

Hamilton Lane **PSERS Private Markets**

Fourth Quarter Report

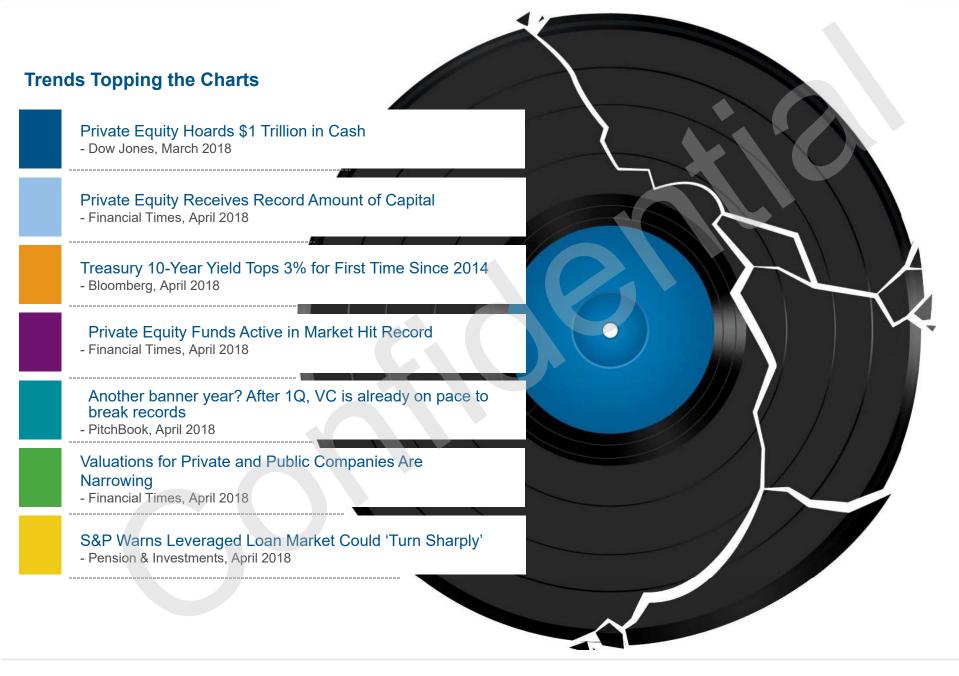


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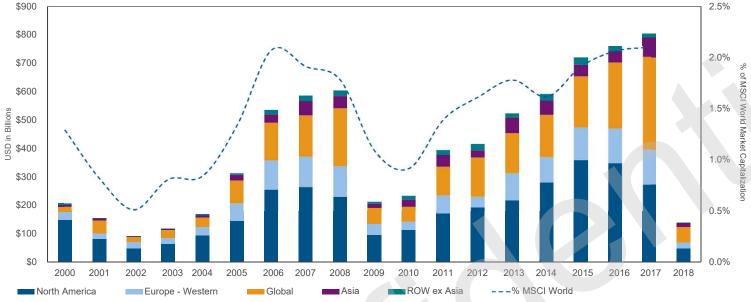
Where Are We Now?





2018 Fundraising Likely to Stay Near Record Levels

Global Private Markets Fundraising by Geography



What will 2018 fundraising bring?

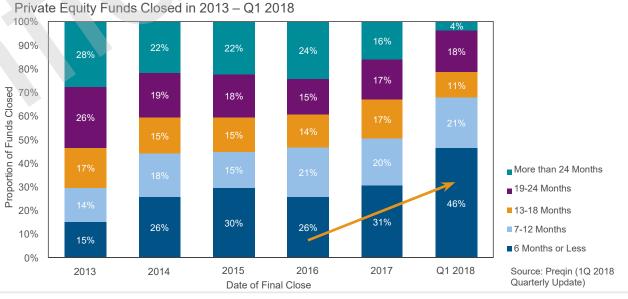
- Early days, but no sign of a hangover given pipeline
- In Q1 2018, aggregate capital of \$138.5 million raised

Source: Cobalt (March 2018)

Fast-paced fundraising continues

- Prevalence of 'first and final' fund closings
- 51% of funds closed in 2017 spent a year or less in market
- Funds spending less than 6 months in market growing

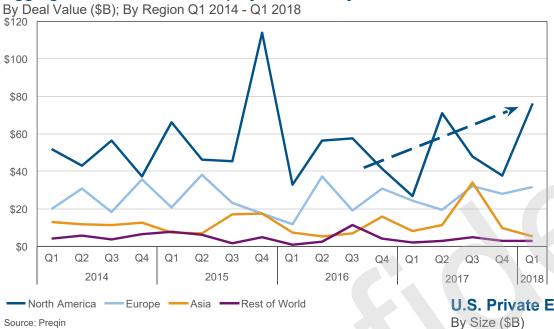
Time Spent in Market





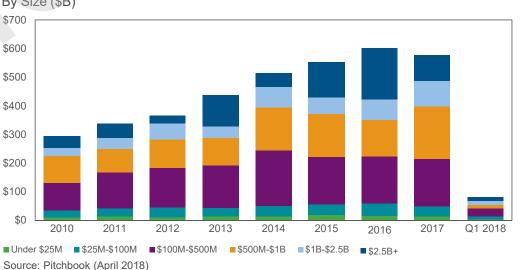
Deal activity led by the Middle Market





Q1 2018: 1,023 PE-backed buyout deals for aggregate value of \$116B

- North America deal value of \$76B • represented 66% of total
 - Two mega deals: Keurig and Dr. Pepper merger at \$21B and Thomson Reuters Corporation takeover at \$17B



U.S. Private Equity Activity

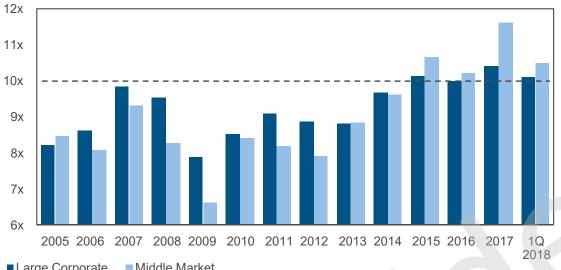
Strong 2017 for U.S. middle market deals (sub \$1B TEV)

- \$338B in 2017 ۰
 - 2017 represented records for both deal count and value
- \$54B invested in Q1 2018 ٠



The New Norm? Pricing >10x

U.S. Purchase Price Multiples



Plenty of capital for deals, but market is fully priced: purchase price multiples staying above 10.0x

Middle Market pricing continues to • outpace Large Corporate; a trend seen since 2015

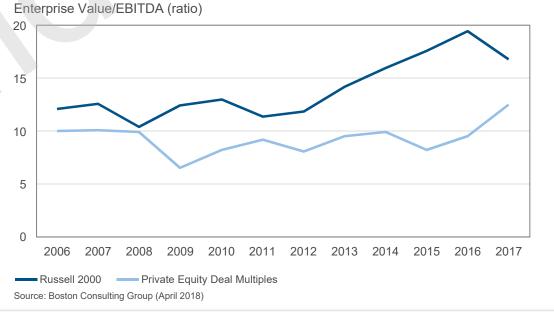
Large Corporate Middle Market

Source: LCD, an offering of S&P Global Market Intelligence (April 2018)

Private deal pricing increases

- Gap between prices paid for private • and public companies narrows in 2017
- Investors paid 12.5x for private ٠ companies vs. 16.8x for public companies in 2017

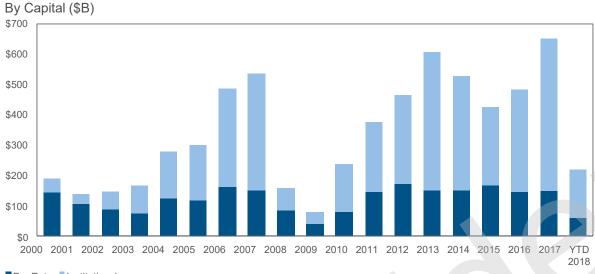
Public and Private Company Valuations





Debt: Make it a "Lite"

U.S. Leveraged Loan Volume



Debt still in strong supply

- 2017 was record year for volume at \$650B
 - Three months into 2018 volume already at \$218B

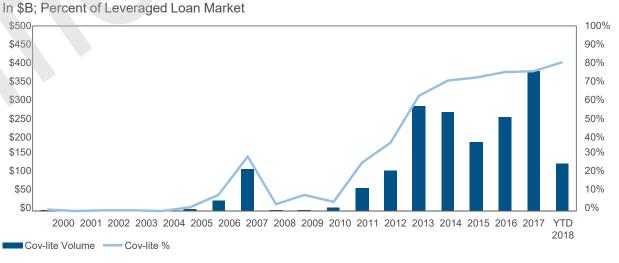
Pro Rata Institutional

Source: LCD, an offering of S&P Global Market Intelligence (April 2018)

Covenant lite loans accounted for 75% of the leveraged loan market in 2017

- Highest volume on record in last 18 years
 - Better financial health across companies in recent years
- How long will this credit cycle last?

U.S. Covenant Lite Loans

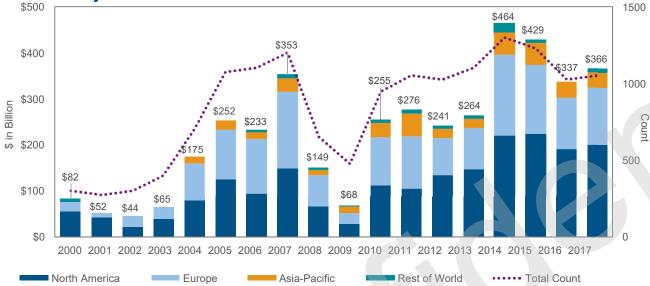


Source: LCD, an offering of S&P Global Market Intelligence (April 2018)



Market moving towards being a net investor? Given buyout liquidity ratios converging to 1.0x

Global Buyout-Backed Exits



\$366B exit activity in 2017, uptick from lower value and count seen in 2016

- Lower liquidity value expected

 according to Bain: by 2017, more than 80% of exits involved companies that PE firms had acquired from 2009on
- Value in North America relatively steady last four years

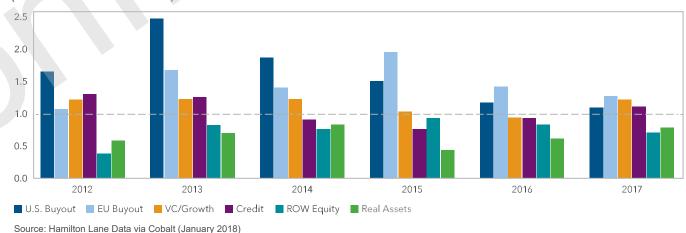
Source: Bain, Dealogic (March 2018)

Liquidity ratios see movement

- VC and Credit rebound to >1.0x ratio
- U.S./EU Buyout see declines, but hold on to be net distributors
- Note, year is young but Q1 2018 liquidity strong

Annual Liquidity Ratio by Strategy

(Distributions/Contributions)





In today's world of credit line usage...it's complicated

| Know your numbe | ers: | | | Credit Line | <u>Fees</u> |
|--|-----------------------------|-----|------|--------------|--------------|
| GP Theoretical "Crossing Lines - Deals Using Fund Line" | Gross IRR (Credit Line) | 34% | 1.5x | | |
| Diligence "Just the Deals, Please" | Gross IRR (No Credit Line) | 23% | 1.4x | | |
| Actual "Cash Experience" | Net LP IRR (Credit Line) | 22% | 1.3x | \checkmark | \checkmark |
| Pro Forma for Credit Line "The Way it Was" Pre Credit Lines | Net LP IRR (No Credit Line) | 15% | 1.3x | | \checkmark |

The IRR comparisons shown above are for illustrative purposes only



Portfolio Update

Overview

| Committed Capita | of \$30,281.2M to 206 Active Partnerships across 69 GPs |
|--------------------------------|---|
| Unfunded Comr | nitment of \$4,724.4M and NAV of \$7,642.4M as of December 31, 2017 |
| The Portfolio made | e 3 new investments (\$300.0M) during the quarter |
| | uidated 7 investments during the quarter |
| Cash flow positive | for the quarter as distributions of \$845.1M outpaced contributions of \$334.8M |
| Cash flow positive | for the year as distributions of \$2,808.7M outpaced contributions of \$1,316.3M |
| • 11.41% Since Ince | eption Net IRR remained relatively steady from last quarter |
| | 63%) generated Net Value gains for the quarter, for an aggregate Portfolio Net Value |
| gain of \$365.4M | over generated riter value game for the quarter, for an aggregate i erticle riter value |
| Performance | Capital Partners III, L.P. appreciated \$21.8M during the quarter |
| Platinum Equity | Capital Partners II, L.P. depreciated \$28.0M during the quarter |
| Portfolio Since Inc | eption IRR outperformed the Burgiss All Private Markets benchmark by 535 bps |
| • 2015 Vintage Yea | investments accounted for 14% of Total Exposure as of December 31, 2017 |
| • 2015 Vintage Y | ear investments accounted for 12% of Portfolio NAV |
| Exposure • Private Equity inve | stments accounted for 67% of Portfolio NAV as of December 31, 2017 |
| Private Equity in | vestments accounted for 68% of Total Exposure |
| Top Portfolio Hold | ing: \$86.5M - 1.0% of Exposed NAV |



Private Markets Portfolio Quarterly Update

| Summary | | | | | | |
|--|--------------------|-------------------|-------------------|-------------------|--------------------|------------------------------|
| Performance | 1-QTR ¹ | 1-YR ¹ | 3-YR ¹ | 5-YR ¹ | 10-YR ¹ | Since-Inception ¹ |
| Final - 4Q17 | 4.82% | 18.47% | 10.53% | 10.45% | 7.05% | 11.41% |
| Benchmark ² | 3.91% | 17.00% | 11.02% | 12.45% | 8.35% | 6.06% |
| Blended 70% Russell 3000 / 30% MSCI ACWI x US Index as of 12/31/2017 5 | | | | | 6.74% | 9.11% |
| | | | | | | |
| Preliminary - 1Q18 3 | 1.92% | 16.42% | 10.90% | 10.23% | 7.30% | 11.39% |
| Benchmark ⁴ | 2.18% | 15.87% | 11.47% | 12.41% | 8.71% | 6.12% |
| Blended 70% Russell 3000 / 30% MSCI ACWI x US Index as of 3/31/2018 $^{\rm 5}$ | | | | | 7.43% | 9.09% |

¹ Dollar-w eighted (IRR)

² Burgiss Index All Private Markets - 12/31/2017 - Source: AON (As provided by PSERS)

³ 1Q18 metrics reflect preliminary data and may be changed due to increased information received by the general partners of the underlying investments

⁴ Burgiss Index All Private Markets - 3/31/2018 - Source: AON (As provided by PSERS)

⁵ Since Inception Blended Index Return unavailable; thus, Since Inception MSCI World Net Total Return USD Index – Source: Bloomberg (as provided by PSERS) reflected

| Cash Flow Activity - Final - 4Q17 (\$M) | | | | | | | |
|---|--|-----------------|---------------|---------------|----------------|-----------|--|
| | | New Commitments | Contributions | Distributions | Residual Value | Unfunded | |
| Quarter | | \$264.3 | \$334.8 | \$845.1 | | | |
| YTD | | \$1,325.8 | \$1,316.3 | \$2,808.7 | | | |
| ITD | | \$30,281.2 | \$26,447.3 | \$32,191.4 | \$7,642.4 | \$4,724.4 | |

| Asset Allocation (\$M) | Total Fund | Target | NAV | Outstanding Commitment | NAV + Outstanding Commitment | |
|------------------------|------------|--------|-------|---------------------------|------------------------------|--|
| Final - 4Q17 | \$55,256.7 | 15.0% | 13.8% | 8.5% | 22.5% | |
| Preliminary - 1Q18 | \$54,261.8 | 15.0% | 14.4% | 8.9% | 22.9% | |



Quarterly Review

- During the quarter, the Portfolio generated a 1-QTR point-to-point IRR of 4.82% and a Net Value gain of \$365.4M
- Since Inception Net IRR, inclusive of management fees paid to General Partners of 11.41%

| Client Overview | PSERS Pri | vate Markets F | Portfolio | |
|---|--------------------------------|----------------|------------|----------|
| Im Inception | (\$M) | 9/30/2017 | 12/31/2017 | Change |
| | Active Partnerships | 210 | 206 | (4) |
| lationship Inception | Exited Investments | 81 | 88 | 7 |
| | Active GP Relationships | 70 | 69 | (1) |
| e Market Strategy | Capital Committed ¹ | \$29,918.8 | \$30,281.2 | \$362.4 |
| e Markets | Unfunded Commitment | \$4,897.4 | \$4,724.4 | (\$173.0 |
| ize as of 12/31/2017 | Contributions | \$26,112.5 | \$26,447.3 | \$334.8 |
| 1 · · · · · · · · · · · · · · · · · · · | Distributions | \$31,346.3 | \$32,191.4 | \$845.1 |
| t / Current Allocation | NAV | \$7,787.3 | \$7,642.4 | (\$144.9 |
| / 13.8% | Private Equity | \$5,186.4 | \$5,095.2 | (\$91.2) |
| nchmark | Special Situations | \$1,071.0 | \$1,114.5 | \$43.5 |
| s All Private Markets | Venture Capital | \$1,011.5 | \$950.5 | (\$61.0) |
| Benchmark | PSERS Private Equity Internal | \$518.5 | \$482.2 | (\$36.3) |
| World Net Total Return USD | MoC | 1.5x | 1.5x | - |
| | Avg. Age of Commitments | 9.1 years | 9.3 years | 0.2 year |
| | Since Inception IRR Performan | ce | | |
| | Portfolio Net IRR ² | 11.36% | 11.41% | 5 bps |

¹ The change in Capital Committed over the period reflects currency movements in existing non-USD denominated funds and new commitments

² Portfolio Net IRR, net of General Partner Fees

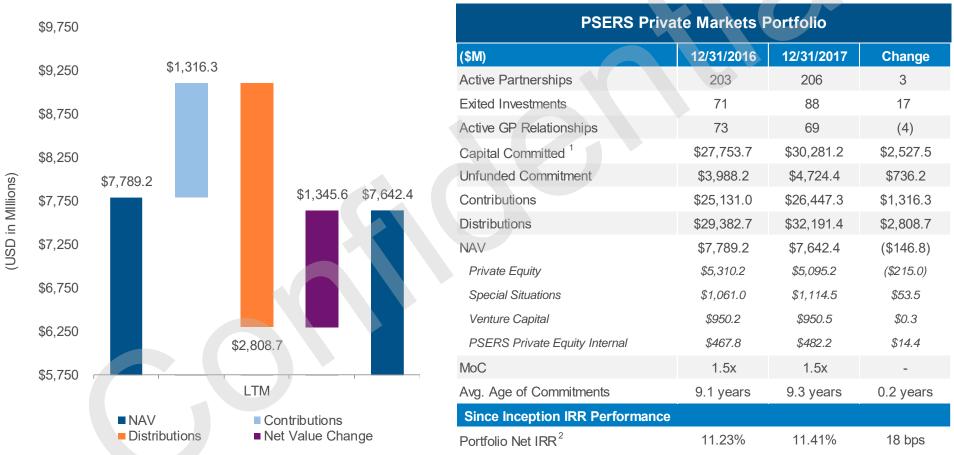
Note: Change over the period may not sum due to rounding



LTM Snapshot

LTM Review

• Over the LTM, the Portfolio generated a 1-YR point-to-point IRR of 18.47% and a Net Value gain of \$1,345.6M



¹ The change in Capital Committed over the period reflects currency movements in existing non-USD denominated funds and new commitments

² Portfolio Net IRR, net of General Partner Fees

Note: Change over the period may not sum due to rounding



New Commitments

| 2017 Commitment Summary (\$M) | | | | | |
|---|-------------------|------------------|--|--|--|
| Fund Name: | Strategy | Committed | | | |
| LLR Equity Partners V, L.P. | Venture Capital | \$200M | | | |
| Aisling Capital IV, L.P. ¹ | Venture Capital | Additional \$50M | | | |
| Apollo Investment Fund IX, L.P. ² | Special Situation | \$225M | | | |
| Bain Capital Fund XII, L.P. ³ | Private Equity | \$125M | | | |
| New Mountain Partners V, L.P. | Private Equity | \$200M | | | |
| Apax Digital, L.P. | Private Equity | \$100M | | | |
| Portfolio Advisors Secondary Fund III, L.P. ⁴ | Private Equity | \$125M | | | |
| PAI Europe VII, L.P. | Private Equity | €125M | | | |
| Orchid Asia VII, L.P. | Private Equity | \$75M | | | |
| Clearlake Capital Fund V, L.P. ⁵ | Special Situation | \$100M | | | |
| Blue Point Capital Partners IV, L.P. | Private Equity | \$70M | | | |
| Insight Venture Partners X, L.P. | Venture Capital | \$100M | | | |
| Equistone Partners Europe Fund VI, SCSp 6 | Private Equity | €75M | | | |
| Bridgepoint Europe VI, L.P. | Private Equity | €100M | | | |

¹ Commitment is in addition to \$50M original commitment approved by PSERS' Board on 8/6/2015.

² Commitment of \$250M was approved by PSERS' Board on 6/16/2017. Final commitment was reduced to \$225M.

³ Commitment of \$150M was approved by PSERS' Board on 6/16/2017. Final commitment was reduced to \$125M.

⁴ PSERS' Board also approved \$200M for the creation of a separately managed account.

⁵ Commitment of \$200M was approved by PSERS' Board on 12/8/2017. Final commitment was reduced to \$100M.

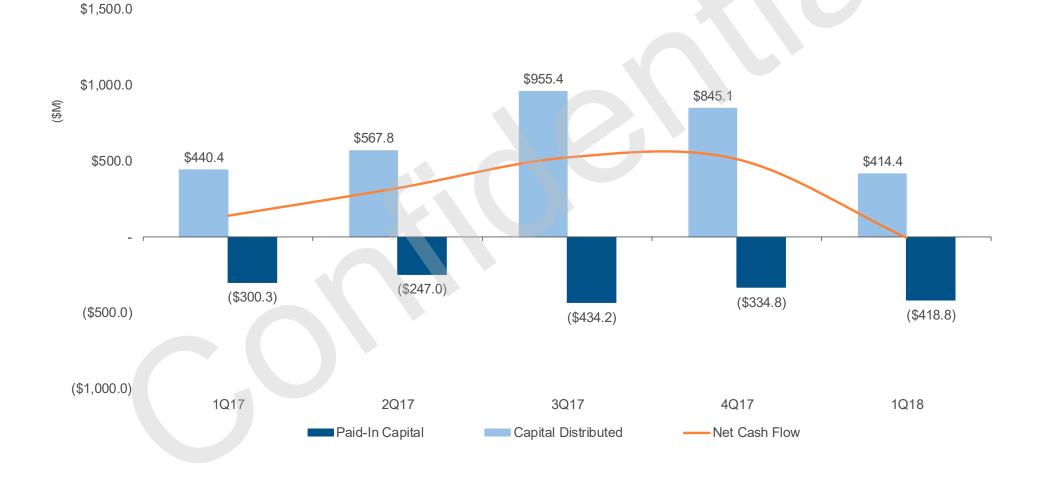
⁶ Commitment of €85 was approved by PSERS' Board on 12/8/2017. Final commitment was reduced to €75M.



Quarterly Cash Flow Summary

Quarterly Net Cash Flow Activity

- Distributions of \$845.1M outpaced contributions of \$334.8M during the quarter
- Distributions of \$2,808.7M outpaced contributions of \$1,316.3M over the LTM ended December 31, 2017
 - During 1Q18, preliminary contributions of \$418.8M outpaced preliminary distributions of \$414.4M during the quarter



Market Update | Executive Summary | Activity Update | Performance Update | Exposure Update | Appendix

12/31/2017 | Proprietary and Confidential



Quarterly Cash Flow Summary

Top Quarterly Contributors and Distributors

| Funds that Called the Most Capital During the Quarter (\$M) | | | | | | |
|---|--|------|--------------------|---------------|------------|--|
| Investment | | VY | Strategy | Contributions | % of Total | |
| Cerberus Institutional Partners VI, L.P. | | 2015 | Special Situations | \$46.8 | 14.0% | |
| Strategic Partners Fund VII, L.P. | | 2016 | Private Equity | \$45.2 | 13.5% | |
| Bain Capital Asia Fund III, L.P. | | 2016 | Private Equity | \$23.1 | 6.9% | |
| Apollo Investment Fund VIII, L.P. | | 2013 | Special Situations | \$14.2 | 4.2% | |
| Incline Equity Partners III, L.P. | | 2011 | Private Equity | \$14.1 | 4.2% | |
| Total | | | | \$143.4 | 42.8% | |
| | | | | | | |

| Funds that Distributed the Most Capital During the Quarter (\$M) | | | | | | |
|--|------|-----------------|---------------|------------|--|--|
| Investment | VY | Strategy | Distributions | % of Total | | |
| CVC European Equity Partners V, L.P. | 2008 | Private Equity | \$65.2 | 7.7% | | |
| LLR Equity Partners IV, L.P. | 2013 | Venture Capital | \$40.8 | 4.8% | | |
| Summit Partners Growth Equity Fund VIII, L.P. | 2012 | Venture Capital | \$30.7 | 3.6% | | |
| Bain Capital Asia Fund III, L.P. | 2016 | Private Equity | \$30.6 | 3.6% | | |
| Cinven Fourth Fund | 2007 | Private Equity | \$27.1 | 3.2% | | |
| Total | | | \$194.4 | 23.0% | | |

Note: Top Contributors and Distributors exclude Private Equity Internal Program



Top LTM Contributors and Distributors

| Funds that Called the Most Capital During the Year (\$M) | | | | | | |
|--|------|--------------------|---------------|------------|--|--|
| Investment | VY | Strategy | Contributions | % of Total | | |
| Platinum Equity Capital Partners IV, L.P. | 2016 | Private Equity | \$75.0 | 5.7% | | |
| Strategic Partners Fund VII, L.P. | 2016 | Private Equity | \$73.1 | 5.6% | | |
| Cerberus Institutional Partners VI, L.P. | 2015 | Special Situations | \$62.5 | 4.7% | | |
| Bridgepoint Europe V, L.P. | 2015 | Private Equity | \$50.0 | 3.8% | | |
| Bain Capital Asia Fund III, L.P. | 2016 | Private Equity | \$46.8 | 3.6% | | |
| Total | | | \$307.4 | 23.4% | | |

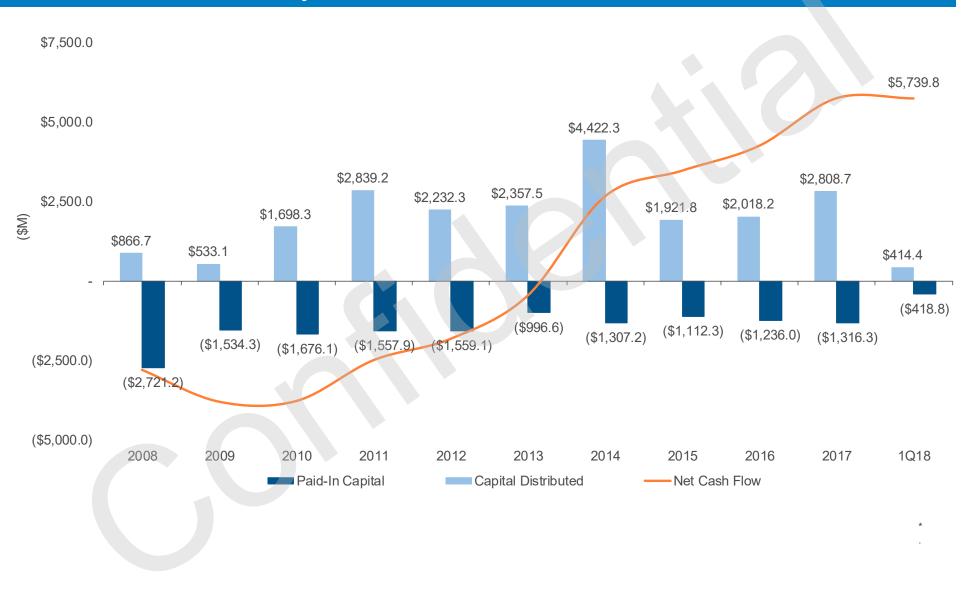
| Funds that Distributed the Most Capital During the Year (\$M) | | | | | | | |
|---|------|--------------------|---------------|------------|--|--|--|
| Investment | VY | Strategy | Distributions | % of Total | | | |
| Baring Asia Private Equity Fund IV, L.P. | 2007 | Private Equity | \$305.0 | 10.9% | | | |
| CVC European Equity Partners V, L.P. | 2008 | Private Equity | \$188.7 | 6.7% | | | |
| New Mountain Partners III, L.P. | 2007 | Private Equity | \$96.5 | 3.4% | | | |
| PAI Europe V | 2008 | Private Equity | \$82.6 | 2.9% | | | |
| Cerberus Institutional Partners V, L.P. | 2012 | Special Situations | \$79.4 | 2.8% | | | |
| Total | | | \$752.2 | 26.8% | | | |

Note: Top Contributors and Distributors exclude Private Equity Internal Program



Cash Flow Summary – Last 10 Years

Cumulative Net Cash Flow Activity



Market Update | Executive Summary | Activity Update | Performance Update | Exposure Update | Appendix

12/31/2017 | Proprietary and Confidential



IRR Performance

Performance vs. Benchmark

• Portfolio IRR outperformed the Burgiss All Private Markets Benchmark over the 1-Quarter, 1-Year, and Since Inception time periods and outperformed the MSCI World Net Total Return USD Benchmark over the 10-Year and Since Inception time periods

| | | PSERS Private Ma Performance Summ as of Decemb | nary by Strategy | | $\langle O$ | |
|--|--------------|--|------------------|-------------|--------------|------------------------|
| Strategy | 1-QTR IRR | 1-YR IRR | 3-YR IRR | 5-YR IRR | 10-YR IRR | Since Inception IRR |
| Private Equity | 5.01% | 18.80% | 11.19% | 10.39% | 6.87% | 11.82% |
| Venture Capital | 4.39% | 17.28% | 8.08% | 10.52% | 4.64% | 7.38% |
| Special Situations | 6.32% | 17.61% | 5.85% | 7.81% | 8.18% | 13.19% |
| PE Internal Program | 0.50% | 20.23% | 22.82% | 26.86% | N/A | 27.75% |
| Total Portfolio | 4.82% | 18.47% | 10.53% | 10.45% | 7.05% | 11.41% |
| Burgiss All Private Markets | 3.91% | 17.00% | 11.02% | 12.45% | 8.35% | 6.06% |
| MSCI World Net Total Return USD 12/31/2017 | | | | | 5.90% | 9.11% |

¹ PE Internal Program performance excludes Wilson currency hedge

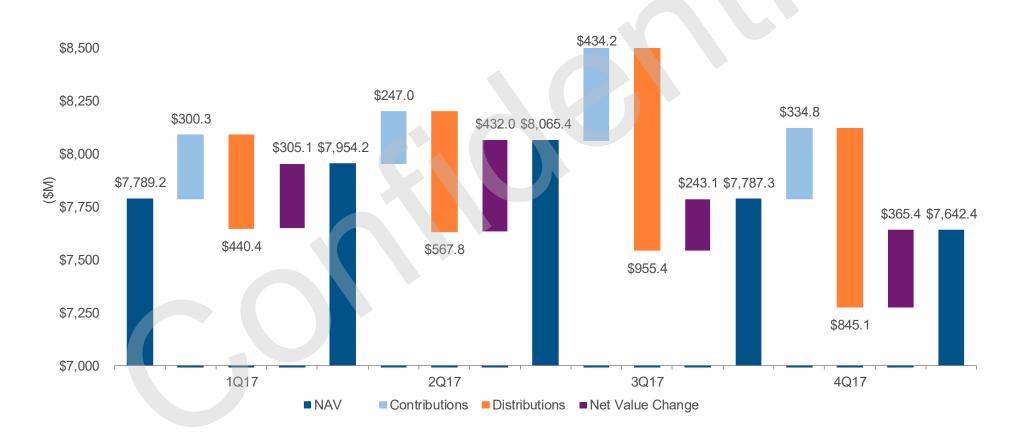
² Source: AON (as provided by PSERS)

³ Source: Bloomberg (as provided by PSERS)



Quarter-over-Quarter Net Value Bridge

- Aggregate Portfolio Net value gain of \$365.4M during the quarter
 - 134 partnerships generated Net Value gains (\$474.0M) while 65 generated Net Value losses (\$108.6M)
 - The remaining 14 active partnerships generated no value change during the period
- Net Value Change isolates the realized and unrealized performance of the underlying investments made by the partnerships within the Portfolio. The Net Value Bridge illustrates these movements:





Top & Bottom Quarterly Portfolio Drivers

| Investment | VY | Quarterly Appreciation | NAV | 1-QTR IRR | Since Inception IRR |
|---|------------------------|---------------------------|-----------|-----------|------------------------|
| Platinum Equity Capital Partners III, L.P. | 2012 | \$21.8 | \$160.1 | 15.24% | 34.77% |
| CVC European Equity Partners V, L.P. | 2008 | \$20.0 | \$142.8 | 14.12% | 15.66% |
| Apollo Investment Fund VIII, L.P. | 2013 | \$19.1 | \$194.9 | 10.38% | 20.39% |
| Bain Capital Asia Fund II, L.P. | 2012 | \$15.2 | \$101.0 | 15.14% | 26.42% |
| Cerberus Institutional Partners, L.P. (Series 4) | 2006 | \$15.1 | \$98.7 | 15.10% | 9.18% |
| Appreciation (Top 5) | | \$91.2 | \$697.5 | 13.63% | 13.59% |
| Appreciation (Remaining 129) | | \$382.8 | \$6,010.2 | 6.71% | 11.38% |
| Total Appreciation (134) | | \$474.0 | \$6,707.7 | 7.30% | 11.78% |
| Top Quarterly Detrac | tors as Measured by Ne | et Value Change (\$N | I) | | |
| Investment | VY | Quarterly Appreciation | NAV | 1-QTR IRR | Since Inception IRR |
| Platinum Equity Capital Partners II, L.P. | 2007 | (\$28.0) | \$48.3 | (34.97%) | 13.05% |
| Palladium Equity Partners II-A, L.P. | 2000 | (\$9.8) | \$53.0 | (15.54%) | 8.40% |
| Versa Capital Fund II, L.P. | 2008 | (\$4.6) | \$100.7 | (4.27%) | 0.60% |
| Psilos Group Partners III, L.P. | 2007 | (\$3.9) | \$44.2 | (8.13%) | 2.93% |
| Capital International Private Equity Fund V, L.P. | 2007 | (\$3.3) | \$6.2 | (34.97%) | (2.34%) |
| Depreciation (Top 5) | | (\$46.3) | \$246.2 | (15.52%) | 8.39% |
| Depreciation (Remaining 60) | | (\$62.3) | \$673.6 | (5.77%) | 11.46% |
| Total Depreciation (65) | | (\$108.6) | \$919.8 | (10.13%) | 11.41% |
| | | | | | |

¹ Performance relating to liquated investments and investments generating no value change during the year are included within Total Portfolio return figures



Top & Bottom LTM Portfolio Drivers

| Top LTM Contri | ibutors as Measured by Net | Value Change (\$M) | | | |
|--|----------------------------|---------------------|-----------|----------|------------------------|
| Investment | VY | LTM Appreciation | NAV | 1-YR IRR | Since Inception IRR |
| CVC European Equity Partners V, L.P. | 2008 | \$78.7 | \$142.8 | 51.71% | 15.66% |
| LLR Equity Partners IV, L.P. | 2013 | \$55.6 | \$177.6 | 39.38% | 25.51% |
| New Mountain Partners III, L.P. | 2007 | \$50.6 | \$207.0 | 24.40% | 13.54% |
| Platinum Equity Capital Partners III, L.P. | 2012 | \$50.4 | \$160.1 | 37.14% | 34.77% |
| Bain Capital Asia Fund II, L.P. | 2012 | \$49.6 | \$101.0 | 61.88% | 26.42% |
| Appreciation (Top 5) | | \$284.9 | \$788.5 | 39.80% | 17.13% |
| Appreciation (Remaining 144) | | \$1,280.1 | \$5,975.0 | 24.12% | 11.50% |
| Total Appreciation (149) | | \$1,565.0 | \$6,763.5 | 25.46% | 11.81% |

| Top LTM Detractors as Me | asured by Net V | alue Change (\$M) | | | |
|---|-----------------|---------------------|-----------|----------|------------------------|
| Investment | VY | LTM Appreciation | NAV | 1-YR IRR | Since Inception IRR |
| Platinum Equity Capital Partners II, L.P. | 2007 | (\$46.8) | \$48.3 | (41.54%) | 13.05% |
| Apax Europe VII-A, L.P. | 2007 | (\$29.6) | \$56.7 | (29.92%) | 4.98% |
| Capital International Private Equity Fund V, L.P. | 2007 | (\$13.6) | \$6.2 | (59.20%) | (2.34%) |
| Versa Capital Fund II, L.P. | 2008 | (\$13.6) | \$100.7 | (11.31%) | 0.60% |
| Evergreen Pacific Partners, L.P. | 2005 | (\$10.8) | \$0.0 | N/A | (99.99%) |
| Depreciation (Top 5) | | (\$114.4) | \$211.9 | (31.57%) | 4.65% |
| Depreciation (Remaining 56) | | (\$104.9) | \$653.4 | (12.98%) | 12.31% |
| Total Depreciation (61) | | (\$219.3) | \$865.3 | (19.42%) | 11.65% |
| Total Portfolio (206) | | \$1,345.6 | \$7,642.4 | 18.47% | 11.41% |

¹ Performance relating to liquated investments and investments generating no value change during the year are included within Total Portfolio return figures



Diversification by Strategy

Portfolio Strategic Diversification



| | | | Performance Sun | Markets Portfolio nmary by Strateg nber 31, 2017 | | | | |
|------------------------------|--------|------|-----------------|--|-------------|-------------|--------------|-----------------|
| Strategy | NAV | МоС | 1-QTR IRR | 1-YR IRR | 3-YR IRR | 5-YR IRR | 10-YR IRR | Since Inception |
| Special Situations | 14.6% | 1.5x | 6.32% | 17.61% | 5.85% | 7.81% | 8.18% | 13.19% |
| Venture Capital | 12.4% | 1.4x | 4.39% | 17.28% | 8.08% | 10.52% | 4.64% | 7.38% |
| Private Equity | | | | | | | | |
| Large Buyout | 12.3% | 1.4x | 7.08% | 18.98% | 10.14% | 9.46% | 7.13% | 9.77% |
| Middle Market Buyout | 46.9% | 1.6x | 4.35% | 18.81% | 12.27% | 10.85% | 6.87% | 11.67% |
| Secondary | 7.5% | 1.5x | 5.90% | 17.47% | 6.39% | 9.71% | 6.08% | 19.79% |
| PE Internal Program | 6.3% | 1.7x | 0.50% | 20.23% | 22.82% | 26.86% | N/A | 27.75% |
| Subtotal Private Equity | 73.0% | 1.5x | 4.60% | 18.83% | 11.83% | 10.89% | 7.12% | 11.92% |
| Total Portfolio | 100.0% | 1.5x | 4.82% | 18.47% | 10.53% | 10.45% | 7.05% | 11.41% |
| Private Equity Domestic | 42.1% | 1.5x | 3.05% | 15.35% | 11.94% | 10.96% | 6.54% | 11.08% |
| Private Equity International | 30.9% | 1.6x | 6.76% | 23.44% | 11.70% | 10.81% | 8.08% | 14.23% |

¹ PE Internal Program performance excludes Wilson currency hedge



Diversification by Vintage Year – Last 10 Years

Portfolio Vintage Year Diversification

| Historical Vintage Year Commitments – Last 10 Years | Performan | PSERS Private M ace Summary by V as of Decemb | intage Year - L | |
|--|-----------------|---|-----------------|-----------------|
| \$4,000.0 | Vintage Year | Total Exposure | MoC | Since Inception |
| \$3,613.7 | 2008 | \$1,079.2 | 1.4x | 10.23% |
| \$3,500.0 | 2009 | 206.0 | 2.0x | 17.20% |
| \$3,000.0 | 2010 | 10.1 | 1.1x | 1.36% |
| \$2,500.0 | 2011 | 810.4 | 1.4x | 13.73% |
| \$2,000.0 | 2012 | 1,386.3 | 1.6x | 18.14% |
| \$1,727.2 | 4 2013 | 1,114.4 | 1.4x | 18.18% |
| \$1,500.0 \$1,365.9 \$1,344.4 | 2014 | 855.1 | 1.4x | 20.96% |
| \$1,000.0 \$900.0 \$973.1 \$873.4 | 2015 | 1,790.8 | 1.2x | 13.07% |
| \$500.0 | 2016 | 1,452.4 | 1.3x | 34.51% |
| \$200.0 \$75.0 | 2017 | 1,590.2 | 1.0x | 3.36% |
| 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 | Total Portfolio | \$12,366.8 | 1.5x | 11.41% |
| Capital Committed | | | | |

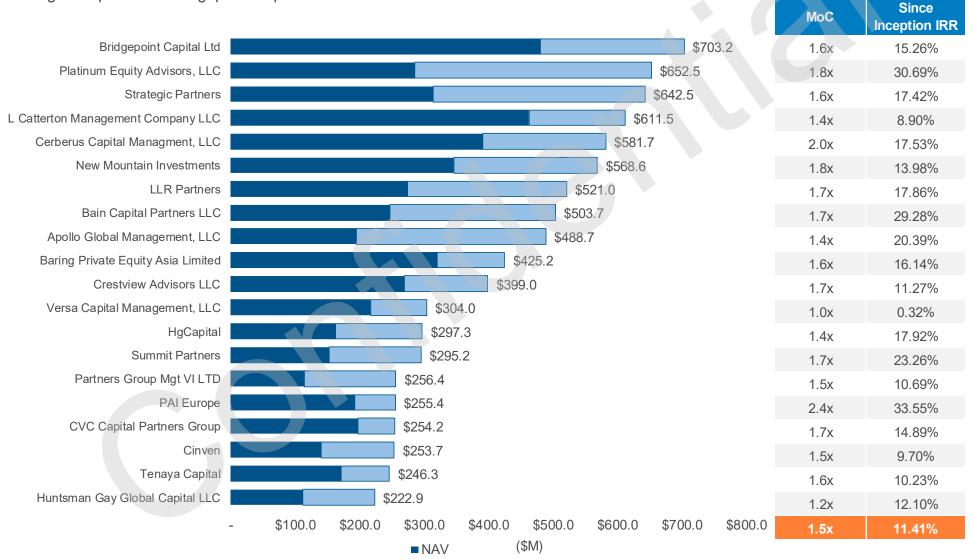
¹ Total Exposure = NAV + Unfunded Commitments

Note: The above analysis takes into account the vintage year of the fund, not necessarily when PSERS committed capital

Hamilton Lane Top 20 Total Exposure / Performance by Relationship

Portfolio Relationship Exposure

- \$12,366.8M Total Exposure across 69 GPs comprised of \$7,642.4M NAV and \$4,724.4M uncalled capital
- Largest exposure to Bridgepoint Capital Ltd across 11 investments





Portfolio Holding Level Exposure

• As of December 31, 2017, there were 2,939 unique underlyling holdings in the PSERS Private Markets Portfolio, including 142 unique publicly held companies

- The PSERS Private Markets Portfolio's largest exposure was to the Information Technology sector
 - 2 of the top 10 holdings were classified within this sector
- Top PSERS Private Markets Portfolio holding- Exposed Market Value: \$86.5M
 - Held by: KRG Capital Fund IV, L.P.

Industry Exposure by Exposed Market Value¹

| Sector | 9/30/2017 | 12/31/2017 | Change |
|----------------------------|-----------|------------|--------|
| Information Technology | 18% | 18% | - |
| Consumer Discretionary | 16% | 18% | 2% |
| Industrials | 13% | 14% | 1% |
| Health Care | 13% | 13% | |
| Financials | 10% | 9% | (1%) |
| FoF Holding | 8% | 7% | (1%) |
| Energy | 7% | 7% | - |
| Materials | 6% | 5% | (1%) |
| Consumer Staples | 5% | 5% | - |
| Real Estate | 1% | 2% | 1% |
| Telecommunication Services | 1% | 2% | 1% |

Geographic Exposure by Exposed Market Value¹

| Region | 9/30/2017 | 12/31/2017 | Change |
|----------------|-----------|------------|--------|
| North America | 66% | 65% | (1%) |
| Western Europe | 20% | 20% | - |
| Asia | 9% | 9% | - |
| Rest of World | 5% | 5% | - |

Public/Private Holdings by Exposed Market Value ¹

| Public/Private | 9/30/2017 | 12/31/2017 | Change |
|----------------|-----------|------------|--------|
| Private | 92% | 91% | (1%) |
| Public | 8% | 9% | 1% |

¹ Exposed Market Value is LP's share of Market Value at the Portfolio Holding Level. May not sum to 100% due to rounding.



Top Holding Exposures

Top Ten Underlying Companies

| Rank | Company Name | Partnership | Sector | Country | Public/ Private | NAV ¹ | % of Portfolio | Mult. |
|-------|---|---|---------------------------|-------------------|--------------------|------------------|-------------------|-------|
| 1 | | KRG Capital Fund IV, L.P. | Industrials | United States | Private | \$86.5 | 1.0% | 4.8x |
| 2 | | Crestview Partners II, L.P. | Consumer Discretionary | United States | Public | 81.9 | 0.9% | 12.4x |
| 3 | | Palladium Equity Partners II-A, L.P. | Materials | United States | Private | 71.7 | 0.8% | 6.7x |
| 4 | | New Mountain Partners III, L.P. | Materials | United States | Private | 68.6 | 0.8% | 10.0x |
| 5 | | Bridgepoint Europe III, L.P. | Consumer Discretionary | United Kingdom | Private | 62.7 | 0.7% | 5.6x |
| 6 | | Cerberus Institutional Partners V, L.P. | Consumer Staples | United States | Private | 56.9 | 0.6% | 2.9x |
| 7 | | Co-Investment Fund II, L.P. | Information Technology | United States | Private | 52.7 | 0.6% | 3.7x |
| 8 | | KKR 2006 Fund, L.P. | Information Technology | United States | Public | 48.9 | 0.5% | 1.1x |
| 9 | | Bridgepoint Europe III, L.P. | Health Care | Sweden | Private | 47.9 | 0.5% | 2.6x |
| 10 | | Bridgepoint Europe IV, L.P. | Consumer Discretionary | Spain | Private | 44.9 | 0.5% | 3.7x |
| Total | nalysis excludes the following investment | | | | | \$622.7 | 6.9% | |

¹NAV (Exposed Market Value) is LP's share of Market Value at the Portfolio holding level. May not sum to 100% due to rounding (USD in Millions)



Private Markets Portfolio Impact on Pennsylvania

Private Markets Portfolio Impact on Pennsylvania

| December 31, 2017 (\$M) | Private Equity* | Venture Capital | Special Situations | Total |
|--|-----------------|--------------------|-----------------------|------------|
| Funds Headquartered in PA – Commitments Total | \$12,374.6 | \$875.0 | \$7,564.0 | \$20,813.6 |
| Funds Headquartered in PA – Commitments PSERS' Share | \$794.8 | \$168.1 | \$217.8 | \$1,180.7 |
| | | | | |
| PA-based Investments – Total Value | \$22,096.5 | \$934.5 | \$11,601.0 | \$34,632.0 |
| PA-based Investments – PSERS' Market Share | \$1,398.0 | \$142.9 | \$313.2 | \$1,854.1 |
| Number of people employed | 34,733 | 2,312 | 10,044 | 47,089 |
| Payroll | \$489.9 | \$82.1 | \$75.3 | \$647.3 |

Note: Includes Private Equity Internal Program Source: PSERS



| PSERS Private Markets Portfolio Performance Summary by Investment as of December 31, 2017 | | | | | | | | | | |
|---|--------------|----------------|----------------------|---------------|---------------|-------------|------|------------------------|------|--|
| Partnership | Vintage Year | Strategy | Capital Committed | Contributions | Distributions | NAV | МоС | Since Inception IRR | DPI | |
| Private Equity Portfolio | | | | | | | | | | |
| ABS Capital Partners II, L.P. | 1996 | Private Equity | \$40,000,000 | \$39,291,734 | \$45,555,770 | \$309,945 | 1.2x | 6.72% | 1.2x | |
| Actis Emerging Markets 3, L.P. | 2007 | Private Equity | 200,000,000 | 221,002,062 | 190,013,443 | 41,648,000 | 1.0x | 1.14% | 0.9x | |
| Actis Global 4, L.P. | 2012 | Private Equity | 100,000,000 | 77,926,914 | 12,381,782 | 74,904,000 | 1.1x | 4.76% | 0.2x | |
| Allegheny New Mountain Partners, L.P. | 2004 | Private Equity | 100,000,000 | 85,315,511 | 172,133,406 | 3,714,859 | 2.1x | 14.32% | 2.0x | |
| Apax Digital L.P. | 2017 | Private Equity | 100,000,000 | - | - | - | N/A | N/A | N/A | |
| Apax Europe VII-A, L.P. | 2007 | Private Equity | 239,589,822 | 291,179,003 | 318,570,641 | 56,702,572 | 1.3x | 4.98% | 1.1x | |
| Bain Capital Asia Fund II, L.P. | 2012 | Private Equity | 100,000,000 | 99,570,442 | 98,950,515 | 101,011,946 | 2.0x | 26.42% | 1.0x | |
| Bain Capital Asia Fund III, L.P. | 2016 | Private Equity | 130,000,000 | 53,625,000 | 33,653,515 | 50,612,023 | 1.6x | 118.56% | 0.6x | |
| Bain Capital Fund XI, L.P. | 2014 | Private Equity | 100,000,000 | 84,500,000 | 26,346,673 | 95,625,793 | 1.4x | 25.61% | 0.3x | |
| Bain Capital Fund XII, L.P. | 2017 | Private Equity | 125,000,000 | - | - | - | N/A | N/A | N/A | |
| Baring Asia Private Equity Fund III, L.P. | 2005 | Private Equity | 122,500,000 | 145,214,197 | 333,702,589 | 11,453,367 | 2.4x | 52.26% | 2.3x | |
| Baring Asia Private Equity Fund IV, L.P. | 2007 | Private Equity | 300,000,000 | 332,155,528 | 506,395,232 | 21,378,700 | 1.6x | 8.68% | 1.5x | |
| Baring Asia Private Equity Fund V, L.P. | 2011 | Private Equity | 200,000,000 | 258,860,880 | 149,251,231 | 200,548,097 | 1.4x | 10.52% | 0.6x | |
| Baring Asia Private Equity Fund VI, L.P. | 2015 | Private Equity | 100,000,000 | 63,224,269 | 8,094,517 | 68,812,568 | 1.2x | 15.90% | 0.1x | |
| Bastion Capital Fund, LP | 1994 | Private Equity | 12,500,000 | 12,246,895 | 24,148,319 | - | 2.0x | 18.93% | 2.0x | |
| 3DC III, L.P. | 2016 | Private Equity | 101,194,090 | 15,288,904 | - | 22,043,598 | 1.4x | 44.18% | - | |
| 3G Media International Investors | 1997 | Private Equity | 25,000,000 | 24,729,264 | 21,119,037 | - | 0.9x | (2.40%) | 0.9x | |
| Blue Point Capital Partners I, L.P. | 2001 | Private Equity | 103,750,000 | 91,140,153 | 143,028,571 | 215,797 | 1.6x | 12.08% | 1.6x | |
| Blue Point Capital Partners II, L.P. | 2007 | Private Equity | 100,000,000 | 92,828,332 | 184,924,208 | 44,251,535 | 2.5x | 19.52% | 2.0x | |
| Blue Point Capital Partners III, L.P. | 2014 | Private Equity | 60,000,000 | 45,887,672 | 30,771,881 | 34,061,724 | 1.4x | 21.96% | 0.7x | |
| Bridgepoint Capital II (Secondary) | 1998 | Private Equity | 84,714,906 | 81,290,641 | 166,312,361 | 264,840 | 2.0x | 18.65% | 2.0x | |
| Bridgepoint Europe I | 1998 | Private Equity | 79,622,624 | 75,126,567 | 135,823,089 | 115,093 | 1.8x | 12.43% | 1.8x | |
| Bridgepoint Europe II, L.P. | 2001 | Private Equity | 359,384,733 | 313,199,355 | 607,586,316 | 5,961,384 | 2.0x | 29.40% | 1.9x | |
| Bridgepoint Europe III, L.P. | 2005 | Private Equity | 239,589,822 | 249,205,063 | 176,602,887 | 135,259,212 | 1.3x | 3.00% | 0.7x | |
| Bridgepoint Europe IV, L.P. | 2008 | Private Equity | 359,384,733 | 370,761,035 | 376,288,428 | 174,300,573 | 1.5x | 9.77% | 1.0x | |
| Bridgepoint Europe V, L.P. | 2015 | Private Equity | 179,692,367 | 96,701,237 | 15,406,708 | 106,900,338 | 1.3x | 25.59% | 0.2x | |
| Bruckmann, Rosser, Sherrill & Co. L.P. | 1995 | Private Equity | 25,000,000 | 24,465,163 | 44,580,173 | - | 1.8x | 10.37% | 1.8x | |
| Capital International Private Equity Fund V, L.P. | 2007 | Private Equity | 200,000,000 | 205,080,307 | 182,602,895 | 6,219,495 | 0.9x | (2.34%) | 0.9x | |
| Capital International Private Equity Fund VI, L.P. | 2011 | Private Equity | 100,000,000 | 95,095,620 | 13,455,352 | 78,179,525 | 1.0x | (1.20%) | 0.1x | |



| | | PSERS Private Markets Portfolio Performance Summary by Investment as of December 31, 2017 | | | | | | | | |
|--|--------------|---|----------------------|---------------|---------------|-------------|------|------------------------|------|--|
| Partnership | Vintage Year | Strategy | Capital Committed | Contributions | Distributions | NAV | МоС | Since Inception IRR | DPI | |
| Catterton Growth Partners II, L.P. | 2013 | Private Equity | 75,000,000 | 74,553,262 | - | 92,211,558 | 1.2x | 7.61% | - | |
| Catterton Growth Partners, L.P. | 2008 | Private Equity | 75,000,000 | 92,996,496 | 89,376,847 | 53,680,240 | 1.5x | 9.33% | 1.0x | |
| Catterton Partners V, L.P. | 2004 | Private Equity | 100,000,000 | 101,386,111 | 140,451,682 | 1,285,622 | 1.4x | 5.48% | 1.4x | |
| Catterton Partners VI, L.P. | 2006 | Private Equity | 130,000,000 | 147,723,222 | 186,919,589 | 84,244,863 | 1.8x | 11.95% | 1.3x | |
| Catterton Partners VII, L.P. | 2012 | Private Equity | 100,000,000 | 105,383,928 | 11,894,569 | 129,890,961 | 1.3x | 12.08% | 0.1x | |
| CIGNA | 1988 | Private Equity | 4,566,946 | 4,566,946 | 6,645,349 | - | 1.5x | 9.21% | 1.5x | |
| Cinven Fifth Fund, L.P. | 2012 | Private Equity | 119,794,911 | 122,335,896 | 84,394,671 | 109,795,788 | 1.6x | 21.36% | 0.7x | |
| Cinven Fourth Fund | 2007 | Private Equity | 179,692,367 | 206,670,211 | 297,870,296 | 2,466,806 | 1.5x | 7.43% | 1.4x | |
| Cinven Sixth Fund | 2016 | Private Equity | 107,815,420 | 23,404,176 | | 21,602,379 | 0.9x | (13.19%) | - | |
| Clarity Partners L.P. | 2000 | Private Equity | 203,590,000 | 204,760,392 | 150,711,218 | - | 0.7x | (6.93%) | 0.7x | |
| Clarity PSERS II, L.P. | 2008 | Private Equity | 17,386,250 | 12,225,121 | 2,451,273 | - | 0.2x | (28.86%) | 0.2x | |
| Coller International Partners VI, L.P. | 2011 | Private Equity | 100,000,000 | 70,779,465 | 62,526,381 | 46,697,768 | 1.5x | 15.60% | 0.9x | |
| Coller International Partners VII, L.P. | 2015 | Private Equity | 100,000,000 | 23,517,808 | - | 30,657,996 | 1.3x | 50.58% | - | |
| Credit Suisse First Boston Equity Partners, LP | 1998 | Private Equity | 137,172,500 | 114,737,213 | 32,970,843 | - | 0.3x | (16.26%) | 0.3x | |
| Credit Suisse First Boston Intl. Equity Partners | 1997 | Private Equity | 100,000,000 | 76,663,758 | 95,813,877 | - | 1.2x | 5.22% | 1.2x | |
| Crestview Capital Partners | 2005 | Private Equity | 150,000,000 | 154,361,773 | 226,159,577 | 20,814,758 | 1.6x | 7.48% | 1.5x | |
| Crestview Partners II, L.P. | 2009 | Private Equity | 200,000,000 | 224,877,866 | 267,499,310 | 172,438,275 | 2.0x | 17.20% | 1.2x | |
| Crestview Partners III, L.P. | 2015 | Private Equity | 150,000,000 | 57,401,160 | 961,100 | 65,061,955 | 1.2x | 8.29% | 0.0x | |
| CVC Capital Partners Asia Pacific III, L.P. | 2008 | Private Equity | 300,000,000 | 296,006,917 | 429,111,881 | 54,851,161 | 1.6x | 13.81% | 1.4x | |
| CVC European Equity Partners V, L.P. | 2008 | Private Equity | 359,384,733 | 434,879,656 | 632,095,332 | 142,770,095 | 1.8x | 15.66% | 1.5x | |
| DCPF VI Oil and Gas Coinvestment Fund LP | 2013 | Private Equity | 25,000,000 | 21,218,942 | 9,097,036 | 22,650,844 | 1.5x | 21.00% | 0.4x | |
| Denham Commodity Partners Fund VI, L.P. | 2011 | Private Equity | 75,000,000 | 72,800,615 | 32,755,878 | 52,766,482 | 1.2x | 7.98% | 0.4x | |
| Deutsche European Partners IV | 1999 | Private Equity | 200,000,000 | 180,960,550 | 224,577,100 | - | 1.2x | 6.41% | 1.2x | |
| DLJ Merchant Banking Partners III, L.P. | 2000 | Private Equity | 300,000,000 | 310,668,837 | 671,148,994 | - | 2.2x | 20.27% | 2.2x | |
| Dubin Clark Fund II, L.P. | 2000 | Private Equity | 24,083,333 | 23,706,041 | 27,060,085 | - | 1.1x | 1.99% | 1.1x | |
| Edgewater Growth Capital Partners, L.P. | 2001 | Private Equity | 59,196,500 | 59,196,500 | 77,379,658 | - | 1.3x | 6.58% | 1.3x | |
| Edgewater Private Equity Fund III | 1998 | Private Equity | 39,000,000 | 39,000,000 | 23,129,095 | - | 0.6x | (7.85%) | 0.6x | |
| Equistone Partners Europe Fund V, L.P. | 2015 | Private Equity | 77,866,692 | 57,499,120 | - | 74,040,613 | 1.3x | 18.94% | - | |
| Evergreen Pacific Partners II, L.P. | 2008 | Private Equity | 80,954,545 | 69,295,755 | 113,000,730 | 25,979,703 | 2.0x | 20.40% | 1.6x | |
| Evergreen Pacific Partners, L.P. | 2005 | Private Equity | 50,000,000 | 42,376,865 | 5,292,828 | - | 0.1x | (99.99%) | 0.1x | |



| | | PSERS Private Markets Portfolio Performance Summary by Investment as of December 31, 2017 | | | | | | | |
|--|--------------|---|----------------------|---------------|---------------|-------------|------|------------------------|------|
| Partnership | Vintage Year | Strategy | Capital Committed | Contributions | Distributions | NAV | МоС | Since Inception IRR | DPI |
| First Reserve Fund XI, L.P. | 2006 | Private Equity | 200,000,000 | 213,209,232 | 140,355,363 | - | 0.7x | (9.68%) | 0.7x |
| First Reserve Fund XII, L.P. | 2008 | Private Equity | 250,000,000 | 272,782,276 | 126,921,385 | 65,502,992 | 0.7x | (8.32%) | 0.5x |
| Furman Selz Investors II, L.P. | 1998 | Private Equity | 56,250,000 | 55,816,077 | 96,375,368 | - | 1.7x | 11.53% | 1.7x |
| Furman Selz Investors III, L.P. | 2000 | Private Equity | 100,000,000 | 95,025,051 | 206,864,610 | - | 2.2x | 22.58% | 2.2x |
| GoldPoint Partners Co-Investment V, L.P. | 2012 | Private Equity | 50,000,000 | 54,787,410 | 23,014,911 | 55,150,775 | 1.4x | 20.30% | 0.4x |
| Graham Partners | 1999 | Private Equity | 56,671,214 | 61,946,457 | 82,648,447 | - | 1.3x | 5.47% | 1.3x |
| Green Equity Investors II, L.P. | 1994 | Private Equity | 25,000,000 | 24,151,005 | 50,916,127 | - | 2.1x | 14.40% | 2.1x |
| Greenwich Street Capital Partners II, L.P. | 1998 | Private Equity | 200,000,000 | 216,105,302 | 214,588,348 | - | 1.0x | (0.13%) | 1.0x |
| GS Mezzanine Partners, LP | 1996 | Private Equity | 30,000,000 | 26,883,828 | 39,260,072 | - | 1.5x | 8.82% | 1.5x |
| Halifax Capital Partners | 1999 | Private Equity | 50,000,000 | 39,967,488 | 63,972,891 | - | 1.6x | 11.77% | 1.6x |
| Headland Private Equity Fund 6 Ltd. | 2008 | Private Equity | 200,000,000 | 187,330,868 | 215,392,572 | - | 1.1x | 5.08% | 1.1x |
| Heritage Fund I, L.P. | 1994 | Private Equity | 25,000,000 | 24,999,999 | 24,755,484 | - | 1.0x | (0.46%) | 1.0x |
| HgCapital 7, L.P. | 2013 | Private Equity | 101,194,090 | 103,954,084 | 24,274,401 | 119,830,734 | 1.4x | 15.60% | 0.2x |
| HgCapital 8, L.P. | 2017 | Private Equity | 128,179,181 | - | - | - | N/A | N/A | N/A |
| HGGC Fund II, L.P. | 2014 | Private Equity | 100,000,000 | 86,470,738 | 21,214,342 | 83,947,918 | 1.2x | 13.07% | 0.2x |
| HGGC Fund III, L.P. | 2017 | Private Equity | 125,000,000 | 28,549,037 | - | 28,346,637 | 1.0x | (0.78%) | - |
| Incline Equity Partners III, L.P. | 2011 | Private Equity | 65,000,000 | 66,791,031 | 58,918,044 | 48,959,838 | 1.6x | 28.75% | 0.9x |
| Incline Equity Partners IV, L.P. | 2017 | Private Equity | 90,000,000 | 1,545,193 | - | - | - | N/A | - |
| Irving Place Capital III SPV, L.P. | 2006 | Private Equity | 150,000,000 | 154,489,290 | 143,516,742 | 82,198,518 | 1.5x | 6.56% | 0.9x |
| Irving Place Capital MB-PSERS II, L.P. | 2000 | Private Equity | 300,000,000 | 285,417,494 | 462,567,326 | 13,379,170 | 1.7x | 12.67% | 1.6x |
| Jefferies Capital Partners IV, L.P. | 2005 | Private Equity | 100,000,000 | 95,270,050 | 108,935,198 | - | 1.1x | 2.85% | 1.1x |
| KKR 2006 Fund, L.P. | 2006 | Private Equity | 300,000,000 | 299,054,703 | 408,221,889 | - | 1.4x | 6.52% | 1.4x |
| KRG Capital Fund II (PA) L.P. | 2001 | Private Equity | 100,000,000 | 79,636,623 | 119,983,431 | - | 1.5x | 22.08% | 1.5x |
| KRG Capital Fund III, (PA) L.P. | 2005 | Private Equity | 88,000,000 | 88,076,832 | 77,248,244 | - | 0.9x | (2.67%) | 0.9x |
| KRG Capital Fund IV, L.P. | 2007 | Private Equity | 300,000,000 | 287,028,332 | 337,445,210 | - | 1.2x | 6.26% | 1.2x |
| KRG Capital Partners I, L.P. | 1999 | Private Equity | 50,000,000 | 43,261,578 | 91,634,458 | - | 2.1x | 17.75% | 2.1x |
| L Catterton Growth Partners III, L.P. | 2016 | Private Equity | 100,000,000 | 50,567,732 | - | 60,802,632 | 1.2x | 24.17% | - |
| L Catterton VIII, L.P. | 2016 | Private Equity | 100,000,000 | 15,704,617 | - | 13,634,115 | 0.9x | (18.40%) | - |
| Landmark Equity Partners III, LP | 1993 | Private Equity | 27,085,010 | 27,085,010 | 76,454,209 | - | 2.8x | 33.81% | 2.8x |
| Landmark Equity Partners IV, LP | 1994 | Private Equity | 10,533,687 | 10,254,032 | 15,424,473 | - | 1.5x | 16.66% | 1.5x |



| | | PSE Perfori | | | | | | | |
|--|--------------|----------------|----------------------|---------------|---------------|-------------|------|------------------------|------|
| Partnership | Vintage Year | Strategy | Capital Committed | Contributions | Distributions | NAV | МоС | Since Inception IRR | DPI |
| Landmark Equity Partners XIII, L.P. | 2006 | Private Equity | 100,000,000 | 96,088,084 | 97,050,791 | 26,209,364 | 1.3x | 5.21% | 1.0x |
| Landmark Equity Partners XIV, L.P. | 2008 | Private Equity | 150,000,000 | 144,427,169 | 141,249,991 | 48,674,285 | 1.3x | 10.02% | 1.0x |
| Landmark Mezzanine Partners | 1995 | Private Equity | 75,000,000 | 59,315,512 | 107,971,301 | - | 1.8x | 28.73% | 1.8x |
| Lehman Brothers Merchant Banking Partners II, L.P. | 1997 | Private Equity | 158,552,133 | 168,556,341 | 220,371,513 | - | 1.3x | 5.72% | 1.3x |
| Lexington Capital Partners I, L.P. | 1996 | Private Equity | 50,000,000 | 49,613,120 | 62,993,730 | - | 1.3x | 13.16% | 1.3x |
| Lindsay Goldberg & Bessemer, L.P. | 2002 | Private Equity | 300,000,000 | 313,151,311 | 732,870,069 | 52,762 | 2.3x | 34.18% | 2.3x |
| Milestone Partners II, L.P. | 2004 | Private Equity | 29,890,000 | 27,844,247 | 44,374,647 | - | 1.6x | 17.23% | 1.6x |
| Milestone Partners III, L.P. | 2008 | Private Equity | 60,000,000 | 61,078,376 | 55,613,526 | 6,366,871 | 1.0x | 0.28% | 0.9x |
| Milestone Partners IV, L.P. | 2011 | Private Equity | 70,000,000 | 66,219,433 | 40,571,570 | 63,061,301 | 1.6x | 13.23% | 0.6x |
| Morgan Stanley DW Capital Partners IV, L.P. | 1998 | Private Equity | 300,000,000 | 236,774,394 | 478,042,786 | - | 2.0x | 16.87% | 2.0x |
| Navis Asia Fund V, L.P. | 2007 | Private Equity | 100,000,000 | 121,024,807 | 181,335,725 | - | 1.5x | 8.83% | 1.5x |
| New Mountain Partners III, L.P. | 2007 | Private Equity | 300,000,000 | 303,716,978 | 379,734,739 | 206,970,166 | 1.9x | 13.54% | 1.3x |
| New Mountain Partners IV, L.P. | 2013 | Private Equity | 100,000,000 | 87,448,938 | 11,966,382 | 105,197,493 | 1.3x | 20.77% | 0.1x |
| New Mountain Partners V, L.P. | 2017 | Private Equity | 200,000,000 | 12,676,004 | - | 11,353,101 | 0.9x | (10.44%) | - |
| New Mountain Partners, L.P. | 2000 | Private Equity | 192,509,033 | 161,121,249 | 243,188,690 | - | 1.5x | 13.69% | 1.5x |
| New York Life Capital Partners I, L.P. | 1999 | Private Equity | 200,000,000 | 205,037,393 | 226,909,340 | 1,520,986 | 1.1x | 1.83% | 1.1x |
| New York Life Capital Partners II, L.P. | 2001 | Private Equity | 200,000,000 | 194,698,146 | 550,532,275 | 2,937,923 | 2.8x | 32.47% | 2.8x |
| New York Life Capital Partners III-A, L.P. | 2005 | Private Equity | 200,000,000 | 218,750,195 | 188,250,592 | 14,761,695 | 0.9x | (1.13%) | 0.9x |
| New York Life Capital Partners IV-A. L.P. | 2008 | Private Equity | 100,000,000 | 109,156,540 | 179,061,690 | 23,697,079 | 1.9x | 13.74% | 1.6x |
| NGP Natural Resources X, L.P. | 2012 | Private Equity | 100,000,000 | 98,660,027 | 65,411,876 | 51,184,810 | 1.2x | 6.12% | 0.7x |
| NGP Natural Resources XI, L.P. | 2014 | Private Equity | 100,000,000 | 77,963,892 | 11,573,665 | 88,730,101 | 1.3x | 27.12% | 0.1x |
| Nordic Capital VII Beta, L.P. | 2008 | Private Equity | 179,692,367 | 187,621,305 | 230,587,380 | - | 1.2x | 5.34% | 1.2x |
| North Haven Private Equity Asia IV, L.P. | 2013 | Private Equity | 100,000,000 | 81,237,348 | 13,903,066 | 84,905,397 | 1.2x | 8.82% | 0.2x |
| Odyssey Investment Partners Fund V, L.P. | 2014 | Private Equity | 100,000,000 | 59,906,520 | 13 | 48,684,393 | 0.8x | (17.44%) | 0.0x |
| Drchid Asia Fund VI, L.P. | 2014 | Private Equity | 75,000,000 | 42,989,707 | 13,461,451 | 34,677,022 | 1.1x | 11.07% | 0.3x |
| Drchid Asia V, L.P. | 2011 | Private Equity | 40,000,000 | 35,382,635 | 49,714,052 | 11,504,629 | 1.7x | 28.02% | 1.4x |
| Orchid Asia VII, L.P. | 2017 | Private Equity | 75,000,000 | - | - | - | N/A | N/A | N/A |
| PAI Europe III | 2001 | Private Equity | 359,384,733 | 335,956,000 | 1,112,343,391 | - | 3.3x | 38.15% | 3.3x |
| PAI Europe IV | 2005 | Private Equity | 119,794,911 | 131,323,788 | 184,315,999 | 13,296,258 | 1.5x | 9.45% | 1.4x |
| PAI Europe V | 2008 | Private Equity | 119,794,911 | 127,525,077 | 176,151,053 | 34,852,357 | 1.7x | 8.78% | 1.4x |



| | | PSE Perfori | | | | | | | |
|--|--------------|----------------|----------------------|---------------|---------------|-------------|------|------------------------|------|
| Partnership | Vintage Year | Strategy | Capital Committed | Contributions | Distributions | NAV | MoC | Since Inception IRR | DPI |
| PAI Europe VI | 2015 | Private Equity | 119,794,911 | 68,782,196 | 26,508,591 | 62,484,486 | 1.3x | 17.13% | 0.4x |
| Palladium Equity Partners II-A, L.P. | 2000 | Private Equity | 57,750,000 | 65,179,491 | 84,880,449 | 53,049,220 | 2.1x | 8.40% | 1.3x |
| Palladium Equity Partners IV, L.P. | 2012 | Private Equity | 75,000,000 | 55,503,757 | 24,164,004 | 54,527,814 | 1.4x | 16.99% | 0.4x |
| Partners Group Secondary 2008 S.C.A., SICAR | 2007 | Private Equity | 179,692,367 | 178,460,407 | 232,373,519 | 33,491,582 | 1.5x | 8.96% | 1.3x |
| Partners Group Secondary 2011 (USD), L.P. Inc. | 2011 | Private Equity | 100,000,000 | 63,330,430 | 50,233,961 | 58,324,707 | 1.7x | 19.17% | 0.8x |
| Partners Group Secondary 2015 (USD) A, L.P. | 2015 | Private Equity | 100,000,000 | 18,626,765 | 625,079 | 22,730,546 | 1.3x | 21.38% | 0.0x |
| Permira IV, L.P. | 2006 | Private Equity | 149,743,639 | 167,234,190 | 234,085,718 | 38,049,138 | 1.6x | 8.82% | 1.4x |
| Platinum Equity Capital Partners II, L.P. | 2007 | Private Equity | 300,000,000 | 282,855,243 | 410,733,859 | 48,296,119 | 1.6x | 13.05% | 1.5x |
| Platinum Equity Capital Partners III, L.P. | 2012 | Private Equity | 200,000,000 | 166,270,841 | 171,756,029 | 160,053,154 | 2.0x | 34.77% | 1.0x |
| Platinum Equity Capital Partners IV, L.P. | 2016 | Private Equity | 300,000,000 | 75,013,077 | 13,019,140 | 68,562,304 | 1.1x | 15.04% | 0.2x |
| Platinum Equity Capital Partners, L.P. | 2004 | Private Equity | 125,000,000 | 98,160,349 | 250,769,692 | 8,795,347 | 2.6x | 59.95% | 2.6x |
| PNC Equity Partners II, L.P. | 2007 | Private Equity | 68,065,386 | 59,165,567 | 117,358,956 | 6,027,602 | 2.1x | 14.62% | 2.0x |
| PNC Equity Partners, L.P. | 2001 | Private Equity | 43,154,458 | 39,619,636 | 77,640,378 | - | 2.0x | 21.11% | 2.0x |
| Portfolio Advisors Secondary Fund III, L.P. | 2017 | Private Equity | 125,000,000 | - | - | - | N/A | N/A | N/A |
| Providence Equity Partners VI, L.P. | 2007 | Private Equity | 300,000,000 | 316,291,227 | 403,436,046 | - | 1.3x | 5.69% | 1.3x |
| Quadrangle Capital Partners II, L.P. | 2005 | Private Equity | 250,000,000 | 227,201,835 | 296,569,830 | - | 1.3x | 5.70% | 1.3x |
| Quadrangle Capital Partners, L.P. | 2001 | Private Equity | 270,422,415 | 225,438,094 | 386,739,733 | - | 1.7x | 11.07% | 1.7x |
| StepStone International Investors III L.P. | 2007 | Private Equity | 119,794,911 | 136,545,584 | 100,388,295 | 16,934,962 | 0.9x | (2.97%) | 0.7x |
| Sterling Capital Partners, L.P. | 2002 | Private Equity | 75,000,000 | 84,393,474 | 163,071,264 | 6,956,824 | 2.0x | 17.93% | 1.9x |
| Strategic Feeder, L.P. | 2001 | Private Equity | 200,000,000 | 194,687,388 | 308,973,117 | - | 1.6x | 16.81% | 1.6x |
| Strategic Partners Fund II, L.P. | 2003 | Private Equity | 300,000,000 | 265,036,203 | 473,114,585 | - | 1.8x | 34.14% | 1.8x |
| Strategic Partners Fund III-B, L.P. | 2005 | Private Equity | 200,000,000 | 218,441,655 | 268,286,344 | 29,159,284 | 1.4x | 6.47% | 1.2x |
| Strategic Partners Fund IV, L.P. | 2008 | Private Equity | 100,000,000 | 95,529,401 | 133,462,123 | 20,184,386 | 1.6x | 13.45% | 1.4x |
| Strategic Partners Fund V, L.P. | 2011 | Private Equity | 150,000,000 | 119,867,016 | 148,484,479 | 47,574,304 | 1.6x | 20.70% | 1.2x |
| Strategic Partners Fund VI, L.P. | 2014 | Private Equity | 150,000,000 | 97,172,028 | 61,586,048 | 82,993,256 | 1.5x | 24.63% | 0.6x |
| Strategic Partners Fund VII, L.P. | 2016 | Private Equity | 250,000,000 | 83,923,264 | 7,256,868 | 108,354,762 | 1.4x | 127.19% | 0.1x |
| Sunrise Capital Partners, L.P. | 1998 | Private Equity | 57,388,755 | 57,104,502 | 20,834,805 | - | 0.4x | (15.59%) | 0.4x |
| The Energy & Minerals Group Fund III, L.P. | 2014 | Private Equity | 100,000,000 | 94,381,858 | 5,509,664 | 80,512,832 | 0.9x | (3.39%) | 0.1x |
| TPG Partners II, L.P. | 1997 | Private Equity | 50,000,000 | 53,854,393 | 91,361,723 | - | 1.7x | 9.93% | 1.7x |
| TPG Partners V, L.P. | 2006 | Private Equity | 250,000,000 | 261,876,873 | 307,855,529 | - | 1.2x | 3.11% | 1.2x |



| | | PSERS Performar as (| | | | | | | |
|--|--------------|-------------------------------|----------------------|------------------|------------------|-----------------|------|------------------------|------|
| Partnership | Vintage Year | Strategy | Capital Committed | Contributions | Distributions | NAV | МоС | Since Inception IRR | DPI |
| TPG Partners VI, L.P. | 2008 | Private Equity | 360,000,000 | 364,618,439 | 486,773,394 | - | 1.3x | 10.75% | 1.3x |
| TPG Partners, L.P. | 1993 | Private Equity | 24,194,356 | 24,465,437 | 89,300,776 | - | 3.7x | 36.55% | 3.7x |
| Trilantic Capital Partners IV L.P. | 2007 | Private Equity | 76,752,676 | 79,177,644 | 111,017,479 | 17,763,202 | 1.6x | 14.42% | 1.4x |
| Trilantic Capital Partners V (North America), L.P. | 2013 | Private Equity | 100,000,000 | 95,766,260 | 51,782,690 | 81,549,957 | 1.4x | 17.11% | 0.5x |
| U.S. Equity Partners II, L.P. | 2002 | Private Equity | 300,000,000 | 222,858,123 | 400,784,550 | - | 1.8x | 14.12% | 1.8x |
| U.S. Equity Partners, L.P. | 1996 | Private Equity | 75,000,000 | 76,336,235 | 69,738,856 | - | 0.9x | (1.56%) | 0.9x |
| Wicks Communications and Media Partners, L.P. | 1999 | Private Equity | 87,500,000 | 88,993,376 | 115,304,727 | - | 1.3x | 8.57% | 1.3x |
| Willis Stein & Partners, L.P. | 1996 | Private Equity | 25,000,000 | 25,004,635 | 53,581,016 | - | 2.1x | 20.65% | 2.1x |
| Private Equity Portfolio Total | | | \$21,174,212,439 | \$18,629,459,150 | \$23,198,812,904 | \$5,095,169,961 | 1.5x | 11.82% | 1.2x |
| PSERS Private Equity Internal Portfolio | | | | | | | | | |
| ERT | 2016 | PSERS Private Equity Internal | \$10,734,383 | \$10,734,383 | - | \$20,106,658 | 1.9x | 45.34% | - |
| Evans Network | 2017 | PSERS Private Equity Internal | 10,094,952 | 10,000,708 | - | 14,295,194 | 1.4x | 42.94% | - |
| Lasko | 2016 | PSERS Private Equity Internal | 10,744,628 | 8,195,963 | 2,250,542 | 8,286,443 | 1.3x | 27.26% | 0.3x |
| PEIP #1 | 2012 | PSERS Private Equity Internal | 14,999,081 | 6,197,536 | 21,250,602 | 4,568,298 | 4.2x | 49.97% | 3.4x |
| PEIP #10 | 2013 | PSERS Private Equity Internal | 14,982,607 | 6,864,841 | 5,830,058 | 6,060,754 | 1.7x | 16.05% | 0.8x |
| PEIP #12 | 2014 | PSERS Private Equity Internal | 15,000,000 | 12,086,263 | 42,224,684 | 1,088,831 | 3.6x | 46.07% | 3.5x |
| PEIP #13 | 2014 | PSERS Private Equity Internal | 13,000,000 | 13,035,722 | 94,207,284 | - | 7.2x | 90.60% | 7.2x |
| PEIP #14 | 2014 | PSERS Private Equity Internal | 13,000,000 | 10,000,000 | 497,386 | 19,681,202 | 2.0x | 22.27% | 0.0x |
| PEIP #15 | 2014 | PSERS Private Equity Internal | 6,000,000 | 6,000,000 | - | 6,000,000 | 1.0x | 0.00% | - |
| PEIP #16 | 2014 | PSERS Private Equity Internal | 16,380,929 | 7,564,537 | 4,973,746 | 8,990,872 | 1.8x | 23.53% | 0.7x |
| PEIP #17 | 2014 | PSERS Private Equity Internal | 10,000,000 | 10,000,000 | - | 22,549,800 | 2.3x | 28.38% | - |
| PEIP #18 | 2014 | PSERS Private Equity Internal | 15,000,000 | 11,980,689 | 2,781,354 | 10,589,724 | 1.1x | 4.77% | 0.2x |
| PEIP #19 | 2015 | PSERS Private Equity Internal | 15,000,000 | 15,175,000 | - | - | - | N/A | - |
| PEIP #2 | 2012 | PSERS Private Equity Internal | 12,466,932 | 13,878,761 | 33,036,817 | - | 2.4x | 44.43% | 2.4x |
| PEIP #20 | 2015 | PSERS Private Equity Internal | 15,000,000 | 12,362,967 | 862,549 | 16,682,856 | 1.4x | 14.26% | 0.1x |
| PEIP #21 | 2015 | PSERS Private Equity Internal | 15,000,000 | 15,012,260 | - | 17,219,270 | 1.1x | 6.23% | - |
| PEIP #22 | 2015 | PSERS Private Equity Internal | 14,617,943 | 14,758,714 | 4,208,263 | 15,848,014 | 1.4x | 17.05% | 0.3x |
| PEIP #23 | 2016 | PSERS Private Equity Internal | 15,000,000 | 11,000,000 | _ | 15,406,087 | 1.4x | 19.69% | - |
| PEIP #24 | 2016 | PSERS Private Equity Internal | 5,000,000 | 5,000,000 | - | 7,500,000 | 1.5x | 29.35% | - |
| PEIP #25 | 2016 | PSERS Private Equity Internal | 7,000,000 | 5,000,000 | - | 6,135,970 | 1.2x | 11.80% | - |



| | | Performar | Private Markets ace Summary by of December 31, 2 | Investment | | | | | |
|---|--------------|-------------------------------|--|---------------|---------------|---------------|------|------------------------|------|
| Partnership | Vintage Year | Strategy | Capital Committed | Contributions | Distributions | NAV | МоС | Since Inception IRR | DPI |
| PEIP #26 | 2016 | PSERS Private Equity Internal | 7,000,000 | 5,005,029 | - | 4,933,903 | 1.0x | (0.80%) | - |
| PEIP #27 | 2016 | PSERS Private Equity Internal | 16,221,158 | 16,654,100 | - | 30,242,342 | 1.8x | 57.99% | - |
| PEIP #28 | 2016 | PSERS Private Equity Internal | 15,000,000 | 14,383,229 | - | 10,902,317 | 0.8x | (15.21%) | - |
| PEIP #29 | 2016 | PSERS Private Equity Internal | 15,573,338 | 14,844,131 | - | 25,069,259 | 1.7x | 36.31% | - |
| PEIP #3 | 2012 | PSERS Private Equity Internal | 8,680,785 | 10,000,061 | 25,540,380 | - | 2.6x | 22.48% | 2.6x |
| PEIP #30 | 2016 | PSERS Private Equity Internal | 15,000,000 | 15,030,405 | - | 18,677,969 | 1.2x | 14.16% | - |
| PEIP #31 | 2016 | PSERS Private Equity Internal | 16,172,313 | 13,351,251 | - | 16,061,522 | 1.2x | 15.88% | - |
| PEIP #32 | 2016 | PSERS Private Equity Internal | 12,000,000 | 14,549,622 | - | 17,175,099 | 1.2x | 20.08% | - |
| PEIP #33 | 2016 | PSERS Private Equity Internal | 9,900,000 | 9,900,000 | - | 10,075,683 | 1.0x | 1.53% | - |
| PEIP #34 | 2017 | PSERS Private Equity Internal | 10,000,000 | 10,055,734 | - | 6,839,149 | 0.7x | (31.99%) | - |
| PEIP #35 | 2017 | PSERS Private Equity Internal | 12,000,000 | 10,000,000 | - | 10,339,975 | 1.0x | 3.40% | - |
| PEIP #36 | 2017 | PSERS Private Equity Internal | 11,979,491 | 10,556,541 | - | 13,873,370 | 1.3x | 31.42% | - |
| PEIP #37 | 2017 | PSERS Private Equity Internal | 15,000,000 | 15,000,000 | - | 16,826,134 | 1.1x | 12.17% | - |
| PEIP #38 | 2017 | PSERS Private Equity Internal | 5,000,000 | 5,000,000 | - | 4,999,273 | 1.0x | (0.01%) | - |
| PEIP #39 | 2017 | PSERS Private Equity Internal | 14,841,800 | 14,472,033 | - | 13,169,714 | 0.9x | (9.00%) | - |
| PEIP #4 | 2012 | PSERS Private Equity Internal | 10,000,000 | 7,500,000 | 12,669,791 | 223,183 | 1.7x | 11.78% | 1.7x |
| PEIP #40 | 2017 | PSERS Private Equity Internal | 17,282,093 | 14,368,457 | - | 14,758,207 | 1.0x | 2.71% | - |
| PEIP #6 | 2013 | PSERS Private Equity Internal | 11,212,378 | 10,161,660 | 18,637,633 | - | 1.8x | 16.06% | 1.8x |
| PEIP #7 | 2013 | PSERS Private Equity Internal | 12,007,603 | 12,281,374 | 8,507,605 | 19,131,767 | 2.3x | 22.30% | 0.7x |
| PEIP #8 | 2013 | PSERS Private Equity Internal | 11,230,773 | 11,506,442 | 14,385,359 | 26,628,198 | 3.6x | 34.37% | 1.3x |
| PS-PEIP #1 | 2013 | PSERS Private Equity Internal | 2,500,000 | 2,500,000 | - | 3,777,732 | 1.5x | 8.96% | - |
| Woodstream | 2015 | PSERS Private Equity Internal | 8,682,106 | 8,682,106 | - | 17,484,125 | 2.0x | 36.80% | - |
| PSERS Private Equity Internal Portfolio Total | | | \$506,305,293 | \$450,650,521 | \$291,864,053 | \$482,198,894 | 1.7x | 27.75% | 0.6x |
| Special Situations Portfolio | | | | | | | | | |
| Apollo Investment Fund IX, L.P. | 2017 | Special Situations | \$225,000,000 | - | - | - | N/A | N/A | N/A |
| Apollo Investment Fund VIII, L.P. | 2013 | Special Situations | 220,000,000 | 169,058,593 | 38,389,164 | 194,916,159 | 1.4x | 20.39% | 0.2x |
| Avenue Asia Special Situations Fund II, L.P. | 2001 | Special Situations | 220,000,000 | 220,000,000 | 413,276,527 | - | 1.9x | 21.47% | 1.9x |
| Avenue Asia Special Situations Fund III, L.P. | 2003 | Special Situations | 100,000,000 | 76,892,230 | 114,952,589 | - | 1.5x | 8.41% | 1.5x |
| Avenue Asia Special Situations Fund IV, L.P. | 2006 | Special Situations | 300,000,000 | 225,070,059 | 244,482,023 | 2,155,957 | 1.1x | 1.99% | 1.1x |
| Avenue Europe Special Situations Fund, L.P. | 2008 | Special Situations | 239,589,822 | 260,544,517 | 362,645,255 | - | 1.4x | 12.18% | 1.4x |



| | | PSEF Perform a | | | | | | | |
|---|--------------|----------------------|----------------------|-----------------|-----------------|-----------------|------|------------------------|------|
| Partnership | Vintage Year | Strategy | Capital Committed | Contributions | Distributions | NAV | МоС | Since Inception IRR | DPI |
| Avenue Special Situations Fund II, L.P. | 2000 | Special Situations | 125,000,000 | 126,838,089 | 199,775,750 | - | 1.6x | 19.22% | 1.6x |
| Avenue Special Situations Fund IV, L.P. | 2006 | Special Situations | 115,000,000 | 144,782,669 | 190,119,308 | - | 1.3x | 8.40% | 1.3x |
| Avenue Special Situations Fund V, L.P. | 2007 | Special Situations | 300,000,000 | 301,785,852 | 399,729,589 | - | 1.3x | 11.07% | 1.3x |
| Avenue Special Situations Fund VI, L.P. | 2010 | Special Situations | 75,000,000 | 76,892,726 | 71,263,146 | 10,134,847 | 1.1x | 1.36% | 0.9x |
| Avenue Special Situations III, L.P. | 2002 | Special Situations | 205,156,000 | 152,853,651 | 259,715,762 | - | 1.7x | 18.53% | 1.7x |
| Cerberus Institutional Partners L.P. (Series Two) | 2001 | Special Situations | 200,000,000 | 173,047,901 | 539,482,234 | 325,817 | 3.1x | 27.08% | 3.1x |
| Cerberus Institutional Partners V, L.P. | 2012 | Special Situations | 200,000,000 | 212,359,277 | 154,262,129 | 182,833,090 | 1.6x | 13.59% | 0.7x |
| Cerberus Institutional Partners VI, L.P. | 2015 | Special Situations | 200,000,000 | 83,928,933 | 872,857 | 104,378,679 | 1.3x | 27.98% | 0.0x |
| Cerberus Institutional Partners, L.P Series 3 | 2003 | Special Situations | 100,000,000 | 81,055,777 | 158,075,035 | 4,901,454 | 2.0x | 12.93% | 2.0x |
| Cerberus Institutional Partners, L.P. (Series 4) | 2006 | Special Situations | 400,000,000 | 369,661,873 | 560,584,542 | 98,689,985 | 1.8x | 9.18% | 1.5x |
| Clearlake Capital Partners IV, L.P. | 2015 | Special Situations | 57,500,000 | 49,225,713 | 32,459,371 | 35,711,720 | 1.4x | 33.16% | 0.7x |
| Clearlake Capital Partners V, L.P. | 2017 | Special Situations | 100,000,000 | - | - | - | N/A | N/A | N/A |
| Gleacher Mezzanine Fund I, L.P. | 2001 | Special Situations | 75,000,000 | 63,450,304 | 95,943,900 | - | 1.5x | 20.30% | 1.5x |
| Gleacher Mezzanine Fund II, L.P. | 2007 | Special Situations | 100,000,000 | 91,977,798 | 121,870,338 | 852,816 | 1.3x | 10.64% | 1.3x |
| Gold Hill Venture Lending 03, L.P. | 2004 | Special Situations | 50,000,000 | 50,000,000 | 80,869,970 | 1,315,411 | 1.6x | 10.82% | 1.6x |
| GSC Partners CDO Investors III, L.P. | 2001 | Special Situations | 80,000,000 | 80,000,000 | 146,903,688 | - | 1.8x | 18.58% | 1.8x |
| GSC Partners CDO Investors IV, L.P. | 2003 | Special Situations | 80,000,000 | 80,000,000 | 114,506,209 | - | 1.4x | 7.17% | 1.4x |
| GSC Recovery II, L.P. | 2000 | Special Situations | 280,000,000 | 279,170,771 | 430,042,246 | 364,060 | 1.5x | 10.14% | 1.5x |
| GSC Recovery III (Parallel Fund), L.P. | 2005 | Special Situations | 200,000,000 | 201,932,340 | 264,913,449 | 1,263,908 | 1.3x | 6.61% | 1.3x |
| NYLIM Mezzanine Partners (Parallel Fund) L.P. | 2003 | Special Situations | 75,000,000 | 69,106,090 | 91,497,156 | 1,491,326 | 1.3x | 9.89% | 1.3x |
| YLIM Mezzanine Partners II (Parallel Fund) LP | 2006 | Special Situations | 150,000,000 | 166,110,003 | 207,312,206 | 3,030,230 | 1.3x | 6.93% | 1.2x |
| DCM Opportunities Fund VII, L.P. | 2007 | Special Situations | 75,000,000 | 75,000,000 | 96,363,822 | 6,768,870 | 1.4x | 7.45% | 1.3x |
| DCM Opportunities Fund VII-B, L.P. | 2008 | Special Situations | 225,000,000 | 202,500,000 | 333,854,763 | 15,929,921 | 1.7x | 16.61% | 1.6x |
| Searchlight Capital Partners II, L.P. | 2015 | Special Situations | 74,000,000 | 29,208,310 | 5,799,094 | 37,357,493 | 1.5x | 35.96% | 0.2x |
| /enor Special Situations Fund II, L.P. | 2015 | Special Situations | 100,000,000 | 100,000,000 | 1,428 | 117,556,724 | 1.2x | 10.63% | 0.0x |
| /ersa Capital Fund I, L.P. | 2005 | Special Situations | 75,000,000 | 88,545,177 | 61,962,726 | 44,989,819 | 1.2x | 4.12% | 0.7x |
| /ersa Capital Fund II, L.P. | 2008 | Special Situations | 150,000,000 | 166,537,949 | 69,684,348 | 100,697,674 | 1.0x | 0.60% | 0.4x |
| /ersa Capital Fund III, L.P. | 2015 | Special Situations | 150,000,000 | 82,500,000 | 2,250,000 | 49,028,164 | 0.6x | (33.14%) | 0.0x |
| Vindjammer Senior Equity Fund III, L.P. | 2006 | Special Situations | 50,000,000 | 45,230,610 | 96,464,270 | 10,246,512 | 2.4x | 19.58% | 2.1x |
| Vindjammer Senior Equity Fund IV, L.P. | 2012 | Special Situations | 100,000,000 | 75,418,782 | 4,678,650 | 89,556,245 | 1.2x | 8.58% | 0.1x |
| Special Situations Portfolio Total | | | \$5,471,245,822 | \$4,670,685,995 | \$5,965,003,544 | \$1,114,496,882 | 1.5x | 13.19% | 1.3x |



| | | PSERS Private Markets Portfolio Performance Summary by Investment as of December 31, 2017 | | | | | | | |
|--|--------------|---|----------------------|---------------|---------------|-------------|------|------------------------|------|
| Partnership | Vintage Year | Strategy | Capital Committed | Contributions | Distributions | NAV | МоС | Since Inception IRR | DPI |
| Venture Capital Portfolio | | | | | | | | | |
| Adams Capital Management, L.P. | 1997 | Venture Capital | \$12,500,000 | \$12,500,000 | \$22,671,838 | \$303,596 | 1.8x | 44.80% | 1.8x |
| Aisling Capital II, L.P. | 2006 | Venture Capital | 50,000,000 | 58,976,154 | 50,704,240 | 9,678,871 | 1.0x | 0.43% | 0.9x |
| Aisling Capital III, L.P. | 2008 | Venture Capital | 50,000,000 | 56,211,540 | 72,367,736 | 34,937,024 | 1.9x | 23.45% | 1.3x |
| Aisling Capital IV, L.P. | 2016 | Venture Capital | 100,000,000 | 47,268,918 | 3,084,772 | 54,681,296 | 1.2x | 25.45% | 0.1x |
| APA/Fostin Venture Fund I, L.P. | 1987 | Venture Capital | 20,000,000 | 20,000,000 | 77,132,193 | - | 3.9x | 19.88% | 3.9x |
| CEO Venture Fund I, L.P. | 1987 | Venture Capital | 1,000,000 | 1,000,000 | 1,101,749 | - | 1.1x | 1.43% | 1.1x |
| CEO Venture Fund II, L.P. | 1989 | Venture Capital | 15,000,000 | 15,000,000 | 10,651,730 | - | 0.7x | (4.17%) | 0.7x |
| Co-Investment 2000 Fund, L.P. | 2000 | Venture Capital | 135,000,000 | 135,000,000 | 212,362,128 | 1,435,358 | 1.6x | 7.66% | 1.6x |
| Co-Investment Fund II, L.P. | 2006 | Venture Capital | 135,000,000 | 134,811,285 | 50,229,127 | 102,349,702 | 1.1x | 1.78% | 0.4x |
| Commonwealth Venture Partners I | 1986 | Venture Capital | 20,000,000 | 20,000,000 | 20,584,156 | - | 1.0x | 0.30% | 1.0x |
| Commonwealth Venture Partners II | 1992 | Venture Capital | 10,000,000 | 10,000,000 | 15,214,766 | - | 1.5x | 15.10% | 1.5x |
| Cross Atlantic Technology Fund II, L.P. | 2001 | Venture Capital | 21,119,734 | 21,119,734 | 21,562,069 | 123,698 | 1.0x | 0.44% | 1.0x |
| Cross Atlantic Technology Fund, L.P. | 1999 | Venture Capital | 30,141,666 | 30,357,584 | 35,781,536 | 1,315,919 | 1.2x | 2.71% | 1.2x |
| Edison II-PA Venture Fund | 1991 | Venture Capital | 10,000,000 | 10,000,000 | 25,972,603 | - | 2.6x | 22.19% | 2.6x |
| Edison Venture Fund III, L.P. | 1994 | Venture Capital | 14,807,690 | 14,807,690 | 28,785,013 | - | 1.9x | 18.19% | 1.9x |
| Franklin Capital Associates III, L.P. | 1995 | Venture Capital | 15,000,000 | 15,000,000 | 14,558,465 | - | 1.0x | (0.33%) | 1.0x |
| Genesis Seed Fund | 1987 | Venture Capital | 2,000,000 | 2,000,000 | 815,687 | - | 0.4x | (12.43%) | 0.4x |
| Grotech Capital Partners IV, L.P. | 1993 | Venture Capital | 25,000,000 | 25,000,000 | 44,210,693 | - | 1.8x | 15.67% | 1.8x |
| lefferson Partners Fund IV, L.P. | 2003 | Venture Capital | 23,244,498 | 24,583,511 | 219,088 | - | 0.0x | (54.80%) | 0.0x |
| KBL Partnership, L.P. | 1999 | Venture Capital | 13,743,333 | 13,711,864 | 6,919,745 | 1,717,812 | 0.6x | (6.68%) | 0.5x |
| Keystone Minority Capital Fund | 1994 | Venture Capital | 114,865 | 114,865 | 15,365 | - | 0.1x | (15.91%) | 0.1x |
| Keystone Venture Fund IV, L.P. | 1993 | Venture Capital | 7,766,667 | 7,766,666 | 5,904,516 | - | 0.8x | (8.41%) | 0.8x |
| andmark Equity Partners II, L.P. | 1992 | Venture Capital | 25,000,000 | 25,000,000 | 39,042,318 | - | 1.6x | 24.34% | 1.6x |
| andmark Equity Partners V, L.P. | 1995 | Venture Capital | 49,060,283 | 48,481,948 | 59,506,502 | 71,841 | 1.2x | 8.28% | 1.2x |
| ehman Brothers Communications Partners, L.P. | 1999 | Venture Capital | 12,500,000 | 11,442,260 | 5,210,205 | - | 0.5x | (13.81%) | 0.5x |
| LR Equity Partners II, L.P. | 2004 | Venture Capital | 75,000,000 | 75,003,401 | 126,789,636 | 8,782,421 | 1.8x | 12.43% | 1.7x |
| LR Equity Partners III, L.P. | 2008 | Venture Capital | 187,500,000 | 168,296,850 | 223,727,218 | 72,651,379 | 1.8x | 14.89% | 1.3x |
| LR Equity Partners IV, L.P. | 2013 | Venture Capital | 200,000,000 | 174,000,000 | 91,951,682 | 177,603,595 | 1.5x | 25.51% | 0.5x |
| LR Equity Partners V, L.P. | 2017 | Venture Capital | 200,000,000 | _ | - | - | N/A | N/A | N/A |



| PSERS Private Markets Portfolio Performance Summary by Investment as of December 31, 2017 | | | | | | | | | | |
|---|--------------|-----------------|----------------------|---------------|---------------|------------|------|------------------------|------|--|
| Partnership | Vintage Year | Strategy | Capital Committed | Contributions | Distributions | NAV | MoC | Since Inception IRR | DPI | |
| LLR Equity Partners, L.P. | 1999 | Venture Capital | 62,500,000 | 61,344,870 | 131,600,274 | - | 2.1x | 21.74% | 2.1x | |
| Loyalhanna Venture Fund | 1987 | Venture Capital | 15,000,000 | 15,000,000 | 21,446,203 | - | 1.4x | 3.58% | 1.4x | |
| NEPA Venture Fund I | 1985 | Venture Capital | 1,000,000 | 1,000,000 | 6,080,528 | - | 6.1x | 17.08% | 6.1x | |
| NEPA Venture Fund II | 1992 | Venture Capital | 5,000,000 | 5,000,000 | 23,252,576 | 626,844 | 4.8x | 38.02% | 4.7x | |
| Novitas Capital II, L.P. | 2000 | Venture Capital | 75,000,000 | 74,775,000 | 16,507,112 | - | 0.2x | (19.47%) | 0.2x | |
| Novitas Capital, L.P. | 1998 | Venture Capital | 30,000,000 | 29,952,000 | 35,182,565 | - | 1.2x | 9.02% | 1.2x | |
| P/A Fund | 1993 | Venture Capital | 30,000,000 | 30,000,000 | 66,835,233 | - | 2.2x | 18.83% | 2.2x | |
| Perseus-Soros BioPharmaceutical Fund, L.P. | 2001 | Venture Capital | 112,206,666 | 124,112,299 | 202,156,748 | 333,000 | 1.6x | 20.27% | 1.6x | |
| Psilos Group Partners III, L.P. | 2007 | Venture Capital | 62,500,000 | 64,471,078 | 32,146,734 | 44,201,724 | 1.2x | 2.93% | 0.5x | |
| Quaker BioVentures II, L.P. | 2007 | Venture Capital | 100,000,000 | 97,153,932 | 71,161,421 | 36,320,053 | 1.1x | 2.53% | 0.7x | |
| Quaker Bio-Ventures, L.P. | 2003 | Venture Capital | 69,350,000 | 69,458,692 | 27,445,322 | 1,069,612 | 0.4x | (13.19%) | 0.4x | |
| SCP Private Equity Partners I, L.P. | 1996 | Venture Capital | 62,500,000 | 63,285,918 | 43,172,864 | 55,214 | 0.7x | (6.40%) | 0.7x | |
| SCP Private Equity Partners II, L.P. | 2000 | Venture Capital | 125,000,000 | 129,745,343 | 41,010,860 | 16,766,699 | 0.4x | (8.47%) | 0.3x | |
| Spectrum Equity Investors, L.P. | 1994 | Venture Capital | 25,000,000 | 25,000,000 | 52,261,392 | - | 2.1x | 23.59% | 2.1x | |
| StarVest | 1999 | Venture Capital | 67,500,000 | 65,659,367 | 113,383,601 | 366,447 | 1.7x | 7.37% | 1.7x | |
| StarVest Partners II (Parallel), L.P. | 2007 | Venture Capital | 50,000,000 | 49,143,950 | 10,263,263 | 33,741,757 | 0.9x | (1.91%) | 0.2x | |
| Sterling Venture Partners I, L.P. | 2000 | Venture Capital | 33,986,000 | 36,115,022 | 39,229,955 | 251,794 | 1.1x | 1.66% | 1.1x | |
| Strategic Partners Fund III VC, L.P. | 2005 | Venture Capital | 50,000,000 | 56,373,094 | 63,686,146 | 11,324,310 | 1.3x | 6.21% | 1.1x | |
| Strategic Partners Fund IV VC, L.P. | 2008 | Venture Capital | 50,000,000 | 58,239,596 | 64,337,369 | 15,132,100 | 1.4x | 7.59% | 1.1x | |
| Summit Partners Growth Equity Fund IX, L.P. | 2015 | Venture Capital | 100,000,000 | 18,306,174 | 9,979,800 | 15,641,136 | 1.4x | 69.86% | 0.5x | |
| Summit Partners Growth Equity Fund VIII, L.P. | 2012 | Venture Capital | 100,000,000 | 106,525,469 | 90,224,047 | 92,626,622 | 1.7x | 23.05% | 0.8x | |
| Summit Partners Venture Capital Fund III, L.P. | 2012 | Venture Capital | 25,000,000 | 25,522,500 | 20,306,372 | 26,876,403 | 1.8x | 18.95% | 0.8x | |
| Summit Partners Venture Capital Fund IV, L.P. | 2015 | Venture Capital | 50,000,000 | 18,756,575 | 7,050,895 | 17,804,869 | 1.3x | 35.88% | 0.4x | |
| TDH III, L.P. | 1993 | Venture Capital | 7,350,750 | 7,350,750 | 4,874,316 | - | 0.7x | (5.23%) | 0.7x | |
| Technology Leaders, L.P. | 1992 | Venture Capital | 10,000,000 | 10,000,000 | 22,111,898 | - | 2.2x | 23.24% | 2.2x | |
| Tenaya Capital IV-P, L.P. | 2003 | Venture Capital | 75,000,000 | 72,679,657 | 87,202,386 | 35,533,250 | 1.7x | 7.99% | 1.2x | |
| Tenaya Capital VI, L.P. | 2012 | Venture Capital | 50,000,000 | 45,381,358 | - | 46,426,777 | 1.0x | 0.63% | - | |



| | PSERS Private Markets Portfolio Performance Summary by Investment as of December 31, 2017 | | | | | | | | | |
|---------------------------------|---|-----------------|----------------------|------------------|------------------|-----------------|------|------------------------|------|--|
| Partnership | Vintage Year | Strategy | Capital Committed | Contributions | Distributions | NAV | MoC | Since Inception IRR | DPI | |
| Tenaya Capital VII, L.P. | 2015 | Venture Capital | 100,000,000 | 38,227,440 | 5,845,583 | 34,845,284 | 1.1x | 4.00% | 0.2x | |
| Tenaya Capital V-P, L.P. | 2007 | Venture Capital | 75,000,000 | 70,433,806 | 90,683,782 | 54,932,221 | 2.1x | 18.18% | 1.3x | |
| TL Ventures III, L.P. | 1997 | Venture Capital | 50,000,000 | 50,000,000 | 69,245,707 | - | 1.4x | 24.67% | 1.4x | |
| Venture Capital Portfolio Total | | | \$3,129,392,152 | \$2,696,468,161 | \$2,735,761,729 | \$950,528,629 | 1.4x | 7.38% | 1.0x | |
| Total Portfolio | | | \$30,281,155,706 | \$26,447,263,826 | \$32,191,442,230 | \$7,642,394,365 | 1.5x | 11.41% | 1.2x | |



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Any tables, graphs or charts relating to past performance included in this report are intended only to illustrate the performance of the funds or the portfolio companies referred to for the historical periods shown. Such tables, graphs and charts are not intended to predict future performance and should not be used as the basis for an investment decision.



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