

#### Private Equity Update 12/10/2014

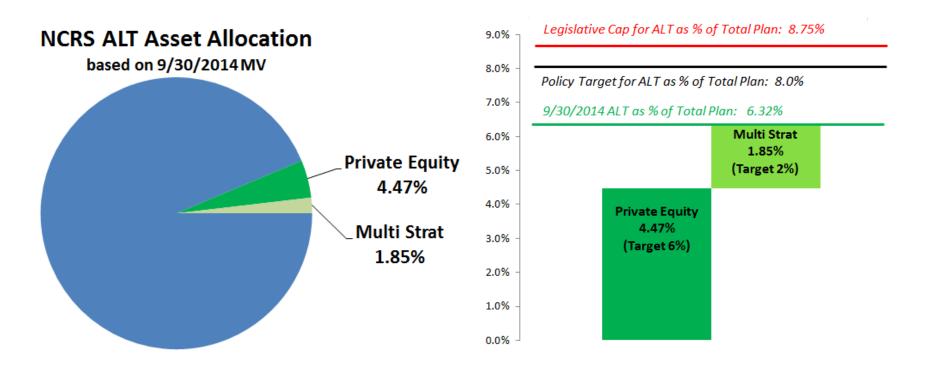


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### **Alternatives Allocation**

#### As of September 30, 2014

- o Alternatives represented 6.32% of the Total NCRS Plan
- Private Equity represented 4.47%, below the Policy Target of 6%



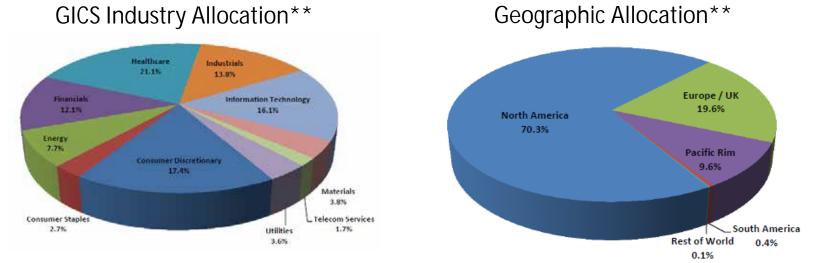


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# **Private Equity Allocation**

Policy Relative to Actual Portfolio Weights*							
	Policy Range Actual (11/1)						
Strategy	MIN	TARGET	MAX	(FMV)			
Buyout	35%	50%	65%	49.3%			
Growth/Venture	10%	20%	30%	29.0%			
Special Situations	15%	30%	45%	21.7%			

\*Data includes Fund of Funds' underlying exposure to given strategy.



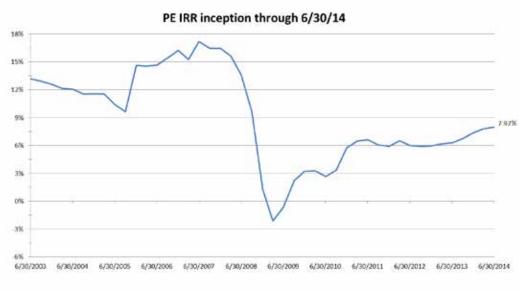
\*\*Data includes Fund of Funds' underlying exposure to industry or geography, based on latest available FMV.



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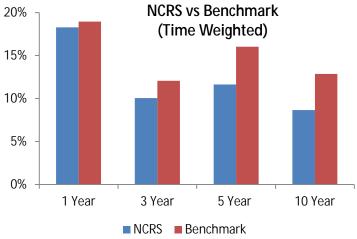
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# **Private Equity Performance**



**Ø** PE IRR through 6/30/14 is 7.97%

Time weighted performance lagging the benchmark. The gap is smaller over the shorter duration, implying weaker performance in the earlier years.





# **Prior & Current Activities**

#### Fund commitments by calendar year in which commitment was made.

FUND COMMITMENTS COMPLETED IN 2012			FUND COMMITMENTS COMPLETED IN 2013			FUND COMMITMENTS FOR 2014					
FUND	COMMITMENT <u>AMOUNT</u> (\$ millions)	VINTAGE <u>YEAR</u>	<u>Relationship</u>	FUND	COMMITMENT <u>AMOUNT</u> (\$ millions)	VINTAGE <u>YEAR</u>	RELATIONSHIP	FUND	Commitment Amount	VINTAGE <u>YEAR</u>	<u>RELATIONSHIP</u>
виуоит	(\$ millions)			виуоит	(\$ millions)			виуоит	(\$ millions)		
Accel-KKR Capital Partners IV	10	2013	NEW	Avista Capital Partners III	150	2011	existing	Crestview Capital Partners III	150	2013	existing
Carousel Capital Partners IV	25	2012	existing	Apollo Investment Fund VIII	220	2011	existing	Pending - US Buyout Fund	100	2015	existing
Halifax Capital Partners III	30	2012	existing	Catterton Partners VII	100	2013	existing				5
				CVC Capital Partners VI	97.5	2013	existing				
				HgCapital 7	98.2	2013	NEW				
				Levine Leichtman Capital Partners V	150	2013	NEW	VC / GROWTH			
				Milestone Partners IV	50	2013	NEW	ARCH Venture Fund VIII	80	2014	existing
				Warburg Pincus XI	<u>150</u>	2012	existing	Tenaya Capital Fund VII	90	2015	existing
				TOTAL BUYOUTS	1015.7		5				
VC / GROWTH				VC / GROWTH							
NEA 14	45	2012	NEW	Catterton Growth Partners II	75	2013	existing				
				TCV VIII	150	2013	existing	SPECIAL SITUATION			
							5	Lexington Middle Market Investors III	150	2012	existing
SPECIAL SITUATION				SPECIAL SITUATION				Pending - Four Special Situations Funds	800	various	new & existing
Mount Kellett Capital Partners II	75	2011	NEW	Marlin Equity IV	49	2013	NEW				
				StepStone SYN	5	2006	existing				
				GCM Grosvenor - NC Innovation Fund 2013	15	2013	existing				
TOTAL COMMITMENT	<b>rs</b> 185			TOTAL COMMITMENTS	1309.7			TOTAL COMMITMENTS	1370		

#### Vintage Year commitment translation:

	Commitments (\$s MM)					
Vintage	ExistingCommitment	Existing + Pending				
2013	867.2	1117.2				
2014	327.5	927.5				
2015	90.0	190.0				



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# **Private Equity**

#### **Strategic Discussion Items**

- Pacing / Vintage Year Diversification
- Portfolio Construction
- Number of Relationships / Size of Commitments
- Geographic Diversification



# Pacing / Vintage Year Diversification





#### Target Allocation: 6% vs. current 4.47%

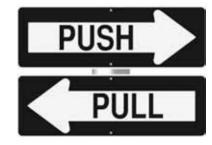
#### Lower Equity Contributions



#### **Discussion**:

Continue to be Active but Remain Underweight reflecting Market Conditions

Source: S&P Capital IQ LCD 's Leveraged Buyout Review



Disciplined Vintage Year Diversification



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## **Portfolio Construction**

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Buyout	35%	50%	65%	49.3%		
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Discussion: Portfolio Tilt

Away from Buyout

Toward Special Situations Secondaries / Co-Invest / Distressed

Relatively Unattractive Environment "TODAY" for Buyout

Special Sits can take advantage of market dislocations / inefficiencies



Adherence to Target Allocations



# Number of Relationships / Size of Commitments

Backdrop: Number of Fund Managers = 60+ Number of Funds = 100+

<u>Discussion</u>: Tradeoffs between "Blue Chip" managers and Idiosyncratic Opportunities



Simplify the portfolio # of funds & relationships Optimize commitment size negotiate preferable TNC/Fees



More reliance on leverage More concentration risk

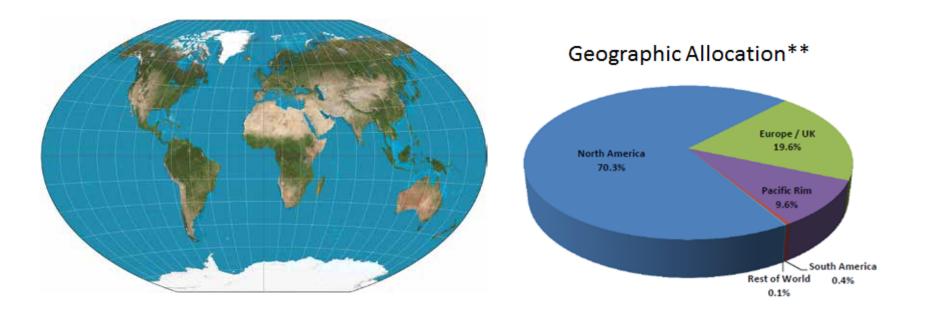
#### **Idiosyncratic Opportunities**

Target smaller EV companies Lower entry valuations Less reliance on leverage More Levers to pull

Greater number of relationships Strong performers have less favorable terms



## **Geographic Diversification**



#### Discussion: Systematic Geographic target allocation or be Tactical / Opportunistic

\*\*Data includes Fund of Funds' underlying exposure to industry or geography, based on latest available FMV.



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## Private Equity

# <u>Appendix</u>



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# Private Equity: Overview / Key Takeaways

#### Robust Credit Supply

- Ø Low interest rate environment and search for yield have facilitated favorable lending terms
  - Covenant Light
  - 1H14 sponsored loan volume on pace to exceed full year 2013 (which exceeded 2007)
  - 2013 record high yield bond issuance  $\rightarrow$  continued with 2Q14 experiencing a record quarter
  - Average debt multiples appear to have normalized at more conservative levels relative to pre-crisis period

#### Valuations have risen significantly

Ø Purchase price multiples continued upward trend, close to pre-crisis levels

#### SEEING A SELLERS' MARKET

Fundraising - 2013 set a Post-Crisis Record Year, only eclipsed by 2007 and 2008

- Significant capital being returned to LPs
- Solution Funds that withstood the recession are rewarded with abbreviated fundraising periods

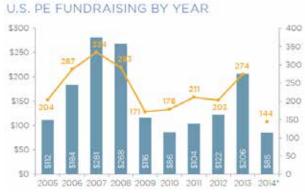
#### NEW CAPITAL – WHAT WE WANT TO SEE

<u>Buyout</u> Sector expertise Operating Ability Low Leverage <u>VC/Growth Equity</u> Maintain High Bar Grow Relationships <u>Special Sits - Secondaries</u> Regulations Enhancing Supply Structured Transactions Separate Accounts

Opportunistic Strategies Co-Investments



#### Private Equity Fundraising (excluding VC)



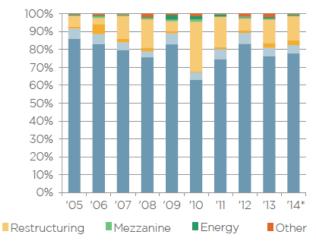




FUNDRAISING (#) BY FUND TYPE



#### FUNDRAISING (\$) BY FUND TYPE



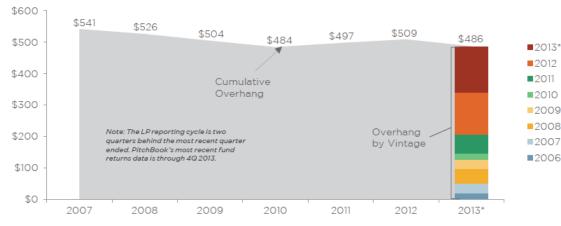
#### Source: PitchBook \*as of 6/30/14

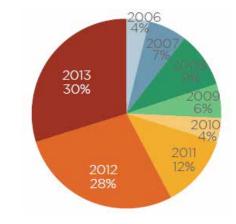


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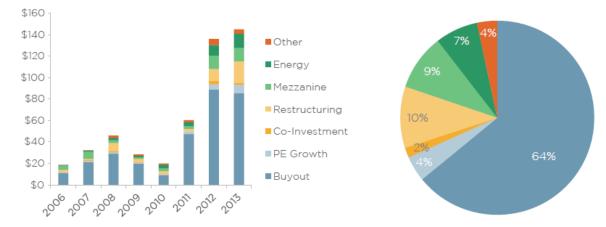
### Private Equity Overhang (excluding VC)

#### U.S. PE CAPITAL OVERHANG (\$B)





PE CAPITAL OVERHANG (\$B) BY FUND TYPE

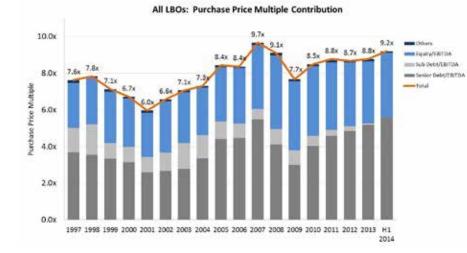


Source: PitchBook \*as of 12/31/13

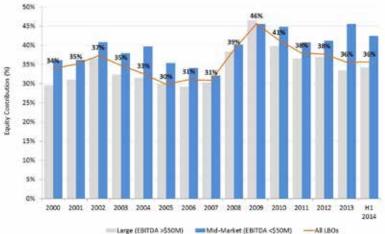


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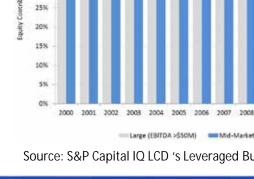
## U.S. Buyout – Entry Valuations



LBO Equity Contributions by Company Size

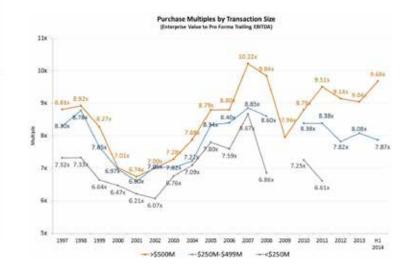


Source: S&P Capital IQ LCD 's Leveraged Buyout Review





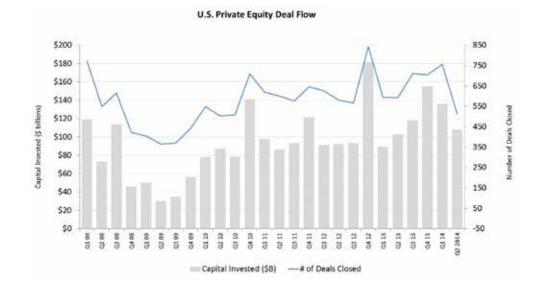
North Carolina Department of State Treasurer **Investment Management** 



- At 36% for All LBOs in H1 2014, equity contributions ٠ remained above the pre-crisis levels.
- Mid-market transactions consistently show higher ٠ equity contributions, as credit is more readily available to finance transactions involving larger, more stable companies.
- Average debt multiples for 1H14 for issuers with ٠ EBITDA >\$50M were 5.6x (below 6.2x in 2007) EBITDA <\$50M were 5.2x (below 5.6x in 2007)

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### U.S. Buyout – Market Transaction Activity



\$244 billion was invested in 1,272 PE transactions in 1H14

• 2014 is ahead of pace relative to the prior 3 years

Witnessed slowdown from 1Q14 to 2Q14

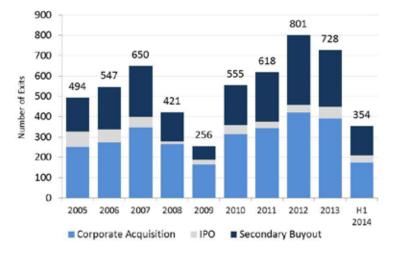
possibly due to higher prices / market frothiness

Source: PitchBook



## U.S. Private Equity – Exit Environment

#### **Private Equity Exit Trends by Type**





#### Private Equity: Number of Exits and Capital Exited

Exits slowed slightly in 2Q14, though deal count and capital exited remain strong for 1H14

Corporate acquisition and secondary buyouts slowed by count 9% and 13%, respectively, in Q2 relative to Q1.

• We expect this trend to reverse

M high levels of cash on corporate balance sheets
M PE dry powder
M aradit availability

Ø credit availability

Source: PitchBook



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# **Buyouts - NCRS Strategy**

Ø Preference for middle market funds and a limited number of large funds

Attı	active investment strategies:	Bloomberg			
q	Sector focus	Top LBO Fund Investors Pile on Leverage to Boost Returns			
q	Deep value	By Kiel Porter and Sabrina Willmer - Sep 9, 2014			
q	Structured transactions or securities	Some of the world's biggest investors in leveraged-buyout funds are themselves using unprecedented levels of debt to boost returns. "Leverage is a double-edged sword," said Oliver Gottschalg, a professor at French business school HEC Paris. "It can boost the performa			
q	Operational expertise	the upside and rapidly eat into capital on the downside. The more leverage you apply, the more extreme the outcome will be for the investor."			
q	Less reliance on Leverage	New issuance of sponsored and covenant-lite loans in 1H14 was on pace to exceed full year 2013 volume, which previously had peaked in 2007. § 2Q14 was a record quarter of \$105 billion in issuance § issuers continue to enjoy low coupons and issuer-friendly covenant			

packages

- Mix of re-ups with existing managers and select new relationships
- Ø Typical Buyout commitment size going forward = \$150-\$200 MM
  - **q** Expect to concentrate on fewer number of high conviction managers/GPs

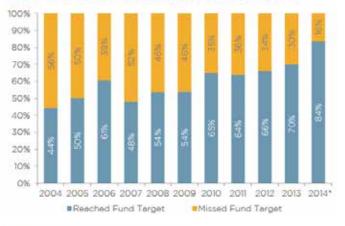


Ø

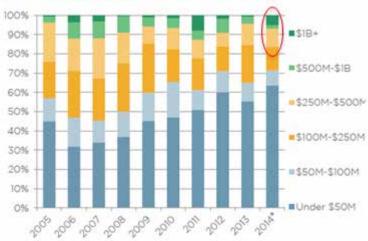
## Venture Capital Fundraising



% OF FUNDS THAT REACH FUND TARGET







#### Source: PitchBook \*as of 6/30/14

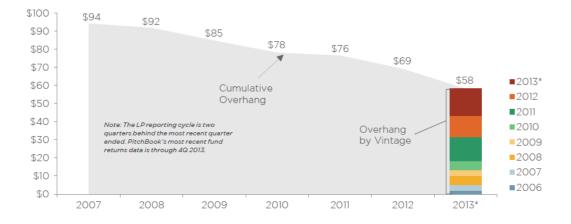


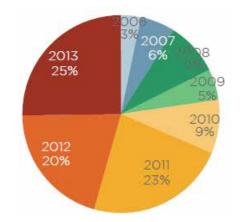
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## Venture Capital Overhang

#### U.S. VC CAPITAL OVERHANG (\$B)





VC CAPITAL INVESTED VS. CAPITAL RAISED (\$B)

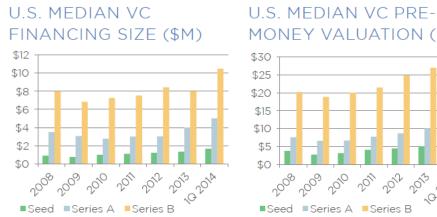


#### Source: PitchBook \*as of 12/31/13 unless otherwise noted



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## Venture Capital – Valuations



# MONEY VALUATION (\$M) ~0<sup>2014</sup> Series A Series B

#### Valuations continue to climb

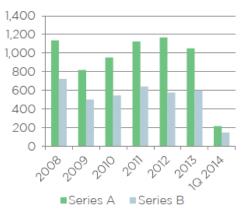
Series B crunch

Are we seeing "more Series B-worthy companies going unfunded because of a diminishing number of financings and opportunities"?

PitchBook answer: NO

- "seeing a normal supply and demand issue play out that ٠ historically has resulted in about half of Series A companies becoming Series B companies"
- companies are getting better terms at the B stage, such ۲ as higher valuations and larger deal size

#### U.S. VC FINANCINGS (#) BY SERIES



Source: PitchBook

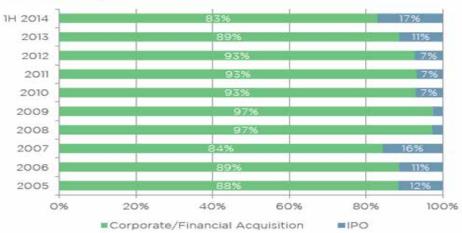


### Venture Capital – Exit Environment

#### VC EXITS BY QUARTER



VC EXITS (#) BY TYPE

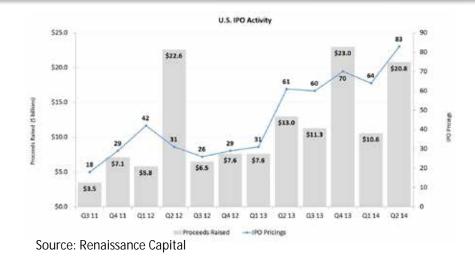


Source: PitchBook



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## Venture Capital – IPO Exit Environment



**Relative Composition of Venture-Backed Exit Activity** 1997-H1 2014 60% 700 Backed Exits (including M&A and IPO s) 52% 600 50% 45% 5.45 500 40% 472 130 400 407 373 30% 27 24% 300 313 20% IPO Exits as % of Vent 16% 200 13% 10% 100 0% 0 1997 2000 2001 2003 2010 141 IIIII Exits (#) -IPO as % of Exits 2014

The U.S. IPO Market hit a 14 year record high in 2Q14 with 83 IPO priced, which raised \$21 billion.

Venture-backed IPO activity extended its streak of 20+ offerings for the 5th consecutive quarter

IPO exits as a percentage of venture-backed exit activity have tracked economic cycles.

- 1999 = 52%
- Increased since recession, but not 90's peak

Source: Thomson Reuters / NVCA



# Venture Capital / Growth Equity – NCRS Strategy

#### Allocation as of <u>6/30/14</u> above policy range

- Expect this to be short term
- Committing more to other strategies
- Ø Do not force VC
  - Access to best managers is critical
  - Maintain relationships as warranted with consistent participation
  - Commitments will be lumpy by vintage year due to a small number of expected relationships
- Growth Equity allocation 7.5% as of 6/30/14
  - Similar strategy as VC
  - Allocation expected to grow over time at the expense of VC

VC + Growth Equity Portfolio Weight					
	Policy Range Actual				
Strategy	MIN	TARGET	MAX	(FMV)	
Growth/Venture	10%	20%	30%	32.01%	



### **Special Situations - Secondary Market**

#### NCRS Strategy:

Separate Account – preferred economics Manager utilizing structured transactions – risk mitigation

#### Benefits:

J-Curve mitigant Less "blind pool" risk Accelerated Investment Exposure (cash flow)

120% 109% 110% 100% 1045 1015 100% (VAN) 91% 877 868 90% the (North 5.45 80% 8294 7476 79% 701 73% 73% 70% Real Estate 601 -84-63% 59% A.P. Strategies 500 40% 2007 2005 2009 2010 2011 2012 2013 H1 2014

#### Pricing across all strategies continues to rise

Secondary volume is on track to surpass 2013 record LP reasons for sale:

- opportunistic sellers
- focus on high conviction managers
- Regulations Volcker Rule, Basel III, Solvency II



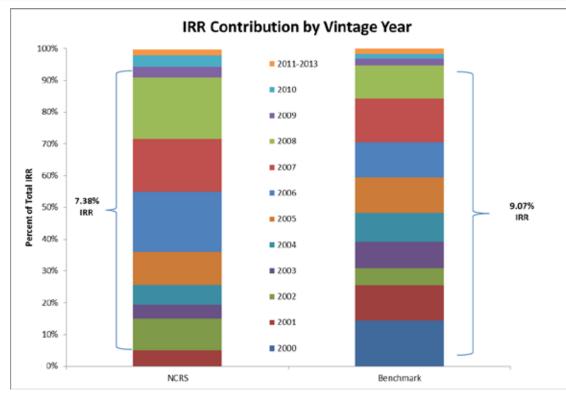
#### Pricing Trends

#### Source: Cogent Partners



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# Performance Attribution by Vintage Year



- **Ø** Thus far, vintage years 2011-2013 have had limited impact on returns for both NCRS and the benchmark
- Vintage years 2005-2008 account for approximately 65% of NCRS returns, which is meaningfully greater than the Benchmark
- Ø Vintage year 2000 has a dramatic impact on the Benchmark
  - Essentially no impact act on NCRS returns

Note: For the purpose of this analysis, vintage years prior to 2000 are excluded, thus the above IRR of **7.38%** does not include the impact of returns generated from these earlier vintage years.

\*as of 3/31/14



## Private Equity Performance (2000-3/31/14)

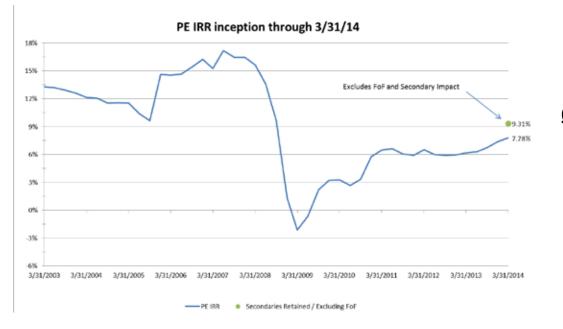
Private Equity Attribution Analysis								
Strategy	NC IRR	NC IRR absent Fund-of-Funds	Contribution to NC IRR (A)	Benchmark IRR	Contribution to Benchmark IRR (B)	Contribution to Active IRR (A – B)		
VC / Growth Equity	8.02	8.02	1.52	6.57	0.55	0.97		
Buyout	6.90	6.90	2.92	12.15	8.43	-5.51		
Special Situations	8.55	8.55	1.15	5.63	0.10	1.05		
Fund-of- Funds	7.11	N/A	1.79	N/A	N/A	1.79		
Total	7.38	7.47	7.38	9.08	9.08	-1.70		

The NCRS Buyout performance was impacted by the secondary sale. Rebuilding the portfolio with these commitments results in a Buyout IRR of 9.35% including commitments from 2000 through 3/31/14.

Note: Performance excludes pre-2000 vintage funds, through 3/31/14



## **Private Equity Performance**

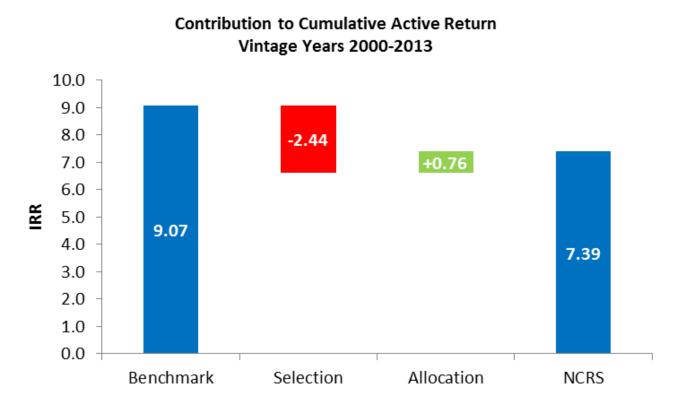


 IRR from inception impacted by 153 basis points on secondary sale and Fund-of-Fund commitments.



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## Performance Attribution by Vintage Year (Cumulative)



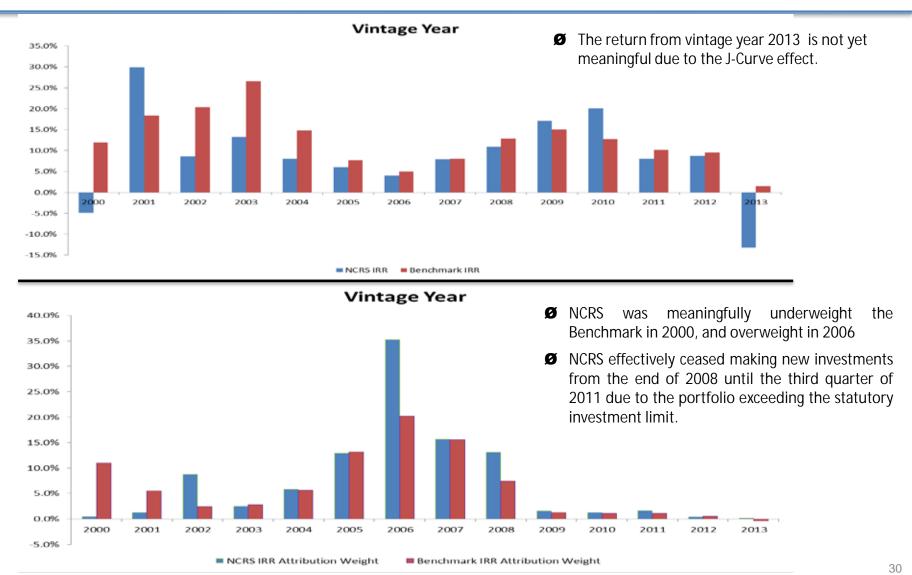
- Selection variance has been the primary discrepancy between the Benchmark returns and the portfolio returns
- Ø 79% of the cumulative difference between the Benchmark and the portfolio return is attributable to Vintage Year 2000 investments

Note: For the purpose of this analysis, Pre-2000 are excluded, thus the cumulative IRR of 7.39% does not include the impact of returns generated from these earlier vintage years.



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## Attribution Weight and IRR

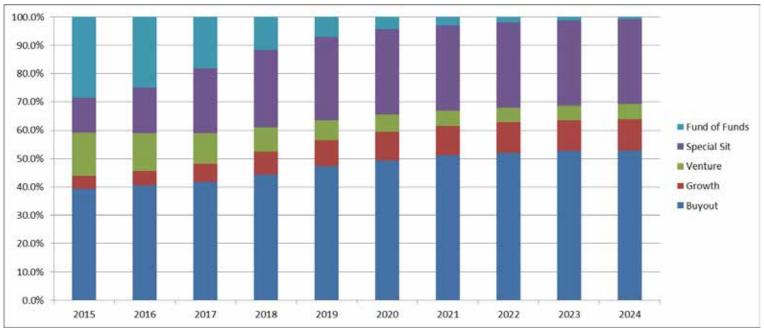




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# Future Portfolio Weighting

Strategy Allocation including Fund-of-Funds

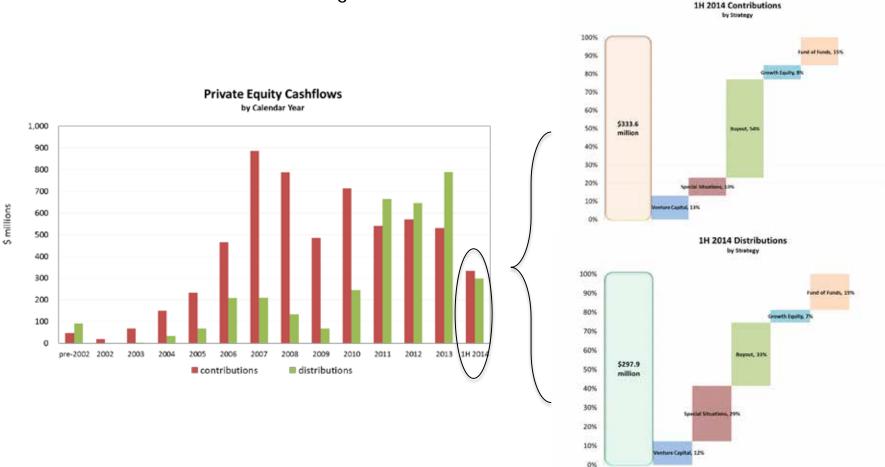


Commitment Pace = \$1.2 billion / year					
Declining	Increasing				
Fund-of-Funds	Special Situations				
VC / Growth Equity	Buyout				



# Private Equity Cash Flow Detail

In 2011, 2012, and 2013, Distributions have exceeded Contributions. 1H 2014 – Contributions outweighed Distributions.





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### **Current Initiatives**

- Staff Expansion / Onboarding
  - Portfolio Manager & Analyst
  - New Positions
- Ø Capital Deployment new commitments of approximately \$1.2 billion per year
  - Target 6.0% allocation over multi-year period
  - Expect to be underweight in coming years as exercise vintage year commitment discipline and cognizant of valuations
- Ø Non-Core Residual Funds / Portfolio Construction
  - Fund "Tail" Analysis
  - Fund-of-Funds restructure / decrease fees
- Solution Fee Monitoring and Review
- Ø Risk Analytics Platform
- Ø Special Programs
  - In-State Program success of the NC Innovation Fund I / Fund II in diligence
  - Small / Emerging Manager Program access to smaller funds efficiently, incorporating co-investment
  - Co-Investment Program cross collaboration with other asset classes
  - Secondary Program cross collaboration with other asset classes





#### **Thank You!**

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