











































## California Public Employees' Retirement System Private Equity Program

### Program Performance

#### Program Value Change – July 1 to December 31, 2019<sup>1</sup>



- The Private Equity Program reported a NAV decrease of approximately \$0.4 billion in the six months from July to December 2019, as strong net cash distributions more than offset the portfolio value increase.
- The Private Equity Program reported a positive portfolio value increase of approximately \$0.4 billion during this time period.

<sup>1</sup> Source: State Street, CalPERS.



## California Public Employees' Retirement System Private Equity Program

### Program Performance

#### Program Performance

	1 Year	3 Year	5 Year	10 Year
CalPERS PE Program <sup>1</sup>	2.9	11.0	9.0	12.4
<i>Policy Benchmark<sup>2</sup></i>	2.6	12.5	10.3	13.4
<i>Cambridge Associates All PE Global<sup>3</sup></i>	9.5	14.3	12.3	14.0
<i>FTSE Global All Cap + 150 bp<sup>4</sup></i>	2.6	11.7	8.7	10.0
Excess vs. Policy Benchmark (%)	↑ 0.3	↓ -1.6	↓ -1.3	↓ -1.1
Excess vs. CA All PE Global (%)	↓ -6.6	↓ -3.3	↓ -3.3	↓ -1.6
Excess vs. FTSE Global All Cap + 150 bp (%)	↑ 0.3	↓ -0.7	↑ 0.3	↑ 2.4

- The overall Program performance has shown strong absolute returns in the trailing 3-, 5-, and 10-years, but continues to trail the Policy Benchmark across these time periods.
  - The Program's longer term historical performance has exceeded the Private Equity projected return included in the recently adopted Capital Market Assumptions (8.3%).
- The Program's performance has underperformed the Cambridge Associates index (private equity peer index).
- The Program has exceeded the FTSE All World Index plus 150 basis points in the 1-, 5-, and 10-year periods, while slightly underperforming in the 3-year period.

<sup>1</sup> Source: State Street. CalPERS returns are reported as time-weighted.

<sup>2</sup> The current Policy Benchmark is a Custom FTSE Global All Cap ex-Tobacco Net of Tax Index + 150 basis points, lagged by one quarter. Previous benchmark was blend FTSE US + FTSE AW ex US + 3% lagged 1 quarter from September 2011 to June 2018, Wilshire 2500 ex-tobacco +3% between July 2009 and September 2011, and the Custom Young Fund Index prior to July 2009.

<sup>3</sup> Returns as of September 30, 2019. Figures are IRR.

<sup>4</sup> Figures are one quarter lagged, time weighted. FTSE Global All Cap returns are based on the FTSE Global All Cap Index + 150 basis points through October 2011, the FTSE Global All Cap Net of Tax (US RIC) Index + 150 basis points through March 2015, and thereafter on the FTSE Global All Cap ex-Tobacco Net of Tax Index + 150 basis points.



## California Public Employees' Retirement System Private Equity Program

### Program Performance

#### Strategy Performance<sup>1</sup>

	NAV (\$ mm)	1 Year	3 Year	5 Year	10 Year
Buyouts	17,945	2.9	12.7	10.5	13.2
Credit	1,737	-4.2	2.8	0.6	9.7
Growth/Expansion	3,721	2.8	12.2	10.7	12.7
Opportunistic	2,168	8.8	9.4	12.3	13.2
Venture	477	5.8	4.5	2.1	6.4
Other <sup>2</sup>	57				
<b>CalPERS PE Program</b>	<b>26,104</b>	<b>2.9</b>	<b>11.0</b>	<b>9.0</b>	<b>12.4</b>

- Buyouts and Growth investments have generated strong returns over the last 3-, 5-, and 10 years.
- The Program's Venture portfolio has historically underperformed other strategies.
- The Program's Credit portfolio has generally underperformed across 1-, 3-, and 5-year periods.
- Opportunistic investments have generated consistently strong returns across trailing periods, outperforming all other strategies over the trailing 1- and 5-year periods.

<sup>1</sup> Source: State Street. All trailing returns included in this report are time-weighted.

<sup>2</sup> Includes currency and stock holdings.



## California Public Employees' Retirement System Private Equity Program

### Program Performance

#### Performance by Structure<sup>1</sup>

	NAV (\$ mm)	1 Year	3 Year	5 Year	10 Year
Customized Investment Accounts	4,656	5.2	9.5	8.9	9.4
Co-Investments/Direct Investments	1,283	3.6	17.2	9.9	14.8
Fund of Funds/Secondaries	1,988	-4.3	4.5	6.6	8.8
Funds	18,121	3.3	11.7	9.3	13.1
Other <sup>2</sup>	57				
CalPERS PE Program	26,104	2.9	11.0	9.0	12.4

- Fund investments have performed well while also making up a significant majority of the PE Program.
- Co-Investments/Direct Investments have outperformed all other investment structures across the 3-, 5-, and 10-year periods. Due to the concentration of the Co-Investment/Direct Investment portfolio, a small number of substantial investments tend to drive performance.
- Fund of Funds/Secondaries posted slightly negative 1-year returns and have lagged the broader PE Program over all trailing time periods.

<sup>1</sup> Source: State Street.

<sup>2</sup> Includes currency and stock holdings.



## California Public Employees' Retirement System Private Equity Program

### Program Performance

#### Performance by Geography<sup>1</sup> (Fund-Level)

	NAV (\$ mm)	1 Year	3 Year	5 Year	10 Year
United States	18,325	2.2	10.6	7.9	12.4
Canada	139	26.3	20.0	18.1	15.3
Developed Asia	24	-51.7	-20.1	-2.6	-0.7
Europe	4,793	8.5	17.1	15.5	13.9
Emerging Markets	2,767	-1.9	5.4	8.0	10.6
Other <sup>2</sup>	57				
<b>CalPERS PE Program</b>	<b>26,104</b>	<b>2.9</b>	<b>11.0</b>	<b>9.0</b>	<b>12.4</b>

- The Program's returns are largely driven by investments in United States.
- European investments have outperformed US investments over the previous 1-, 3-, 5-, and 10-year periods.
- Investments in the Emerging Markets have generally underperformed investments in other regions while still generating solid absolute returns over the trailing 5- and 10-year periods.
- The Program's investments in Developed Asia, comprising a very small amount of capital, significantly underperformed over the prior 1-year period due to mark-downs of assets within a Japan-focused Buyout fund. Investments in Canada, also accounting for a relatively small portion of total NAV, have generated strong returns over all trailing periods.

<sup>1</sup> Source: State Street.

<sup>2</sup> Includes currency and stock holdings.

















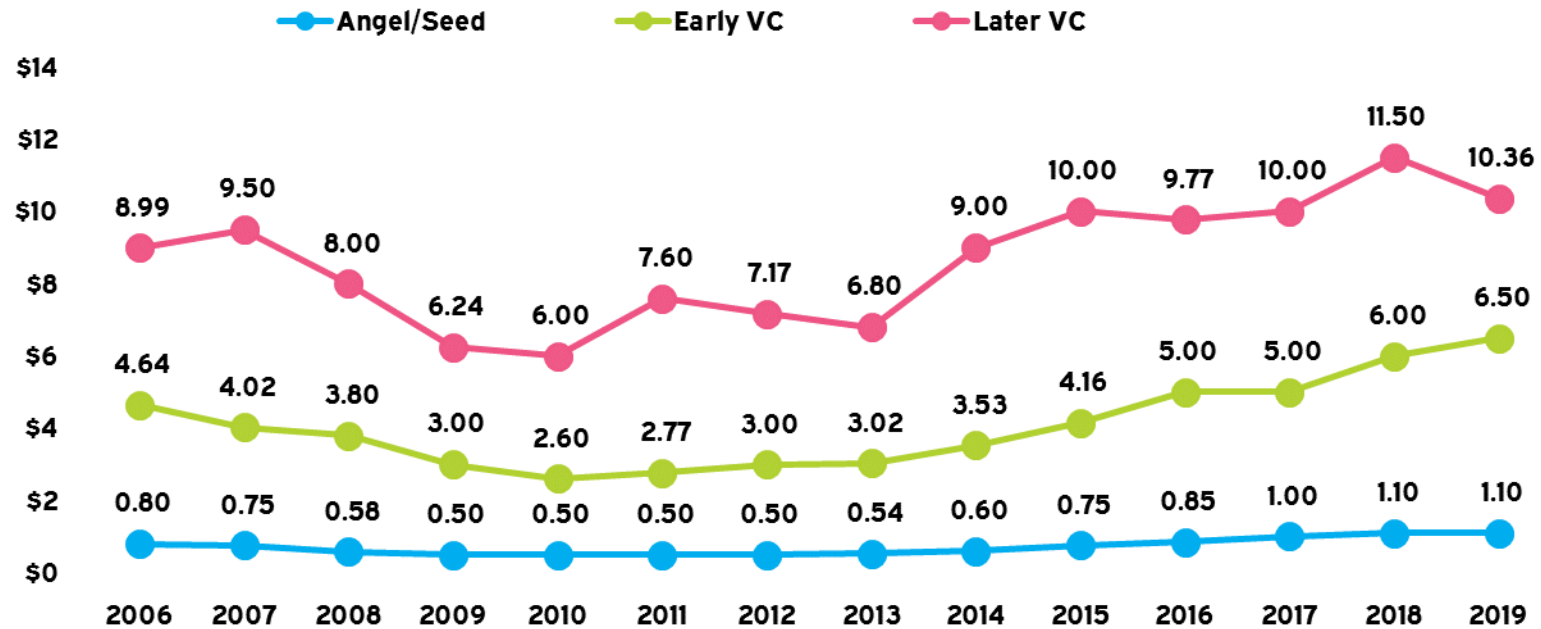




## California Public Employees' Retirement System Private Equity Program

### Private Equity Industry Review – Venture Capital

Median VC Round Size (\$mm), 2006 – 2019<sup>1</sup>



- Median round sizes for US venture transactions in later stage VC stages were down from the 2018 record at \$11.5 million while early VC stage round sizes increased significantly during 2019 and set a new high watermark at \$6.5 million. Angel/seed median round sizes remained stable at \$1.1 million.
- Late stage deals continued to capture a growing proportion of overall deal value in the software and healthtech sectors, while early stage funding comprised the majority of fundraising in the pharma & biotech space.

<sup>1</sup> Source: Pitchbook.

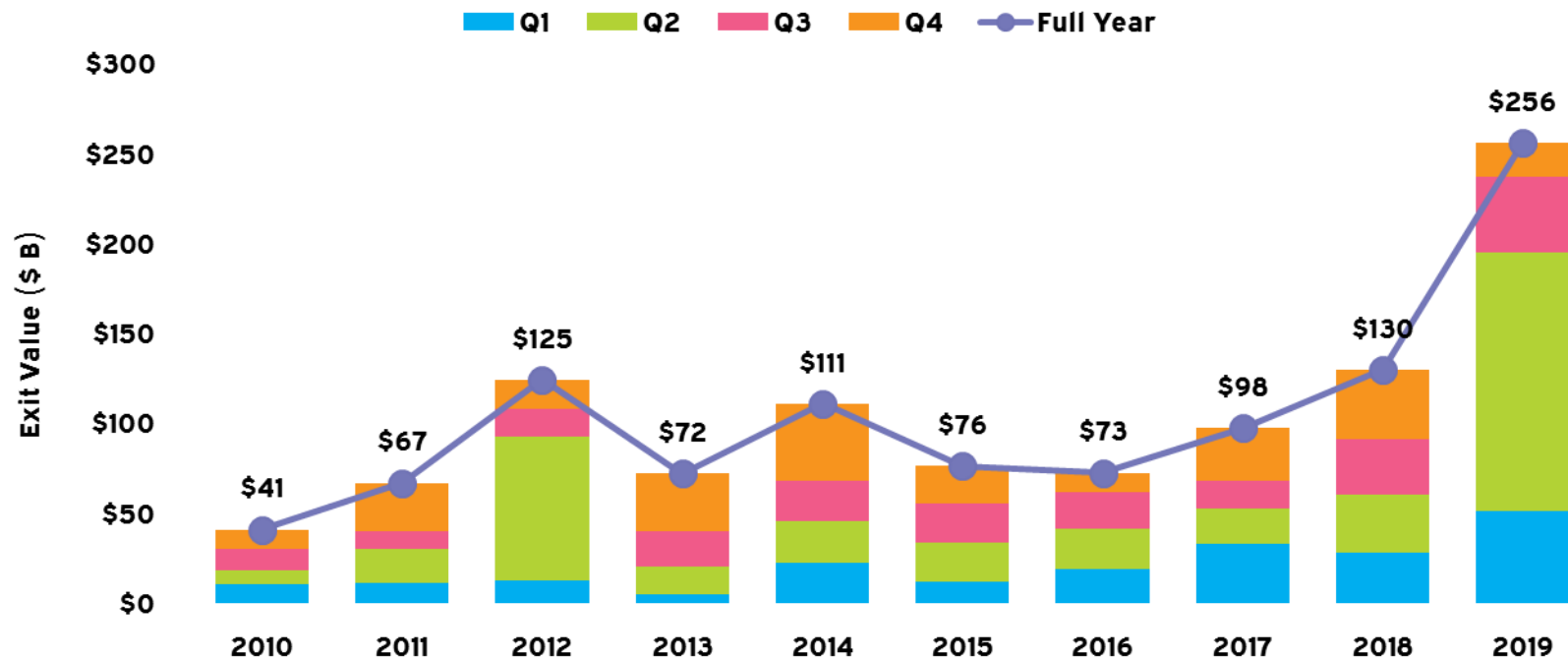




## California Public Employees' Retirement System Private Equity Program

### Private Equity Industry Review – Venture Capital

#### US VC-backed Exit Activity, 2010 – 2019<sup>1</sup>



- Due to the long-awaited IPO of Uber in addition to other high-profile public offerings, there was more US VC-backed exit value during the second quarter of 2019 alone than in any recent prior year.
- VC exit value in the first and third quarters was also strong, though the fourth quarter of 2019 saw a meaningful drop-off in both value and number of exits.

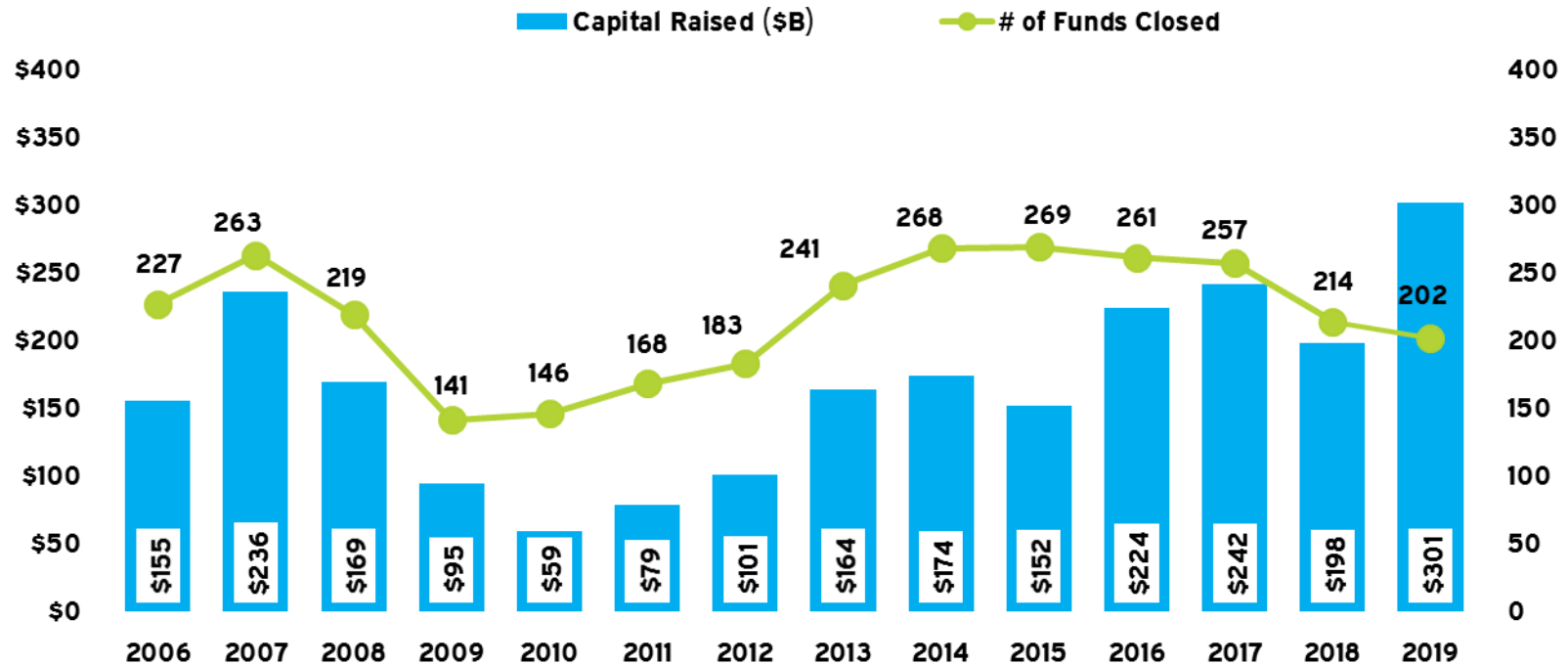
<sup>1</sup> Source: Pitchbook.



## California Public Employees' Retirement System Private Equity Program

### Private Equity Industry Review – Fundraising

#### US PE Fundraising, 2006 – 2019<sup>1</sup>



- Annual PE fundraising totaled over \$300 billion for the first time, up nearly 25% from the previous fundraising record set in 2017.
- 2019 continued the trend towards fewer – but larger – funds as the number of funds closed dropped to the lowest point since 2012.

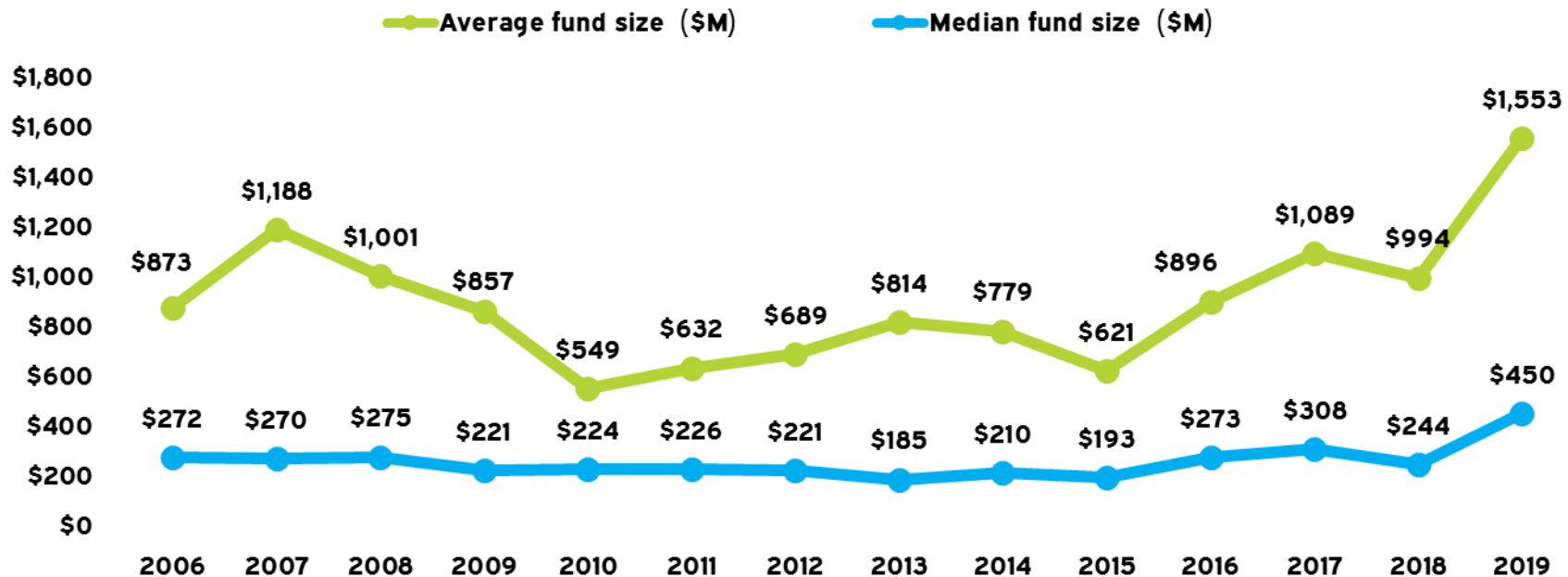
<sup>1</sup> Source: Pitchbook.



## California Public Employees' Retirement System Private Equity Program

### Private Equity Industry Review – Fundraising

Average & Median US PE Buyout Fund Size, 2006 – 2019<sup>1</sup>



- Average and median fund sizes during 2019 for US buyouts increased meaningfully beyond levels reached in any prior years with both figures increasing over 50% from 2018.
- A number of PE mega-funds drove 2019's fund size increases including Blackstone Capital Partners VII's \$26 billion, Advent Global Private Equity IX's \$17.5 billion and Vista Equity VII's \$16 billion fundraises.
- In 2019, many of the biggest GPs closed on their largest flagship funds to date. As a result, 2020 is expected to see a decline in overall fundraising totals and fund sizes from 2019's record-breaking levels.

<sup>1</sup> Source: Pitchbook.

## Appendix



## California Public Employees' Retirement System Private Equity Program

### Appendix – Vintage Years

Vintage Years	Capital Committed <sup>1</sup> (\$ mm)	Total Contributions <sup>1</sup> (\$ mm)	Unfunded Commitment <sup>1</sup> (\$ mm)	Total Distributions <sup>1</sup> (\$ mm)	Reported Value <sup>1</sup> (\$ mm)
Vintage Year 1990	125.3	124.1	0.0	298.1	0.0
Vintage Year 1991	171.8	207.2	0.0	537.7	0.0
Vintage Year 1992	160.0	156.6	0.0	341.5	0.0
Vintage Year 1993	538.0	567.9	0.0	1,083.3	0.0
Vintage Year 1994	1,494.2	1,512.9	0.0	2,515.6	0.0
Vintage Year 1995	1,222.9	1,236.8	0.0	2,034.4	0.0
Vintage Year 1996	1,157.3	1,183.2	31	1,580.1	0.0
Vintage Year 1997	1,101.7	1,133.5	0.0	1,668.7	0.0
Vintage Year 1998	2,205.5	2,387.8	0.3	3,166.6	0.0
Vintage Year 1999	3,271.1	3,457.1	36.9	4,258.0	32.2
Vintage Year 2000	2,708.5	2,675.7	5.3	3,886.8	6.3
Vintage Year 2001	4,520.1	4,769.6	38.2	7,645.2	136.3
Vintage Year 2002	884.8	1,104.0	1.5	1,599.6	18.5
Vintage Year 2003	1,543.6	1,752.5	24.8	3,507.4	46.4
Vintage Year 2004	1,887.9	1,972.7	32.6	3,183.7	15.6
Vintage Year 2005	3,765.0	3,972.1	196.1	5,685.4	113.0
Vintage Year 2006	9,679.9	10,907.3	640.4	14,084.5	930.5
Vintage Year 2007	14,482.0	15,737.4	649.6	21,123.7	1,884.9
Vintage Year 2008	10,989.6	12,592.4	599.8	18,074.6	2,008.8
Vintage Year 2009	891.5	880.5	40.5	706.1	630.4

<sup>1</sup> Source: CalPERS. As of 12/31/2019. Some signed commitments are not yet included in data.



## California Public Employees' Retirement System Private Equity Program

### Appendix – Vintage Years

Vintage Years (continued)	Capital Committed <sup>1</sup> (\$ mm)	Total Contributions <sup>1</sup> (\$ mm)	Unfunded Commitment <sup>1</sup> (\$ mm)	Total Distributions <sup>1</sup> (\$ mm)	Reported Value <sup>1</sup> (\$ mm)
Vintage Year 2010	699.4	853.3	33.5	1,050.1	295.5
Vintage Year 2011	1,912.0	2,003.9	222.5	2,009.3	1,256.2
Vintage Year 2012	2,406.0	2,737.2	227.0	2,561.2	1,307.7
Vintage Year 2013	3,815.9	3,963.4	699.3	2,516.2	3,309.5
Vintage Year 2014	4,245.2	4,104.9	645.5	2,317.0	3,031.9
Vintage Year 2015	3,193.5	2,723.6	685.9	1,162.4	3,046.1
Vintage Year 2016	2,926.5	3,051.2	708.1	1,027.1	2,362.5
Vintage Year 2017	2,980.6	2,588.9	544.1	268.8	2,695.8
Vintage Year 2018	4,190.3	1,813.5	2,425.4	68.0	1,931.2
Vintage Year 2019	6,890.1	1,141.5	5,802.0	2.0	1,114.5

<sup>1</sup> Source: CalPERS. As of 12/31/2019. Some signed commitments are not yet included in data.



## California Public Employees' Retirement System Private Equity Program

### Appendix – Vintage Years

Strategies	Capital Committed <sup>1</sup> (\$ mm)	Total Contributions <sup>1</sup> (\$ mm)	Unfunded Commitment <sup>1</sup> (\$ mm)	Total Distributions <sup>1</sup> (\$ mm)	Reported Value <sup>1</sup> (\$ mm)
Buyouts	61,661.3	54,950.7	14,923.9	64,631.1	18,357.2
Credit	11,734.6	12,504.4	990.6	16,309.9	1,736.8
Growth/Expansion	12,956.2	12,009.8	1,410.7	13,761.0	3,721.3
Opportunistic	6,094.7	5,682.1	1,241.0	5,592.6	1,881.6
Venture	7,985.7	8,165.8	68.6	9,668.5	477.1

<sup>1</sup> Source: CalPERS. As of 12/31/2019. Some signed commitments are not yet included in data.