

# THE CITY OF NEW YORK OFFICE OF THE COMPTROLLER BUREAU OF ASSET MANAGEMENT 1 CENTRE STREET ROOM 736 NEW YORK, N.Y. 10007-2341

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# SCOTT M. STRINGER COMPTROLLER

#### **MEMORANDUM**

TO: Trustees

New York City Fire Department Pension Fund

FROM: Scott C. Evans

DATE: December 9, 2015

RE: NEW YORK CITY FIRE DEPARTMENT PENSION FUND INVESTMENT MEETING -

**DECEMBER 16, 2015** 

Enclosed is a copy of the **public agenda material** for the December 16, 2015 Common Investment Meeting.

The meeting will be held at New York Law School, 185 West Broadway, 2<sup>nd</sup> Floor (Between Worth & Leonard) New York, NY 10013 (beginning at 9:00am).

If you have questions about any item, please contact me at (212) 669-8318.



#### THE CITY OF NEW YORK OFFICE OF THE COMPTROLLER 1 CENTRE STREET NEW YORK, N.Y. 10007-2341

Scott M. Stringer

#### NEW YORK CITY FIRE DEPARTMENT PENSION FUND

### **COMMON INVESTMENT MEETING**

**DECEMBER 16, 2015** 

# **LOCATION**:

New York Law School 185 West Broadway, 2<sup>nd</sup> Floor (Between Worth & Leonard) New York, NY 10013

# NEW YORK CITY FIRE DEPARTMENT PENSION FUND

# (CIM) COMMON INVESTMENT MEETING

# **DECEMBER 16, 2015**

#### PUBLIC AGENDA MATERIALS

Public Session 9:00am – 10:15am	Page
Welcome and Opening	
<ul> <li>CIO - Total Fund Performance Overview &amp; Performance by Asset (See Separate Cover)</li> <li>- ETI Quarterly Report - September 30, 2015</li> <li>- Private Equity Quarterly Report - June 30, 2015</li> <li>- Real Assets Quarterly Report - June 30, 2015</li> </ul>	5 Class 5 11 40

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PUBLIC AGENDA

<u>Performance Reviews</u>:

ETI Quarterly Report

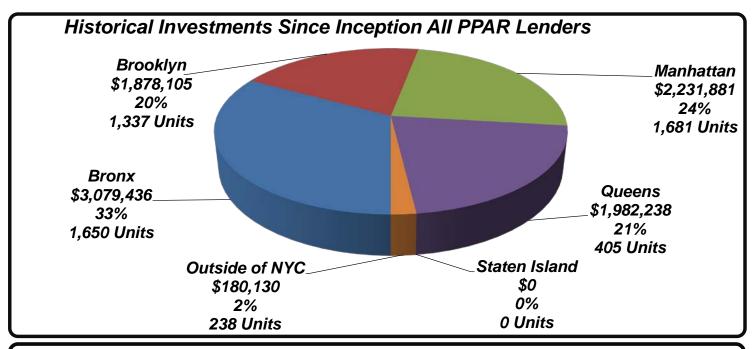
#### Public/Private Apartment Rehabilitation Program (PPAR)

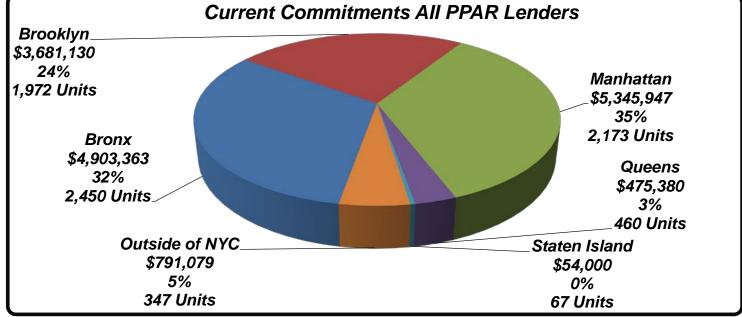
Lenders*	BOA		CCD		CFSB		CPC		JPM		LIIF		NCBCI	- 1	NHS	ı	Wells Far	ao	LISC	<del></del>
Contractual Commitment	\$11.00 M	м	\$6.00 MN	1	\$1.00 M	м	\$6.00 MI	М	\$10.00 M	м	\$6.00 MM		\$1.00 MM		\$1.00 MM		\$3.00 MI		\$7.00 MM	
Current Market Value	\$2.62 MI		\$2.47 MN		\$0.43 MI		\$1.47 MI		\$1.67 MI		\$1.16 MM		\$0.30 MM		\$0.00 MM		\$0.00 MI		\$0.00 MM	
	Dollars		Dollars			Units	Dollars		Dollars		Dollars U	nits	Dollars U		Dollars Un	its	Dollars		Dollars L	
Commitments 3Q 15		<u> </u>		<u> </u>				<u> </u>		<u></u>									<u> </u>	
(included in total)																				
Bronx	\$0	0	\$0	0	\$0	0	\$17,298	18	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0
Brooklyn	860,163	288	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manhattan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Queens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Staten Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Outside of NYC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	\$860,163	288	\$0	0	\$0	0	\$17,298	18	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0
Delivered 3Q 15																				
(included in total)																				
Bronx	\$612,500	60	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0
Brooklyn	0	0	0	0	0	0	7,032	35	88,630	24	0	0	0	0	0	0	0	0	0	0
Manhattan	0	0	0	0	0	0	3,262	12	0	0	0	0	0	0	0	0	0	0	0	0
Queens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Staten Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Outside of NYC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	\$612,500	60	\$0	0	\$0	0	\$10,294	47	\$88,630	24	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0
Total Commitments	\$612,500	00	ψU	U	<b>\$</b> 0	U	\$10,294	41	\$66,630	24	ψU	U	ΨU	-	ψU	U	<b>\$</b> 0	U	ΨU	
Bronx	\$0	0	\$733,224	193	\$0	0	\$536,110	1 007	\$3,394,829	1 176	\$239,200	74	\$0	٥	\$0	٨	\$0		\$0	_
Brooklyn	1,744,578	400	130,200	50		0	605,754	,	. , ,	1,170		251	0	ň	0	ă	φ0 0	0	0	0
Manhattan	784,000	100	130,200	0	0	0	731,469	1,256	,	286		338	0	ň	0	ă	582,160	103	•	90
Queens	210,000	54	0	0	0	0	265,380	406	,	200	1,551,507	000	0	ň	0	ă	002,100	103	1,323,133	0
Staten Island	210,000	0	0	0	0	0	203,300	-00		ň	0	ň	0	ň	0	ŏ	54,000	67	•	0
Outside of NYC	208,250	39	0	0	0	0	197,490	186	1	122	0	ň	0	ň	0	ŏ	0-,000	0,	ľ	Ô
outside of it is	200,200	00	·	·	Ů	·	137,430	100	505,555	122	•	Ŭ	·	ĭ	·	Ĭ	·	·	ľ	٠
Total	\$2,946,828	593	\$863,424	243	\$0	0	\$2,336,204	3,999	\$4,497,923	1,711	\$2,645,164	663	\$0	0	\$0	0	\$636,160	170	\$1,325,195	90
Historical Investments																				
Bronx	\$612,500	60	\$918,720	452	\$0	0	\$211,588	558	\$1,208,870	537	\$127,758	43	\$0	0	\$0	0	\$0	0	\$0	0
Brooklyn	0	0	594,348	252	0	0	540,453	750	292,630	90	450,673	245	0	0	0	0	0	0	0	0
Manhattan	0	0	555,249	283	483,542	197	380,144	909		47	527,881	122	271,566	123	0	0	0	0	0	0
Queens	1,756,888	239	120,000	54	0	0	15,350	16	90,000	96	0	0	0	0	0	0	0	0	0	0
Staten Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Outside of NYC	0	0	0	0	0	0	180,130	238	0	0	0	0	0	0	0	0	0	0	0	0
Total	\$2,369,388	299	\$2,188,317	1,041	\$483,542	197	\$1,327,665	2,471	\$1,605,000	770	\$1,106,312	410	\$271,566	123	\$0	0	\$0	0	\$0	0
*Lenders :	Bank of		Citibank Comn	nunity	Carver Fed		The Commu		JP Morga		Low Income		NCB Capita	al	Neighborhoo	d	Wells Far	go	Local Initiativ	es
	America	1	Developme	ent	Savings B	ank	Preservation	Corp	Chase		Investment Fu	nd	Impact		Housing Serv	v		-	Support Cor	р

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# FIRE Pension Fund - Economically Targeted Investments Quarterly Report <u>Public/Private Apartment Rehabilitation Program (PPAR)</u>

Lenders*	All Lender Totals				
Contractual Commitment	\$52.00 MM				
Current Market Value	\$10.12 MM				
	Dollars	Units			
Commitments 3Q 15					
(included in total)					
Bronx	\$17,298	18			
Brooklyn	860,163	288			
Manhattan	0	0			
Queens	0	0			
Staten Island	0	0			
Outside of NYC	0	0			
Total	\$877,461	306			
Delivered 3Q 15					
(included in total)					
Bronx	\$612,500	60			
Brooklyn	\$95,662	59			
Manhattan	\$3,262	12			
Queens	\$0	0			
Staten Island	\$0	0			
Outside of NYC	\$0	0			
	·				
Total	\$711,424	131			
Total Commitments					
Bronx	\$4,903,363	2,450			
Brooklyn	3,681,130				
Manhattan	5,345,947	2,173			
Queens	475,380	460			
Staten Island	54,000	67			
Outside of NYC	791,079	347			
Total	\$15,250,898	7,469			
Historical Investments					
Bronx	\$3,079,436	1.650			
Brooklyn	1,878,105	-			
Manhattan	2,231,881	,			
Queens	1,982,238	,			
Staten Island	0	0			
Outside of NYC	180,130	-			
	100,100				
Total	\$9,351,789	5,311			
	, -,,-	- ,			





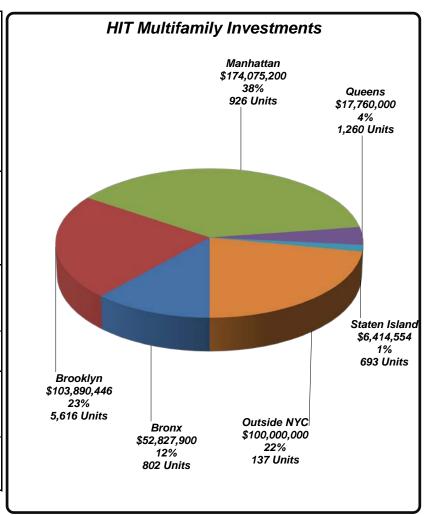
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Collateral Benefits as of 9/30/2015

AFL-CIO Housing Investment Trust (HIT)
Market Value \$43.08 million\*

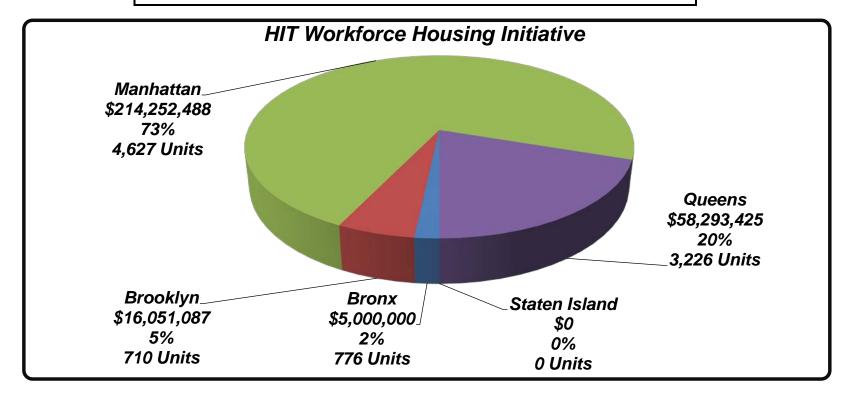
NYC Community Investment Initiative (NYCCII)

Multifamily Investments Detail				
		Investments		<b>Housing Units</b>
<u>Borough</u>	3Q Investments	Since Inception	3Q Housing Units	Since Inception
Bronx	\$0	\$52,827,900	0	802
Brooklyn	0	103,890,446	0	5,616
Manhattan	0	174,075,200	0	926
Queens	0	17,760,000	0	1,260
Staten Island	0	6,414,554	0	693
Outside NYC	0	100,000,000	0	137
Total	\$0	\$454,968,100	0	9,434
Grand Total NYCCII Phase II		\$454,968,100		9,434
NYCCII Phase I 2002-2005				
	Dollars	Units	Member Loans	Total All NYC PF's
Multifamily Investments	\$249,123,500	12,337	n/a	n/a
HIT Home Investments	348,300,563	n/a	131	446
Total NYCCII Phase I	\$597,424,063	12,337	131	446
NYCCII Phases I & II				
	<u>Dollars</u>	<u>Units</u>	Member Loans	Total All NYC PF's
Multifamily Investments	\$704,091,600	21,771	n/a	n/a
HIT Home Investments	2,899,899,500	n/a	131	446
Grand Total NYCCII Phases I & II	\$3,603,991,100	21,771	131	446



<sup>\*</sup>Interest is reinvested

	ng Investment Trust (HI Housing Initiative	T)								
Investments From 2009 Through Q3 2015										
Workforce Inves	stments Detail									
		Investments		Housing Units						
<b>Borough</b>	3Q Investments	Since Inception	<b>3Q Housing Units</b>	Since Inception						
Bronx	\$0	\$5,000,000	0	776						
Brooklyn	0	16,051,087	0	710						
Manhattan	0	214,252,488	0	4,627						
Queens	0	58,293,425	0	3,226						
Staten Island	0	0	0	. 0						
Total	\$0	\$293,597,000	0	9,339						

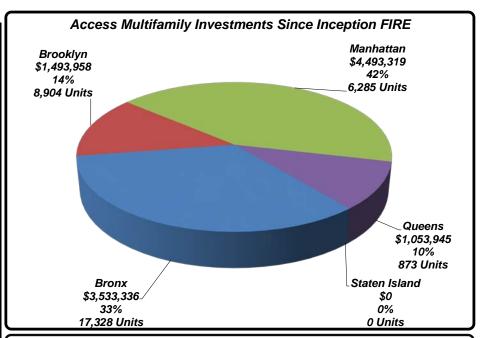


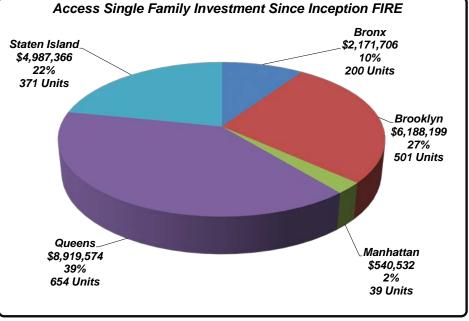
# **FIRE Pension Fund - Economically Targeted Investments Quarterly Report**

ACCESS CAPITAL STRATEGIES (Since Inception 2/1/07)

	-					
\$19 million Allocated (6.33% of total acc	ount)					
Market Value \$19.47 million						
Multiferrily Investments Dateil		¢ Inv	1 1 1 1 1		Units <sup>2</sup>	2
Multifamily Investments Detail	3Q	⊅ Iliv	<u>ested<sup>1</sup></u> Total	3Q	Units	Total
Bronx	<u> </u>	\$0	\$3,533,336	<u> </u>	0	17,328
Brooklyn		φυ 0	\$1,493,958		0	8,904
Manhattan		0	\$4,493,319		0	6,285
Queens		0	\$1,053,945		0	873
Staten Island		Ö	\$0		Ŏ	0,0
Total FIRE Multifamily Investments		0	\$10,574,557		0	33,390
Multifamily Total All Systems		0	\$167,054,619		0	33,390
multiumity 10th 7th Oyotomo			Ψ101,001,010			30,000
Single Family Investments Detail		\$ Inv	ested/		Units	
	3Q		Total	<u>3Q</u>		Total
Bronx		0	\$2,171,706	_	0	200
Brooklyn		0	\$6,188,199		0	501
Manhattan		0	\$540,532		0	39
Queens		0	\$8,919,574		0	654
Staten Island		0	\$4,987,366		0	371
Total FIRE Single Family Investments		0	\$22,807,377		0	1,765
Single Family Total All Systems		0	\$360,306,111		0	1,765
Other Investments Detail		\$ Inv	<u>rested</u>		<u>Units</u>	
_	<u>3Q</u>	_	<u>Total</u>	<u>3Q</u>	_	<u>Total</u>
Bronx		0	\$42,728		0	1
Brooklyn		0	\$341,212		0	8
Manhattan Queens		0 0	\$154,003 \$34,399		0 0	5 3
Staten Island		0	\$34,399 \$0		0	0
Total FIRE Other Investments		0	\$572,342		0	17
Other Investments Total All Systems		0	\$9,041,740		0	17
Grand Total FIRE		\$0	\$33,954,276			
Grand Total All Systems		\$0	\$536,402,470			

<sup>&</sup>lt;sup>1</sup> Certain bond investment amounts are allocated pro rata across boroughs based upon unit count.





<sup>&</sup>lt;sup>2</sup> If not indicated otherwise, superintendent units are allocated based on building size.

Private Equity Quarterly Report



# **Private Equity Monitoring Report**

For the period ended June 30, 2015

Report Prepared For:

New York City Fire Department Pension Fund, Subchapter 2



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Past performance is not necessarily indicative of future results. Actual performance may vary.



# I. Executive Summary

The New York City Fire Department Pension Fund, Subchapter 2 ("NYCFDPF") established the Alternative Investment Program (the "Program") on January 1, 1997 on behalf of its beneficiaries to participate in attractive long-term investment opportunities and to provide diversification to its overall pension investment portfolio.

StepStone Group LP ("StepStone") was engaged by NYCFDPF on February 1, 2012 to provide private equity advisory services for prospective investment opportunities and monitoring and reporting services for existing and new investments.

Since inception through June 30, 2015, the Program has committed US\$1.5 billion to 180 partnership investments (the "Portfolio"). This quarterly monitoring report covers the performance of the Portfolio as of June 30, 2015 as well as significant activity that occurred during the second quarter of 2015.

#### **Performance Summary**

US\$ in millions	June 30, 2015	March 31, 2015	June 30, 2014	Quarterly Change	Yearly Change
Number of Managers	114	112	106	2	8
Number of Investments	180	175	167	5	13
Committed Capital <sup>1</sup>	\$1,543.2	\$1,509.6	\$1,450.7	\$33.6	\$92.4
Contributed Capital	\$1,215.9	\$1,185.6	\$1,068.7	\$30.3	\$147.2
Distributed Capital <sup>2</sup>	\$929.6	\$872.8	\$771.2	\$56.8	\$158.4
Market Value <sup>2</sup>	\$761.3	\$762.7	\$696.5	(\$1.4)	\$64.8
Total Value	\$1,690.9	\$1,635.5	\$1,467.7	\$55.4	\$223.2
Total Gain/(Loss)	\$475.0	\$449.9	\$399.0	\$25.1	\$76.0
Unfunded Commitment <sup>3</sup>	\$482.3	\$474.4	\$522.7	\$8.0	(\$40.4)
Total Exposure <sup>4</sup>	\$1,243.7	\$1,237.1	\$1,219.2	\$6.6	\$24.4
DPI <sup>5</sup>	0.76x	0.74x	0.72x	0.03x	0.04x
TVM <sup>6</sup>	1.39x	1.38x	1.37x	0.01x	0.02x
IRR <sup>7</sup>	11.0%	11.0%	11.1%	+ 8 bps	- 3 bps
TVM Net of StepStone Fees <sup>8</sup>	1.39x	1.38x	1.37x	0.01x	0.02x
IRR Net of StepStone Fees <sup>8</sup>	11.0%	10.9%	11.0%	+ 8 bps	- 4 bps

<sup>&</sup>lt;sup>1</sup>Committed Capital is presented net of any commitment releases or expirations and reflects foreign currency exchange rate fluctuations.

<sup>&</sup>lt;sup>2</sup> Please note that the Distributions and Market Value are presented Pro-Forma for the sale of nine partnership investments in secondary transactions that closed during the first half of 2012.

<sup>&</sup>lt;sup>3</sup> Unfunded Commitment represents the aggregate remaining commitments to partnership investments.
<sup>4</sup> Total Exposure represents the sum of Market Value and Unfunded Commitment.

<sup>&</sup>lt;sup>5</sup> DPI, or Distributed to Paid-In Multiple, is a performance metric that measures distributions received relative to capital invested. DPI is calculated as Distributed Capital divided by Contributed Capital.

<sup>&</sup>lt;sup>6</sup> TVM, or Total Value Multiple, is a performance metric that measures total value created by the Portfolio relative to capital invested, without consideration for time. TVM is calculated as Total Value, which is comprised of Market Value plus Distributed Capital, divided by Contributed Capital.

which is comprised of Market Value plus Distributed Capital, divided by Contributed Capital.

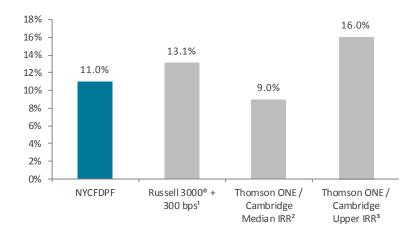
7 IRR, or Internal Rate of Return, is a performance metric that is calculated based on the Portfolio's daily cash flows and market value as of quarter-end. IRR is net of fund manager's fees, expenses and carried interest.

<sup>&</sup>lt;sup>8</sup>TVM and IRR Net of StepStone fees represent TVM and IRR net of fees paid by NYCFDPF to StepStone.

#### Portfolio Performance vs. Benchmarks

The Portfolio's performance is measured against a dollar-weighted public benchmark, which produced the return that would have been earned if NYCFDPF's private equity cash flows were invested in the Russell 3000® Index<sup>1</sup> plus a 300 basis point illiquidity premium (the Opportunity Cost Benchmark).

The following graph illustrates Portfolio IRR performance versus benchmarks as of June 30, 2015.



<sup>1</sup>Benchmark is a dollar-weighted PME+ calculation of quarterly changes in the Russell 3000® Index. Russell Investment Group is the source and owner of the trademark, service marks and copyrights related to the Russell Indexes. Russell® is a trademark of Russell Investment Group.

<sup>2</sup> Benchmark is for informational purposes only and is NOT part of the Program's Policy Benchmarks. Benchmark is provided by Thomson ONE/Cambridge and reflects U.S. All Private Equity Funds Median Quartile IRR as of June 30, 2015 for funds with vintage years 1998 to 2015. Note: Thomson ONE/Cambridge data is continuously updated and is therefore subject to change.

<sup>3</sup>Benchmark is for informational purposes only and is NOT part of the Program's Policy Benchmarks. Benchmark is provided by Thomson ONE/Cambridge and reflects U.S. All Private Equity Funds Upper Quartile IRR as of June 30, 2015 for funds with vintage years 1998 to 2015. Note: Thomson ONE/Cambridge data is continuously updated and is therefore subject to change.

#### **Portfolio Diversification**

#### **By Strategy**

	Market Value		Unfunded C	ommitment	Total Exposure		
As of June 30, 2015 (US\$ in millions)	\$	% of Total	\$	% of Total	\$	% of Total	
Buyout	446.2	58.6%	291.2	60.4%	737.3	59.3%	
Growth Equity	90.4	11.9%	38.1	7.9%	128.5	10.3%	
Special Situations	46.8	6.2%	29.2	6.1%	76.0	6.1%	
Energy	21.4	2.8%	3.0	0.6%	24.4	2.0%	
Secondaries	70.1	9.2%	93.3	19.3%	163.4	13.1%	
Co-Investment	12.7	1.7%	22.4	4.7%	35.1	2.8%	
Other	73.7	9.7%	5.1	1.1%	78.8	6.3%	
Total	761.3	100.0%	482.3	100.0%	1,243.7	100.0%	

#### By Fund Geographic Focus

	Market Value		Unfunded C	ommitment	Total E	Total Exposure		
As of June 30, 2015 (US\$ in millions)	\$	% of Total	\$	% of Total	\$	% of Total		
North America	534.2	70.2%	288.4	59.8%	822.6	66.1%		
Global	157.8	20.7%	162.8	33.7%	320.5	25.8%		
Western Europe	62.5	8.2%	30.6	6.3%	93.1	7.5%		
Rest of World	6.9	0.9%	0.6	0.1%	7.5	0.6%		
Total	761.3	100.0%	482.3	100.0%	1,243.7	100.0%		

Prior to a fund being 75% drawn, fund geographic focus is based on the GP-stated geographic strategy. Subsequent to a fund being 75% drawn, fund geographic focus is based on actual portfolio company exposure by total invested capital. Funds with less than 75% of total invested capital allocated to one geographic region are classified as Global.

#### **II. Market Overview**

#### **Executive Summary**

Global capital markets struggled in the second quarter as signs of improving economic growth were offset by fears of rising interest rates and a worsening debt crisis in Greece. US equities began the quarter on strong footing, with the S&P 500 achieving new all-time highs, but investor sentiment reversed in June as uncertainty tied to Greece dragged down returns. The S&P 500 Total Return Index closed the quarter with a modest 0.3% gain. Despite early signs of success from the ECB's newly launched quantitative easing program, European stocks plunged in June as optimism regarding Greece's potential bailout deal faded. On the last day of the quarter, Greece defaulted on its €1.6 billion payment to the IMF, triggering losses throughout the global financial markets. The MSCI Europe index fell 0.9% in USD terms during the quarter; in local currency, losses surpassed 4%. The Japanese stock market avoided much of the downturn, aided by aggressive central bank policies and a positive corporate results season. Emerging market performance was mixed. Chinese equity gains were fueled by various stimulus measures, while higher commodity prices helped support stock markets in Russia and Brazil. Conversely, Indian stocks slumped due to weak corporate performance, and Southeast Asian markets declined due to reports of first-quarter GDP growth falling short of forecasts.

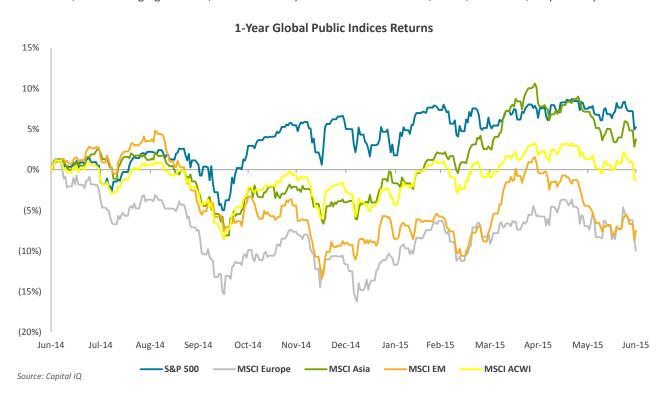
In private markets, US LBO debt volume totaled US\$20.3 billion in the second quarter, a 15% decrease from the prior quarter, but above the 10-year quarterly average of US\$18.6 billion. According to data from S&P, purchase price multiples for US LBOs rose to 10.3x EBITDA in the second quarter, compared to the first quarter's multiple of 9.9x and the annual weighted multiple of 9.7x throughout 2014. The increase was driven by large deals for companies with EBITDA greater than US\$500 million, which accounted for 64% of the data. Average debt multiples of large corporate US LBO loans rose from 5.6x to 5.8x EBITDA quarter-over-quarter. Equity contributions for US LBOs also increased, from 39.4% in the first quarter to 41.8% in the second quarter. Private equity fundraising activity rose 25% quarter-over-quarter (with venture capital fundraising climbing 35.6%), while private equity investment activity rose 57%, in part due to the \$5.3 billion buyout of U.S.-based enterprise software provider Informatica.

Following a sluggish first quarter, the IPO market picked up in the second quarter of 2015. NYSE and NASDAQ IPO transaction volume reached US\$10.4 billion for 49 private equity-backed companies in the second quarter, representing a 291% increase in value compared to the prior quarter. However, the US\$13.1 billion raised year-to-date represents a 56% decrease compared to the US\$29.5 billion of IPO proceeds raised in the first half of 2014. M&A volume totaled US\$163.9 billion in deals closed during the second quarter, down 32% from the prior quarter. These declines are largely due to mature startups choosing to raise late stage capital rather than navigate the public market or M&A channels.

#### **Capital Markets Overview**

#### **Public Equity Markets**

US equities faired modestly against international developed and emerging market equities in the second quarter. Though the S&P 500 Total Return Index remained essentially flat quarter-over-quarter, its nominal 0.3% rise constituted the index's tenth consecutive quarterly gain. The MSCI Asia index added the most value during the second quarter, gaining 1.1%, though the S&P 500 remains the top performer over the last twelve months. For the one year period ending June 30, 2015, the MSCI Asia, MSCI Emerging Markets, and MSCI Europe indices returned 3.7%, -7.5%, and -9.9%, respectively.



The following table shows the returns of four major MSCI indices, as well as the S&P 500 and the S&P 500 Total Return Index, over various time horizons through June 30, 2015. Returns for time periods greater than one year are annualized. Over the last three and five-year periods, the U.S. market has significantly outperformed Asian, European, and emerging markets.

	Re	egional Indices			
	3 Mo	1 Yr	3 Yr	5 Yr	10 Yr
MSCI Asia	1.1%	3.7%	8.9%	5.7%	4.2%
MSCI Europe	(0.9%)	(9.9%)	9.3%	6.8%	2.0%
MSCI EM	(0.2%)	(7.5%)	1.2%	1.2%	5.6%
MSCI ACWI	(0.3%)	(1.2%)	10.7%	9.6%	4.2%
S&P 500	(0.2%)	5.2%	14.8%	14.9%	5.6%
S&P 500 Total Return*	0.3%	7.4%	17.3%	17.3%	7.9%

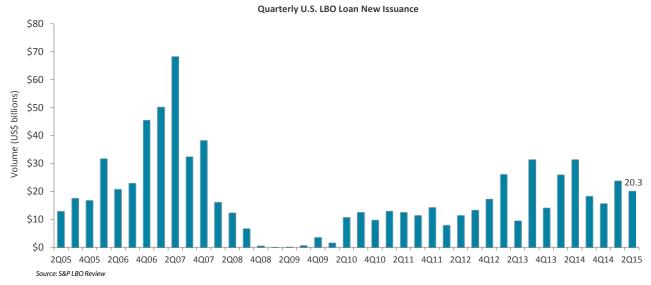
For the period ended June 30, 2015  $\,$ 

\*Includes reinvestment of dividends.

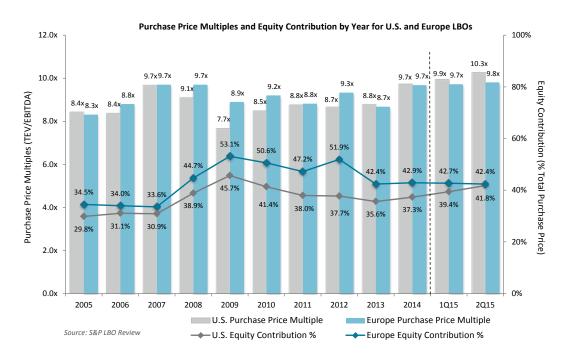
Source: Capital IQ

#### **Debt Markets**

During the second quarter of 2015, U.S. LBO new loan issuance totaled US\$20.3 billion, representing a decrease of 15% from the prior quarter, yet is 9% higher than the 10-year quarterly average of US\$18.6 billion. The following chart shows the quarterly volume of U.S. LBO new loan issuance for the past ten years.



In the second quarter, weighted average purchase price multiples for U.S. LBO deals increased to 10.3x total enterprise value ("TEV") to EBITDA, notably higher than 2014's annual weighted multiple of 9.7x and a slight increase from the average purchase price multiple from the first quarter of 2015. The increase was driven by large deals for companies with EBITDA greater than US\$500 million, which accounted for 64% of the data. Purchase price multiples and average equity contribution for Europe LBOs remained stable during the second quarter. The following chart compares purchase price multiples and equity contribution percentages for LBO deals in the U.S. and Europe.



#### **Private Equity Market Overview**

#### **All Private Equity**

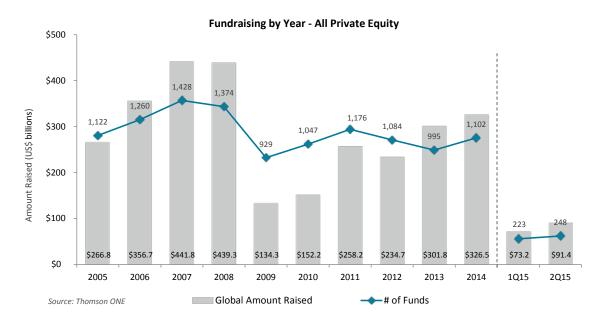
The All Private Equity benchmark returned 4.0% during the second quarter, as all sectors produced positive quarterly returns as shown in the table below. Notably, venture capital funds outperformed the other sectors over both the three month and one year period ending June 30, 2015. The table below shows the pooled Internal Rate of Return ("IRR") performance of global private equity investments by sector over various investment horizons through June 30, 2015.

Sector	3 Mo	1 Yr	3 Yr	5 Yr	10 Yr
Small/Middle Buyouts (<\$3bn)	3.8%	6.7%	12.8%	13.5%	12.9%
Large Buyouts (>\$3bn)	4.7%	7.6%	16.9%	15.8%	11.1%
Mezzanine	3.3%	4.7%	9.1%	10.0%	8.9%
Venture Capital	5.7%	23.0%	19.6%	17.9%	11.5%
All Private Equity	4.0%	7.8%	14.4%	14.2%	11.3%

Source: Burgiss PrivateiQ

#### **Fundraising**

Private equity fundraising rose 25% quarter-over-quarter to US\$91.4 billion, placing 2015 on track to reach similar levels as 2014. The significant increase in fundraising levels came from Venture Capital and Buyout funds, which raised 36% and 27% more capital during the second quarter versus the first quarter of 2015. Geographically, U.S. fundraising represented approximately 72% of the total amount raised in the second quarter, while Europe, Asia, and the rest of the world accounted for 21%, 3%, and 4% of the total capital raised, respectively. The chart below shows private equity fundraising activity over the past ten years, as well as the first and second quarters of 2015.

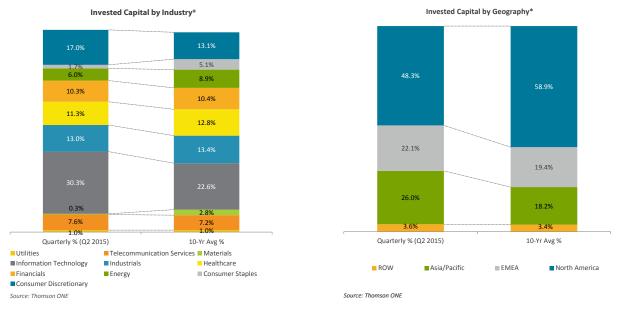


#### **Investment Activity**

Private equity funds invested US\$61.2 billion during the second quarter, an increase of 33% over the same period in 2014. The largest deal during the second quarter occurred when Informatica, a U.S.-based enterprise software company, was taken private in a deal valued at approximately \$5.3 billion. Due to an increase in large-cap deals, the average private equity investment value increased 52% quarter-over-quarter to US\$17.7 million. Excluding the Informatica buyout, average investment size increased 38% quarter-over-quarter to \$16.2 million.



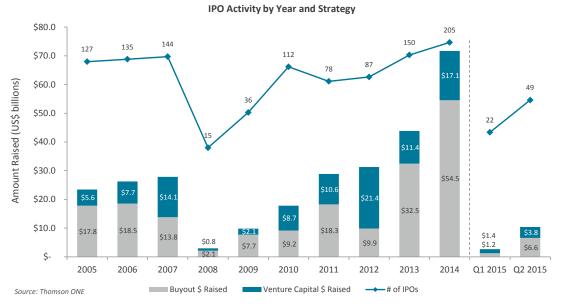
The graphs below depict the percentage of invested capital by industry and geography for the second quarter of 2015 and over the last ten years. The Information Technology sector continued to attract the most capital, however, its share of total invested capital dropped from 45% to 30% quarter-over-quarter, accounting for US\$18.5 billion of transactions by private equity firms. In the second quarter of 2015, investment activity in the North America region was below the historical average, representing 48% of total invested capital during the quarter compared to 59% over the last ten years. Relative to the ten-year average the Asia/Pacific region saw the greatest increase in investment activity during the second quarter.



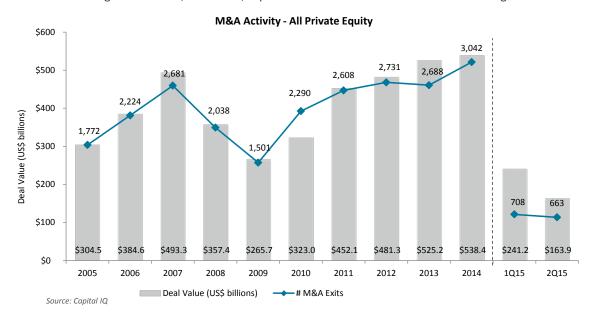
<sup>\*</sup>Note: Invested Capital is for all private equity from Q2 2005 – Q2 2015.

#### **Deal Environment**

During the second quarter, the IPO market recovered moderately from the prior quarter's sharp decline in activity. Specifically, 49 private equity-backed IPOs occurred during the quarter, raising an aggregate US\$10.4 billion, compared to only \$2.7 billion raised from 22 IPOs in the previous quarter. The largest IPO to occur in the second quarter on US exchanges was Tallgrass Energy (NYSE:TEP), a portfolio of midstream energy assets, which began trading in early May 2015, raising US\$4.9 billion. The following graph shows the value raised and the number of IPOs on the NYSE and NASDAQ over the past ten years, as well as the first and second quarters of 2015.



Private equity-backed Mergers and Acquisitions ("M&A") activity fell 32% quarter-over-quarter, with deal value totaling US\$163.9 billion. Recently, maturing startups have found late-stage private capital preferable to pursuing an acquisition or participating in public markets. The largest deal of the quarter was the €5.5 billion merger between Pioneer Investments and Santander Asset Management which, combined, represents €397.5 billion in assets under management.



## III. Portfolio Review

#### **Quarterly Highlights**

- Cash Flow Activity During the second quarter of 2015, the Portfolio made US\$30.3 million of contributions and received US\$56.8 million of distributions, for a net cash inflow of US\$26.5 million, compared to a net cash outflow of US\$5.7 million during the prior quarter and a net cash outflow of US\$10.0 million during the second quarter of 2014. Contributions decreased 9.0% from the prior quarter and decreased 27.0% from the second quarter of 2014. The most recent four quarter average of the Program's contributions is US\$36.8 million. Distributions increased 106.1% from the prior quarter and increased 80.5% from the second quarter of 2014. The most recent four quarter average of the Program's distributions is US\$40.1 million.
- Recent Portfolio Activity During the second quarter of 2015, net of cash flow activity, the valuation of the Portfolio increased by US\$25.1 million, or 3.4%, from the prior quarter. The increase in Portfolio value is primarily attributable to strong performance of mega buyout funds during the quarter, which generated a US\$7.2 million increase in valuation from the prior quarter-end. During the last twelve months, net of cash flow activity and Pro-Forma for the Secondary Sale, the valuation of the Portfolio increased by US\$76.0 million, or 11.1%, from the quarter ended June 30, 2014.
- **New Investment Commitments** During the second quarter of 2015, the Program closed on five new investment commitments, totaling US\$31.2 million.

As of June 30, 2015 (US\$ in millions)	<b>Month Closed</b>	Sub-Strategy	Geographic Focus	Committ	ed Capital
Valor Equity Partners III, L.P.	May 2015	Small Buyout	North America	\$	1.5
Welsh, Carson, Anderson & Stowe XII, L.P.	June 2015	Large Buyout	North America		14.0
Bridgepoint Europe V	June 2015	Large Buyout	Western Europe		11.0
Bridgepoint Europe V Co-Invest	June 2015	Co/Direct Investment	Western Europe		3.3
Patriot Financial Partners II, L.P.	June 2015	Small Buyout	North America		1.3
Total				\$	31.2

• **Subsequent Investment Commitments** – Subsequent to quarter-end through November 20, 2015, the Program closed on two new investment commitments, totaling US\$63.6 million.

As of November 20, 2015 (US\$ in millions)	<b>Month Closed</b>	Sub-Strategy	Geographic Focus	Commit	tted Capital
EQT VII, L.P.	July 2015	Mega Buyout	Western Europe	\$	27.6
Warburg Pincus Private Equity XII, L.P.	November 2015	Growth Equity	Global		36.0
Total				\$	63.6

#### **Investment Performance**

#### **Since Inception Performance**

US\$ in millions	June 30, 2015	March 31, 2015	June 30, 2014	Quarterly Change	Yearly Change
Active Investments					
Number of Managers	104	102	96	2	8
Number of Investments	165	161	154	4	11
Committed Capital <sup>1</sup>	\$1,461.2	\$1,437.6	\$1,392.6	\$23.6	\$68.6
Contributed Capital	\$1,123.6	\$1,103.4	\$1,003.4	\$20.3	\$120.2
Distributed Capital <sup>2</sup>	\$815.5	\$772.5	\$707.1	\$43.0	\$108.4
Market Value <sup>2</sup>	\$761.3	\$762.7	\$696.5	(\$1.4)	\$64.8
Total Value	\$1,576.8	\$1,535.2	\$1,403.6	\$41.6	\$173.3
Total Gain/(Loss)	\$453.2	\$431.8	\$400.1	\$21.4	\$53.0
Unfunded Commitment <sup>3</sup>	\$482.3	\$474.4	\$522.7	\$8.0	(\$40.4)
Total Exposure <sup>4</sup>	\$1,243.7	\$1,237.1	\$1,219.2	\$6.6	\$24.4
DPI <sup>5</sup>	0.73x	0.70x	0.70x	0.03x	0.02x
TVM <sup>6</sup>	1.40x	1.39x	1.40x	0.01x	0.00x
IRR <sup>7</sup>	11.5%	11.3%	11.9%	+ 23 bps	- 40 bps
Exited Investments				·	· ·
Number of Managers	13	12	11	1	2
Number of Investments	15	14	13	1	2
Committed Capital <sup>1</sup>	\$82.0	\$72.0	\$58.2	\$10.0	\$23.8
Contributed Capital	\$92.3	\$82.2	\$65.2	\$10.0	\$27.0
Distributed Capital <sup>2</sup>	\$114.1	\$100.3	\$64.1	\$13.8	\$50.0
Total Value	\$114.1	\$100.3	\$64.1	\$13.8	\$50.0
Total Gain/(Loss)	\$21.8	\$18.1	(\$1.1)	\$3.8	\$22.9
Unfunded Commitment <sup>3</sup>	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
DPI <sup>5</sup>	1.24x	1.22x	0.98x	0.02x	0.25x
TVM <sup>6</sup>	1.24x	1.22x	0.98x	0.02x	0.25x
IRR <sup>7</sup>	7.1%	7.4%	-0.5%	- 25 bps	+ 763 bps
Total Portfolio					
Number of Managers	114	112	106	2	8
Number of Investments	180	175	167	5	13
Committed Capital <sup>1</sup>	\$1,543.2	\$1,509.6	\$1,450.7	\$33.6	\$92.4
Contributed Capital	\$1,215.9	\$1,185.6	\$1,068.7	\$30.3	\$147.2
Distributed Capital <sup>2</sup>	\$929.6	\$872.8	\$771.2	\$56.8	\$158.4
Market Value <sup>2</sup>	\$761.3	\$762.7	\$696.5	(\$1.4)	\$64.8
Total Value	\$1,690.9	\$1,635.5	\$1,467.7	\$55.4	\$223.2
Total Gain/(Loss)	\$475.0	\$449.9	\$399.0	\$25.1	\$76.0
Unfunded Commitment <sup>3</sup>	\$482.3	\$474.4	\$522.7	\$8.0	(\$40.4)
Total Exposure <sup>4</sup>	\$1,243.7	\$1,237.1	\$1,219.2	\$6.6	\$24.4
DPI <sup>5</sup>	0.76x	0.74x	0.72x	0.03x	0.04x
TVM <sup>6</sup>	1.39x	1.38x	1.37x	0.01x	0.02x
IRR <sup>7</sup>	11.0%	11.0%	11.1%	+ 8 bps	- 3 bps

<sup>&</sup>lt;sup>1</sup>Committed Capital is presented net of any commitment releases or expirations and reflects foreign currency exchange rate fluctuations.
<sup>2</sup>Please note that the Distributions and Market Value are presented Pro-Forma for the sale of nine partnership investments in secondary transactions that closed during the first half of 2012.

<sup>&</sup>lt;sup>3</sup> Unfunded Commitment represents the aggregate remaining commitments to partnership investments.

<sup>&</sup>lt;sup>4</sup>Total Exposure represents the sum of Market Value and Unfunded Commitment.

<sup>&</sup>lt;sup>5</sup> DPI, or Distributed to Paid-In Multiple, is a performance metric that measures distributions received relative to capital invested. DPI is calculated as Distributed Capital divided by Contributed Capital.

<sup>6</sup> TVM, or Total Value Multiple, is a performance metric that measures total value created by the Portfolio relative to capital invested, without consideration for time. TVM is calculated as Total Value, which is comprised of Market Value plus Distributed Capital, divided by Contributed Capital.

RiR, or Internal Rate of Return, is a performance metric that is calculated based on the Portfolio's daily cash flows and market value as of quarter-end. IRR is net of fund manager's fees, expenses and carried interest.



#### **Performance by Vintage Year**

The following table and chart illustrate the Portfolio's since inception investment performance by vintage year as of June 30, 2015 relative to the median quartile U.S. All Private Equity TVM and IRR benchmarks as provided by Thomson ONE/Cambridge. Performance of funds that are less than two years old are not meaningful. Note that Thomson ONE/Cambridge data is continuously updated and is therefore subject to change.

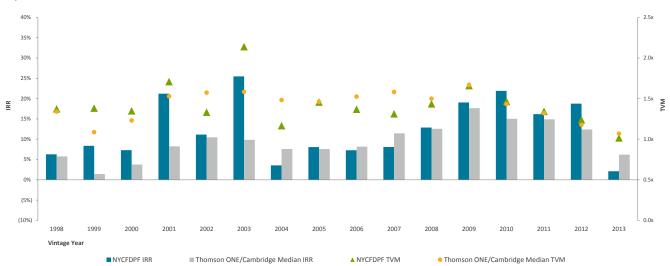
As of June 30, 2015 (US\$ in millions)

Vintage Year	Committed Capital	Contributed Capital	Distributed Capital	Market Value	Unfunded Commitment	Total Exposure	TVM	IRR	PME Benchmark <sup>1</sup>	PME Spread <sup>2</sup>	Thomson ONE / Cambridge U.S. All PE Median Quartile TVM	Thomson ONE / Cambridge U.S. All PE Median Quartile IRR
1998	\$10.0	\$10.0	\$13.8	\$0.0	\$0.0	\$0.0	1.37x	6.3%	3.4%	2.9%	1.34x	5.8%
1999	54.5	62.9	78.3	8.7	0.6	9.3	1.38x	8.4%	6.4%	2.0%	1.09x	1.4%
2000	28.8	33.8	41.1	4.5	-	4.5	1.35x	7.3%	6.3%	1.0%	1.23x	3.8%
2001	49.1	58.5	99.0	1.1	2.0	3.1	1.71x	21.2%	8.3%	13.0%	1.53x	8.2%
2002	10.0	12.2	13.4	2.9	0.3	3.2	1.33x	11.2%	9.0%	2.2%	1.57x	10.5%
2003	28.9	32.3	61.6	7.4	2.6	10.0	2.14x	25.5%	7.3%	18.2%	1.58x	9.9%
2004	49.3	51.1	47.2	12.5	2.8	15.3	1.17x	3.6%	6.6%	-3.0%	1.48x	7.6%
2005	69.0	75.9	72.0	38.5	3.8	42.4	1.46x	8.1%	7.6%	0.4%	1.46x	7.6%
2006	135.4	149.1	134.3	69.8	7.5	77.4	1.37x	7.3%	8.8%	-1.5%	1.52x	8.2%
2007	123.4	129.0	96.4	73.1	11.7	84.8	1.31x	8.1%	11.6%	-3.6%	1.58x	11.5%
2008	197.1	207.0	154.5	142.6	26.7	169.3	1.44x	12.9%	14.9%	-2.0%	1.50x	12.6%
2009	46.9	44.4	31.0	42.7	5.4	48.1	1.66x	19.1%	16.3%	2.7%	1.67x	17.7%
2010	42.5	39.3	21.6	36.0	11.2	47.2	1.47x	21.9%	15.8%	6.1%	1.43x	15.0%
2011	168.4	138.6	43.8	142.5	44.1	186.6	1.34x	16.2%	16.5%	-0.3%	1.32x	14.9%
2012	158.8	93.4	18.5	97.2	69.8	167.0	1.24x	18.8%	14.3%	4.5%	1.18x	12.4%
2013	172.0	36.5	2.2	34.9	136.3	171.2	1.02x	2.1%	9.0%	-6.9%	1.07x	6.2%
2014	148.4	41.7	0.7	46.9	106.9	153.7	NM	NM	NM	N/A	NM	NM
2015	50.8	0.0	-	(0.2)	50.7	50.6	NM	NM	NM	N/A	NM	NM
Total	\$1,543.2	\$1,215.9	\$929.6	\$761.3	\$482.3	\$1,243.7	1.39x	11.0%	10.1%	0.9%	1.38x	9.0%

<sup>1</sup> Russell 3000 PME+

 $<sup>^{\</sup>rm 2}$  PME Spread is calculated as IRR minus PME Benchmark.





#### Portfolio Periodic Returns vs. Russell 3000® Index

As of June 30, 2015	1 Year	3 Year	5 Year	10 Year	Since Inception
NYCFDPF IRR	10.8%	13.7%	13.0%	11.3%	11.0%
Russell 3000®1	7.4%	17.8%	17.5%	10.8%	10.1%
Russell 3000® + 300 bps1	10.4%	20.8%	20.5%	13.8%	13.1%
NYCFDPF Outperformance/(Underperforman	ce)				
vs. Russell 3000® + 300 bps¹	0.4%	(7.0%)	(7.5%)	(2.5%)	(2.1%)

<sup>&</sup>lt;sup>1</sup>Benchmark is a dollar-weighted PME+ calculation of quarterly changes in the Russell 3000® Index. Russell Investment Group is the source and owner of the trademark, service marks and copyrights related to the Russell Indexes. Russell® is a trademark of Russell Investment Group.

#### Performance by Strategy / Sub-Strategy

The following table and charts illustrate the Portfolio's since inception investment performance by strategy and substrategy as of June 30, 2015.

As of June 30, 2015 (US\$ in millions)

Strategy / Sub-Strategy	Committed Capital	Contributed Capital	Distributed Capital	Market Value	Unfunded Commitment	Total Exposure	TVM	IRR
Buyout	\$966.0	\$788.9	\$699.5	\$446.2	\$291.2	\$737.3	1.45x	12.9%
Mega Buyout	300.0	214.7	176.4	137.2	114.1	251.3	1.46x	14.4%
Large Buyout	217.3	168.1	163.5	102.0	77.2	179.2	1.58x	26.1%
Middle-Market Buyout	227.5	187.8	173.3	95.8	69.8	165.6	1.43x	8.9%
Small Buyout	221.1	218.3	186.2	111.2	30.1	141.3	1.36x	9.8%
Growth Equity	119.2	93.1	36.4	90.4	38.1	128.5	1.36x	15.6%
Special Situations	87.0	69.5	49.5	46.8	29.2	76.0	1.39x	15.3%
Energy	37.5	38.7	18.7	21.4	3.0	24.4	1.04x	0.9%
Secondaries	169.6	77.6	42.1	70.1	93.3	163.4	1.45x	19.6%
Co-Investment	34.7	12.5	1.9	12.7	22.4	35.1	1.17x	9.8%
Other	129.1	135.7	81.4	73.7	5.1	78.8	1.14x	2.7%
Venture Capital	112.6	115.5	58.5	69.0	3.9	72.9	1.10x	1.8%
Mezzanine	16.5	20.1	22.9	4.7	1.3	5.9	1.37x	12.0%
Total	\$1,543.2	\$1,215.9	\$929.6	\$761.3	\$482.3	\$1,243.7	1.39x	11.0%

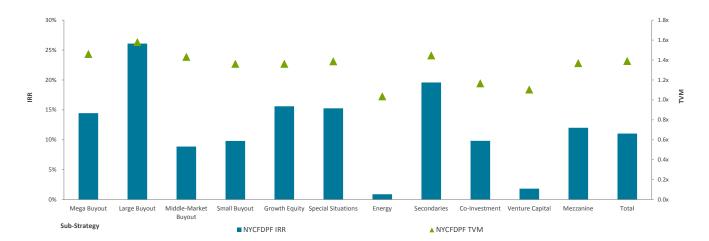
#### **Performance by Strategy**

As of June 30, 2015



#### **Performance by Sub-Strategy**

As of June 30, 2015



#### **Portfolio Diversification**

The following tables illustrate the Portfolio's diversification by strategy and fund geographic focus as of June 30, 2015.

#### By Strategy/Sub-Strategy

	Marke	t Value	Unfunded C	ommitment	Total Ex	posure
As of June 30, 2015 (US\$ in millions)	\$	% of Total	\$	% of Total	\$	% of Total
Buyout	446.2	58.6%	291.2	60.4%	737.3	59.3%
Mega Buyout	137.2	18.0%	114.1	23.7%	251.3	20.2%
Large Buyout	102.0	13.4%	77.2	16.0%	179.2	14.4%
Middle-Market Buyout	95.8	12.6%	69.8	14.5%	165.6	13.3%
Small Buyout	111.2	14.6%	30.1	6.2%	141.3	11.4%
Growth Equity	90.4	11.9%	38.1	7.9%	128.5	10.3%
Special Situations	46.8	6.2%	29.2	6.1%	76.0	6.1%
Energy	21.4	2.8%	3.0	0.6%	24.4	2.0%
Secondaries	70.1	9.2%	93.3	19.3%	163.4	13.1%
Co-Investment	12.7	1.7%	22.4	4.7%	35.1	2.8%
Other	73.7	9.7%	5.1	1.1%	78.8	6.3%
Venture Capital	69.0	9.1%	3.9	0.8%	72.9	5.9%
Mezzanine	4.7	0.6%	1.3	0.3%	5.9	0.5%
Total	761.3	100.0%	482.3	100.0%	1,243.7	100.0%

#### **By Fund Geographic Focus**

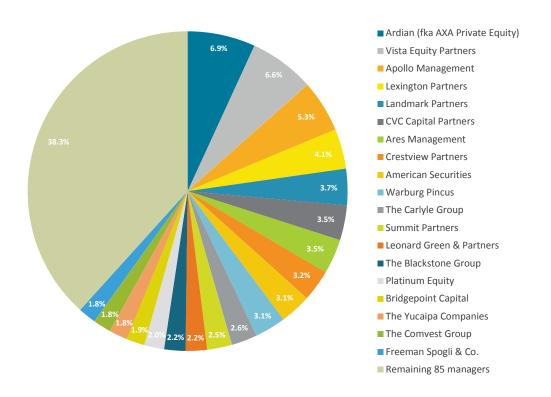
	Marke	Market Value		ommitment	Total E	Total Exposure	
As of June 30, 2015 (US\$ in millions)	\$	% of Total		% of Total		% of Total	
North America	534.2	70.2%	288.4	59.8%	822.6	66.1%	
Global	157.8	20.7%	162.8	33.7%	320.5	25.8%	
Western Europe	62.5	8.2%	30.6	6.3%	93.1	7.5%	
Rest of World	6.9	0.9%	0.6	0.1%	7.5	0.6%	
Total	761.3	100.0%	482.3	100.0%	1,243.7	100.0%	

Prior to a fund being 75% drawn, fund geographic focus is based on the GP-stated geographic strategy. Subsequent to a fund being 75% drawn, fund geographic focus is based on actual portfolio company exposure by total invested capital. Funds with less than 75% of total invested capital allocated to one geographic region are classified as Global.

#### By Investment Manager

As of June 30, 2015, the Portfolio was highly diversified by investment manager, with 19 managers comprising US\$767.4 million, or 61.7% of total exposure. The remaining 85 managers comprised 38.3% of total exposure as of quarter-end.

Portfolio Total Exposure by Investment Manager As of June 30, 2015

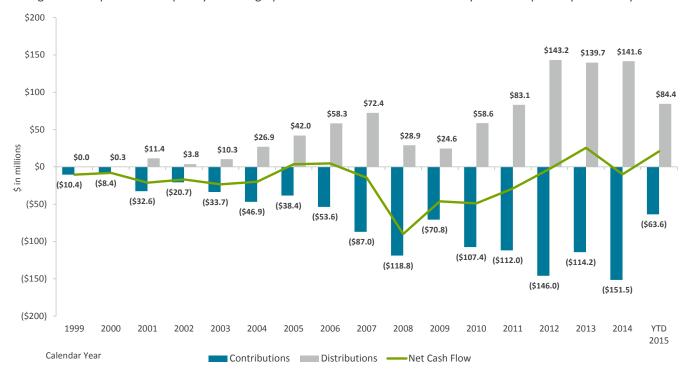


#### **Portfolio Cash Flow Analysis**

The following yearly and quarterly cash flow analysis is based on actual Portfolio cash flows during those time periods, excluding the proceeds expected to be received from the Secondary Sale that closed in the first half of 2012.

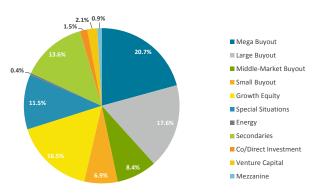
#### Year to Date Cash Flow Activity

During the six months ended June 30, 2015, the Portfolio made US\$63.6 million of contributions and received US\$84.4 million of distributions, for a net cash inflow of US\$20.8 million, compared to a net cash outflow of US\$2.4 million during the same period in the prior year. The graph below illustrates cash flow activity since inception by calendar year.

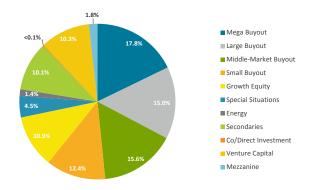


Buyout funds were the most active in terms of cash flow activity during the first six months of 2015. Buyout funds drew down US\$34.1 million, or 53.6% of total contributions during first six months of 2015, and distributed US\$51.3 million, or 60.8% of total distributions during the first six months of 2015.

#### YTD 2015 Total Contributed by Sub-Strategy

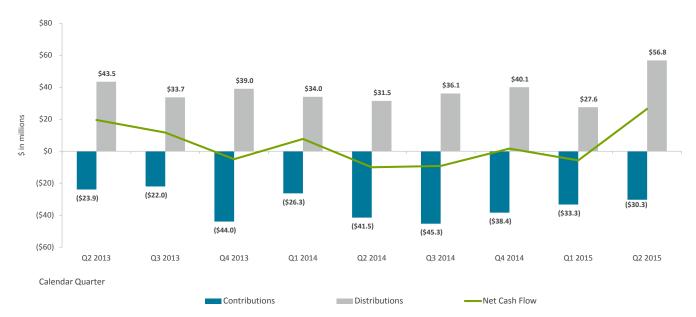


#### YTD 2015 Total Distributed by Sub-Strategy



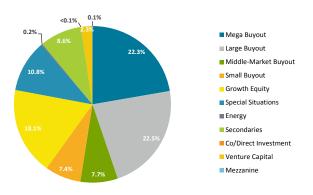
#### **Quarterly Cash Flow Activity**

During the second quarter of 2015, the Portfolio made US\$30.3 million of contributions and received US\$56.8 million of distributions, for a net cash inflow of US\$26.5 million. The graph below illustrates recent cash flow activity by quarter.

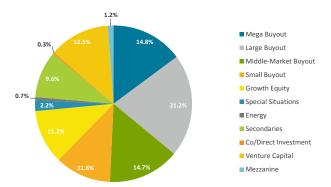


Buyout funds were the most active in terms of cash flow activity during the second quarter of 2015. Buyout funds drew down US\$16.0 million, or 47.9% of total contributions during the quarter, and distributed US\$15.9 million, or 57.7% of total distributions during the quarter.

#### Q2 2015 Total Contributed by Sub-Strategy

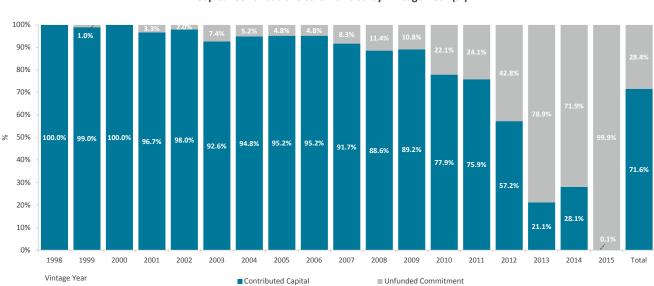


#### Q2 2015 Total Distributed by Sub-Strategy



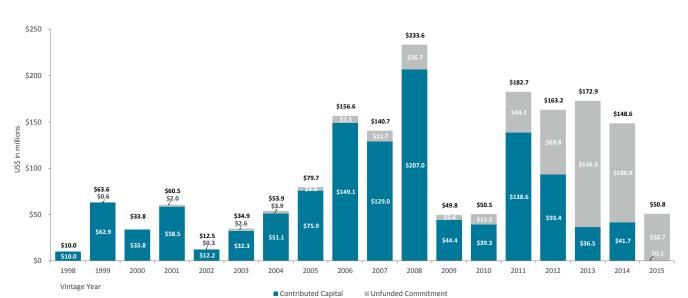
#### **Invested Capital by Vintage Year**

The following chart illustrates cumulative net capital contributions as a percentage of total capital commitments, by fund vintage year, as of June 30, 2015.



#### Capital Contributions to Unfunded by Vintage Year (%)

The following chart illustrates cumulative net capital contributions relative to unfunded commitment, by fund vintage year, as of June 30, 2015.



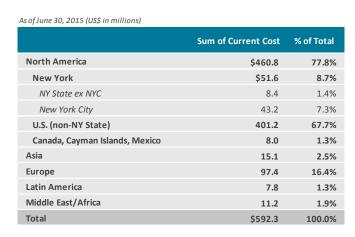
#### **Capital Contributions to Unfunded by Vintage Year**

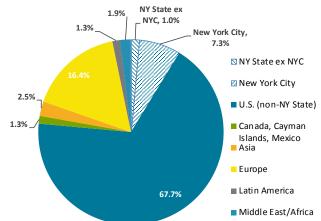
#### **Portfolio Company-Level Analysis**

#### **Geographic Exposure**

The following charts illustrate the Portfolio's current exposure by geography at the portfolio company level as of June 30, 2015. Please note that the geography is based upon the corporate headquarters of each portfolio company.

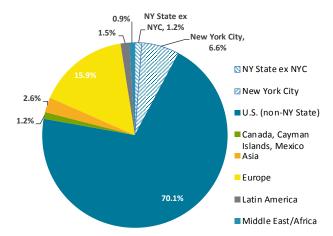
#### **Geographic Exposure by Current Cost**





#### **Geographic Exposure by Current Market Value**

As of June 30, 2015 (US\$ in millions)		
	Sum of Current Market Value	% of Total
North America	\$640.9	79.0%
New York	\$63.1	7.8%
NY State ex NYC	9.7	1.2%
New York City	53.4	6.6%
U.S. (non-NY State)	568.3	70.1%
Canada, Cayman Islands, Mexico	9.5	1.2%
Asia	21.2	2.6%
Europe	128.9	15.9%
Latin America	12.6	1.5%
Middle East/Africa	7.7	0.9%
Total	\$811.2	100.0%

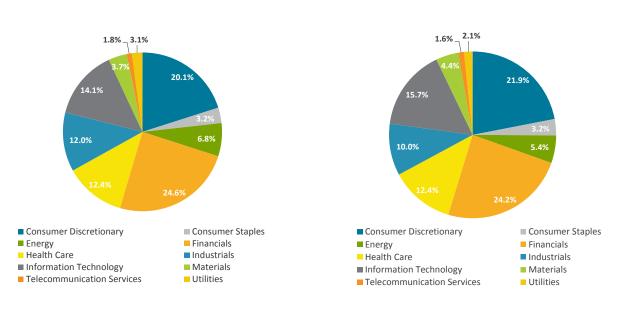


#### **Industry Exposure**

The following charts illustrate the Portfolio's current exposure by industry at the portfolio company level as of June 30, 2015. Please note that the Financials category includes investments in various debt securities as well as certain undisclosed fund of funds investments.



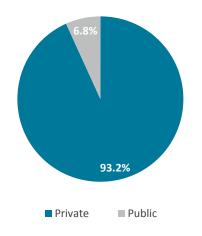
#### **Industry Exposure by Current Market Value**



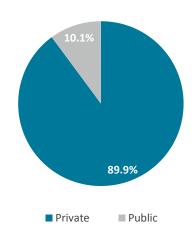
#### **Public Market Exposure**

As of quarter-end, publicly traded investments comprised 6.8% of the Portfolio's exposed cost and 10.1% of the Portfolio's exposed market value. The following charts illustrate the current public market exposure at the portfolio company level.

**Public Market Exposure by Current Cost** 



**Public Market Exposure Current Market Value** 



# IV. Appendix



#### New York City Fire Department Pension Fund, Subchapter 2 Private Equity Portfolio As of June 30, 2015 (in USD)

Vintage		Fire D.	Committed	Contributed	Distributed	No. of the last of	Baulet I	10.0	PME	PME
Year	Investment	First Drawdown	Capital	Capital	Capital	Market Value	Multiple	IRR	Benchmark <sup>1</sup>	Spread <sup>2</sup>
	vestments									
1999	Cypress Merchant Banking Partners II, L.P.	3/29/1999	\$ 22,586,486				0.95x	(1.0%)	5.5%	(6.6%)
1999	FdG Capital Partners LLC	6/2/1999	25,000,000	28,756,836	42,947,884	4,464,066	1.65x	14.5%	6.6%	7.9%
1999 2000	Lincolnshire Equity Fund II, L.P.  SCP Private Equity Partners II, L.P.	10/20/1999 6/15/2000	6,899,005 15,000,000	7,223,050 16,834,296	13,673,658 5,125,651	449,630 4,493,722	1.96x 0.57x	24.6% (7.0%)	6.9% 5.5%	17.7% (12.5%)
2001	New Mountain Partners, L.P.	3/16/2001	9,070,967	8,558,234	12,215,748	239,922	1.46x	12.4%	6.2%	6.2%
2001	Apollo Investment Fund V, L.P.	4/13/2001	15,000,000	23,371,979	45,924,747	592,243	1.99x	38.8%	8.4%	30.4%
2001	CVC European Equity Partners III, L.P.	9/4/2001	10,000,000	11,579,021	29,775,858	266,693	2.59x	41.1%	10.8%	30.2%
2002	Yucaipa American Alliance Fund I, LP	7/1/2002	5,000,000	7,491,869	6,475,457	2,461,877	1.19x	5.2%	10.3%	(5.1%)
2002	Landmark Equity Partners XI, L.P.	10/23/2002	5,000,000	4,753,167	6,911,277	477,130	1.55x	23.7%	7.5%	16.3%
2003	FS Equity Partners V, L.P.	1/20/2003	10,000,000	9,164,586	15,963,872	2,507,694	2.02x	16.0%	5.4%	10.7%
2003	Blackstone Capital Partners IV, L.P.	2/26/2003	13,875,989	17,122,989	37,083,480	4,434,081	2.42x	36.6%	8.5%	28.2%
2003 2004	Ares Corporate Opportunities Fund, L.P.  Markstone Capital Partners, LP	4/1/2003 1/30/2004	5,000,000 5,000,000	6,000,993 5,862,384	8,592,476 2,446,015	506,418 307,994	1.52x 0.47x	13.4% (46.6%)	7.4% 18.8%	6.0% (65.4%)
2004	Euro Choice II (Delaware) L.P.	2/25/2004	6,751,276	6,714,168		2,349,304	1.48x	7.6%	6.3%	1.3%
2004	FdG Capital Partners II LP	8/30/2004	5,000,000	5,342,679	6,071,286	381,977	1.21x	3.8%	6.6%	(2.9%)
2004	Paladin Homeland Security Fund (NY City), L.P.	9/27/2004	7,500,000	8,118,461	2,459,828	2,285,788	0.58x	(7.4%)	6.4%	(13.8%)
2004	Lincolnshire Equity Fund III, L.P.	10/1/2004	5,000,000	4,778,908	6,182,269	2,642,050	1.85x	31.4%	10.9%	20.5%
2004	New York/Fairview Emerging Managers Fund, L.PTranche 1	10/21/2004	2,000,000	2,011,207	1,101,182	1,236,702	1.16x	3.0%	9.0%	(6.1%)
2004	Aurora Equity Partners III L.P.	11/16/2004	5,000,000	5,411,986	8,623,720	466,118	1.68x	14.3%	9.9%	4.4%
2004	Trilantic Capital Partners III L.P.	11/18/2004	5,000,000	4,509,325	7,254,182	164,558	1.65x	14.7%	3.9%	10.8%
2004	Celtic Pharmaceutical Holdings L.P.	12/23/2004	2,500,000	2,540,209	40,209	1,519,573	0.61x	(6.0%)	9.2%	(15.2%)
2004	Medica III Investments (International) L.P.	8/21/2006	3,000,000	2,937,724	1,267,948	1,156,000	0.83x	(5.0%)	(2.9%)	(2.1%)
2005 2005	Palladium Equity Partners III, L.P.  New Mountain Partners II, L.P.	11/12/2004 1/12/2005	10,000,000 2,580,650	10,355,575 2,320,910	13,911,405 4,316,039	7,489,368 197,989	2.07x 1.94x	19.0% 13.7%	11.7% 4.5%	7.2% 9.1%
2005	VSS Communications Partners IV, L.P.	3/14/2005	2,500,000	2,820,670	1,517,740	662,201	0.77x	(4.6%)	7.5%	(12.2%)
2005	Carlyle Partners IV, L.P.	4/29/2005	5,000,000	5,153,158		713,316	2.00x	13.3%	4.2%	9.1%
2005	Prism Venture Partners V-A, L.P.	7/14/2005	7,500,000	7,690,681	3,671,461	2,580,327	0.81x	(4.2%)	8.2%	(12.4%)
2005	Snow Phipps Group, L.P.	9/7/2005	5,000,000	5,727,781	4,449,061	3,064,418	1.31x	7.8%	11.0%	(3.2%)
2005	GI Partners Fund II L.P.	9/26/2005	2,500,000	2,526,205	2,932,168	982,550	1.55x	7.5%	5.7%	1.8%
2005	Blackstone Mezzanine Partners II, L.P.	10/10/2005	3,000,000	2,863,167	3,414,132	315,029	1.30x	7.3%	3.6%	3.7%
2005	Psilos Group Partners III, L.P.	10/24/2005	2,500,000	2,657,559	1,282,054	2,074,934	1.26x	5.1%	7.9%	(2.8%)
2005	FirstMark Capital I, L.P. (fka FirstMark IV)	11/21/2005	1,500,000	1,622,375	1,989,673	8,133,913	6.24x	45.3%	10.3%	34.9%
2005 2005	USPF II Institutional Fund, L.P. Bridgepoint Europe III	11/23/2005	5,000,000	6,594,940	4,411,510 2,929,136	4,179,696 2,816,821	1.30x 1.15x	5.7% 2.2%	7.3% 5.8%	(1.6%)
2005	JP Morgan Fleming (Tranche A)	12/6/2005 12/21/2005	5,397,252 3,000,000	4,993,430 2,879,847	1,981,853	2,068,180	1.15x 1.41x	7.9%	10.9%	(3.5%)
2005	Arlington Capital Partners II, L.P.	4/20/2006	4,000,000	4,062,339	4,464,599	2,092,702	1.61x	10.5%	6.8%	3.7%
2005	Levine Leichtman Capital Partners Deep Value Fund, L.P.	1/16/2007	5,000,000	6,229,039	5,352,265	1,177,095	1.05x	1.3%	5.0%	(3.7%)
2006	Aisling Capital II, LP	1/12/2006	1,000,000	1,172,182	725,667	734,481	1.25x	4.4%	7.9%	(3.5%)
2006	InterMedia Partners VII, L.P.	1/20/2006	2,500,000	2,867,179	1,614,731	2,979,375	1.60x	7.6%	10.3%	(2.7%)
2006	Terra Firma Capital Partners III, L.P.	3/8/2006	5,222,631	5,209,318	111,319	2,766,061	0.55x	(10.4%)	5.4%	(15.8%)
2006	Fenway Partners Capital Fund III, L.P.	3/29/2006	5,000,000	5,636,655	4,274,025	1,853,999	1.09x	1.9%	7.1%	(5.3%)
2006	Blackstone Capital Partners V, L.P.	4/13/2006	9,481,463	10,019,791	9,602,231	6,741,056	1.63x	8.7%	8.5%	0.1%
2006	Avista Capital Partners, L.P.	4/27/2006	5,000,000	6,490,042	5,369,129	3,042,501	1.30x	6.0%	6.3%	(0.3%)
2006 2006	Apollo Investment Fund VI, L.P.  Ares Corporate Opportunities Fund II, L.P.	5/10/2006 5/23/2006	20,000,000 5,000,000	25,741,832 5,473,549	30,988,756 8,274,212	8,449,023 1,111,584	1.53x 1.71x	9.8% 14.0%	7.6% 4.1%	2.2% 9.8%
2006	CCMP Capital Investors II, L.P.	8/17/2006	5,000,000	5,471,730		3,282,025	1.68x	14.6%	10.8%	3.8%
2006	CLP 2014 (fka Perseus Partners VII)	8/31/2006	5,000,000	5,814,170	1,588,639	148,417	0.30x	(36.5%)	13.1%	(49.6%)
2006	Euro Choice III L.P.	11/21/2006	5,321,633	5,135,935	2,493,880	3,227,170	1.11x	2.5%	12.6%	(10.1%)
2006	Thomas, McNerney & Partners II, L.P.	11/29/2006	3,000,000	2,845,794	4,841,963	1,643,658	2.28x	17.9%	11.8%	6.2%
2006	Catterton Partners VI, L.P.	12/14/2006	5,000,000	5,470,310	6,617,280	3,699,828	1.89x	13.8%	8.7%	5.0%
2006	First Reserve Fund XI, L.P.	12/14/2006	5,000,000	5,313,265	3,035,607	1,285,114	0.81x	(4.9%)	6.3%	(11.2%)
2006	Permira IV, L.P.	12/14/2006	5,515,651	5,817,661	5,584,086	2,657,418	1.42x	7.6%	9.4%	(1.7%)
2006	Arsenal Capital Partners II, LP	12/18/2006	4,000,000	4,832,589	4,435,947	2,929,727	1.52x	10.0%	11.9%	(1.9%)
2006	GF Capital Private Equity Fund, L.P.	12/18/2006	3,000,000	2,991,772	2,161,108	2,992,034	1.72x	14.6%	12.6%	2.1%
2006 2006	RRE Ventures IV, L.P.	12/19/2006	2,500,000	3,008,248	708,869	3,453,109 2,002,327	1.38x 1.49x	6.9% 10.2%	11.1% 11.0%	(4.1%)
2006	Coller International Partners V, L.P. MidOcean Partners III, L.P.	12/21/2006 12/21/2006	5,000,000 10,000,000	4,284,385 10,932,825	4,385,603 7,217,328	2,002,327 8,525,220	1.49x 1.44x	8.6%	9.7%	(0.8%)
2006	The Fourth Cinven Fund	1/22/2007	2,813,448	2,803,310		1,076,152	1.37x	6.7%	7.7%	(1.0%)
2006	Falconhead Capital Partners II, L.P.	3/23/2007	4,000,000	4,441,460		1,534,594	1.18x	3.8%	8.4%	(4.6%)
2006	Atlantic Equity Partners IV, L.P.	10/30/2007	3,768,757	3,133,038	- , , , , -	2,033,904	0.65x	(7.1%)	10.9%	(18.0%)
2006	Capital Partners Private Equity Income Fund, L.P.	11/29/2007	2,000,000	1,910,800	2,241,190	1,677,793	2.05x	20.6%	11.9%	8.7%
2007	Pegasus Partners IV, L.P.	1/29/2007	7,500,000	8,683,995		5,149,713	1.05x	1.2%	11.5%	(10.4%)
2007	Olympus Capital Asia III, L.P.	1/31/2007	5,000,000	5,521,574		5,051,145		7.7%	12.4%	(4.7%)
2007	FTVentures III, LP	3/1/2007	2,500,000	2,545,000	2,238,018	3,078,290	2.09x	17.3%	10.8%	6.5%
2007	Highland Consumer Fund I LP	3/16/2007	2,000,000	1,903,212	4 740 0	1,700,032	0.89x	(2.1%)	11.2%	(13.3%)
2007	Montreux Equity Partners IV, L.P.	3/27/2007	5,000,000	5,000,000		5,641,060	1.47x	9.1%	11.2%	(2.1%)
2007 2007	Gleacher Mezzanine Fund II, L.P. SCP Vitalife Partners II Fund	3/30/2007 4/13/2007	3,000,000 5,000,000	2,744,810 4,887,424		655,538 4,567,030	1.28x 0.93x	9.7%	12.2% 12.6%	(2.5%) (14.1%)
2007	SOL VICUME FAITHEISTI TUHU							(1.5%)		
2007	Constellation Venture Capital III, L.P.	5/22/2007	5,000,000	5,372,250	1,135,209	2,717,304	0.72x	(7.7%)	17.1%	(24.7%)



#### New York City Fire Department Pension Fund, Subchapter 2 Private Equity Portfolio As of June 30, 2015 (in USD)

Vintage Year	Investment	First Drawdown	Committed Capital	Contributed Capital	Distributed Capital	Market Value	Multiple	IRR	PME Benchmark <sup>1</sup>	PME Spread <sup>2</sup>
2007	Carlyle Partners V, L.P.	7/6/2007	10,000,000	10,065,780	9,618,339	7,398,243	1.69x	14.8%	11.4%	3.4%
2007	PCG Clean Energy & Technology Fund (East), LLC	7/6/2007	10,000,000	8,750,914	1,038,409	4,719,361	0.66x	(8.9%)	13.8%	(22.7%
2007	GSO Capital Opportunities Fund LP	7/16/2007	7,500,000	11,174,544	14,428,971	1,786,159	1.45x	18.3%	10.6%	7.7%
2007	New Mountain Partners III, L.P.	8/9/2007	10,000,000	9,710,451	4,090,866	10,122,752	1.46x	10.4%	13.7%	(3.3%
2007	Vista Equity Partners Fund III, L.P.	10/3/2007	7,500,000	7,961,229	16,952,865	3,252,710	2.54x	28.8%	10.2%	18.6%
2007	Trilantic Capital Partners IV L.P.	10/22/2007	7,236,332	7,244,739	8,349,375	3,699,495	1.66x	16.0%	11.4%	4.6%
2007	Pine Brook Capital Partners, L.P.	1/11/2008	7,500,000	7,540,265	4,093,454	5,655,783	1.29x	9.3%	12.4%	(3.1%
2007	Capital Point Partners, L.P.	10/17/2008	3,000,000	3,339,064	2,182,562	1,912,935	1.23x	5.5%	15.9%	(10.5%
2007	Post Capital Equity Partners II LP	2/10/2009	3,000,000	2,004,215	934,449	1,741,195	1.34x	8.3%	18.7%	(10.3%
2008 2008	Paladin III (NY City), L.P. Relativity Fund, L.P.	1/8/2008	7,500,000	8,208,054 1,612,064	4,130,878	6,034,009 532,961	1.24x	6.6%	12.2%	(5.6%
2008	Apollo Investment Fund VII, L.P.	1/8/2008 1/28/2008	3,000,000 25,000,000	28,461,003	345,053 41,921,379	9,592,366	0.54x 1.81x	(12.0%) 25.8%	10.3% 14.0%	(22.3% 11.9%
2008	NGN BioMed Opportunity II, L.P.	2/11/2008	5,000,000	4,512,955	986,553	2,670,977	0.81x	(5.2%)	16.6%	(21.7%
2008	Riverstone/Carlyle Global Energy & Power Fund IV, L.P.	3/3/2008	7,500,000	7,834,069	5,625,034	4,308,821	1.27x	8.3%	14.6%	(6.3%)
2008	Yucaipa American Alliance Fund II, LP	3/28/2008	15,000,000	20,015,346	11,939,866	17,286,926	1.46x	11.5%	13.2%	(1.7%)
2008	Levine Leichtman Capital Partners IV, L.P.	4/8/2008	5,000,000	4,988,219	5,661,581	2,535,095	1.64x	20.0%	15.5%	4.5%
2008	Lee Equity Partners Fund, L.P.	4/23/2008	7,500,000	8,079,053	3,623,414	6,739,232	1.28x	8.1%	15.1%	(7.0%)
2008	New York/Fairview Emerging Managers Fund, L.PTranche 2	5/28/2008	5,000,000	4,314,500	1,841,737	4,394,976	1.45x	14.4%	15.2%	(0.8%)
2008	Yucaipa Corporate Initiatives Fund II, LP	6/23/2008	4,676,976	4,528,260	1,299,840	2,586,993	0.86x	(3.9%)	11.6%	(15.5%)
2008	CVC European Equity Partners V, L.P.	7/21/2008	13,696,334	14,178,953	10,551,717	8,805,915	1.37x	11.1%	13.5%	(2.4%)
2008	GI Partners Fund III L.P.	7/29/2008	7,500,000	7,977,024	7,548,552	4,585,920	1.52x	15.0%	16.3%	(1.3%)
2008	Ares Corporate Opportunities Fund III, L.P.	7/30/2008	10,000,000	11,625,773	10,482,033	9,505,845	1.72x	22.0%	13.1%	8.9%
2008	GCM Grosvenor NYCFDPF Emerging Manager Co-Investment Fund, L.P.		990,607	1,238,948	1,519,547	397,994	1.55x	11.5%	12.0%	(0.6%)
2008	GCM Grosvenor NYCFDPF Emerging Manager Fund, L.P.	8/22/2008	8,979,798	8,693,097	3,769,112	7,016,102	1.24x	9.7%	15.3%	(5.6%)
2008	First Reserve Fund XII, L.P.	8/25/2008	5,000,000	5,175,672	2,186,051	2,650,954	0.93x	(1.9%)	17.3%	(19.2%)
2008	Landmark Equity Partners XIV, L.P.	9/19/2008	13,630,000	12,359,629	8,890,559	8,019,224	1.37x	15.4%	16.1%	(0.7%)
2008	Crestview Partners II, L.P.	10/1/2008	7,500,000	7,870,065	5,291,259	6,392,204	1.48x	14.3%	16.3%	(2.0%)
2008	Erasmus New York City Growth Fund IA	10/17/2008	1,208,990	1,208,990	417,624	387,445	0.67x	(7.3%)	16.9%	(24.2%)
2008	Milestone Partners III, L.P.	10/17/2008	3,000,000	3,056,854	888,355	2,062,020	0.97x	(0.8%)	16.1%	(17.0%)
2008	Euro Choice IV L.P.	10/22/2008 11/5/2008	6,465,678 10,000,000	5,452,241 11,742,801	850,649	5,432,483	1.15x	5.2% 20.3%	15.7%	(10.5%)
2008 2008	Avista Capital Partners II, L.P. Bridgepoint Europe IV	11/14/2008	6,687,415	6,113,546	11,181,507 3,623,101	11,185,056 4,846,242	1.90x 1.39x	10.4%	15.8% 17.0%	4.6% (6.5%)
2008	Carpenter Community BancFund-A, L.P.	11/17/2008	3,000,000	2,872,610	124,964	4,161,790	1.49x	8.1%	17.5%	(9.4%)
2008	Blue Wolf Capital Fund II, L.P.	11/19/2008	3,000,000	3,201,786	1,194,630	2,474,588	1.15x	5.5%	20.1%	(14.6%)
2008	Aisling Capital III, LP	11/20/2008	3,500,000	3,474,230	3,000,035	2,800,754	1.67x	25.1%	16.5%	8.6%
2008	Onex Partners III LP	12/10/2008	5,000,000	5,390,656	2,347,188	5,189,174	1.40x	12.7%	17.5%	(4.9%)
2009	NorthBound Emerging Manager Custom Fund LP	1/29/2009	5,000,000	3,981,508	2,432,843	3,949,923	1.60x	17.1%	16.4%	0.7%
2009	Welsh, Carson, Anderson & Stowe XI, L.P.	2/10/2009	7,500,000	7,094,658	4,334,415	6,536,810	1.53x	15.2%	16.0%	(0.9%)
2009	Scale Venture Partners III, LP	5/1/2009	5,000,000	4,893,728	4,067,934	7,139,936	2.29x	27.2%	15.3%	11.9%
2009	FS Equity Partners VI, L.P.	7/27/2009	12,500,000	12,778,940	7,289,420	17,297,500	1.92x	24.4%	17.2%	7.2%
2009	Lincolnshire Equity Fund IV, L.P.	8/5/2009	2,500,000	2,232,640	876,260	1,690,900	1.15x	6.0%	15.8%	(9.9%)
2009	Lexington Capital Partners VII, L.P.	12/3/2009	10,000,000	8,103,168	5,948,506	6,067,898	1.48x	17.2%	16.1%	1.0%
2010	Snow Phipps II, L.P.	1/8/2010	7,500,000	5,841,075	3,321,542	5,012,669	1.43x	16.5%	15.6%	0.9%
2010	Trident V, L.P.	4/29/2010	15,000,000	15,415,411	2,326,739	16,117,710	1.20x	8.3%	14.3%	(6.0%)
2010	Comvest Investment Partners IV, L.P.	10/21/2010	20,000,000	18,069,512	15,981,792	14,908,676	1.71x	40.2%	17.2%	23.0%
2011	Blackstone Capital Partners VI, L.P.	1/24/2011	10,000,000	7,129,003	1,339,508	7,469,003	1.24x	13.5%	15.4%	(1.9%)
2011	Ampersand 2011	3/11/2011	5,000,000	4,825,000	282,185	7,679,093	1.65x	19.6%	15.7%	3.9%
2011	BDCM Opportunity Fund III, L.P.	4/8/2011	10,000,000	12,408,624	4,606,283	10,043,626	1.18x	12.0%	15.1%	(3.2%)
2011	AXA Secondary Fund V B L.P.  Wellenring Capital Partners V J. P.	6/16/2011	40,000,000	29,108,670	14,421,979	30,246,748	1.53x	21.3%	17.7%	3.6%
2011 2011	Wellspring Capital Partners V, L.P. EQT VI, L.P.	7/1/2011	7,500,000	4,485,256	569,304	4,793,901	1.20x	9.4%	16.1%	(6.6%)
2011	Pegasus Partners V, L.P.	8/1/2011 8/16/2011	17,676,456 6,236,975	14,574,412 4,198,931	366,111 1,110,265	14,912,308 4,170,703	1.05x 1.26x	2.7% 9.4%	15.1% 18.1%	(12.4%)
2011	BC European Capital IX	9/19/2011	22,003,851	15,704,021	3,223,224	13,999,011	1.26x 1.10x	4.9%	17.1%	(12.2%)
2011	American Securities Partners VI, L.P.	11/18/2011	20,000,000	18,464,547	5,732,221	18,930,853	1.10x 1.34x	22.2%	17.1%	6.5%
2011	Vista Equity Partners Fund IV, L.P.	11/30/2011	30,000,000	27,704,087	12,181,760	30,297,350	1.54x	21.4%	16.3%	5.1%
2012	Warburg Pincus Private Equity XI, L.P.	5/24/2012	35,000,000	25,387,527	5,385,555	27,037,591	1.28x	19.1%	15.1%	4.0%
2012	Summit Partners Growth Equity Fund VIII-A, L.P.	6/14/2012	30,000,000	20,072,255	3,334,891	20,746,838	1.20x	15.3%	13.5%	1.8%
2012	Trilantic Capital Partners V L.P.	9/20/2012	10,000,000	3,250,729	39,734	2,935,613	0.92x	(6.0%)	13.4%	(19.3%)
2012	Palladium Equity Partners IV, L.P.	10/10/2012	10,000,000	3,679,793	217,573	4,023,609	1.15x	10.3%	17.9%	(7.7%)
2012	Ares Corporate Opportunities Fund IV, L.P.	11/5/2012	20,000,000	13,300,612	1,272,452	13,662,480	1.12x	11.4%	11.6%	(0.2%)
2012	Green Equity Investors VI, L.P.	11/30/2012	25,000,000	14,426,871	310,239	16,412,865	1.16x	12.6%	13.1%	(0.5%)
2012	Platinum Equity Capital Partners III, L.P.	1/14/2013	25,000,000	11,360,753	7,745,410	10,550,279	1.61x	57.8%	16.2%	41.6%
2012	NYCFDPF - 2012 Emerging Manager Program <sup>3</sup>	2/7/2013	25,000,000	8,857,106	582,905	8,438,837	1.02x	NM	NM	N/A
2013	Carlyle Partners VI, L.P.	7/3/2013	20,000,000	6,792,248	191,415	6,421,398	0.97x	NM	NM	N/A
2013	Carlyle Partners VI, L.P. (Side Car)	9/23/2014	2,200,000	485,899	-	449,217	0.92x	NM	NM	N/A
2013	Landmark Equity Partners XV, L.P.	10/30/2013	26,000,000	6,030,093	1,410,253	6,065,989	1.24x	NM	NM	N/A
2013	Landmark - NYC Fund I, L.P.	12/24/2013	9,000,000	3,773,738	-	4,253,723	1.13x	NM	NM	N/A
2013	Apollo Investment Fund VIII, L.P.	12/11/2013	40,000,000	8,562,129	58,173	8,301,882	0.98x	NM	NM	N/A
2013	CVC Capital Partners VI, L.P.	2/18/2014	34,828,862	3,263,819	236,858	2,088,999	0.71x	NM	NM	N/A



# New York City Fire Department Pension Fund, Subchapter 2 Private Equity Portfolio As of June 30, 2015 (in USD)

Vintage Year	Investment	First Drawdown	Committed Capital	Contributed Capital	Distributed Capital	Market Value	Multiple	IRR	PME Benchmark <sup>1</sup>	PME Spread <sup>2</sup>
2013	Crestview Partners III, L.P.	3/3/2015	24,000,000	3,256,257	66,068	2,934,693	0.92x	NM	NM	N/A
2013	Crestview Partners III (Co-Investment B), L.P.	N/A	8,000,000	-	-	-	-	N/A	N/A	N/A
2014	Olympus Growth Fund VI, L.P.	1/24/2014	15,000,000	1,846,768	449,512	1,832,865	1.24x	NM	NM	N/A
2014	ASF VI B L.P.	5/9/2014	30,000,000	10,109,792	173,540	12,583,975	1.26x	NM	NM	N/A
2014	ASF VI B NYC Co-Invest L.P.	5/9/2014	10,000,000	5,840,326	-	7,213,700	1.24x	NM	NM	N/A
2014	Vista Equity Partners Fund V, L.P.	9/8/2014	40,000,000	18,238,059	3,118	18,104,942	0.99x	NM	NM	N/A
2014	Lexington Capital Partners VIII, L.P.	1/8/2015	40,000,000	2,831,667	6,983	4,665,268	1.65x	NM	NM	N/A
2014	Centerbridge Capital Partners III, L.P.	5/21/2015	4,200,000	266,915	-	273,048	1.02x	NM	NM	N/A
2015	Siris Partners III, L.P.	5/4/2015	5,500,000	34,600	-	(15,625)	(0.45x)	NM	NM	N/A
2015	Welsh, Carson, Anderson & Stowe XII, L.P.	8/26/2015	14,000,000	-	-	(125,203)	-	NM	NM	N/A
2015	American Securities Partners VII, L.P.	N/A	14,000,000	-	-	-	-	N/A	N/A	N/A
2015	Bridgepoint Europe V L.P.	N/A	11,139,000	-	-	(45,583)	-	N/A	N/A	N/A
2015	Bridgepoint Europe V Co-Invest	N/A	3,341,700	-	-	-	-	N/A	N/A	N/A
Total Port	folio <sup>4</sup>		\$ 1,544,459,554	\$ 1,215,908,668	\$ 929,590,379	\$ 761,340,841	1.39x	11.0%	10.1%	0.9%

<sup>1</sup> Russell 3000 PMF+

Note: IRRs presented are interim estimates and may not be indicative of the ultimate performance of fund investments due to a number of factors, such as the lack of industry valuation standards and the differences in the investment pace and strategy of various funds. Until a fund is liquidated, typically over 10 to 12 years, the IRR is only an interim estimated return. The IRR calculated in early years of a fund is not meaningful given the J-curve effect. The actual IRR performance of any fund is not known until all capital contributed and earnings have been distributed to the investor. The IRRs contained in this report are calculated by StepStone Group IP ("StepStone"), a consultant to the New York City Fire Department Pension Fund, Subchapter 2, based on information provided by the general partners (e.g. cash flows and valuations). The IRR calculations and other information contained in this report have not been reviewed or confirmed by the general partners. The result of the IRR calculation may differ from that generated by the general partner or other limited partners. Differences in IRR calculations can be affected by cash-flow timing, the accounting treatment of carried interest, fund management fees, advisory fees, organizational fees, other fund expenses, sale of distributed stock, and valuations.

<sup>&</sup>lt;sup>2</sup> PME Spread is calculated as IRR minus PME Benchmark.

<sup>3</sup> NYCFDPF - 2012 Emerging Manager Program total commitment amount includes the full amount allocated to the Program, of which \$23.7 million has been committed as of November 20, 2015.

<sup>&</sup>lt;sup>4</sup>Total Portfolio includes liquidated investments.



# New York City Fire Department Pension Fund, Subchapter 2 Subsequent Commitments As of June 30, 2015 (in USD)

Vintage Year	Investment	First Drawdown	Committed Capital	Contributed Capital	Distrib Capi		Market Value	Mu	ltiple	IRR	PME Benchmark <sup>1</sup>	PME Spread <sup>2</sup>
Commitm	ents Closed Subsequent to as of Date											
2015	EQT VII, L.P.	N/A	\$ 27,619,750		-	-		-	N/A	N/A	N/A	N/A
2015	Warburg Pincus Private Equity XII, L.P.	N/A	36,000,000		-	-		-	N/A	N/A	N/A	N/A
Total Com	mitments Closed Subsequent to as of Date		\$ 63,619,750	\$	- \$	- \$		-	N/A	N/A	N/A	N/A

Note: IRRs presented are interim estimates and may not be indicative of the ultimate performance of fund investments due to a number of factors, such as the lack of industry valuation standards and the differences in the investment pace and strategy of various funds. Until a fund is liquidated, typically over 10 to 12 years, the IRR is only an interim estimated return. The IRR calculated in early years of a fund is not meaningful given the 1-curve effect. The actual IRR performance of any fund is not known until all capital contributed and earnings have been distributed to the investor. The IRRs contained in this report are calculated by StepStone Group IP ("StepStone"), a consultant to the New York City Fire Department Pension Fund, Subchapter 2, based on information provided by the general partners (e.g. cash flows and valuations). The IRR calculations and other information contained in this report have not been reviewed or confirmed by the general partners. The result of the IRR calculation may differ from that generated by the general partners or other limited partners. Differences in IRR calculations can be affected by cash-flow timing, the accounting treatment of carried interest, fund management fees, advisory fees, organizational fees, other fund expenses, sale of distributed stock, and valuations.

Real Assets Quarterly Report

Executive Summary: Second Quarter 2015 Performance Measurement Report
Real Estate

#### **Portfolio Profile**

**Total Plan Assets** 

The New York City Fire Department Pension Fund has allocated 5.0% (+/- 2%) of the total plan to Real Assets. Real Estate investments are categorized under Real Assets. The Real Estate Portfolio's objective is to generate a total net return that exceeds the NFI-ODCE +100 bps total net return measured over full market cycles.

#### Portfolio Statistics (June 30, 2015)

Target Real Assets Allocation (%)	5%
Target Real Assets Allocation (\$)	\$546.3 million
Total Real Estate Market Value	\$438.3 million
Real Estate Unfunded Commitments	\$129.1 million
Total Real Estate Exposure	\$567.4 million
Number of Investments	45

#### Net Returns (as of June 30, 2015)

Number of Managers

2Q15 Time-Weighted Net Return:	3.8%
1 Year Time Weighted Net Return:	14.3%
3 Year Time Weighted Net Return:	14.9%

Inception-to-Date (ITD) Time-Weighted: 6.79

ITD Net IRR: 7.0%

ITD Net Equity Multiple: 1.33

#### **Investment Guidelines**

Style Sector:	Target	•40-60% Core/	Core Plus
		•40-60% Non-0	Core

Benchmark

Region Diversification
Investment Diversification
Manager Diversification
Leverage

NFI-ODCE Index +100 bps net over full market cycles
Maximum 25% Int' I
Limit 15% to a single investment
Limit 15% to a single manager
65%

### First Quarter Investment Activity

During the Quarter, the Board made a \$11.0 million commitment to an emerging manager separate account and a \$2.2 million commitment to an emerging manager closed-end fund.

### **OVERVIEW**

\$10.9 billion

33

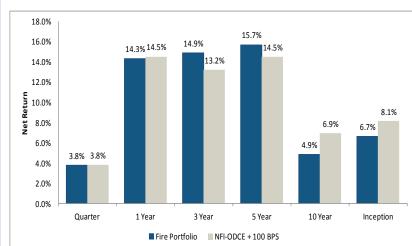
Real estate markets are building momentum as leasing activity has been matched by investment activity for the first time in the current cycle. Investment activity remains high, and does not show signs of slowing. Investment volumes continue to expand as first half volumes rose to \$177 billion which is 9% above the first half of 2014. Commercial real estate investments in Europe decreased 2% from the first quarter to €55.8 billion for the Second Quarter. Finland, Norway, Spain and Portugal had investment activity double in comparison to second quarter of 2014. Investment activity was up 62% in Germany with €12 billion in activity, representing the largest European market. The Asia-Pacific market has seen significant growth in leasing activity with 41% growth year-on-year. Transactional volumes in China were up 54% year-on-year during the Second Quarter. Sentiment for the office sector has been improving in Tier 1 and top-end Tier 2 cities. Borrowing costs are expected to lower due to lower interest rates and bank reserve requirement ratios.

Direct Commercial Real Estate Investment - Regional Volumes, 2014-2015

			% Change		% Change			% Change
\$US			Q1 15 -		Q2 14 -			YTD 2014 -
Billions	Q1 15	Q2 15	Q2 2015	Q2 14	Q2 15	YTD 2014	YTD 2015	YTD 2015
Americas	73	81	11%	67	20%	129	153	19%
EMEA	59	65	11%	63	3%	120	124	3%
Asia Pacific	25	31	24%	31	-2%	55	56	2%
Total	156	177	13%	162	9%	304	333	9%

Source: Jones Lang LaSalle, July 2015

The New York City Fire Department Pension Fund ("Fire") Real Estate Portfolio is, and has been, well positioned to take advantage of conditions in the real estate marketplace. Post economic downturn, in the period reflected in the rolling five-year returns, Fire performance exceeds benchmark by 124 basis points. At the end of the Second Quarter 2015, the Portfolio achieved a total gross return of 4.3% which was comprised of 1.6% income and 2.7% appreciation. The net return for the Quarter was 3.8%. A detailed analysis of the Portfolio's real estate performance is found later in this Executive Summary.



Executive Summary: Second Quarter 2015 Performance Measurement Report
Real Estate

### FUNDING AND COMPOSITION

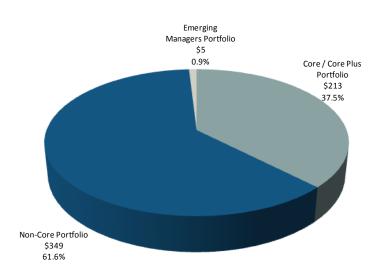
At the end of the Second Quarter, the Portfolio was funded at \$438.3 million, or 4.0% of total plan assets. A total of \$129.1 million in unfunded commitments are still outstanding. New commitment activity has accelerated over the past several months and the trend will continue throughout 2015.

New contributions for the Quarter totaled \$13.3 million, offset by just over \$26.2 million in distributions and withdrawals. Distributions were weighted to the non-core sector.

Shown in the pie chart to the right is the current risk sector exposure calculated by Market Value + Unfunded Commitments. The Core/ Core Plus component accounts for 37.5% of the Portfolio exposure during the Quarter. The Non-Core component accounts for 61.6% of the Portfolio exposure. The Emerging Manager component accounts for 0.9% of the Portfolio exposure.

A more detailed break-down of the Portfolio Composition is shown in the table below. Attached as Exhibit A is a matrix which demonstrates compliance with various Investment Policy Statement guidelines.

### **Real Estate Exposure**



New York City Fire D	Department Pension Fund							
Total Plan Assets	6/30/2015	10,927						
Real Assets Allocation (%)		5.0						
Real Assets Allocation (\$)		546						
Style Sector Statistics								
Funded (Market Value) Core / Core Plus Portfolio		\$205						
Funded (Market Value) Non-Core Portfolio		\$230						
Funded (Market Value) Emerging Managers Portfolio		\$4						
Unfunded Core / Core Plus Portfolio		\$8						
Unfunded Non-Core Portfolio		\$120						
Unfunded Emerging Managers Portfolio		\$1						
Funded (Market Value	e) and Committed Statistics							
Core / Core Plus Portfolio		37.5%						
Non-Core Portfolio		61.6%						
Emerging Managers Portfolio		0.9%						
\$ Committed		567						
% Committed on Real Asset Allocation		103.9%						
% Committed on Total Plan Assets		5.2%						
Funded (Mark	et Value) Statistics							
% Funded (Market Value) of Total Plan Assets		4.0%						
% Funded (Market Value) of Total Real Assets Allocation		80.3%						

Executive Summary: Second Quarter 2015 Performance Measurement Report

Real Estate

### **PERFORMANCE**

During the Quarter under review, the Fire Real Estate Portfolio produced a 4.3% total gross return. The total net return for the Quarter was 3.8%. On a rolling one-year basis the total gross return of 17.7% was recorded. On a net basis the total return was 14.3%. On a gross basis the Fire Portfolio exceeds the NFI-ODCE in all relevant time periods. The benchmark return contemplates a 100 bps premium over the ODCE net return over full market cycles. This benchmark is exceeded over the three-year and five-year time periods. The various components of the Portfolio returns are depicted in the chart below.

#### Core/Core Plus

As of June 30, 2015 the market value of the Core/ Core Plus Portfolio was \$204.5 million, or 46.7% on an invested basis. On a funded and committed basis, the Core/ Core Plus Portfolio totaled \$212.7 million, or 37.5% of the total Portfolio. The Core/ Core plus Portfolio generated a 3.8% total gross return for the Quarter comprised of 1.4% in income and 2.4% in appreciation. The total net return for the Quarter was 3.6%.

The most significant contribution to the Quarterly return in the Core/Core Plus sector was Colony Realty Partners II which added 0.11% to the overall performance of the Core/Core Plus sector. The largest detractor from the Core/Core Plus Portfolio was UBS Trumbull Property Fund, which took away (0.22)% from the total net return.

The Core/Core Plus Portfolio achieved a 12.1% net return over the three-year period ending June 30, 2015. Of the 13 Core/Core Plus Funds, PRISA II was the largest contributor, adding 0.18% to the overall performance of the Portfolio. UBS Trumbull Property Fund was the largest detractor, taking away (0.60)% from the overall performance of the Core/Core Plus Portfolio, however, with its low leverage target, UBS historically outperforms during down cycles.

#### Non-Core

As of June 30, 2015 the market value of the Non-Core Portfolio was \$229.6 million, or 52.4% on an invested basis. On a funded and committed basis, the Non-Core Portfolio totaled \$349.4 million, or 61.6% of the total Portfolio. The Non-Core Portfolio generated a 4.7% total gross return for the Quarter comprised of 1.7% in income and 3.0% in appreciation. The total net return for the Quarter was 4.0%.

Of the 30 Funds contributing to the Quarterly return of the Non-Core Portfolio, Divco West Fund IV was the largest contributor, adding 0.58%. Blackstone Real Estate Partners VI was the largest detractor for the Quarter, taking away (0.34)% from the overall performance of the Non-Core Portfolio.

The Non-Core Portfolio generated a three-year net return of 17.3%. Of the 30 Non-Core Funds that contributed to the three-year performance of the Portfolio, Divco West Fund III was the largest contributor, adding 0.93%. The largest detractor among these Funds was The City Investment Fund I, which took away (1.18)% from overall Non-Core performance.

#### **Emerging Managers**

As of June 30, 2015 the market value of the Emerging Managers Portfolio was \$4.1 million, or 0.9% on an invested basis. On a funded and committed basis, the Emerging Managers Portfolio totaled \$5.4 million, or 0.9% of the total Portfolio. The Emerging Managers Portfolio generated a 1.1% total gross return for the Quarter comprised of 2.7% in income and (1.7)% in appreciation. The total net return for the Quarter was 0.7%. The Emerging Managers Portfolio has underperformed for a number of reasons including the fact that performance has been adversely impacted by virtue of the vintage years of these funds.



Executive Summary: Second Quarter 2015 Performance Measurement Report
Real Estate

### **PERFORMANCE**

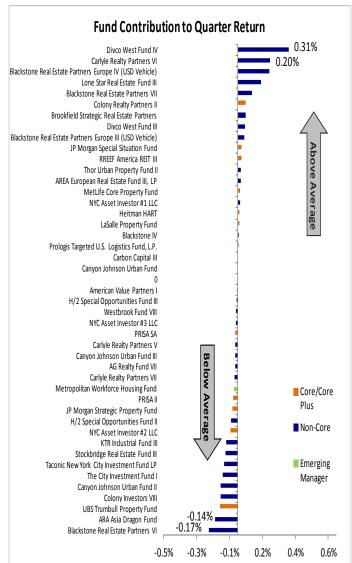
#### Portfolio Performance

At the end of the Second Quarter 2015, the Portfolio had a cumulative market value of \$438.3 million. Total market value plus unfunded commitments was \$567.4 million, or 103.9% of the real estate allocation. During the Quarter, the Portfolio achieved a total gross return of 4.3% which was comprised of 1.6% income and 2.7% appreciation. The Portfolio achieved a total net return of 3.8%. Since inception, the Portfolio has a net IRR of 7.0% and an equity multiple of 1.3x as of June 30, 2015. Note, attached as Exhibit B are performance metrics relating to each investment within the Portfolio.

The Quarterly return was driven Divco West Fund IV, which contributed 0.31% to the overall performance. The primary laggards in the Portfolio were ARA Asia Dragon and Blackstone Real Estate Partners VI detracting (0.14)% and (0.17)%, respectively. Brief reviews of Funds making positive contributions to performance during the Quarter are found below. Note, that attached as Exhibit C are charts relating to fund contributions to returns during different relevant periods.

DivcoWest Fund IV (DWF IV). During the Quarter, the Fund recorded a total gross return of 10.7% comprised of 1.3% in income and 9.3% in appreciation. The net return after fees was 8.4%. As of June 30, 2015, the Fund has 17 unrealized investments with an acquisition cost of \$2.0 billion. Financing was closed on two properties during the Second Quarter. \$85.5 million was secured for an office property located in Playa Vista, California and \$90.0 million for an office property located in San Mateo, California. \$120.0 million was distributed to the partners in June 2015. Unfunded commitments totaled \$157.4 million as of the end of the Second Quarter.

Blackstone Real Estate Partners Europe IV (BREP Europe IV). BREP Europe IV had a total gross return of 13.5% comprised of 1.0% in income and 12.5% of appreciation. The net return after fees was 11.2%. Valuation for the portfolio increased by €267 million during the quarter or approximately 7.2%. €1.4 billion of equity was invested across 17 transactions during the Second Quarter. Distributions for the Quarter totaled €46 million. An Italian real estate fund that sold three assets during the first quarter, generated proceeds that added €5.2 million of distributions for the current Quarter. 26 logistic assets were acquired across Germany, France, the Netherlands and Portugal during the Second Quarter as part of the larger European Logistics Platform.

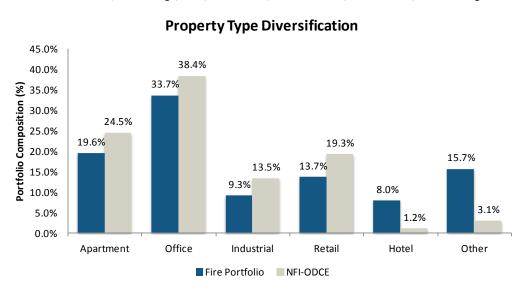


Carlyle Realty Partners VI (Carlyle VI). Carlyle VI had a total gross return of 9.4% comprised of 8.0% in income and 1.4% in appreciation. The net return after fees was 9.3%. As of June 30, 2015, Carlyle VI has closed on 128 investments requiring approximately \$2.1 billion of Fund equity. As of Quarter end the Fund has fully exited 54 investments and partially exited three investments. These sales have generated a gross IRR of 54% and an equity multiple of 2.0x to date. There were various dispositions throughout the Quarter. A development site, was sold during the Quarter for \$59 million. The multi-family asset located in Chicago was sold in June 2015 for \$74.5 million generating gross profits of \$18.1 million, an 86% gross IRR and a 2.6x equity multiple for the Fund.

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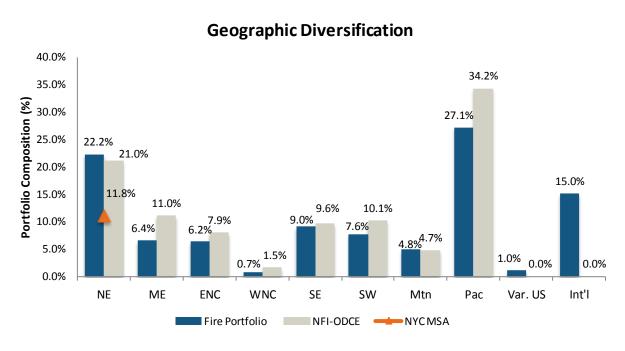
### PROPERTY TYPE DIVERSIFICATION

The diversification of the current Portfolio by property type is shown below and compared to the diversification of the NCREIF-ODCE at the end of the Quarter. Relative to the ODCE, the Portfolio is still underweight to all property sectors (excluding hotels) due to its allocation to other property types such as For Sale Residential, Self Storage, Land, Health Care, Medical Office, Data Centers, Senior Living and Student Housing.



### GEOGRAPHIC DIVERSIFICATION

The diversification of the current funded Portfolio by geographic region is shown below and compared to the diversification of the NFI-ODCE at the end of the Quarter. The ODCE is a US-only index. The domestic portion of the Portfolio is well diversified relative to the ODCE. The 15.0% international exposure is appropriate for the risk and return profile of Fire and consistent with our long-term target.



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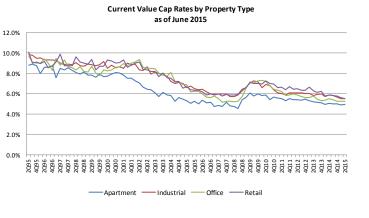
### **MARKET UPDATE**

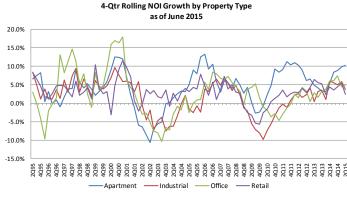
#### General

- As of 2Q15, real GDP exceeded the Commerce department's initial expectations by 140 bps, with a growth rate of 3.7%, 310 bps above 1Q15. After rebounding from temporary winter doldrums, the economic growth was further stimulated by rising consumer and government spending, business investments, private inventory investments, and positive net export.
- As of 2Q15, consumer spending representing two thirds of the GDP, grew by 3.1%, 130 bps above 1Q15 due to a boost in purchasing power, characterized by a 1.3% increase in disposable income, as well as strong fundamentals in the job market. In addition, household wealth was positively influenced by weak energy prices, a strong U.S. Dollar as well as the ongoing housing recovery.
- •During the quarter, business investment was the principal catalyst of the GDP's upward revision rising 3.2%, or 380 bps above estimates. This rise was due to higher investment in construction, research and development, equipment, and inventories. While spending on intellectual property rose by 8.6%, the highest since 4Q07, inventory grew to \$121.1 billion, or \$11 billion above estimates. Note, growth in business investment was partially offset by low energy prices and a strong U.S. Dollar due to reduced drilling activities and expensive exports, respectively.
- In 2Q15, CMBS loss severity increased to 41.6%, or 17.1% above 1Q15 and only 50 bps below the total weighted average loss severity between 1Q00 and 2Q15. Although the CMBS market remains strong with issuance up to 8.0%, it has become more volatile due to (i) excess deal supply, (ii) low energy prices, (iii) an expected Fed tightening before year-end 2015, (iv) the Greek debt crisis and (v) the devaluation of the Chinese Yuan.

#### Commercial Real Estate

- •During 1H15, the U.S. commercial real estate sector remained the strongest on the global scale, with \$232 billion of year-to-date transaction volumes, representing an annual investment sale growth of 46.4%. Consistently, current macroeconomic and financial indicators suggest ample room for continued potential expansion, with an anticipated full year growth of 20%.
- •During 1H15, the office sector was the busiest market in the U.S., representing 31.6% of total transaction activities.
- As of 1H15, transaction cap rates from all traditional property sectors continued to decline. Year-to-date, industrial recorded the sharpest cap rate compression (-25 bps), with a primary cap rate of 5.2%. Multifamily recorded the lowest primary cap rate (4.4%) at mid year, with core apartment trading at 30 bps point above 2007 peak level.
- •As of 1H15, foreign capital represented 14.8% of total transaction activity, exceeding 2014 year-end figures and nearing 2007 peak levels, with Singapore and China representing two of the five most active investors since 2014. While the office sector has long been representing more than half of total foreign acquisitions on an annual basis, foreign investors have progressively grown interest in large-scale industrial multimarket portfolios in primary locations as well as iconic hotel investments.





Executive Summary: Second Quarter 2015 Performance Measurement Report
Real Estate

### **EXHIBIT A: COMPLIANCE MATRIX**

Category	Requirement	Portfolio Status				
Benchmark	NFI-ODCE (net) +100 bps over full market cycles (10-year)	Portfolio returns underperform the benchmark.				
	Core/Core Plus (minimum of 40%)					
	Non Core (minimum of 40%)	The portfolio is funded (market value) and committed at 103.9% of real asset				
Portfolio Composition	Non Core Emerging	allocation with a portfolio composition o 37.5% core, 61.6% non-core, and 0.9% emerging.				
Real Asset Allocation	Target of 5.0%	Funded (market value) and committed dollars place the portfolio at 5.2% of toto				
Real Asset Allocation	Currently Funded at 4.1%	plan assets.				
Property Type Diversification	Up to 40% Multifamily Up to 35% Industrial Up to 45% Office Up to 35% Retail Up to 25% Hotel Up to 20% Other	All property type locations are in compliance.				
Geographic Diversification	Diversified geographically Max 25% Ex-US	All geographic type locations are in compliance				
LTV	65%	Portfolio is in compliance (42.2 %).				
Manager Exposure	15% of real estate allocation	Manager exposure is in compliance based on market value.				

Executive Summary: Second Quarter 2015 Performance Measurement Report Real Estate

### **EXHIBIT B: SECOND QUARTER 2015 FOIL**



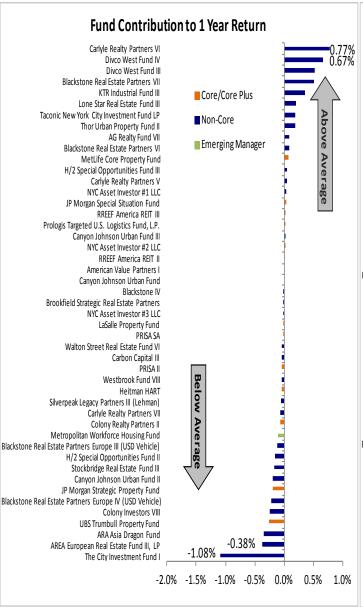
### New York City Fire Department Pension Fund

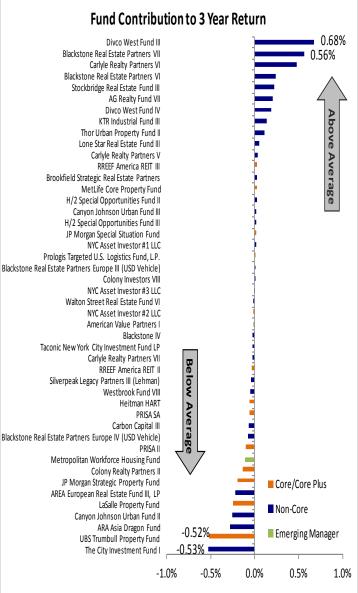
Vintage							Equity	
Year	Fund Name	First Draw Down	Capital Committed	Contributions	Distributions	Market Value	Multiple	Net IRR
2007	Colony Realty Partners II	12/20/2006	5,000,000	5,355,052	-166,526	1,972,400	0.4	-11.5
2007	Heitman HART	3/29/2007	9,000,000	11,870,219	-2,870,219	14,836,449	1.5	7.7
2007	JP Morgan Special Situation Property Fund	1/2/2007	5,000,000	5,617,132	-1,225,784	5,639,151	1.2	2.8
2007	JP Morgan Strategic Property Fund	12/5/2006	22,000,000	23,510,298	0	37,856,788	1.6	8.7
2010	LaSalle Property Fund	7/1/2010	30,000,000	30,000,000	-4,467,214	37,921,473	1.4	12.6
2014	MetLife Core Property Fund	7/1/2014	15,000,000	12,500,000	-366,000	13,276,667	1.1	20.1
2013	NYC Asset Investor #2 LLC	7/9/2013	9,000,000	5,498,451	-983,662	5,165,516	1.1	12.1
2007	PRISA II	6/30/2007	20,228,233	21,304,145	-3,198,923	24,426,834	1.3	4.1
2006	PRISA SA	9/29/2006	7,000,000	7,470,979	-1,475,792	8,418,192	1.3	3.5
2006	Prologis Targeted U.S. Logistics Fund	10/1/2006	5,000,000	6,212,506	-1,250,320	5,528,554	1.1	1.2
2006	RREEF America REIT II	10/1/2006	7,000,000	9,178,399	-3,611,823	8,463,004	1.3	4.2
2007	RREEF America REIT III - 1410	10/1/2007	5,000,000	5,000,000	-2,057,629	880,130	0.6	-7.3
2006	UBS Trumbull Property Fund	9/28/2006	27,000,000	33,632,200	-5,287,974	40,140,576	1.4	7.3
	Core / Core Plus Portfolio		166,228,233	177,149,380	-26,961,865	204,525,735	1.3	5.5
2008	AG Realty Fund VII	5/20/2008	15,000,000	14,100,000	-16,988,211	4,791,454	1.5	14.1
2008	ARA Asia Dragon Fund	7/9/2008	10,000,000	9,284,000	-9,757,344	2,185,908	1.3	7.3
2008	AREA European Real Estate Fund III, LP	5/6/2008	15,000,000	15,243,750	-13,327,500	4,977,874	1.2	5.0
2004	Blackstone Fund IV	5/10/2004	5,000,000	6,406,782	-7,002,207	2,310,513	1.5	11.9
2010	Blackstone Real Estate Partners Europe III (USD V	10/24/2008	5,000,000	5,073,758	-2,735,482	4,394,732	1.4	14.5
2014	Blackstone Real Estate Partners Europe IV (USD V		26,000,000	13,790,415	-1,302,154	13,169,140	1.0	6.3
2007	Blackstone Real Estate Partners VI	9/27/2007	10,000,000	11,033,040	-13,207,400	8,033,799	1.9	14.1
2012	Blackstone Real Estate Partners VII	3/31/2012	30,000,000	33,305,372	-17,060,622	31,224,763	1.4	26.4
2012	Brookfield Strategic Real Estate Partners	9/20/2012	15,000,000	15,101,054	-3,383,368	14,904,400	1.2	16.9
2003	Canyon Johnson Urban Fund	12/6/2002	10,000,000	9,060,242	-10,582,954	0	1.2	10.2
2005	Canyon Johnson Urban Fund II	5/11/2005	10,000,000	8,988,710	-1,931,982	2,428,123	0.5	-9.8
2010	Canyon Johnson Urban Fund III	3/29/2010	5,000,000	4,931,163	-3,340,794	3,264,720	1.3	12.1
2009	Carbon Capital III	7/2/2009	10,000,000	10,378,522	-12,722,879	0	1.2	8.5
2007	Carlyle Realty Partners V	8/27/2007	5,000,000	6,217,710	-6,371,954	1,930,215	1.3	8.2
2011	Carlyle Realty Partners VI	9/14/2011	20,000,000	17,613,583	-12,155,939	14,916,380	1.5	29.3
2014	Carlyle Realty Partners VII	6/30/2014	15,000,000	2,229,059	0	2,015,789	0.9	-26.1
2007	Colony Investors VIII	9/18/2007	20,000,000	21,249,679	-5,553,373	5,373,650	0.5	-11.1
2012	Divco West Fund III	12/30/2011	30,000,000	29,429,127	-36,937,155	12,319,399	1.7	26.8
2014	Divco West Fund IV	1/15/2014	30,000,000	24,576,734	-3,688,144	25,806,909	1.2	24.6
2011	H/2 Special Opportunities Fund II	1/31/2011	10,000,000	10,000,001	-5,480,243	8,001,815	1.3	17.6
2015	H/2 Special Opportunities Fund III	12/29/2014	15,000,000	2,921,470	0	3,222,125	1.1	50.1
2013	KTR Industrial Fund III	6/28/2013	10,000,000	4,369,869	-6,765,117	150,839	1.6	40.8
2014	Lone Star Real Estate Fund III	5/20/2014	25,000,000	14,179,855	-1,967,470	14,124,237	1.1	20.4
2013	NYC Asset Investor #1 LLC	6/25/2013	5,000,000	3,833,767	-537,193	3,981,920	1.2	20.5
2013	NYC Asset Investor #3 LLC	9/20/2013	6,000,000	1,174,181	-23,481	1,199,795	1.0	4.5
2008	Silverpeak Legacy Partners III (Lehman)	5/28/2008	5,000,000	2,216,844	-192,072	710,612	0.4	-13.4
2008	Stockbridge Real Estate Fund III	9/9/2008	13,500,000	13,142,674	0	19,912,300	1.5	9.2
2012	Taconic New York City Investment Fund LP	7/5/2012	20,000,000	8,272,728	-181,818	11,184,011	1.4	13.8
2004	The City Investment Fund I	3/16/2004	35,000,000	34,515,181	-32,693,962	2,316,737	1.0	0.3
2009	Thor Urban Property Fund II	10/30/2008	5,000,000	6,469,583	-3,208,793	5,474,127	1.3	10.9
2009	Walton Street Real Estate Fund VI	4/27/2009	5,000,000	4,432,393	-2,912,617	3,648,296	1.5	10.7
2010	Westbrook Real Estate Fund VIII	12/28/2009	5,000,000	5,909,866	-6,063,456	1,643,641	1.3	13.1
2008	American Value Partners Fund I	10/18/2007	5,000,000	3,773,989	-1,990,563	1,840,450	1.0	0.3
2007	Metropolitan Workforce Housing Fund	7/13/2007	3,500,000	3,503,257	-1,499,271	2,301,539	1.1	2.0
	Non Core and Emerging Manager Portfolio	, -,	454,000,000	376,728,357	-241,565,518	233,760,211	1.3	8.1
	New York City Fire Department Pension Fund		620,228,233	553,877,737	-268,527,383	438,285,946	1.3	7.0
			,,_		, ,	,,-		

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 June 30, 2015.

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Real Estate

### **EXHIBIT C: ATTRIBUTION**







# **Infrastructure Monitoring Report**

For the period ended June 30, 2015

Report Prepared For:

New York City Fire Department Pension Fund, Subchapter 2





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# I. Executive Summary

The New York City Fire Department Pension Fund, Subchapter 2 ("NYCFDPF") established the Infrastructure Program (the "Program") in December of 2012 on behalf of its beneficiaries to participate in attractive long-term investment opportunities and to provide diversification to its overall pension investment portfolio.

The inclusion of infrastructure in the NYCFDPF pension portfolio allows for global investments in facilities or assets that provide core essential services critical to the operation and development of economies. Typically infrastructure investments have high barriers to entry due to significant capital expenditure requirements, exclusive long term contracts or regulatory requirements. Infrastructure investments are comprised of long useful-life assets with high tangible value and relatively low value erosion over time.

The Program seeks to invest in opportunities in a variety of infrastructure sectors, including but not limited to, transportation, energy, power, utilities, water, wastewater, communications and social infrastructure.

StepStone Group LP ("StepStone") was engaged by NYCFDPF on October 20, 2014 to provide infrastructure advisory services for prospective investment opportunities and monitoring and reporting services for existing and new investments.

Since inception through June 30, 2015, the Program has committed US\$47.0 million to four partnership investments (the "Portfolio"). This quarterly monitoring report covers the performance of the Portfolio as of June 30, 2015 as well as significant activity that occurred during the second quarter of 2015.

### **Allocation Summary**

NYCFDPF has a Real Assets allocation target of 5% (plus or minus 2%) of total pension assets. Infrastructure is a component asset class within the NYCFDPF Real Assets investment program.

As of June 30, 2015, the market value of NYCFDPF Real Assets Program represented approximately 4.1% of total pension assets. The market value of NYCFDPF Infrastructure Program represented approximately 0.2% of total pension assets, a ten basis point increase from the prior quarter.

As the Program matures, the percentage of its market value relative to the total NYCFDPF pension assets as well as total Real Assets will continue to increase.

US\$ in millions *	June 30, 2015	March 31, 2015	June 30, 2014	Quarterly Change	Yearly Change
Total Pension Assets <sup>*</sup>	\$10,927.0	\$10,920.0	\$10,702.0	\$7.0	\$225.0
Total Real Assets <sup>*</sup>	\$452.0	\$435.0	\$396.0	\$17.0	\$56.0
% Allocation to Real Assets (Target of 5% +/- 2%)	4.1%	4.0%	3.7%	+ 15 bps	+ 44 bps
Total Infrastructure Assets	\$17.7	\$7.2	\$3.9	\$10.4	\$13.8
% Allocation to Infrastructure vs. Total Pension Assets	0.2%	0.1%	0.0%	+ 10 bps	+ 13 bps
% Allocation to Infrastructure vs. Total Real Assets	3.9%	1.7%	1.0%	+ 225 bps	+ 293 bps

NYCFDPF total Pension Assets and total Real Assets are as of quarter-end (or, if not yet available, the most recent month-end prior to quarter-end) as reported by The New York City Comptroller's Office on www.comptroller.nyc.gov



### **Performance Summary**

As of June 30, 2015, the Infrastructure Program has achieved a Total Value to Paid-In multiple of 1.1x invested capital and an IRR of 12.3%. Note that, given the relative immaturity of the Portfolio and underlying fund investments, the current performance to-date is not meaningful.

US\$ in millions *	June 30, 2015	March 31, 2015	June 30, 2014	Quarterly Change	Yearly Change
Number of Managers	4	3	3	1	1
Number of Investments	4	3	3	1	1
Committed Capital <sup>1</sup>	\$47.0	\$35.0	\$35.0	\$12.0	\$12.0
Contributed Capital	\$17.4	\$7.1	\$3.9	\$10.4	\$13.6
Distributed Capital	\$0.6	\$0.4	\$0.1	\$0.2	\$0.6
Market Value	\$17.7	\$7.2	\$3.9	\$10.4	\$13.8
Total Value	\$18.3	\$7.7	\$4.0	\$10.7	\$14.4
Total Gain/(Loss)	\$0.9	\$0.6	\$0.1	\$0.3	\$0.8
Unfunded Commitment	\$29.6	\$28.0	\$31.1	\$1.6	(\$1.6)
Exposure <sup>2</sup>	\$47.2	\$35.2	\$35.0	\$12.1	\$12.2
DPI <sup>3</sup>	0.0x	0.1x	0.0x	0.0x	0.0x
TVPI <sup>4</sup>	1.05x	1.09x	1.03x	-0.04x	0.02x
IRR <sup>5</sup>	12.3%	14.8%	10.4%	-2.5%	1.9%
TVPI Net of StepStone Fees <sup>6</sup>	1.05x	1.09x	1.03x	-0.04x	0.02x
IRR Net of StepStone Fees <sup>6</sup>	12.1%	14.8%	10.4%	-2.7%	1.7%

<sup>\*</sup> Note that amounts may not total due to rounding.

<sup>&</sup>lt;sup>1</sup> Committed Capital is presented net of any commitment releases or expirations and reflects foreign currency exchange rate fluctuations. Note that the Base/(US\$) committed capital for foreign currency-denominated investments as of respective quarter-end dates is calculated as follows: (total net amount funded in Base currency) + (unfunded commitment in Local currency \* quarter-end exchange rate). StepStone utilizes S&P Capital IQ as the source for quarter-end exchange rates to calculate committed capital.

<sup>&</sup>lt;sup>2</sup> Exposure represents the sum of Market Value and Unfunded Commitment.

<sup>&</sup>lt;sup>3</sup> DPI, or Distributed to Paid-In Multiple, is a performance metric that measures distributions received relative to capital invested. DPI is calculated as Distributed Capital divided by Contributed Capital.

<sup>&</sup>lt;sup>4</sup>TVPI, or Total Value to Paid-In Multiple, is a performance metric that measures total value created by the Portfolio relative to capital invested, without consideration for time. TVPI is calculated as Total Value, which is comprised of Market Value plus Distributed Capital, divided by Contributed Capital.

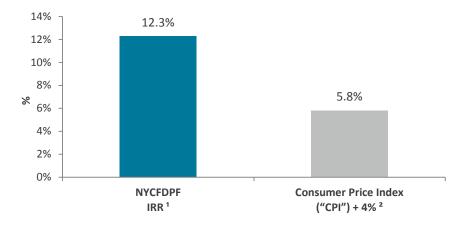
<sup>&</sup>lt;sup>5</sup> IRR, or Internal Rate of Return, is a performance metric that is calculated based on the Portfolio's daily cash flows and market value as of quarter-end. IRR is net of fund managers' fees, expenses and carried interest.

<sup>&</sup>lt;sup>6</sup>TVPI and IRR Net of StepStone fees represent TVPI and IRR net of fees paid by NYCFDPF to StepStone through the quarter-end date.

### Portfolio Performance vs. Benchmarks

The performance benchmark for the Infrastructure Portfolio is to meet or exceed the Consumer Price Index ("CPI") plus 4% net of fees over a rolling 5-year period. The Infrastructure Portfolio is expected to generate a total return, net of investment management fees, of at least 6.5%.

As of June 30, 2015, the Program outperformed the benchmark by 6.5%. However, as noted previously, given the relative immaturity of the Portfolio, the current performance to-date versus benchmarks is not meaningful. The following graph illustrates Portfolio IRR performance versus the benchmark as of June 30, 2015.



<sup>1</sup>NYCFDPF since inception Internal Rate of Return ("IRR") is calculated based on the Portfolio's daily cash flows and market value as of quarter-end. IRR is net of fund managers' fees, expenses and carried interest.

<sup>2</sup>Consumer Price Index ("CPI") benchmark represents the compound annual growth rate of the Consumer Price Index for All Urban Consumers and All Items, as provided by the U.S. Department of Labor: Bureau of Labor Statistics, calculated over a five-year rolling period plus a 4.0% premium.

### **Portfolio Diversification**

The Program's objective is to build a Portfolio that is diversified by investment strategy, asset type, and geography. The target investment strategy ranges are as follows:

- Core Infrastructure Investments: 60% to 100%; and
- Non-Core Infrastructure Investments: 0% to 40%.

Actual percentages may differ substantially from these targets during the initial years of the Program. The following table illustrates the current diversification of the Portfolio by fund strategy, geography and industry focus.

	Marke	et Value	Unfunded C	Unfunded Commitment		osure
As of June 30, 2015 (US\$ in millions)	\$	% of Total	\$	% of Total	\$	% of Total
By Strategy:						
Core	17.7	100.0%	29.6	100.0%	47.2	100.0%
Non-Core	-	0.0%	-	0.0%	-	0.0%
Total	17.7	100.0%	29.6	100.0%	47.2	100.0%
By Geographic Focus:						
Global	7.1	40.4%	8.1	27.5%	15.3	32.3%
OECD	10.6	59.6%	21.4	72.5%	32.0	67.7%
Total	17.7	100.0%	29.6	100.0%	47.2	100.0%
By Industry Focus:						
Diversified	17.2	97.4%	20.1	68.1%	37.4	79.1%
Energy	0.5	2.6%	9.4	31.9%	9.9	20.9%
Total	17.7	100.0%	29.6	100.0%	47.2	100.0%

### **II. Infrastructure Market Overview**

#### **Market Overview**

Demand for infrastructure investments from institutional investors remained strong during the second quarter of 2015 ("2Q15"). This demand was primarily a result of expansionary monetary policies in most markets, which has kept interest rates at very low levels and caused investors to seek alternatives to traditional sources of investment income. This demand continued to drive a high valuation environment for the infrastructure asset class, particularly in mature markets with a wide range of opportunities, such as Western Europe, the Nordic region and Australia.

Global economic growth continued to exhibit divergence in the second quarter. According to the IMF, global growth is projected at 3.3 percent in 2015, marginally lower than in 2014, with a gradual pickup in advanced economies and a slowdown in emerging market and developing economies. Growth in advanced economies is projected to increase from 1.8 percent in 2014 to 2.1 percent in 2015. During the second quarter, accommodative central bank policies, lower fuel prices, and improving confidence and labor market conditions helped to accelerate economic activity in advanced economies. Conversely, growth in emerging market and developing economies is projected to slow from 4.6 percent in 2014 to 4.2 percent in 2015. The slowdown reflects several factors, including lower commodity prices and tighter external financial conditions, structural bottlenecks, rebalancing in China, and economic distress related to geopolitical factors.

Infrastructure investment in the US and Canada has been concentrated in the energy sector, although public-private partnerships ("P3s") in the transport and social infrastructure sectors continue to grow in the US, Canada and Mexico. In the US, fiscal constraints on public-sector funding for these projects has been a significant factor in the increase in recent activity levels. Deal count is expected to increase as a growing number of states are entertaining legislation to allow private investment in infrastructure. In June, the Obama administration announced a clean-energy investment program that includes \$4 billion in commitments from the private sector, including more than \$1 billion from institutional investors.

European markets remain competitive, with a significant amount of capital targeting infrastructure investment in the region. The resulting upward pricing pressure, combined with uncertain medium-term economic growth in the Eurozone, ongoing financial sector reforms, concerns surrounding bank capital adequacy, and geopolitical risks in Eastern Europe, present an uncertain outlook for investors. Notwithstanding this, activity levels are being sustained by the ongoing unbundling of integrated utilities, commitments to renewable energy targets, balance sheet deleveraging by existing asset owners, and security of energy supply priorities.

Investment activity in Latin America remains strong. In Mexico, recent changes in government policy are driving significant growth in infrastructure investment opportunities. Policy initiatives include allowing foreign investment in the energy sector and a National Infrastructure Plan that contains 743 projects requiring investment of approximately US\$600 billion from 2014 to 2018. StepStone is aware of several infrastructure fund managers reviewing opportunities in Mexico. Infrastructure is a political and economic priority in many other parts of Latin America, including Brazil, Chile, Peru and Columbia, each of which continues to provide a range of potential investment opportunities.

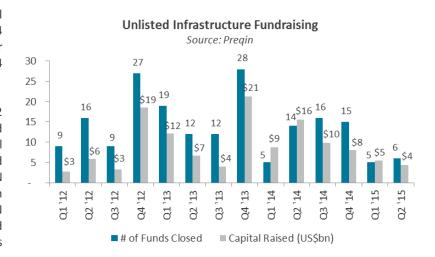
While infrastructure investment in Japan has traditionally been dominated by government-related entities and infrastructure companies with limited private participation by institutional investors, the government continues to face high debt levels. The country recently announced the privatization act for infrastructure assets. In Australia, fiscal constraints placed on the federal and state governments have increased the reliance on private sector capital in meeting the country's infrastructure deficit. Government initiatives have encouraged a number of high profile opportunities including ports, energy and airport privatizations.

### **Infrastructure Fundraising**

Fundraising for infrastructure strategies continues to be robust with a large number of funds in market, although the aggregate amount raised by funds that closed during the second quarter was down compared to recent periods.

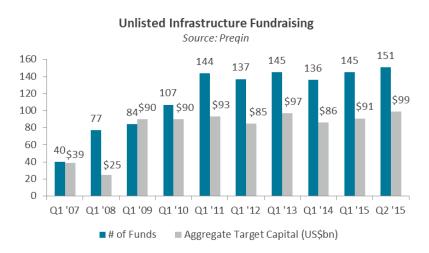
During the second quarter, six funds held final closings. Aggregate capital raised was US\$4.4 billion. The amount represented a year over year decrease of 72% compared to Q2 2014, when 14 funds held a final close raising US\$15.5 billion.

The largest fund to reach a final closing during Q2 was ISQ Global Infrastructure Fund, which raised US\$3.0 billion of commitments. The fund will primarily focus on the energy, utilities and transportation sectors globally. Additionally, iCON Infrastructure Partners III closed with €800 million of commitments. The Fund will continue iCON Infrastructure's strategy of investing in mid-sized infrastructure assets in core infrastructure sectors in Europe and North America.



Fund	General Partner		Size	Final Close Date	Location Focus
ISQ Global Infrastructure Fund	l Squared Capital	\$	3,000	Apr-15	US
iCON Infrastructure Partners III	iCON Infrastructure	€	800	May-15	Europe
MC-Seamax Shipping Opportunities Fund	MC-Seamax Management	\$	300	May-15	US
CVI Shipping Opportunities Fund	CarVal Investors	\$	252	Jun-15	US
Equitix Energy Efficiency Fund	Equitix	£	150	Apr-15	Europe

At the end of the second quarter, Pregin observed 151 funds in market targeting aggregate capital commitments of US\$99 billion. The largest funds in market include: Alinda Infrastructure Fund III, targeting US\$5.0 billion; Morgan Stanley Infrastructure Partners II, targeting US\$4.0 billion; ArcLight Energy Partners Fund VI, targeting US\$4.0 billion; Ardian Infrastructure Generation IV, targeting €2.5 billion for a European-focused strategy: and The UK **Technologies** Media Telecommunications and Infrastructures Fund, targeting €2.5 billion to focus on investments in large-scale communications projects in the UK and disruptive European start-ups in the TMT industry.

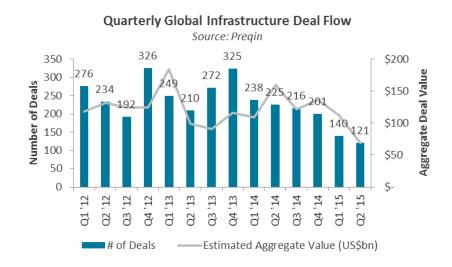


### **Major Transactions**

During the second quarter, 121 infrastructure deals were completed with an estimated aggregate deal value of US\$69.5 billion, representing a 38% decline in deal value compared to the prior quarter. Several significant infrastructure transactions completed in the second quarter are presented below.

In May 2015, LaGuardia Gateway Partners was chosen by the Port Authority of New York and New Jersey to design, build, finance, operate and maintain a new terminal at LaGuardia Airport. The consortium is led by Swedish construction company Skanska AB and a Vancouver-based airport operator. The US\$4.0 billion construction project is expected to break ground in the first part of 2016.

In June 2015, Global Infrastructure Partners entered into a strategic joint venture with Hess Corporation through the acquisition of a 50% interest in Hess Infrastructure Partners for US\$2.7 billion. The midstream assets are located primarily in Williams,



Mountrail and McKenzie counties, North Dakota, and are comprised of crude oil and natural gas gathering systems, a natural gas processing and fractionation facility, crude oil export logistics assets and an underground propane storage facility. Hess will retain operational and budget control, while decisions on capital structure, debt and equity offerings, and contracts will require joint agreement.

In April 2015, the Government of Canada announced that Signature on the Saint-Lawrence Group had been selected as the preferred proponent for the construction of a new bridge over the St. Lawrence River to replace the Champlain Bridge and associated infrastructure. The project cost is CAD\$2.2 billion.

In May 2015, a consortium led by Macquarie Infrastructure and Real Assets entered into an agreement to acquire Crown Castle Australia Holdings Pty Ltd, an Australian wireless communications infrastructure business majority owned by US-based Crown Castle International. Total deal size is AUD\$2.0 billion, an implied price of 20x EBITDA.

In April 2015, a consortium formed by EDF Invest, Gingko Tree Investment Ltd, and Dutch pension fund manager PGGM entered into an agreement to purchase Madrileña Red de Gas, a Spanish gas distribution company, from Morgan Stanley Infrastructure for €1.3 billion.

## III. Portfolio Review

### **Quarterly Highlights**

• **New Investment Commitments** – During the second quarter of 2015, the Program closed on one new investment commitment totaling US\$12.0 million. This is shown in the table below.

US\$ in millions

Investment	Month and Year Closed	Vintage Year	Strategy	Geographic Focus	Industry Focus	Committed Capital
KKR Global Infrastructure Investors II L.P.	June 2015	2014	Infrastructure	OECD	Diversified	\$12.0
Total						\$12.0

- **Subsequent Investment Commitments** Subsequent to quarter-end through November 13, 2015, the Program has not closed on any additional investment commitments.
- Cash Outflow Increased During the second quarter of 2015, the Program made US\$10.4 million of contributions and received US\$0.2 million of distributions, for a net cash outflow of US\$10.2 million. This compared to a net cash outflow of US\$2.4 million during the prior quarter. Net cash flow is expected to remain negative for the next several years as the Program's committed capital is drawn down for investments, fees and expenses by fund managers.
- **Valuation Increased** During the second quarter of 2015, net of cash flow activity, the valuation of the Portfolio increased by approximately US\$0.3 million, or 1.5%, from the prior quarter. The valuation increase reflects the increase in value of underlying investments in Brookfield Infrastructure Fund II and IFM Global Infrastructure Fund.
- Significant New Investments During the second quarter of 2015, 15 new investment positions were added to the Portfolio as a result of closing on commitments to IFM Global Infrastructure Fund and KKR Global Infrastructure Investors II. Of the 15 new investments, 14 were made in previous quarters by the aforementioned funds. The top five new investments in terms of the Portfolio's exposed invested capital are below.

US\$ in millions

Company	Fund(s)	Investment Date	Stage	Industry	Country	Exposed Invested Capital		TVM
Indiana Toll Road	IFM Global Infrastructure Fund	Ma y-15	Private	Industrials	United States	3.0	3.0	1.0x
Manchester Airports Group	IFM Global Infrastructure Fund	Feb-13	Private	Industrials	United Kingdom	1.2	1.8	1.5x
Essential Power	IFM Global Infrastructure Fund	Ma y-08	Private	Utilities	United States	1.0	0.4	0.4x
Freeport Investment Notes	IFM Global Infrastructure Fund	Nov-14	Private	Energy	United States	0.9	1.0	1.1x
Veresen Midstream	KKR Global Infrastructure Investors II L.P.	Ma r-15	Private	Energy	Canada	0.6	0.6	1.0x

• **No Exits** – There were no exits of investment positions during the quarter.

### **Performance by Vintage Year**

The following table illustrates the Portfolio's since-inception investment performance by vintage year as of June 30, 2015. Note that the performance of funds that are less than one year old is not meaningful.

As of June 30, 2015 (US\$ in millions)

Vintage Year	Committed Capital	Contributed Capital	Distributed Capital	Market Value	Total Value	Total Gain/ (Loss)	Unfunded Commitment	Exposure	DPI	TVPI	IRR
2013	\$15.0	\$6.9	\$0.6	\$7.1	\$7.8	\$0.9	\$8.1	\$15.3	0.1x	1.1x	15.4%
2014	32.0	10.6	-	10.6	10.6	(0.0)	21.4	32.0	NM	NM	NM
Total	\$47.0	\$17.4	\$0.6	\$17.7	\$18.3	\$0.9	\$29.6	\$47.2	0.0x	1.1x	12.3%

### **Performance by Strategy and Industry Focus**

The following table illustrates the Portfolio's since-inception investment performance by strategy and industry focus as of June 30, 2015.

As of June 30, 2015 (US\$ in millions)

Strategy/Industry	Committed Capital	Contributed Capital	Distributed Capital	Market Value	Total Value	Total Gain/ (Loss)	Unfunded Commitment	Exposure	DPI	TVPI	IRR
Core	\$47.0	\$17.4	\$0.6	\$17.7	\$18.3	\$0.9	\$29.6	\$47.2	0.0x	1.1x	12.3%
Diversified	37.0	16.9	0.6	17.2	17.9	1.0	20.1	37.4	0.0x	1.1x	14.0%
Energy	10.0	0.6	-	0.5	0.5	(0.1)	9.4	9.9	NM	NM	NM
Total	\$47.0	\$17.4	\$0.6	\$17.7	\$18.3	\$0.9	\$29.6	\$47.2	0.0x	1.1x	12.3%

### **Performance by Geographic Focus**

The following table and charts illustrate the Portfolio's since-inception investment performance by geographic focus as of June 30, 2015.

As of June 30, 2015 (US\$ in millions)

Geographic Focus	Committed Capital	Contributed Capital	Distributed Capital	Market Value	Total Value	Total Gain/ (Loss)	Unfunded Commitment	Exposure	DPI	TVPI	IRR
Global	\$15.0	\$6.9	\$0.6	\$7.1	\$7.8	\$0.9	\$8.1	\$15.3	0.1x	1.1x	15.4%
OECD	32.0	10.6	-	10.6	10.6	(0.0)	21.4	32.0	NM	NM	NM
Total	\$47.0	\$17.4	\$0.6	\$17.7	\$18.3	\$0.9	\$29.6	\$47.2	0.0x	1.1x	12.3%

### **Portfolio Diversification**

### By Strategy, Geography and Industry Focus

The Program's objective is to build a Portfolio that is diversified by investment strategy, asset type, and geography. The target investment strategy ranges are as follows:

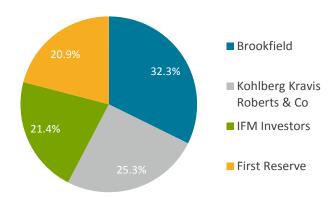
- Core Infrastructure Investments: 60% to 100%; and
- Non-Core Infrastructure Investments: 0% to 40%.

Actual percentages may differ substantially from these targets during the initial years of the Program. The following table illustrates the current diversification of the Portfolio by fund strategy, geography and industry focus.

	Mark	et Value	Unfunded	Commitment	Ехр	osure
As of June 30, 2015 (US\$ in millions)	\$	% of Total	\$	% of Total	\$	% of Total
By Strategy:						
Core	17.7	100.0%	29.6	100.0%	47.2	100.0%
Non-Core	-	0.0%	-	0.0%	-	0.0%
Total	17.7	100.0%	29.6	100.0%	47.2	100.0%
By Geographic Focus:						
Global	7.1	40.4%	8.1	27.5%	15.3	32.3%
OECD	10.6	59.6%	21.4	72.5%	32.0	67.7%
Total	17.7	100.0%	29.6	100.0%	47.2	100.0%
By Industry Focus:						
Diversified	17.2	97.4%	20.1	68.1%	37.4	79.1%
Energy	0.5	2.6%	9.4	31.9%	9.9	20.9%
Total	17.7	100.0%	29.6	100.0%	47.2	100.0%

### By Investment Manager

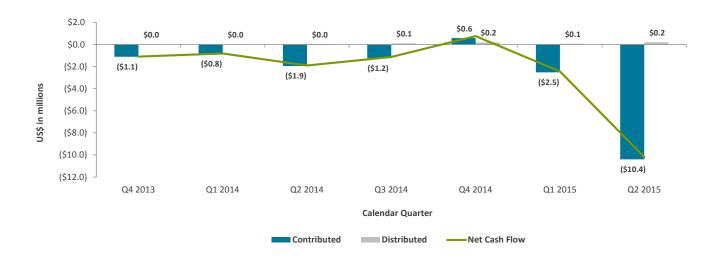
As of June 30, 2015, the Program had made four investment commitments to four managers. NYCFDPF seeks to limit its exposure to any single manager to no more than 10% of the total Real Assets Program when fully invested. As the Program matures and closes on additional commitments, the single manager exposure is expected to decline significantly. Below is the Portfolio's current exposure by manager.



### **Portfolio Cash Flow Analysis**

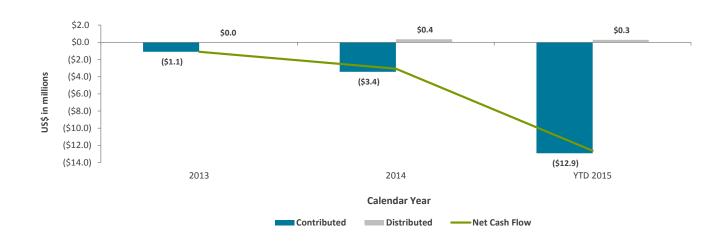
### **Quarterly Cash Flow Activity**

During the second quarter of 2015, the Program made US\$10.4 million of contributions and received US\$0.2 million of distributions, for a net cash outflow of US\$10.2 million. As of June 30, 2015, three fund investments in the Portfolio had cash flow activity. As the Program's commitment and investment activity increases, net cash outflow is expected to increase. The graph below illustrates cash flow activity since inception by calendar quarter.



### **Annual Cash Flow Activity**

During the first six months of 2015, the Program made US\$12.9 million of contributions and received US\$0.3 million of distributions, for a net cash outflow of US\$12.6 million. The graph below illustrates cash flow activity since inception by calendar year.

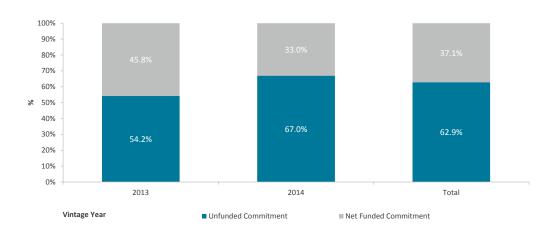




### Net Funded and Unfunded Commitments by Vintage Year

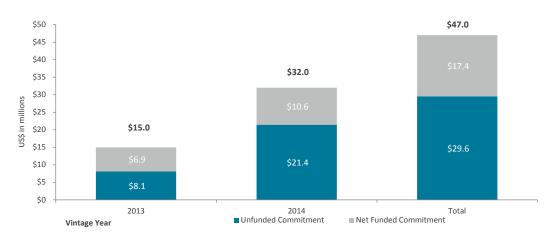
The following chart illustrates the Portfolio's net funded commitments (defined as total contributions inside commitment less any returns of excess capital and recallable distributions) as a percentage of total capital commitments, by fund vintage year, as of June 30, 2015. Overall, the Portfolio was 62.9% unfunded as of quarter-end.

### Net Funded and Unfunded Commitment by Vintage Year (%)



The following chart illustrates the Portfolio's net funded commitments relative to total capital commitments, by fund vintage year, as of June 30, 2015. Overall, the Portfolio had US\$29.6 million of unfunded commitments as of quarter-end.

### Net Funded and Unfunded Commitment by Vintage Year (US\$ millions)



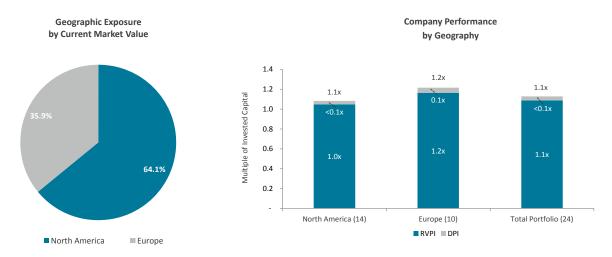


### **Portfolio Company-Level Analysis**

As of quarter-end, the Portfolio had exposure to 24 unique portfolio companies/investment positions. As the Portfolio matures, the number of unique portfolio companies/investment positions is expected to increase significantly. On the individual fund level, all current investments are within the single investment limitation of 15% of total fund size. The Program's individual portfolio investment exposure is relatively concentrated as a result of the relative immaturity of the Program.

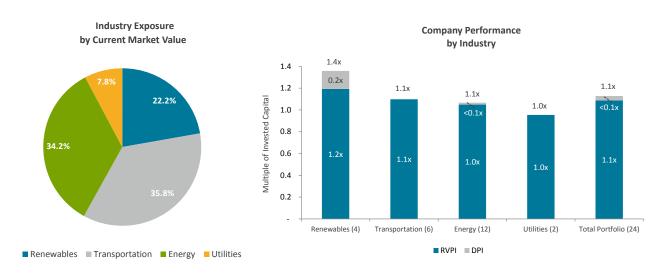
### **Geographic Exposure and Performance**

The following charts illustrate the Portfolio's current exposure and performance by geographic region at the portfolio company level.



### **Industry Exposure and Performance**

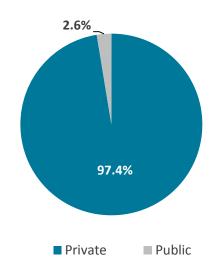
The following charts illustrate the Portfolio's current exposure and performance by industry at the portfolio company level.



### **Public Market Exposure**

As of quarter-end, publicly traded investments comprised 2.6% of the Portfolio's exposed market value. The following chart illustrates the current public market exposure at the portfolio company level.

### **Public Market Exposure Current Market Value**



# IV. Risk Management Matrix

Category	Requirement	Status	Status Notes
Allocation	NYCFDPF has a Real Assets allocation target of 5% (plus or minus 2%) of total pension assets.  Infrastructure is a component asset class within the NYCFDPF Real Assets investment program.	<b>√</b>	The market value of NYCFDPF Real Assets Program currently represents approximately 4.1% of total pension assets and the market value of NYCFDPF Infrastructure Program represents approximately 0.2% of total pension assets.  As the Program matures, its market value as a percentage of the total NYCFDPF pension assets and the total Real Assets Program is expected to increase.
Performance vs. Benchmarks	The performance benchmark for the Infrastructure Portfolio is to meet or exceed the Consumer Price Index ("CPI") plus 4% net of fees over a rolling 5-year period.  The Infrastructure Portfolio is expected to generate a total return, net of investment management fees, of at least 6.5%.	<b>√</b>	As of June 30, 2015, the Portfolio outperformed the benchmark by 6.5%.  However, given the relative immaturity of the Portfolio, the current performance to-date versus benchmarks is not meaningful.
Strategy Diversification	Core Infrastructure Investments: 60-100% Non-Core Infrastructure Investments: 0-40% Actual percentages may differ substantially from these targets during the initial years of the Program.	<b>√</b>	The Program is in compliance with the Core/Non-Core allocation ranges. Currently the Program only has exposure to Core investments.
Asset Type & Location Diversification	The Program will seek diversification by asset type, revenue drivers, and geography. The portfolio may include a variety of assets including but not limited to electricity transmission, pipelines, airports, toll roads, communication towers and electric generators, windmills etc. to vary the sources of revenue to the portfolio.	✓	Given the relative immaturity of the Portfolio, it is not yet diversified by asset type.  The asset types and geographic location of current Portfolio investments are in compliance with the Program's Investment Policy Statement and Permissible Markets.
Leverage	The average leverage of all investments in the Program is to be no higher than 65%.	<b>√</b>	The Program is in compliance with the average leverage limitation. The current leverage level is $40.9\%$ .
Single Investment Size & Manager Diversification	The maximum commitment to a single investment is limited to no more than 15% of the aggregate committed capital of each fund.  The maximum commitment to a single manager is limited to 10% of the total Real Assets Program allocation when fully invested.	✓	On the individual fund level, all current investments are in compliance with the single investment limitation of 15% of total fund size.  The Program is in compliance with the single manager limitation of 10% of the total Real Assets Program.  The Program's manager exposure is currently relatively concentrated as a result of the relative immaturity of the Program. Manager diversification is expected to increase as the Program closes on new investment commitments.

<sup>\*</sup>The Program's leverage level is calculated by using a weighted average of each underlying investment's leverage and Net Asset Value as of June 30, 2015.

APPENDICES:

Basket Clause

FIRE - BASKET/NON BASKET SUMMARY

As of October 31st, 2015 **Adjusted Fund Policy** Fund Actual (PE & RE on an invested basis) Non Non Basket\* Basket\* **Equity** Basket\* Total Basket\* **Total** Domestic Equity 30.3% 0.0% 30.5% 30.5% 30.3% 0.0% Non-U.S. Equity 10.0% 6.5% 16.5% 10.0% 6.3% 16.3% **Private Equity** 0.0% 7.0% 7.0% 0.0% 7.0% 7.0% **Real Assets** 0.0% 4.3% 4.3% 4.3% 0.0% 4.3% REITS 2.8% 0.2% 3.0% 3.1% 0.2% 3.3% **Hedge Funds** 0.0% 3.1% 3.1% 0.0% 3.1% 3.1% 48.0% **Total Equity** 47.4% 16.8% 64.2% 16.6% 64.6% **Fixed Income** Core+5 21.5% 0.5% 22.0% 18.8% 0.5% 19.3% U.S. Gov't Sector 4.6% 0.0% 4.6% 2.1% 0.0% 2.1% 8.0% Mortgage Sector 0.0% 8.0% 7.6% 0.0% 7.6% Credit Sector 0.5% 9.0% 9.0% 0.5% 9.5% 8.5% **High Yield** 2.8% 0.7% 3.5% 3.0% 0.7% 3.7% **Bank Loans** 0.0% 1.7% 1.7% 0.0% 1.7% 1.7% TIPS 4.5% 0.5% 5.0% 2.5% 0.3% 2.7% Convertibles 1.0% 0.0% 1.0% 0.5% 0.0% 0.5% **Opportunistic** 0.0% 2.6% 2.6% 0.0% 2.6% 2.6% Other Fixed Income 0.0% 0.0% 4.9% 0.0% 0.0% 4.9% **Total Fixed Income** 29.8% 6.0% 35.8% 29.7% 5.8% 35.5%

Remaining Capacity

**Total Fund** 

2.2%

22.8%

100.0%

77.6%

77.2%

2.6%

22.4%

100.0%

Liquidity Analysis

### 11/25/15

# FIRE Liquidity Profile - Static Analysis

AUM as of October 31, 2015

			Liquid Assets	_
	Current MV	Today	1 Year	2 Years
Domestic Equity	\$3,332	\$3,332	\$3,332	\$3,332
International Equity	1,075	1,075	1,075	1,075
<b>Emerging Markets</b>	704	704	704	704
Hedge Funds	336	0	291	315
REITS	364	364	364	364
Private Equity	769	0	0	0
Private Real Estate	469	0	0	0
Core + 5	2,110	2,110	2,110	2,110
TIPS	298	298	298	298
Opportunistic Fixed Income	288	216	288	288
Enhanced Yield	403	403	403	403
Bank Loans	181	181	181	181
Convertible Bonds	53	53	53	53
ETI	85	19	72	72
Cash	450	450	450	450
Total Assets	\$10,916	\$9,205	\$9,621	\$9,645
Total Illiquid \$ Total Illiquid %		\$1,712 15.7%	\$1,295 11.9%	\$1,272 11.6%
Unfunded PE Commitments Unfunded RE Commitments Unfunded OFI Commitments Total commitments \$ Total commitments %	\$465 189 75 \$730 6.7%			

## FIRE Liquidity Profile - Static Analysis

11/25/15

AUM as of October 31, 2015

 Total Illiquid \$
 \$1,712
 \$1,295
 \$1,272

 Total Illiquid %
 23.5%
 17.8%
 17.5%

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

			Liquid Assets		
	<b>Current MV</b>	Today	1 Year	2 Years	
Total Assets	\$10,916	\$9,205	\$9,621	\$9,645	
Private Equity, Real Estate and Opportunistic Fixed Income Stress Case Unfunded PE Commitments Drawn \$93 \$186					
Unfunded RE Commitments Drawn			38	76	
Unfunded OFI Commitments Drawn			38	0	
Total commitments \$			\$168	\$262	
Total commitments %			1.5%	2.4%	
Total Illiquid \$			\$1,464	\$1,533	
Total Illiquid %			13.4%	14.0%	
Note: Assumes zero realizations, no new commitments and a five-year investment period; funded out of liquids					
Denominator Effect - Decrease AUN Total Illiquid \$ Total Illiquid %	M by One-Third	\$1,712 23.5%	\$1,464 20.1%	\$1,533 21.1%	

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