THE CITY OF NEW YORK
OFFICE OF THE COMPTROLLER
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COMPTROLLER

NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM

INVESTMENT MEETING

APRIL 15, 2014

LOCATION:

Office of Buck Consultants
485 Lexington Avenue
New York, NY 10017

(Board Room of the Xerox Executive Briefing Center - 22nd Floor)

NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM

INVESTMENT MEETING

APRIL 15, 2014

PUBLIC AGENDA

		Page
I.	February Monthly Performance Review: (30 Minutes)	4
II.	Emerging Market Debt Education: (30 Minutes)	27
III.	Basket Clause Update (Discussion): (15 Minutes)	---

APPENDICES:

- Basket Clause 46
- Liquidity Analysis 48

PUBLIC AGENDA

I. February Monthly Performance Review:

Monthly Performance Review February 2014

Prepared for the New York City Board of Education Retirement System

4/15/2014

TABLE OF CONTENTS

Market Indicators for February & March.. ..... *1*

Contribution to Returns *3*

Asset Allocation Policy Weight Mixes *4*

Classification of Investments. *5*

Manager / Benchmark Comparison Report *8*

Private Equity Fund Supplemental Details *17*

Private Equity Cash Flow Tracker *18*

Real Estate Fund Supplemental Details *19*

Real Estate Cash Flow Tracker *20*

STATE STREET.

MARKET INDICATORS

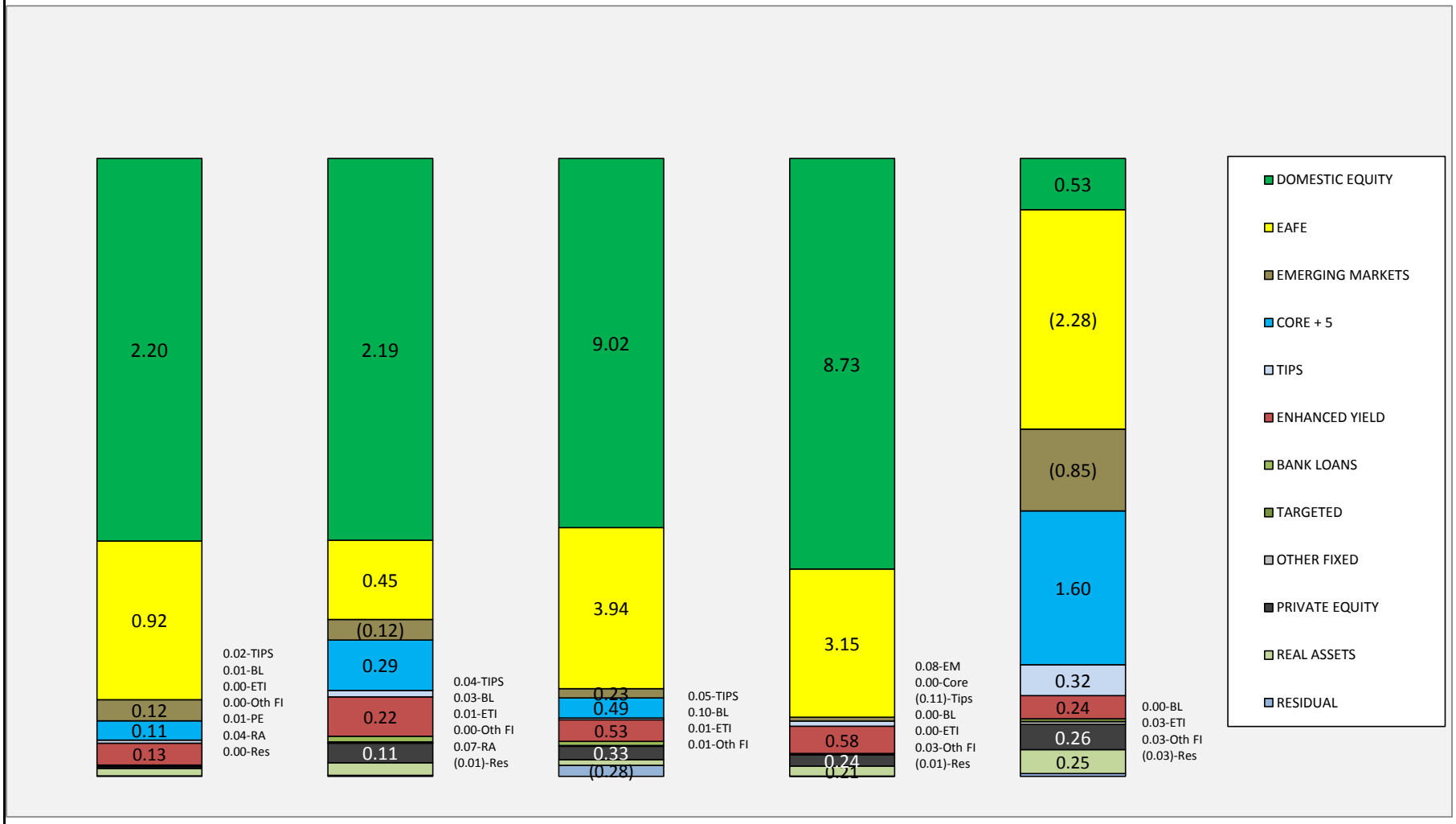
	1 Month	3 Month	Fiscal YTD	1 Year	2 Year	3 Year	5 Year	10 Year
S&P 500	4.57	3.51	17.42	25.37	19.27	14.35	23.00	7.16
S&P 400 MIDCAP	4.88	5.83	19.60	26.58	20.42	14.14	26.95	10.15
RUSSELL 1000	4.75	4.14	18.50	26.34	19.81	14.60	23.63	7.58
RUSSELL 2000	4.71	3.82	21.99	31.56	22.48	14.41	26.63	8.71
RUSSELL 3000	4.74	4.11	18.77	26.74	20.01	14.58	23.86	7.67
RUSSELL 3000 GROWTH	5.12	5.07	22.26	29.76	19.31	15.13	24.33	7.89
RUSSELL 3000 VALUE	4.34	3.11	15.30	23.65	20.57	13.95	23.34	7.30
MSCI EAFE NET	5.56	2.82	19.48	19.28	14.46	6.63	17.60	6.66
MSCI EMF NET	3.31	(4.79)	4.05	(6.01)	(2.91)	(1.99)	16.88	9.91
MSCI WORLD NET	5.01	3.26	18.13	21.68	16.06	9.81	19.98	6.75
MSCI EUROPE SMID CAP NET	8.57	10.07	35.69	36.33	23.97	11.52	24.87	9.97
MSCI AC WORLD ex US NET	5.02	1.13	15.63	12.25	9.42	3.98	17.25	7.16
NYC - TREASURY AGENCY PLUS FIVE	0.52	1.85	1.05	(3.12)	0.16	5.80	4.96	5.57
CITIGROUP MORTGAGE	0.34	1.48	2.52	0.60	1.25	2.96	3.96	4.70
NYC - INVESTMENT GRADE CREDIT	1.12	2.46	4.33	1.08	3.56	5.65	8.69	5.15
NYC - CORE PLUS FIVE	0.71	1.98	3.02	0.11	1.98	4.63	5.80	5.16
CITIGROUP BROAD INVESTMENT GRADE	0.55	1.47	2.44	0.18	1.63	3.84	4.88	4.67
BARCLAYS AGGREGATE	0.53	1.44	2.46	0.15	1.63	3.83	5.13	4.56
CITIGROUP BB & B	2.01	3.18	8.18	7.59	9.16	8.77	15.16	7.22
BofA ML HIGH YIELD MASTER II	2.00	3.32	8.75	8.38	10.10	8.78	18.91	8.59
CSFB LEVERAGED LOAN	0.22	1.47	4.21	5.54	6.82	5.21	12.37	5.02
BARCLAYS GLOBAL US TIPS	0.45	0.93	1.09	(5.78)	(0.89)	4.02	6.20	4.74
BofA ML ALL CONVERTIBLES EX MANDATORY	4.27	8.31	20.98	26.87	18.33	11.83	20.80	7.57
DJ US SELECT REAL ESTATE	5.13	9.92	4.81	6.27	10.92	9.28	29.58	8.59
NCREIF NFI - ODCE NET	0.00	2.94	6.38	12.90	11.34	12.53	2.71	6.16
CPI + 4%	0.43	1.48						
91 DAY TREASURY BILL	0.00	0.02	0.04	0.08	0.10	0.09	0.12	1.68

CITY OF NEW YORK
Market Indicator Page *NYC Board of Education Retirement System
March 31, 2014

MARKET INDICATORS

	1 Month	3 Month	Fiscal YTD	1 Year	2 Year	3 Year	5 Year	10 Year
S&P 500	0.84	1.81	18.41	21.86	17.84	14.66	21.16	7.42
S&P 400 MIDCAP	0.37	3.04	20.04	21.24	19.53	13.37	24.86	10.14
RUSSELL 1000	0.64	2.05	19.25	22.41	18.35	14.75	21.73	7.80
RUSSELL 2000	(0.68)	1.12	21.16	24.90	20.52	13.18	24.31	8.53
RUSSELL 3000	0.53	1.97	19.40	22.61	18.52	14.61	21.93	7.86
RUSSELL 3000 GROWTH	(1.13)	1.07	20.88	23.53	16.79	14.53	21.94	7.95
RUSSELL 3000 VALUE	2.30	2.92	17.95	21.65	20.17	14.63	21.88	7.62
MSCI EAFE NET	(0.64)	0.66	18.72	17.56	14.36	7.21	16.02	6.53
MSCI EMF NET	3.07	(0.43)	7.24	(1.43)	0.25	(2.86)	14.48	10.11
MSCI WORLD NET	0.14	1.26	18.31	19.07	15.40	10.23	18.28	6.83
MSCI EUROPE SMID CAP NET	(1.36)	5.17	33.85	34.86	22.98	10.72	22.97	10.07
MSCI AC WORLD ex US NET	0.26	0.51	15.92	12.31	10.32	4.15	15.52	7.12
NYC - TREASURY AGENCY PLUS FIVE	(0.23)	3.47	0.82	(3.54)	1.10	5.72	4.15	5.40
CITIGROUP MORTGAGE	(0.38)	1.61	2.13	0.11	1.02	2.77	3.57	4.62
NYC - INVESTMENT GRADE CREDIT	0.10	2.70	4.43	1.17	3.99	5.69	8.72	5.06
NYC - CORE PLUS FIVE	(0.15)	2.42	2.87	(0.12)	2.25	4.55	5.45	5.06
CITIGROUP BROAD INVESTMENT GRADE	(0.18)	1.82	2.25	(0.07)	1.83	3.76	4.55	4.57
BARCLAYS AGGREGATE	(0.17)	1.84	2.28	(0.10)	1.82	3.75	4.80	4.46
CITIGROUP BB & B	0.25	2.97	8.45	6.79	9.40	8.71	14.96	7.17
BofA ML HIGH YIELD MASTER II	0.23	3.00	9.00	7.53	10.28	8.71	18.19	8.54
CSFB LEVERAGED LOAN	0.37	1.30	4.59	5.04	6.64	5.29	12.24	5.01
BARCLAYS GLOBAL US TIPS	(0.47)	1.95	0.61	(6.49)	(0.59)	3.50	4.91	4.53
BofA ML ALL CONVERTIBLES EX MANDATORY	(1.74)	4.39	18.87	20.99	16.58	10.92	19.25	7.30
DJ US SELECT REAL ESTATE	0.86	10.27	5.71	4.36	8.62	10.12	28.97	8.06
NCREIF NFI - ODCE NET								
CPI + 4%								
91 DAY TREASURY BILL	0.00	0.01	0.04	0.07	0.09	0.08	0.12	1.67

NYC Board of Education Retirement System Contribution to Return - February 2014



1 Month - Total Fund	3 Months - Total Fund	FYTD - Total Fund	FY Ending 6/30/13 Total	FY Ending 6/30/12
Return: 3.56%	Return: 3.29%	Return: 14.56%	Return: 12.90%	Return: 0.10%

Prepared by State Street Investment Analytics

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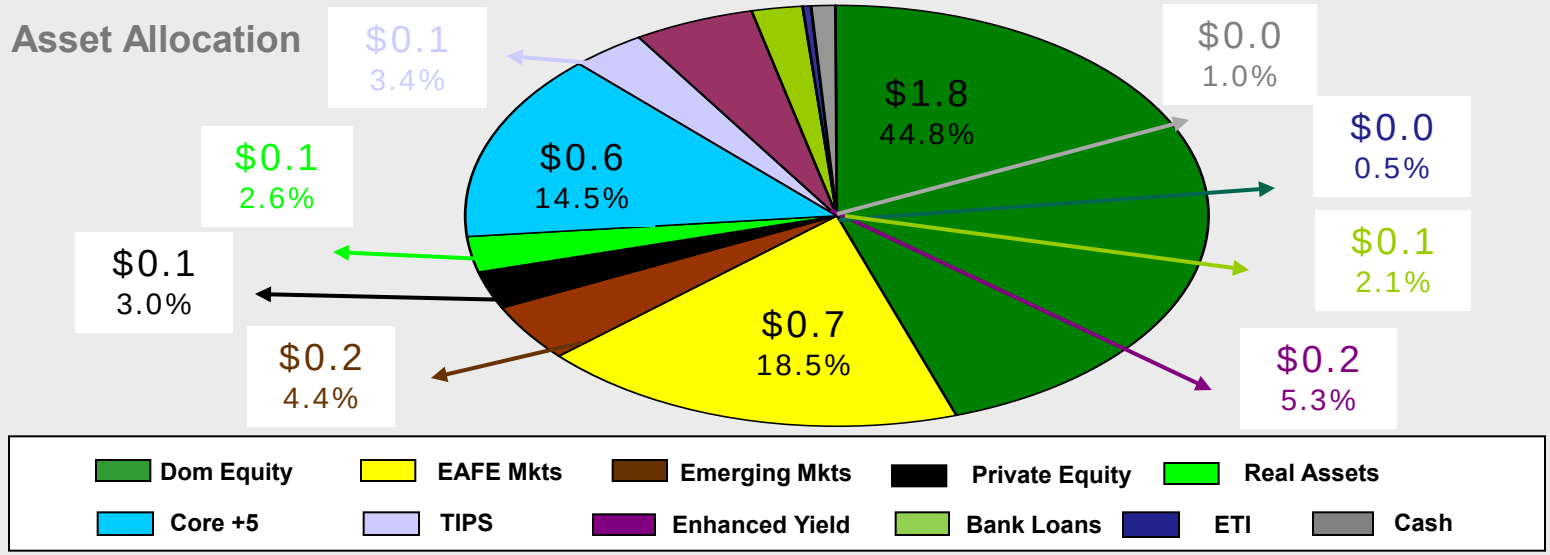
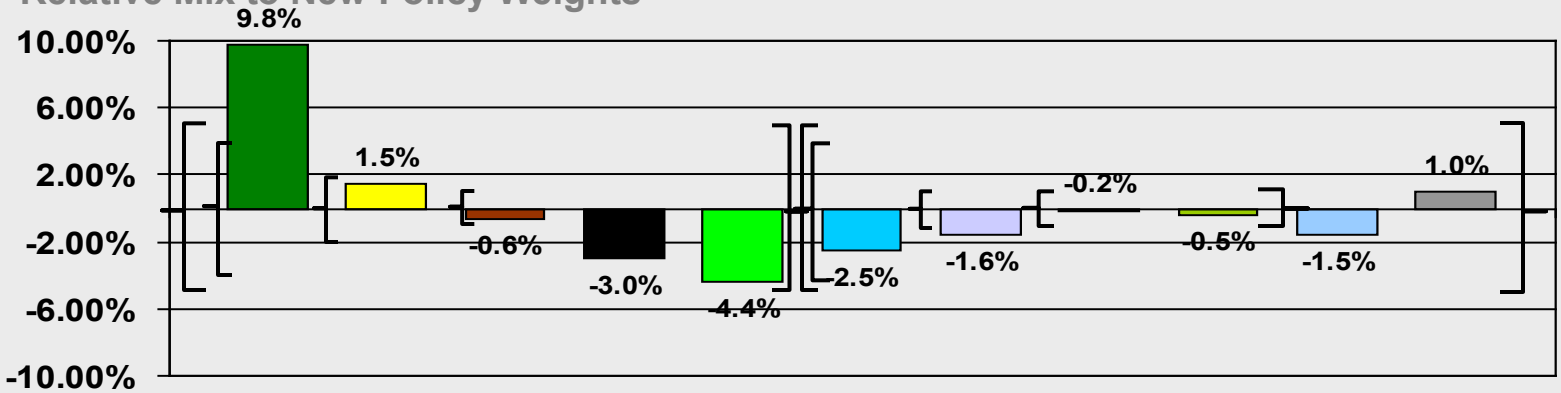
Portfolio Asset Allocation: February 28, 2014

$4.0B Under Management

Asset Allocation



Relative Mix to New Policy Weights



Note: Brackets represent rebalancing ranges versus Policy.

NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM
CLASSIFICATION OF INVESTMENTS
(as of February 28th, 2014)

ASSET CLASS ALLOCATIONS

	In $MM	Actual	Policy Target	*Adjustment*	*Adjusted Policy*	*Adjusted Target Range* ***
TOTAL EQUITIES	$2,927.2	73.2%	70.0%	*NA*	*70.0%*	*65.0% - 75.0%*
TOTAL FIXED INCOME	$1,069.2	26.8%	30.0%	*NA*	*30.0%*	*25.0% - 35.0%*
TOTAL ASSETS	$3,996.4	100.0%	100.0%	*NA*	*100.0%*	

	In $MM	Actual	Policy Target	*Adjustment*	*Adjusted Policy*	*Adjusted Target Range* ***
US Equities	$1,789.2	44.8%	35.0%	*7.4%*	*42.4%*	*38.4% - 46.4%*
Non-US Equities/EAFE	$738.5	18.5%	17.0%	*NA*	*17.0%*	*15.0% - 19.0%*
Emerging Markets	$175.9	4.4%	5.0%	*NA*	*5.0%*	*4.0% - 6.0%*
TOTAL PUBLIC EQUITY	$2,703.6	67.7%	57.0%	*NA*	*64.4%*	
* *REAL ASSETS*	$105.1	2.6%	7.0%	*NA*	*2.6%*	*6.0% - 8.0%*
* *PRIVATE EQUITY*	$118.5	3.0%	6.0%	*NA*	*3.0%*	*5.0% - 7.0%*
TOTAL EQUITIES	$2,927.2	73.2%	70.0%	*NA*	*70.0%*	*65.0% - 75.0%*

		In $MM	Actual	Policy Target	*Adjustment*	*Adjusted Policy*	*Adjusted Target Range* ***
Core +5	US - Government	$88.7	2.2%	17.0%	*NA*	*17.0%*	*13.0% - 21.0%*
	US - Mortgage	$243.7	6.1%		*NA*		
	US - Investment Grade Credit	$245.9	6.2%		*NA*		
	TOTAL CORE + 5	$578.3	14.5%	17.0%	*NA*	*17.0%*	*13.0% - 21.0%*
	High Yield	$211.9	5.3%	5.5%	*NA*	*5.5%*	*7.0% - 9.0%*
	Bank Loans	$82.0	2.1%	2.5%	*NA*	*2.5%*	
	Total High Yield & Bank Loans	$293.9	7.4%	8.0%	*NA*	8.0%	*7.0% - 9.0%*
	TIPS	$136.9	3.4%	5.0%	*NA*	*5.0%*	*4.0% - 6.0%*
	**ETI	$18.7	0.5%	**2.0%	*NA*	** *0.5%*	** *0.5%*
	Cash	$41.4	1.0%	0.0%	*NA*	*0.0%*	*0.0% - 5.0%*
	TOTAL PUBLIC FIXED INCOME	$1,069.2	26.8%	30.0%	*NA*	*30.0%*	
	TOTAL FIXED INCOME	$1,069.2	26.8%	30.0%	*NA*	*30.0%*	25.0% - 35.0%

* Ranges for illiquid asset classes represent minimums and maximums which will be monitored and will influence pacing analysis but will not necessarily result in purchases or sales.

** ETIs have a policy of 2% of the total Fund. The ETI adjusted policy % is shown for illustrative purposes only and is not included in the sub-totals. The ETI policy % is included within the policy % of the other asset classes.

*** Adjusted Target Ranges are calculated as follows: Total Equities: +/-5%; Total Fixed Income: +/-5%; US Equities: +/-4%; Non-US Equities/EAFE: +/-2%; Emerging Markets: +/-1%; Real Assets: +/-1%; Private Equity: +/-1%; Core +5: +/-4%; TIPS: +/-1%; High Yield & Bank Loans: +/-1%; Cash: 0-5%.

NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM
CLASSIFICATION OF INVESTMENTS
(as of February 28th, 2014)

Adjustments to Long-Term Asset Allocation

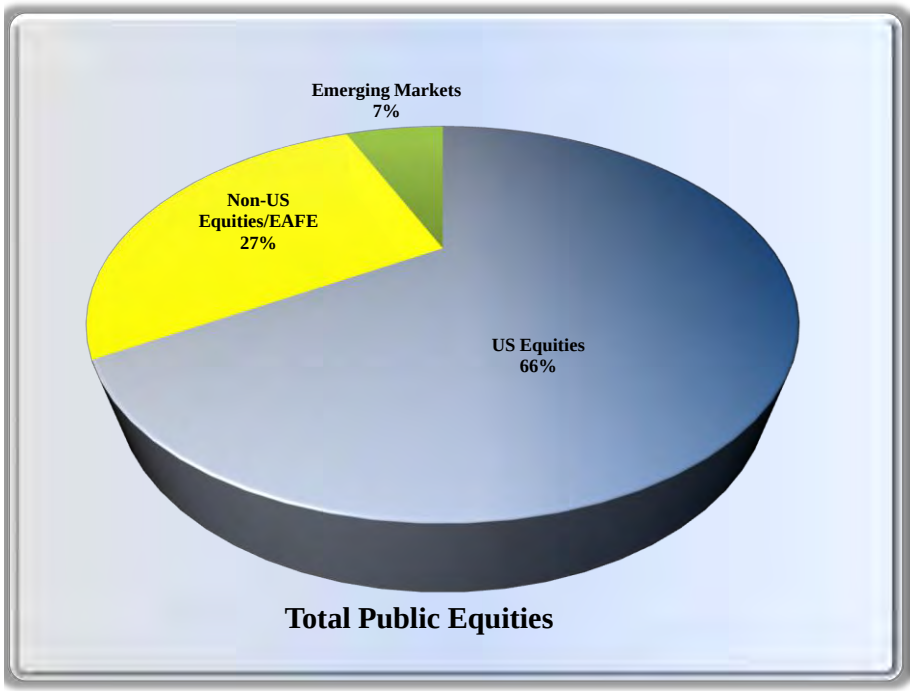
1) **Private Equity**
   100% of uninvested commitments will be invested in Domestic Equity.

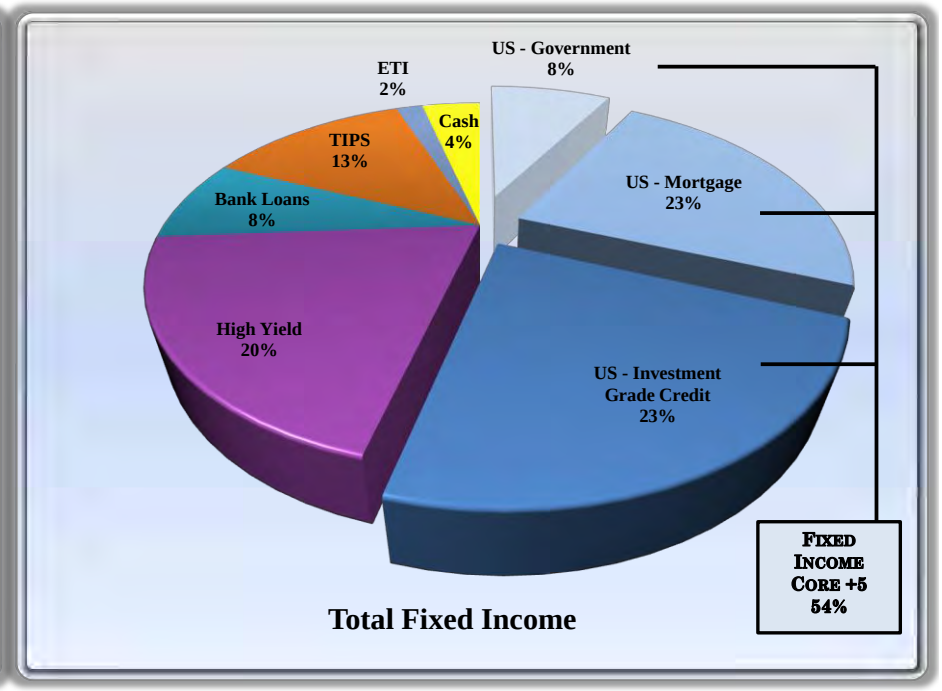
2) **Real Assets**
   100% of uninvested commitments will be invested in Domestic Equity.

Impact of Adjustments

1) **Domestic Equity Policy Target %**	**35.0%**
Adjustment: 100% of uninvested Private Equity	3.0%
Adjustment: 100% of uninvested Real Assets	4.4%
Adjusted Domestic Equity Policy Target %	**42.4%**

NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM
CLASSIFICATION OF INVESTMENTS
(as of February 28th, 2014)





Note: Totals may not equal 100% due to rounding

NYC Board of Education Retirement System

Manager / Benchmark Comparison Report

Rates of Return - Total

Periods Ending February 28, 2014

	Assets ($MM)	% of Total	Trailing 1 Month	Trailing 3 Month	FYTD	CYTD	FYE 06/30/13	CYE 12/31/13	CYE 12/31/12	CYE 12/31/11	CYE 12/31/10	Trailing 1 Year	Trailing 3 Year	Trailing 5 Year	Trailing 10 Year	ITD	Inception Date
ASSET CLASS SUMMARY																	
BERS-TOTAL DOM EQUITY	1,789.2	44.77	4.99	4.94	20.64	2.07	23.09	35.96	16.62	-0.72	17.27	29.45	14.84	24.09	7.95	9.83	Sep-01-91
BERS-TOTAL ACTIVE EAFE EQUITY	738.5	18.48	5.03	2.45	21.47	0.50	16.54	24.21	18.40	-10.35	17.92	19.92	9.15	20.84	9.08	8.71	Nov-01-92
BERS-TOTAL EMERGING (INTL)	175.9	4.40	2.76	-2.57	4.93	-2.03	1.83	-4.27	18.15	-18.03	19.85	-6.38	-1.94	16.26	9.91	8.40	Nov-01-97
BERS-TOTAL STRUCTURED	578.2	14.47	0.75	1.98	3.20	2.55	-0.01	-2.38	6.68	9.23	8.36	0.28	5.05	6.92	5.34	8.20	Jan-01-85
BERS-TOTAL ACTIVE TIPS MANAGERS	136.9	3.43	0.51	1.08	1.26	2.60	-4.30	-8.52	7.67	13.34	6.57	-5.87	4.36	6.47		4.82	Jun-01-05
BERS-TOTAL HIGH YIELD	211.9	5.30	2.33	4.25	9.82	3.21	9.75	8.39	15.68	6.25	15.01	10.09	9.66	16.91	8.65	6.43	Aug-01-97
BERS-TOTAL BANK LOANS	82.0	2.05	0.26	1.53	4.68	0.96		6.33				5.76				5.38	Sep-01-12
BERS-TOTAL TARGETED	18.7	0.47	0.46	1.44	2.39	2.06	-0.38	-1.73	4.34	7.13	5.80	0.25	3.67	4.63			Dec-01-84
BERS-TOTAL PRIVATE EQUITY	118.5	2.96	0.33	3.69	10.98	0.33	7.31	15.34	7.70	19.15	13.64	14.94	14.09	8.73		1.72	Jul-01-06
BERS-TOTAL REAL ASSETS	105.1	2.63	1.66	2.89	5.46	2.89	9.79	8.57	14.30	9.43		11.49	11.80			10.85	Dec-01-10
BERS-TOTAL CASH	41.3	1.03	0.01	0.04	0.68	0.03	-0.09	0.29	0.54	0.59	0.47	0.29	0.46	0.61		2.35	Apr-01-04
SECURITY LENDING	0.1	0.00															Apr-01-04
BERS-TOTAL BOARD OF ED.	**3,996.1**	**100.00**	**3.56**	**3.29**	**14.56**	**1.66**	**12.90**	**18.78**	**13.50**	**-0.42**	**14.95**	**16.49**	**9.76**	**17.00**	**7.51**	**9.05**	**Jul-01-87**
BERS-TOTAL EQUITY	2,703.5	67.65	4.85	3.73	19.72	1.36	19.79	29.23	17.29	-5.27	17.69	23.93	11.82	22.49		8.36	Apr-01-04
BERS-TOTAL FIXED INCOME	1,027.7	25.72	0.99	2.27	4.34	2.55	1.65	-0.57	8.55	9.42	9.39	1.69	6.14	8.77		5.98	Apr-01-04
BERS-TOTAL PRIVATE EQUITY	118.5	2.96	0.33	3.69	10.98	0.33	7.31	15.34	7.70	19.15	13.64	14.94	14.09	8.73		1.72	Jul-01-06
BERS-TOTAL REAL ASSETS	105.1	2.63	1.66	2.89	5.46	2.89	9.79	8.57	14.30	9.43		11.49	11.80			10.85	Dec-01-10
BERS-TOTAL CASH	41.3	1.03	0.01	0.04	0.68	0.03	-0.09	0.29	0.54	0.59	0.47	0.29	0.46	0.61		2.35	Apr-01-04
SECURITY LENDING	0.1	0.00															Apr-01-04
BERS-TOTAL BOARD OF ED.	**3,996.1**	**100.00**	**3.56**	**3.29**	**14.56**	**1.66**	**12.90**	**18.78**	**13.50**	**-0.42**	**14.95**	**16.49**	**9.76**	**17.00**	**7.51**	**9.05**	**Jul-01-87**
Board of Education Policy Benchmark			3.49	3.07	13.09	1.69	13.70	17.91	14.05	0.47	13.04	15.41	9.72	17.60	7.17		Jun-01-94

NYC Board of Education Retirement System

Manager / Benchmark Comparison Report

Rates of Return - Total

Periods Ending February 28, 2014

STATE STREET.

	Assets ($MM)	% of Total	Trailing 1 Month	Trailing 3 Month	FYTD	CYTD	FYE 06/30/13	CYE 12/31/13	CYE 12/31/12	CYE 12/31/11	CYE 12/31/10	Trailing 1 Year	Trailing 3 Year	Trailing 5 Year	Trailing 10 Year	ITD	Inception Date
EQUITY ASSET CLASS SUMMARY																	
BERS-TOTAL DOM EQUITY	1,789.2	44.77	4.99	4.94	20.64	2.07	23.09	35.96	16.62	-0.72	17.27	29.45	14.84	24.09	7.95	9.83	Sep-01-91
RUSSELL 3000 (DAILY)			4.74	4.11	18.77	1.43	21.46	33.55	16.42	1.03	16.93	26.74	14.58	23.86	7.67	9.61	Sep-01-91
Excess			0.25	0.83	1.87	0.64	1.63	2.41	0.20	-1.75	0.34	2.70	0.26	0.23	0.28	0.22	
BERS-TOTAL PASSIVE DOM EQUITY	1,392.4	34.84	4.73	4.25	18.83	1.49	21.69	33.59	16.50	0.69	16.99	26.76	14.53	23.80	7.68	9.49	Sep-01-93
RUSSELL 3000 (DAILY)			4.74	4.11	18.77	1.43	21.46	33.55	16.42	1.03	16.93	26.74	14.58	23.86	7.67	9.26	Sep-01-93
Excess			-0.01	0.14	0.06	0.05	0.23	0.04	0.08	-0.33	0.06	0.02	-0.05	-0.07	0.01	0.24	
BERS-TOTAL SMALL CAP PASSIVE	106.9	2.67	4.70	3.97		1.80										10.91	Oct-01-13
Russell 2000 TR			4.71	3.82		1.81										10.69	Oct-01-13
Excess			-0.01	0.16		-0.01										0.22	
BERS-TOTAL MID CAP PASSIVE	73.7	1.85	4.87	5.81	19.54	2.65	25.17	33.46	17.89			26.54	14.17			15.48	Feb-01-11
S&P400MIDCAPINDEX(DAILY)			4.88	5.83	19.60	2.66	25.18	33.50	17.88			26.58	14.14			15.46	Feb-01-11
Excess			-0.01	-0.02	-0.06	0.00	-0.01	-0.04	0.01			-0.03	0.02			0.01	
BERS-RUSSELL 1000 PASSIVE	1,211.7	30.32	4.73	4.18		1.39										11.78	Oct-01-13
RUSSELL 1000 GROWTH - DAILY			5.15	5.07		2.15										12.81	Oct-01-13
Excess			-0.42	-0.89		-0.76										-1.03	
BERS-TOTAL ACTIVE DOM EQUITY	396.8	9.93	5.92	7.43	27.44	4.18	27.60	44.80	16.91	-3.63	17.87	39.79	16.80	25.56	8.97	9.09	Feb-01-93
Russell 2000 TR			4.71	3.82	21.99	1.81	24.21	38.82	16.35	-4.18	26.85	31.56	14.41	26.63	8.71	9.60	Feb-01-93
Excess			1.21	3.61	5.45	2.37	3.39	5.98	0.56	0.54	-8.99	8.23	2.39	-1.07	0.27	-0.51	
BERS-TOTAL SMALL CAP ACTIVE	34.3	0.86	6.65	5.98	24.81	2.94	33.60	44.54	19.91	-10.17	21.37	36.70	14.43	25.64		7.43	Apr-01-04
Russell 2000 TR			4.71	3.82	21.99	1.81	24.21	38.82	16.35	-4.18	26.85	31.56	14.41	26.63		8.68	Apr-01-04
Excess			1.94	2.17	2.82	1.13	9.39	5.72	3.56	-5.99	-5.48	5.13	0.01	-0.99		-1.25	
BERS-TOTAL MID CAP ACTIVE	128.1	3.21	5.90	9.21	26.20	5.57	25.66	40.05	19.88	-6.79		36.47	15.86			20.04	Oct-01-10
RUSSELL MIDCAP (DAILY)			5.87	6.90	21.17	3.81	25.41	34.76	17.28	-1.55		29.11	15.07			19.30	Oct-01-10
Excess			0.03	2.32	5.03	1.76	0.26	5.28	2.60	-5.25		7.36	0.79			0.74	
BERS-TOTAL RUSSELL 1000 ACTIVE	84.5	2.11	8.10	12.30	41.32	8.48	27.71	60.88	8.41	-10.02	23.05	60.28	17.08	29.95		12.11	Apr-01-04
RUSSELL 1000 (DAILY)			4.75	4.14	18.50	1.40	21.24	33.11	16.42	1.50	16.10	26.34	14.60	23.63		7.80	Apr-01-04
Excess			3.35	8.16	22.82	7.08	6.47	27.77	-8.02	-11.52	6.95	33.94	2.48	6.32		4.31	

NYC Board of Education Retirement System

Manager / Benchmark Comparison Report

Rates of Return - Total

Periods Ending February 28, 2014

	Assets ($MM)	% of Total	Trailing 1 Month	Trailing 3 Month	FYTD	CYTD	FYE 06/30/13	CYE 12/31/13	CYE 12/31/12	CYE 12/31/11	CYE 12/31/10	Trailing 1 Year	Trailing 3 Year	Trailing 5 Year	Trailing 10 Year	ITD	Inception Date
BERS-TOTAL EMERGING MANAGER PROGRAM	149.9	3.75	4.58	3.76	22.30	1.08	26.59	40.84	17.00	-1.75	18.99	33.64	15.42	24.87		8.72	Apr-01-04
RUSSELL 3000 (DAILY)			4.74	4.11	18.77	1.43	21.46	33.55	16.42	1.03	16.93	26.74	14.58	23.86		7.87	Apr-01-04
Excess			-0.16	-0.35	3.52	-0.36	5.13	7.29	0.58	-2.78	2.06	6.90	0.83	1.01		0.85	
BERS-TOTAL INTL EQUITY	914.3	22.88	4.58	1.45	17.96	0.00	13.52	17.99	18.36	-11.84	18.25	14.17	6.87	19.84	9.20	8.37	Nov-01-92
MSCI AC WORLD ex US (NET)			5.02	1.13	15.63	0.25	13.63	15.29	16.83	-13.71	11.15	12.25	3.98	17.25	7.16		Nov-01-92
Excess			-0.44	0.31	2.34	-0.25	-0.11	2.70	1.52	1.87	7.09	1.92	2.89	2.59	2.05		
BERS - Total EAFE Equity	738.5	18.48	5.03	2.45	21.47	0.50	16.54	24.21	18.40	-10.35	17.92	19.92	9.15	20.84	9.06	8.41	Nov-01-92
MSCI EAFE NET (DAILY)			5.56	2.82	19.48	1.31	18.62	22.78	17.32	-12.14	7.75	19.28	6.63	17.60	6.66	6.86	Nov-01-92
Excess			-0.53	-0.37	1.98	-0.81	-2.09	1.43	1.09	1.79	10.17	0.63	2.51	3.24	2.41	1.56	
BERS-TOTAL ACTIVE EMERGING MARKETS	175.9	4.40	2.76	-2.57	4.79	-2.03	1.53	-4.70	18.12	-17.86	19.85	-6.80	-2.01	16.20		9.85	Apr-01-04
MSCI EMERGING MARKETS			3.31	-4.79	4.05	-3.40	2.87	-2.60	18.22	-18.42	18.88	-6.01	-1.99	16.88		9.86	Apr-01-04
Excess			-0.56	2.22	0.74	1.37	-1.33	-2.10	-0.11	0.57	0.97	-0.79	-0.02	-0.68		-0.02	
FIXED INCOME ASSET CLASS SUMMARY																	
BERS-TOTAL FIXED INCOME	1,027.7	25.72	0.99	2.27	4.34	2.55	1.65	-0.57	8.55	9.42	9.39	1.69	6.14	8.77		5.98	Apr-01-04
BERS-TOTAL STRUCTURED	578.2	14.47	0.75	1.98	3.20	2.55	-0.01	-2.38	6.68	9.23	8.36	0.28	5.05	6.92	5.34	8.20	Jan-01-85
NYC - Core Plus Five			0.71	1.98	3.02	2.57	-0.95	-2.79	5.41	9.40	7.13	0.11	4.63	5.80	5.16		Jan-01-85
Excess			0.04	0.00	0.18	-0.02	0.93	0.41	1.27	-0.17	1.23	0.17	0.42	1.12	0.18		
BERS-TOTAL MORTGAGE	243.7	6.10	0.35	1.28	2.33	1.99	-0.24	-1.73	4.48	6.30	7.84	0.19	3.37	5.38	5.13		Apr-01-87
CITIGROUP MORTGAGE INDEX			0.34	1.48	2.52	2.00	-1.15	-1.52	2.60	6.38	5.50	0.60	2.96	3.96	4.70		Apr-01-87
Excess			0.01	-0.21	-0.20	-0.02	0.91	-0.21	1.88	-0.08	2.35	-0.41	0.41	1.41	0.42		
BERS-TOTAL INVESTMENT GRADE CREDIT	245.9	6.15	1.26	2.71	4.83	2.76	2.29	-1.07	10.36	8.34	9.02	1.72	6.39	10.65	5.14	7.78	Apr-01-87
NYC - Investment Grade Credit			1.12	2.46	4.33	2.60	1.19	-1.85	9.52	7.79	8.36	1.08	5.65	8.69	5.15		Apr-01-87
Excess			0.14	0.25	0.51	0.17	1.10	0.78	0.83	0.55	0.66	0.64	0.74	1.96	-0.02		
BERS-TOTAL GOVERNMENT	88.7	2.22	0.43	1.90	1.22	3.53	-4.81	-7.49	3.95	18.52	8.93	-3.25	5.78	5.02	5.53	7.81	May-01-87
NYC - Treasury Agency Plus Five			0.52	1.85	1.05	3.71	-4.52	-7.48	3.84	18.44	9.24	-3.12	5.80	4.96	5.57		May-01-87
Excess			-0.10	0.05	0.16	-0.18	-0.29	-0.01	0.11	0.08	-0.32	-0.13	-0.02	0.07	-0.03		
BERS-TOTAL HIGH YIELD	211.9	5.30	2.33	4.25	9.82	3.21	9.75	8.39	15.68	6.25	15.01	10.09	9.66	16.91	8.65	6.43	Aug-01-97
CITIGROUP BB & B			2.01	3.18	8.18	2.71	8.11	6.17	14.45	6.58	13.35	7.59	8.77	15.16	7.22	6.48	Aug-01-97
Excess			0.32	1.07	1.65	0.50	1.64	2.22	1.23	-0.33	1.66	2.50	0.89	1.75	1.43	-0.04	
BERS-TOTAL BANK LOANS	82.0	2.05	0.26	1.53	4.68	0.96		6.33				5.76				5.38	Sep-01-12
CSFB LEVERAGED LOAN INDEX			0.22	1.47	4.21	0.93		6.15				5.54				6.54	Sep-01-12
Excess			0.04	0.06	0.47	0.03		0.18				0.22				-1.16	
BERS-TOTAL ACTIVE TIPS MANAGERS	136.9	3.43	0.51	1.08	1.26	2.60	-4.30	-8.52	7.67	13.34	6.57	-5.87	4.36	6.47		4.82	Jun-01-05
Barclays Global Inflation Linked: US TIPS (Daily)			0.45	0.93	1.09	2.43	-4.78	-8.61	6.98	13.56	6.31	-5.78	4.02	6.20		4.60	Jun-01-05

NYC Board of Education Retirement System

Manager / Benchmark Comparison Report

Rates of Return - Total

Periods Ending February 28, 2014

	Assets ($MM)	% of Total	Trailing 1 Month	Trailing 3 Month	FYTD	CYTD	FYE 06/30/13	CYE 12/31/13	CYE 12/31/12	CYE 12/31/11	CYE 12/31/10	Trailing 1 Year	Trailing 3 Year	Trailing 5 Year	Trailing 10 Year	ITD	Inception Date
Excess			0.06	0.15	0.17	0.17	0.47	0.09	0.69	-0.22	0.26	-0.10	0.35	0.27		0.21	
BERS-TOTAL TARGETED	18.7	0.47	0.46	1.44	2.39	2.06	-0.38	-1.73	4.34	7.13	5.80	0.25	3.67	4.63			Dec-01-84
BERS Custom Benchmark (No Cash)			0.45	1.33	2.33	1.90	-0.60	-1.71	3.74	7.09	5.98	0.30	3.51	4.52			Dec-01-84
Excess			0.01	0.11	0.05	0.16	0.21	-0.02	0.60	0.04	-0.18	-0.05	0.16	0.11			
CASH ASSET CLASS SUMMARY																	
BERS-TOTAL CASH	41.3	1.03	0.01	0.04	0.68	0.03	-0.09	0.29	0.54	0.59	0.47	0.29	0.46	0.61		2.35	Apr-01-04
91 DAY TREASURY BILL (DAILY)			0.00	0.02	0.04	0.01	0.11	0.07	0.11	0.10	0.13	0.08	0.09	0.12		1.68	Apr-01-04
Excess			0.01	0.02	0.64	0.02	-0.20	0.22	0.43	0.49	0.34	0.21	0.37	0.49		0.67	
US EQUITY																	
BERS-TOTAL SMALL CAP	141.2	3.53	5.17	4.45	23.94	2.08	33.60	44.74	19.91	-10.17	21.37	35.74	14.16	25.46	7.25	9.73	Sep-01-02
Russell 2000 TR			4.71	3.82	21.99	1.81	24.21	38.82	16.35	-4.18	26.85	31.56	14.41	26.63	8.71	11.57	Sep-01-02
Excess			0.45	0.64	1.95	0.26	9.39	5.92	3.56	-5.99	-5.48	4.18	-0.25	-1.17	-1.46	-1.84	
BERS-TOTAL SMALL CAP PASSIVE	106.9	2.67	4.70	3.97		1.80										10.91	Oct-01-13
Russell 2000 TR			4.71	3.82		1.81										10.69	Oct-01-13
Excess			-0.01	0.16		-0.01										0.22	
NYC BERS BLACKROCK R2000 GROWTH	55.2	1.38	4.82	5.36		3.02										11.79	Oct-01-13
RUSSELL 2000 GROWTH DAILY			4.83	5.13		3.02										11.44	Oct-01-13
Excess			-0.01	0.23		-0.01										0.35	
NYC BERS BLACKROCK R2000 VALUE	51.6	1.29	4.57	2.53		0.54										9.99	Oct-01-13
RUSSELL 2000 VALUE DAILY			4.58	2.43		0.53										9.88	Oct-01-13
Excess			-0.01	0.10		0.01										0.11	
BERS-TOTAL SMALL CAP ACTIVE	34.3	0.86	6.65	5.98	24.81	2.94	33.60	44.54	19.91	-10.17	21.37	36.70	14.43	25.64		7.43	Apr-01-04
Russell 2000 TR			4.71	3.82	21.99	1.81	24.21	38.82	16.35	-4.18	26.85	31.56	14.41	26.63		8.68	Apr-01-04
Excess			1.94	2.17	2.82	1.13	9.39	5.72	3.56	-5.99	-5.48	5.13	0.01	-0.99		-1.25	
BERS-TOTAL SMALL CAP CORE	34.3	0.86	6.65	5.98	24.81	2.94	33.60	44.54	19.91	-10.17		36.70	14.43			17.82	Apr-01-10
Russell 2000 TR			4.71	3.82	21.99	1.81	24.21	38.82	16.35	-4.18		31.56	14.41			16.80	Apr-01-10
Excess			1.94	2.17	2.82	1.13	9.39	5.72	3.56	-5.99		5.13	0.01			1.02	
Daruma Small Cap-Core	34.3	0.86	6.65	5.98	24.81	2.94	33.60	44.54	19.91	-10.17		36.70	14.43			17.82	Apr-01-10
Russell 2000 TR			4.71	3.82	21.99	1.81	24.21	38.82	16.35	-4.18		31.56	14.41			16.80	Apr-01-10
Excess			1.94	2.17	2.82	1.13	9.39	5.72	3.56	-5.99		5.13	0.01			1.02	
BERS-TOTAL MID CAP	201.9	5.05	5.52	7.95	23.68	4.48	25.48	37.52	19.12	-5.53		32.67	15.23			19.30	Oct-01-10

NYC Board of Education Retirement System

Manager / Benchmark Comparison Report

Rates of Return - Total

Periods Ending February 28, 2014

	Assets ($MM)	% of Total	Trailing 1 Month	Trailing 3 Month	FYTD	CYTD	FYE 06/30/13	CYE 12/31/13	CYE 12/31/12	CYE 12/31/11	CYE 12/31/10	Trailing 1 Year	Trailing 3 Year	Trailing 5 Year	Trailing 10 Year	ITD	Inception Date
RUSSELL MIDCAP (DAILY)			5.87	6.90	21.17	3.81	25.41	34.76	17.28	-1.55		29.11	15.07			19.30	Oct-01-10
Excess			-0.34	1.05	2.51	0.68	0.07	2.76	1.84	-3.98		3.56	0.16			0.00	
State St GA SP 400	73.7	1.85	4.87	5.81	19.54	2.65	25.17	33.46	17.89			26.54	14.17			15.48	Feb-01-11
S&P400MIDCAPINDEX(DAILY)			4.88	5.83	19.60	2.66	25.18	33.50	17.88			26.58	14.14			15.46	Feb-01-11
Excess			-0.01	-0.02	-0.06	0.00	-0.01	-0.04	0.01			-0.03	0.02			0.01	
BERS-TOTAL MID CAP ACTIVE	128.1	3.21	5.90	9.21	26.20	5.57	25.66	40.05	19.88	-6.79		36.47	15.86			20.04	Oct-01-10
RUSSELL MIDCAP (DAILY)			5.87	6.90	21.17	3.81	25.41	34.76	17.28	-1.55		29.11	15.07			19.30	Oct-01-10
Excess			0.03	2.32	5.03	1.76	0.26	5.28	2.60	-5.25		7.36	0.79			0.74	
Wellington Mgmt MCC	128.1	3.21	5.90	9.21	26.20	5.57	25.66	40.05	19.88	-6.79		36.47	15.86			20.04	Oct-01-10
S&P400MIDCAPINDEX(DAILY)			4.88	5.83	19.60	2.66	25.18	33.50	17.88	-1.73		26.58	14.14			18.83	Oct-01-10
Excess			1.02	3.39	6.60	2.91	0.48	6.54	2.00	-5.06		9.89	1.72			1.22	
BERS-TOTAL RUSSELL 1000	1,296.2	32.44	4.94	4.67	33.81	1.82	31.80	62.18	14.87	-1.64	16.72	51.76	20.38	27.57	10.38	10.23	Sep-01-93
RUSSELL 1000 (DAILY)			4.75	4.14	18.50	1.40	21.24	33.11	16.42	1.50	16.10	26.34	14.60	23.63	7.58	9.29	Sep-01-93
Excess			0.19	0.54	15.31	0.42	10.57	29.07	-1.56	-3.14	0.62	25.42	5.77	3.94	2.80	0.94	
BERS-RUSSELL 1000 PASSIVE	1,211.7	30.32	4.73	4.18		1.39										11.78	Oct-01-13
RUSSELL 1000 GROWTH - DAILY			5.15	5.07		2.15										12.81	Oct-01-13
Excess			-0.42	-0.89		-0.76										-1.03	
NYC BERS BLACKROCK R1000 GROWTH	621.3	15.55	5.13	5.11		2.14										12.91	Oct-01-13
RUSSELL 1000 GROWTH - DAILY			5.15	5.07		2.15										12.81	Oct-01-13
Excess			-0.02	0.04		-0.01										0.10	
NYC BERS BLACKROCK R1000 VALUE	590.5	14.78	4.31	3.22		0.61										10.62	Oct-01-13
RUSSELL 1000 VALUE (DAILY)			4.32	3.17		0.62										10.69	Oct-01-13
Excess			-0.02	0.05		-0.01										-0.07	
BERS-TOTAL RUSSELL 1000 GROWTH	84.5	2.11	8.10	12.30	41.32	8.48	27.71	60.88	8.41	-8.93	17.52	60.28	17.08	26.96	9.97	10.03	Sep-01-93
RUSSELL 1000 GROWTH - DAILY			5.15	5.07	21.96	2.15	17.07	33.48	15.26	2.64	16.71	29.14	15.06	24.02	7.77	8.57	Sep-01-93
Excess			2.95	7.23	19.36	6.33	10.64	27.40	-6.85	-11.57	0.81	31.14	2.02	2.93	2.20	1.46	
Zevenbergen ACG	84.5	2.11	8.10	12.30	41.32	8.48	27.71	60.88	8.41	-10.02	23.05	60.28	17.08	29.95	11.82	11.44	Mar-01-93
RUSSELL 3000 GROWTH (DAILY)			5.12	5.07	22.26	2.22	17.56	34.23	15.21	2.18	17.64	29.76	15.13	24.33	7.89	8.41	Mar-01-93
Excess			2.98	7.22	19.06	6.26	10.15	26.65	-6.80	-12.20	5.41	30.52	1.96	5.62	3.94	3.03	
BERS-TOTAL EMERGING MANAGER PROGRAM	149.9	3.75	4.58	3.76	22.30	1.08	26.59	40.84	17.00	-1.75	18.99	33.64	15.42	24.87		8.72	Apr-01-04
RUSSELL 3000 (DAILY)			4.74	4.11	18.77	1.43	21.46	33.55	16.42	1.03	16.93	26.74	14.58	23.86		7.87	Apr-01-04
Excess			-0.16	-0.35	3.52	-0.36	5.13	7.29	0.58	-2.78	2.06	6.90	0.83	1.01		0.85	
BERS-TOTAL FIS	76.2	1.91	3.87	2.62	21.56	0.37	31.34	43.42	17.35	-2.62	27.68	34.19	15.60	26.73		7.76	Jan-01-08

NYC Board of Education Retirement System

Manager / Benchmark Comparison Report

Rates of Return - Total

Periods Ending February 28, 2014

	Assets ($MM)	% of Total	Trailing 1 Month	Trailing 3 Month	FYTD	CYTD	FYE 06/30/13	CYE 12/31/13	CYE 12/31/12	CYE 12/31/11	CYE 12/31/10	Trailing 1 Year	Trailing 3 Year	Trailing 5 Year	Trailing 10 Year	ITD	Inception Date
Russell 2000 TR			4.71	3.82	21.99	1.81	24.21	38.82	16.35	-4.18	26.85	31.56	14.41	26.63		8.82	Jan-01-08
Excess			-0.84	-1.19	-0.44	-1.44	7.14	4.60	1.00	1.55	0.83	2.63	1.19	0.10		-1.06	
BERS-TOTAL PROGRESS	73.7	1.85	5.33	4.96	23.07	1.81	22.95	37.64	16.87	-1.43	16.04	31.92	14.90	23.93	8.40	5.87	May-01-99
RUSSELL 3000 (DAILY)			4.74	4.11	18.77	1.43	21.46	33.55	16.42	1.03	16.93	26.74	14.58	23.86	7.67	4.93	May-01-99
Excess			0.59	0.85	4.30	0.38	1.49	4.09	0.45	-2.45	-0.89	5.18	0.32	0.07	0.73	0.94	
NON - US EQUITY																	
BERS-TOTAL DEVELOPED VALUE	304.5	7.62	5.01	1.40	15.56	0.40	14.07	16.94	17.84	-9.92	18.56	14.39	6.92	18.48		8.30	Aug-01-04
MSCI EAFE VALUE NET (DAILY)			5.63	3.24	21.90	1.86	18.56	22.95	17.69	-12.17	3.25	21.15	6.20	17.86		6.84	Aug-01-04
Excess			-0.62	-1.83	-6.34	-1.46	-4.49	-6.01	0.15	2.26	15.31	-6.76	0.72	0.62		1.45	
Sprucegrove MTA (BOE)	304.5	7.62	5.01	1.40	15.56	0.40	14.07	16.94	17.84	-9.92	18.56	14.39	6.92	18.48		8.30	Aug-01-04
MSCI EAFE VALUE NET (DAILY)			5.63	3.24	21.90	1.86	18.56	22.95	17.69	-12.17	3.25	21.15	6.20	17.86		6.84	Aug-01-04
Excess			-0.62	-1.83	-6.34	-1.46	-4.49	-6.01	0.15	2.26	15.31	-6.76	0.72	0.62		1.45	
BERS-TOTAL DEVELOPED GROWTH	350.8	8.78	4.85	2.07	25.15	-0.39	17.89	29.53	18.88	-10.71	17.36	22.87	10.38	22.49		5.74	Aug-01-07
MSCI EAFE GROWTH NET (DAILY)			5.49	2.41	17.08	0.76	18.67	22.55	16.86	-12.11	12.25	17.42	7.01	17.31		1.55	Aug-01-07
Excess			-0.64	-0.34	8.07	-1.14	-0.78	6.98	2.02	1.40	5.12	5.46	3.37	5.18		4.19	
Baillie Gifford MTA	350.8	8.78	4.85	2.07	25.15	-0.39	17.89	29.53	18.88	-10.71	17.36	22.87	10.38	22.49		5.74	Aug-01-07
MSCI EAFE GROWTH NET (DAILY)			5.49	2.41	17.08	0.76	18.67	22.55	16.86	-12.11	12.25	17.42	7.01	17.31		1.55	Aug-01-07
Excess			-0.64	-0.34	8.07	-1.14	-0.78	6.98	2.02	1.40	5.12	5.46	3.37	5.18		4.19	
BERS-TOTAL EAFE SMALL CAP	83.2	2.08	5.85	8.26	29.68	4.80										21.63	May-01-13
S&P EPAC Small Cap Index			5.65	6.67	26.87	4.19										19.93	May-01-13
Excess			0.19	1.59	2.80	0.61										1.70	
Acadian	83.2	2.08	5.85	8.26	29.68	4.80										21.63	May-01-13
S&P EPAC Small Cap Index			5.65	6.67	26.87	4.19										19.93	May-01-13
Excess			0.19	1.59	2.80	0.61										1.70	
BERS-TOTAL ACTIVE EAFE EQUITY	738.5	18.48	5.03	2.45	21.47	0.50	16.54	24.21	18.40	-10.35	17.92	19.92	9.15	20.84	9.08	8.71	Nov-01-92
MSCI EAFE NET (DAILY)			5.56	2.82	19.48	1.31	18.62	22.78	17.32	-12.14	7.75	19.28	6.63	17.60	6.66	6.86	Nov-01-92
Excess			-0.53	-0.37	1.98	-0.81	-2.09	1.43	1.09	1.79	10.17	0.63	2.51	3.24	2.42	1.85	
EMERGING MARKETS																	
BERS-TOTAL EMERGING (INTL)	175.9	4.40	2.76	-2.57	4.93	-2.03	1.83	-4.27	18.15	-18.03	19.85	-6.38	-1.94	16.26	9.91	8.40	Nov-01-97
MSCI EMERGING MARKETS			3.31	-4.79	4.05	-3.40	2.87	-2.60	18.22	-18.42	18.88	-6.01	-1.99	16.88	9.91		Nov-01-97
Excess			-0.56	2.22	0.88	1.37	-1.04	-1.67	-0.08	0.39	0.97	-0.37	0.05	-0.62	-0.01		
BERS-TOTAL ACTIVE EMERGING MARKETS	175.9	4.40	2.76	-2.57	4.79	-2.03	1.53	-4.70	18.12	-17.86	19.85	-6.80	-2.01	16.20		9.85	Apr-01-04
MSCI EMERGING MARKETS			3.31	-4.79	4.05	-3.40	2.87	-2.60	18.22	-18.42	18.88	-6.01	-1.99	16.88		9.86	Apr-01-04
Excess			-0.56	2.22	0.74	1.37	-1.33	-2.10	-0.11	0.57	0.97	-0.79	-0.02	-0.68		-0.02	
ACADIAN	175.9	4.40	2.76	-2.57	4.79	-2.03						-5.25				-5.25	Mar-01-13

NYC Board of Education Retirement System

Manager / Benchmark Comparison Report

Rates of Return - Total

Periods Ending February 28, 2014

	Assets ($MM)	% of Total	Trailing 1 Month	Trailing 3 Month	FYTD	CYTD	FYE 06/30/13	CYE 12/31/13	CYE 12/31/12	CYE 12/31/11	CYE 12/31/10	Trailing 1 Year	Trailing 3 Year	Trailing 5 Year	Trailing 10 Year	ITD	Inception Date
MSCI EMERGING MARKETS			3.31	-4.79	4.05	-3.40						-6.01				-6.01	Mar-01-13
Excess			-0.56	2.22	0.74	1.37						0.76				0.76	
BERS-TOTAL INTL EQUITY	914.3	22.88	4.58	1.45	17.96	0.00	13.52	17.99	18.36	-11.84	18.25	14.17	6.87	19.84	9.20	8.37	Nov-01-92
MSCI AC WORLD ex US (NET)			5.02	1.13	15.63	0.25	13.63	15.29	16.83	-13.71	11.15	12.25	3.98	17.25	7.16		Nov-01-92
Excess			-0.44	0.31	2.34	-0.25	-0.11	2.70	1.52	1.87	7.09	1.92	2.89	2.59	2.05		
FIXED INCOME																	
BERS-TOTAL STRUCTURED	578.2	14.47	0.75	1.98	3.20	2.55	-0.01	-2.38	6.68	9.23	8.36	0.28	5.05	6.92	5.34	8.20	Jan-01-85
NYC - Core Plus Five			0.71	1.98	3.02	2.57	-0.95	-2.79	5.41	9.40	7.13	0.11	4.63	5.80	5.16		Jan-01-85
Excess			0.04	0.00	0.18	-0.02	0.93	0.41	1.27	-0.17	1.23	0.17	0.42	1.12	0.18		
BERS-TOTAL MORTGAGE	243.7	6.10	0.35	1.28	2.33	1.99	-0.24	-1.73	4.48	6.30	7.84	0.19	3.37	5.38	5.13	7.30	Apr-01-87
CITIGROUP MORTGAGE INDEX			0.34	1.48	2.52	2.00	-1.15	-1.52	2.60	6.38	5.50	0.60	2.96	3.96	4.70	6.81	Apr-01-87
Excess			0.01	-0.21	-0.20	-0.02	0.91	-0.21	1.88	-0.08	2.35	-0.41	0.41	1.41	0.42	0.49	
PIMCO - Mortgage	243.7	6.10	0.35	1.28	2.33	1.99	-0.24	-1.73	4.48	6.30	7.84	0.19	3.37	5.38	5.13	7.30	Apr-01-87
CITIGROUP MORTGAGE INDEX			0.34	1.48	2.52	2.00	-1.15	-1.52	2.60	6.38	5.50	0.60	2.96	3.96	4.70	6.81	Apr-01-87
Excess			0.01	-0.21	-0.20	-0.02	0.91	-0.21	1.88	-0.08	2.35	-0.41	0.41	1.41	0.42	0.49	
BERS-TOTAL INVESTMENT GRADE CREDIT	245.9	6.15	1.26	2.71	4.83	2.76	2.29	-1.07	10.36	8.34	9.02	1.72	6.39	10.65	5.14	7.78	Apr-01-87
NYC - Investment Grade Credit			1.12	2.46	4.33	2.60	1.19	-1.85	9.52	7.79	8.36	1.08	5.65	8.69	5.15		Apr-01-87
Excess			0.14	0.25	0.51	0.17	1.10	0.78	0.83	0.55	0.66	0.64	0.74	1.96	-0.02		
Prudential - Credit	131.9	3.30	1.06	2.63	4.74	2.71	1.44	-1.21	9.51	8.00	8.72	1.61	6.02			7.01	Aug-01-09
NYC - Investment Grade Credit			1.12	2.46	4.33	2.60	1.19	-1.85	9.52	7.79	8.36	1.08	5.65			6.71	Aug-01-09
Excess			-0.06	0.17	0.41	0.12	0.25	0.64	-0.01	0.20	0.36	0.54	0.37			0.30	
Taplin Canida Habacht - Credit	98.9	2.48	1.72	3.41	5.50	3.26	3.19	-1.04	11.51	8.83	9.43	2.23	6.99	11.14	5.37	7.12	Jan-01-93
NYC - Investment Grade Credit			1.12	2.46	4.33	2.60	1.19	-1.85	9.52	7.79	8.36	1.08	5.65	8.69	5.15	6.58	Jan-01-93
Excess			0.60	0.96	1.17	0.66	2.00	0.81	1.99	1.04	1.07	1.15	1.33	2.45	0.22	0.54	
Prudential-Privest - Credit	15.0	0.38	0.00	-1.01	1.41	0.00		0.00				-0.64				0.00	Jan-01-13
NYC - Investment Grade Credit			1.12	2.46	4.33	2.60		-1.85				1.08				0.60	Jan-01-13
Excess			-1.12	-3.47	-2.92	-2.60		1.85				-1.72				-0.60	
BERS-TOTAL GOVERNMENT	88.7	2.22	0.43	1.90	1.22	3.53	-4.81	-7.49	3.95	18.52	8.93	-3.25	5.78	5.02	5.53	7.81	May-01-87
NYC - Treasury Agency Plus Five			0.52	1.85	1.05	3.71	-4.52	-7.48	3.84	18.44	9.24	-3.12	5.80	4.96	5.57		May-01-87
Excess			-0.10	0.05	0.16	-0.18	-0.29	-0.01	0.11	0.08	-0.32	-0.13	-0.02	0.07	-0.03		
State Street Govt	88.7	2.22	0.43	1.90	1.22	3.53	-4.81	-7.49	3.95	18.52	8.93	-3.25	5.78	5.02	5.67	7.20	Jan-01-93
NYC - Treasury Agency Plus Five			0.52	1.85	1.05	3.71	-4.52	-7.48	3.84	18.44	9.24	-3.12	5.80	4.96	5.57	7.10	Jan-01-93
Excess			-0.10	0.05	0.16	-0.18	-0.29	-0.01	0.11	0.08	-0.32	-0.13	-0.02	0.07	0.11	0.10	
HIGH YIELD																	
BERS-TOTAL HIGH YIELD	211.9	5.30	2.33	4.25	9.82	3.21	9.75	8.39	15.68	6.25	15.01	10.09	9.66	16.91	8.65	6.43	Aug-01-97
CITIGROUP BB & B			2.01	3.18	8.18	2.71	8.11	6.17	14.45	6.58	13.35	7.59	8.77	15.16	7.22	6.48	Aug-01-97
Excess			0.32	1.07	1.65	0.50	1.64	2.22	1.23	-0.33	1.66	2.50	0.89	1.75	1.43	-0.04	

NYC Board of Education Retirement System

Manager / Benchmark Comparison Report

Rates of Return - Total

Periods Ending February 28, 2014

	Assets ($MM)	% of Total	Trailing 1 Month	Trailing 3 Month	FYTD	CYTD	FYE 06/30/13	CYE 12/31/13	CYE 12/31/12	CYE 12/31/11	CYE 12/31/10	Trailing 1 Year	Trailing 3 Year	Trailing 5 Year	Trailing 10 Year	ITD	Inception Date
Loomis Sayles - High Yield	114.5	2.87	2.66	4.39	10.27	3.72	12.38	9.95	17.52	7.14	15.79	11.48	11.14	19.69	9.79	8.20	Aug-01-97
NYC-Loomis (BoA MLMSTII 7-03/BB&B PRIOR)			2.00	3.32	8.75	2.76	9.57	7.42	15.58	4.38	15.19	8.38	8.78	18.91	8.59	7.36	Aug-01-97
Excess			0.65	1.07	1.52	0.96	2.82	2.54	1.94	2.75	0.60	3.10	2.36	0.78	1.20	0.85	
Shenkman - High Yield	97.4	2.44	1.95	4.09	9.30	2.61		6.63				8.51				9.02	Sep-01-12
CITIGROUP BB & B			2.01	3.18	8.18	2.71		6.17				7.59				8.90	Sep-01-12
Excess			-0.06	0.90	1.12	-0.10		0.46				0.92				0.13	
BANK LOANS																	
BERS-TOTAL BANK LOANS	82.0	2.05	0.26	1.53	4.68	0.96		6.33				5.76				6.49	Dec-01-12
CSFB LEVERAGED LOAN INDEX			0.22	1.47	4.21	0.93		6.15				5.54				6.31	Dec-01-12
Excess			0.04	0.06	0.47	0.03		0.18				0.22				0.18	
Babson BL	82.0	2.05	0.26	1.53	4.68	0.96		6.33				5.76				6.49	Dec-01-12
CSFB LEVERAGED LOAN INDEX			0.22	1.47	4.21	0.93		6.15				5.54				6.31	Dec-01-12
Excess			0.04	0.06	0.47	0.03		0.18				0.22				0.18	
BERS-TOTAL ACTIVE TIPS MANAGERS	136.9	3.43	0.51	1.08	1.26	2.60	-4.30	-8.52	7.67	13.34	6.57	-5.87	4.36	6.47		4.82	Jun-01-05
Barclays Global Inflation Linked: US TIPS (Daily)			0.45	0.93	1.09	2.43	-4.78	-8.61	6.98	13.56	6.31	-5.78	4.02	6.20		4.60	Jun-01-05
Excess			0.06	0.15	0.17	0.17	0.47	0.09	0.69	-0.22	0.26	-0.10	0.35	0.27		0.21	
PIMCO TIPS MTA	136.9	3.43	0.51	1.08	1.26	2.60	-4.30	-8.52	7.67	13.34	6.57	-5.87	4.36	6.47		4.82	Jun-01-05
Barclays Global Inflation Linked: US TIPS (Daily)			0.45	0.93	1.09	2.43	-4.78	-8.61	6.98	13.56	6.31	-5.78	4.02	6.20		4.60	Jun-01-05
Excess			0.06	0.15	0.17	0.17	0.47	0.09	0.69	-0.22	0.26	-0.10	0.35	0.27		0.21	
OTHER FIXED INCOME																	
BERS-TOTAL TARGETED	18.7	0.47	0.46	1.44	2.39	2.06	-0.38	-1.73	4.34	7.13	5.80	0.25	3.67	4.63			Dec-01-84
BERS Custom Benchmark (No Cash)			0.45	1.33	2.33	1.90	-0.60	-1.71	3.74	7.09	5.98	0.30	3.51	4.52			Dec-01-84
Excess			0.01	0.11	0.05	0.16	0.21	-0.02	0.60	0.04	-0.18	-0.05	0.16	0.11			
AFL-CIO Hsg Inv Trust	11.7	0.29	0.46	1.17	2.22	1.96	-1.06	-2.37	4.27	7.86	6.16	-0.43	3.60	4.66		4.86	Dec-01-06
Barclays Aggregate (Daily)			0.53	1.44	2.46	2.02	-0.69	-2.02	4.21	7.84	6.54	0.15	3.83	5.13		4.95	Dec-01-06
Excess			-0.08	-0.27	-0.24	-0.05	-0.37	-0.35	0.06	0.02	-0.39	-0.58	-0.22	-0.47		-0.09	
Access RBC	5.3	0.13	0.39	1.23	2.00	2.10	-0.31	-2.09	4.43	6.99	5.72	0.06	3.57	4.88		5.66	Mar-01-07
Access RBC Benchmark			0.31	1.06	1.93	1.72	-0.90	-1.50	2.38	6.32	5.52	0.26	2.87	3.50		4.72	Mar-01-07
Excess			0.08	0.17	0.07	0.38	0.59	-0.58	2.06	0.66	0.20	-0.20	0.70	1.38		0.95	
CPC Term Loan	0.6	0.01	0.17	0.55	1.59	0.35	2.45	2.45	2.51	2.09	2.06	2.42	2.35	2.26		3.23	Mar-01-07
CPC Term Loan Index			0.17	0.53	1.53	0.35	2.50	2.44	2.47	2.03	2.08	2.37	2.31	2.23		3.18	Mar-01-07
Excess			0.00	0.03	0.06	0.00	-0.05	0.01	0.05	0.05	-0.01	0.05	0.04	0.03		0.04	
BERS-TOTAL PPAR	1.1	0.03	1.05	6.03	6.88	4.09	8.70	6.94	9.28	4.97	8.51	9.64	8.18	8.71		8.40	Oct-01-06
GNMA Plus 65bps			0.36	1.87	3.33	2.39	-1.53	-1.56	2.89	8.70	7.32	1.02	3.87	4.92		5.82	Oct-01-06

NYC Board of Education Retirement System

Manager / Benchmark Comparison Report

Rates of Return - Total

Periods Ending February 28, 2014

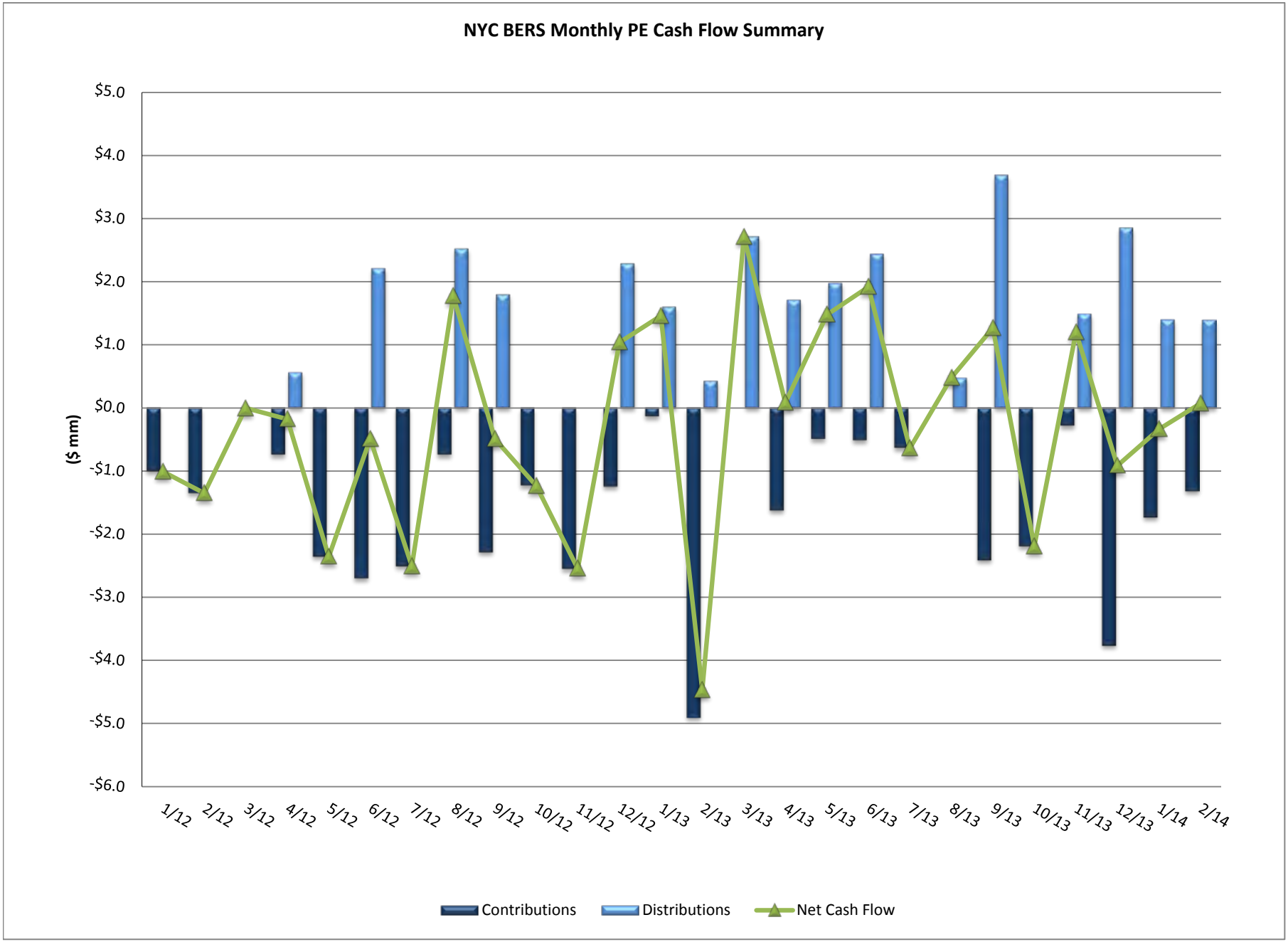
STATE STREET.

	Assets ($MM)	% of Total	Trailing 1 Month	Trailing 3 Month	FYTD	CYTD	FYE 06/30/13	CYE 12/31/13	CYE 12/31/12	CYE 12/31/11	CYE 12/31/10	Trailing 1 Year	Trailing 3 Year	Trailing 5 Year	Trailing 10 Year	ITD	Inception Date
Excess			0.69	4.16	3.55	1.70	10.23	8.50	6.39	-3.73	1.19	8.62	4.31	3.79		2.57	
CFSB-PPAR	0.1	0.00	0.99	3.58	7.15	4.63	5.55	4.28	8.16	3.29	12.80	7.85	6.53	8.28		7.56	Oct-01-06
CCD-PPAR	0.3	0.01	0.84	4.34	7.44	3.86	10.30	8.64	11.40	5.59	11.58	10.94	9.57	10.42		9.36	Dec-01-06
CPC-PPAR	0.2	0.00	2.01	14.16		4.57										14.62	Aug-01-13
JPMC-PPAR	0.0	0.00	1.04	13.60		5.49										8.47	Sep-01-13
LIIF-PPAR	0.2	0.00	0.73	2.40	6.55	3.01	8.12	7.82	6.84	4.96	4.34	9.47	7.28			6.74	Aug-01-09
NCBCI-PPAR	0.1	0.00	0.95	6.78	-8.05	4.66	10.42	-7.92	9.46	8.50	4.10	-5.09	4.36			4.52	Aug-01-09
NYC BERS LIIF-PPAR ETI MTA 2013	0.1	0.00	1.03	12.93		4.56											Jul-16-13
NYC BERS NCB-CI PPAR ETI MTA 2013	0.0	0.00	0.93	12.38		4.67											Jul-16-13
CASH																	
BERS-TOTAL CASH	41.3	1.03	0.01	0.04	0.68	0.03	-0.09	0.29	0.54	0.59	0.47	0.29	0.46	0.61		2.35	Apr-01-04
91 DAY TREASURY BILL (DAILY)			0.00	0.02	0.04	0.01	0.11	0.07	0.11	0.10	0.13	0.08	0.09	0.12		1.68	Apr-01-04
Excess			0.01	0.02	0.64	0.02	-0.20	0.22	0.43	0.49	0.34	0.21	0.37	0.49		0.67	
BERS-TOTAL CASH	41.2	1.03	0.01	0.04		0.03	-0.10	0.29	0.53	0.62	0.47	0.29	0.47	0.62		2.27	Apr-01-04
C/D - Fail Float Earnings	0.1	0.00					0.10		0.11	0.06	0.38						Apr-01-04
SECURITY LENDING	0.1	0.00															Apr-01-04
PRIVATE EQUITY																	
BERS-TOTAL PRIVATE EQUITY	118.5	2.96	0.33	3.69	10.98	0.33	7.31	15.34	7.70	19.15	13.64	14.94	14.09	8.73		1.72	Jul-01-06
NYC R3000 +3% Lagged			3.64	12.59	19.09	8.30	18.29	24.53	35.20	5.55	15.96	34.86	24.39	17.08		11.74	Jul-01-06
Excess			-3.31	-8.90	-8.12	-7.97	-10.98	-9.19	-27.50	13.60	-2.32	-19.92	-10.30	-8.35		-10.02	
REAL ASSETS																	
BERS-TOTAL REAL ASSETS	105.1	2.63	1.66	2.89	5.46	2.89	9.79	8.57	14.30	9.43		11.49	11.80			10.85	Dec-01-10
BERS-TOTAL PRIVATE REAL ESTATE	104.4	2.61	1.76	2.99	5.63	3.00	9.79	8.64	14.30	9.43		11.67	11.86			10.91	Dec-01-10
NCREIF NFI-ODCE NET + 100 BP			0.08	3.19	7.09	0.17	12.18	14.02	10.88	16.09		14.02	13.65			14.24	Dec-01-10
Excess			1.67	-0.20	-1.45	2.83	-2.39	-5.39	3.41	-6.66		-2.35	-1.79			-3.33	
BERS-TOTAL INFRASTRUCTURE	0.7	0.02	-9.87	-9.87		-9.87										-18.93	Nov-01-13
CPI + 4%			0.43	1.48		0.90										1.92	Nov-01-13
Excess			-10.29	-11.34		-10.77										-20.85	
BERS-TOTAL BOARD OF ED.	**3,996.1**	**100.00**	**3.56**	**3.29**	**14.56**	**1.66**	**12.90**	**18.78**	**13.50**	**-0.42**	**14.95**	**16.49**	**9.76**	**17.00**	**7.51**	**9.05**	**Jul-01-87**
Board of Education Policy Benchmark			3.49	3.07	13.09	1.69	13.70	17.91	14.05	0.47	13.04	15.41	9.72	17.60	7.17		Jul-01-87
Excess			0.07	0.22	1.47	-0.03	-0.80	0.87	-0.55	-0.89	1.91	1.09	0.04	-0.60	0.34		

NYC Board of Education Retirement System
Private Equity Portfolio
As of September 30, 2013 (in USD)

Vintage Year	Investment	First Drawdown	Committed Capital	Paid-In Capital	Distributed Capital	Market Value	Multiple	IRR
Active Investments								
2005	Mesirow Financial Private Equity Partnership Fund III, L.P.	7/20/2006	$ 57,000,000	$ 52,243,273	$ 22,441,092	$ 51,578,461	1.42x	7.62%
2006	Mesirow Financial Private Equity Partnership Fund IV, L.P.	3/31/2008	25,000,000	18,467,233	3,128,759	19,772,115	1.24x	6.91%
2006	New York Fairview Private Equity Fund, L.P.	7/14/2006	19,000,000	15,814,680	5,221,393	13,996,463	1.22x	5.38%
2009	Mesirow Financial Private Equity Partnership Fund V, L.P.	3/7/2011	45,000,000	20,264,326	2,033,886	21,856,600	1.18x	11.79%
2012	Warburg Pincus Private Equity XI, L.P.	7/17/2012	25,000,000	5,010,550	116,250	5,418,058	1.10x	9.50%
2012	Platinum Equity Capital Partners III, L.P.	1/14/2013	15,000,000	4,055,087	2,556,083	2,192,819	1.17x	34.16%
2012	Carlyle Partners VI, L.P.	7/3/2013	20,000,000	137,685	-	53,488	0.39x	(61.15%)
2012	Carlyle Partners VI, L.P. - Side Car	N/A	2,200,000	-	-	-	0.00x	N/A
2013	Landmark Equity Partners XV, L.P.	N/A	19,000,000	-	-	-	0.00x	N/A
2013	Landmark Equity Partners XV, L.P. - Side Car	N/A	6,000,000	-	-	-	0.00x	N/A
2013	Apollo Investment Fund VIII, L.P.	N/A	20,000,000	-	-	-	0.00x	N/A
2013	CVC Capital Partners VI, L.P.	N/A	20,797,479	-	-	-	0.00x	N/A
Total Portfolio			**$ 273,997,479**	**$ 115,992,834**	**$ 35,497,463**	**$ 114,868,004**	**1.30x**	**7.57%**

Note: Where available, September 30, 2013 reported valuations were used. In the absense of September 30, 2013 reported values, market values have been adjusted forward using interim cashflows through September 30, 2013. The IRR calculated in the early years of a fund is not meaningful given the j-curve effect. The aggregate portfolio performance figures for IRR and multiple are as of September 30, 2013.


NYC BERS Monthly PE Cash Flow Summary
($ mm)
$5.0
$4.0
$3.0
$2.0
$1.0
$0.0
-$1.0
-$2.0
-$3.0
-$4.0
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-$6.0
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2/14
Contributions
Distributions
Net Cash Flow

The Townsend Group®

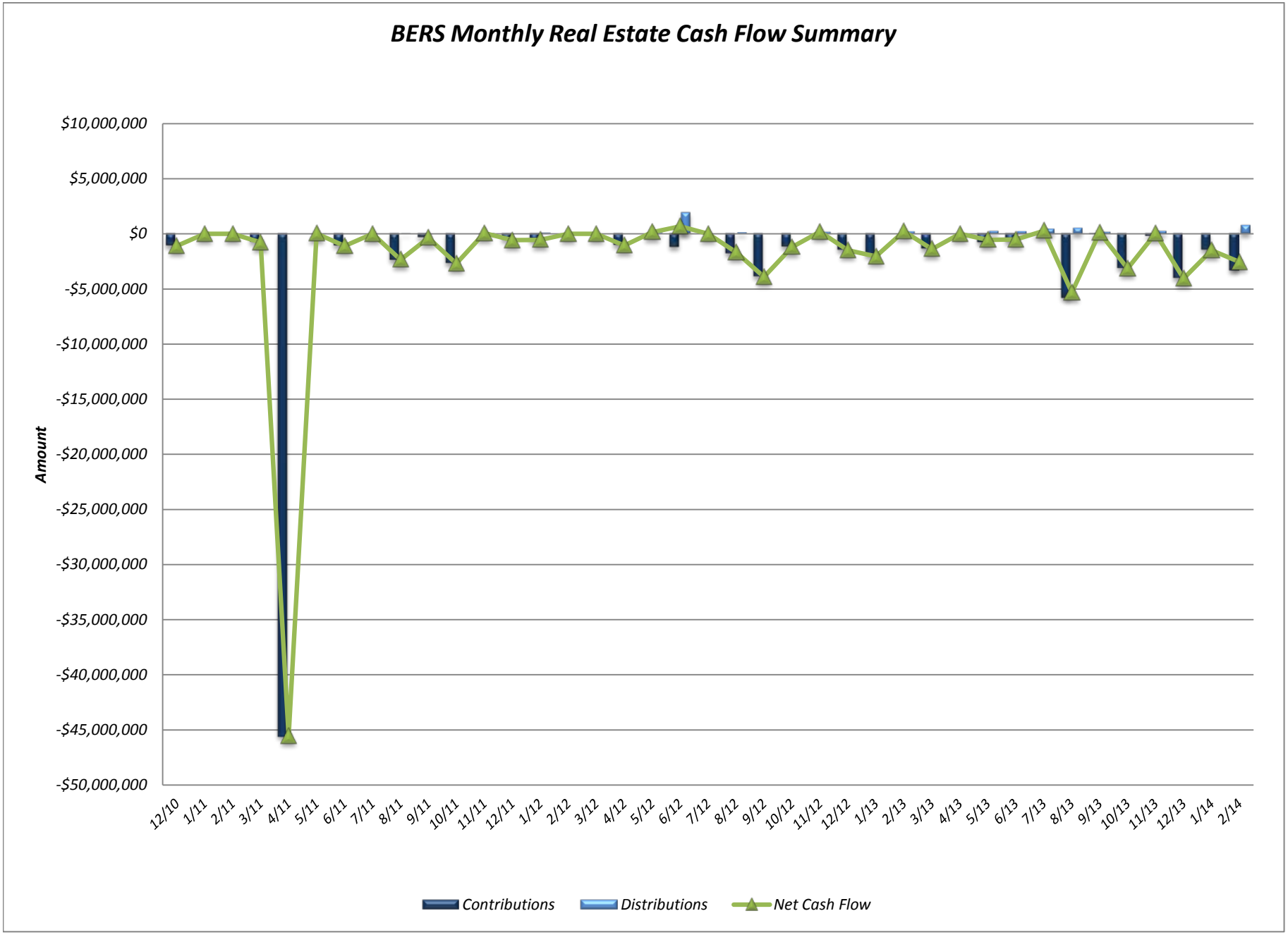
New York City Board of Education Retirement System

Vintage Year	Fund Name	First Draw Down	Capital Committed	Contributions	Distributions	Market Value	Equity Multiple	Net IRR
2011	UBS Trumbull Property Fund ("UBS-TPF")	4/1/2011	$41,400,000	$46,808,224	($4,294,057)	$53,886,134	1.2	10.1%
2011	LaSalle Property Fund	12/13/2010	$27,600,000	$23,139,430	($1,419,944)	$25,784,356	1.2	12.5%
2013	NYC Asset Investor #2 LLC - Related	7/9/2013	$11,000,000	$187,710	$0	$174,425	0.9	-27.6%
	Core/Core Plus Portfolio		**$80,000,000**	**$70,135,364**	**($5,714,000)**	**$79,844,914**	**1.2**	**10.6%**
2011	Franklin Templeton Private Real Estate Fund	3/31/2011	$30,000,000	$7,206,523	($985,834)	$6,781,197	1.1	5.6%
2012	Brookfield Strategic Real Estate Partners	9/20/2012	$10,000,000	$2,514,535	$0	$2,736,603	1.1	15.6%
2013	NYC Asset Investor #1 LLC - Emmes	6/25/2013	$10,000,000	$758,428	$0	$748,285	1.0	-4.9%
2013	NYC Asset Investor #3 LLC - Hudson	9/20/2013	$8,000,000	$62,475	$0	$61,686	1.0	-37.1%
	Non-Core Portfolio		**$58,000,000**	**$10,541,961**	**($985,834)**	**$10,327,771**	**1.1**	**6.6%**
	New York City Board of Education Retirement System		**$138,000,000**	**$80,677,325**	**($6,699,834)**	**$90,172,685**	**1.2**	**10.3%**

Funds Closed Subsequent to Quarter

Vintage	Fund Name	First Draw Down	Capital Committed	Contributions				
2013	Blackstone Real Estate Partners Europe IV		$25,000,000	-	-	-	-	-
Grand Total			**$25,000,000**					

Source: PCG historical cash flow data. TTG cash flow data from Fund Managers, effective 2005. Note: The equity multiples and IRRs contained in this report are interim calculations based upon information provided by the investment managers of the New York City Retirement Systems, including cash flows and quarterly unaudited, or audited, valuations. The IRR calculated in early years of a fund life is not meaningful given the J-curve effect and can be significantly impacted by the timing of cash flows, investment strategy, investment pacing, and fund life. The calculations are not necessarily indicative of total fund performance, which can only be determined after the fund is liquidated and all capital contributed and earnings have been distributed to the investor. All data supplied is as of September 30, 2013. Note: The General Partner of the JPMorgan Urban Renaissance Fund terminated the Fund on February 23, 2010 and all capital contributed, including management fees, was returned to investors.


BERS Monthly Real Estate Cash Flow Summary
$10,000,000
$5,000,000
$0
-$5,000,000
-$10,000,000
-$15,000,000
-$20,000,000
-$25,000,000
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Amount
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2/14
Contributions
Distributions
Net Cash Flow

II. Emerging Market Debt Education:

New York City Board of Education Retirement System

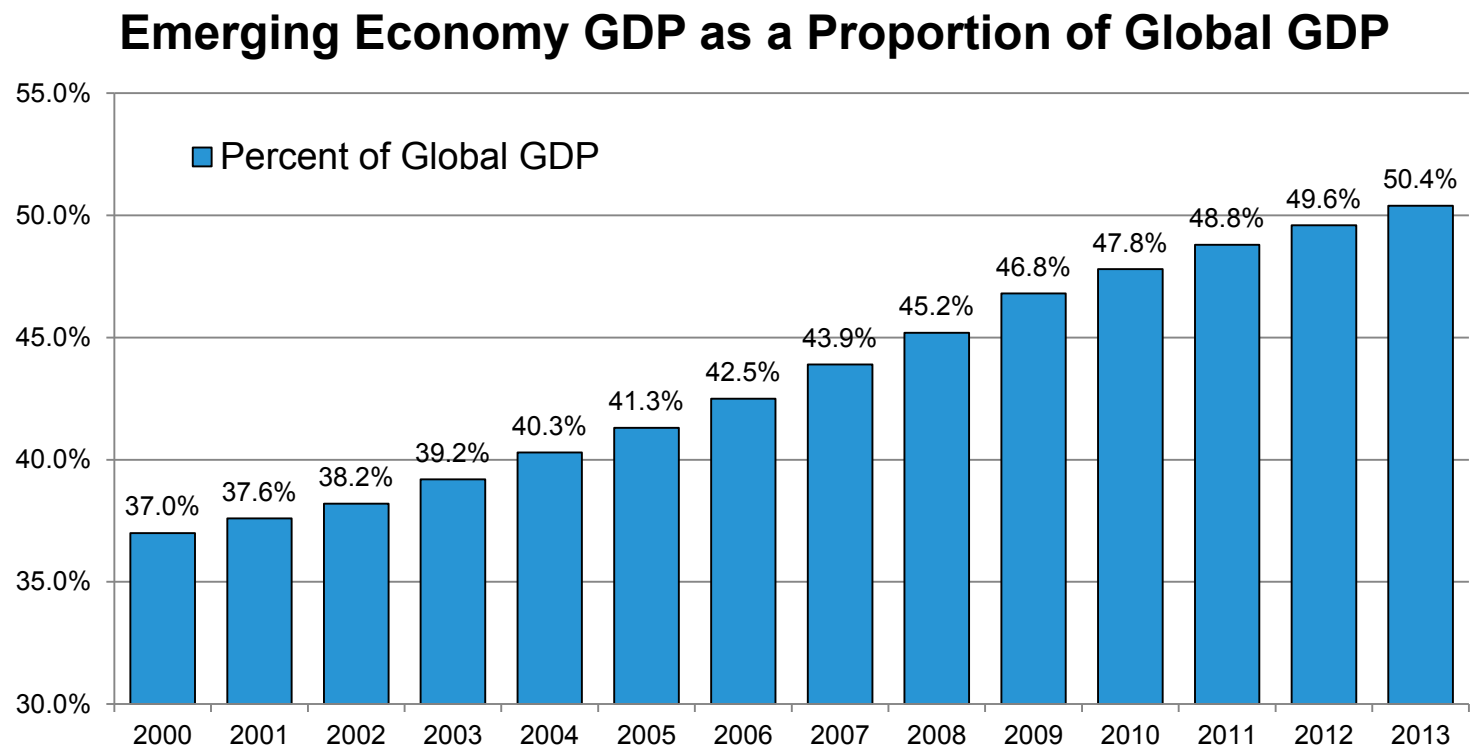
Introduction to Emerging Market Debt

Presented by
Michael Wright
(212) 330-1173

Executive Summary

- The New York City Comptroller's Office will be conducting a search for emerging market debt (EMD) managers for the NYCRS plans. While NYCBERS does not currently maintain an allocation to emerging market debt, they may want to take advantage of the current effort to do so.
- Emerging market debt has performed well over time, but exhibits greater volatility compared to other fixed income asset classes. This is particularly true for local EMD, which can be subject to significant currency fluctuations that overshadow changes in value of the underlying debt.
- Based on this review, Buck recommends that NYCBERS participate in the EMD review so that we can evaluate the value and risk characteristics of specific managers in comparison to our current structure.

Growing Relevance of Emerging Market Economies

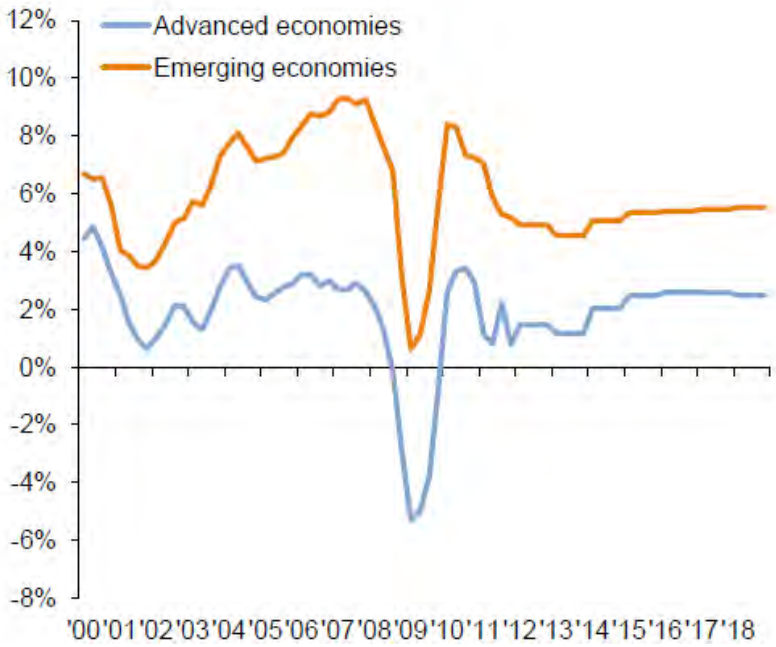


Source: International Monetary Fund, World Economic Outlook Database.

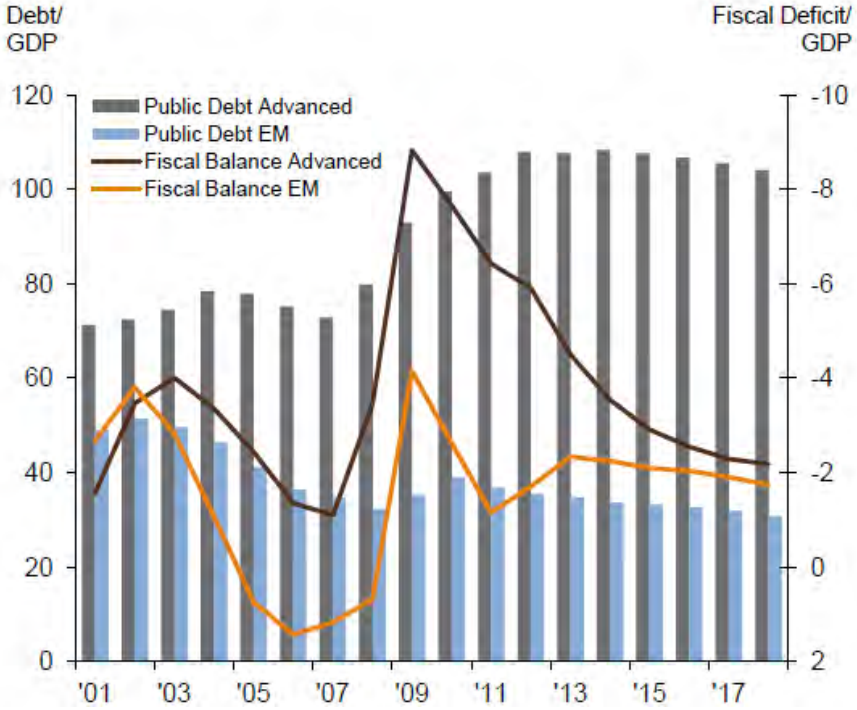
- Emerging markets are assuming a greater role in the global economy and account for more than half of global GDP.

Emerging Markets Driving Global Growth

Emerging markets will continue to drive global growth
Real GDP oya quarterly, 2000 – 2012



Divergence of fiscal deficits

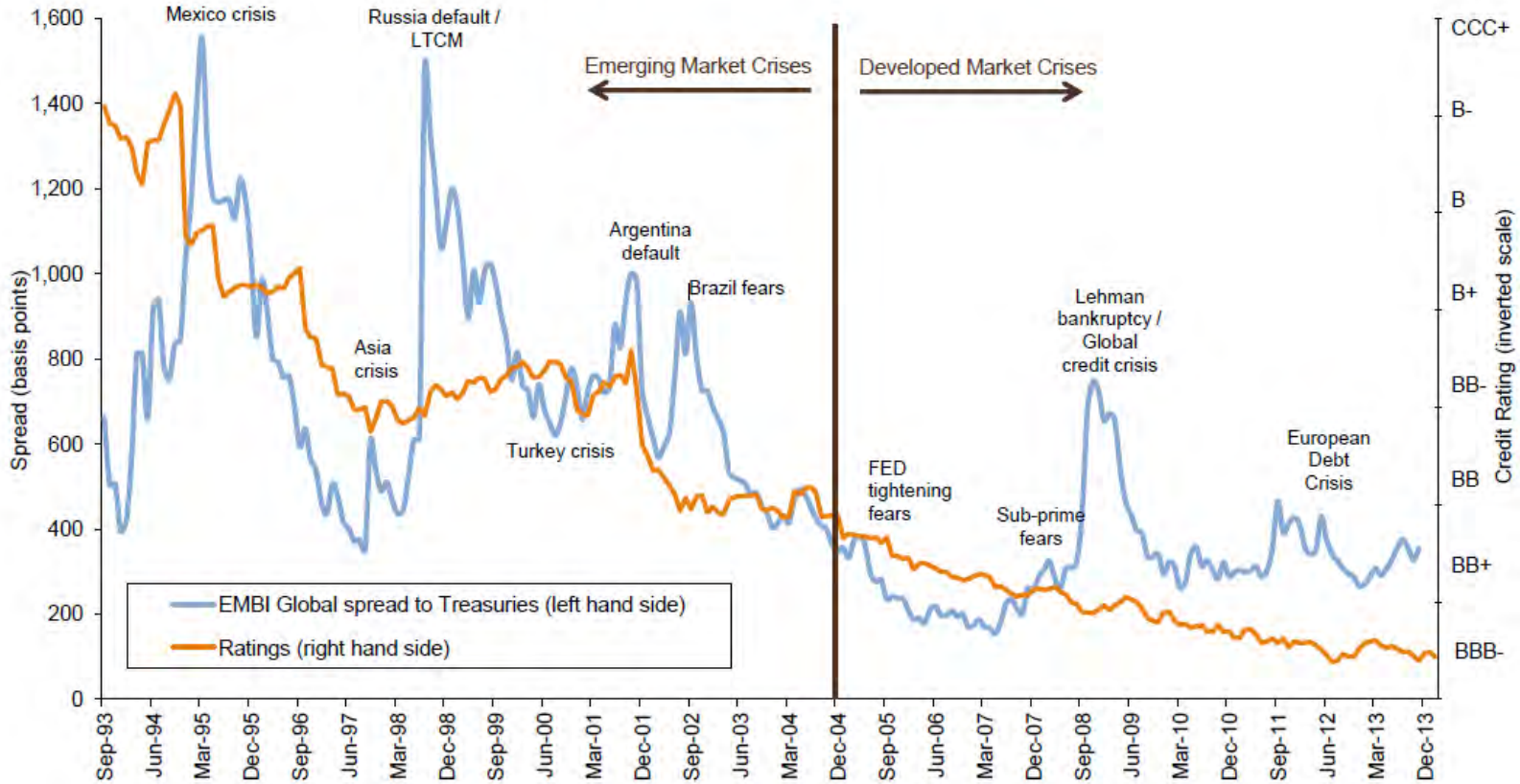


Source: JPMorgan Asset Management, International Monetary Fund
Data for future periods are forecasts.

- Emerging markets are driving global growth and seeing greater improvements in their fiscal situations.

Improved Emerging Market Fixed Income Environment

EM External debt spreads and average credit ratings (inverted scale)



Source: JPMorgan Asset Management

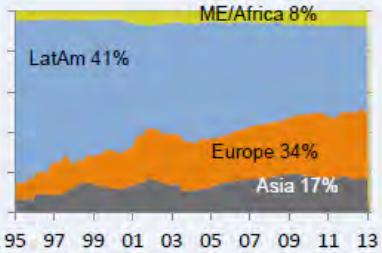
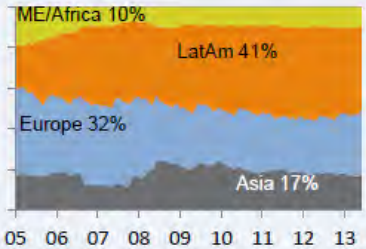
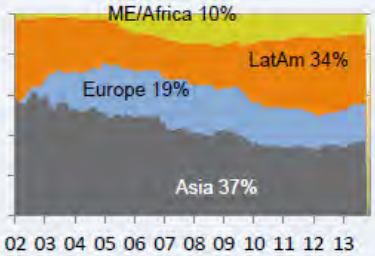
- Emerging markets credit spreads have narrowed and credit ratings have risen, indicative of improved fundamentals.

Types of Emerging Market Debt

- Emerging market debt (EMD) can be broadly divided into three main categories:

  - **Hard (or, external) currency debt:** This is debt which is issued in a currency other than that of the issuer's local currency. "Hard" currencies refer to globally tradable, reliable, and stable currencies such as the US dollar or euro).
  - **Local currency debt:** This is debt denominated in the domestic currency of an issuer. Exchange rate movements will often have a pronounced impact on the performance. Issuers will also tend to have higher credit ratings.
  - **Corporate Debt:** This is debt issued by corporate borrowers, as opposed to sovereign. Although local currency corporate issuance is starting to rise, the sector is generally composed of hard currency debt.

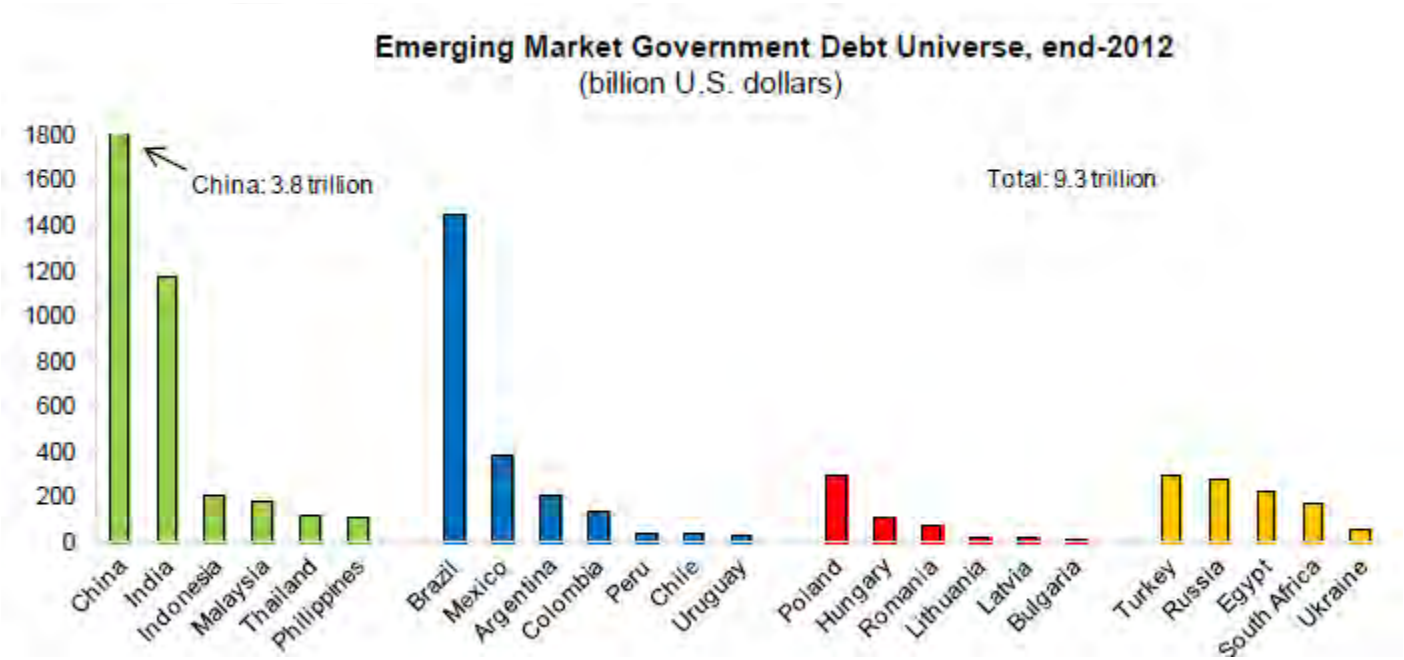
Emerging Market Debt Indices

Strategy	External Debt	Local Currency Debt	Corporate Debt
Index	JPMorgan Emerging Markets Bond Index Global (JPM EMBI Global)	JPMorgan Government Bond Index–Emerging Markets Global (JPM GBI–EM Global)	JPMorgan Corporate Emerging Markets Bond Index Broad (JPM CEMBI Broad)
Currency	USD	Local Currency	USD
Credit Quality	BBB-	BBB+	BBB
Duration	7.04 years	4.39 years	5.30 years
Yield	5.97%	7.31%	5.68%
Number of Issues	419	186	1045
Market Value	$607.8 Billion	$919.9 Billion	$727.2 Billion
Historical Regional Distribution (%MV) Current values labeled			
Top 5 Countries (%MV)	Mexico 12% Russia 11% Indonesia 8% Venezuela 7% Turkey 7%	Brazil 23% Mexico 17% Poland 11% South Africa 8% Malaysia 8%	Brazil 19% Russia 14% China 12% Hong Kong 8% Mexico 7%

Source: JPMorgan Asset Management, data as of 2/28/2014

- Note that “Diversified” versions of the above indices are commonly used as performance benchmarks, and restrict allocation to any particular country at 10%.

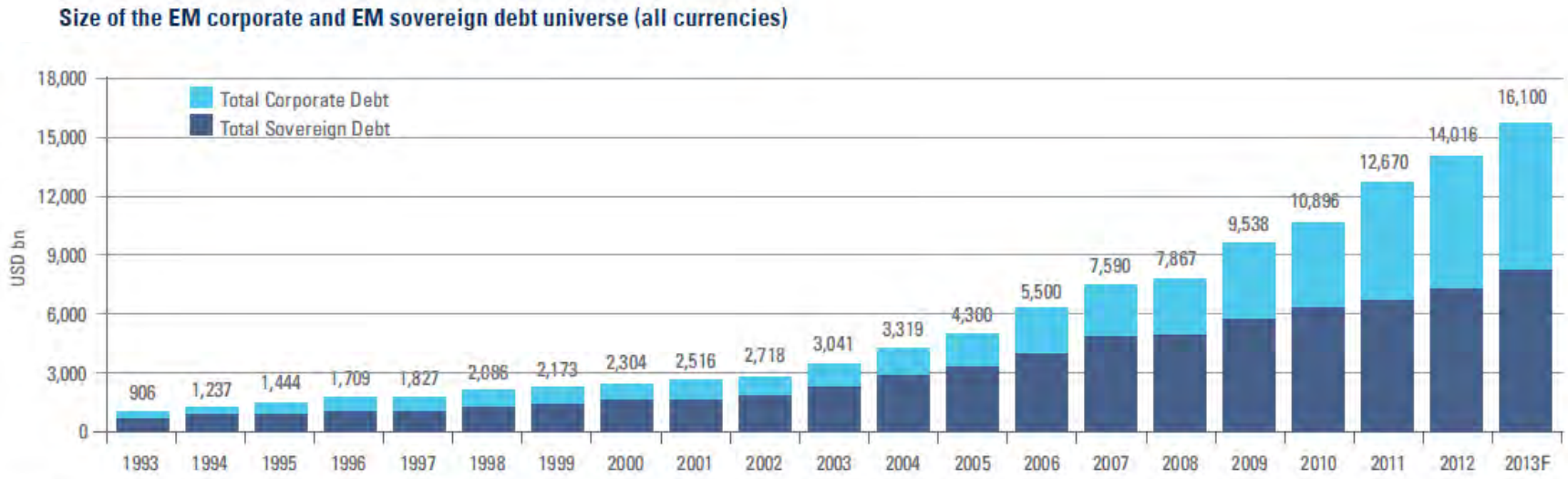
Emerging Market Debt Issuers



Source: International Monetary Fund

- China is the largest sovereign issuer of emerging market debt and accounts for about 40% of debt outstanding.

Growth of Emerging Market Debt



Source: BIS and BoAML, July 2013. 2013 forecast based on Ashmore estimates.

- The EMD market has experienced accelerating growth, roughly doubling in size over the past five years.

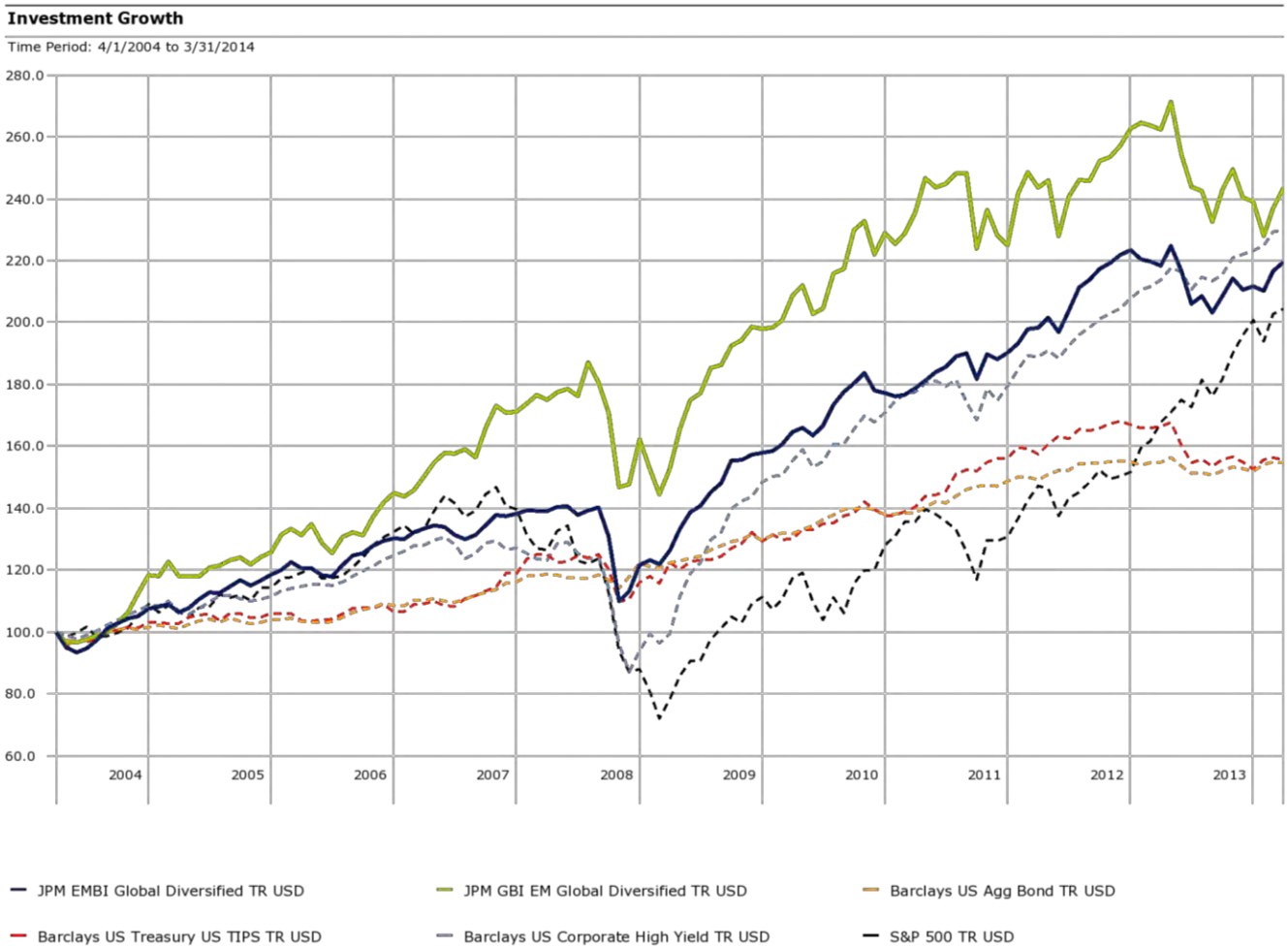
The Case for Emerging Market Debt

- EMD has, over time, become an attractive asset class for institutional investors, as liquidity has improved and emerging market issues have successfully reduced their debt-to-GDP ratios, diversified their sources of economic growth, and adjusted their fiscal and monetary policies to reduce vulnerabilities to economic shocks and contagion.
  - **Improving credit rating:** Over the last decade the credit ratings of countries issuing EMD have migrated upwards due, in part, to strong GDP growth, the development of more independent central banks and improving country fundamentals.
  - **Institutional investors are structurally underweight:** Buck estimates that pension plans in the US, UK, and Europe have allocated only 2% of their total assets to emerging market debt. This is despite emerging markets accounting for more than 50% of global GDP.
  - **Enhanced returns and diversification:** EMD has historically outperformed traditional bond asset classes over the longer-time frames and offers a degree of diversification from traditional asset classes.

Risks of Emerging Market Debt

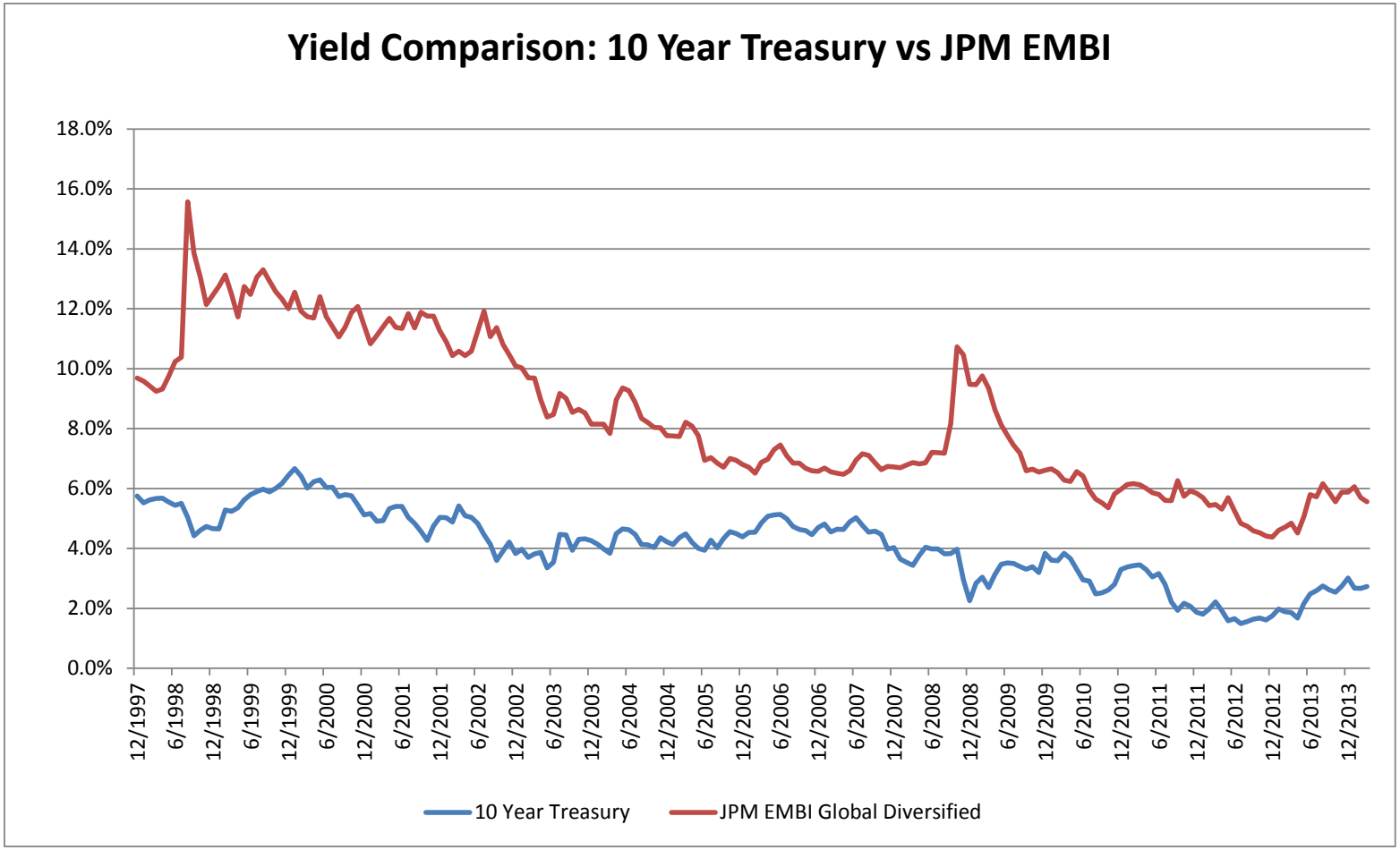
- **Default risk:** Defaults still remain a risk with countries whose economies become mismanaged. Two high-profile sovereign defaults in recent times include Russia (1998) and Argentina (2002). Corporates are not immune either, with a first-ever Chinese default announced in Q1 2014.
- **Higher operational risks:** EMD presents increased settlement risks on trades, resulting in higher custodial fees. Companies within emerging markets are subject to an increased likelihood of fraud, opaque accounting standards and poor corporate governance standards relative to their developed-market counterparts.
- **Liquidity risk:** Although EMD markets have grown significantly in recent times, this does not always directly correspond to the size of the actual tradable market. Market access be restricted to non-local investors, issue size may be small, or regulatory controls could impede capital flows.
- **High entry and ongoing costs:** Transaction costs and management fees are generally higher.

Emerging Market Debt Outperformance



- EMD has outperformed (solid lines in above chart) compared to other fixed income sectors over time and performed comparably to high yield.

Treasury vs EMD Yield Comparison



- Aside from the time of the financial crisis, spreads of emerging market debt to Treasuries have narrowed over time.

Emerging Market Debt Correlation

		1	2	3	4	5	6	7	8
1	JPM EMBI Global Diversified (USD denominated)	1.00	0.79	0.63	0.65	0.75	0.57	0.66	0.69
2	JPM GBI EM Global Diversified (Local Currency)	0.79	1.00	0.38	0.46	0.64	0.67	0.79	0.82
3	Barclays US Aggregate Bond	0.63	0.38	1.00	0.78	0.24	0.03	0.12	0.15
4	Barclays US Treasury TIPS	0.65	0.46	0.78	1.00	0.38	0.16	0.23	0.29
5	Barclays US Corp High Yield	0.75	0.64	0.24	0.38	1.00	0.74	0.74	0.73
6	Russell 3000	0.57	0.67	0.03	0.16	0.74	1.00	0.89	0.80
7	MSCI EAFE	0.66	0.79	0.12	0.23	0.74	0.89	1.00	0.89
8	MSCI Emerging Markets	0.69	0.82	0.15	0.29	0.73	0.80	0.89	1.00

Calculated using monthly data for the ten-year period ended March 31, 2014.

- Note the decreased correlation for emerging market debt (especially Local Currency) versus other fixed income sectors currently represented in the NYCBERS Fund.

Historical Returns

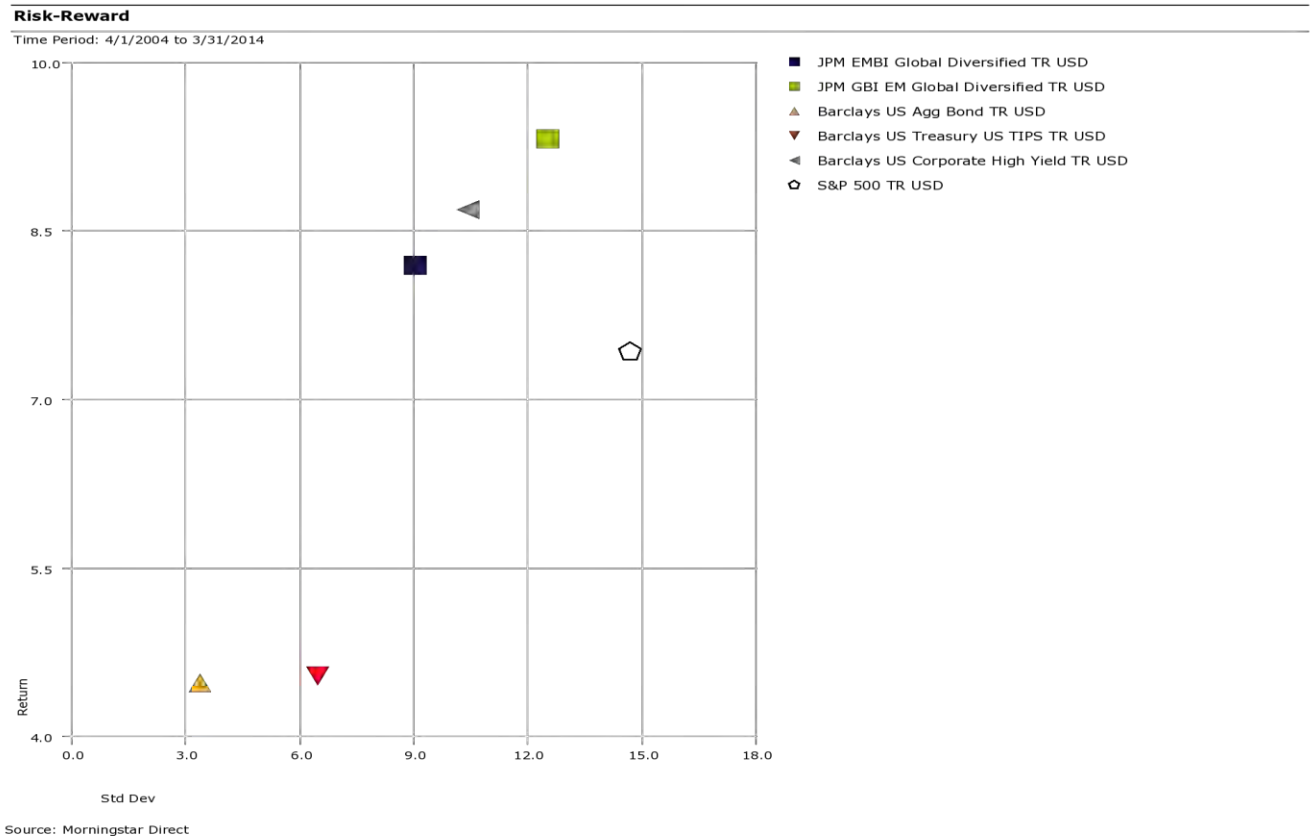
Annualized Returns Ended March 31, 2014

Name	1 Year	2 Year	3 Year	4 Year	5 Year	10 Year
JPM EMBI Global Diversified TR USD	0.56	5.22	7.10	7.47	11.70	8.19
JPM GBI EM Global Diversified TR USD	-7.14	0.00	1.13	3.94	9.78	9.32
Barclays US Agg Bond TR USD	-0.10	1.82	3.75	4.09	4.80	4.46
Barclays US Treasury US TIPS TR USD	-6.49	-0.59	3.50	4.59	4.91	4.52
Barclays US Corporate High Yield TR USD	7.54	10.30	9.00	10.30	18.25	8.68
Credit Suisse Leveraged Loan USD	5.04	6.64	5.29	6.01	12.24	5.01
Russell 3000 TR USD	22.61	18.52	14.61	15.31	21.93	7.86
MSCI EAFE GR USD	18.06	14.89	7.72	8.50	16.56	7.01
MSCI Emerging Markets GR USD	-1.07	0.61	-2.54	2.40	14.83	10.45

Calendar Year Returns

Name	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004
JPM EMBI Global Diversified TR USD	-5.25	17.44	7.35	12.24	29.82	-12.03	6.16	9.86	10.25	11.62
JPM GBI EM Global Diversified TR USD	-8.98	16.76	-1.75	15.68	21.98	-5.22	18.11	15.22	6.27	22.97
Barclays US Agg Bond TR USD	-2.02	4.21	7.84	6.54	5.93	5.24	6.97	4.33	2.43	4.34
Barclays US Treasury US TIPS TR USD	-8.61	6.98	13.56	6.31	11.41	-2.35	11.64	0.41	2.84	8.46
Barclays US Corporate High Yield TR USD	7.44	15.81	4.98	15.12	58.21	-26.16	1.87	11.85	2.74	11.13
Credit Suisse Leveraged Loan USD	6.15	9.43	1.82	9.98	44.87	-28.75	1.88	7.33	5.69	5.60
Russell 3000 TR USD	33.55	16.42	1.03	16.93	28.34	-37.31	5.14	15.72	6.12	11.95
MSCI EAFE GR USD	23.29	17.90	-11.73	8.21	32.46	-43.06	11.63	26.86	14.02	20.70
MSCI Emerging Markets GR USD	-2.27	18.63	-18.17	19.20	79.02	-53.18	39.82	32.55	34.54	25.95

Emerging Market Debt Risk / Reward



- Over the trailing ten-year period, emerging market debt has exhibited significant volatility, but returns have been commensurate with the added risk.

III. Basket Clause Update (Discussion):

APPENDICES:

Basket Clause

BERS- BASKET/NON BASKET SUMMARY

As of February 28th, 2014	Adjusted Fund Policy			Fund Actual (PE & RE on an invested basis)		
Equity	**Non Basket***	**Basket***	**Total**	**Non Basket***	**Basket***	**Total**
Domestic Equity	42.4%	0.0%	42.4%	44.8%	0.0%	44.8%
Non-U.S. Equity	10.0%	12.0%	22.0%	10.0%	12.9%	22.9%
Private Equity	0.0%	3.0%	3.0%	0.0%	3.0%	3.0%
Real Assets	2.6%	0.0%	2.6%	2.6%	0.0%	2.6%
Total Equity	55.0%	15.0%	70.0%	57.4%	15.8%	73.2%
Fixed Income						
Core+5	16.5%	0.5%	17.0%	14.0%	0.5%	14.5%
U.S. Gov't Sector	*3.0%*	*0.0%*	*3.0%*	2.2%	*0.0%*	*2.2%*
Mortgage Sector	*6.6%*	*0.0%*	*6.6%*	6.1%	*0.0%*	*6.1%*
Credit Sector	*6.9%*	*0.5%*	*7.4%*	6.2%	*0.5%*	*6.7%*
High Yield	4.4%	1.1%	5.5%	4.2%	1.1%	5.3%
Bank Loans	0.0%	2.5%	2.5%	0.0%	2.1%	2.1%
TIPS	4.5%	0.5%	5.0%	3.1%	0.3%	3.4%
Other Fixed Income	0.0%	0.0%	0.0%	1.5%	0.0%	1.5%
Total Fixed Income	25.4%	4.6%	30.0%	22.8%	4.0%	26.8%
Total Fund	80.5%	19.5%	100.0%	80.2%	19.8%	100.0%
Remaining Capacity		5.5%			5.2%	

* Note: Basket amounts are estimates

Liquidity Analysis

BERS Liquidity Profile - Static Analysis

4/8/14

AUM as of February 28, 2014

		Liquid Assets		
	Current MV	**Today**	**1 Year**	**2 Years**
Domestic Equity	$1,789	$1,789	$1,789	$1,789
International Equity	739	739	739	739
Emerging Markets	176	176	176	176
Private Equity	119	0	0	0
Private Real Estate	105	0	0	0
Core + 5	578	578	578	578
TIPS	137	137	137	137
Enhanced Yield	212	212	212	212
Bank Loans	82	82	82	82
ETI	19	5	17	17
Cash	41	41	41	41
Total Assets	**$3,996**	**$3,759**	**$3,771**	**$3,771**
Total Illiquid $		$237	$225	$225
Total Illiquid %		5.9%	5.6%	5.6%

Unfunded PE Commitments	$151
Unfunded RE Commitments	51
Total commitments $	$201
Total commitments %	5.0%

BERS Liquidity Profile - Static Analysis

4/8/14

AUM as of February 28, 2014

Denominator Effect - Decrease AUM by One-Third			
Total Illiquid $	$237	$225	$225
Total Illiquid %	8.9%	8.5%	8.5%

Note: Assumes zero realizations, no new commitments and a five-year investment period; funded out of liquids

		Liquid Assets		
	Current MV	**Today**	**1 Year**	**2 Years**
Total Assets	**$3,996**	**$3,759**	**$3,771**	**$3,771**

Private Equity, Real Estate and Opportunistic Fixed Income Stress Case			
Unfunded PE Commitments Drawn		$30	$60
Unfunded RE Commitments Drawn		10	20
Total commitments $		**$40**	**$80**
Total commitments %		1.0%	2.0%
Total Illiquid $		$266	$306
Total Illiquid %		6.6%	7.7%

Note: Assumes zero realizations, no new commitments and a five-year investment period; funded out of liquids

Denominator Effect - Decrease AUM by One-Third			
Total Illiquid $	$237	$266	$306
Total Illiquid %	8.9%	10.0%	11.5%

Note: Assumes zero realizations, no new commitments and a five-year investment period; funded out of liquids