



LACERS

LOS ANGELES CITY EMPLOYEES'
RETIREMENT SYSTEM

Portfolio Performance Review

Quarter Ending December 31, 2012

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LOS ANGELES CITY EMPLOYEES'
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Executive Summary

U.S. Equity

The U.S. stock market posted a modest loss of 0.2% during the fourth quarter of 2012, as investors weighed the cross currents from the economic effects of Superstorm Sandy, results of the U.S. presidential election, additional Fed stimulus and the potential impacts from the impending fiscal cliff. U.S. equities concluded 2012 with a solid gain of 16.4%, marking its fourth consecutive year of positive returns and a 76.4% advance since the end of 2008.

Financials was the best performing sector for the quarter and year with returns of 4.9% and 26.4%, respectively. For the year, all sectors posted positive total returns with Consumer Discretionary stocks (23.9%) following Financials for top honors, while the Energy (3.9%) and Utilities (2.2%) sectors lagged other groups.

Despite modest employment growth, the U.S. unemployment rate has dropped from a recent high of 10% in Oct 2009 to its current rate of 7.8%. However, some of the improvement have resulted from a discouraged worker effect. The Bureau of Labor's total unemployment rate, which includes marginally attached workers and those in part time positions for economic reasons, remains at an elevated 14.4%.

Non-U.S. Equity

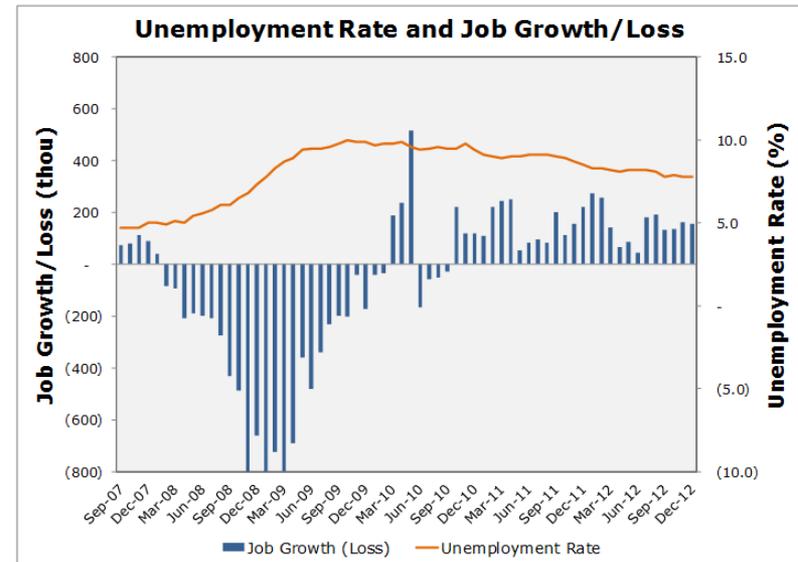
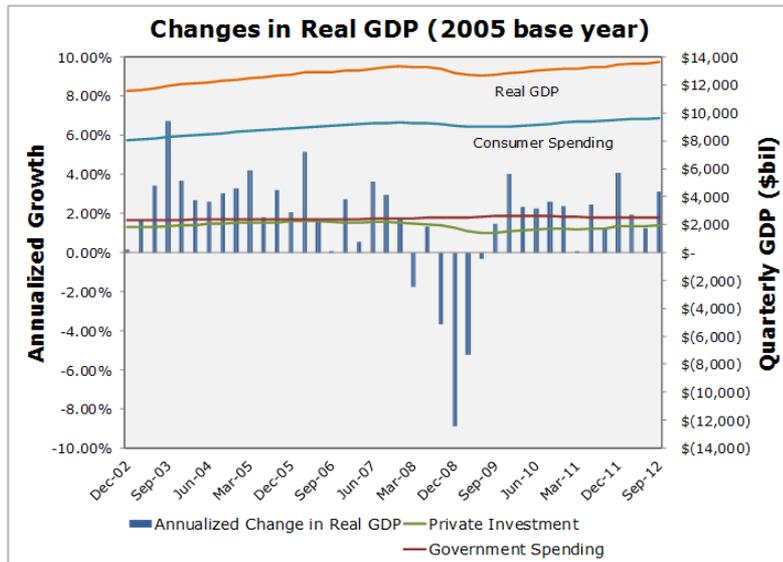
Despite the continued fiscal turmoil in continental Europe, 2012 proved to be a good year for global stocks overall. The euro received additional support from the European Central Bank, preventing a breakup of the Eurozone and providing a boost to the stocks of safer bourses such as Germany and France. Markets in the Asia-Pacific region enjoyed very strong performance for the quarter and year, despite giving up some return for U.S. dollar-based investors. The global economic slowdown dampened performance for emerging markets for the quarter, although gains for the year were resilient.

Fixed Income

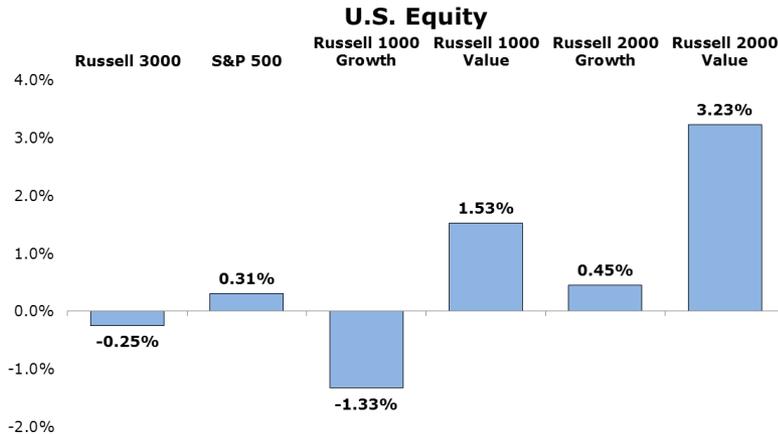
Fixed income markets stayed true to the trends as driven by Federal Reserve policy: Rock-bottom Treasury yields pushing investors to seek additional basis points of yield in riskier asset space. Although short and long Treasury yields barely moved during calendar 2012, intermediate-term yields fell slightly, thereby easing the overall slope of the yield curve. Corporate bonds, especially high-yield paper, outperformed government issuance during the quarter and for 2012.

December 31, 2012		Key Economic Indicators			
CPI (all items) Seasonally adjusted	Monthly Change		Cumulative Change		
	Dec-12	0.0	3-Month	-0.2	
	Nov-12	-0.3	12-Month	1.7	
	Oct-12	0.1	10-Yr Annual	2.4	
Breakeven Inflation	10-Year	2.6			
Consumer Sentiment Unv. of Michigan Survey	Dec-12	72.9			
	Nov-12	82.7			
	1-Yr Ago	69.9	10-Yr Avg	79.0	
Manufacturing Inst. for Supply Mgmt Purchasing Mngrs' Idx	Dec-12	50.7	Change in Manufacturing Sector		
	Nov-12	49.5	>50	Expansion	
	1-Yr Avg	51.7	<50	Contraction	

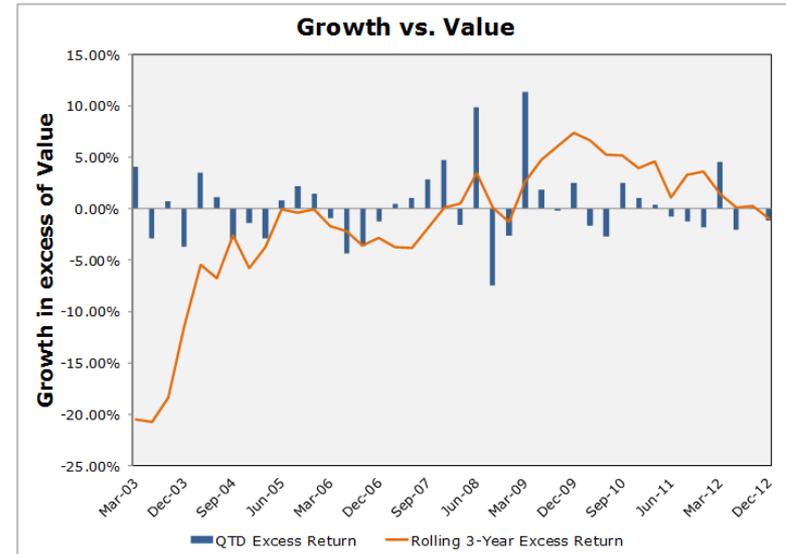
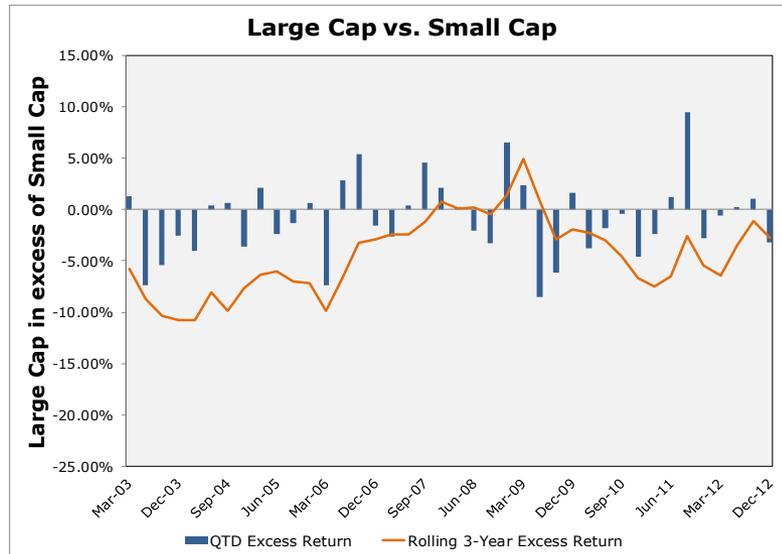
Note: Seasonally adjusted CPI data is utilized to better reflect short-term pricing activity.



Data sources: Bureau of Economic Analysis, Bureau of Labor Statistics, Federal Reserve Bank of St. Louis, Barclays Capital

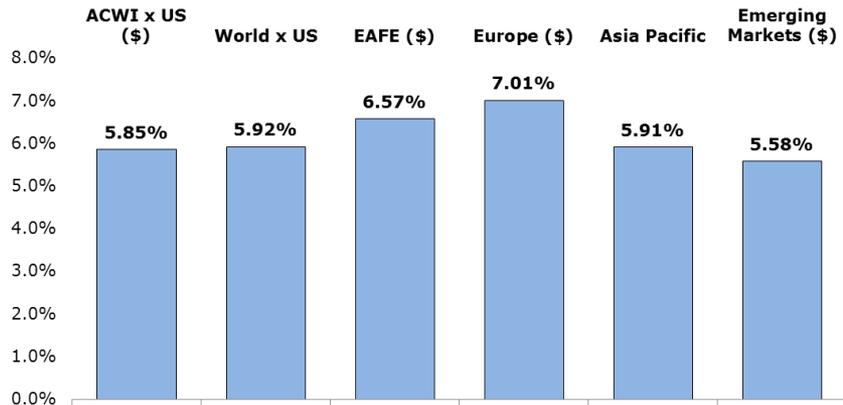


- U.S. stock market faced uncertainty due to Superstorm Sandy, the Presidential election and the impact of the impending fiscal cliff. Despite uncertainties in the fourth quarter, the U.S. market returned a strong 16.4% this year.
- U.S. GDP posted a preliminary annualized growth rate of -0.1% in 4Q12, a decrease from 3.1% in 3Q12.
- Consumer Price Index dropped 0.2% (preliminary), ending the year with a 1.7% increase overall.
- Value stocks performed strongest for the quarter and the year.



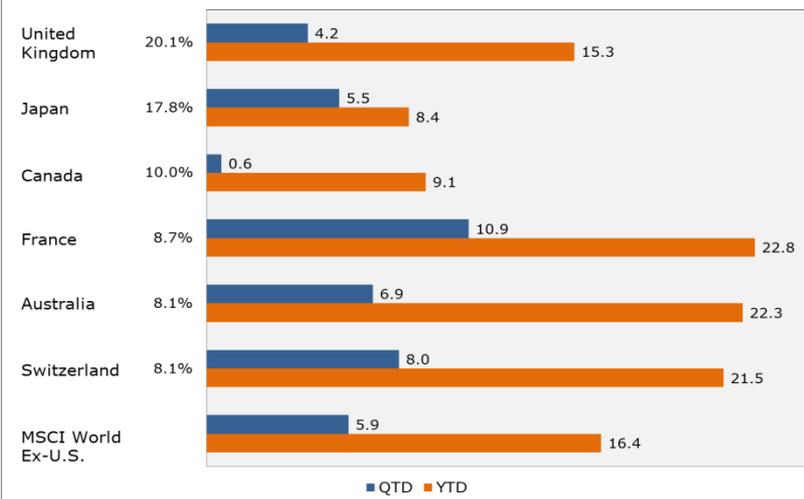
Data sources: Wilshire Compass, Wilshire Atlas

Non U.S. Equity

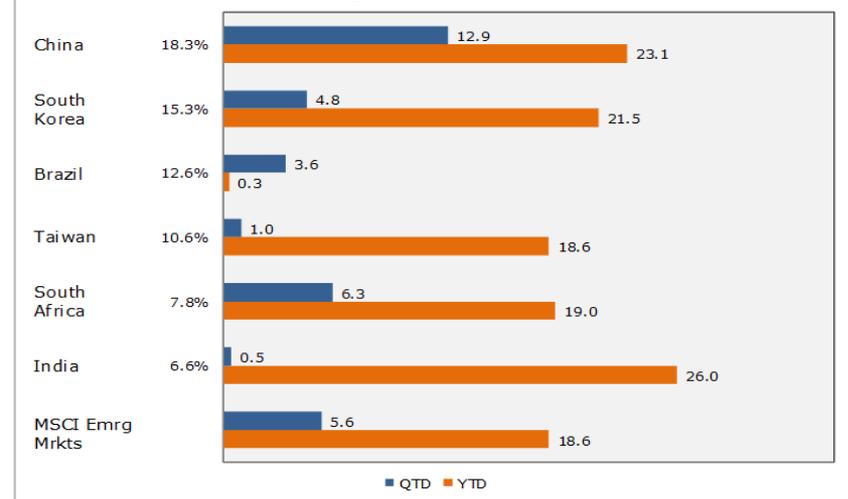


- Despite financial uncertainty in Europe, global equity markets performed strong for the year.
- Asia-Pacific generated positive returns despite headwinds in Japan.
- Support for the euro from the European Central Bank prevented a breakup of the Eurozone and boosted stocks in Germany and France.
- Emerging Markets exhibited strong performance despite economic slowdown globally.

MSCI World Ex-U.S.: Largest Countries and Return

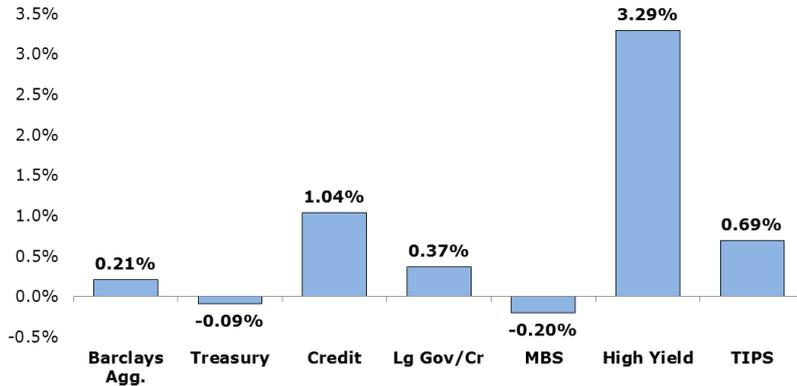


MSCI EM: Largest Countries and Return



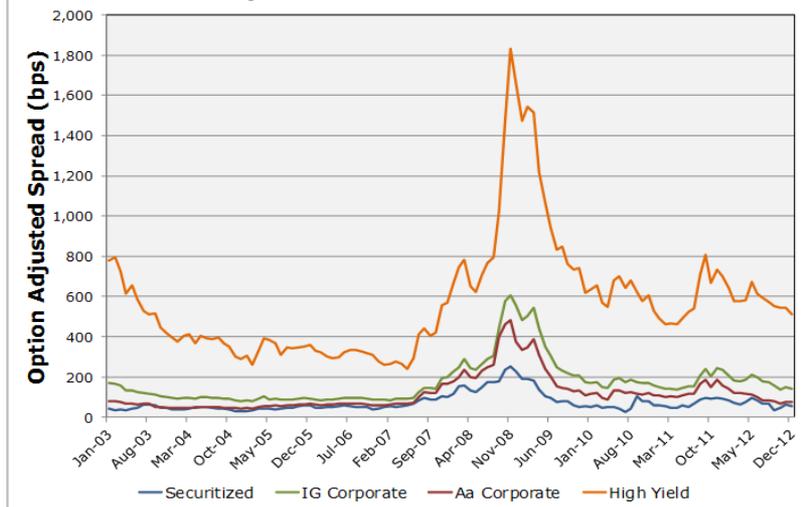
Data sources: Wilshire Compass, MSCI Barra

Fixed Income

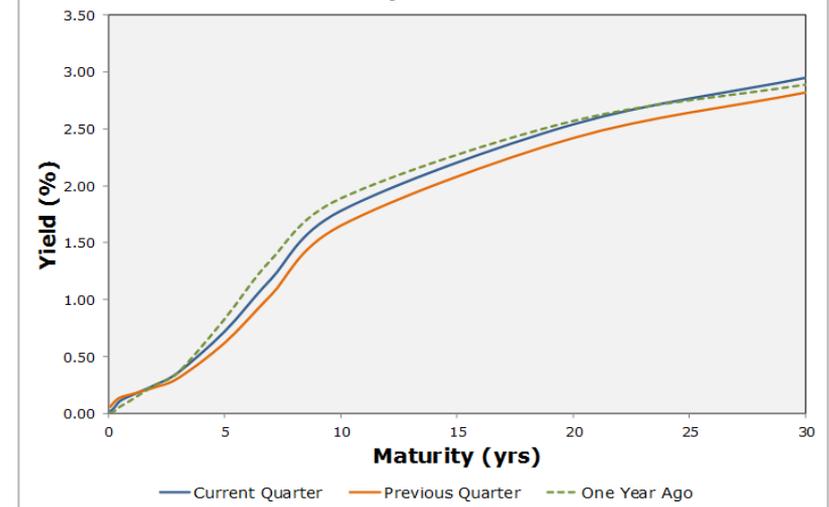


- With interest rates still low, bond investors moved into riskier asset space looking for stronger returns.
- Intermediate-term yields fell slightly, easing the overall slope of the yield curve.
- High Yield outperformed investment grade bond market due to strong stock market performance and investors searching for yield.

Barclays Fixed Income Indexes - OAS



Treasury Yield Curve



Data sources: Wilshire Compass, Barclays Capital, U.S. Treasury

Performance Overview

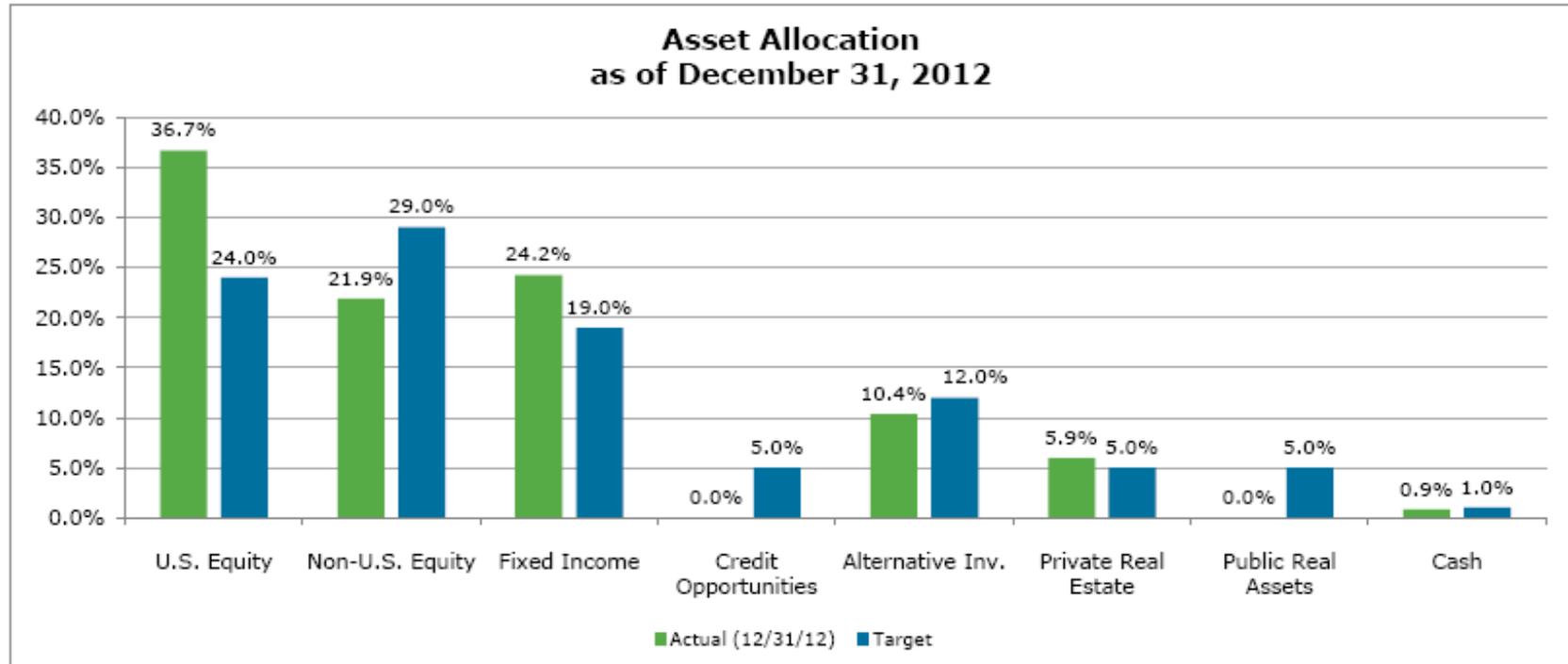
- *LACERS investment portfolio ended the 4th quarter with a market value of \$11.5 billion, an increase of \$0.1 billion from the previous quarter. The Fund's net of fee return was 2.5% for the quarter and 14.3% for the one-year period.*
- *The Total Fund outperformed its policy benchmark by 0.3% for the quarter and matched the policy benchmark for the one-year period.*
- *In a comparison to other public funds with market values greater than \$1 billion in TUCS (Trust Universe Comparison Service), LACERS ranked in the 27th percentile for the quarter and in the 14th percentile for the one-year period.*
- *All asset classes produced positive returns for the 4th quarter of 2012.*
- *U.S. Equity, Non-U.S. Equity, and Fixed Income outperformed their respective benchmarks for the quarter.*
- *Alternative Investments significantly outperformed its benchmark, while Private Real Estate trailed its benchmark for the quarter.*

Note: Due to the J-curve effect in early stages of a fund's life, returns may lag prior to realization of proceeds in later years.



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LOS ANGELES CITY EMPLOYEES'
RETIREMENT SYSTEM

Fund Overview



	Actual	Target*	Min.	Max
U.S. Equity	36.7%	24.0%	19.0%	29.0%
Non-U.S. Equity	21.9%	29.0%	24.0%	34.0%
Fixed Income	24.2%	19.0%	15.0%	22.0%
Credit Opportunities	0.0%	5.0%	0.0%	10.0%
Alternative Inv.	10.4%	12.0%	n/a	n/a
Private Real Estate	5.9%	5.0%	n/a	n/a
Public Real Assets	0.0%	5.0%	2.0%	8.0%
Cash	0.9%	1.0%	0.0%	2.0%

* Revised 1st Qtr 2012: decrease U.S. Equity from 37% to 24%; increase Non-U.S. Equity from 20% to 29%; decrease Fixed Income from 26% to 19%; allocate 5% in Credit Opportunities; increase Alternative Inv. from 9% to 12%; decrease Private Real Estate from 7% to 5%; allocate 5% in Public Real Assets. The implementation of the new Asset Allocation will be in stages over a period of 18 months.

Detail Actual vs Target Allocation

Asset Class / Style	Benchmark	Market Value (\$ Billion)	Market Value to Total Fund (%)	Target to Total Fund (%)	Difference from Target (%)
Equity		\$ 7.94	69.0%	65.0%	4.0%
U.S. Equity		\$ 4.22	36.7%	24.0%	12.7%
Passive		\$ 2.70	23.5%	17.5%	6.0%
Large Cap Core	S&P 500	2.20	19.1%	16.6%	2.6%
Large Cap Growth	Russell 1000 Growth	-	0.0%	1.0%	-1.0%
Large Cap Value	Russell 1000 Value	0.50	4.3%	0.0%	4.3%
Active		\$ 1.52	13.2%	6.5%	6.7%
All Cap	Russell 3000	0.08	0.7%	0.2%	0.5%
Large Cap Core	S&P 500	-	0.0%	0.0%	0.0%
Large Cap Growth	Russell 1000 Growth	-	0.0%	0.0%	0.0%
Large Cap Value	Russell 1000 Value	0.43	3.8%	1.0%	2.8%
Mid Cap Core	Russell Mid Cap	0.06	0.5%	1.2%	-0.7%
Small Cap Core	Russell 2000	0.28	2.5%	1.2%	1.3%
Small Cap Growth	Russell 2000 Growth	0.39	3.4%	1.4%	1.9%
Small Cap Value	Russell 2000 Value	0.27	2.4%	1.4%	0.9%
Non-U.S. Equity		\$ 2.52	21.9%	29.0%	-7.1%
Passive		\$ 1.13	9.8%	10.2%	-0.3%
World ex-U.S.	MSCI World ex-U.S.	1.13	9.8%	10.2%	-0.3%
Active		\$ 1.39	12.1%	18.8%	-6.7%
European	MSCI Europe/10% Abs.	0.50	4.4%	0.0%	4.4%
Asia/Pacific Basin	MSCI Asia/Pacific	0.44	3.8%	0.0%	3.8%
Developed Core	MSCI EAFE/World ex-U.S.	0.13	1.2%	2.9%	-1.7%
Developed Growth	MSCI EAFE/World ex-U.S. Growth	-	0.0%	2.9%	-2.9%
Developed Value	MSCI EAFE/World ex-U.S. Value	-	0.0%	2.9%	-2.9%
Emerging Markets Core	MSCI Emerging Markets	0.11	1.0%	2.6%	-1.6%
Emerging Markets Growth	MSCI Emerging Market Growth	-	0.0%	2.3%	-2.3%
Emerging Markets Value	MSCI Emerging Market Value	0.20	1.7%	2.3%	-0.6%
Small Cap Core	MSCI EAFE Small Cap	-	0.0%	2.9%	-2.9%
Alternative Investments		\$ 1.20	10.4%	12.0%	-1.6%
Vintage Year					

Detail Actual vs Target Allocation

Asset Class / Style	Benchmark	Market Value (\$ Billion)	Market Value to Total Fund (%)	Target to Total Fund (%)	Difference from Target (%)
Fixed Income		\$ 2.79	24.2%	24.0%	0.2%
Core		\$ 2.79	24.2%	19.0%	5.2%
Passive	Barclays Capital (BC) Aggregate	\$ -	0.0%	6.7%	-6.7%
Active		\$ 2.79	24.2%	12.3%	12.0%
Core	Barclays Capital (BC) Aggregate	-	0.0%	10.4%	-10.4%
Core Plus	Barclays Capital (BC) Universal	2.54	22.1%	0.0%	22.1%
Intermediate Core	BC U.S. Govt/Credit Intermediate	0.25	2.1%	1.9%	0.2%
Credit Opportunities		\$ -	0.0%	5.0%	-5.0%
U.S. High Yield	BC U.S. High Yield 2% Capped	-	0.0%	2.8%	-2.8%
Emerging Market Debt	JP Morgan - EMBI Global Diversified	-	0.0%	1.8%	-1.8%
Leveraged Loans/Opp. Credits	JP Morgan - EMBI Global Diversified	-	0.0%	0.4%	-0.4%
Real Assets		\$ 0.68	5.9%	10.0%	-4.1%
Public Real Assets		\$ -	0.0%	5.0%	-5.0%
TIPS	BC U.S. TIPS	-	0.0%	3.0%	-3.0%
REITS	Wilshire REIT	-	0.0%	0.5%	-0.5%
Commodities	S&P-GSCI Total Index	-	0.0%	1.0%	-1.0%
Multi Asset Real Assets	CPI + 5%	-	0.0%	0.5%	-0.5%
Private Real Estate		\$ 0.68	5.9%	5.0%	0.9%
Cash		\$ 0.10	0.9%	1.0%	-0.1%
TOTAL PORTFOLIO		\$ 11.51	100.0%	100.0%	0.0%

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Fund Performance

LACERS Total Fund

(Returns are Net of Fees)

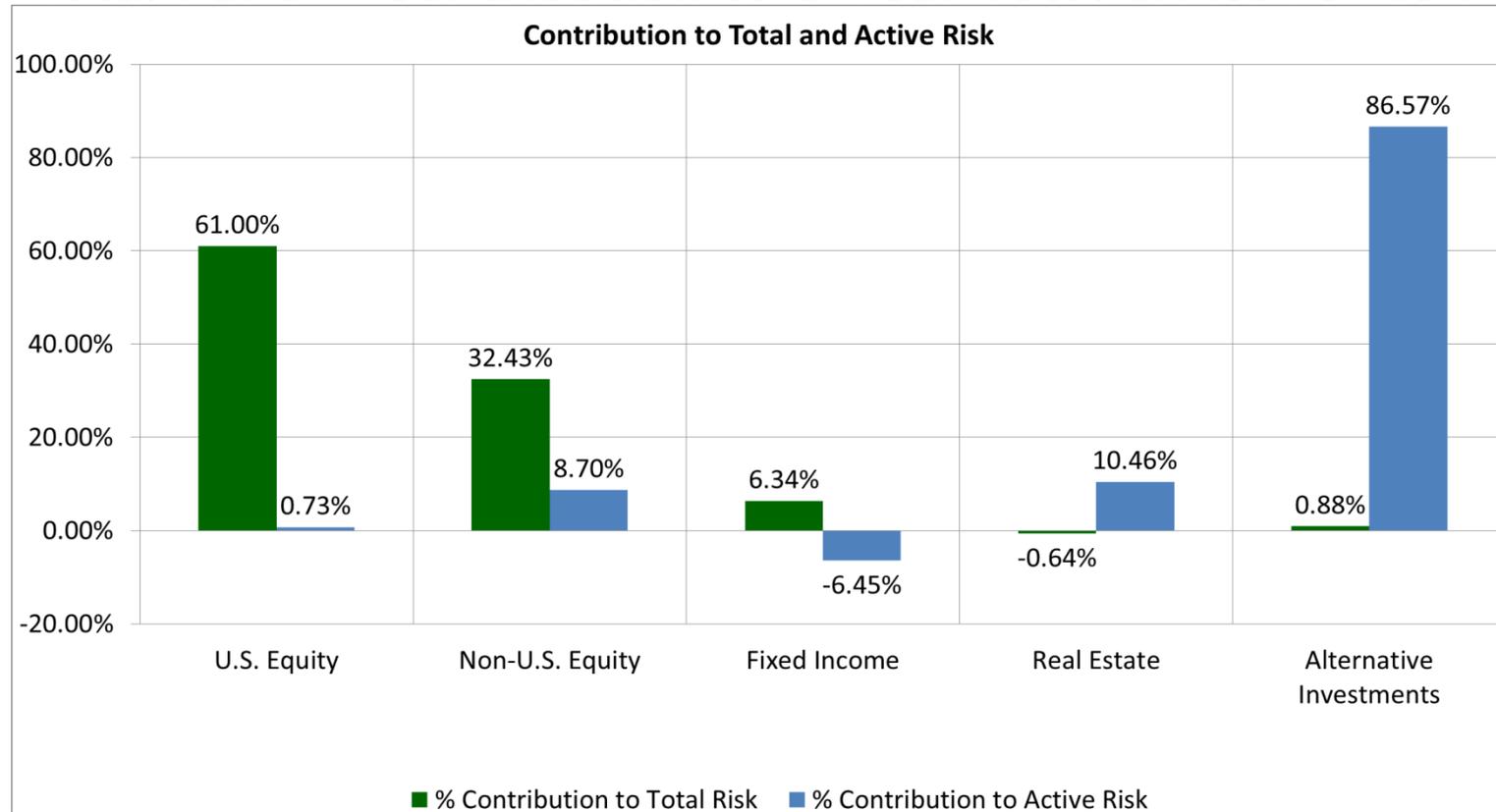
	Market Value (\$million)	% to Total Fund	Current Quarter	One Year	Three Years	Five Years	Ten Years	Fifteen Years ¹	Since Inception ¹	5 Year Tracking Error
LACERS Master Trust	\$ 11,510	100.0%	2.5	14.3	9.0	2.1	7.9	6.3	8.1	2.5
<i>Policy Benchmark</i>			2.2	14.3	9.4	2.8	8.0	6.4	8.1	
Excess Return			0.3	0.0	-0.4	-0.7	-0.1	-0.1	0.0	
U.S. Equity	\$ 4,223	36.7%	0.7	16.4	10.9	1.7	7.8	5.4	9.3	1.4
<i>Russell 3000</i>			0.3	16.4	11.2	2.0	7.7	4.2	7.9	
Excess Return			0.4	0.0	-0.3	-0.3	0.1	1.2	1.4	
Non-U.S. Equity	\$ 2,520	21.9%	6.3	18.4	4.3	-2.5	9.5	5.2	4.8	1.6
<i>MSCI ACWI ex U.S.*</i>			5.9	16.8	3.9	-2.9	9.7	5.5	5.4	
Excess Return			0.4	1.6	0.4	0.4	-0.2	-0.3	-0.6	
Total Fixed Income	\$ 2,789	24.2%	1.2	8.5	7.9	7.4	6.7	7.0	7.5	2.7
<i>BC U.S. Universal *</i>			0.6	5.5	6.7	6.2	5.6	5.8	6.5	
Excess Return			0.6	3.0	1.2	1.2	1.1	1.2	1.0	
Private Real Estate **	\$ 684	5.9%	2.5	7.8	5.3	-7.8	2.4	4.9	5.8	10.3
<i>NCREIF Property Lagged + 100bps</i>			2.6	11.6	11.1	2.4	8.4	9.4	9.4	
Excess Return			-0.1	-3.8	-5.8	-10.2	-6.0	-4.5	-3.6	
Alternative Investments **	\$ 1,196	10.4%	4.0	15.2	14.8	5.3	12.9	10.8	9.8	20.2
<i>Russell 3000 + 300bps</i>			1.1	19.4	14.2	5.0	10.7	7.2	10.9	
Excess Return			2.9	-4.2	0.6	0.3	2.2	3.6	-1.1	

¹ Indicates gross returns since October 1994.

* Both the MS ACWI ex US and Barclays US Universal indices are historically blended with other indices.

** Due to the J-Curve effect in early stages of a fund's life, returns may lag prior to realization of proceeds in later years.

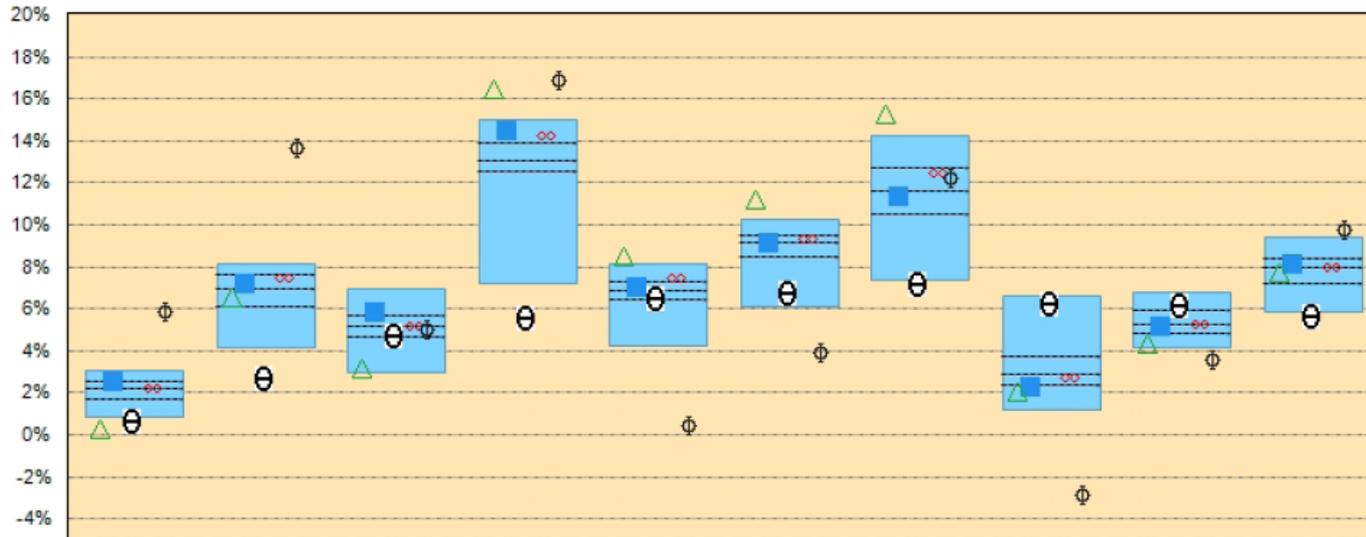
Total Fund – Contribution to 5-Year Total & Active Risk



- Public equities comprises 92% of total risk despite actual weighting of 59%
- Private markets (Real Estate and Private Equities) comprises 97% of active risk as it is difficult to separate active from 'beta' exposures in those asset classes
- Fixed Income provided reduction to active risk, but not total risk as desired
- Real Estate has provided modest total risk reduction

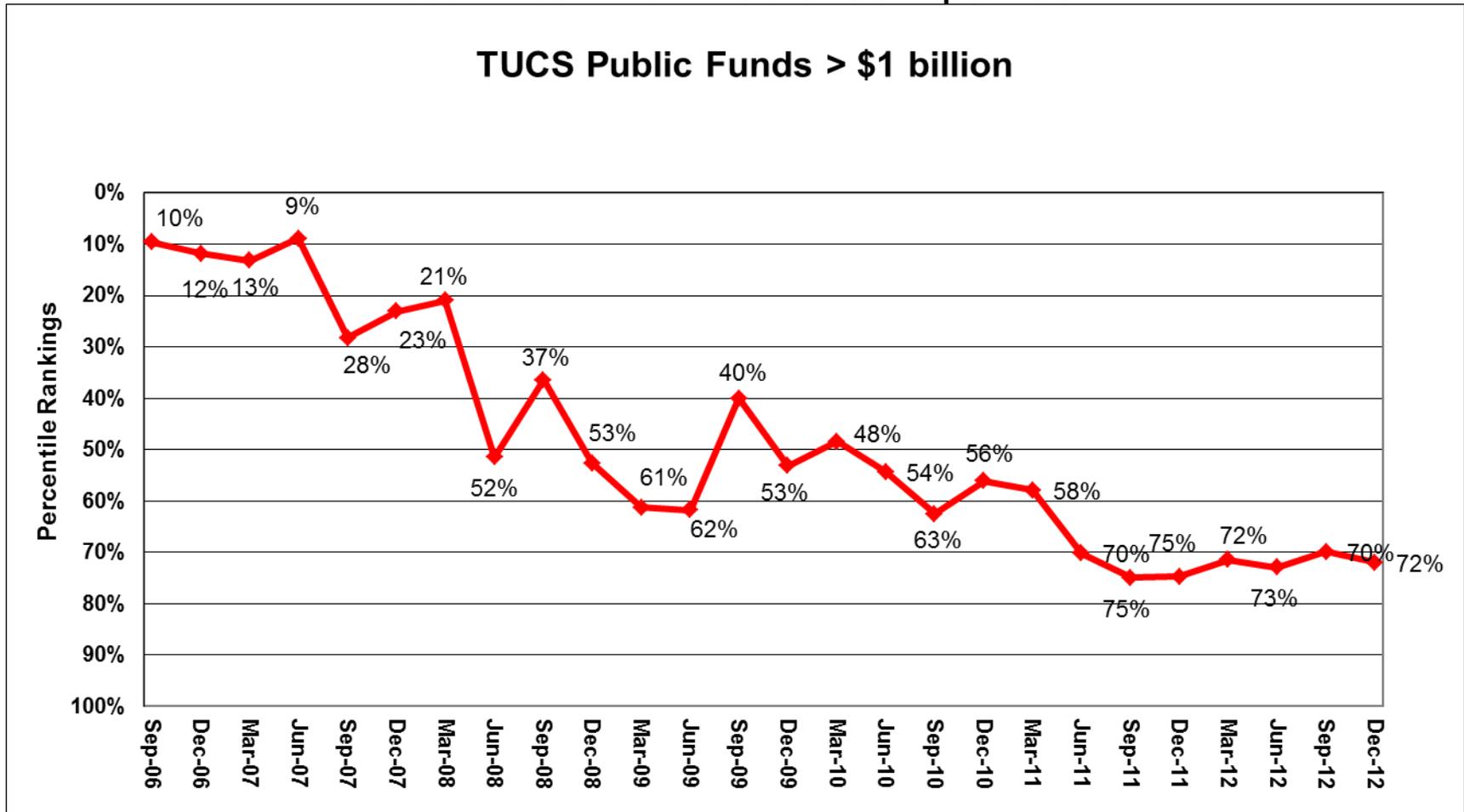
Trust Universe Comparison Service Performance Comparison

Total Returns of Master Trusts - Public : Plans > \$1 Billion
Cumulative Periods Ending : December 31, 2012



Percentile Rankings	1 Qtr	2 Qtrs	3 Qtrs	1 Year	2 Years	3 Years	4 Years	5 Years	7 Years	10 Years
5th	3.02	8.12	6.97	15.03	8.14	10.28	14.22	6.65	6.78	9.40
25th	2.52	7.62	5.70	13.86	7.32	9.52	12.69	3.72	5.89	8.37
50th	2.18	6.93	5.16	13.06	6.88	9.17	11.59	2.92	5.29	7.97
75th	1.72	6.08	4.66	12.51	6.40	8.49	10.53	2.39	4.81	7.24
95th	0.84	4.17	2.93	7.22	4.20	6.09	7.34	1.17	4.12	5.81
No. Of Obs	67	67	66	66	66	64	64	64	64	61
LosAngeles City	2.50 (27)	7.21 (41)	5.81 (22)	14.47 (14)	7.03 (40)	9.17 (50)	11.36 (56)	2.32 (83)	5.17 (60)	8.16 (36)
Policy Index LACERS	2.17 (51)	7.43 (27)	5.15 (51)	14.22 (16)	7.49 (23)	9.33 (32)	12.47 (31)	2.75 (54)	5.27 (50)	7.98 (48)
Russell 3000	0.25 (97)	6.51 (64)	3.16 (93)	16.43 (1)	8.45 (4)	11.21 (1)	15.26 (4)	2.04 (87)	4.34 (92)	7.68 (60)
MSCI World Ex US (N)	5.85 (1)	13.68 (1)	5.03 (57)	16.83 (1)	0.41 (100)	3.87 (97)	12.20 (37)	-2.89 (100)	3.54 (99)	9.74 (4)
Barclays US Univ Indx	0.58 (96)	2.59 (96)	4.64 (75)	5.53 (96)	6.46 (73)	6.69 (91)	7.16 (95)	6.19 (5)	6.06 (17)	5.59 (97)

Return to Risk Ratio Comparison



- Return to risk ratio comparison puts funds with different asset allocation objectives on even footing
- LACERS currently ranks 72nd percentile versus peers on return/risk ratio basis

U.S. Equity Managers

U.S. Equity Managers

(Returns are Net of Fees)

	Inception Date	Market Value (\$million)	% to Total U.S. Equity	Current Quarter	One Year	Three Years	Five Years	Ten Years	Since Inception ¹	5 Year Tracking Error
U.S. Equity	Oct-94	\$ 4,223	100.0%	0.7	16.4	10.9	1.7	7.8	9.3	1.4
<i>Russell 3000</i>				<i>0.3</i>	<i>16.4</i>	<i>11.2</i>	<i>2.0</i>	<i>7.7</i>	<i>7.9</i>	
Excess Return				0.4	0.0	-0.3	-0.3	0.1	1.4	
Aronson, Johnson & Ortiz <i>Russell 1000 Value</i>	Oct-01	\$ 434	10.3%	0.9	17.6	11.8	1.4	8.4	6.9	3.3
				<i>1.5</i>	<i>17.5</i>	<i>10.9</i>	<i>0.6</i>	<i>7.4</i>	<i>5.7</i>	
Excess Return				-0.6	0.1	0.9	0.8	1.0	1.2	
Blackrock R1000 Value (Passive) <i>Russell 1000 Value</i>	Dec-98	\$ 501	11.9%	1.5	17.4	10.9	0.7	7.5	4.6	0.1
				<i>1.5</i>	<i>17.5</i>	<i>10.9</i>	<i>0.6</i>	<i>7.4</i>	<i>4.6</i>	
Excess Return				0.0	-0.1	0.0	0.1	0.1	0.0	
Thomson Horstmann <i>Russell 2000</i>	Oct-95	\$ 249	5.9%	2.4	17.9	11.8	2.6	9.3	10.0	6.6
				<i>1.9</i>	<i>16.4</i>	<i>12.3</i>	<i>3.6</i>	<i>9.7</i>	<i>7.8</i>	
Excess Return				0.5	1.5	-0.5	-1.0	-0.4	2.2	
Franklin Advisers <i>Russell 2000 Growth</i>	Sep-94	\$ 194	4.6%	1.5	10.4	14.1	2.5	9.0	8.3	4.9
				<i>0.5</i>	<i>14.6</i>	<i>12.8</i>	<i>3.5</i>	<i>9.8</i>	<i>6.1</i>	
Excess Return				1.0	-4.2	1.3	-1.0	-0.8	2.2	
Sit Investments <i>Russell 2000 Growth</i>	Jan-01	\$ 193	4.6%	1.3	14.8	13.6	2.4	9.9	3.5	6.0
				<i>0.5</i>	<i>14.6</i>	<i>12.8</i>	<i>3.5</i>	<i>9.8</i>	<i>3.4</i>	
Excess Return				0.8	0.2	0.8	-1.1	0.1	0.1	
Donald Smith & Co. <i>Russell 2000 Value</i>	Feb-06	\$ 100	2.4%	5.7	16.1	8.8	4.7	--	5.1	9.5
				<i>3.2</i>	<i>18.1</i>	<i>11.6</i>	<i>3.6</i>	--	<i>3.0</i>	
Excess Return				2.5	-2.0	-2.8	1.1	--	2.1	
PanAgora Asset Management <i>Russell 2000 Value</i>	Feb-06	\$ 175	4.1%	4.9	19.5	15.9	4.8	--	2.6	3.1
				<i>3.2</i>	<i>18.1</i>	<i>11.6</i>	<i>3.6</i>	--	<i>3.0</i>	
Excess Return				1.7	1.4	4.3	1.2	--	-0.4	

¹ Indicates gross returns

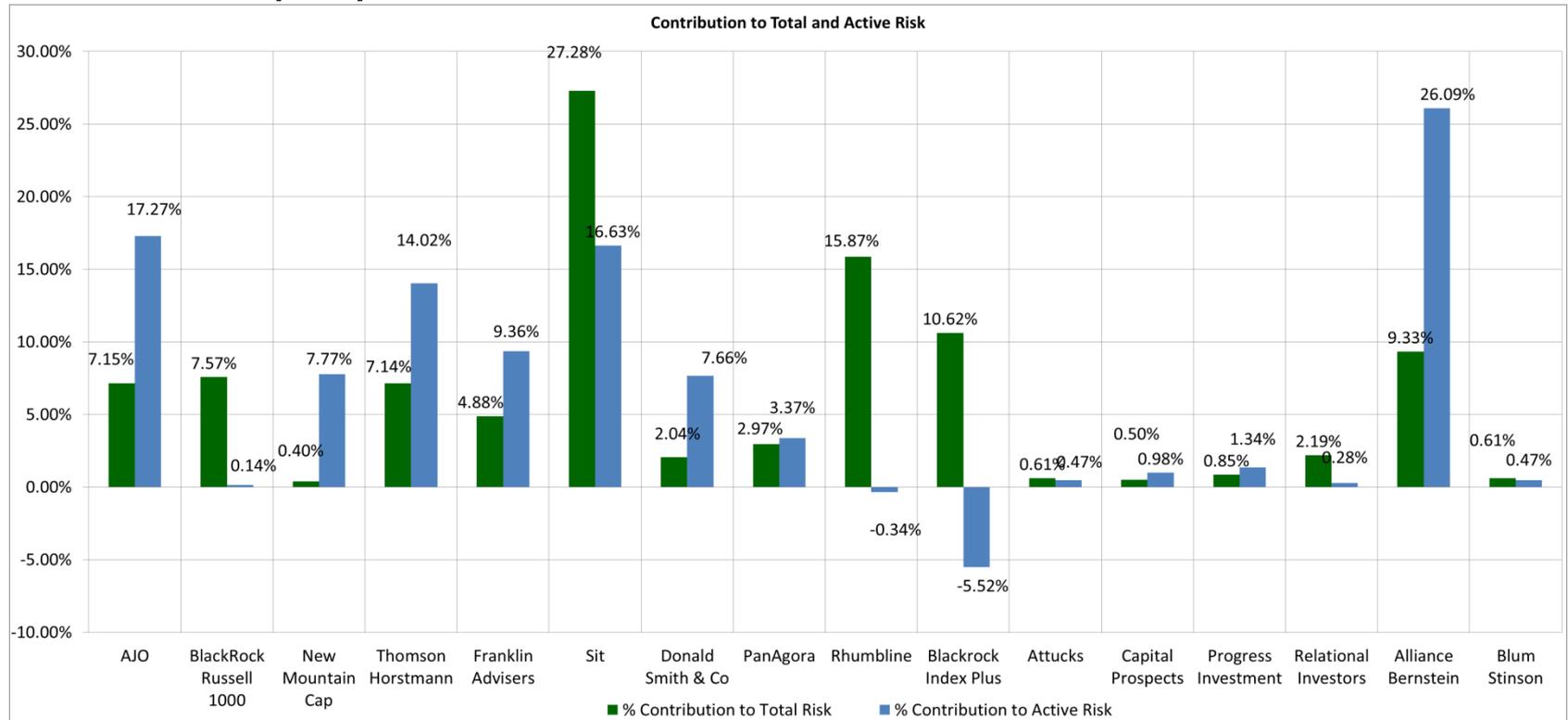
U.S. Equity Managers

(Returns are Net of Fees)

	Inception Date	Market Value (\$million)	% to Total U.S. Equity	Current Quarter	One Year	Three Years	Five Years	Ten Years	Since Inception ¹	5 Year Tracking Error
New Mountain Cap Group <i>Russell Midcap Blend</i>	Apr-08	\$ 60	1.4%	1.7	11.1	6.4	--	--	3.9	--
Excess Return				2.9	17.3	9.2	--	--	1.9	
				-1.2	-6.2	-2.8	--	--	2.0	
Rhumblin Advisors (Passive) <i>S&P 500</i>	Feb-93	\$ 730	17.3%	-0.4	16.0	11.1	1.9	7.3	8.4	0.3
Excess Return				-0.4	16.0	10.9	1.7	7.1	8.2	
				0.0	0.0	0.2	0.2	0.2	0.2	
Blackrock S&P 500 Index Plus <i>S&P 500</i>	Feb-10	\$ 1,471	34.8%	-0.3	16.0	--	--	--	11.9	--
Excess Return				-0.4	16.0	--	--	--	11.6	
				0.1	0.0	--	--	--	0.3	
Manager-of-Manager Programs			2.8%							
Attucks <i>Russell 2000</i>	Nov-05	\$ 33	0.8%	2.3	14.4	11.9	2.8	--	4.6	3.3
Excess Return				1.9	16.4	12.3	3.6	--	4.7	
				0.4	-2.0	-0.4	-0.8	--	-0.1	
Capital Prospects <i>Russell 3000</i>	Dec-05	\$ 32	0.7%	1.5	15.6	10.4	0.9	--	3.9	2.8
Excess Return				0.3	16.4	11.2	2.0	--	4.3	
				1.2	-0.8	-0.8	-1.1	--	-0.4	
Progress Investment <i>Russell 3000</i>	Oct-06	\$ 52	1.2%	0.4	14.3	8.3	-0.2	--	1.7	2.5
Excess Return				0.3	16.4	11.2	2.0	--	3.0	
				0.1	-2.1	-2.9	-2.2	--	-1.3	

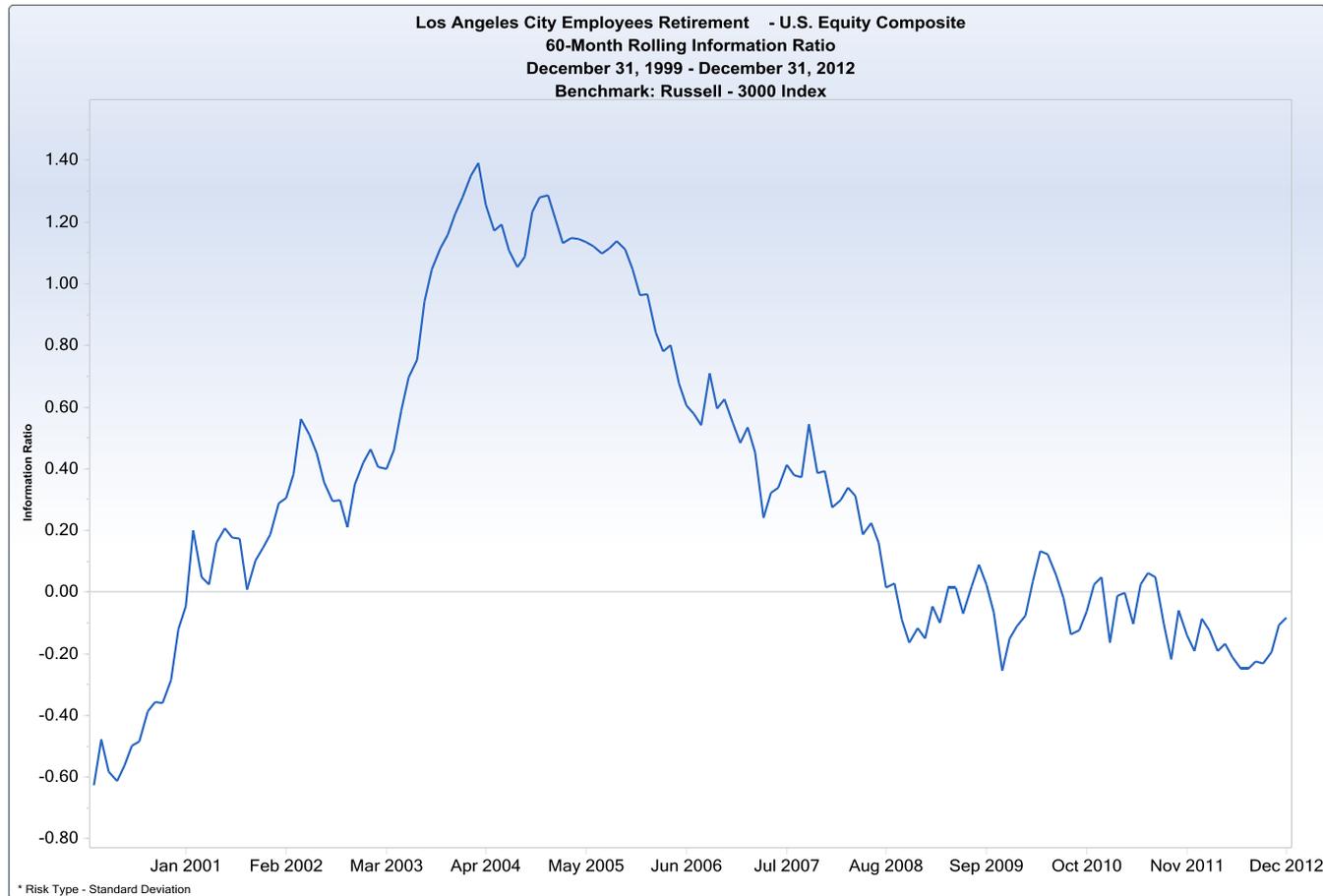
¹ Indicates gross returns

U.S. Equity – Contribution to 5-Year Total & Active Risk



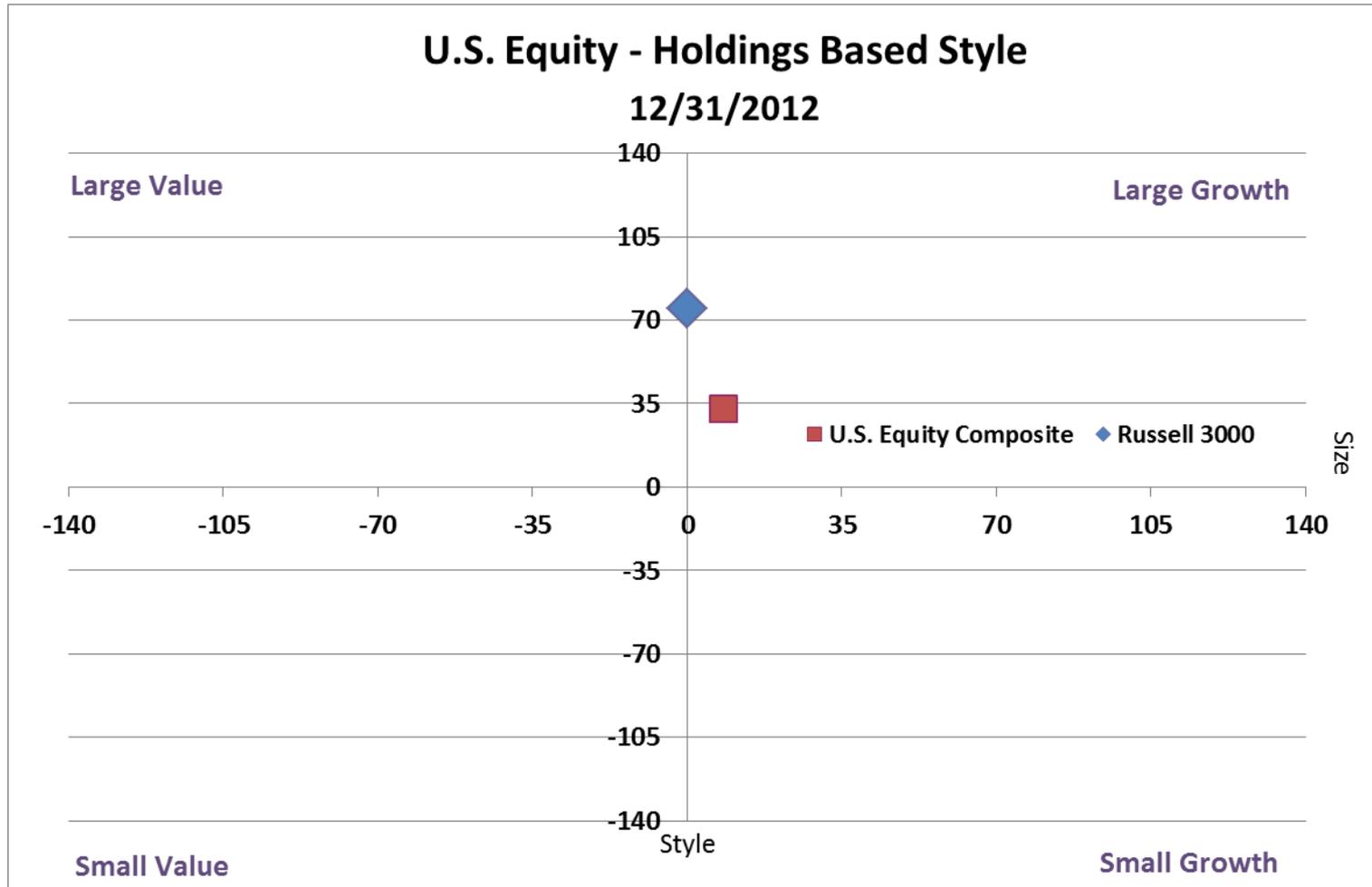
- Over last 5-years, Alliance Bernstein (now terminated) was largest contributor to active risk
- Most managers provided contribution to total risk within a reasonable range of their portfolio weights, which is desirable. Exceptions were: Alliance and Sit.
- Additionally, most managers provided contribution to active risk in line with or below their respective contribution to total risk. Exceptions were AJO, Donald Smith, Blum, New Mountain, Thomson Horstmann, and Alliance Bernstein

5-Year Rolling Risk-Adjusted Active Returns



- Active returns are returns earned over/(under) benchmark return
- For the past five years, LACERS' information ratio showed mixed results, but it is trending upward

Risk-adjusted active returns are referred to as "Information Ratio". Information Ratio = Excess return (alpha) / Excess risk (tracking error)



- LACERS U.S. Equity Portfolio exhibits significant smaller cap and modest growth bias versus Russell 3000 benchmark
- As large cap stocks currently outperforming small cap stocks and value stocks outperformed growth, this bias is a source for underperformance versus benchmark

MANAGER REPORT CARD¹

U.S. Managers	Inception Date	Mandate	Current Quarter		One Year		Three Years		Five Years		Since Inception	Comments ²
			I	U	I	U	I	U	I	U	I	
➤ Aronson, Johnson & Ortiz	Oct-01	Large Cap Value	✗	✗	✓	✓	✓	✓	✓	✗	✓	Performance satisfactory.
➤ Thomson Horstmann	Oct-95	Small Cap	✓	✓	✓	✓	✗	✗	✗	✗	✓	Performance mixed. Monitoring manager.
➤ Franklin Advisers	Sep-94	Small Cap Growth	✓	✓	✗	✗	✓	✓	✗	✗	✓	Performance mixed. Monitoring manager.
➤ Sit Investments	Jan-01	Small Cap Growth	✓	=	✓	✗	✓	✓	✗	✗	✓	Performance mixed. Monitoring manager.
➤ Donald Smith	Feb-06	Small Cap Value	✓	✓	✗	=	✗	✗	✓	✗	✓	Performance mixed. Monitoring manager.
➤ PanAgora	Feb-06	Small Cap Value	✓	✓	✓	✓	✓	✓	✓	✗	✗	Performance satisfactory; removed from "Watch" list on 11/12.
➤ New Mountain Cap Grp	Mar-08	Corp Gov	✗	n/a	✗	n/a	✗	n/a	n/a	n/a	✓	Limited track record.
➤ Attucks	Nov-05	Fund of Funds	✓	n/a	✗	n/a	✗	n/a	✗	n/a	✗	"On Watch" since 6/11 - performance.
➤ Capital Prospects	Dec-05	Fund of Funds	✓	n/a	✗	n/a	✗	n/a	✗	n/a	✗	"On Watch" since 6/11 - performance.
➤ Progress	Oct-06	Fund of Funds	✓	n/a	✗	n/a	✗	n/a	✗	n/a	✗	"On Watch" since 10/09 - performance.
➤ BlackRock R1000 Value	Dec-98	R1000 Value Index	=	✗	✗	✓	=	✓	✓	✗	=	Performance satisfactory.
➤ BlackRock S&P 500 Index Plus	Feb-10	S&P 500 Index	✓	✗	=	✓	n/a	n/a	n/a	n/a	✓	Limited track record.
➤ Rhumblin Advisors	Mar-93	S&P 500 Index	=	✗	=	✓	✓	✓	✓	✗	✓	Performance satisfactory.

¹ Current Quarter, 1-Yr, 3-Yrs, and 5-Yrs returns are net of fees. Since Inception returns are gross of fee.

² Managers are placed on the Watch List for concerns with organization, process, and performance. Managers are normally on the Watch List for 6 months though can be longer if manager issues still remain but not severe enough to warrant contract termination recommendation.

LEGEND			
✓	outperformed index	I	index
✗	underperformed index	U	universe median
=	equal to index		

Aronson, Johnson & Ortiz

Mandate: Large Cap Value

Benchmark: Russell 1000 Value

Strategy

Aronson invests in U.S. stocks with large market caps, low P/E ratios and lower historical earnings per share that are expected to increase.

Performance

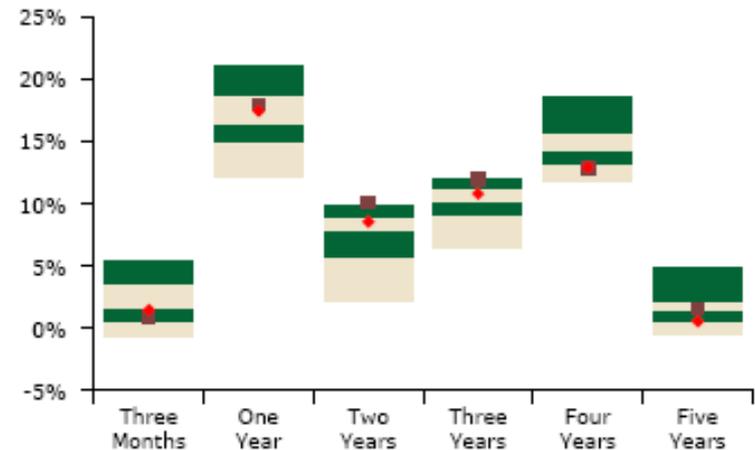
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Aronson, Johnson &	0.9	17.6	9.9	11.8	1.4	6.9	Oct-2001
Russell 1000 Value	1.5	17.5	8.6	10.9	0.6	5.7	
<i>Excess Return</i>	<i>(0.6)</i>	<i>0.1</i>	<i>1.3</i>	<i>0.9</i>	<i>0.8</i>	<i>1.2</i>	

Objective: Outperform the benchmark by 200 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Aronson, Johnson & Ortiz Rank	1.0	18.0	10.2	12.1	12.9	1.6
◆ Russell 1000 Value Rank	1.5	17.5	8.6	10.9	13.0	0.6

10th Percentile	5.4	21.1	9.9	12.1	18.6	4.8
1st Quartile	3.6	18.7	9.1	11.4	15.8	2.3
Median	1.7	16.5	7.9	10.3	14.3	1.6
3rd Quartile	0.6	15.1	5.7	9.1	13.2	0.7
90th Percentile	(0.7)	12.1	2.3	6.5	11.8	(0.5)

Number Of Observations	225	203	169	144	123	105
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Thomson, Horstmann & Bryant

Mandate: Small Cap

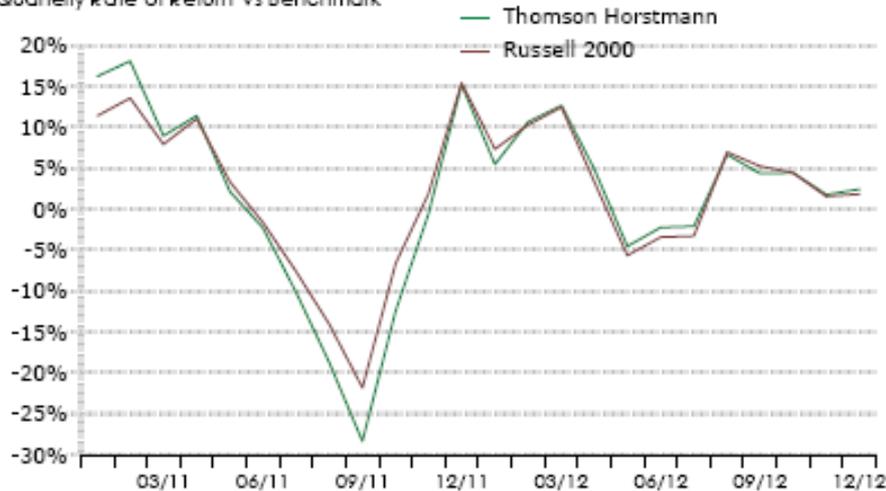
Benchmark: Russell 2000

Strategy

Thomson invests in U.S. stocks with small market caps and low P/E ratios.

Performance

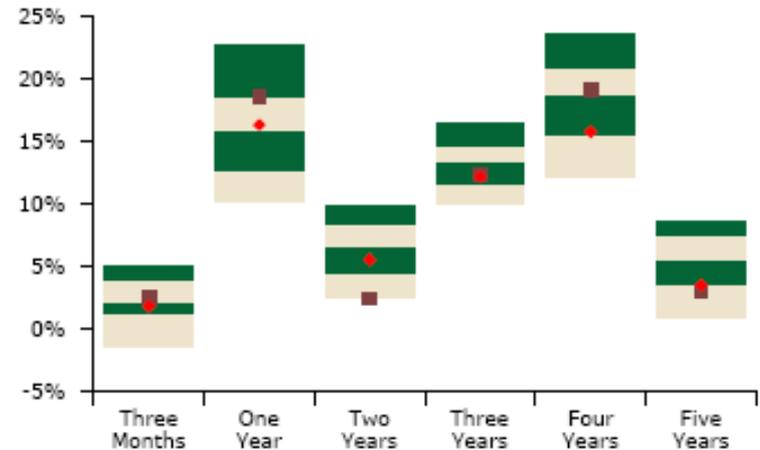
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Thomson Horstmann	2.4	17.9	1.8	11.8	2.6	10.0	Oct-1995
Russell 2000	1.9	16.4	5.6	12.3	3.6	7.8	
<i>Excess Return</i>	0.5	1.5	(3.8)	(0.5)	(1.0)	2.2	

Objective: Outperform the benchmark by 250 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Thomson Horstmann	2.6	18.6	2.5	12.4	19.2	3.1
Rank	46	26	92	66	45	82
◆ Russell 2000	1.9	16.4	5.6	12.3	15.8	3.6
Rank	59	45	65	70	74	80
10th Percentile	5.0	22.7	9.8	16.4	23.5	8.6
1st Quartile	3.9	18.7	8.4	14.7	20.8	7.6
Median	2.2	16.0	6.6	13.4	18.8	5.6
3rd Quartile	1.3	12.7	4.6	11.6	15.6	3.7
90th Percentile	(1.4)	10.2	2.6	10.1	12.3	0.9
Number Of Observations	174	163	138	117	119	97

Franklin Advisers

Mandate: Small Cap Growth

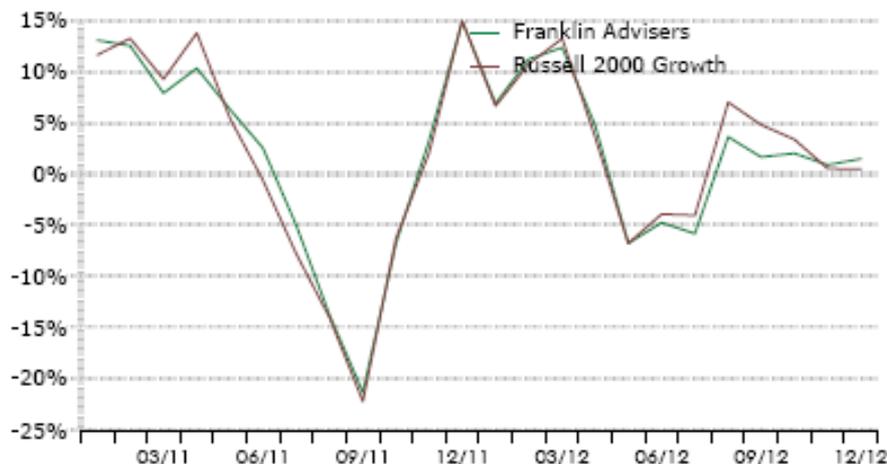
Benchmark: Russell 2000 Growth

Strategy

Franklin invests in U.S. stocks with small market caps, low P/E ratios and earnings per share that are expected to increase at rates much greater than the overall market.

Performance

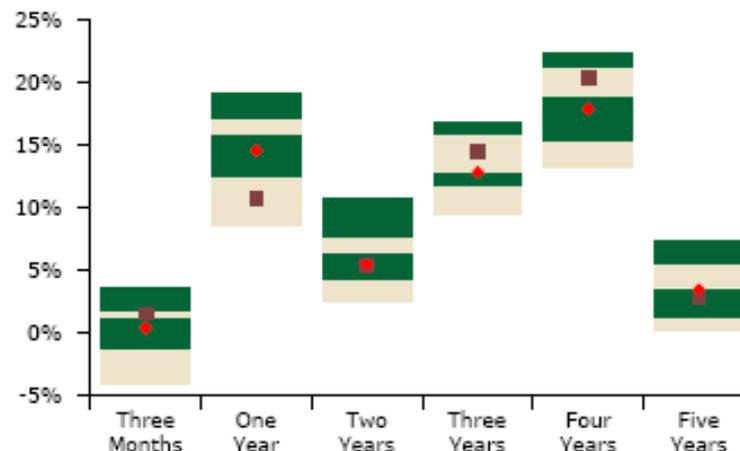
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Franklin Advisers	1.5	10.4	5.1	14.1	2.5	8.3	Sep-1994
Russell 2000 Growth	0.5	14.6	5.5	12.8	3.5	6.1	
Excess Return	1.0	(4.2)	(0.4)	1.3	(1.0)	2.2	

Objective: Outperform the benchmark by 200 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ FranklinAdvisers	1.6	10.8	5.4	14.5	20.4	2.8
Rank	41	81	68	42	38	59
◆ Russell 2000 Growth	0.5	14.6	5.5	12.8	17.9	3.5
Rank	67	58	68	51	61	54
10th Percentile	3.6	19.1	10.8	16.9	22.3	7.4
1st Quartile	1.8	17.2	7.8	15.9	21.3	5.6
Median	1.3	15.9	6.5	12.8	18.9	3.6
3rd Quartile	(1.3)	12.5	4.4	11.8	15.4	1.3
90th Percentile	(4.0)	8.6	2.6	9.6	13.2	0.3
Number Of Observations	59	60	51	32	39	35

Sit Investments

Mandate: Small Cap Growth
Benchmark: Russell 2000 Growth

Strategy

SIT invests in U.S. stocks with small market caps, low P/E ratios and earnings per share that are expected to increase at rates much greater than the overall market.

Performance

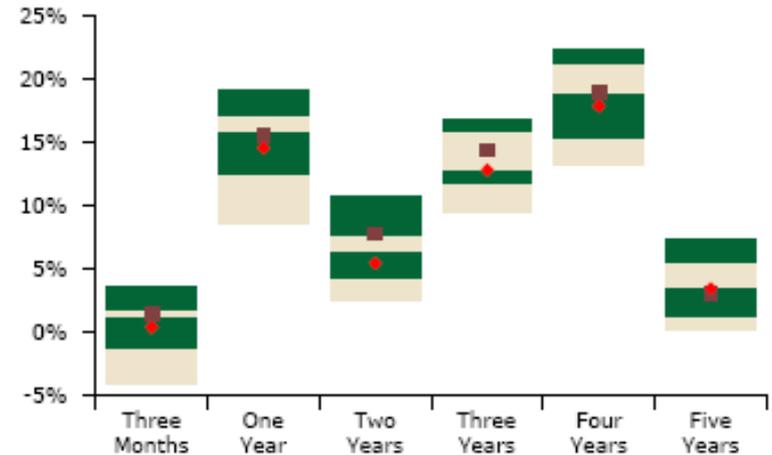
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Sit Investments	1.3	14.8	7.1	13.6	2.4	3.5	Jan-2001
Russell 2000 Growth	0.5	14.6	5.5	12.8	3.5	3.4	
<i>Excess Return</i>	0.8	0.2	1.6	0.8	(1.1)	0.1	

Objective: Outperform the benchmark by 300-450 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Sit Investments	1.5	15.6	7.8	14.4	19.0	3.1
Rank	41	54	25	44	49	56
◆ Russell 2000 Growth	0.5	14.6	5.5	12.8	17.9	3.5
Rank	67	58	68	51	61	54
10th Percentile	3.6	19.1	10.8	16.9	22.3	7.4
1st Quartile	1.8	17.2	7.8	15.9	21.3	5.6
Median	1.3	15.9	6.5	12.8	18.9	3.6
3rd Quartile	(1.3)	12.5	4.4	11.8	15.4	1.3
90th Percentile	(4.0)	8.6	2.6	9.6	13.2	0.3
Number Of Observations	59	60	51	32	39	35

Donald Smith & Co.

Mandate: Small Cap Value

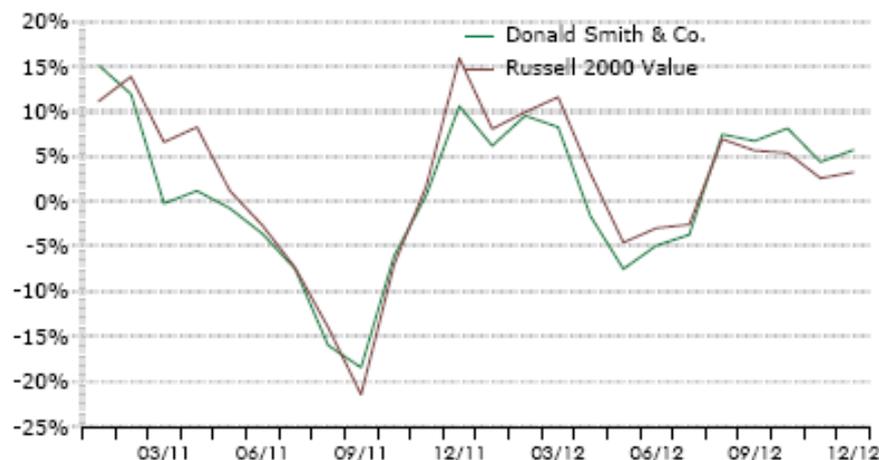
Benchmark: Russell 2000 Value

Strategy

Donald Smith invests in U.S. stocks with small market caps, low P/E ratios and lower historical earnings per share that are expected to increase.

Performance

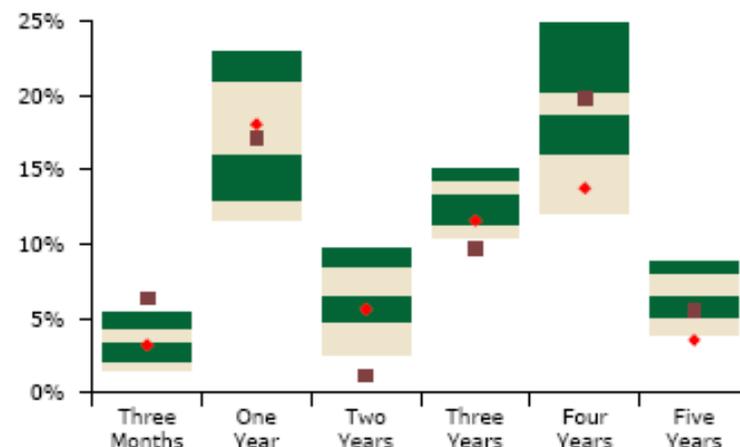
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Donald Smith & Co.	5.7	16.1	0.3	8.8	4.7	5.1	Feb-2006
Russell 2000 Value	3.2	18.1	5.6	11.6	3.6	3.0	
<i>Excess Return</i>	2.5	(2.0)	(5.3)	(2.8)	1.1	2.1	

Objective: Outperform the benchmark by 300 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Donald Smith & Co.	6.4	17.1	1.2	9.7	19.8	5.6
Rank	1	42	95	95	31	65
◆ Russell 2000 Value	3.2	18.1	5.6	11.6	13.8	3.6
Rank	55	39	65	74	86	97
10th Percentile	5.4	22.9	9.7	15.0	24.9	8.9
1st Quartile	4.4	21.0	8.5	14.3	20.3	8.1
Median	3.5	16.1	6.6	13.4	18.8	6.6
3rd Quartile	2.1	13.0	4.9	11.4	16.1	5.0
90th Percentile	1.5	11.7	2.6	10.5	12.0	3.9
Number Of Observations	101	98	80	80	82	61

PanAgora Asset Management

Mandate: Small Cap Value

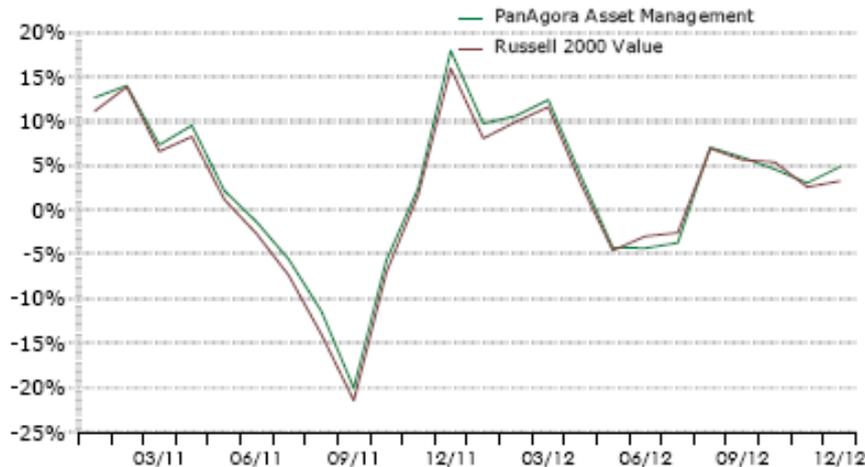
Benchmark: Russell 2000 Value

Strategy

PanAgora invests in U.S. stocks with small market caps, low P/E ratios and lower historical earnings per share that are expected to increase.

Performance

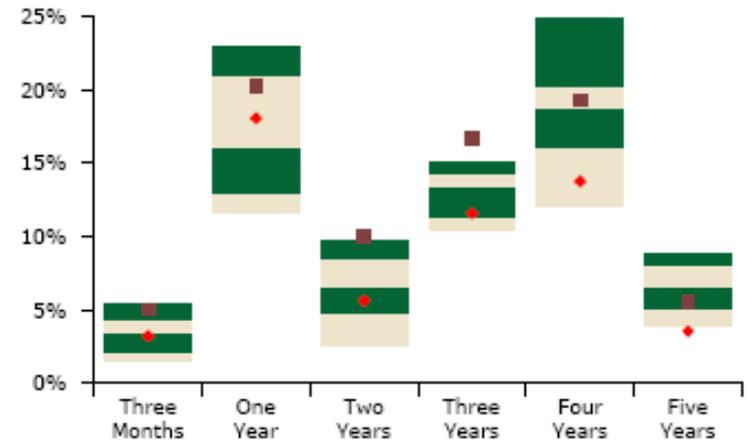
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
PanAgora Asset Mgmt	4.9	19.5	9.3	15.9	4.8	2.6	Feb-2006
Russell 2000 Value	3.2	18.1	5.6	11.6	3.6	3.0	
<i>Excess Return</i>	1.7	1.4	3.7	4.3	1.2	(0.4)	

Objective: Outperform the benchmark by 200 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ PanAgora Asset Mgmt	5.0	20.3	10.0	16.7	19.3	5.5
Rank	13	27	6	3	44	65
◆ Russell 2000 Value	3.2	18.1	5.6	11.6	13.8	3.6
Rank	55	39	65	74	86	97
10th Percentile	5.4	22.9	9.7	15.0	24.9	8.9
1st Quartile	4.4	21.0	8.5	14.3	20.3	8.1
Median	3.5	16.1	6.6	13.4	18.8	6.6
3rd Quartile	2.1	13.0	4.9	11.4	16.1	5.0
90th Percentile	1.5	11.7	2.6	10.5	12.0	3.9
Number Of Observations	101	98	80	80	82	61



LACERS
LOS ANGELES CITY EMPLOYEES'
RETIREMENT SYSTEM

Non-U.S. Equity Managers

Non-U.S. Equity Managers

(Returns are Net of Fees)

	Inception Date	Market Value (\$million)	% to Total Non-U.S. Equity	Current Quarter	One Year	Three Years	Five Years	Ten Years	Since Inception ¹	5 Year Tracking Error
Non-U.S. Equity	Oct-94	\$ 2,520	100.0%	6.3	18.4	4.3	-2.5	9.5	4.8	1.6
<i>MSCI ACWI ex U.S.*</i>				5.9	16.8	3.9	-2.9	9.7	5.4	
Excess Return				0.4	1.6	0.4	0.4	-0.2	-0.6	
Emerging Markets	Jun-12	\$ 311	12.4%	5.5	--	--	--	--	14.1	--
<i>MSCI Emerging Markets ND</i>				5.6	--	--	--	--	13.8	
Excess Return				-0.1	--	--	--	--	0.3	
Batterymarch	Sep-08	\$ 115	4.5%	6.4	15.7	1.6	--	--	9.2	--
<i>MSCI Emerging Markets ND</i>				5.6	18.2	4.7	--	--	10.1	
Excess Return				0.8	-2.5	-3.1	--	--	-0.9	
Boston Company	Jan-03	\$ 197	7.8%	5.1	16.1	1.5	-0.1	--	16.5	4.5
<i>MSCI Emerging Markets ND</i>				5.6	18.2	4.7	-0.9	--	16.7	
Excess Return				-0.5	-2.1	-3.2	0.8	--	-0.2	
Developed ex-U.S.	Jun-12	\$ 2,208	87.6%	6.4	--	--	--	--	14.6	--
<i>MSCI EAFE ND</i>				6.6	--	--	--	--	14.0	
Excess Return				-0.2	--	--	--	--	0.6	
Capital Guardian	May-96	\$ 454	18.0%	8.2	24.6	5.2	-3.2	8.5	8.7	2.9
<i>MSCI Europe</i>				7.0	19.1	3.3	-4.3	8.4	6.5	
Excess Return				1.2	5.5	1.9	1.1	0.1	2.2	
Daiwa	Dec-95	\$ 201	8.0%	6.7	13.9	3.2	-2.8	8.4	3.9	2.4
<i>MSCI Pacific *</i>				5.9	14.4	4.6	-2.0	8.0	0.7	
Excess Return				0.8	-0.5	-1.4	-0.8	0.4	3.2	
Franklin Templeton	Nov-91	\$ 240	9.5%	4.7	24.0	11.6	2.3	13.3	8.0	5.5
<i>MS AC Asia Pacific *</i>				5.9	16.8	5.1	-1.5	9.7	3.3	
Excess Return				-1.2	7.2	6.5	3.8	3.6	4.7	

¹ Indicates gross returns

* The MS ACWI ex U.S., MSCI Pacific, and MSCI AC Asia Pacific indices are historically blended with other indices.

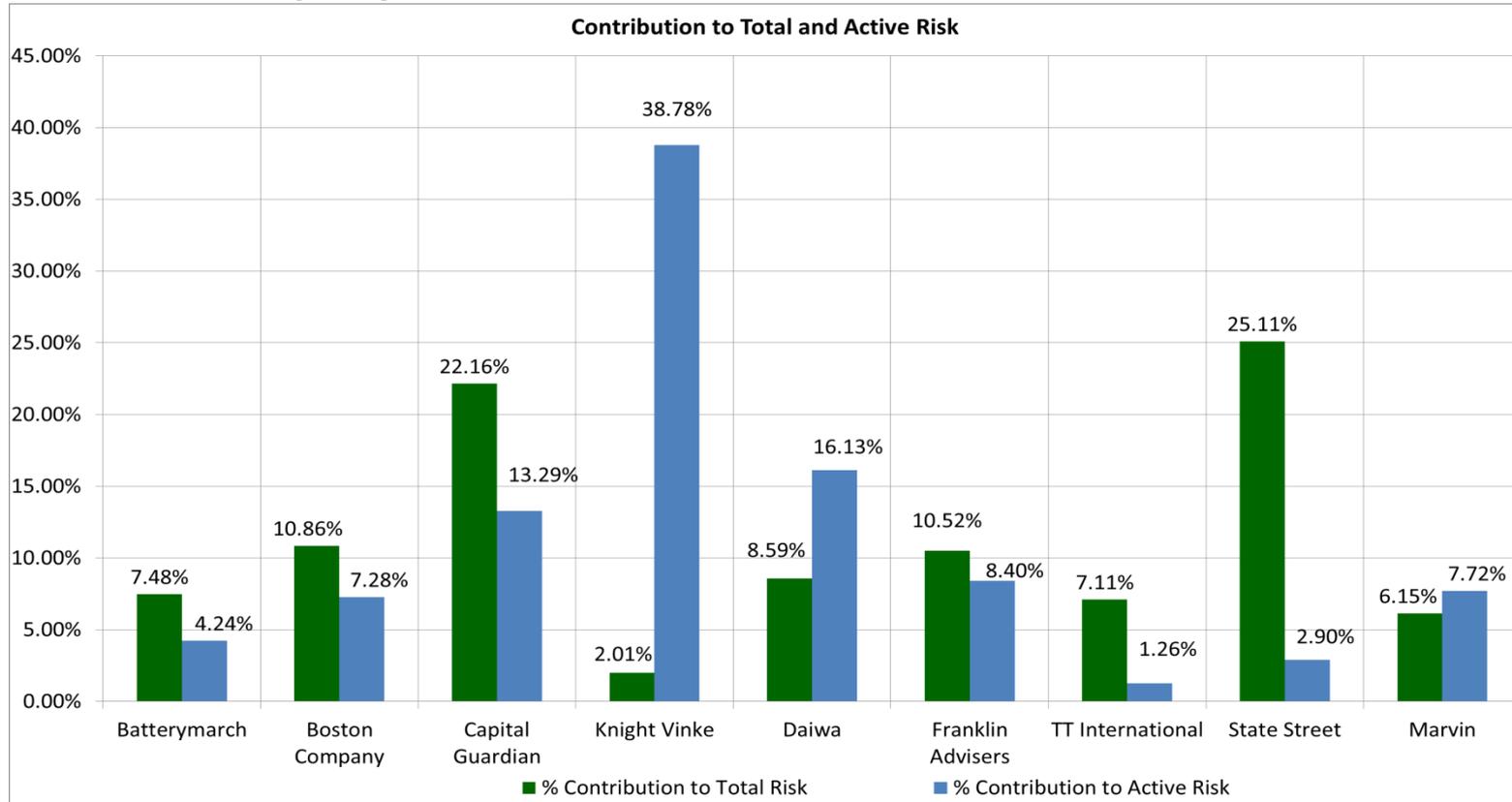
Non-U.S. Equity Managers

(Returns are Net of Fees)

	Inception Date	Market Value (\$million)	% to Total Non-U.S. Equity	Current Quarter	One Year	Three Years	Five Years	Ten Years	Since Inception ¹	5 Year Tracking Error
State Street (Passive) <i>MSCI World ex U.S.</i>	Aug-93	\$ 1,129	44.8%	5.8	17.0	4.3	-2.7	8.9	5.6	0.5
Excess Return				5.8	16.6	4.1	-3.1	8.6	4.9	
				0.0	0.4	0.2	0.4	0.3	0.7	
TT International <i>MSCI World ex U.S.</i>	May-01	\$ 134	5.3%	7.4	16.7	2.7	-5.9	7.2	3.8	4.3
Excess Return				5.9	16.4	3.7	-3.4	8.4	4.5	
				1.5	0.3	-1.0	-2.5	-1.2	-0.7	
Knight Vinke Asset <i>Knight Vinke 10%</i>	Apr-06	\$ 50	2.0%	9.1	8.9	-9.7	-11.3	--	-8.1	31.1
Excess Return				2.4	10.0	10.0	10.0	--	10.0	
				6.7	-1.1	-19.7	-21.3	--	-18.1	

¹ Indicates gross returns

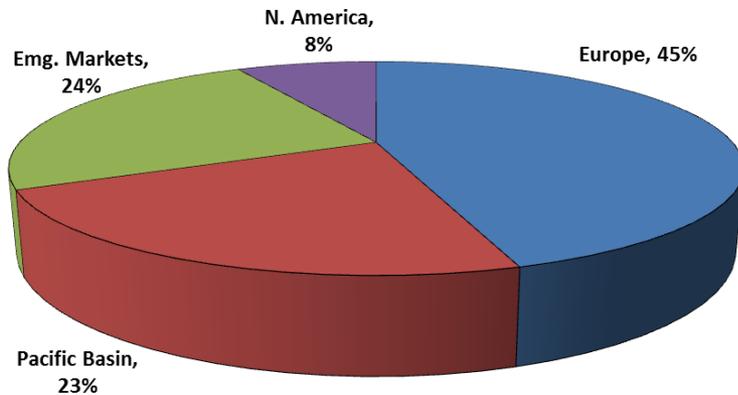
Non-U.S. Equity – Contribution to 5-Year Total & Active Risk



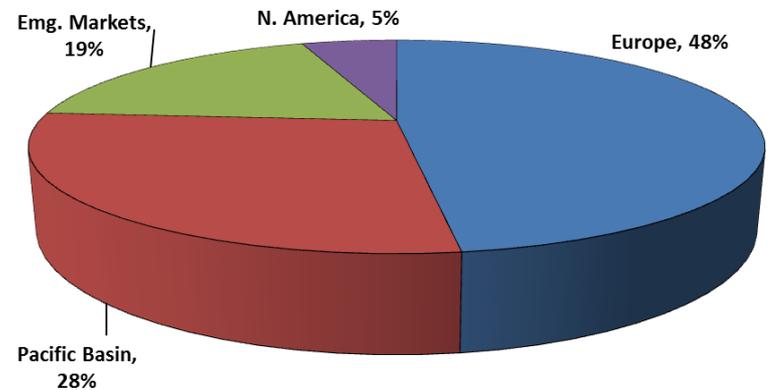
- Knight Vinke (now terminated) had small contribution to total risk due to its small weight, but large contribution to active risk due to large negative active return
- All managers have contributed to total risk in approximate proportion to their portfolio weights, which is positive

Country Allocation

Benchmark – MSCI ACWI x U.S. Index

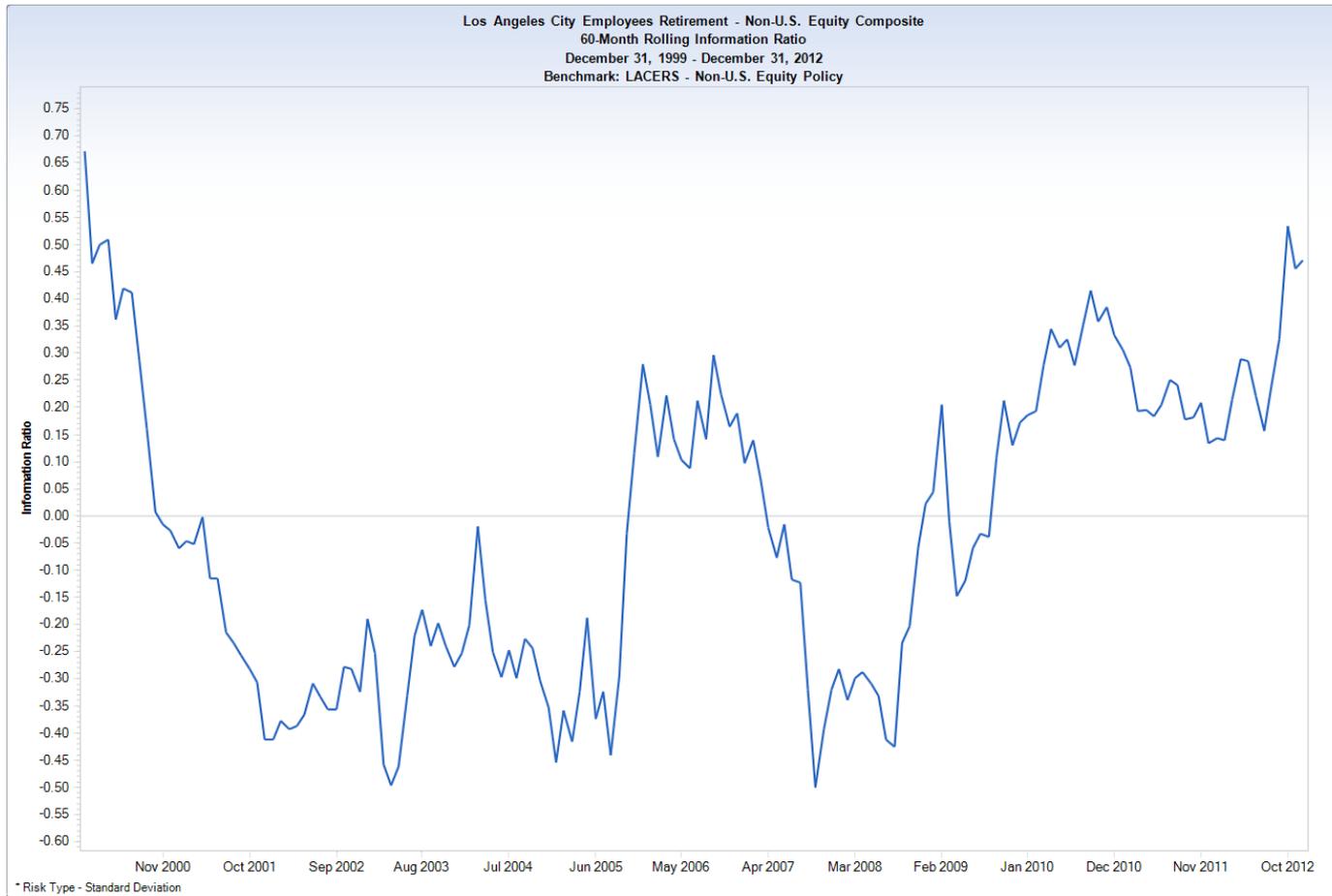


Non U.S. Equity Composite



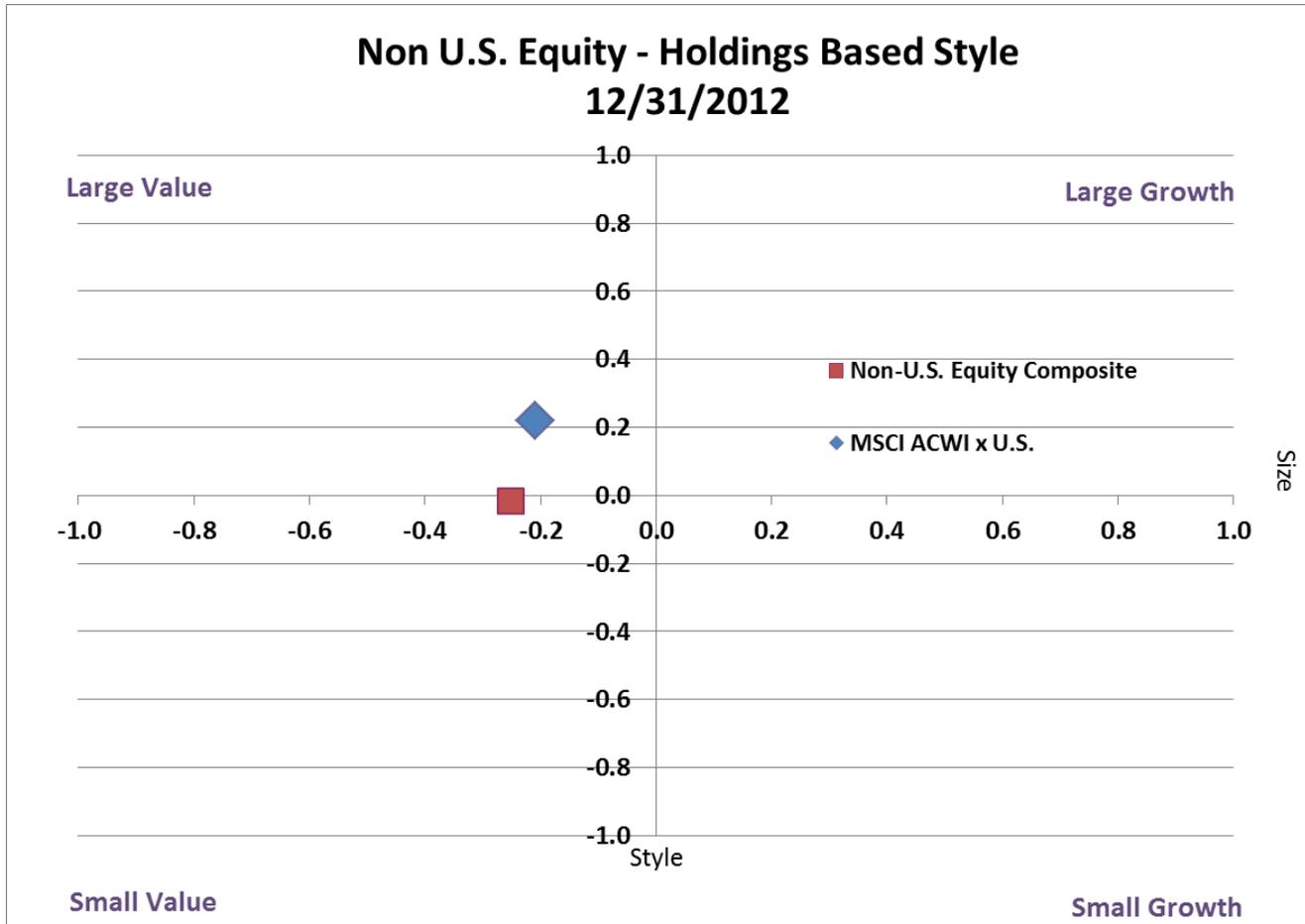
- As LACERS implements the new asset allocation, the geographic weightings of the Non-U.S. Equity Composite will become closer to the benchmark.

5-Year Rolling Risk-Adjusted Active Returns



- Active returns are returns earned over/(under) benchmark return
- Non-U.S. Equity's rolling information ratio has been steadily increasing for past 3 years

Risk-adjusted active returns are referred to as "Information Ratio". Information Ratio = Excess return (alpha) / Excess risk (tracking error)



- LACERS Non-U.S. Equity Portfolio has exhibited modest value bias compared to MSCI ACWI x U.S. index as well as small cap bias

MANAGER REPORT CARD¹

Non-U.S. Managers	Inception Date	Mandate	Current Quarter		One Year		Three Years		Five Years		Since Inception	Comments ²
			I	U	I	U	I	U	I	U	I	
➤ Batterymarch	Sep-08	Emerging Markets	✓	✓	✗	✗	✗	✗	n/a	n/a	✗	Performance improving. Monitoring manager.
➤ Boston Company	Jan-03	Emerging Markets	✗	✗	✗	✗	✗	✗	✓	=	✗	"On Watch" since 02/12 - performance lagging. Monitoring manager.
➤ Capital Guardian	May-96	Europe	✓	✓	✓	✓	✓	✗	✓	✗	✓	Performance satisfactory.
➤ Daiwa	Dec-95	Asia Pacific	✓	✓	✗	✗	✗	✗	✗	n/a	✓	"On Watch" since 10/11 - organization. Performance improving. Monitoring manager.
➤ Franklin Templeton	Nov-91	Asia Pacific	✗	✗	✓	✓	✓	✓	✓	n/a	✓	Performance satisfactory.
➤ TT International	May-01	Non-U.S. Developed	✓	✓	✓	✗	✗	✗	✗	✗	✗	"On Watch" since 01/09 - performance improving. Monitoring manager.
➤ State Street	Aug-93	Non-U.S. Developed Index	=	✗	✓	✗	✓	✗	✓	✗	✓	Performance satisfactory.
➤ Knight Vinke	Apr-06	Corp Gov - Europe	✓	n/a	✗	n/a	✗	n/a	✗	n/a	✗	In redemption process.

¹ Current Quarter, 1-Yr, 3-Yrs, and 5-Yrs returns are net of fees. Since Inception returns are gross of fee.

² Managers are placed on the Watch List for concerns with organization, process, and performance. Managers are normally on the Watch List for 6 months though can be longer if manager issues still remain but not severe enough to warrant contract termination recommendation.

LEGEND		
✓	outperformed index	I index
✗	underperformed index	U universe median
=	equal to index	

Batterymarch

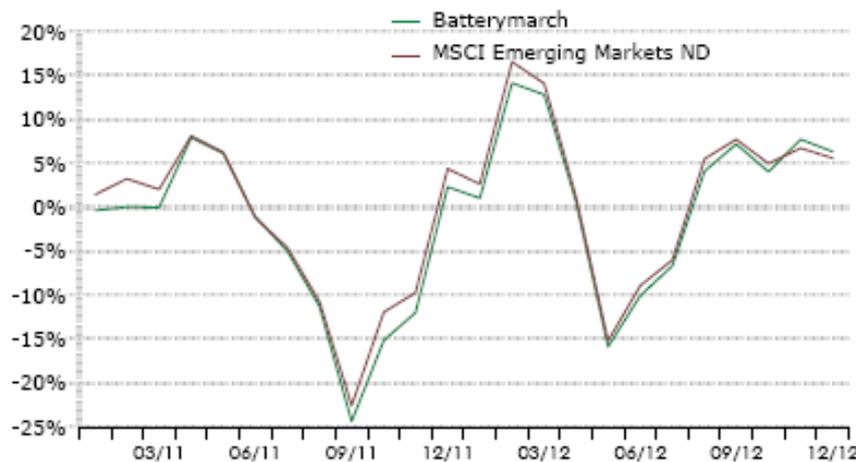
Mandate: Emerging Markets Equity
Benchmark: MSCI Emerging Markets ND

Strategy

Batterymarch invests in Non-U.S. stocks in emerging countries that are part of the MSCI Emerging Markets index.

Performance

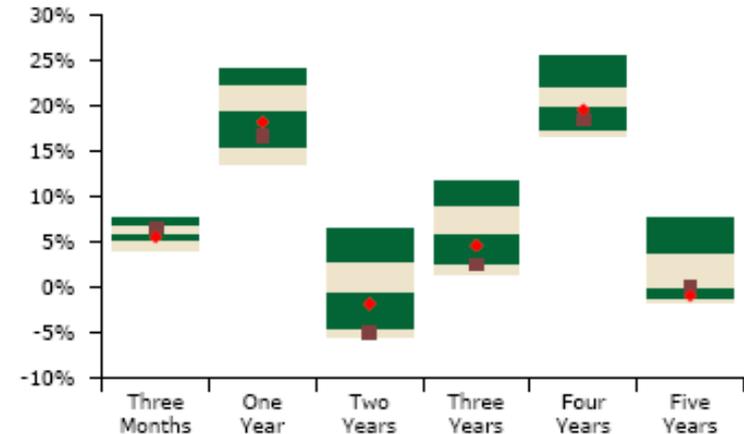
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Batterymarch	6.4	15.7	(5.8)	1.6	--	9.2	Sep-2008
MSCI Emerging Mkt	5.6	18.2	(1.8)	4.7	--	10.1	
<i>Excess Return</i>	0.8	(2.5)	(4.0)	(3.1)	--	(0.9)	

Objective: Outperform the benchmark by 300 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Batterymarch	6.6	16.7	(5.0)	2.6	18.6	--
Rank	40	67	77	77	66	
◆ MSCI Emerging Mkt	5.6	18.2	(1.8)	4.7	19.6	(0.9)
Rank	63	61	61	61	59	61
10th Percentile	7.7	24.1	6.4	11.8	25.6	7.6
1st Quartile	7.0	22.4	2.8	9.1	22.2	3.8
Median	6.1	19.5	(0.6)	6.0	20.1	(0.1)
3rd Quartile	5.2	15.6	(4.7)	2.6	17.3	(1.2)
90th Percentile	4.1	13.6	(5.3)	1.5	16.8	(1.7)
Number Of Observations	79	75	70	61	56	47

Boston Company

Mandate: Emerging Markets Equity

Benchmark: MSCI Emerging Markets ND

Strategy

Boston Co. invests in Non-U.S. stocks in emerging countries that are part of the MSCI Emerging Markets index.

Performance

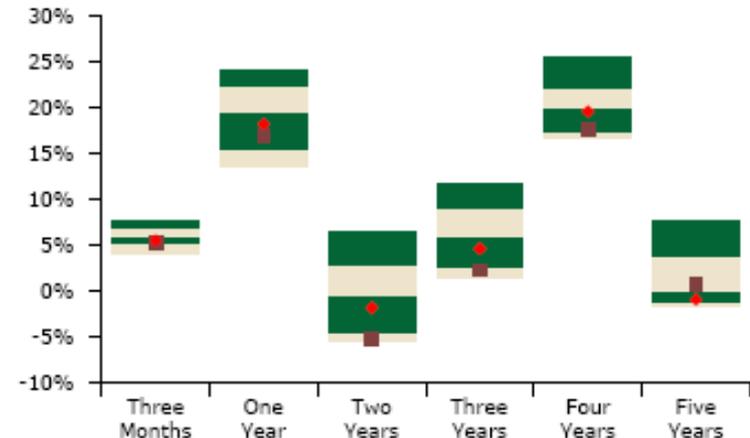
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Boston Company	5.1	16.1	(5.9)	1.5	(0.1)	16.5	Jan-2003
MSCI Emerging Mkt	5.6	18.2	(1.8)	4.7	(0.9)	16.7	
<i>Excess Return</i>	(0.5)	(2.1)	(4.1)	(3.2)	0.8	(0.2)	

Objective: Outperform the benchmark by 200-300 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Boston Company	5.2	16.9	(5.2)	2.3	17.7	0.7
Rank	76	65	82	79	71	40
◆ MSCI Emerging Mkt	5.6	18.2	(1.8)	4.7	19.6	(0.9)
Rank	63	61	61	61	59	61
10th Percentile	7.7	24.1	6.4	11.8	25.6	7.6
1st Quartile	7.0	22.4	2.8	9.1	22.2	3.8
Median	6.1	19.5	(0.6)	6.0	20.1	(0.1)
3rd Quartile	5.2	15.6	(4.7)	2.6	17.3	(1.2)
90th Percentile	4.1	13.6	(5.3)	1.5	16.8	(1.7)
Number Of Observations	79	75	70	61	56	47

Capital Guardian

Mandate: Europe Region Equity Manager

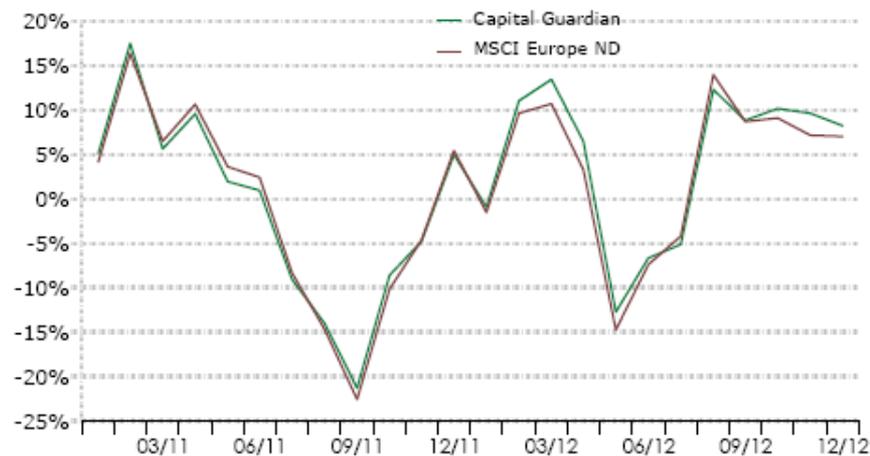
Benchmark: MSCI Europe ND

Strategy

Capital Guardian invests in Non-U.S. stocks across all developed European countries.

Performance

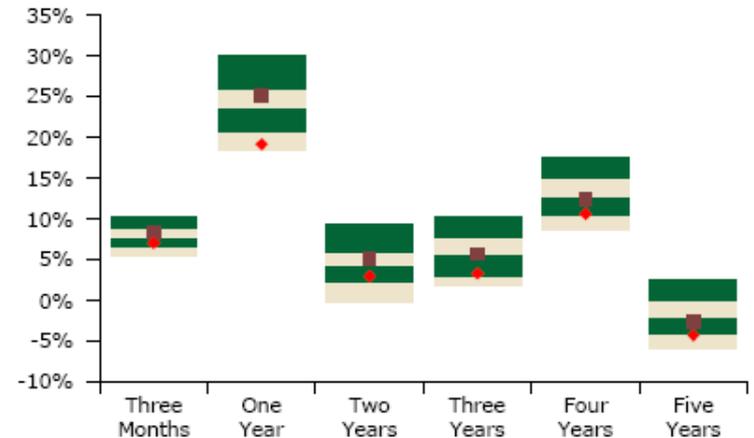
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Capital Guardian	8.2	24.6	4.7	5.2	(3.2)	8.7	May-1996
MSCI Europe ND	7.0	19.1	2.9	3.3	(4.3)	6.5	
<i>Excess Return</i>	1.2	5.5	1.8	1.9	1.1	2.2	

Objective: Outperform the benchmark by 200 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Capital Guardian	8.3	25.1	5.1	5.6	12.4	(2.8)
Rank	35	35	40	50	60	60
◆ MSCI Europe ND	7.0	19.1	2.9	3.2	10.6	(4.3)
Rank	70	90	65	75	75	80
10th Percentile	10.2	30.0	9.2	10.3	17.4	2.5
1st Quartile	8.8	26.0	5.8	7.6	14.9	(0.4)
Median	7.6	23.5	4.4	5.6	12.8	(2.4)
3rd Quartile	6.5	20.7	2.1	2.9	10.3	(4.3)
90th Percentile	5.5	18.5	(0.3)	1.8	8.5	(5.9)
Number Of Observations	122	122	117	116	107	100

Daiwa

Mandate: Pacific Basin Manager

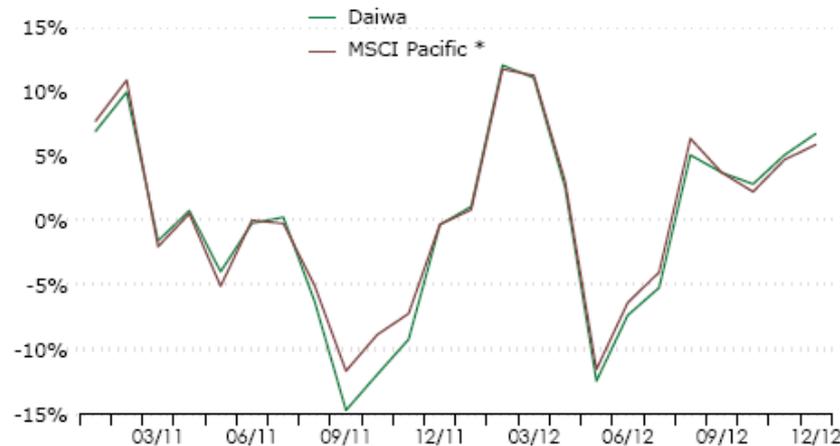
Benchmark: MSCI Pacific

Strategy

DAIWA invests in Non-U.S. stocks primarily in Japan and Australia. Investment opportunities in other Asian countries are also pursued.

Performance

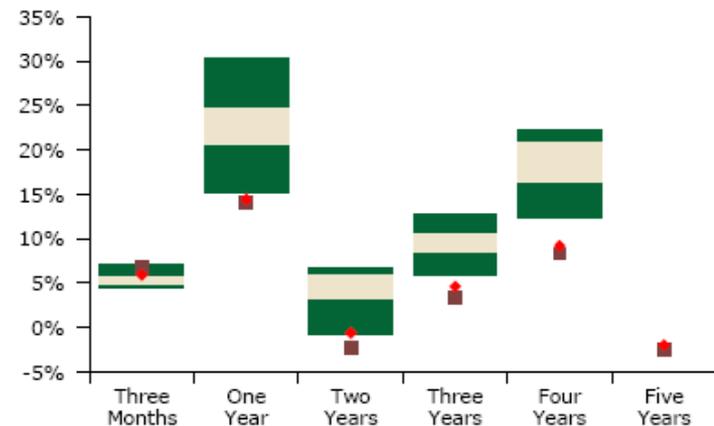
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Daiwa	6.7	13.9	(2.5)	3.2	(2.8)	3.9	Dec-1995
MSCI Pacific *	5.9	14.4	(0.7)	4.6	(2.0)	0.7	
<i>Excess Return</i>	0.8	(0.5)	(1.8)	(1.4)	(0.8)	3.2	

Objective: Outperform the benchmark by 200 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Daiwa	6.8	14.1	(2.4)	3.3	8.3	(2.6)
◆ MSCI Pacific *	5.9	14.4	(0.7)	4.6	9.2	(2.0)
Rank	25	99	99	99	99	
Rank	50	99	75	99	99	
10th Percentile	7.2	30.3	6.7	12.7	22.3	
1st Quartile	6.0	24.9	6.0	10.7	21.1	
Median	4.9	20.6	3.3	8.6	16.3	
3rd Quartile	4.4	15.1	(0.7)	6.0	12.4	
90th Percentile	4.4	15.1	(0.7)	6.0	12.4	
Number of Observations	9	9	9	9	9	

* Historically blended with other indices

Franklin Templeton

Mandate: Pacific Basin Manager

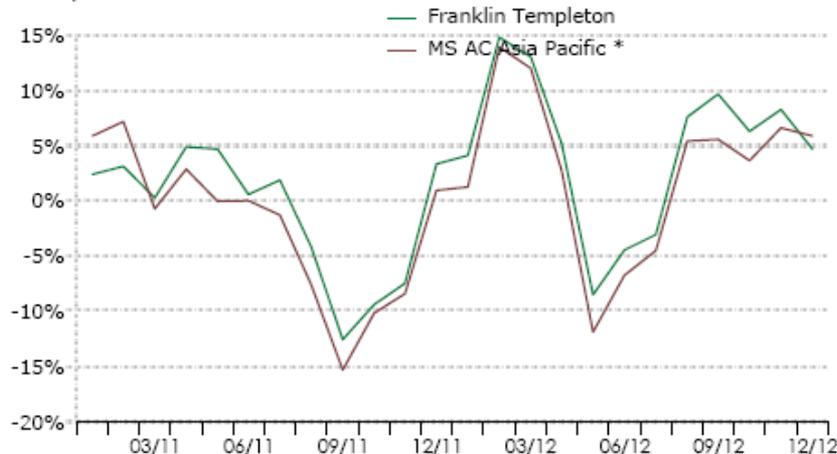
Benchmark: MS AC Asia Pacific*

Strategy

Franklin invests in Non-U.S. stocks in the Asia/Pacific region. Investments are in both developed and emerging countries.

Performance

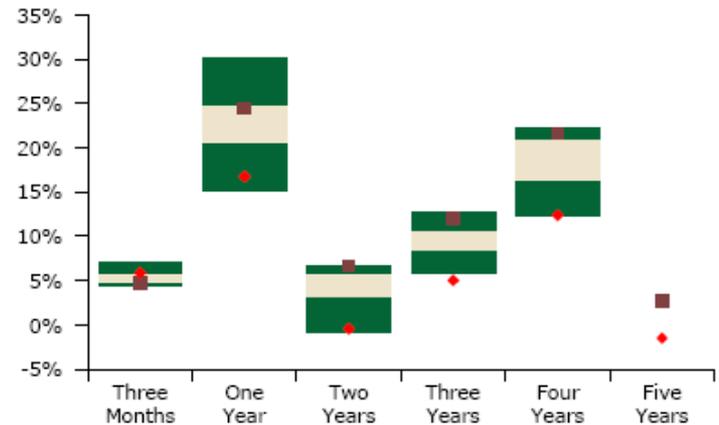
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Franklin Templeton	4.7	24.0	6.3	11.6	2.3	8.0	Nov-1991
MS AC Asia Pacific*	5.9	16.8	(0.4)	5.1	(1.5)	3.3	
<i>Excess Return</i>	(1.2)	7.2	6.7	6.5	3.8	4.7	

Objective: Outperform the benchmark by 200 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Franklin Templeton	4.8	24.5	6.7	12.0	21.6	2.7
Rank	75	50	1	25	25	
◆ MS AC Asia Pacific*	5.9	16.8	(0.4)	5.1	12.4	(1.5)
Rank	50	75	75	99	75	
10th Percentile	7.2	30.3	6.7	12.7	22.3	
1st Quartile	6.0	24.9	6.0	10.7	21.1	
Median	4.9	20.6	3.3	8.6	16.3	
3rd Quartile	4.4	15.1	(0.7)	6.0	12.4	
90th Percentile	4.4	15.1	(0.7)	6.0	12.4	
Number Of Observations	9	9	9	9	9	

* Historically blended with other indices

TT International

Mandate: Non-U.S. Developed Equity Mgrs.

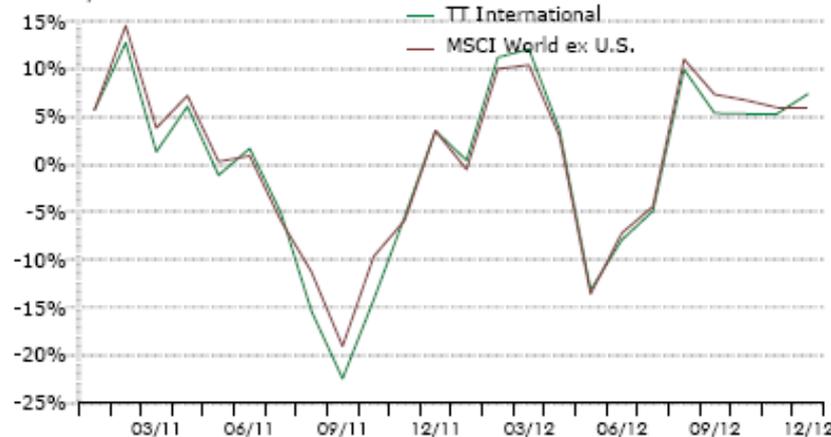
Benchmark: MSCI World ex U.S.

Strategy

TT Intl invests in Non-U.S. stocks primarily in developed countries. There is no regional focus. Potential investment opportunities are pursued in all countries within the MSCI World ex US index.

Performance

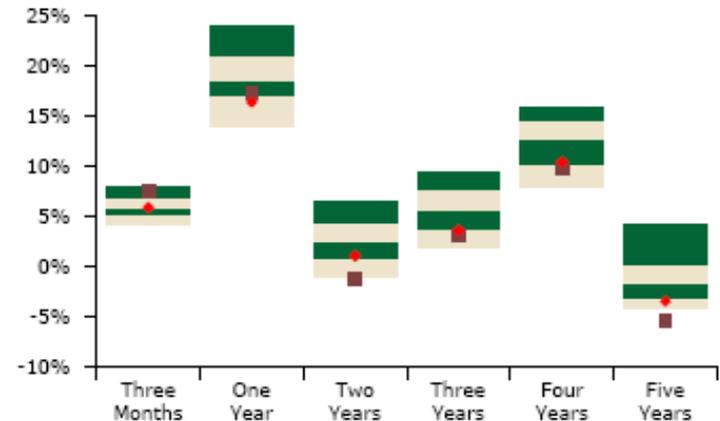
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
TT International	7.4	16.7	(1.8)	2.7	(5.9)	3.8	May-2001
MSCI World ex U.S.	5.9	16.4	1.1	3.7	(3.4)	4.5	
<i>Excess Return</i>	1.5	0.3	(2.9)	(1.0)	(2.5)	(0.7)	

Objective: Outperformed the benchmark in U.S.\$ by 3% per annum, net-of-fees, over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ TT International	7.5	17.3	(1.3)	3.3	9.8	(5.3)
Rank	19	72	92	82	79	93
◆ MSCI World ex U.S.	5.9	16.4	1.1	3.7	10.5	(3.4)
Rank	52	80	74	78	74	81
10th Percentile	8.0	24.0	6.4	9.5	15.9	4.1
1st Quartile	6.9	21.0	4.5	7.9	14.6	(0.0)
Median	6.0	18.5	2.6	5.7	12.8	(1.7)
3rd Quartile	5.4	17.1	0.9	3.8	10.3	(3.2)
90th Percentile	4.1	14.1	(1.0)	1.8	8.0	(4.0)
Number Of Observations	192	183	174	160	142	119

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LACERS
LOS ANGELES CITY EMPLOYEES'
RETIREMENT SYSTEM

Fixed Income Managers

Fixed Income Managers

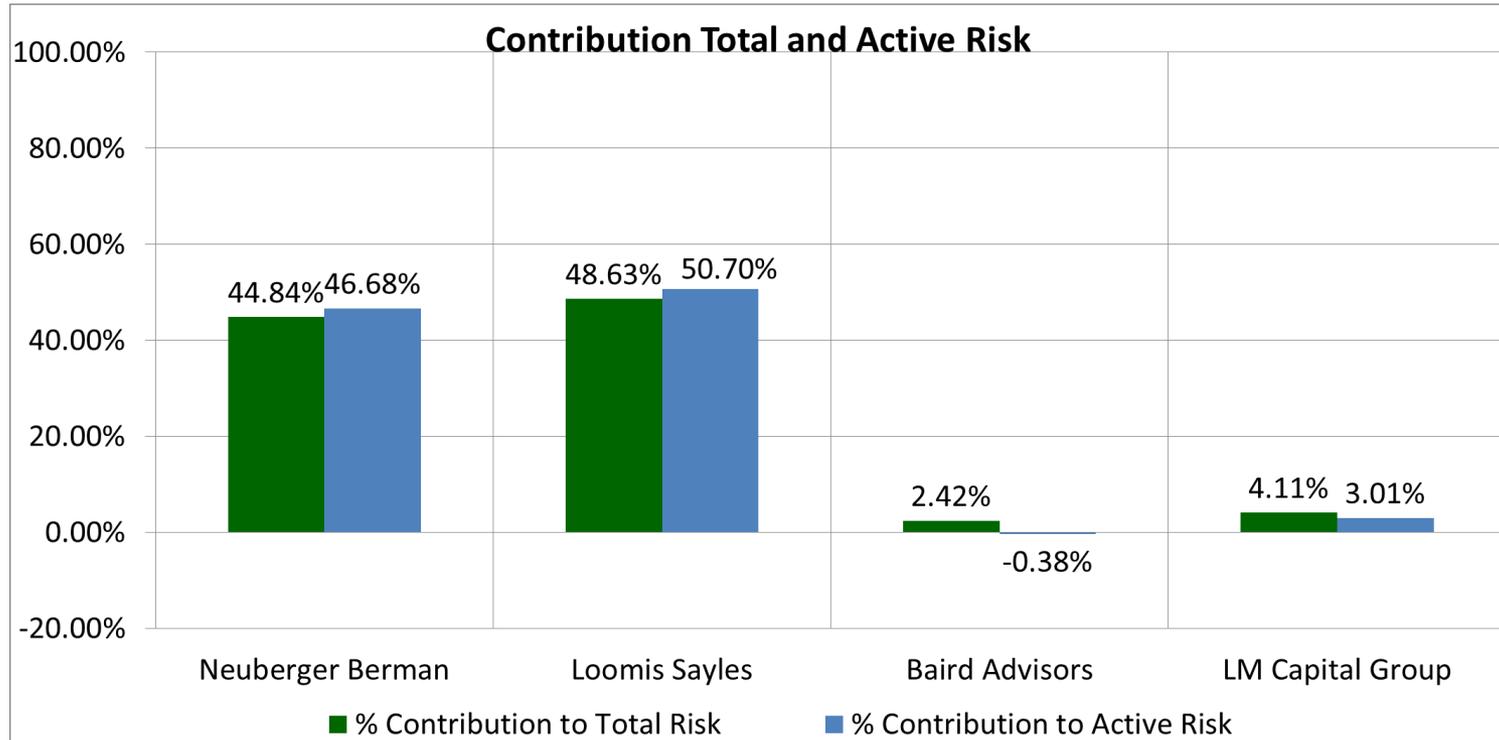
(Returns are Net of Fees)

	Inception Date	Market Value (\$million)	% to Total Fixed Income	Current Quarter	One Year	Three Years	Five Years	Ten Years	Since Inception ¹	5 Year Tracking Error
Total Fixed Income	Oct-94	\$ 2,789	100.0%	1.2	8.5	7.9	7.4	6.7	7.5	2.7
<i>BC U.S. Universal*</i>				0.6	5.5	6.7	6.2	5.6	6.5	
Excess Return				0.6	3.0	1.2	1.2	1.1	1.0	
Core Fixed Income	Jun-12	\$ 2,789	100.0%	1.2	--	--	--	--	4.4	--
<i>BC U.S. Universal</i>				0.6	--	--	--	--	2.6	
Excess Return				0.6	--	--	--	--	1.8	
Baird Advisors	Mar-05	\$ 247	8.9%	1.0	6.1	7.0	6.1	--	5.8	1.5
<i>BC U.S. Govt/Credit Intermed</i>				0.4	3.9	5.2	5.2	--	5.1	
Excess Return				0.6	2.2	1.8	0.9	--	0.7	
LM Capital Group	Mar-05	\$ 274	9.8%	0.9	6.9	6.7	6.5	--	6.2	2.9
<i>BC U.S. Universal*</i>				0.6	5.5	6.0	5.6	--	5.4	
Excess Return				0.3	1.4	0.7	0.9	--	0.8	
Loomis Sayles	Jun-80	\$ 1,125	40.3%	1.4	8.3	7.9	7.4	7.3	10.1	4.2
<i>BC U.S. Universal*</i>				0.6	5.5	6.7	6.2	5.6	8.6	
Excess Return				0.8	2.8	1.2	1.2	1.7	1.5	
Neuberger Berman	Nov-90	\$ 1,144	41.0%	1.0	8.9	8.6	8.6	7.1	7.9	3.4
<i>BC U.S. Universal*</i>				0.6	5.5	6.7	6.2	5.6	7.0	
Excess Return				0.4	3.4	1.9	2.4	1.5	0.9	

¹ Indicates gross returns

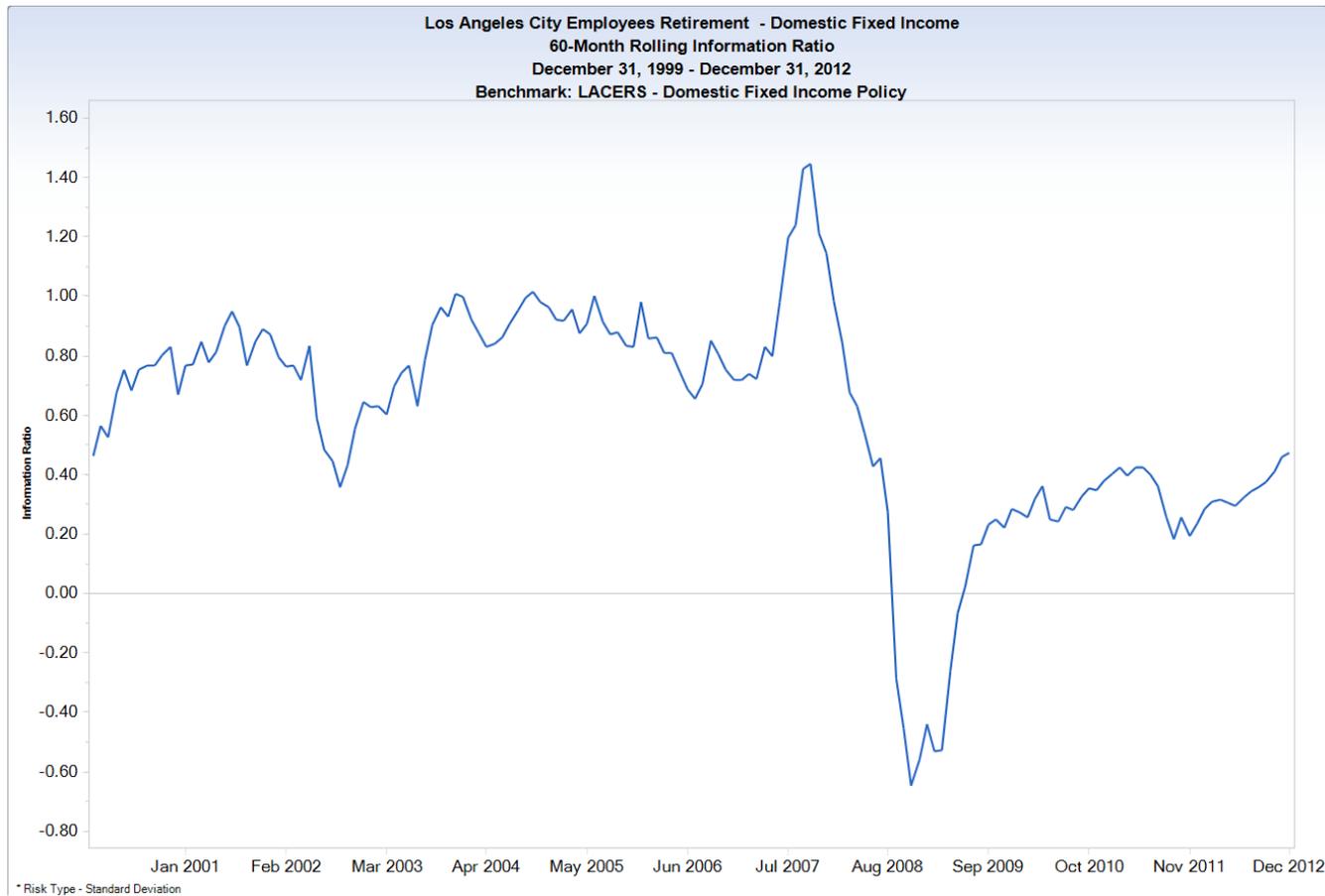
* The BC U.S. Universal index has historical data blended with other indices.

Fixed Income – Contribution to 5-Year Total & Active Risk



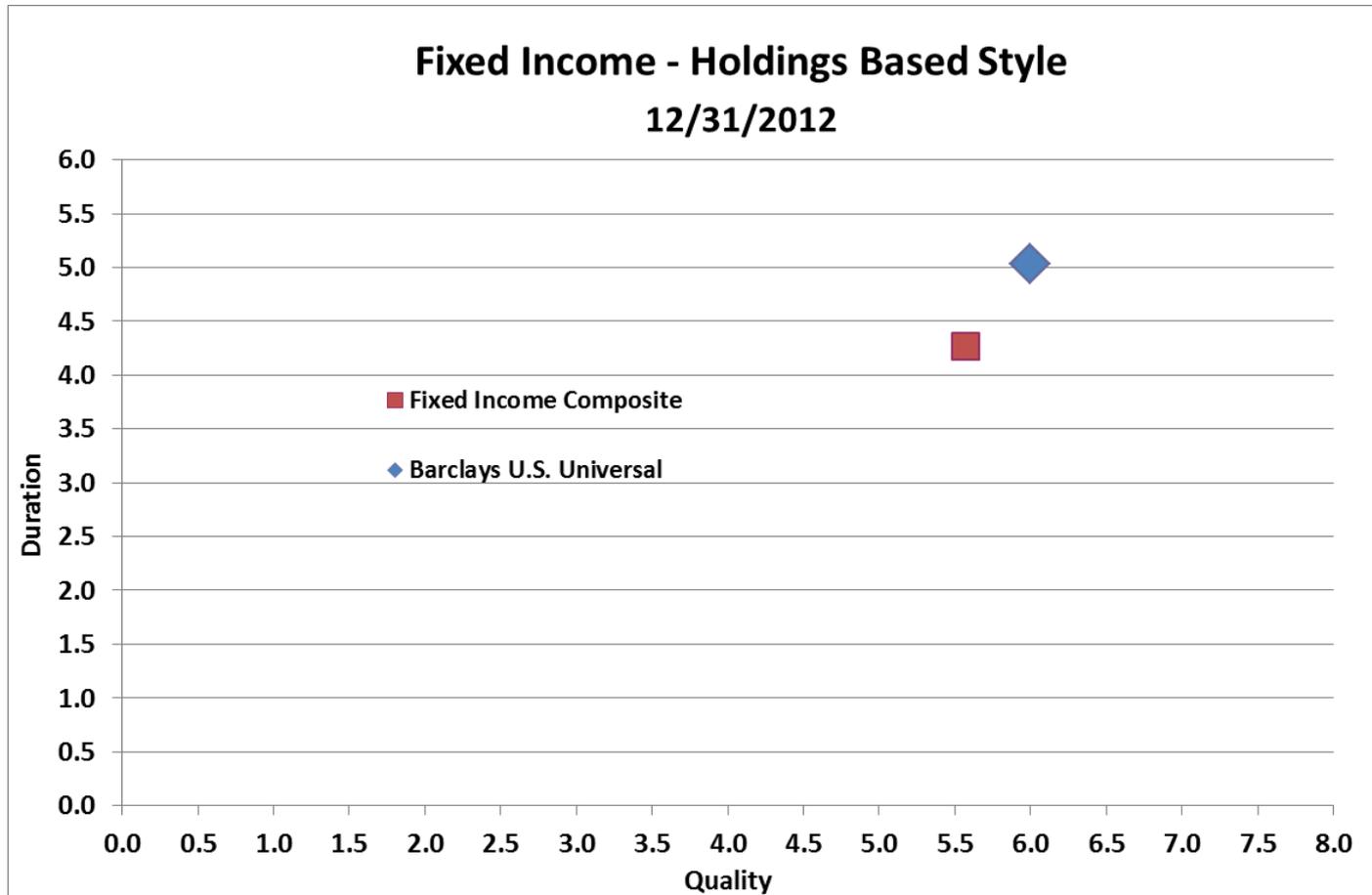
- Fixed Income managers had similar contribution to active risk as total risk
- Contribution to total risk for Baird and LM Capital is much lower than the actual portfolio weights as their effects are dominated by Neuberger Berman and Loomis Sayles
- Baird provided very modest active risk reduction

5-Year Rolling Risk-Adjusted Active Returns



- Active returns are returns earned over/(under) benchmark return
- Despite dip in 2008, fixed income composite has provided mostly positive risk-adjusted active returns since inception

Risk-adjusted active returns are referred to as "Information Ratio". $\text{Information Ratio} = \text{Excess return (alpha)} / \text{Excess risk (tracking error)}$



- LACERS Fixed Income portfolio has slightly lower duration than benchmark
- Portfolio is modestly lower quality versus benchmark

MANAGER REPORT CARD¹

Core Fixed Income	Inception Date	Mandate	Current Quarter		One Year		Three Years		Five Years		Since Inception	Comments ²
			I	U	I	U	I	U	I	U	I	
➤ Baird Advisors	Mar-05	Intermediate	✓	✓	✓	✓	✓	✓	✓	✓	✓	Performance satisfactory.
➤ LM Capital Group	Feb-05	Core - Plus	✓	✓	✓	✓	✓	✓	✓	✓	✓	Performance satisfactory.
➤ Loomis Sayles	Jun-80	Core - Plus	✓	✓	✓	✓	✓	✓	✓	✓	✓	Performance satisfactory.
➤ Neuberger Berman	Nov-90	Core - Plus	✓	✓	✓	✓	✓	✓	✓	✓	✓	Performance satisfactory.

¹ Current Quarter, 1-Yr, 3-Yrs, and 5-Yrs returns are net of fees. Since Inception returns are gross of fee.

² Managers are placed on the Watch List for concerns with organization, process, and performance. Managers are normally on the Watch List for 6 months though can be longer if manager issues still remain but not severe enough to warrant contract termination recommendation.

LEGEND		
✓	outperformed index	I index
*	underperformed index	U universe median
=	equal to index	

Baird Advisors

Mandate: Intermediate Fixed Income

Benchmark: BC U.S. Govt/Credit Intermed

Strategy

Baird invests primarily in U.S. investment-grade bonds in the government and credit sectors with 3-5 year maturities.

Performance

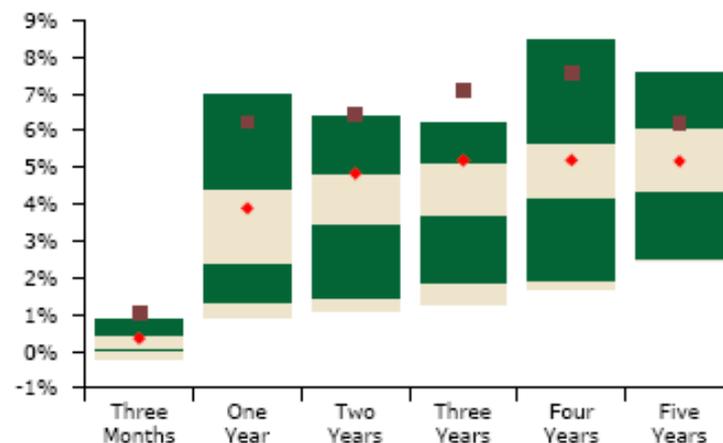
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Baird Advisors	1.0	6.1	6.3	7.0	6.1	5.8	Mar-2005
BC U.S. Govt/Crdt Int.	0.4	3.9	4.8	5.2	5.2	5.1	
<i>Excess Return</i>	0.6	2.2	1.5	1.8	0.9	0.7	

Objective: Outperform the benchmark by 15-40 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Baird Advisors	1.1	6.3	6.4	7.1	7.6	6.2
Rank	8	18	10	8	12	20
◆ BC U.S. Govt/Crdt Int.	0.4	3.9	4.8	5.2	5.2	5.2
Rank	29	30	26	25	36	36
10th Percentile	0.9	7.0	6.4	6.2	8.5	7.6
1st Quartile	0.4	4.4	4.8	5.2	5.7	6.1
Median	0.1	2.4	3.5	3.7	4.2	4.4
3rd Quartile	(0.1)	1.4	1.5	1.9	1.9	2.6
90th Percentile	(0.2)	1.0	1.1	1.3	1.7	2.5
Number Of Observations	56	54	53	46	38	32

LM Capital Group

Mandate: Intermediate Fixed Income

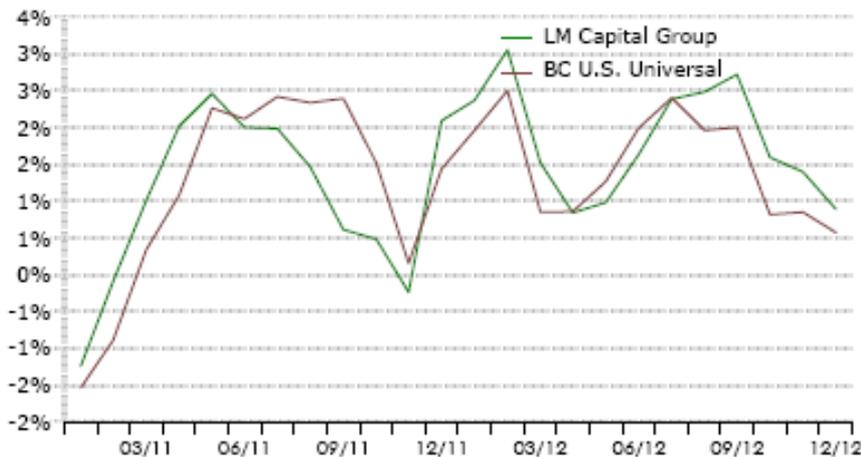
Benchmark: BC U.S. Universal

Strategy

LM Capital invests primarily in U.S. investment-grade bonds in the government and credit sectors with 3-5 year maturities.

Performance

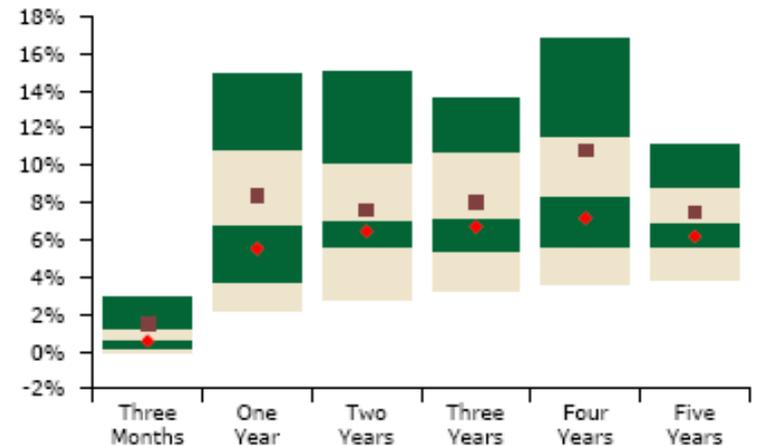
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
LM Capital Group	0.9	6.9	6.4	6.7	6.5	6.2	Mar-2005
BC U.S. Universal	0.6	5.5	6.0	6.0	5.6	5.4	
<i>Excess Return</i>	0.3	1.4	0.4	0.7	0.9	0.8	

Objective: Outperform the benchmark by 30-80 bps , annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ LM Capital Group	0.9	7.1	6.6	6.9	8.4	6.7
Rank	10	10	10	8	11	15
◆ BC U.S. Universal	0.6	5.5	6.0	6.0	5.8	5.6
Rank	17	19	13	14	23	33
10th Percentile	0.9	7.0	6.4	6.2	8.5	7.6
1st Quartile	0.4	4.4	4.8	5.2	5.7	6.1
Median	0.1	2.4	3.5	3.7	4.2	4.4
3rd Quartile	(0.1)	1.4	1.5	1.9	1.9	2.6
90th Percentile	(0.2)	1.0	1.1	1.3	1.7	2.5
Number Of Observations	56	54	53	46	38	32

Loomis Sayles

Mandate: U.S. Fixed Income Manager

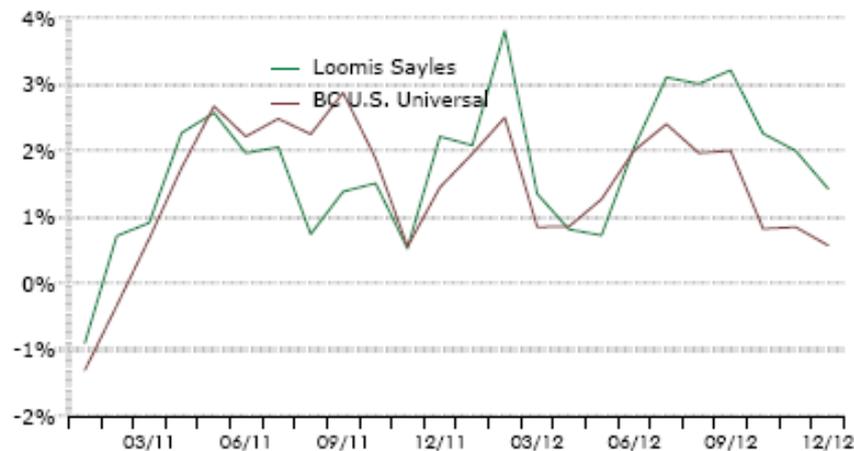
Benchmark: BC U.S. Universal

Strategy

Loomis invests primarily in U.S. investment-grade bonds rated BBB- or higher by Moody's.

Performance

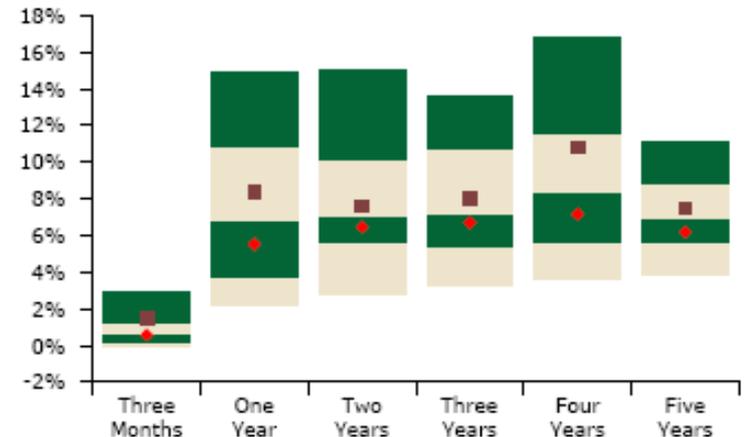
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Loomis Sayles	1.4	8.3	7.5	7.9	7.4	10.1	Jun-1980
BC U.S. Universal	0.6	5.5	6.5	6.7	6.2	8.6	
Excess Return	0.8	2.8	1.0	1.2	1.2	1.5	

Objective: Outperform the benchmark by 50 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Loomis Sayles	1.5	8.4	7.6	8.0	10.9	7.5
Rank	21	38	42	38	29	40
◆ BC U.S. Universal	0.6	5.5	6.5	6.7	7.2	6.2
Rank	53	62	63	59	62	65
10th Percentile	2.9	15.0	15.0	13.6	16.7	11.2
1st Quartile	1.3	10.9	10.1	10.8	11.6	8.9
Median	0.6	6.9	7.0	7.2	8.4	6.9
3rd Quartile	0.2	3.7	5.6	5.4	5.7	5.6
90th Percentile	(0.1)	2.2	2.8	3.2	3.6	3.9
Number Of Observations	437	420	391	355	299	249

Neuberger Berman

Mandate: U.S. Fixed Income Manager

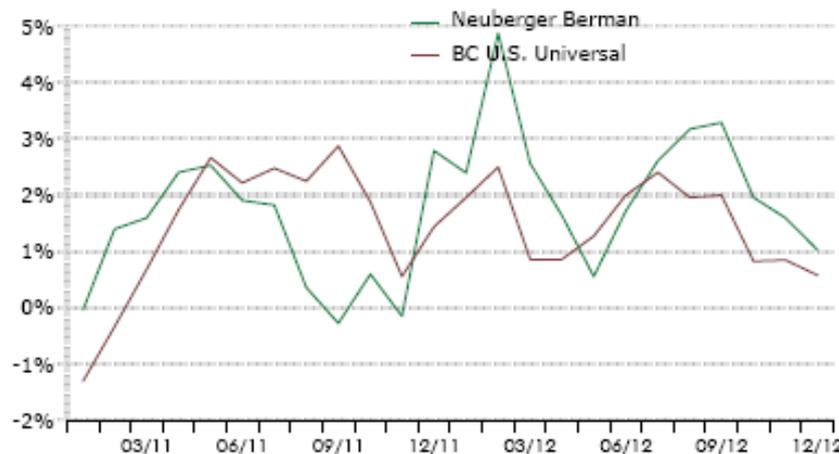
Benchmark: BC U.S. Universal

Strategy

Neuberger invests in investment-grade bonds rated BBB- or higher by Moody's.

Performance

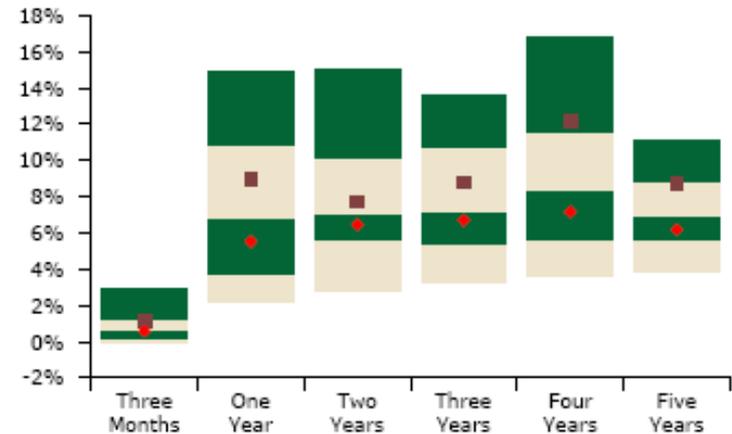
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Neuberger Berman	1.0	8.9	7.5	8.6	8.6	7.9	Nov-1990
BC U.S. Universal	0.6	5.5	6.5	6.7	6.2	7.0	
<i>Excess Return</i>	0.4	3.4	1.0	1.9	2.4	0.9	

Objective: Outperform the benchmark by 100 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Neuberger Berman	1.1	9.0	7.7	8.8	12.2	8.8
Rank	31	34	42	35	23	27
◆ BC U.S. Universal	0.6	5.5	6.5	6.7	7.2	6.2
Rank	53	62	63	59	62	65
10th Percentile	2.9	15.0	15.0	13.6	16.7	11.2
1st Quartile	1.3	10.9	10.1	10.8	11.6	8.9
Median	0.6	6.9	7.0	7.2	8.4	6.9
3rd Quartile	0.2	3.7	5.6	5.4	5.7	5.6
90th Percentile	(0.1)	2.2	2.8	3.2	3.6	3.9
Number Of Observations	437	420	391	355	299	249

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LACERS
LOS ANGELES CITY EMPLOYEES'
RETIREMENT SYSTEM

Definitions

I. Asset Allocation

- Market %: market value as a percent of the total fund's market value.
- Target %: investment policy on target allocation for each asset classes.
- Minimum and Maximum %: range of allocation for each asset classes.

II. Policy Benchmarks

• Current (adopted January 24, 2012)

- ◆ U.S Equity: 24% Russell 3000
- ◆ Non-U.S Equity: 29% MS ACWI ex US Net Div
- ◆ Fixed Income: 19% Barclays Capital (BC) Aggregate
- ◆ Credit Opportunities: 5% 65% Barclays U.S. High Yield Capped / 35% JP Morgan EMBI - Global Diversified
- ◆ Public Real Assets: 5% CPI + 5%
- ◆ Private Real Estate: 5% NCREIF + 100 bps annually
- ◆ Alternative Investments: 12% Russell 3000 plus 300 bps annually. Calculated on a dollar-weighted basis, and holding cash flows at 0% return for the first 36 months
- ◆ Cash: 1% 90-day Treasury Bill
- ◆ **Total:** 24% U.S. Equity; 29% Non-U.S. Equity; 19% Fixed Income; 5% Credit Opportunities; 5% Public Real Assets; 5% Private Real Estate; 12% Alternative Investments; 1% Cash

• Prior (adopted October 13, 2009)

- ◆ U.S Equity: 27% Russell 3000
- ◆ Non-U.S Equity: 20% MS ACWI ex US Net Div
- ◆ Core Fixed Income: 26% Barclays Capital (BC) Universal
- ◆ Real Estate: 7% NCREIF
- ◆ Alternative Investments: 9% Russell 3000 plus 400 bps annually. Calculated on a dollar-weighted basis, and holding cash flows at 0% return for the first 36 months.
- ◆ Cash: 1% 90-day Treasury Bill
- ◆ **Total:** 37% U.S. Equity; 20% Non-U.S. Equity; 26% Core Fixed Income; 7% Private Real Estate; 9% Alternative Investments; 1% Cash

III. Indices

- **Cash**

Salomon Brothers 3-Month Treasury Bills: an average of the last three 3-month treasury bill issues' monthly return equivalents of yield averages, which are not marked to market. Month-end discount yields are converted to bond-equivalent yields, then a simple average is taken, and that number is decomposed to a monthly return using the actual number of days in the month and a 365-day year.

- **Equity**

- ♦ **Dow Jones Industrial Average:** This index is the price-weighted average of 30 actively traded blue chip stocks.
- ♦ **NASDAQ:** A market value weighted index that measures all domestic and non-US based securities, more than 4700 companies listed on the NASDAQ stock market.
- ♦ **Russell Midcap Value:** contains Russell Midcap stocks having less-than-average growth orientation and are included in the Russell 1000 Value Index.
- ♦ **Russell 1000:** consists of the 1000 largest securities in the Russell 3000 Index. The Russell 1000 is capitalization-weighted.
- ♦ **Russell 1000 Growth:** contains Russell 1000 stocks having greater-than-average growth orientation. Stocks tend to exhibit lower dividend yields and higher price-to-book ratios, price-earnings ratios and forecast growth values than the Value universe. The index is capitalization-weighted (as opposed to equal-weighted).
- ♦ **Russell 1000 Value:** contains those Russell 1000 securities with a less-than-average growth orientation. Securities in this index tend to exhibit lower price-to-book and price-earnings ratios, higher dividend yields and lower forecasted growth values than the Growth universe. Russell 1000 Value is capitalization-weighted.
- ♦ **Russell 2000:** contains the smallest 2,000 stocks in the Russell 3000 Index, representing approximately 11% of the Russell 3000 total market capitalization. The index is capitalization-weighted (as opposed to equal-weighted).
- ♦ **Russell 2000 Growth:** contains those Russell 2000 securities with a greater-than-average growth orientation. Securities in this index tend to exhibit higher price-to-book and price-earnings ratios, lower dividend yields and higher forecasted growth values than the Value universe.
- ♦ **Russell 2000 Value:** contains those Russell 2000 securities with a less-than-average growth orientation. Securities in this index tend to exhibit lower price-to-book and price-earnings ratios, higher dividend yields and lower forecasted growth values than the Growth universe.
- ♦ **Russell 3000:** measures performance of the 3000 largest US companies based on total market capitalization. This index represents approximately 98% of the investable US equity market. The Russell 3000 is capitalization-weighted.

- ◆ **Standard and Poor 500:** the S&P, which represents approximately 75% of NYSE market capitalization and 30% of NYSE issues, contains 500 industrial, utility, transportation and financial companies in the U.S. markets (mostly NYSE issues). The S&P is capitalization-weighted (as opposed to equal-weighted), calculated on a total return basis with dividends reinvested.
- ◆ **Morgan Stanley All Country World ex USA:** an arithmetic, market value-weighted average of approx. 1800 securities from outside the United States. The index is calculated on a total return basis, including reinvestment of gross dividends before deduction of withholding taxes.
- ◆ **Morgan Stanley Capital International Emerging Markets Free:** contains securities of the following countries which are available to all investors regardless of local status: Argentina, Brazil, Chile, Colombia, Greece, India, Indonesia, Israel, Jordan, Malaysia, Mexico, Pakistan, Peru, Philippines, Poland, Portugal, South Africa, Sri Lanka, Thailand, Turkey and Venezuela.
- ◆ **Morgan Stanley Capital International EAFE:** an arithmetic, market value-weighted average of over 900 securities from Europe, Australia, and the Far East. The index is calculated on a total return basis, including reinvestment of gross dividends before deduction of withholding taxes. The following countries are represented: Australia, Austria, Belgium, Denmark, Finland, France, Germany, Hong Kong, Ireland, Italy, Japan, Malaysia, Netherlands, New Zealand, Norway, Singapore, Spain, Sweden, Switzerland and the United Kingdom.
- ◆ **Morgan Stanley Capital International Europe:** includes companies representing 15 European countries: Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.
- ◆ **Morgan Stanley Capital International Pacific:** includes companies representing 5 countries: Australia, Hong Kong, Japan, New Zealand and Singapore.
- ◆ **Morgan Stanley Capital International Pacific ex Japan:** includes companies representing 4 countries: Australia, Hong Kong, New Zealand and Singapore.
- ◆ **Morgan Stanley All Country Asia Pacific:** includes companies representing 14 countries: Australia, China, Hong Kong, India, Indonesia, Japan, Malaysia, Pakistan, Philippines, Korea, New Zealand, Singapore, Thailand, and Taiwan. It is calculated on a total return basis with dividends reinvested.
- **Fixed Income**
 - ◆ **Barclays Capital Aggregate:** an aggregate of the Government/Corporate Bond Index, the Mortgage-Backed Securities Index, and the Asset-Backed Securities Index. The index contains fixed rate debt issues with at least one-year maturity, \$100 million par value outstanding, and investment grade ratings by Moody's, S&P or Fitch (in that order). Returns are market-value weighted inclusive of accrued interest.

- ◆ **Barclays Capital Universal:** This index contains the Barclays Capital Aggregate index bonds plus approximately 10% of the remaining index includes US High Yield, Eurodollar, Emerging Markets, 144A Private Placements, and CMBS bonds.
- ◆ **Barclays Capital US Govt/Credit Intermediate:** This index is a sub-component of the Barclays Capital Aggregate index. Bonds consist of the US Treasury, US Agency (non-MBS), and US Investment-grade credit holdings with a maturity range of 1 to 10 years.
- ◆ **Bond Rating Methodology:** Bond ratings are intended to characterize the risk associated with holding a particular bond or categories of bonds. These ratings are the risk assessed by the market and that the bond issuer must pay to attract purchasers to the bond. These ratings are expressed as a series of letters and sequences.

Rating Categories in descending order:

- ◇ **AAA:** The best quality rating, stable cash flows, very protective bond covenants, very low probability of default.
 - ◇ **Aa:** The second best rating. Stable cash flows, less protective bond covenants, very low probability of default.
 - ◇ **A:** Stable cash flows, less protective bond covenants, long-term probability of default is higher than AAA or Aa.
 - ◇ **Baa:** Medium quality rating, reliable cash flows short term, less-reliable cash flows long term, bond covenants offer limited protection. Moderate probability of default. Downgrade to a lower rating is also possible. Baa bonds are the lowest rating still considered 'investment grade.
 - ◇ **Ba thru B:** Highly speculative. Long-term assurance of cash flows and protective elements are low. Purchasers of these bonds generally specialize in assessing credit risk of specific bond issues. Much higher spreads versus investment grade bonds provide the incentive for purchasers. High default or downgrade risk.
 - ◇ **Caa thru C:** Poor standing. Either close to default or in default. Highly probable loss of principal.
 - ◇ **D:** Coupon payments were not paid on the due date which puts the bond in default. Unless both Protective covenants and issuer assets are adequate (not likely), holder loses all likelihood of recovering principal.
- **Real Estate**
NCREIF Property Index: the NPI contains investment-grade, non-agricultural, income-producing properties which may be financed in excess of 5% gross market value; were acquired on behalf of tax exempt institutions; and are held in a fiduciary environment. Data is collected quarterly from a membership of investment managers and plan sponsors.

Returns are gross of fees; include income, realized gains/losses, and appreciation/depreciation; and are market-value weighted. Property values are determined by consistent appraisal methodology and sold properties are removed in the quarter of the sale (the historical data remains). Current quarter performance is preliminary.

IV. Universe Comparison

All Northern Trust Universes are gross of fees. Universe breaks are at 10, 25, 50, 75 and 90 percentiles.

- **TUCS Plan Universes**

Published on a quarterly basis using monthly observations. Over time, the plan population members will change due to new plans being introduced and other plans closing or leaving the universe.

Public Funds

Includes the range of performance of all Public Funds greater than 1 billion dollars. Monitored by the Wilshire's Trust Universe Comparison Services Group. Plans include state and municipal plans and systems.

- **Manager Universes**

Created using the performance of managers used by sponsor subscribers to the Risk & Performance Services Group (RPS). Each occurrence of a manager is considered as an observation. The manager universes are used to describe the actual experience of plan sponsors use of the managers; no manager supplied representative portfolios or composites are used in the creation of the universes. All occurrences of a manager are included in the magnitudes they are used by the sponsors; no stratification or judgments are introduced by RPS to alter a manager's representation. Manager portfolios are used from all market segments (ERISA, Public, Foundation & Endowments, and Wealth) since managers are hired to fulfill a specific policy objective that is not unique by plan type. Inclusion in a universe is based upon quantitative screening using the criteria described; an RPS analyst determines the comparison of a manager to this style background for reporting purposes. The portfolio criteria are applied as the average of the values over the time period being observed and not simply the current point in time value.

- ♦ **US Equity - Large Cap Core**

Includes portfolios with a portfolio average market capitalization greater than \$10 billion but not displaying any significant growth or value bias. The Barra Growth and Barra Book to Price risk factors are used to determine style orientation. Most of the portfolios also display a market-like beta.

◆ **US Equity - Large Cap Growth**

Includes portfolios with a portfolio average market capitalization greater than \$10 billion. Portfolios will also display a significant growth bias as represented by a Barra Growth Risk Factor in the top 40% of all US equity portfolios and a Barra Price/Book score in the bottom 70% of all US equity portfolios monitored by RPS. Most growth portfolios display an above market beta.

◆ **US Equity - Large Cap Value**

Includes portfolios with a portfolio average market capitalization greater than \$10 billion. Portfolios will also display a significant value bias as represented by a Barra Price/Book score in the top 30% of all US equity portfolios monitored by RPS. Most value portfolios display a below market beta and above market dividend yield.

◆ **US Equity - Small Cap Growth**

Includes portfolios with a portfolio average market capitalization of less than \$2 billion. Small Cap Growth portfolios will also display a growth bias as represented by a Barra Growth Risk Factor in the top 31% of all US equity portfolios monitored by RPS.

◆ **US Equity - Small Cap Value**

Includes portfolios with a portfolio average market capitalization of less than \$2 billion. Small Cap Value portfolios will also display a value bias as represented by a Barra Price/Book score in the top 27% and a Barra Growth factor score in the bottom 31% of all US equity portfolios monitored by RPS.

◆ **Non-US Equity - Developed Markets**

Includes all managers investing in developed markets outside of North America. The majority of the portfolios in this universe are EAFE-oriented but may contain an opportunistic allocation to emerging markets equity (extended EAFE). There are a few regional non-US equity managers (Europe & Pacific Basin) also represented.

◆ **Non-US Equity - Emerging Markets**

Includes all managers investing in emerging markets. The universe includes emerging markets managers that are diversified across all emerging markets as well as specialists in regional emerging markets.

◆ **US Core Fixed Income**

Includes all managers, active and passive, investing in US Fixed Income.

◆ **Credit Opportunities**

Includes all managers, active and passive, investing in US high yield and emerging market debt managers.

◆ **Public Real Assets**

Includes all managers investing in Public REITS, TIPS, Commodities, and Multi Asset Real Asset/Return managers.

V. Investment Performance

- **Time:** the internal rate of return (accounting for daily cash flows) monthly based on trade-date, full accrual accounting, and using market values. For periods of greater than one month, a time series of linked monthly returns is maintained, introducing a time weighted effect.
- The Real Estate and the Alternative Investments returns are lagged one quarter.
- The LACERS Total Fund return is dollar-weighted to include Alternative investments.

VI. Performance Attribution

- **Holdings-Based Attribution.**

US Equity, Non-US Equity, and Fixed Income tables are Holdings-based. The table details various attribution subcategories which impacted each manager's performance such as: selection, weighting, duration, yield, quality, etc.

VII. Terminology

- **Duration:** A measure of the sensitivity of the price (the value of principal) of a fixed-income portfolio given a 1% change in the US Treasury yield curve (interest rates). A portfolio with a duration of 4 would be expected to lose 4% of its value when interest rates rise 1%. Duration is expressed as a number of years. Rising interest rates mean falling bond prices, while declining interest rates mean rising bond prices.
- **Information ratio:** A ratio of portfolio returns above the returns of a benchmark (usually an index) to the volatility of those returns. The information ratio (IR) measures a portfolio manager's ability to generate excess returns relative to a benchmark, but also attempts to identify the consistency of the investor. This ratio will identify if a manager has beaten

the benchmark by a lot in a few months or a little every month. The higher the IR the more consistent a manager is and consistency is an ideal trait.

- **Standard deviation:** A statistical measure of volatility or the degree to which an individual value in a probability distribution tends to vary from the mean of the distribution. A manager with a one-year return of 5% and a standard deviation of 5, indicates the range of returns for this manager will likely fall between 0% and 10% during most annual time periods.
- **Tracking error:** A measure of the difference between returns of the portfolio and that of the benchmark it was attempting to imitate; reported as a "standard deviation percentage" difference.