### THE CARLYLE GROUP

GLOBAL ALTERNATIVE ASSET MANAGEMENT

### **Credit Suisse Financial Services Forum**

David Rubenstein, Co-Founder and Co-Executive Chairman

February 13, 2018

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This presentation includes comparisons of certain private equity indices to various indexes including certain MSCI indexes (MSCI) and the S&P 500 and other indexes. The private equity indices do not represent the performance of any Fund or family of Funds. Recipients should not infer that any Fund is top quartile. There are significant differences between the types of securities and assets typically acquired by U.S. and global buyout funds, the investments covered by the MSCI, S&P 500 and other indexes. Specifically, U,S. and global buyout funds typically make investments in securities and other assets that have a greater degree of risk and volatility, and less liquidity, than those securities included in these indexes are not subject to certain of the management fees, carried interest or expenses to which investors in U.S. and global buyout funds are typically subject. Comparisons between private equity funds, Carlyle sponsored funds, the MSCI, S&P 500 and other indexes are included for informational purposes only.

Detailed information about Carlyle's management fees and performance fees is available in Carlyle's public filings. Please note that certain metrics and projections contained in this Presentation include the Legacy Energy Funds and funds advised by NGP Energy Capital Management. Please note that the Legacy Energy Funds (as defined in Carlyle's public filings), are managed with Riverstone Holdings LLC and its affiliates. Affiliates of both Carlyle and Riverstone act as investment advisers to each of the Legacy Energy Funds. Currently, Carlyle is only entitled to carried interest and management fees in certain funds advised by NGP Energy Capital Management. The NGP Energy Capital Management. The NGP Energy Capital Management funds which solely earn management fees are referred to herein as "NGP management fee funds." This presentation includes comparisons to certain private equity returns to MSCI World Index and other indexes and such comparisons are provided for informational purposes only. The private equity returns do not represent the performance of any Fund or family of Funds. Recipients should not infer that any Fund is top quartile. There are significant differences between the types of securities and assets typically acquired by U.S. and global buyout funds, the investments covered by the indexes.

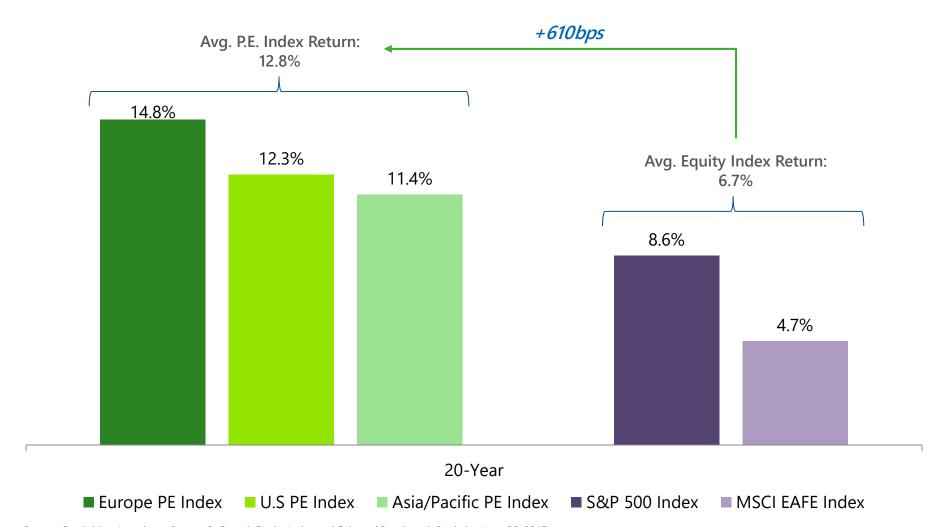
For purposes of the non-financial operating and statistical data included in this presentation, including the aggregation of our non-U.S. dollar denominated investment funds, foreign currencies have been converted to U.S. dollars at the spot rate as of the last trading day of the reporting period when presenting period end balances, and the average rate for the period has been utilized when presenting activity during such period. With respect to capital commitments raised in foreign currencies, the conversion to U.S. dollars is based on the exchange rate as of the date of closing of such capital commitment. This presentation includes certain Non-GAAP financial measures, including Distributable Earnings ("DE") and not as supplemental to, and not as supplemental to, and not as supplemental measures prepared in accordance with GAAP. Please refer to the Appendix of this presentation for a reconciliation of the non-GAAP financial measures included in this presentation to the most directly comparable financial measured prepared in accordance with GAAP. Please see Carlyle's public filings for the definition of "carry funds," "Fee-earning assets under management" or "Fee-earning AUM," (FEAUM), and "Assets under management" or "AUM."

For purposes of the non-financial operating and statistical data included in this presentation, including the aggregation of our non-U.S. dollar denominated, investment funds, foreign currencies have been converted to U.S. dollars at the spot rate as of the last trading day of the reporting period and the average spot rate for the period has been utilized when presenting multiple periods. With respect to capital commitments raised in foreign currencies, the conversion to U.S. dollars is based on the exchange rate as of the date of closing of such capital commitment. This presentation includes certain Non-GAAP financial measures, including Economic Net Income (ENI) and Distributable Earnings (DE). These Non-GAAP financial measures should be considered only as supplemental to, and not as superior to, financial measures prepared in accordance with GAAP.

# OBSERVATIONS ON THE ALTERNATIVE INVESTMENT ENVIRONMENT

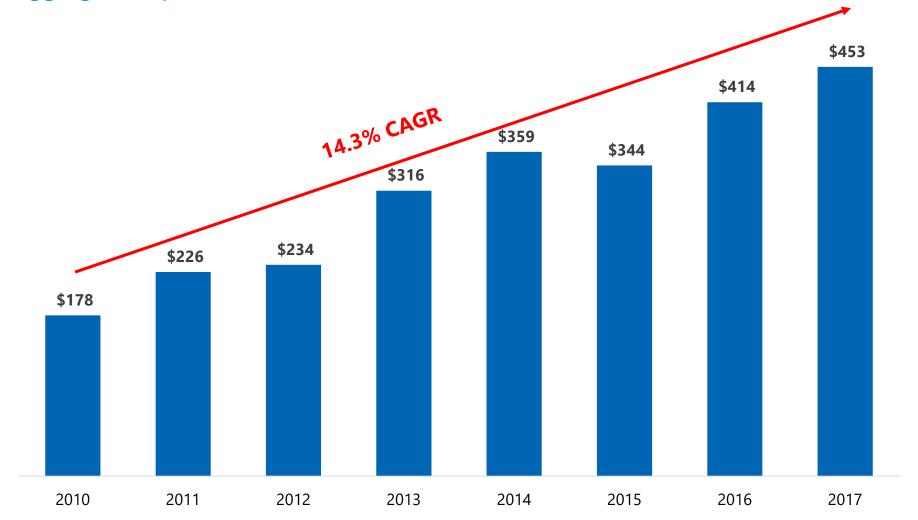
## The Main Driver Of Private Equity's Success Is The Significant Outperformance Gap Between PE & Other Investments

Global Buyout & Growth Equity vs. Public Market Equivalent – Net IRR



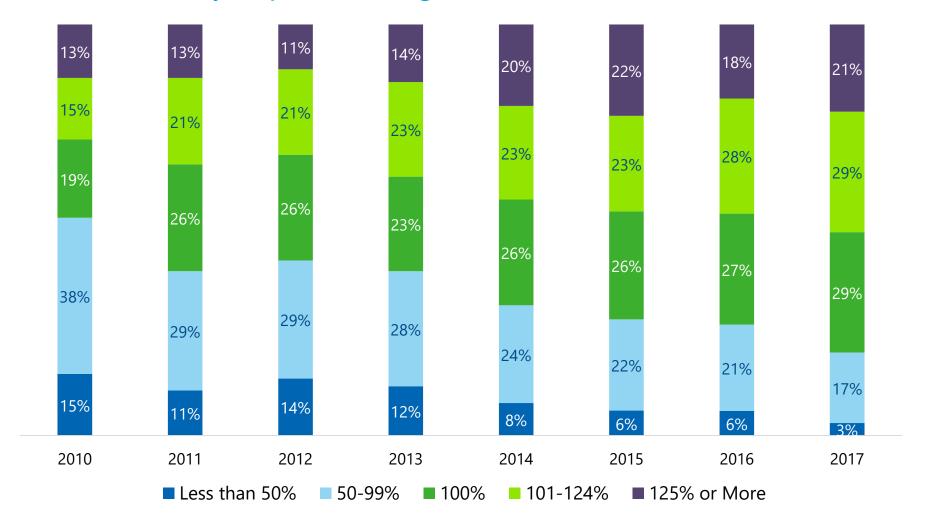
### **Attractive Investment Performance Supports Fundraising Momentum**

### **Aggregate Capital Raised (\$US in billions)**



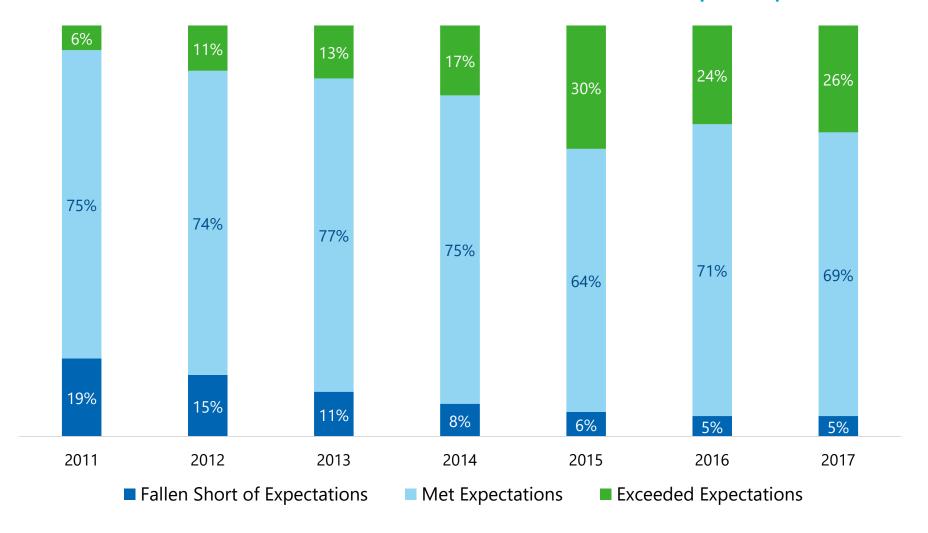
### And GPs are Experiencing Greater Success With Each Fund...

### PE Funds Closed by Proportion of Target Size Achieved



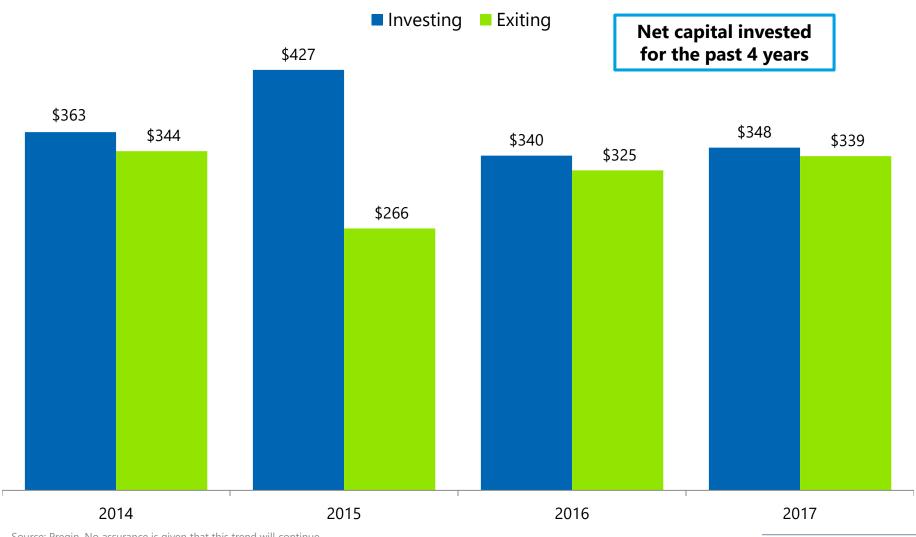
### ...As Limited Partners Expectations Are Largely Met or Exceeded

### LPs Views on Whether Their PE Fund Investments Have Lived Up to Expectation



### Realizations Have Continued to Drive Fundraising

### Global Private Equity Deal Volume (\$US in billions)



Source: Preqin. No assurance is given that this trend will continue. Note: 2015 figures exclude Dell-EMC and Kraft-Heinz deals.

### And U.S. Pensions are Eager for the Highest Returns

Total assets and liability gaps in US pensions, 2015–16, \$ billion

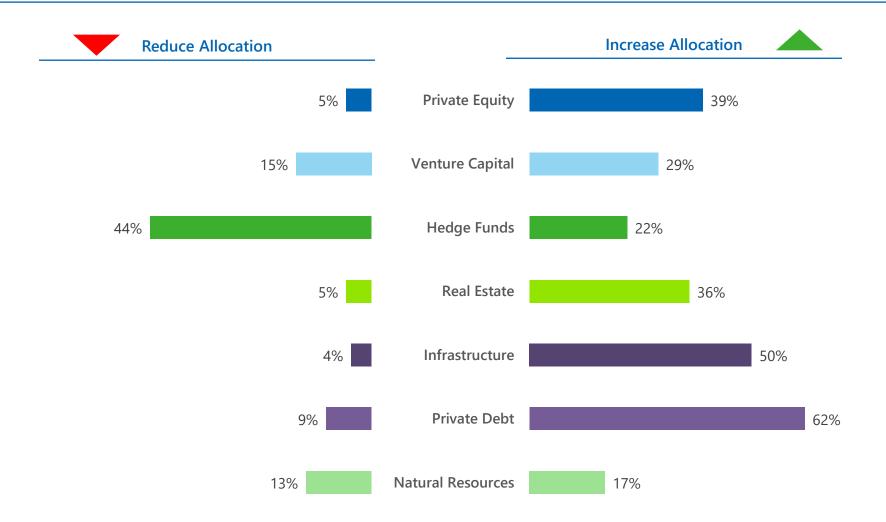
	2015 Assets Li	iability Gap	2016 Assets Liabi	lity Gap	Funded Ratio 2016 (%)	Liability Gap CAGR, 2015 – '16			
Total	7,986	4,150	8,187	4,276	66%	3%			
State and Local	3,664 1,832		3,818 <b>1</b> ,879		67%	3%			
Federal	<mark>1,512</mark> — 1,822		<b>1,515</b> — <b>1,890</b>		44%	4%			
Private	2,810 497		2,855 — 507		85%	2%			

The Big Question: Where will the money be put to work?

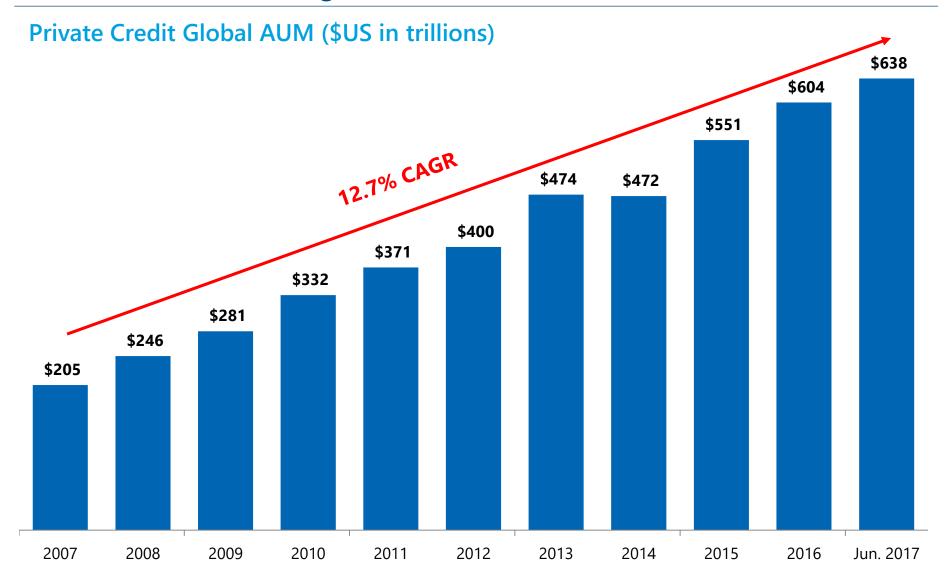
Private capital is gaining market share at the expense of public equity.

### **Growth in New Commitments is Expected to Continue**

### Survey Results: Institutional Investors' Plans For the Longer Term

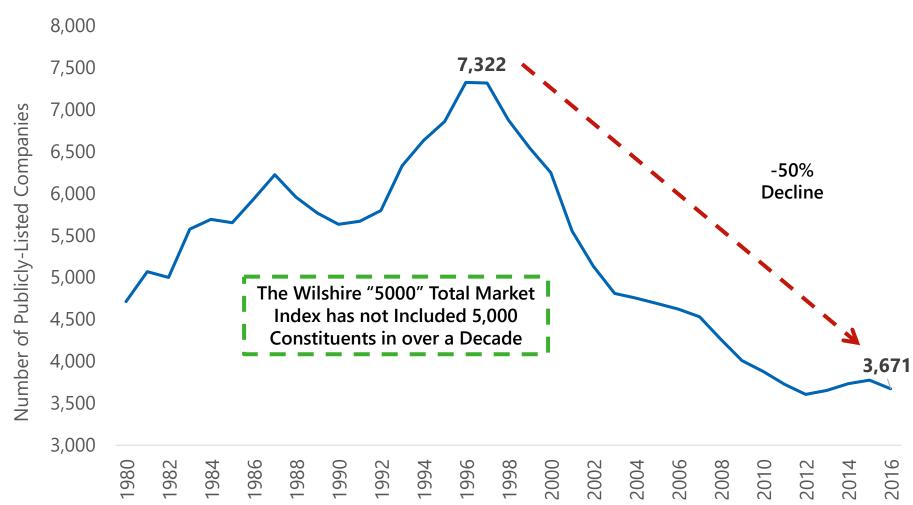


### **Private Credit is Booming**



### The Role of Private Capital is Shifting

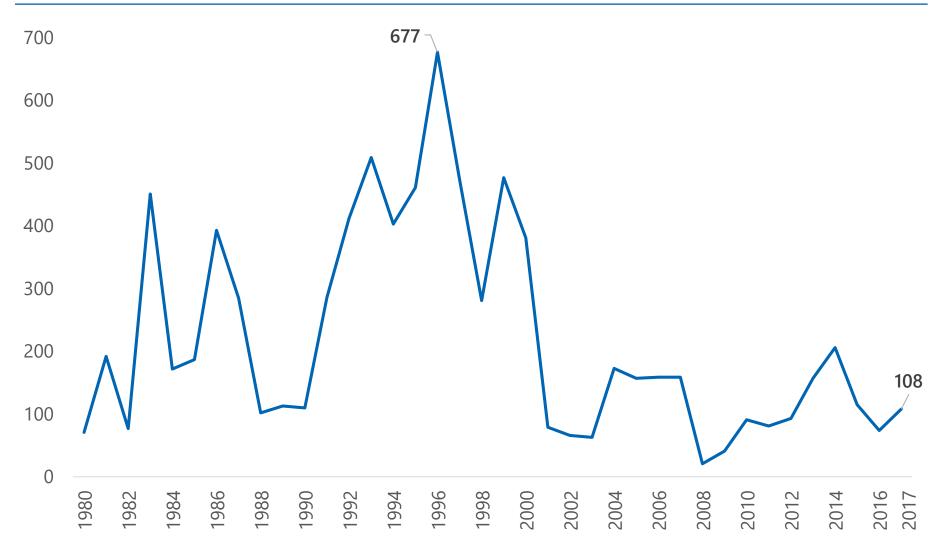
Over the Last 20 Years, the Number of Publicly Listed Companies in the U.S. has Fallen by 50%



Source: Mauboussin, Michael J., Dan Callahan, CFA, and Darius Majd. The Incredible Shrinking Universe of Stocks: The Causes and Consequences of Fewer US Equities. Report. Global Financial Strategies, Credit Suisse. March 22, 2017; There is no guarantee these trends will continue.

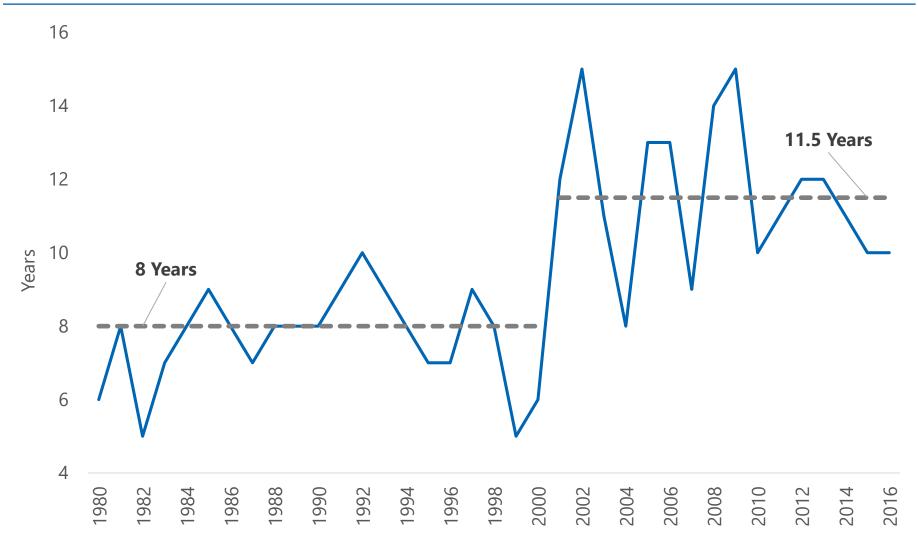
### IPOs No Longer Necessary to Fund Growth or Access Liquidity

#### **Number of US IPOs**

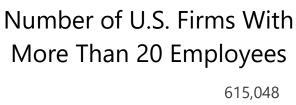


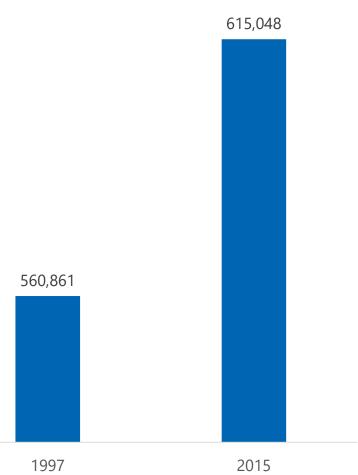
## And Companies Stay Private Much Longer (44% Increase in Median Company Age at the Time of IPO)

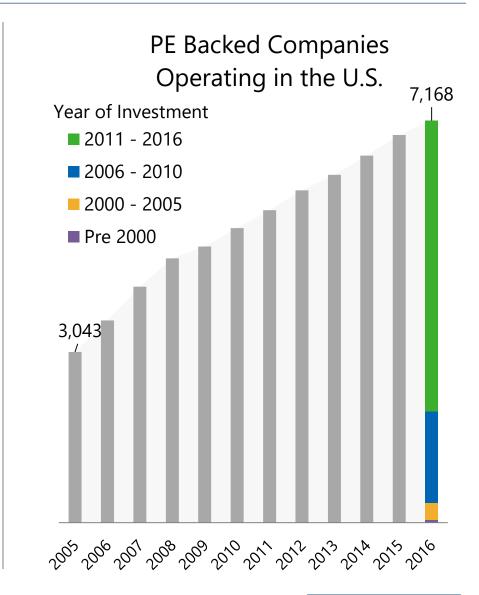
### Median Average Age at IPO for U.S. Companies



### **But The Total Number Of Companies Continues To Grow**







## What does all this mean for the industry going forward?

This is still a growth industry.

### Why The Industry Will Continue to Grow

 Investor Expectations Have Come Down – More Interested in Private Equity Than Ever Before

Global AUM: 2000: \$0.6tn Q1 2017: \$2.7tn Change: +350%

- 2) Private Equity Firms Add Economic Value
  - Success is Not Dependent on Leverage
  - Industry Experts Have Joined Private Equity Firms as Operating Executives & Advisors

3) The Level of **Private Credit Investments Will Grow** to Equal the Level of Private Equity Investments

### Why The Industry Will Continue to Grow (cont.)

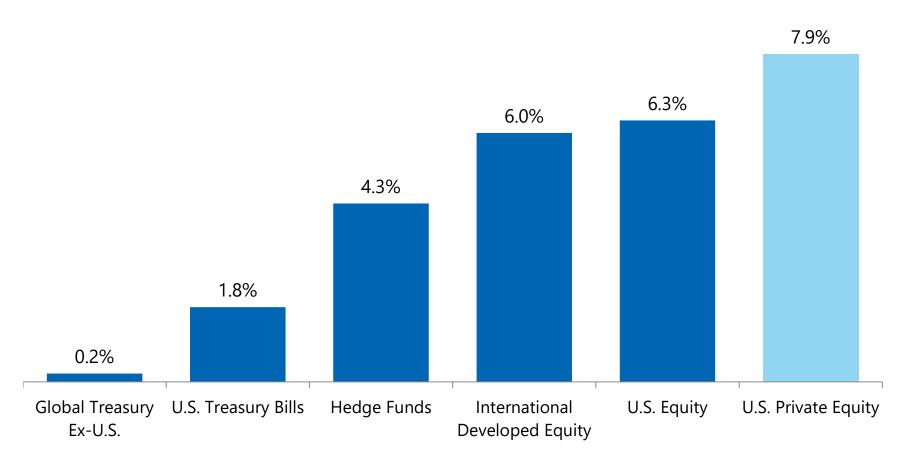
- 4) Emerging Market Development Will Provide Increasing Investment Opportunities
  - Since 2008, PE Firms Have Raised \$300bn+ for Investment in the Emerging Markets

5) Longer Term Funds Will Grow at a Significant Rate; More Permanent Capital Will be Sought & Secured by Private Equity Firms

- 6) PE is Widely Accepted as an Asset Class
  - Institutions Willing to Market / Sell PE Funds

## Investors are Continuing to Deploy Capital to the Asset Class With the Highest Expected Return

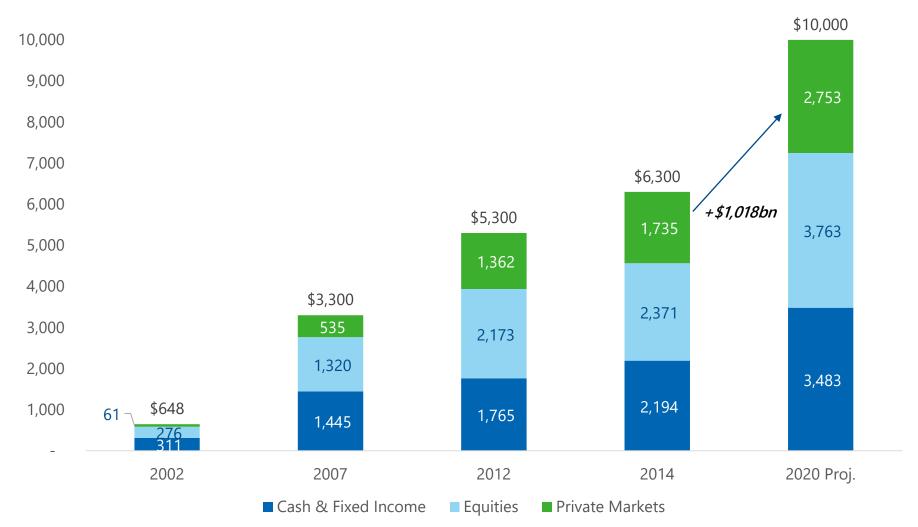
Hypothetical 10-Year Average Expected Returns (2017 – 2026)



Source: BNY Mellon, 2017 10-Year Capital Market Return Assumptions. Presented for illustrative purposes only. Hypothetical returns represent estimates of likely average returns over the next 10 years. They do not represent the returns that an investor should expect in any particular year. Capital Market Assumptions (CMAs) are estimates for expected risk and return for a given set of investment opportunities (asset classes). CMAs also consist of expectations of the relationship between these asset classes (correlations). There is no guarantee these trends will continue or these projections will materialize.

### Sovereign Wealth Funds are Growing Their Allocations...

SWF Asset Allocation Overview, 2002 – 2020 Estimate (\$US in billions)



### ...Yet They are Still Largely Underpenetrated Limited Partners

AUM (USD bn) \$1,820	Current Alternative Allocation 0.10%		
\$1,820	0.10%		
	1		
\$1,420	0.10%		
\$1,034	2.5%		
\$478	5.0%		
\$462	11.0%		
	\$1,420 \$1,034 \$478		

### **LPs with Developed Alternative Platforms**

Canada Pension Plan <sup>6</sup>	Canada	\$253	42%			
Texas Teachers <sup>7</sup>	United States	\$138	32%			
PGGM <sup>8</sup>	Netherlands	\$226	21%			
CalPERS <sup>9</sup>	United States	\$295	20%			

- Pension & Investments, Japan Post Bank starts turn to alts, Published: March 20, 2017
- GPIF Investment Results as of 2Q 2017
- Norges Bank Investment Management Quarterly Report, 3Q 2017; alternative allocation represents unlisted real estate
- HKMA 2016 Annual Report, as of December 31, 2016
- Pension & Investments, South Korea's NPS relocation may hinder investment plans, Published: February 28, 2017, Allocation as of November 30, 2016.

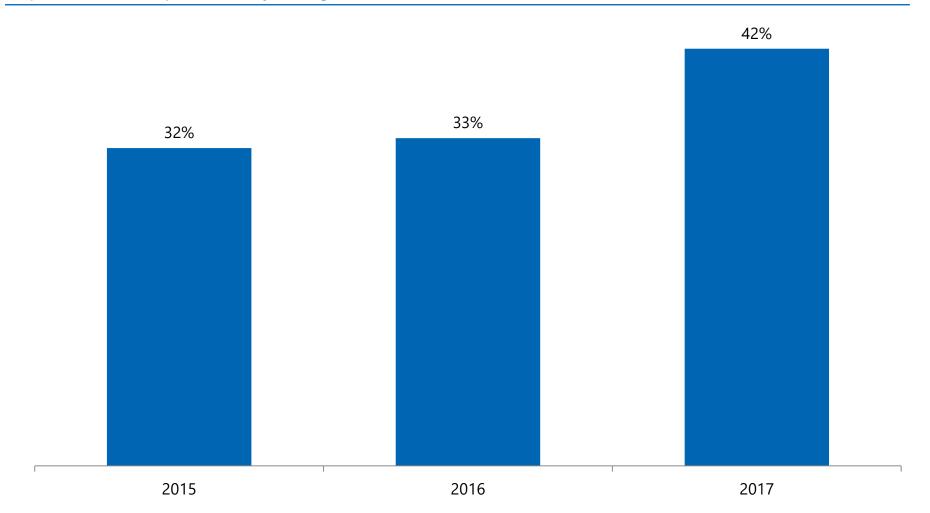
As of June 30, 2016 - calpers.ca.gov Asset Allocation & Performance. Includes Private Equity, Real Estate, Forestland and Infrastructure.

- CPPIB 2017 Annual Report
- Private Markets The Texas Way (2017). Represents private markets allocation, as of 12/31/2016
- PGGM Annual report, as of 12/31/2016. Represents private markets allocation.

THE CARLYLE GROUP

### The Beneficiaries are the Largest Global Firms and Funds

### Proportion of Total Capital Raised by 20 Largest Funds



## WHY CARLYLE IS WELL POSITIONED

### Carlyle Is A Leading Global Alternative Asset Manager

### THE CARLYLE GROUP

Total AUM: \$195 bn Fee-Earning AUM: \$125 bn Available Capital: \$70 bn

2017 Results 

\$3.47 ENI per common unit 

\$1.41 distribution per common unit

## **Corporate Private Equity**

### \$73 bn AUM \$30 bn Available Capital

- Buyout
- Growth

27% Realized / Partially Realized Gross IRR

## Real Assets<sup>1</sup>

### \$43 bn AUM

\$16 bn Available Capital

- Real Estate
- Energy
- Power
- Infrastructure

16% Realized /
Partially Realized
Gross IRR

## **Global Credit**

### **\$33 bn AUM**

\$7 bn Available Capital

- Structured Credit
- Direct Lending
- Energy Credit
- Distressed & Special Situations
- Opportunistic
   Credit

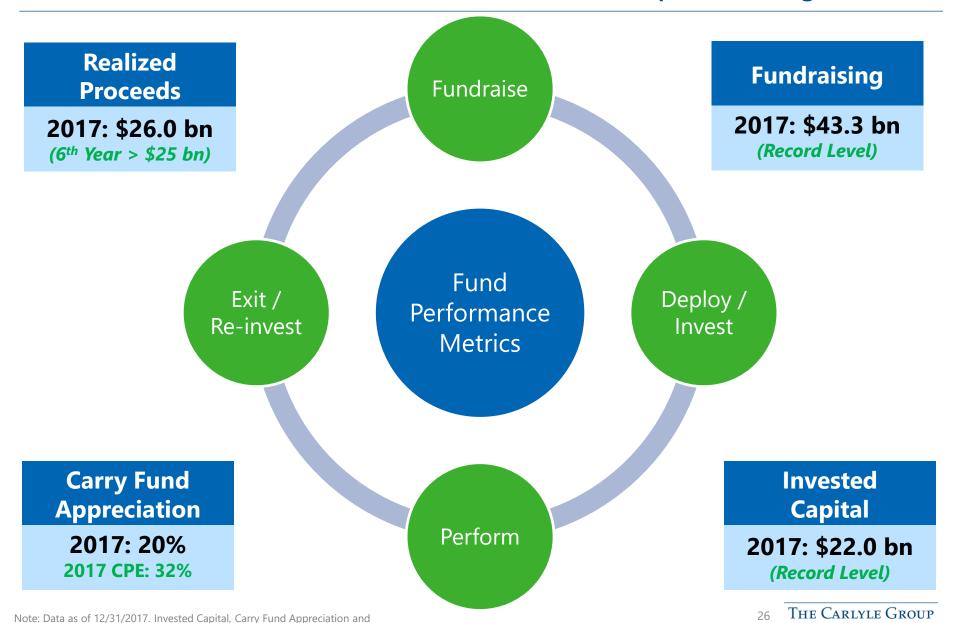
## Investment Solutions

### **\$46 bn AUM**

\$16 bn Available Capital

- Private Equity and Real Estate
- ✓ Funds
- ✓ Secondaries
- ✓ Co-investments

### The Core Drivers of Our Performance Continue to Operate at High Levels



Realized Proceeds amounts represent carry fund activity only.

### Five Topics Of Interest To The Investment Community

- Strong Investment Performance Driving Higher Levels of Potential Revenue
- **Generational Performance Fee Transition Underway**

- Platform Scaling and Improved Deployment
- Increase Orientation Around Fee Related Earnings
- Develop a Premier Global Credit Business

### Strong Investment Performance Is Driving Acceleration in Accrued Carry

### **2017 Carry Fund Appreciation**

Corporate Private Equity 32%

Real Assets 19%

Global Credit 11%

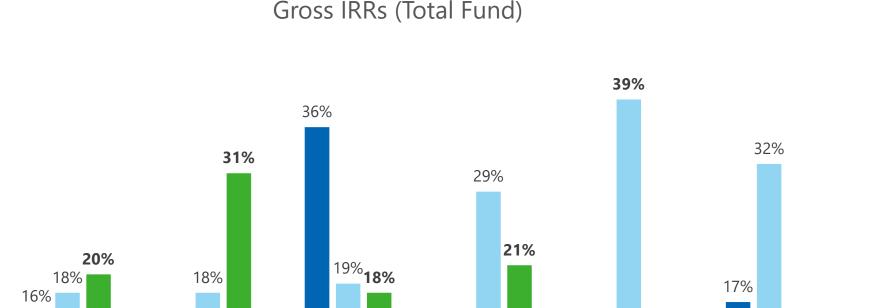
Investment Solutions 10%

All Carry Funds 20%

### Net Accrued Performance Fees Increased 60% in 2017



## Exceptional Fund Performance Is Our Top Priority, and Many Of Our Largest Fund Families Have Consistently Delivered



12%

U.S. Real Estate

(CRP V, VI, VII)

Note: Data as of 12/31/2017. Does not represent all Carlyle carry funds. For a full list of funds and important information, see information in our latest earnings release or SEC documents. Bold represents currently investing funds. Carlyle Realty Partners VII and NGP XI are fully committed, but were 77% and 69% invested as of Q4 2017.

**Europe Buyout** 

(CEP II, III, IV)

11%

Asia Buyout

(CAP II, III, IV)

45%

40%

35%

30%

25%

20%

15%

10%

5%

0%

U.S. Buyout

(CP IV, V, VI)

Distressed &

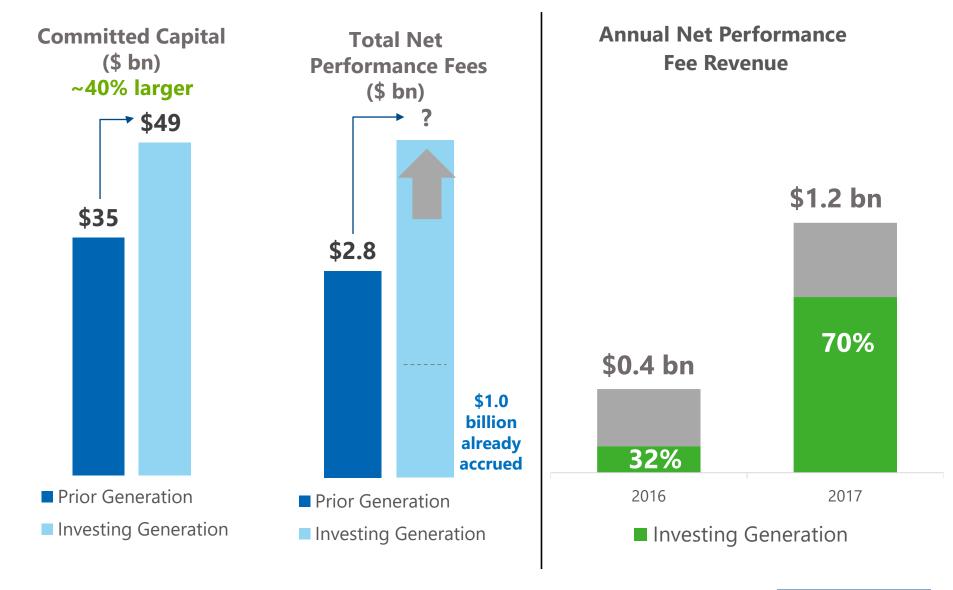
Special Situations (CSP II, III)

NGP Energy

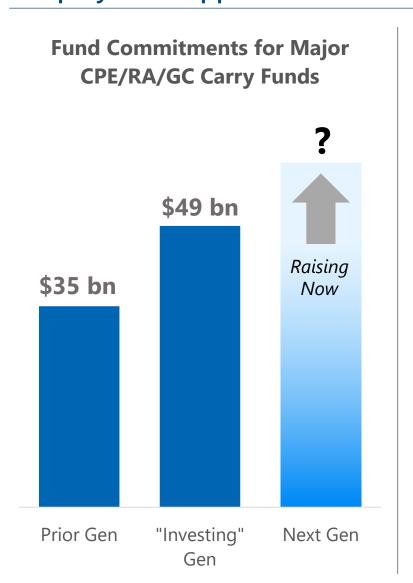
(NGP X, XI)

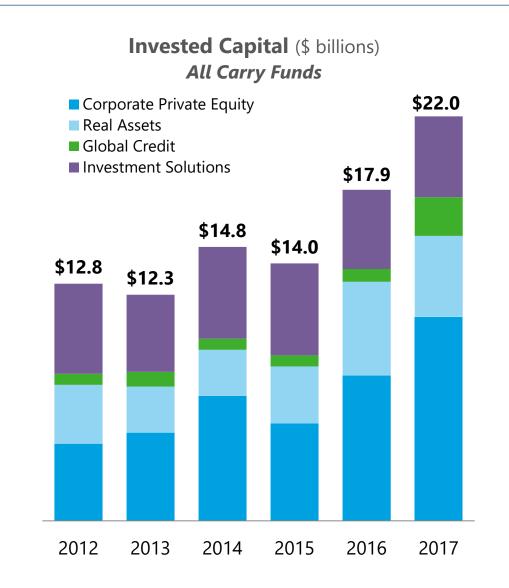
9%

## Generational Scaling Of Investment Funds Should Lead To Higher Performance Fees

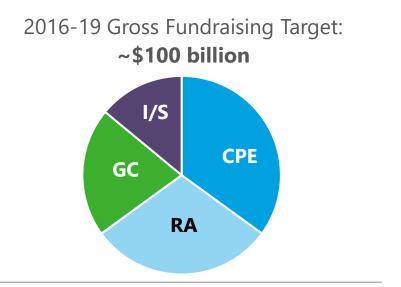


## Larger Generations of Funds Drive Better Economics and Increasing Deployment Opportunities





## On Track To Achieve Our Fundraising Target of \$100 Billion For the Coming Cycle



Gross Fundraising Since Q1 2016





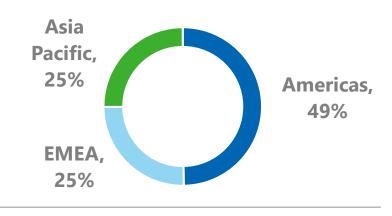
✓ Raised \$57 billion towards goal in 2016 and 2017

✓ Strong partnerships with over 1,750 global investors from 83 countries

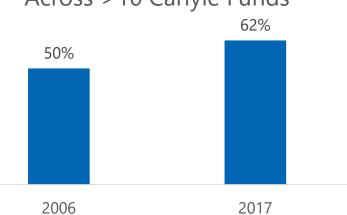
- ✓ Record \$43 billion raised in 2017
- ✓ Expect to raise approximately \$25 billion in 2018

### We Have More Than 1,750 Loyal Investors Across 83 Countries

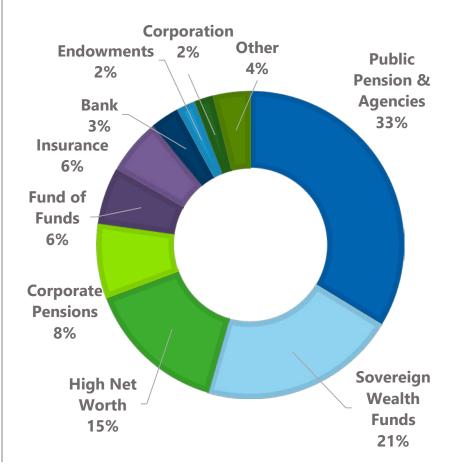
Source of Carry Fund Capital by Region (**LTM**, by commitments)



% of Commitments (in \$) Across > 10 Carlyle Funds



SOURCE OF CARRY FUND CAPITAL BY INVESTOR TYPE, LTM (% OF COMMITMENTS)



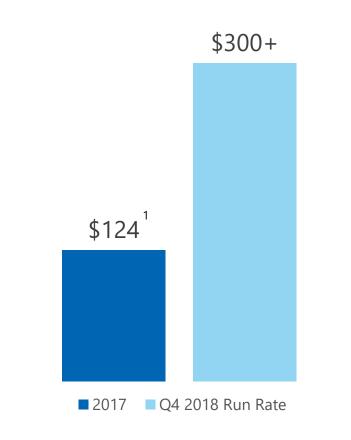
Note: Data as of 12/31/2017.

Number of fund investors for prior years is shown as of September 30<sup>th</sup> of each year.

### **Increasing Firm Orientation Around Fee Related Earnings**

- ✓ Raise larger funds and scale existing funds
- ✓ Maintain net economic terms
- ✓ Leverage fixed expense base
- ✓ Grow Global Credit
- ✓ Additional new initiatives

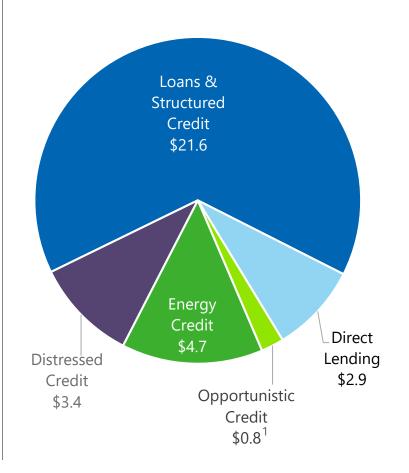
Expect \$300 million in run-rate FRE by Q4 2018 (\$ millions)



### Gaining Momentum and Scale in Global Credit

- Currently have \$33 billion in Global Credit AUM with \$200 million run-rate management fees
- Continue to build out capabilities to manage larger amounts of capital
- Launch and develop new funds & products
  - Opportunistic Credit
  - Secondary Structured Credit
  - New BDCs
  - Managed Accounts
- Leverage functional platform to scale broadening investment capabilities

## Global Credit AUM: \$33 billion



### Well Positioned to Continue to Deliver Solid Economic Results

**\$1.3 billion** in 2017 Economic Income and **\$3.47** post-tax per unit

**\$670 million** in 2017 Distributable Earnings resulting in **\$1.41** in unitholder distributions

Leading carry fund **Investment Performance**: Total 2017 carry fund appreciation of 20%; Corporate Private Equity 32% in 2017

**\$1.7 billion in Net Accrued Performance Fees** across all segments and funds, **up 60%** since year-end 2016

\$70 billion in Available Capital to deploy globally on an opportunistic basis

More than half way through a \$100 billion fundraising effort

Focused efforts gaining traction to build a premier global credit business

## **APPENDIX**

### Reconciliation of GAAP to Non-GAAP Financials

(f) millions)									Annual							
(\$ millions)		4Q16		1017		2Q17		3Q17		4Q17		2015		2016		2017
Income (loss) before provision for income taxes Adjustments:	\$	12	\$	328	\$	244	\$	166	\$	395	\$	402	\$	45	\$	1,132
Equity-based compensation issued in conjunction with IPO, acquisitions and strategic investments(1)		48		67		59		58		57		260		223		241
Acquisition related charges and amortization of intangibles		27		9		9		7		11		289		94		36
Other non-operating (income) / expenses Tax expense associated with performance fee compensation		(12) 1		- (3)		0 (2)		- (2)		(72) (2)		(7) (15)		(11) (15)		(71) (9)
Net income attributable to non-controlling interests in Consolidated entities		(71)		(3)		(17)		(28)		(25)		(538)		(41)		(73)
Provision for income taxes attributable to non-controlling interests in Consolidated entities		(0)		-		-		-		-		(1)		(0)		-
Severance and lease terminations		3		4		8		1		2		7		15		14
Other adjustments		(3)		(1)		-		(0)		-		(0)		(4)		(1)
Economic Income	\$	6	\$	400	\$	300	\$	203	\$	366	\$	397	\$	306	\$	1,269
(-) Net Performance Fees		61		394		299		147		337		392		394		1,178
(-) Investment Income (Loss)		15		11		31		(35)		41		(23)		50		47
(+) Equity-Based Compensation		24		30		37		30		27		122		120		124
(+) Net Interest		13		12		14		12		12		51		51		49
(+) Reserve for litigation and contingencies		(100)		-		-		(25)		-		50		-		(25)
Fee Related Earnings	\$	(132)	\$	37	\$	20	\$	108	\$	27	\$	250	\$	33	\$	192
(+) Realized Net Performance Fees		136		35		182		217		118		789		625		553
(+) Realized Investment Income (Loss)		17		(5)		11		(53)		22		(65)		45		(26)
(+) Net Interest		(13)		(12)		(14)		(12)		(12)	_	(51)		(51)		(49)
Distributable Earnings	\$	7	\$	55	\$	199	\$	260	\$	156	\$	923	\$	652	\$	670