP	1.13	17.25	ING GROEP	0.89	16.75	0.15	DAIRY FARM INTL.HDG.	0.39	-13.22	-0.05	
	NASPERS	1.10	12.50	BAYER	1.02	14.59	0.15	CCL PRODUCTS (INDIA)	0.34	-14.42	-0.05	
	BAYER	1.07	14.59	GUARANTY TRUST BANK	0.40	35.97	0.15	BARCLAYS	0.72	-6.44	-0.05	
				NOVO NORDISK 'B'	0.60	24.16	0.14	WOOD GROUP (JOHN)	0.40	-10.49	-0.04	
	SAMSUNG ELECTRONICS	0.95	12.78					WESTPAC BANKING	0.42	-9.86	-0.04	
				KERING	0.42	32.59	0.14					
								NSK	0.33	-12.60	-0.04	



Rolling Annualized Excess Performance



Fidelity vs. eA ACWI ex-US Equity Unhedged Gross Universe

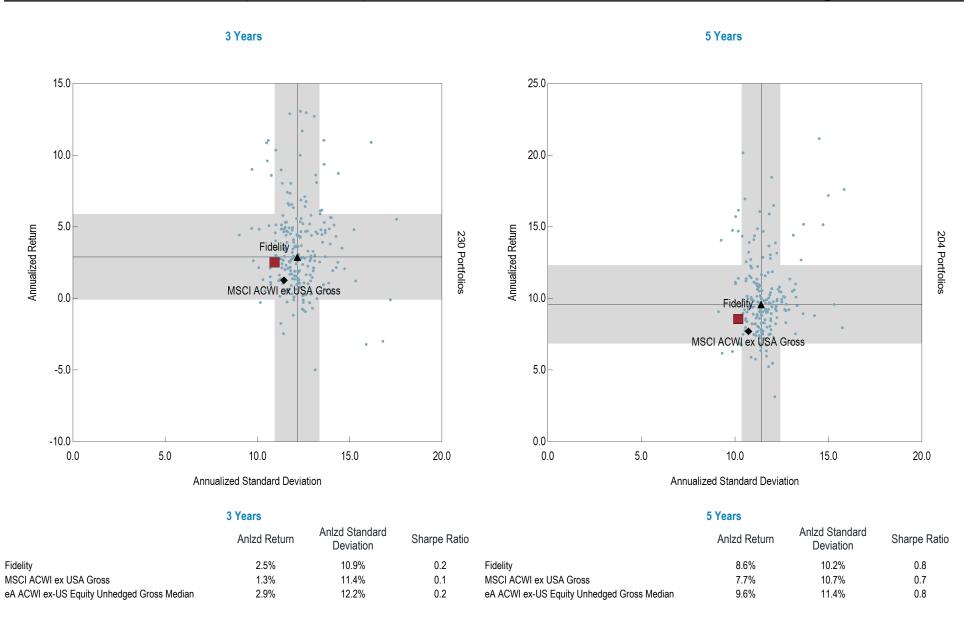


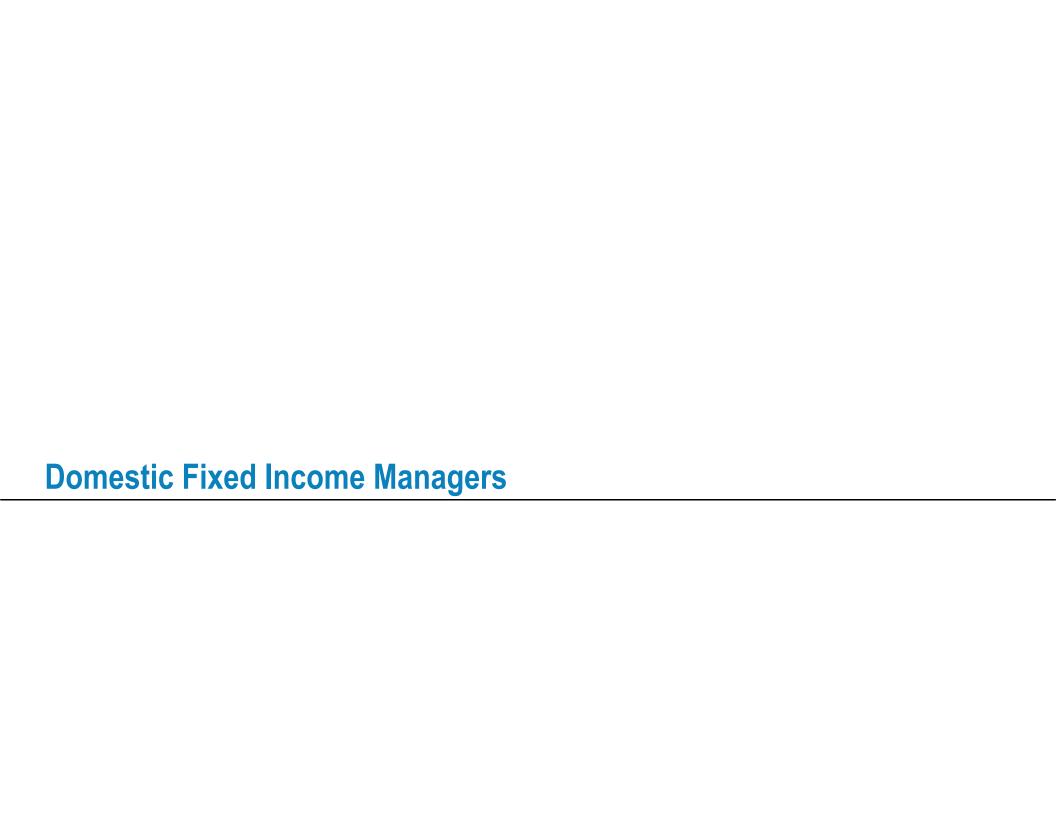
Rolling 3 Year Annualized Return (%)



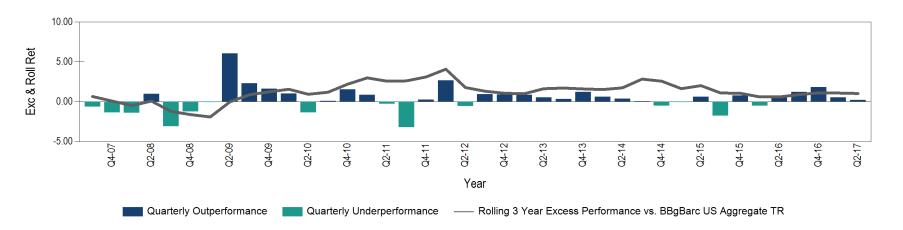
Rolling 5 Year Annualized Return (%)



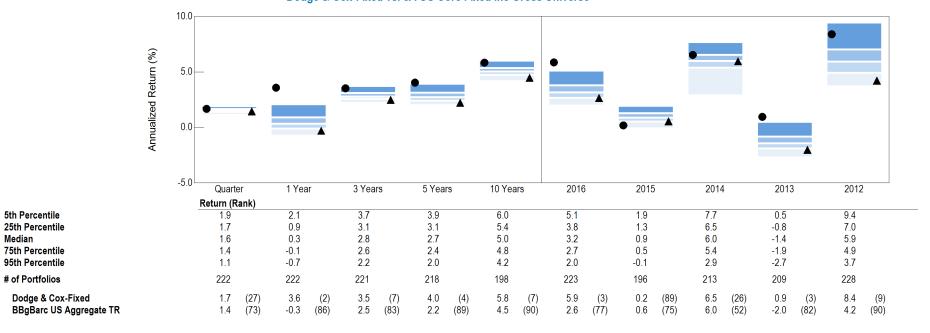




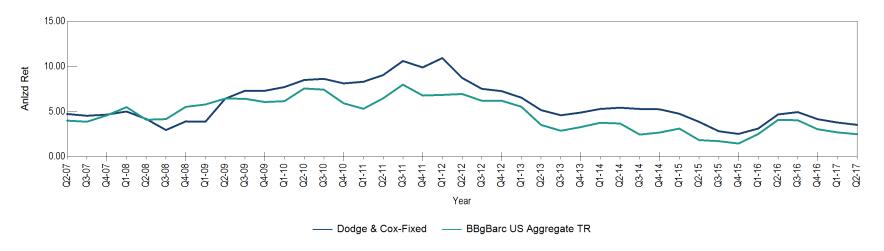
Rolling Annualized Excess Performance



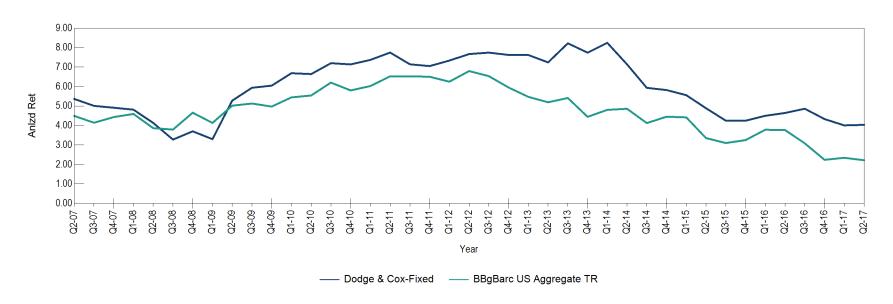
Dodge & Cox-Fixed vs. eA US Core Fixed Inc Gross Universe

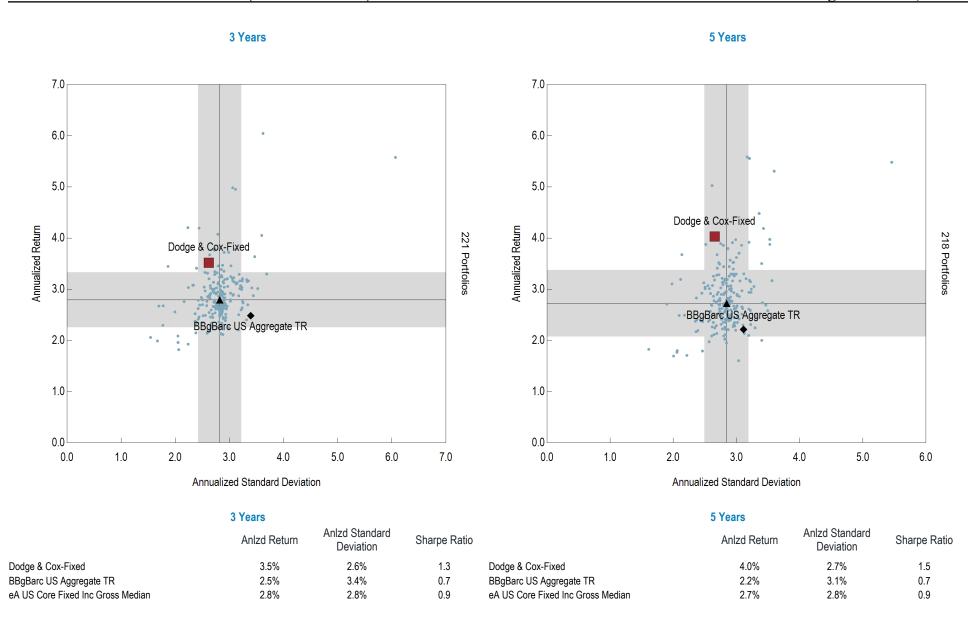


Rolling 3 Year Annualized Return (%)

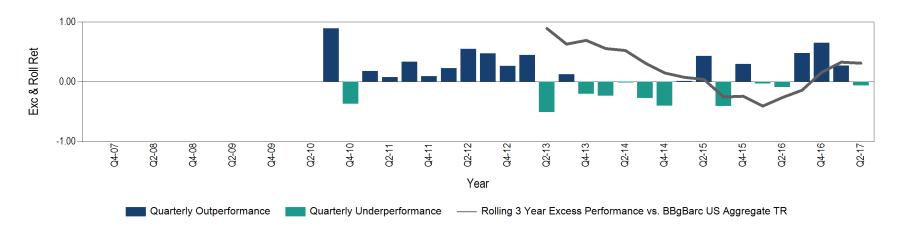


Rolling 5 Year Annualized Return (%)





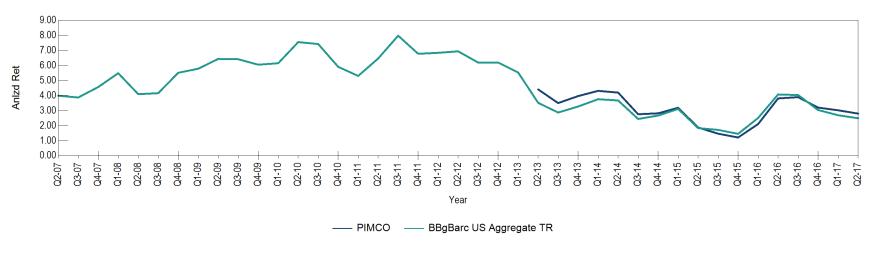
Rolling Annualized Excess Performance



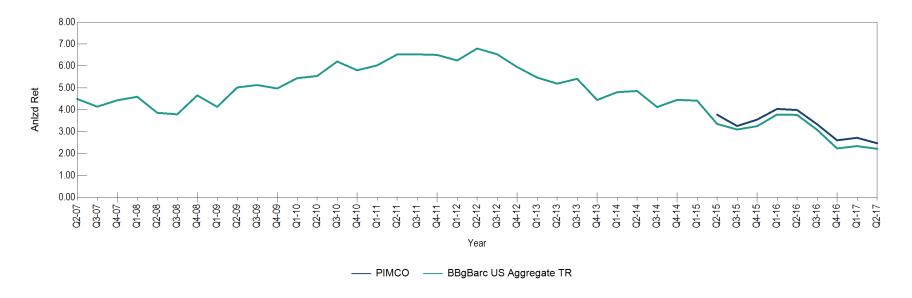
PIMCO vs. eA US Core Fixed Inc Gross Universe

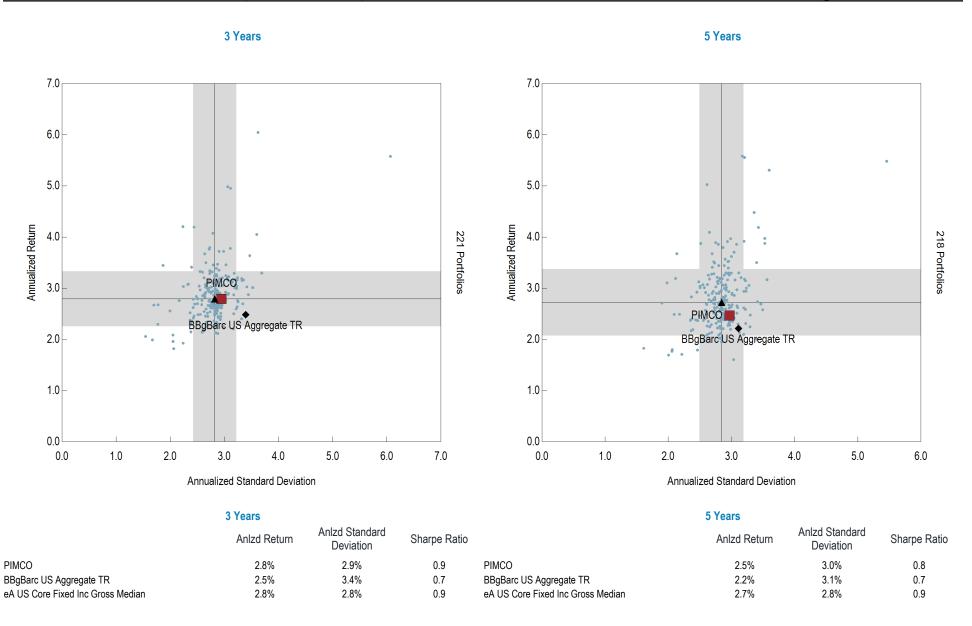


Rolling 3 Year Annualized Return (%)



Rolling 5 Year Annualized Return (%)





Performance Return Calculations

Performance is calculated using Modified Dietz and for time periods with large cash flow (generally greater than 10% of portfolio value), Time Weighted Rates of Return (TWRR) methodologies. Monthly returns are geometrically linked and annualized for periods longer than one year.

Data Source

Verus is an independent third party consulting firm and calculates returns from best source book of record data. Returns calculated by Verus may deviate from those shown by the manager in part, but not limited to, differences in prices and market values reported by the custodian and manager, as well as significant cash flows into or out of an account. It is the responsibility of the manager and custodian to provide insight into the pricing methodologies and any difference in valuation.

Illiquid Alternatives

Due to the inability to receive final valuation prior to report production, closed end funds (including but are not limited to Real Estate, Hedge Funds, Private Equity, and Private Credit) performance is typically reported at a one-quarter lag. Valuation is reported at a one-quarter lag, adjusted for current quarter flow (cash flows are captured real time). Closed end fund performance is calculated using a time-weighted return methodology consistent with all portfolio and total fund performance calculations. For Private Markets, performance reports also include Verus-calculated multiples based on flows and valuations (e.g. DPI and TVPI) and manager-provided IRRs.

Manager Line Up					
<u>Manager</u>	Fund_Incepted	Data_Source	<u>Manager</u>	Fund Incepted	Data Source
Mellon S&P 500	4/30/2003	Mellon	Insight	6/29/2017	Northern Trust
BlackRock Russell 1000 Growth	6/30/2010	BlackRock	Prime Property Fund	9/30/2015	Prime Property
Jackson Square	8/31/2006	Northern Trust	American Strategic Value Realty	12/31/2014	American Realty
BlackRock Russell 1000 Value	7/31/2009	BlackRock	BlackRock US Real Estate	9/30/2012	BlackRock
Dodge & Cox - Equity	12/31/1994	Northern Trust	Greenfield Gap	7/31/2014	Greenfield
Legato Capital	12/31/2008	Northern Trust	Invesco	2/29/2008	Mellon
Capital Prospects	12/31/2008	Northern Trust	Medley Capital	5/31/2013	Medley Capital
LSV Asset Mgt	8/31/2004	Northern Trust	Raven Capital	5/31/2013	Raven Capital
Pyramis	4/30/2006	Northern Trust	Raven Opportunity III	7/31/2015	Raven Capital
Dodge & Cox - Fixed	12/31/1994	Northern Trust	White Oak Pinnacle	8/31/2013	White Oak
PIMCO	5/31/2010	Northern Trust	MS Infrastructure	5/31/2015	Morgan Stanley

Policy & Custom Index Composition

Policy Index: 14.4% Russell 1000 Value, 11.3% Russell 1000 Growth, 4.8% S&P 500, 4.0% Russell 2000 Value, 3.7% Russell 2000 Growth, 18.0% MSCI

ACWI ex USA, 29.8% BBgBarc US Aggregate, 3.5% DJ US Select RESI, 7.5% 9% Annual, 3% CPI + 4%.

US Equity Blended: 80% Russell 1000, 20% Russell 2000.

Other Disclosures

Fiscal Year End: 6/30

Cash Account includes cash held at Northern Trust for all closed end funds and cash held by BlackRock.

Effective 1/01/2017, only traditional asset class (public equity, public fixed income, REITs) investment management fees will be included in the gross of fee return calculation.

All data prior to 6/30/2015 provided by the previous consultant.



Glossary

Allocation Effect: An attribution effect that describes the amount attributable to the managers' asset allocation decisions, relative to the benchmark.

Alpha: The excess return of a portfolio after adjusting for market risk. This excess return is attributable to the selection skill of the portfolio manager. Alpha is calculated as: Portfolio Return - [Risk-free Rate + Portfolio Beta x (Market Return - Risk-free Rate)].

Beachmark R-squared: Measures how well the Benchmark return series fits the manager's return series. The higher the Benchmark R-squared, the more appropriate the benchmark is for the manager. **Beta:** A measure of systematic, or market risk; the part of risk in a portfolio or security that is attributable to general market movements. Beta is calculated by dividing the covariance of a security by the variance of the market.

Book-to-Market: The ratio of book value per share to market price per share. Growth managers typically have low book-to-market ratios while value managers typically have high book-to-market ratios. Capture Ratio: A statistical measure of an investment manager's overall performance in up or down markets. The capture ratio is used to evaluate how well an investment manager performed relative to an index during periods when that index has risen (up market) or fallen (down market). The capture ratio is calculated by dividing the manager's returns by the returns of the index during the up/down market, and multiplying that factor by 100.

Correlation: A measure of the relative movement of returns of one security or asset class relative to another over time. A correlation of 1 means the returns of two securities move in lock step, a correlation of -1 means the returns of two securities move in the exact opposite direction over time. Correlation is used as a measure to help maximize the benefits of diversification when constructing an investment portfolio.

Excess Return: A measure of the difference in appreciation or depreciation in the price of an investment compared to its benchmark, over a given time period. This is usually expressed as a percentage and may be annualized over a number of years or represent a single period.

Information Ratio: A measure of a manager's ability to earn excess return without incurring additional risk. Information ratio is calculated as: excess return divided by tracking error.

Interaction Effect: An attribution effect that describes the portion of active management that is contributable to the cross interaction between the allocation and selection effect. This can also be explained as an effect that cannot be easily traced to a source.

Portfolio Turnover: The percentage of a portfolio that is sold and replaced (turned over) during a given time period. Low portfolio turnover is indicative of a buy and hold strategy while high portfolio turnover implies a more active form of management.

Price-to-Earnings Ratio (P/E): Also called the earnings multiplier, it is calculated by dividing the price of a company's stock into earnings per share. Growth managers typically hold stocks with high price-to-earnings ratios whereas value managers hold stocks with low price-to-earnings ratios.

R-Squared: Also called the coefficient of determination, it measures the amount of variation in one variable explained by variations in another, i.e., the goodness of fit to a benchmark. In the case of investments, the term is used to explain the amount of variation in a security or portfolio explained by movements in the market or the portfolio's benchmark.

Selection Effect: An attribution effect that describes the amount attributable to the managers' stock selection decisions, relative to the benchmark.

Sharpe Ratio: A measure of portfolio efficiency. The Sharpe Ratio indicates excess portfolio return for each unit of risk associated with achieving the excess return. The higher the Sharpe Ratio, the more efficient the portfolio. Sharpe ratio is calculated as: Portfolio Excess Return / Portfolio Standard Deviation.

Sortino Ratio: Measures the risk-adjusted return of an investment, portfolio, or strategy. It is a modification of the Sharpe Ratio, but penalizes only those returns falling below a specified benchmark. The Sortino Ratio uses downside deviation in the denominator rather than standard deviation, like the Sharpe Ratio.

Standard Deviation: A measure of volatility, or risk, inherent in a security or portfolio. The standard deviation of a series is a measure of the extent to which observations in the series differ from the arithmetic mean of the series. For example, if a security has an average annual rate of return of 10% and a standard deviation of 5%, then two-thirds of the time, one would expect to receive an annual rate of return between 5% and 15%.

Style Analysis: A return based analysis designed to identify combinations of passive investments to closely replicate the performance of funds

Style Map: A specialized form or scatter plot chart typically used to show where a Manager lies in relation to a set of style indices on a two-dimensional plane. This is simply a way of viewing the asset loadings in a different context. The coordinates are calculated by rescaling the asset loadings to range from -1 to 1 on each axis and are dependent on the Style Indices comprising the Map.

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Verus receives universe data from InvestorForce, eVestment Alliance, and Morningstar. We believe this data to be robust and appropriate for peer comparison. Nevertheless, these universes may not be comprehensive of all peer investors/managers but rather of the investors/managers that comprise that database. The resulting universe composition is not static and will change over time. Returns are annualized when they cover more than one year. Investment managers may revise their data after report distribution. Verus will make the appropriate correction to the client account but may or may not disclose the change to the client based on the materiality of the change.







AUGUST 22, 2017

Private Markets Education

Stanislaus County Employees' Retirement Association

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process	

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Approaches to private market investing



Overview of private equity

- Investments in privately held companies:
 - Generally illiquid / limited liquidity
 - Few established industry benchmarks
 - Sub-classes differ in cash-flow and performance attributes
- Long term investment horizon: 3-12+ years
- Primary reason to invest: Return Enhancement

	1 Year	3 Years	5 Years	10 Years	20 Years
Venture Capital	3.84	11.34	14.05	10.09	22.85
Buyouts	12.21	12.25	15.18	10.34	12.19
Debt-Related	11.76	7.39	11.41	9.49	10.31
All Private Equity	9.48	9.51	12.64	9.66	13.06
S&P 500	11.96	8.87	14.66	6.95	7.68
Russell 3000	12.73	8.43	14.67	7.07	7.86
Barclays Aggregate	2.65	3.03	2.23	4.34	5.29
Cash	0.30	0.12	0.10	0.65	2.12

Source: Thomson Reuters Cambridge Universe: U.S. Private Equity Funds sub asset classes as of December 31, 2016.

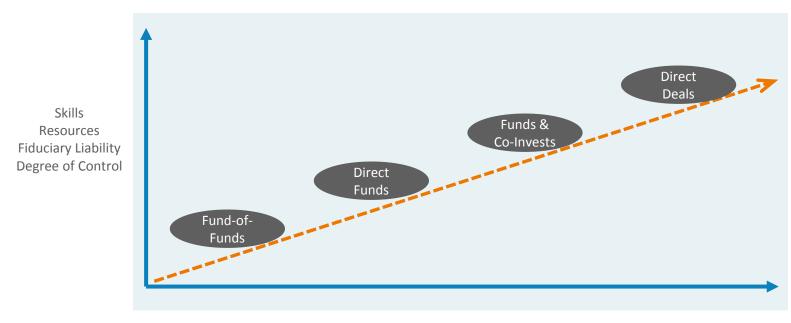


Alternative approaches to implementation

Implementation approach driven by each investor's:

- Investment objectives
- Internal skills and resources
- Tolerance for control, risks, cost

ACTIVE-PASSIVE INVESTOR SPECTRUM



Passive Investors Active Investors



Alternative approaches to implementation

	Fund of Funds	Direct Funds	Funds & Co-Invests	Direct Deals
Level of Customization	Best for the Fund	Best for a smaller number of clients	Closely aligned with client needs	Most aligned with client needs
Skills Required	Minimal	Manager selection	Manager selection and underwriting	Various direct private market
Additional Resources Required	None	Minimal	1-3 dedicated	Generally 10+ dedicated
Fiduciary Liability	Selecting single manager	Selecting potentially multiple managers	Selection potentially multiple managers and Co-Invest deals	Selecting all deals
Degree of Control	Low - Funds selected by Fund of Funds Manager	Medium - Funds selected by Client	Higher - Funds & Co- Invests selected by Client	Highest - all investments selected by Client
Investment Costs	Generally highest due to Fund of Fund fees	Generally lower than Fund of Funds due to elimination of Fund of Fund fees	Lower than Direct Funds due to favorable pricing from Co-Invests	Lowest due to elimination of General Partner fees

Passive Investors Active Investors



Summary comparison of approaches

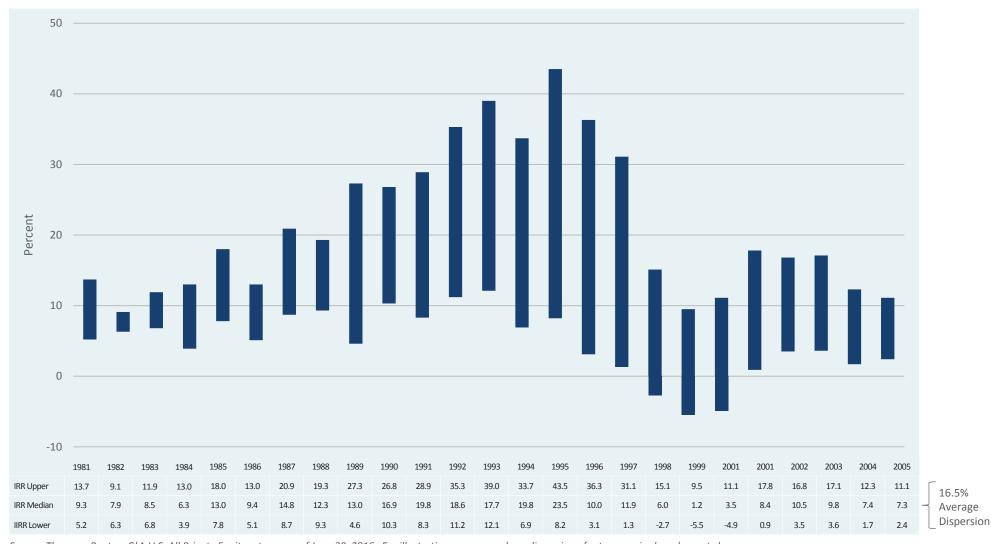
		Fund-of-Funds	Secondary Funds	Direct via Staff	Direct via Advisor
Typical Portfolio	GPs (#)	1-3+	1-3+	4-15+	4-15+
	Funds (#)	15-30+	20-30+	10-30+	10-30+
	Portfolio Cos. (#)	225-450+	250-450+	150-450+	150-450+
Exposure	Years to reach target	5-7	3-4	4-6	4-6
Diversification	Vintage year Sub-asset class Geography Sector/industry				
Required Staff	Portfolio construction/oversight Manager selection Legal diligence Ongoing administration (capital flows, stock distributions, ammendments) Monitoring Performance tracking / reporting				
Pooled Returns	Last 10-years (U.S.) Last 20-years (U.S.)	9.7% 9.4%	10.5% 9.4%	11.3% 14.8%	11.3% 14.8%
Implementation (estimate, per \$1	Costs .00M commitment)	\$930k/year	\$800k/year	Varies	Varies
				Hig	h Med Low

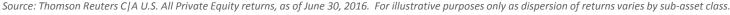


Direct funds investment process



Manager selection is critical to results







Verus' disciplined process for offers visibility and structure

ESTABLISH PARAMETERS

Timing: 1-2 weeks

Main objectives

- Determine goals of the program and fit/role within the overall portfolio
- Specify general approach (i.e., fund of funds vs. direct) and targeted strategies
- Develop return expectations, risk tolerances and desired liquidity profile
- Define roles and responsibilities of Staff and Verus
- Draft "roadmap" and Investment Guidelines, if necessary

SOURCING / SCREENING

Timing: Ongoing

Main objectives

- Proactively identify new investments from a variety of sources (e.g., personal networks, LPs, clients, prime brokers, industry publications, 3rd party databases)
- Log all relevant documents/data and store on internal database in preparation for initial review
- Regularly attend conferences and annual investor meetings in order to broaden our network of contacts

PRELIMINARY EVALUATION

Timing: 1 week

Main objectives

- Gain an understanding of the firm, its business model, team, client base and experience managing client relationships
- Evaluate the investment strategy, process and historical track record
- Develop an investment thesis and make sure it matches client needs
- Initial evaluations discussed at regular internal staff meetings, or ad hoc if required by client timeframe

MONITORING & REPORTING

Timing: Ongoing

Main objectives

- Establish communication and information flow to client and Verus
- Review performance and portfolio exposures on monthly or quarterly basis
- Provide quarterly reports to client
- Conduct follow-up meetings or onsite visits as needed, but at least annually
- Evaluate impact of any macro events or firmspecific developments, opine as to amendments, option to redeem, etc.

EXECUTION

Timing: 2-4 weeks

Main objectives

- Review all legal documents in conjunction with client's legal counsel
- Facilitate information requests and clientmanager communications
- Negotiate terms and conditions, assist with drafting of any side letters
- Assist Staff with the preparation of reports/memos
- Work with client, service providers and manager to meet relevant deadlines

DUE DILIGENCE

Timing: 4-12 weeks

Main objectives

- Gain an in-depth understanding of the strategy and how the team operates
- Identify the manager's value proposition or "edge" over peers...is it repeatable?
- Establish expectations, key drivers of return and main sources of risk
- Focus on incentives, alignment of interests and potential conflicts
- Perform reference checks and utilize multiple sources to validate findings

Process subject to change, as appropriate.



Building the portfolio with clients

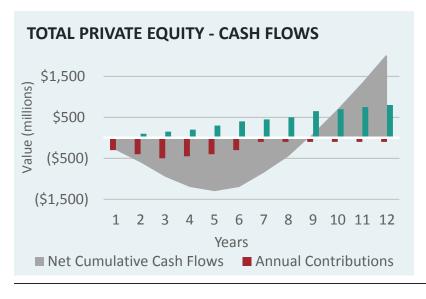
Representative Process for Working with Clients

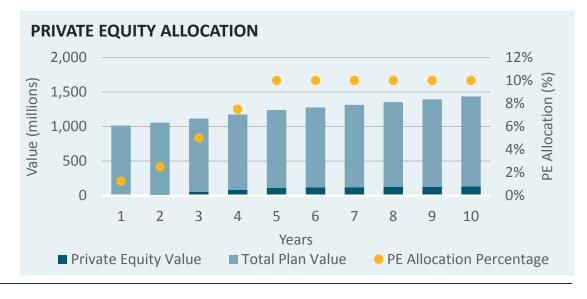




Commitment planning

Purpose	Plan future commitments given varying cash flows and valuations of existing fund commitments
Process	 Each underlying existing commitment projected Projections aggregated to total portfolio level to determine PE allocation in future years Once future PE allocations forecasted, adjust future commitments to reach PE allocation target by certain year
Benefits	 Flexibility in adjusting future commitments Ability to conduct scenario analysis
Verus Assumptions	 Organized by sub-class Iteratively developed over years Based on Venture Economics, Private I, and vast knowledge and experience of our private markets team

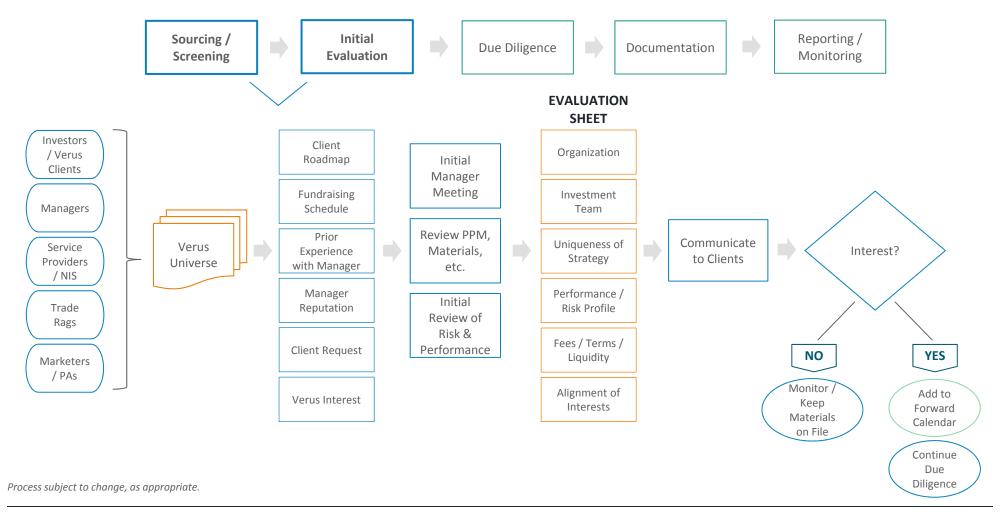






Due diligence process: Sourcing & preliminary evaluation

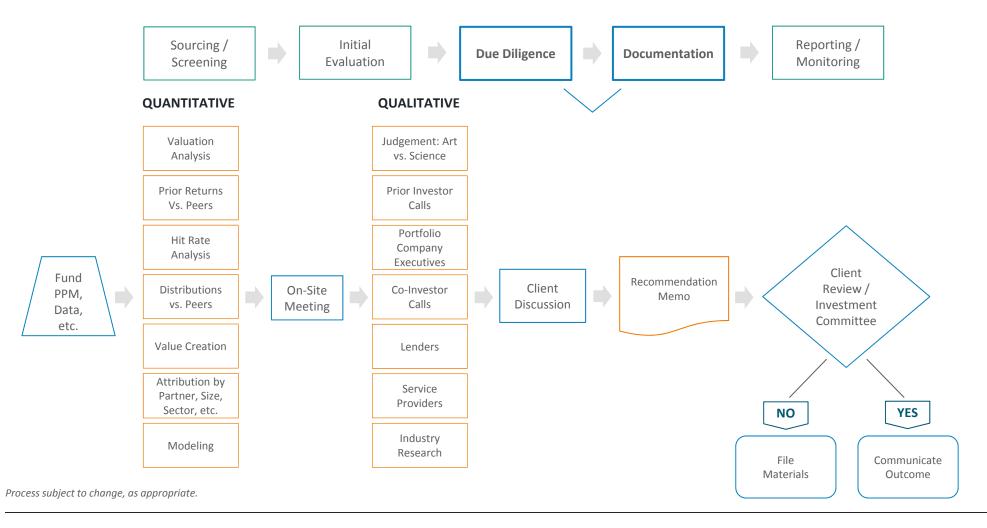
We deliberately avoid a "cookie-cutter" approach that can lead to sub-optimal returns.





Disciplined process: Full due diligence

Diligence process typically takes two to three months per fund. We seek to identify sources of "value creation." Information *not* provided is often more important than that which is provided!





Value drivers: Venture capital

- Losers tend to appear more quickly than winners
- Returns generated from ~45% of the portfolio, with the remainder partial or total losses
- Portfolio companies often held at last financing round valuation

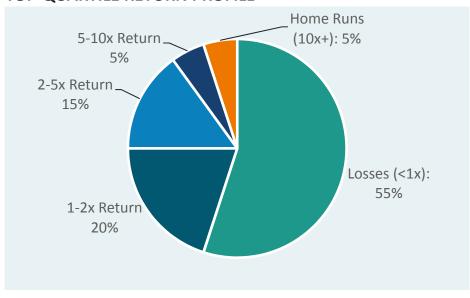
Managing Risks at the Early Stage

- Manage the optionality: the earlier the stage, the less capital required to test big ideas
- Follow-on financing:
 - Pending achievement of milestones
 - Other people's money
- GP reputation matters

Managing Later Stage Risks

- Sector/company selection, and...
- …invest at reasonable value.
- Otherwise, manage to market cycles.

TOP-QUARTILE RETURN PROFILE



Value drivers: Buyouts

Sources of Return	Repeatability Dependent On	Metrics
Improved Company Operations	— Operating Skills	— Growth in Revenue— Margin Expansion
Multiple Expansion	Value OrientationMarket Cycles	Performance in Up & Down MarketsEntry/Exit Multiples versus Industry Peers
Leverage	— Market Cycles	— Debt/EBITDA, relative to—Growth Rates

VERUS VALUE CREATION ANALYSIS

Key Input Variables

- Company operating parameters over time
- Entry & exit/current valuations
- Capitalization: equity, debt, syndicate partners
- Deal source, method of exit

Attribution of Prior Returns by

- Sector/sub-sector
- Geography
- Size
- Investment professional
- Realized vs. unrealized deals



Value drivers: Debt-related funds

Type of Debt Fund	Sources of Return	Repeatability Dependent On	Metrics
Senior Debt	— Market Interest Rates— Syndication Fees & Rights	Market CyclesCredit AnalysisProtective Covenants	Current YieldsReturns from Yield vs. Fees & PenaltiesLoss Ratio
Mezzanine	Market Interest RatesEquity UpsideLoss Mitigation	Market Cycles &Competing ProductsCompany Selection	Performance in Up & Down MarketsEntry/Exit Multiples versus Industry Peers
Distressed: Trading	Entry vs. Exit Price to ParRecycling of Proceeds	Market OpportunityValue Orientation	— Timing of Fundraising— IRR vs. Peers & Hi Yield in Similar Markets
Distressed: Control	Ability to Gain ControlImproved CompanyOperations and/or CapitalStructure	 Market Opportunity Value Orientation Credit/Security Analysis Restructuring Skills Control Buyout Skills 	 Timing of Fundraising Control vs. Non-Control Deals (%) Role on Creditor Committee Entry Price/EBITDA Entry vs. Exit Debt Levels Changes in Company Revenue/Margins Hit Rates & Loss Ratios

DEBT FUNDS HEAVILY DEPENDENT ON MARKET CYCLES:

SEEK ALTERNATIVE SOURCES OF RETURNS WITH SIMILAR CHARACTERISTICS FOR PERMANENT ALLOCATION



Terms & conditions

Alignment of interests is paramount in achieving return objectives.

Economic Terms

- GP commitment
- Fees/carried interest
 - Management fee
 - Carried interest
 - Preferred return
 - Fee offsets
 - Organizational expenses

Governance Terms

- LP advisory board
- Key man
- No fault
- Clawback

SAMPLE FEE MODELING OUTPUT

Modeling net LP returns based on economic terms informs legal negotiations.

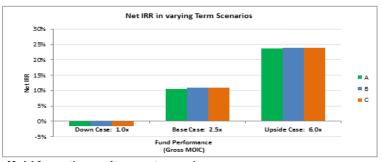
EXCERPT FROM VERUS FUND EVALUATION SHEET

(1-5 on a point scale) represents 20% of "rating" for each fund evaluated.

Down Case (1.0x gr	oss fund p	erformanc	e)		
	Managem	Preferred		Net	IRR
Terms Favoring:	ent Fee	Return	Carried Interest	TYPI	(down)
No Threshold [A]	1.00%	10%	25%	0.90x	-1.52%
2.00x Net Threshold [E	1.00%	10%	20% before Threshold; 25% afterwards	0.90x	-1.52%
3.00x Net Threshold [C	1.00%	10%	20% before Threshold; 30% afterwards	0.90x	-1.52%

Dase Case (2.0x y					
	Managem	Preferred		Net	IBB
Terms Favoring:	ent Fee	Return	Carried Interest	TVPI	(base)
No Threshold [A]	1.00%	10%	25%	2.00x	10.60%
2.00x Net Threshold [E	1.00%	10%	20% before Threshold; 25% afterwards	2.04x	10.91%
3.00x Net Threshold [C	1.00%	10%	20% before Threshold; 30% afterwards	2.04x	10.93%

Upside Case (6.0x					
Terms Favoring:	Managem ent Fee	Preferred Return	Carried Interest	Net TVPI	IRR (up)
No Threshold [A]	1.00%	10%	25%	4.36x	23.80%
2.00x Net Threshold [E	1.00%	10%	20% before Threshold; 25% afterwards	4.40x	23.96%
3.00x Net Threshold [C	1.00%	10%	20% before Threshold; 30% afterwards	4.378	23.82%



Model Assumptions used to generate scenarios

(1) Fund size is \$1.2 billion (2) Fund Life is 13 years

(3) Investment period is six years.

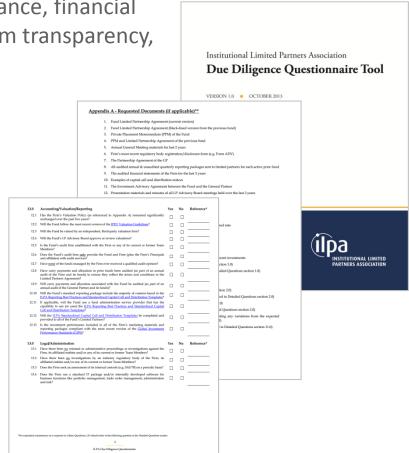
Alignment of Interests	20%	14%					
GP Commitment	60%	2	-\$225mm or 3% of commitments. Jim Davidson committing \$50mm - prior fund, committed \$30mm - may co-invest up to 5% each year of equity available to the fund for the next 4 succeeding qtrs				
Fees / Carried Interest	20%	3	- Management Fee (% of):	1.5%/1.0% - \$250-1.425%; >=\$500-1.375; \$250-\$500- 1.4%	Organizational Expenses up to:		
			- Carry:	- 20% - deal by deal	- Subject to LP Preferred Return: yes - 8%		
			 Fees offset Management Fee by: 	100% offset	Commitment Period: Six-years		
Downside Protection	20%		- Clewbeck: - yes - 10% holdbeck - No Fault: yes - 80% - Advisory Board: - yes - 5 LPs	 Key-Men (identify): 3 of 5 must be active - Mike Bing Mondre 	de, Jim Devidson, Egon Durben, Kenneth Hao and Greg		

Operational due diligence

We advocate use of the ILPA Due Diligence Questionnaire to research key GP operational issues, including risk management, compliance, financial controls, and systems. Use of this tool promotes maximum transparency, while minimizing administrative burden.

Areas of Focus

- Firm history and organization
- Legal, tax, and regulatory
- Risk management
- Compliance
- Finance and reporting
- Financial controls
- Insurance
- Information management Systems
- Disaster recovery process



Verus applauds and endorses the standardized ILPA DDQ tool. ILPA compiled this DDQ from over a dozen sample questionnaires provided by LPs, GPs, and third parties and went through a 6-month public comment period.

INVESTMENT PLAN – OVERVIEW

- Purpose As per existing policy, review Plan:
 - Policy: Proposed changes to
 - 1. Reflect plans sub-asset classes without Commodities (and associated benchmarks);
 - 2. Modify the authority delegated to Staff for small investments, allowing "re-ups" with existing managers in good standing, pending in-depth due diligence results.
 - Investment Plan: Proposed updates to future annual commitments
- Key Updates:
 - Increase in Plan Value (December 31, 2015 projection: \$7.2 billion)
 - Verus Long-Term Growth Rate Assumption: 7.4%
 - No Updates to Plan Contribution and Distribution Assumptions (source: Segal Co., 2014)

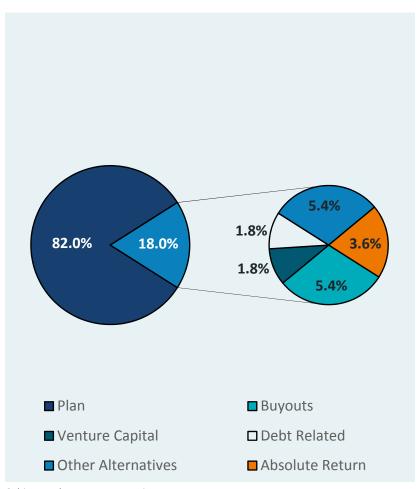
Current Outlook / Key Assumptions	Implications	Impact on Investment Plan
Continued stability in capital markets	 Future growth of the Plan likely in line with Long-Term expectations 	 Commitment plan in line with long-term Policy target: Alt 10%, PE 5% (no change from 2014)
Improved liquidity for private assets– M&As and IPOs up	 Deal prices up in both Buyouts and VC 	 Recommendations subject to compelling opportunities only
3. Continued, but moderating risk of capital "overhang" in U.S. and European Buyouts4. General availability of Debt	 GP capacities constrained 	 Emphasize "back to basics:" Alignment of interests Disciplined, value-oriented Proprietary sourcing/capabilities Operating value-add
5less so for smaller companies6. Sovereign Debt risk in Europe	 Pockets of opportunity remain in Debt/Special Situations 	 Continue 10% overweight to Debt/Special Situations (2014 target)
7. Downside risk on par with 2010 / higher than 20098. Volatility likely to continue	 Hedge funds can add value 	 Begin deploying capital to hedge funds (via func of-funds)

Subject to change, as appropriate.

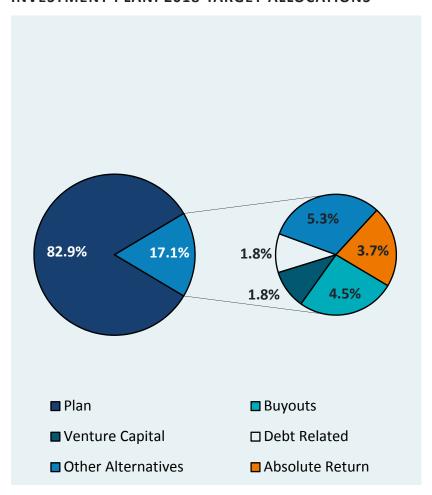


Total Plan Allocation*

LONG-TERM TARGETS



INVESTMENT PLAN: 2018 TARGET ALLOCATIONS



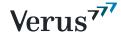
Subject to change, as appropriate

^{*}Allocations are market value of funded commitments.



TOTAL PROJECTED ALLOCATIONS		12/31/2013		12/31/2014		12/31/2015		12/31/2016		12/31/2017		12/31/2018	
	Α	ctual Allocation	Α	ctual Allocation		Projected Allocation	P	Projected Allocation	Pi	rojected Allocation	Pr	ojected Allocation	
Buyouts	\$	118,126,044	\$	178,461,715	\$	220,434,886	\$	258,545,499	\$	314,962,653	\$	378,961,228	
Venture Capital	\$	70,411,809	\$	118,402,809	\$			163,244,974		169,967,492		180,010,882	
Debt-Related/Special Situations	\$	75,097,866	\$	70,125,754	\$	75,742,542	\$	113,934,521	\$	164,429,075	\$	184,549,446	
Total Private Equity	\$	263,635,719	\$	366,990,278	\$	446,385,934	\$	535,724,994	\$	649,359,219	\$	743,521,556	
Absolute Return	\$	119,574,000	\$	123,448,000	\$	232,376,712	\$	257,280,965	\$	283,977,426	\$	310,707,558	
Other Alternatives	\$	57,059,205	\$	113,064,086	\$	118,623,274	\$	220,864,942	\$	303,028,072	\$	446,134,019	
Total Non-PE Alternatives	\$	176,633,205	\$	236,512,086	\$	350,999,986	\$	478,145,908	\$	587,005,499	\$	756,841,577	
Total PEARLS Portfolio	\$	440,268,924	\$	603,502,364	\$	797,385,920	\$	1,013,870,901	\$	1,236,364,718	\$	1,500,363,133	
Approximate Plan Value - Beginning of Year	\$	5,665,616,724	\$	6,636,723,477			\$	7,170,294,074	\$	7,559,569,381	\$	7,956,670,982	
+ SIS Growth Assumption (7.40% per year)					\$	7,206,076,153	\$	530,601,761	\$	559,408,134	\$	588,793,653	
+ Plan Contributions per Segal (12/31/2013)					\$	- // -	\$	334,466,790	\$	339,372,510	\$	345,098,164	
- Plan Distributions per Segal (12/31/2013)					\$	187,101,860	\$	475,793,244	\$	501,679,044	\$	528,885,457	
= Plan Value - End of Year	\$	6,636,723,477	\$	6,784,209,377	\$	7,170,294,074	\$	7,559,569,381	\$	7,956,670,982	\$	8,361,677,341	
Private Equity as a % of Plan (Target ~9.0%)		3.97%		5.41%		6.23%		7.09%		8.16%		8.89%	
Absolute Return as a % of Plan (Target ~3.6%)		1.80%		1.82%		3.24%		3.40%		3.57%		3.72%	
Other Alternatives as % of Plan (Target ~5.4%)		0.86%		1.67%		1.65%		2.92%		3.81%		5.34%	
Non-PE Alternatives as a % of Plan (Target ~9.0%)		2.66%	-	3.49%		4.90%		6.33%		7.38%		9.05%	
VC 0/ of Total Drivete Favity													
VC % of Total Private Equity (Target 20% / Range 0%-30%)		27%		32%		34%		30%		26%		24%	
	_	2170		32%		34%		30%		20%		24%	
Buyouts % of Total Private Equity (Target 60% / Range 40%-80%)		45%		49%		49%		48%		49%		51%	
Debt/Special Situations % of Total Private Equity	_	45%		49%		49%		48%		49%		51%	
(Target 20% / Range 10%-30%)		28%		19%		17%		21%		25%		25%	
(Target 20% / Range 10%-30%)		2070		19%		1/70		2170		25%		23%	
Absolute Return % of Total Alternatives													
(Target: 40%: 0-60%)		68%		52%		66%		54%		48%		41%	
Other Alts. % of Total Alternatives												•	
(Target 60% / Range 0%-80%)		32%		48%		34%		46%		52%		59%	
PEARLS Total contributions	\$	110,722,400	\$	145,906,624	\$	184,288,116	\$	264,339,090	\$	294,305,328	\$	297,103,727	
PEARLS Total distributions	\$	82,717,322		60,278,687				142,702,255		183,173,054		158,455,784	
PEARLS Year-by year commitments	\$	35,000,000		217,500,000	_		_	350,000,000		310,000,000	-	275,000,000	
					Ĺ	<u>, </u>				· ,			

Subject to change, as appropriate.



IMPLEMENTATION ROADMAP - AS OF JULY 1, 2011 ANNUAL COMMITMENTS*

PEARLS category	2013	2014	2015	2016	2017	2018			
	Actual Commit (\$)	Actual Commit (\$)	Projected Commit (\$)	Projected Commit (\$)	Projected Commit (\$)	Projected Commit (\$)			
Venture Capital	\$ 10,000,000	\$ 10,000,000	\$ 15,000,000	\$ 25,000,000	\$ 35,000,000	\$ 35,000,000			
Buyouts	\$ -	\$ 97,500,000	\$ 105,250,000	\$ 85,000,000	\$ 85,000,000	\$ 85,000,000			
Debt-Related/Spec Sit	\$ -	\$ 20,000,000	\$ 50,000,000	\$ 120,000,000	\$ 70,000,000	\$ 35,000,000			
Absolute Return	\$ -	\$ 40,000,000	\$ 100,000,000						
Other Alternatives	\$ 25,000,000	\$ 50,000,000	-	\$ 120,000,000	\$ 120,000,000	\$ 120,000,000			
Total PEARLS Portfolio	\$ 35,000,000	\$ 217,500,000	\$ 270,250,000	\$ 350,000,000	\$ 310,000,000	\$ 275,000,000			
	Actual Commit (#)	Actual Commit (#)	Projected Commit (#)	Projected Commit (#)	Projected Commit (#)	Projected Commit (#)			
Venture Capital	1	1	2	2 - 3	4 - 5	4 - 5			
Buyouts	0	4	2	2 - 3	2 - 3	2 - 3			
Debt-Related/Spec Sit	0	1	1	2 - 3	2	1			
I					0	0			
Absolute Return	0	1	1	0	U	U			
Absolute Return Other Alternatives	0 1	1	0	0-4	0-4	0-4			
	0 1	1 1	0			, and the second			

Subject to change, as appropriate.



Capital flows: Market reviews

KEY MARKET DATA Rising default rates creating opportunity Global distressed private equity Defaults spiked in 2015, underscoring the potential for attractive distressed PE returns. However, most of the defaults have been in energy, where commodity price movements can lead to binomial outcomes, an unsuitable environment for trading-oriented distresses debt investors. PE managers capable of taking control of distressed companies ca Debt-Related: Lower debt issuance slows buyouts - Mature fund returns: Historically, distressed PE funds have generated double climbed above 10% (excluding 2003 and 2011). The 2015 default rates climber U.S. performing credit Availability/new in 2014. Defaults have primarily been in energy as default rates for non-energy - Current capital overhang: Since 2010, excluding 2012, distressed PE firms have New debt issuances declines as appetite for riskier debt abates. While spreads have widened, interest coverage (EBITDA/Cash Interest) growing capital overhang. In 2015, firms raised \$31.5 billion in capital, a slight issuance is above its 10 year rolling average suggesting that companies have ample ability to make interest payments. invested \$29.6 billion versus \$27.8 billion invested in 2014. Distress PE firms w defaults in 2015 - New issuance volume: New issuances of U.S. LBO loans and high yield totaled \$472 billion in 2015, a decrease of 15% from prior - Cost GLOBAL DISTRESSED PRIVATE EQUITY RETURNS FOR MATURE year. New issuance volume is below its all time peak reached in 2013 of \$677 billion CAPITAL RAI VINTAGE YEARS(1) VS. DEFAULT RATES(2) - Spreads: U.S. high yield spreads continue to widen reaching 695 bps at the end of the year. The last time spreads had hit this level - Terms 40 0% 35.0% coverage (EBITDA/Cash Interest) continued LBO debt sourcing capital from high yield 30.0% 25.0% 20.0% 15.0% Europe performing credit Buyouts: Similar to the U.S., new debt issuances also declined. While spreads have widened, European LBO terms are much more conservative CREDIT RATIOS than in the U.S. as European banks, the major source of LBO credit, continue to limit lending due to tighter banking regulations. Fundraising volume 7.0x New issuance volume: New issuances of European LBO loans and high yield totaled €137 billion in 2015, a decrease of 19% from 6.0x prior year. The current volume of new issuance is close to the peak reached last year. However, even at its peak, the volume of new 5.0x Entry valuations Source: Thomson CA and Deutsche Ban 4.0x issuances don't approach the current magnitude of new issuance in the US. Unlike 2006/2007, most of the new issuances come (1) Mature vintage years represent funds closed ; (2) Default rates are defined as proportion of issu from the high yield market as bank lending have been stymied by increasing regulation. - Spreads: European high yield spreads continue to widen reaching 535 bps at the end of the year. The current levels were last Verus⁷⁷ reached in 2013. Venture Capital: LBO terms: Total leverage (Debt/EBITDA) declined slightly to 5.01x versus 5.09x in 2014. Interest coverage (EBITDA/Cash Interest) continued to exhibit healthy levels at 3.83x, more than its 10 year rolling average of 3.4x - EBITDA / Cash Interest - Fundraising volumes BOFA MERRILL LYNCH EUROPEAN HIGH YIELD EUROPEAN LBO LOANS (€B) CREDIT RATIOS OPTION-ADJUSTED SPREAD Entry valuations **Private Equity Outlook** 6.0v 5.0x - Exit activity - IPOs / 4 0x 3.0x €80 €60 M&As - Debt/EBITDA EBITDA/Cash Interest Source: S&P/LCE Private Equity Outlook Verus⁷⁷ July 2016

Subject to change, as appropriate



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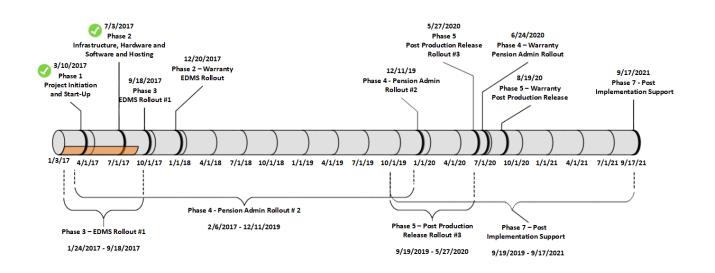




PAS IMPLEMENTATION LINEA BI-WEEKLY STATUS UPDATE



Rick Santos REPORT DATE: 08-11-2017 Sponsor:



Baseline 12/01/2016

STATUS

Risks & Issues:

No high-level risks have been identified.



Accomplishments:

- Facilitated the weekly Project Manager's meeting.
- Generated Project Manager meeting minutes.
- Conducted a group review of BSR004 and facilitated review and approval of BSR005.
- Participated in Tegrit work sessions conducted by Paul Booth and several ad-hoc meetings or discussions.
- Reviewed Tegrit JAD session meeting minutes and compiled decision logs and action items, as needed.
- Tracked requirements discussed in work sessions using the RTM and met with StanCERA PM to update requirements confirmation.

Upcoming:

- Facilitate the weekly Project Manager meetings.
- Facilitate the monthly Steering Committee Meeting.
- Participate in any Tegrit work sessions and other meetings scheduled each week.
- > Continue tracking requirements discussed in work sessions using the RTM.
- ➤ Continue to review Tegrit meeting minutes, decision logs, and action items, as needed.
- Continue to compile and track decisions and action items generated during meetings.
- Review and hold group review sessions for BSR deliverables made by Tegrit.

Accomplishments: (Contd.)

- ➤ Met with Tegrit and StanCERA to review and discuss any outstanding imaging requirements not already confirmed through the development process.
- Continued work with StanCERA and Tegrit to finalize Imaging system folder, document type, and keyword structure development.
- Continued to execute test scripts, assisted StanCERA SMEs with UAT work, logged system bugs, and compiled UAT results for delivery to Tegrit.

Upcoming: (Contd.)

- Continue to work with StanCERA to review and complete action items.
- Continue to meet with StanCERA PM to perform additional requirements confirmation on those requirements Tegrit has included in BSRDs.
- Assist with the preparations, kick-off, and ongoing management for the Imaging UAT period.
- Review UAT test cases, develop UAT Strategy, log system bugs, and track UAT progress for the Imaging UAT.

