

# Private Equity Portfolio Review

Los Angeles • New York

Prepared for the Rhode Island State Investment Commission

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## Contents

Portfolio Summary

Review of Second Half of 2015 Activity and Performance

Long Term Performance

Portfolio Construction and Exposures

Appendix: First Quarter 2016 Market Outlook

Note: Not all private equity partnerships have reported December 31, 2015 valuations. For those partnerships the report uses estimated market values.

## Overview of Private Equity Portfolio as of December 31, 2015 (estimate)

#### Portfolio Summary Since Inception

Inception Date: December 20, 1982

Total Commitments: \$2.0 billion

**Number of Partnerships** 

Committed: 123 partnerships

Liquidated: 45 partnerships

78 partnerships Active:

Cash Flows (millions)

Commitments: \$1,998

Contributions: \$1,833

Distributions: \$2,200

Unfunded: \$316

Market Value: \$519

#### **ERSRI Private Equity Portfolio Performance** Net of Fees

Since Inception Annualized IRR 13.5%

Total Value to Paid in Capital 1.5x

Mature private equity portfolio that has distributed more than invested

## Cash Flows and Commitments Second Half of 2015 (estimate)

	Commitments (000)	
June 30, 2015		\$1,984,063
Net New Commitments (Closed)	\$20,000 Nautic Partners VIII	\$20,000
Commitment Adjustments		-\$5,681
December 31, 2015		\$1,998,382

Cash Flows (000)		
June 30, 2015 Market Value		\$560,222
Contributions	\$50,789	
Distributions	(\$82,825)	
Gains	(\$9,268)	
December 31, 2015 Market Value		\$518,920

- Committed to 1 fund which closed in 2<sup>nd</sup> half of 2015
- Portfolio experienced investment loss of \$9.3 million
- Portfolio was cash flow positive with distributions exceeding contributions by \$32.0 million

## Since Inception Performance as of December 31, 2015- estimate

Performance	Jun 2015	Dec 2015	Change
Since Inception Annualized IRR	13.7%	13.5%	-0.2%
Total Value to Paid in Capital	1.51x	1.48x	-0.03

Long term performance remains strong

# Commitments to Vintage Year 2015 Funds

Fund	Sector	Strategy	Commitment
Baring Asia Fund VI	Asia Private Equity	Middle Market Buyouts	\$15,000,000
Centerbridge Capital Partners III	US Buyouts	Middle Market Value Buyouts	\$30,000,000
EnCap Energy Fund X	Energy	Upstream	\$25,000,000
Garrison Opportunity IV	Debt	Direct Lending	\$30,000,000
Industry Ventures III - Coinvestment	Venture Capital	Primaries/Secondaries	\$15,000,000
Paine & Partners IV	US Buyouts	Sector Focus: Food and Ag	\$30,000,000
Nautic Partners VIII	US Buyouts	Middle Market Buyouts	\$20,000,000

## Performance Drivers in 2nd Half of 2015 based on Change in Est. Cumulative Gains

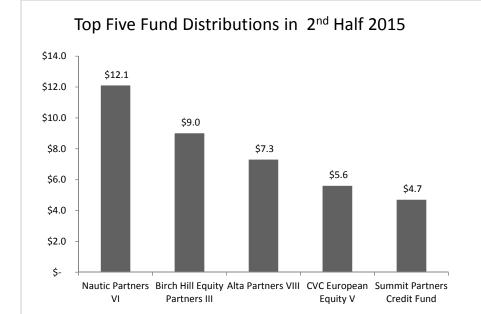
#### Second Half of 2015 Positive Drivers

Partnership	Sector	Vintage Year	Change in Cumulative Gains (millions)
Nautic Partners VI	US Buyouts	2007	\$4.1
Nautic Partners VII	US Buyouts	2014	\$2.4
OCM Europe Principal Fund III	Distressed	2011	\$0.9
Braemer Energy Ventures III	Venture Capital	2011	\$0.9
Riverside Capital Appreciation VII	US Buyouts	2013	\$0.6

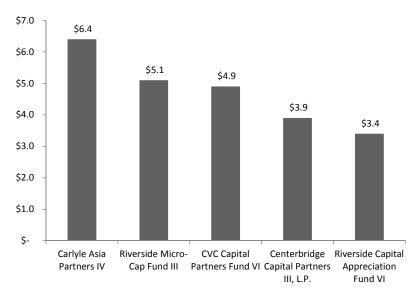
## Second Half of 2015 Disappointing Drivers

Partnership	Sector	Vintage Year	Change in Cumulative Gains (millions)
Birch Hill Equity Partners III	Canadian Buyouts	2005	-\$2.9
MHR Institutional Partners III	Distressed	2006	-\$2.2
Granite Global III	Venture Capital	2006	-\$2.0
First Reserve XI	Energy	2006	-\$1.8
Granite Global II	Venture Capital	20074	-\$1.4

# Partnership Cash Flows during Second Half of 2015



#### Top Five Fund Contributions in 2<sup>nd</sup> Half 2015

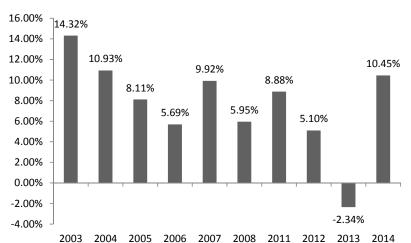


# Long Term Performance Drivers (Vintage Years 2003-2015 excluding liquidated funds/estimate)

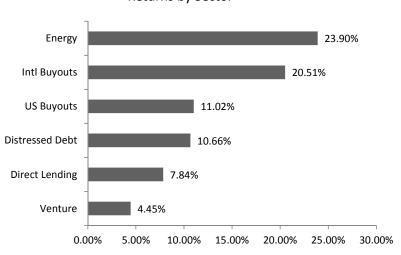
Top Five Performing Partnerships based on Since Inception IRR through December 31, 2015 (est)

Partnership	Sector	Vintage Year	Commitment Amount	Since Inception Annual IRR
Nautic Partners VII	US Buyout	2014	\$20.0	108.7%
CVC European Equity III	European Buyout	2001	\$20.0	41.1%
First Reserve X	Energy	2004	\$20.0	31.1%
Providence Equity Partners IV	US Buyout	2001	\$25.0	23.9%
Nordic Capital Fund V	European Buyout	2003	\$15.9	21.1%

### Returns by Vintage Year



#### **Returns by Sector**

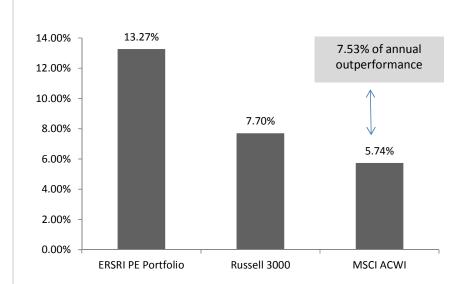


Notes: All returns are since inception annualized IRRs net of fees. For Vintage Year returns, no commitments were made in 2009-10 and 2013-14 returns are too early to be meaningful.

## Relative Performance as of December 31, 2015 (estimate)

### Performance versus Public Equities\*

Since inception annualized internal rate of returns net of fees



### Performance versus Private Equity Universe\*\*

Since inception annualized returns net of fees

	Vintago Yea		Universe Median Return
	199	98 10.87%	8.16%
	199	99 9.97%	0.34%
	200	00 14.75%	3.15%
	200	31.62%	8.49%
Outperformance	200	02 17.87%	9.71%
	200	03 14.32%	9.67%
	200	04 10.93%	8.07%
	200	05 8.11%	7.40%
	200	5.69%	7.35%
Under performance	200	9.92%	9.76%
	200	08 5.95%	9.95%
	20:	11 8.88%	11.27%
Young	20:	12 5.10%	10.36%
investments	20:	-2.34%	4.67%
	20:	14 10.45%	-0.88%

<sup>\*\*</sup> Cambridge Global Private Equity/Venture Capital Universe

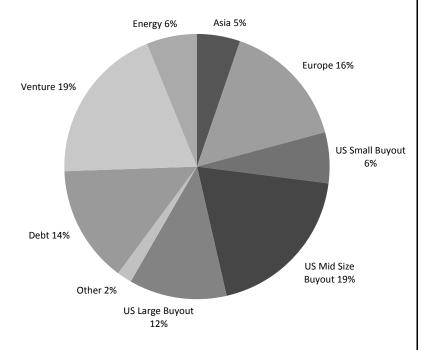


<sup>\*</sup> Public index returns are calculated as private market equivalents where actual PE cash flows are applied to the index return. Note that this a quarterly IRR calculation. The IRR for the portfolio using a daily calculation is 13.5% Index IRRs assume reinvestment in respective index.

## Exposures by Strategy Sector and Vintage Year as of December 31, 2015

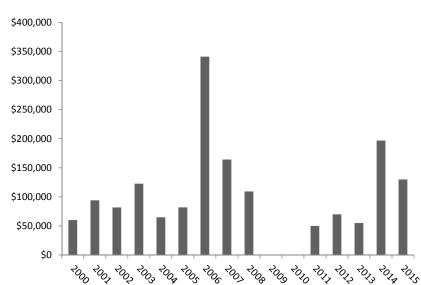
#### Exposure by Fund Sector Strategy

(exposure equals market value plus undrawn capital)



Portfolio is diversified by strategy

# Commitments by Vintage Year In millions of dollars



Some vintage year concentration with large exposure to 2006 and no exposure to 2009/10

## Exposures by Fund and Manager as of December 31, 2015

#### Exposure by Fund

(exposure equals market value plus undrawn capital)

Fund	\$ Exposure	% Exposure
Garrison Opportunity Fund IV, LLC	30,686,237	3.82%
Paine & Partners Capital Fund IV	28,829,077	3.59%
Sorenson Capital Partners III, L.P.	28,234,280	3.52%
Carlyle Asia Partners IV, LP	27,478,665	3.42%
Industry Ventures Partnership Holdings III, LP	25,874,516	3.22%

Portfolio is diversified by fund with largest exposure less than 4% of total

Larger fund exposures are represented by newer commitments that have yet to reach distribution stage

#### **Exposure by Manager**

(exposure equals market value plus undrawn capital)

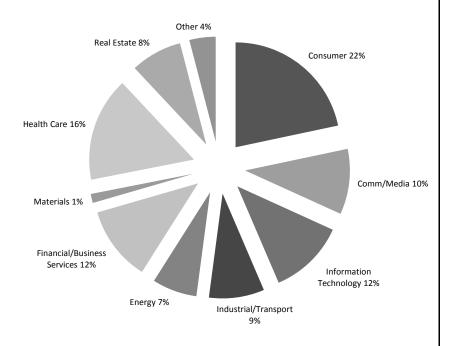
Firm	\$ Exposure	% Exposure
Nautic Partners	59,453,268	7.40%
Centerbridge Capital Partners	55,546,227	6.92%
Providence Equity Partners	48,519,951	6.04%
Nordic Capital	46,552,680	5.80%
EnCap Energy Capital	42,771,143	5.33%

Portfolio is diversified by manager with largest exposure at 7.4% of total

Larger manager exposures represent managers who have performed well and commitments have been made to multiple funds over time

## Exposures by Industry and Company as of September 30, 2015

# Exposure by Industry Based on market value

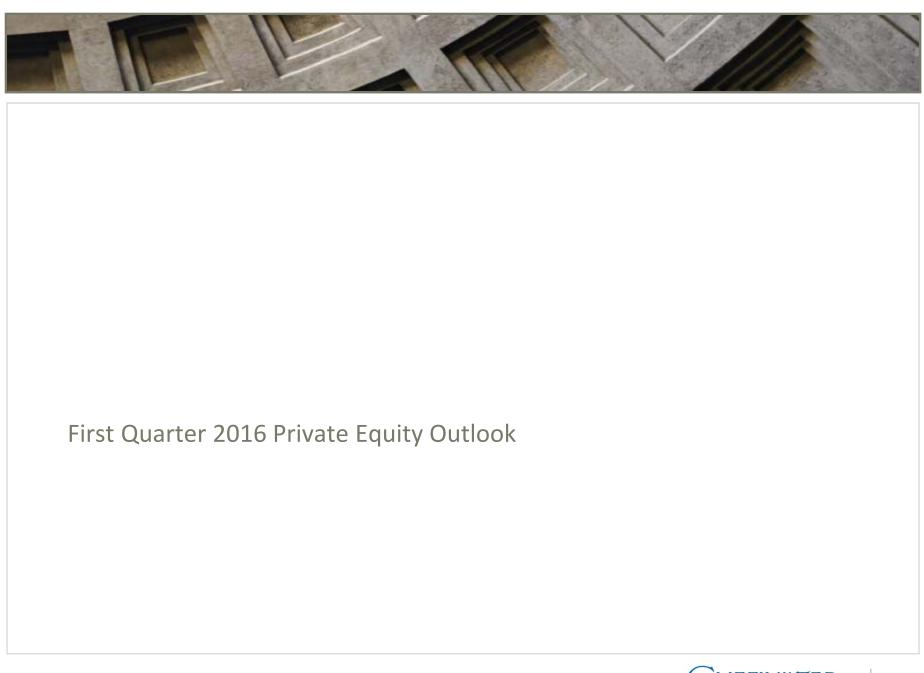


Portfolio is diversified by industry

### **Examples of Largest Company Holdings**

Company	Sector	Partnership
Griffin Holdings	Real Estate	Oaktree European Principal Fund III
Sleep Country Canada	Consumer	Birch Hill Equity Partners III
Lionsgate	Comm/Media	MHR Institutional Partners III
Veracode	Information Technology	Point 406 Ventures I
ConvaTec Group	Health Care	Nordic Capital Fund VII
Shred-it International	Business Services	Birch Hill Equity Partners III
Tate's Holding	Consumer	Riverside Micro-Cap Fund III
ConvaTec Group	Health Care	Nordic Capital Fund VII
Esperion Therapeutics	Health Care	Alta Partners VIII
CradlePoint Inc	Information Technology	Sorenson Capital III

Portfolio consists of over 950 companies with no company larger than 2% of total market value

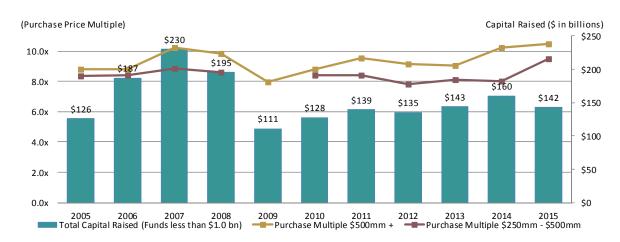


## Private Assets Outlook – Investment Environment is Becoming More Attractive

U.S. Large Buyout	Company pricing remains high given the availability of equity capital.	Neutral
U.S. Mid/Small Buyout	A low equity capital overhang compared to historical levels is leading expectations of more attractive deal pricing.	Positive
Distressed	Increasing high yield spreads suggest the beginning of a distressed cycle.	Positive
Private Debt	Market volatility has created greater opportunities for private lenders to drive terms.	Positive
Venture	High-quality firms are actively fundraising, though exit opportunities remain limited.	Neutral
Europe	Weaker growth expectations relative to the U.S. is expected to drive purchase multiples lower than domestic companies.	Neutral
Asia	Slowing growth in China has reinforced the need for investment selectivity by managers and the potential to employ distressed or turnaround strategies.	Negative
Latin America	Weakness in Brazil may create lower company prices. Attractive opportunities remain in Colombia, Peru, Mexico, and Chile, driven by domestic consumption.	Neutral
Energy	Managers without adequate reserves are showing signs of distress.	Positive
Infrastructure	Buying opportunities are increasing as large companies divest of assets.	Neutral
Agriculture & Timber	Land prices are declining in certain regions.	Neutral
Real Estate – Equity	Forecasts of interest rates and cap rate normalization are offset by demand and supply equilibrium in most markets.	Neutral
Real Estate – Debt	Limited financing is available for development and transitional properties despite strong property cash flows and occupancies.	Positive

## High Quality Small and Middle Market Funds Perform Favorably

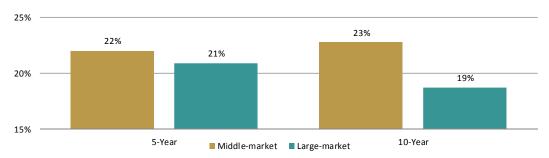
#### U.S. Middle Market Deal Pricing and Fundraising



Source: Pitchbook. S&P LCD

 $Note: The \ 2009 \ sample \ size for \ \$250mm \ to \ \$500mm \ S\&P \ LCS \ purchase \ price \ data \ was \ not \ large \ enough \ for \ a \ complete \ dataset.$ 

#### U.S. Middle & Large-Market Above-Median Performance



 $Source: Cambridge \ U.S.\ buyout\ benchmarks\ as\ of\ 6/30/2015; funds\ ranking\ within\ the\ first\ or\ second\ quartile.$ Note: Large-market defined as fund size above \$1.0 billion; Middle-market defined as fund size below \$1.0 billion.

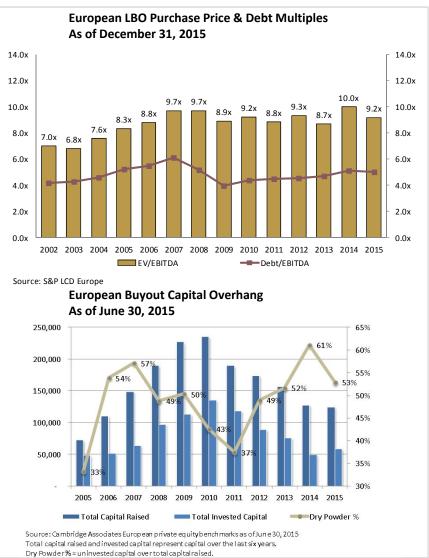
# Buyout Fundraising Expected to Slow by Summer 2016

Sector Focused				
Arbor (1Q 2016)	<ul> <li>Food, beverage and distribution companies</li> <li>Stable team, limited competition</li> </ul>			
Thoma Bravo XII (current)	<ul> <li>Software focused buyouts</li> <li>Strong net performance consistently at or above 20% net IRR</li> </ul>			
Vista VI (current)	<ul><li>Software focused buyouts</li><li>Low loss ratio</li></ul>			
Vista Foundation Fund III (current)	<ul> <li>Lower middle-market software focused buyouts</li> <li>Strong performance relative to private equity benchmarks</li> </ul>			

Diversified	
Green Equity VII (current)	<ul><li>Consumer and diversified fund</li><li>Stable team, consistent performance</li></ul>
OnCap (1H16)	<ul> <li>Diversified small-cap U.S. and Canada</li> <li>Stable team, performance ranking above the first quartile across three prior funds</li> </ul>
Parthenon (current)	<ul> <li>Diversified across business services, financial services, and healthcare</li> <li>Recent strong sales</li> </ul>
Kinderhook (2Q16)	<ul><li>Diversified small-cap buyouts</li><li>High performing winners</li></ul>

## More Attractive Pricing Exists in European Mid-Market and Smaller Buyouts

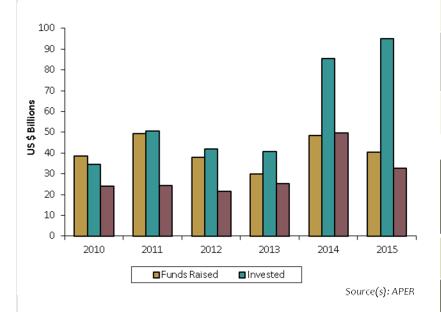
Greater investment opportunity in 2016 with established pan-European managers		
Groupe Alpha VII (current)	<ul> <li>Mid-market deals in France, Italy, Benelux and German-speaking Europe</li> <li>All prior funds first or second quartile</li> <li>22-year investment history</li> </ul>	
Permira VI (February 2016)	<ul> <li>Prior 5 funds first or second quartile, with since inception TVPI of 1.6x and net IRR of 23%</li> <li>Large investment team of 87 professionals</li> </ul>	
Summit Europe II (2Q 2016)	<ul> <li>Fund I had three strong liquidity events</li> <li>The team has been investing out of Europe since 2001</li> </ul>	
High qualit	y regional funds will be in market during 1H 2016	
Bencis V (April 2016)	<ul> <li>Lower mid-market investor in Netherlands and Belgium with 15 year history</li> <li>Strong overall track record</li> <li>Stable transaction sizes in past few funds</li> </ul>	
DBAG VII (April 2016)	<ul> <li>Germany focus. Large team with long tenure</li> <li>Control investments in industrial companies</li> <li>Net IRR consistently above 20%</li> </ul>	
Gilde Healthcare IV (current)	<ul> <li>Growth capital focused on healthcare companies in the Benelux and in U.S.</li> <li>&gt;2.0x gross return in prior two funds</li> <li>Over 15-year investment history</li> </ul>	
FSN V (April 2016)	<ul> <li>Nordic mid-market firm established in 1999, with a 21-person investment team</li> <li>Fund I MOIC 3.2x, Fund II MOIC 2.5 and Fund III MOIC 1.9x. Fund IV is valued at 1.2x</li> <li>Blue-chip LP base</li> </ul>	





## China Slowdown and Volatility Underscores Importance of Regional Diversification





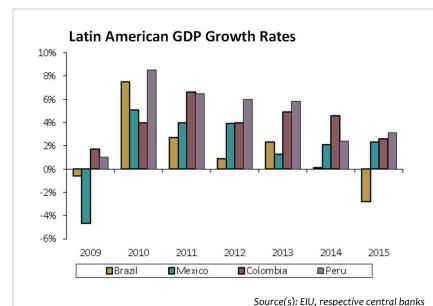
Fund sizes continue to increase dramatically and valuations pressures remain high for trophy assets in key jurisdictions such as China, Korea, Japan, Australia and India

Cobalt Equity Partners (1H 2016)	<ul> <li>Focus on industrial and healthcare investments across         Asia, with an emphasis on more mature geographies</li> <li>Core team from GE's Asia Pacific investment group</li> </ul>
Carlyle Asia Partners V (2H 2016)	<ul> <li>Pan-regional buyouts and growth capital investments</li> <li>Consistent performance and steady exit pace</li> <li>Top China team with strong regional coverage</li> </ul>
MBK IV (1H 2016)	<ul><li>Focus on Korea, China, and Japan</li><li>Strong franchise and deal flow in Korea</li></ul>

In a period dominated by a slowing Chinese economy, regional public market volatility, and low commodity prices, investors need to target pockets of growth such as tech, media and healthcare or structural opportunities such as corporate spinouts and succession-driven asset sales

CMC Capital II (current)	<ul> <li>Focused on media and Internet related opportunities</li> <li>Firm founded by one of China's top media executives</li> </ul>
Banyan Capital III (2H 2016)	<ul> <li>Early-stage and expansion-stage venture capital in China</li> <li>Spinout of top junior partners from IDG Capital</li> </ul>
Shoreline China Value IV (1H 2016)	<ul> <li>Distressed debt and structured capital investments in China</li> <li>Unique emphasis and expertise in NPL portfolios</li> </ul>

## Brazil's Current Issues Present Long-Term Opportunities for Investors

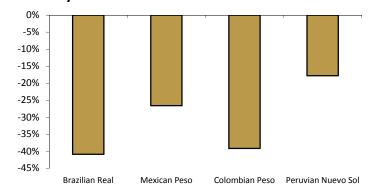


Cliffwater maintains its focus on top-tier pan-regional funds in Latin America due to country-level macroeconomic, political, and currency risks. The ability to dynamically allocate capital across the region remains a key risk management tool

Victoria South America III (2H 2016 / 1H 2017)

- Former DLJ Merchant Banking platform
- Strong reputation as conservative and disciplined investors
- Outperformance in Fund I, strong early results in Fund II

**Currency Devaluations from January 2014 to January 2016** 



Source(s): Bloomberg, Yahoo! Finance, XE.com

(2017/2018)

Patria VI

Country or sub-regional funds should be added to investor portfolios on an opportunistic basis, with a focus on differentiated exposures along deal sizes and sectors and unique sourcing angles

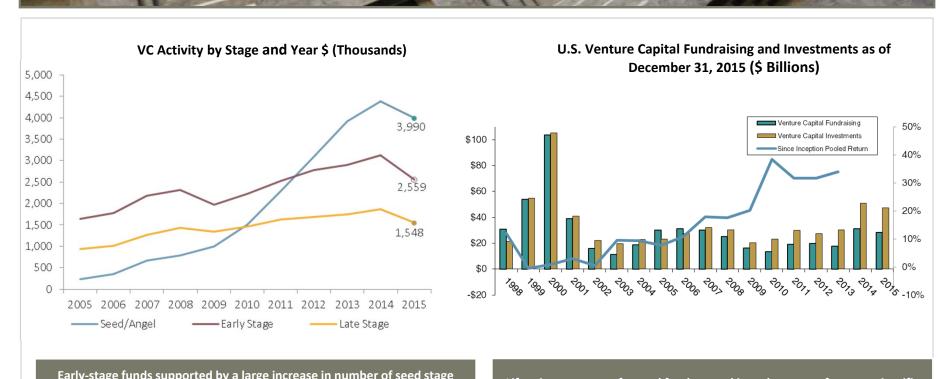
Nexxus VII (2H 2016)

- Extensive track record in Mexico across multiple economic cycles
- Focus on family-owned businesses and platform investments

 Large-cap Brazil fund with strong control orientation and emphasis on deep operating value-add

Strong performance across four mature funds

## Venture Capital Fundraising, Investing, and Exits Slowed in Late 2015



investors in the past five years. Funds are less impacted by higher VC valuations	
Lightspeed XI	<ul> <li>Thematic-based early stage technology investor</li> <li>Strong track record developed by deep and experienced team</li> </ul>
Spark Capital V	<ul> <li>Early stage technology with emphasis on consumer Internet deals</li> <li>Strong track record and experienced team. Investments include Twitter, Oculus, and Tumblr.</li> </ul>

Life science venture focused funds are taking advantage of strong scientific innovations and accommodative public markets.

The Column Group III

• Focused on formation of early stage biotech companies based on firm research and network
• Strong scientific and operating team led by former Chief Scientist at Genentech

Third Rock IV

• Early stage life science company investments and company creation
• Strong and broad-based track record

Source: National Venture Capital Association, Cambridge Associates

## Decline in Loan Issuance and Sector Distress Creates Opportunities

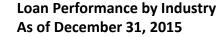
Underperforming sectors such as energy and metals & mining create opportunities for distressed managers

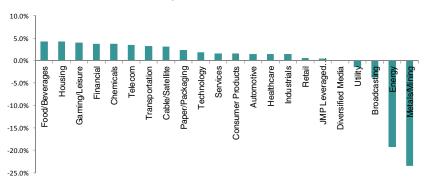
Centerbridge	
<b>Special Credit</b>	Ш
(current)	

- Non-control investments in distressed securities and undervalued credits globally.
- Strong market positioning and unique strategy

OHA Strategic Credit II (current)

- Distressed corporate, structured products, real estate, and hard assets
- Energy and Metals & Mining are among the sectors of focus for the fund





# Historical trends and the current market environment indicate a near term distressed cycle

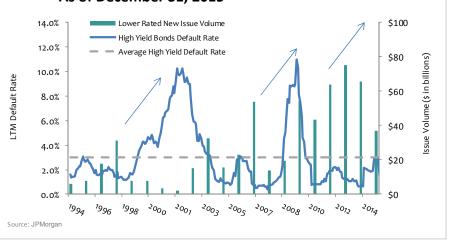
# Anchorage Illiquid Opportunities Fund IV (current)

- Illiquid distressed and special situation credit investments globally
- Established platform and strong performance

Alchemy Special Opportunities Fund IV (4Q 2016)

- Debt-for-control investments in the European lower middle market
- Strong and consistent performance

# High Yield Default Rate & Lower Rated Issue Volume As of December 31, 2015



## Market Volatility and Outflows of High Yield Bonds Creates Opportunities

Outflows of capital from the U.S. High Yield market and overall market volatility creates opportunities for lenders to drive more attractive terms and pricing

# Crescent Capital BDC (current)

- Primary originations of debt across the capital structure with a senior secured focus
- Experienced credit manager and opportunity for incremental return through advisor economics

# Golub Capital Partners X (current)

- Directly originate loans to private equity sponsored
   U.S. middle market companies
- Consistent performance and large market presence

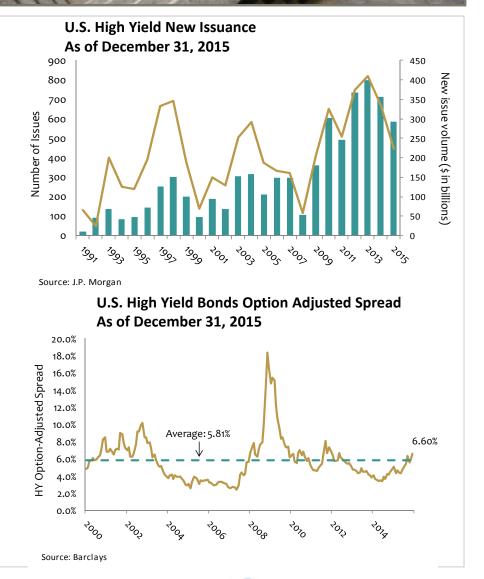
Differentiated strategies providing current income with a focus on downside protection are compelling in the current environment

#### Atalaya Asset Income Fund III (1H 2016)

- Origination of loans backed by financial assets and purchases of portfolios of short duration performing loans
- Unique sourcing model and rapid return of capital

#### Athyrium Opportunities Fund III (3Q 2016)

- Structured debt, royalty and equity investments in life science companies
- Strong track record and unique strategy



## Private Energy Transactions Reach 10 Year Low; Private Equity is Primary Source of Capital

- Energy transactions during 2015 reached lows with the 10 largest deals accounted for almost 50% of 2015 total
  activity. Continued weak commodity pricing, expiring hedge positions, and further bank pressure will create
  more pressure on cash flow and illiquidity.
- Companies who's debt is trading below 50 are likely bankruptcy and restructuring candidates, companies who's debt is trading between 50 and 70 are actively seeking alternative sources of capital. ~60% of public energy companies are reaching some level of distress.
- Debt markets for energy companies are shut down, investments in private energy credit can provide a high risk adjusted opportunity.

