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# 1. REAL ESTATE QUARTERLY PERFORMANCE REPORT

As of December 31, 2024

#### PORTFOLIO PERFORMANCE SUMMARY

The table below displays trailing time period performance for the Pennsylvania State Employees' Retirement System ("PA SERS") Real Estate Portfolio as of December 31, 2024 along with select benchmarks

- The policy benchmark is the NCREIF ODCE Index, which is comprised of open-end core real estate funds; we also show two additional real estate benchmarks and the S&P 500
  - The NCREIF Property Index, a benchmark of unlevered core real estate returns
  - The C|A Non-Core Real Estate benchmark consists of non-core (value-add and opportunistic) closed-end real
    estate funds
- The total real estate portfolio has generated a total net return of -7.4% year to date
  - The portfolio has generated an annualized return of 2.2% over the trailing ten years

| Portfolio Performance                                | YTD   | 1 Year | 3 Year | 5 Year | 10 Year | Inception |
|--|-------|--------|--------|--------|---------|-----------|
| Pennsylvania SERS: Total Real Estate Portfolio       | -7.4% | -7.4%  | -7.8%  | -0.3%  | 2.2%    | 6.7%      |
| Policy Benchmark: <b>NFI-ODCE Index</b> <sup>1</sup> | -2.3% | -2.3%  | -3.1%  | 2.0%   | 4.9%    | N/A       |
| NCREIF Property Index <sup>2</sup>                   | 0.4%  | 0.4%   | -0.8%  | 3.1%   | 5.7%    | N/A       |
| C A Non-Core Real Estate Index <sup>3</sup>          | -2.5% | -2.5%  | -0.9%  | 5.4%   | 7.9%    | N/A       |
| S&P 500 Index  | 25.0% | 25.0%  | 8.9%   | 14.5%  | 13.1%   | N/A       |

Data as of December 31, 2024. Sources include NCREIF, C|A, Manager data, and NEPC.

<sup>4.</sup> The timing and magnitude of fund cash flows are integral to the IRR performance. Benchmark indices that are time weighted measures should not be directly compared to dollar-weighted IRR calculations. Index data is continuously updated and is therefore subject to change.



<sup>1.</sup> The NFI-ODCE Index represents pooled returns of open-end comingled core funds in the ODCE Index. The ODCE includes the effects of leverage, and returns shown are time-weighted and net of fees.

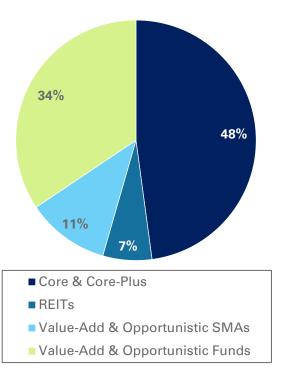
<sup>2.</sup> The NCREIF Property Index (NPI) represents property-level returns of institutionally-owned core real estate properties in the United States. The NPI is unlevered, and returns are time-weighted and gross of fees.

<sup>3.</sup> The C|A Benchmark data represents pooled horizon internal rate of return (IRR) calculations, net of fees, across value-add and opportunistic real estate funds.

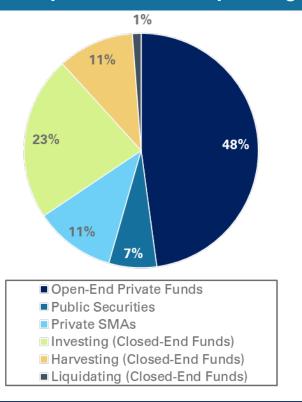
#### PORTFOLIO ALLOCATION OVERVIEW

- The charts below show PA SERS real estate portfolio broken out by strategy and by investment structure, with closed-end funds further broken out by lifecycle stage
- As shown, approximately 55% of the portfolio is invested in Core, Core-Plus, and REITs
  - We anticipate the Value-Add and Opportunistic strategies to grow over time, in-line with the board-approved sub-strategy targets

#### **Allocation by Strategy**



#### Allocation by Structure & Lifecycle Stage

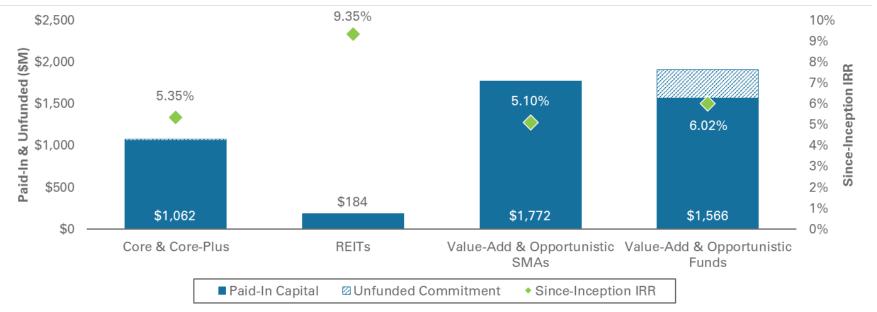






#### PERFORMANCE BY STRATEGY

The chart and table below shows the performance by strategy for all current (active, non-liquidated) investments in the PA SERS real estate portfolio



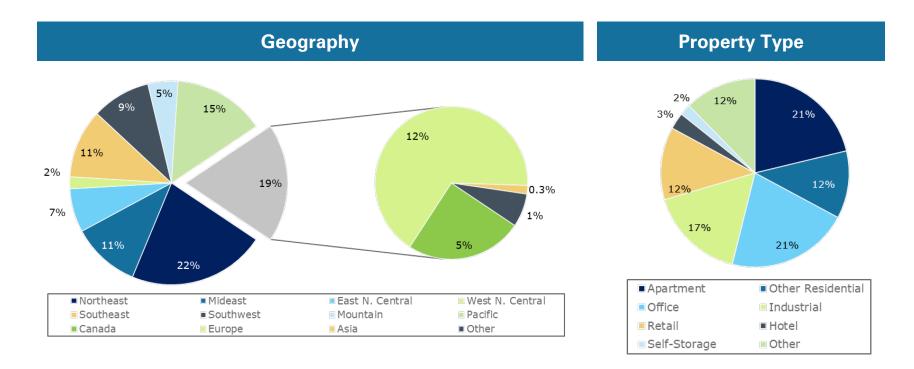
| Investment Strategy             | Commitment    | Paid-In Capital | Unfunded<br>Commitment | Cumulative<br>Distributions | Valuation   | Total Value   | Net Benefit | Call<br>Ratio | DPI<br>Ratio | TVPI<br>Ratio | IRR   |
|---------------------------------|---------------|-----------------|------------------------|-----------------------------|-------------|---------------|-------------|---------------|--------------|---------------|-------|
| Core & Core-Plus                | 1,077,174,584 | 1,061,541,976   | 15,632,609             | 423,472,734                 |             |               |             | 99%           |              |               | 5.35% |
| REITs                           | 183,616,773   | 183,616,773     | 0                      | 211,168,336                 | 145,657,534 | 356,825,870   | 173,209,097 | 100%          | 1.15x        | 1.94x         | 9.35% |
| Value-Add & Opportunistic SMAs  | 1,753,705,990 | 1,771,914,378   | 0                      | 2,270,627,960               | 245,903,750 | 2,516,531,710 | 744,617,332 | 101%          | 1.28x        | 1.42x         | 5.10% |
| Value-Add & Opportunistic Funds | 1,871,542,920 | 1,566,252,526   | 339,764,441            | 1,207,223,819               | 759,834,043 | 1,967,057,862 | 400,805,337 | 84%           | 0.77x        | 1.26x         | 6.02% |
| Total (Active Investments)      | 4,886,040,267 | 4,583,325,652   | 355,397,050            | 4,112,492,848               |             |               |             | 94%           | 0.90x        |               | 5.43% |



Data as of December 31, 2024. Liquidated investments not shown. Returns shown do not take into account risk/volatility of underlying strategies. Note that, due to rounding, there may be slight differences between the summed figures, totals, and amounts shown elsewhere in this presentation.

#### PORTFOLIO DIVERSIFICATION

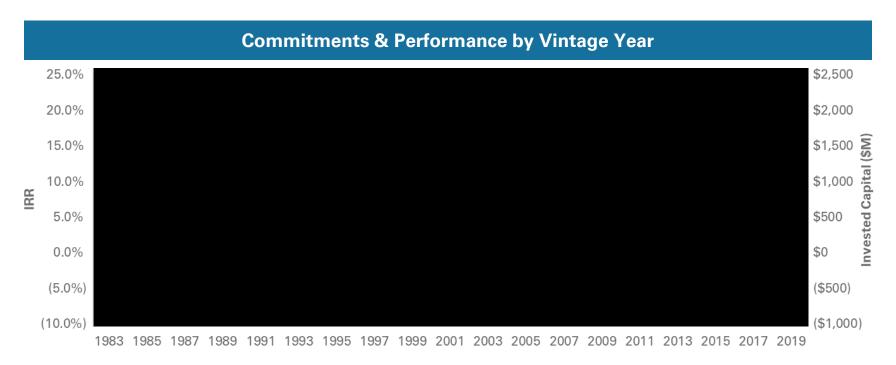
- The PA SERS real estate portfolio is broadly diversified by property type and geography within the U.S.
- 19% of the portfolio is invested outside the U.S., primarily in Europe





#### HISTORICAL PERFORMANCE BY VINTAGE

- The following chart illustrates capital invested and inception-to-date performance by vintage year as of December 31, 2024
  - Historic inconsistent pacing has negatively impacted portfolio performance
  - The PA SERS Investment Office and NEPC are focused on maintaining a more consistent investment pacing schedule to mitigate the risk of heavy capital investments in poor vintage years

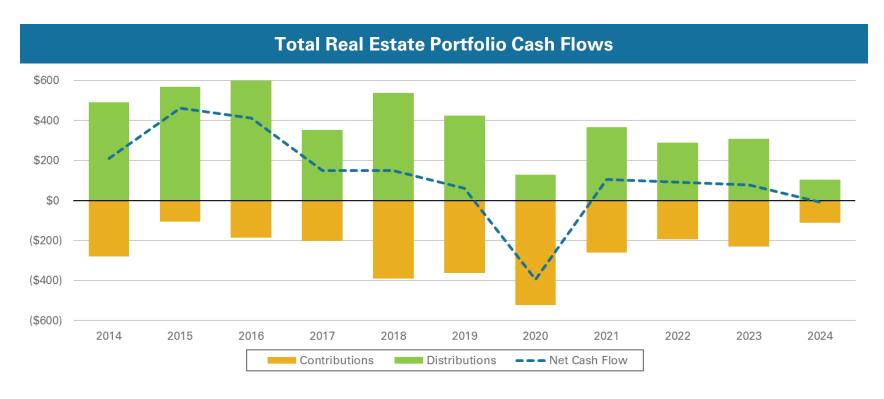




Data as of December 31, 2024. Notes: Vintage years 2020 and later are excluded as data is less meaningful. For separate accounts, the date of initial commitment or investment is used as the vintage year.

#### **10-YEAR CASH FLOWS**

- The chart below illustrates the capital invested, distributed, and net cash flows for the real estate portfolio YTD and over the prior 10 full calendar years
  - The portfolio was cash flow positive in eight of the last 10 years
  - The portfolio is cash flow slightly negative for 2024, though overall flows (both calls and distributions) remain muted





#### **ACTIVE DIVERSE-LED INVESTMENTS**

 The table below displays the since-inception performance of active (non-liquidated) investments managed by diverse-owned and diverseled investment management firms in the PA SERS real estate portfolio

| Investment Name                          | Vintage<br>Year | Commitment  | Paid-In<br>Capital | Unfunded<br>Commitment | Cumulative<br>Distributions | Valuation  | Total Value | Net Benefit  | DPI<br>Ratio | TVPI<br>Ratio | IRR      |
|--|-----------------|-------------|--------------------|------------------------|-----------------------------|------------|-------------|--------------|--------------|---------------|----------|
| Blue Moon Senior Housing II Sidecar L.P. | 2019            | 50,000,000  | 47,968,832         | 2,062,589              | 2,000,000                   | 53,441,001 | 55,441,001  | 7,472,169    | 0.04x        | 1.16x         | 4.47%    |
| Blue Moon Senior Housing II, L.P.        | 2019            | 50,000,000  | 48,051,089         | 1,948,911              | 279,720                     | 48,723,790 | 49,003,510  | 952,421      | 0.01x        | 1.02x         | 0.63%    |
| HotelAVE Separate Account                | 2018            | 95,994,432  | 95,994,432         | 0                      | 57,691,396                  | 10,684,636 | 68,376,032  | (27,618,400) | 0.60x        | 0.71x         | (14.18%) |
| Rubicon First Ascent Sidecar             | 2021            | 20,000,000  | 16,094,555         | 3,905,445              | 0                           | NM         | NM          | NM           | NM           | NM            | NM       |
| Rubicon First Ascent, L.P.               | 2021            | 30,000,000  | 21,574,740         | 8,425,260              | 0                           | 18,448,303 | 18,448,303  | (3,126,437)  | 0.00x        | 0.86x         | (10.92%) |
| Scout Fund II-A, L.P.                    | 2016            | 30,000,000  | 30,000,000         | 0                      | 3,238,651                   | 12,063,158 | 15,301,808  | (14,698,192) | 0.11x        | 0.51x         | (9.20%)  |
| Total                                    |                 | 275,994,432 | 259,683,648        | 16,342,205             | 63,209,767                  |            |             |              |              |               | (4.98%)  |

NM - Not Meaningful



Data as of December 31, 2024. NEPC defines "diverse-owned" as a firm that's at least 50% owned by an under-represented group and "diverse-led" as a firm that's 33% to 50% owned by an under-represented group. The funds listed on this page are those which NEPC has identified as diverse-owned or diverse-led as of December 31, 2024. Therefore, it is possible that a firm may have been diverse-owned or diverse-led at the time of PA SERS commitment but is no longer, and therefore is excluded from this list. While NEPC has exercised reasonable professional care in preparing this information, we cannot guarantee the accuracy of all source information. Note that, due to rounding, there may be slight differences between the summed figures and the totals.



#### REAL ESTATE MARKET UPDATE

- Real estate markets seem to have turned a corner, but uncertainty persists
  - The NCREIF ODCE Index is now in positive territory for the trailing one-year period through the first quarter of 2025
  - While quarterly core returns have been positive, this has been primarily driven by current income, as asset appreciation remains muted
  - Broader market volatility and economic concerns fuel investor uncertainty
- NEPC continues to believe that opportunistic strategies and select sectorfocused funds are attractive in this market
  - Managers with diversified opportunistic mandates should be poised to capitalize on any distress or inefficiencies in the market
  - Housing, data centers, and healthcare-related real estate markets exhibit sustained growth tailwinds
  - It remains an attractive time to be a provider of liquidity, including through real estate debt strategies and secondaries strategies



#### **2025 TARGET REAL ESTATE STRATEGIES**

Defensive with high income component and an INCOME **Real Estate Debt** attractive risk-adjusted return relative to equity. NNN may be an equity alternative. **Diversified** Capitalize on market dislocations, distress and **GROWTH Opportunistic** lower pricing. **Real Estate** Discounted entry with advanced business **BALANCED Secondaries** plan execution and shorter duration. Overweight property sectors with strong tailwinds such as data center, attainable **TACTICAL Sector Specific** housing and industrial. Grocery-anchored retail may be a core plus diversifier. Enhanced economic and market diversification **Europe and Asia GLOBAL Pacific** with growing institutionalization.



#### LOOKING FORWARD

- NEPC will continue to work with the PA SERS Investment Office to implement the strategic investment plan for the real estate portfolio, including:
  - Shifting the underlying strategy mix to the new targets approved in 2022
  - Identifying potential investment opportunities for future value-add and opportunistic commitments in 2025
    - We will seek strategies that will both complement the PA SERS portfolio and capitalize on the current market environment
- Best practices for private market investments include maintaining annual commitment pacing, even through periods of uncertainty
  - It is the manager's job to navigate the market and identify attractive investment opportunities

| Sub-Strategy              | Current<br>Allocation | Target Allocation |
|---------------------------|-----------------------|-------------------|
| Core / Core-Plus          | 48%                   | 25%               |
| Value-Add & Opportunistic | 45%                   | 70%               |
| REITs                     | 7%                    | 5%                |





### **ACTIVE INVESTMENTS**

| Investments  |              |             |        |         | Trailin | ng Period R | eturns (IRR | ) %     |          |         |
|--|--------------|-------------|--------|---------|---------|-------------|-------------|---------|----------|---------|
| Investment Name  | Vintage Year | Commitment  | (QTD)  | (YTD)   | (1 Yr)  | (3 Yrs)     | (5 Yrs)     | (7 Yrs) | (10 Yrs) | SIIRR   |
| Activum SG Fund VI L.P.                                    | 2019         | 50,000,000  |        |         |         |             |             |         |          |         |
| Activum SG Fund VI Pennsylvania Side-Car L.P.              | 2019         | 50,000,000  |        |         |         |             |             |         |          |         |
| AG Asia Realty Fund, L.P.                                  | 2007         | 25,000,000  | -1.46% | -4.92%  | -4.92%  | -7.33%      | 9.17%       | 4.97%   | -3.76%   | 3.22%   |
| Ares PA Opportunities Fund, L.P Opportunistic Real Estate  | 2023         | 100,000,000 | NM     | NM      | NM      | NM          | NM          | NM      | NM       | NM      |
| Blackstone Property Partners, L.P.                         | 2017         | 300,000,000 | -3.30% | -5.82%  | -5.82%  | -3.83%      | 1.10%       |         |          | 2.73%   |
| Blackstone Real Estate Partners IV, L.P.                   | 2003         | 25,000,000  | 12.28% | -7.80%  | -7.80%  | -4.23%      | 37.72%      | 13.38%  | 1.09%    | 11.97%  |
| Blackstone Real Estate Partners V, L.P.                    | 2006         | 50,000,000  | 4.00%  | -0.08%  | -0.08%  | 23.71%      | 24.67%      | 5.44%   | 10.04%   | 10.73%  |
| Blackstone Real Estate Partners VI, L.P.                   | 2007         | 75,000,000  | 1.05%  | 5.10%   | 5.10%   | -1.32%      | -4.77%      | 6.48%   | 7.32%    | 12.69%  |
| Blackstone Real Estate Partners VII, L.P.                  | 2011         | 75,000,000  | -4.42% | -15.87% | -15.87% | -11.20%     | -1.30%      | 2.54%   | 7.80%    | 14.17%  |
| Blackstone Real Estate Partners X, L.P.                    | 2022         | 75,000,000  | NM     | NM      | NM      | NM          | NM          | NM      | NM       | NM      |
| Blue Moon Senior Housing II Sidecar L.P.                   | 2019         | 50,000,000  | 5.25%  | 15.30%  | 15.30%  | 6.55%       |             |         |          | 4.47%   |
| Blue Moon Senior Housing II, L.P.                          | 2019         | 50,000,000  | 3.03%  | 11.29%  | 11.29%  | 2.92%       | 1.07%       |         |          | 0.63%   |
| Blue Owl Real Estate Capital Fund IV, L.P.                 | 2017         | 100,000,000 | -8.68% | -17.11% | -17.11% | 3.77%       | 18.47%      | 17.10%  |          | 16.88%  |
| Blue Owl Real Estate Capital Fund V, L.P.                  | 2020         | 50,000,000  | 0.59%  | 0.10%   | 0.10%   | 7.79%       |             |         |          | 11.99%  |
| Blue Owl Real Estate Capital Fund VI, L.P.                 | 2022         | 75,000,000  | NM     | NM      | NM      | NM          | NM          | NM      | NM       | NM      |
| Blue Owl Real Estate Capital Net Lease Property Fund, L.P. | 2018         | 309,743,743 | 1.28%  | 2.25%   | 2.25%   | 6.61%       | 10.49%      |         |          | 10.20%  |
| BPG Investment Partnership IX, L.P.                        | 2012         | 25,000,000  | -0.73% | 7.50%   | 7.50%   | -0.79%      | -2.26%      | 15.25%  | 16.13%   | 15.00%  |
| BPG Investment Partnership VI, L.P.                        | 2002         | 25,000,000  | -6.17% | -7.80%  | -7.80%  | 141.95%     | 25.89%      | 13.98%  | 10.98%   | 13.51%  |
| BPG Investment Partnership VII, L.P.                       | 2005         | 25,000,000  | 0.44%  | 1.58%   | 1.58%   | -8.38%      | 1.59%       | 1.06%   | 5.99%    | -0.64%  |
| C-III Recovery Fund III, L.P.                              | 2017         | 100,000,000 |        |         |         |             |             |         |          |         |
| CenterSquare Real Estate Securities                        | 2002         | 183,616,773 | -5.37% | 11.23%  | 11.23%  | -7.67%      | 3.04%       | 5.83%   | 5.95%    | 9.35%   |
| Heitman America Real Estate Trust, L.P.                    | 2007         | 100,000,000 | 1.21%  | -0.54%  | -0.54%  | -0.88%      | 3.87%       | 4.17%   | 6.65%    | 6.81%   |
| Heitman Separate Account                                   | 1988         | 813,992,364 | 1.22%  | 1.31%   | 1.31%   | -0.14%      | 10.20%      | 8.54%   | 12.34%   | 4.58%   |
| Henderson Park Enhanced Income Fund, SCSp                  | 2019         | 300,000,000 |        |         |         |             |             |         |          |         |
| HotelAVE Separate Account                                  | 2018         | 95,994,432  | -1.98% | -5.36%  | -5.36%  | -27.65%     | -21.83%     |         |          | -14.18% |



# **ACTIVE INVESTMENTS (CONTINUED)**

| Investments  | Investments     |             |         |         |         |         | Trailing Period Returns (IRR) % |         |          |         |  |  |  |  |
|--|-----------------|-------------|---------|---------|---------|---------|---------------------------------|---------|----------|---------|--|--|--|--|
| Investment Name                                    | Vintage<br>Year | Commitment  | (QTD)   | (YTD)   | (1 Yr)  | (3 Yrs) | (5 Yrs)                         | (7 Yrs) | (10 Yrs) | SI IRR  |  |  |  |  |
| LaSalle Separate Account                           | 1994            | 512,111,494 | 4.27%   | -47.62% | -47.62% | -42.24% | -31.59%                         | -16.93% | -2.12%   | 8.15%   |  |  |  |  |
| LaSalle Takeover Account                           | 2018            | 331,607,700 | 0.35%   | -37.42% | -37.42% | -23.88% | -6.31%                          |         |          | 1.05%   |  |  |  |  |
| LEM Multifamily Fund VI, L.P.                      | 2022            | 75,000,000  | NM      | NM      | NM      | NM      | NM                              | NM      | NM       | NM      |  |  |  |  |
| Lubert-Adler Real Estate Fund VII, L.P.            | 2014            | 25,000,000  | -0.26%  | 0.39%   | 0.39%   | -11.57% | -9.48%                          | -3.51%  | -0.43%   | -0.71%  |  |  |  |  |
| Mesirow Financial Real Estate Value Fund III, L.P. | 2018            | 25,000,000  | -0.42%  | 2.22%   | 2.22%   | 1.18%   | 10.89%                          |         |          | 10.35%  |  |  |  |  |
| Rockpoint Real Estate Fund III, L.P.               | 2007            | 50,000,000  | -2.77%  | 3.09%   | 3.09%   | -8.44%  | -5.48%                          | -0.91%  | 0.12%    | 13.39%  |  |  |  |  |
| Rockpoint Real Estate Fund V, L.P.                 | 2015            | 50,000,000  | -0.87%  | -10.87% | -10.87% | -23.67% | -11.20%                         | -4.96%  |          | -3.33%  |  |  |  |  |
| Rubicon First Ascent Sidecar                       | 2021            | 20,000,000  | NM      | NM      | NM      | NM      | NM                              | NM      | NM       | NM      |  |  |  |  |
| Rubicon First Ascent, L.P.                         | 2021            | 30,000,000  | -0.99%  | 2.18%   | 2.18%   | -7.57%  |                                 |         |          | -10.92% |  |  |  |  |
| Scout Fund II-A, L.P.                              | 2016            | 30,000,000  | 1.33%   | -7.54%  | -7.54%  | -25.34% | -16.11%                         | -9.98%  |          | -9.20%  |  |  |  |  |
| Senior Housing Partners V, L.P.                    | 2015            | 45,727,881  | -1.77%  | -13.07% | -13.07% | -10.30% | -5.20%                          | -1.25%  |          | 0.25%   |  |  |  |  |
| Senior Housing Partners VI, L.P.                   | 2019            | 100,000,000 | -1.87%  | -9.11%  | -9.11%  | -7.18%  | -5.94%                          |         |          | -6.08%  |  |  |  |  |
| SRE Opportunity Fund III Select, L.P.              | 2018            | 50,000,000  |         |         |         |         |                                 |         |          |         |  |  |  |  |
| SRE Opportunity Fund III, L.P.                     | 2018            | 50,000,000  |         |         |         |         |                                 |         |          |         |  |  |  |  |
| Starwood Global Opportunity Fund VII-A, L.P.       | 2006            | 35,000,000  |         |         |         |         |                                 |         |          |         |  |  |  |  |
| Starwood Global Opportunity Fund VIII, L.P.        | 2009            | 50,000,000  |         |         |         |         |                                 |         |          |         |  |  |  |  |
| Starwood Opportunity Fund VI, L.P.                 | 2001            | 50,000,000  |         |         |         |         |                                 |         |          |         |  |  |  |  |
| Trumbull Property Fund, L.P.                       | 1988            | 25,558,525  | 0.73%   | -2.62%  | -2.62%  | -4.30%  | -0.23%                          | 1.25%   | 4.66%    | 6.77%   |  |  |  |  |
| ValStone Opportunity Fund V, LLC                   | 2014            | 14,663,402  | 4.56%   | 1.17%   | 1.17%   | 0.38%   | 1.62%                           | 4.74%   | 6.05%    | 6.20%   |  |  |  |  |
| Westbrook Real Estate Fund VI, L.P.                | 2006            | 35,000,000  | 0.38%   | 0.72%   | 0.72%   | -0.07%  | -0.28%                          | -0.85%  | -0.32%   | 0.23%   |  |  |  |  |
| Westbrook Real Estate Fund VII, L.P.               | 2007            | 50,000,000  | -0.17%  | -2.41%  | -2.41%  | -14.75% | -10.94%                         | -7.88%  | -1.53%   | 1.44%   |  |  |  |  |
| Westbrook Real Estate Fund VIII, L.P.              | 2009            | 50,000,000  | -11.59% | -27.04% | -27.04% | -17.79% | -15.92%                         | -11.68% | -5.86%   | 8.41%   |  |  |  |  |
| Total  |                 |             | -1.83%  | -7.37%  | -7.37%  | -7.84%  | -0.33%                          | 2.02%   | 3.55%    | 5.43%   |  |  |  |  |



#### **PERFORMANCE BY STRATEGY**

| Investments  |                 | Commitme        | ents                   | Contributions & | Distributions               |               | Valuations      |               | Ре   | rforma | nce     |
|--|-----------------|-----------------|------------------------|-----------------|-----------------------------|---------------|-----------------|---------------|------|--------|---------|
| Investment Name  | Vintage<br>Year | Commitment      | Unfunded<br>Commitment | Paid In Capital | Cumulative<br>Distributions | Valuation     | Total Value     | Net Benefit   | DPI  | TVPI   | IRR     |
| Core/Core-Plus   |                 |                 |                        |                 |                             |               |                 |               |      |        |         |
| Blackstone Property Partners, L.P.                         | 2017            | \$300,000,000   | \$0                    | \$300,000,000   | \$24,533,637                | \$333,308,973 | \$357,842,610   | \$57,842,610  | 0.08 | 1.19   | 2.73%   |
| Blue Owl Real Estate Capital Net Lease Property Fund, L.P. | 2018            | \$309,743,743   | \$0                    | \$309,743,743   | \$90,777,189                | \$354,529,838 | \$445,307,027   | \$135,563,284 | 0.29 | 1.44   | 10.20%  |
| Heitman America Real Estate Trust, L.P.                    | 2007            | \$100,000,000   | \$0                    | \$100,000,000   | \$104,036,693               | \$145,625,340 | \$249,662,033   | \$149,662,033 | 1.04 | 2.50   | 6.81%   |
| Henderson Park Enhanced Income Fund, SCSp                  | 2019            | \$341,872,317   | \$15,632,609           | \$326,239,708   | \$75,467,864                |               |                 |               |      |        |         |
| Trumbull Property Fund, L.P.                               | 1988            | \$25,558,525    | \$0                    | \$25,558,525    | \$128,657,350               | \$15,787,339  | \$144,444,689   | \$118,886,164 | 5.03 | 5.65   | 6.77%   |
| Total Core/Core-Plus                                       |                 | \$1,077,174,584 | \$15,632,609           | \$1,061,541,976 | \$423,472,734               |               |                 |               |      |        | 5.35%   |
| Value-Add/Opportunistic SMAs                               |                 |                 |                        |                 |                             |               |                 |               |      |        |         |
| Heitman Separate Account                                   | 1988            | \$813,992,364   | \$0                    | \$825,635,117   | \$1,230,476,873             | \$25,904,729  | \$1,256,381,602 | \$430,746,485 | 1.49 | 1.52   | 4.58%   |
| HotelAVE Separate Account                                  | 2018            | \$95,994,432    | \$0                    | \$95,994,432    | \$57,691,396                | \$10,684,636  | \$68,376,032    | -\$27,618,400 | 0.60 | 0.71   | -14.18% |
| LaSalle Separate Account                                   | 1994            | \$512,111,494   | \$0                    | \$515,172,073   | \$792,997,999               | \$50,921,888  | \$843,919,887   | \$328,747,814 | 1.54 | 1.64   | 8.15%   |
| LaSalle Takeover Account                                   | 2018            | \$331,607,700   | \$0                    | \$335,112,756   | \$189,461,692               | \$158,392,497 | \$347,854,189   | \$12,741,433  | 0.57 | 1.04   | 1.05%   |
| Total Value-Add/Opportunistic SMAs                         |                 | \$1,753,705,990 | \$0                    | \$1,771,914,378 | \$2,270,627,960             | \$245,903,750 | \$2,516,531,710 | \$744,617,332 | 1.28 | 1.42   | 5.10%   |
| REIT   |                 |                 |                        |                 |                             |               |                 |               |      |        |         |
| CenterSquare Real Estate Securities                        | 2002            | \$183,616,773   | \$0                    | \$183,616,773   | \$211,168,336               | \$145,657,534 | \$356,825,870   | \$173,209,097 | 1.15 | 1.94   | 9.35%   |
| Total REIT   |                 | \$183,616,773   | \$0                    | \$183,616,773   | \$211,168,336               | \$145,657,534 | \$356,825,870   | \$173,209,097 | 1.15 | 1.94   | 9.35%   |
| Value Add/Opportunistic                                    |                 |                 |                        |                 |                             |               |                 |               |      |        |         |
| Activum SG Fund VI L.P.                                    | 2019            | \$57,035,257    | \$3,298,961            | \$53,727,863    | \$9,726,373                 |               |                 |               |      |        |         |
| Activum SG Fund VI Pennsylvania Side-Car L.P.              | 2019            | \$54,792,221    | \$20,691,496           | \$34,100,725    | \$438,595                   |               |                 |               |      |        |         |
| AG Asia Realty Fund, L.P.                                  | 2007            | \$23,500,000    | \$1,340,156            | \$23,500,000    | \$27,487,500                | \$42,853      | \$27,530,353    | \$4,030,353   | 1.17 | 1.17   | 3.22%   |
| Ares PA Opportunities Fund, L.P Opportunistic Real Estate  | 2023            | \$100,000,000   | \$93,042,801           | \$6,957,199     | \$0                         | NM            | NM              | NM            | NM   | NM     | NM      |
| Blackstone Real Estate Partners IV, L.P.                   | 2003            | \$25,000,000    | \$0                    | \$25,004,498    | \$41,355,631                | \$0           | \$41,355,631    | \$16,351,133  | 1.65 | 1.65   | 11.97%  |
| Blackstone Real Estate Partners V, L.P.                    | 2006            | \$50,000,000    | \$208,703              | \$49,791,297    | \$102,189,651               | \$61,318      | \$102,250,969   | \$52,459,672  | 2.05 | 2.05   | 10.73%  |
| Blackstone Real Estate Partners VI, L.P.                   | 2007            | \$75,000,000    | \$552,134              | \$74,791,104    | \$157,969,695               | \$39,152      | \$158,008,847   | \$83,217,743  | 2.11 | 2.11   | 12.69%  |
| Blackstone Real Estate Partners VII, L.P.                  | 2011            | \$75,000,000    | \$5,714,150            | \$72,044,203    | \$123,475,872               | \$9,254,714   | \$132,730,586   | \$60,686,384  | 1.71 | 1.84   | 14.17%  |
| Blackstone Real Estate Partners X, L.P.                    | 2022            | \$75,000,000    | \$55,716,642           | \$21,405,205    | \$55,706                    | NM            | NM              | NM            | NM   | NM     | NM      |
| Blue Moon Senior Housing II Sidecar L.P.                   | 2019            | \$50,000,000    | \$2,062,589            | \$47,968,832    | \$2,000,000                 | \$53,441,001  | \$55,441,001    | \$7,472,169   | 0.04 | 1.16   | 4.47%   |
| Blue Moon Senior Housing II, L.P.                          | 2019            | \$50,000,000    | \$1,948,911            | \$48,051,089    | \$279,720                   | \$48,723,790  | \$49,003,510    | \$952,421     | 0.01 | 1.02   | 0.63%   |
| Blue Owl Real Estate Capital Fund IV, L.P.                 | 2017            | \$100,000,000   | \$0                    | \$100,000,000   | \$119,222,832               | \$31,169,825  | \$150,392,657   | \$50,392,657  | 1.19 | 1.50   | 16.88%  |
| Blue Owl Real Estate Capital Fund V, L.P.                  | 2020            | \$50,000,000    | \$0                    | \$49,996,863    | \$19,547,140                | \$43,735,416  | \$63,282,556    | \$13,285,693  | 0.39 | 1.27   | 11.99%  |
| Blue Owl Real Estate Capital Fund VI, L.P.                 | 2022            | \$75,000,000    | \$44,285,052           | \$30,589,338    | \$926,523                   | NM            | NM              | NM            | NM   | NM     | NM      |

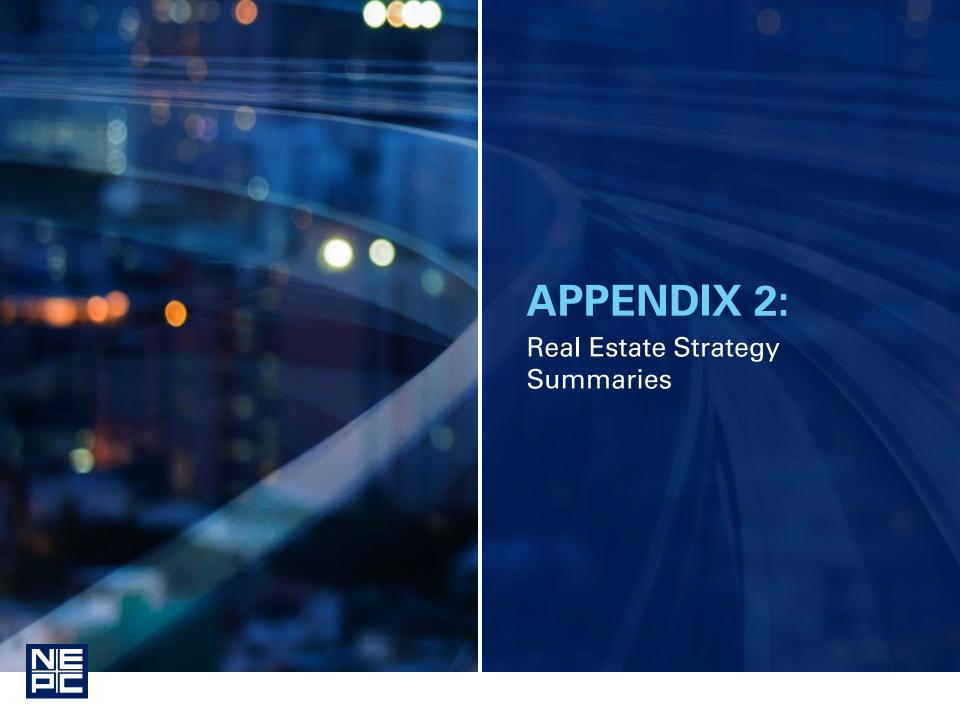


Data as of December 31, 2024. Performance metrics calculated by NEPC based on data provided by the investment managers. Note that, due to rounding, there may be slight differences between the summed figures, subtotals, totals, and amounts shown elsewhere in this presentation.

## PERFORMANCE BY STRATEGY (CONTINUED)

| Investments  |                 | Commitm         | ents                   | Contributions & | Distributions               |               | Valuations      |               | Pe   | rforma | ince    |
|--|-----------------|-----------------|------------------------|-----------------|-----------------------------|---------------|-----------------|---------------|------|--------|---------|
| Investment Name                                    | Vintage<br>Year | Commitment      | Unfunded<br>Commitment | Paid In Capital | Cumulative<br>Distributions | Valuation     | Total Value     | Net Benefit   | DPI  | TVPI   | IRR     |
| Value Add/Opportunistic (Continued)                |                 |                 |                        |                 |                             |               |                 |               |      |        |         |
| BPG Investment Partnership IX, L.P.                | 2012            | \$25,000,000    | \$696,591              | \$24,417,362    | \$40,376,122                | \$2,702       | \$40,378,824    | \$15,961,462  | 1.65 | 1.65   | 15.00%  |
| BPG Investment Partnership VI, L.P.                | 2002            | \$24,543,712    | \$0                    | \$24,543,712    | \$44,921,380                | \$8,309       | \$44,929,689    | \$20,385,977  | 1.83 | 1.83   | 13.51%  |
| BPG Investment Partnership VII, L.P.               | 2005            | \$25,000,000    | \$0                    | \$24,985,519    | \$18,270,069                | \$4,680,434   | \$22,950,503    | -\$2,035,016  | 0.73 | 0.92   | -0.64%  |
| C-III Recovery Fund III, L.P.                      | 2017            | \$100,000,000   | \$2,860,947            | \$96,799,611    | \$10,246,172                |               |                 |               |      |        |         |
| LEM Multifamily Fund VI, L.P.                      | 2022            | \$75,000,000    | \$33,937,500           | \$41,062,500    | \$1,304,348                 | NM            | NM              | NM            | NM   | NM     | NM      |
| Lubert-Adler Real Estate Fund VII, L.P.            | 2014            | \$25,000,000    | \$625,000              | \$24,375,000    | \$15,311,744                | \$8,083,306   | \$23,395,050    | -\$979,950    | 0.63 | 0.96   | -0.71%  |
| Mesirow Financial Real Estate Value Fund III, L.P. | 2018            | \$25,647,559    | \$0                    | \$25,859,215    | \$10,600,399                | \$30,728,279  | \$41,328,678    | \$15,469,464  | 0.41 | 1.60   | 10.35%  |
| Rockpoint Real Estate Fund III, L.P.               | 2007            | \$50,632,887    | \$4,241,165            | \$50,675,144    | \$68,151,141                | \$1,112,551   | \$69,263,692    | \$18,588,548  | 1.34 | 1.37   | 13.39%  |
| Rockpoint Real Estate Fund V, L.P.                 | 2015            | \$50,000,000    | \$7,108,485            | \$48,314,982    | \$25,396,310                | \$16,669,477  | \$42,065,787    | -\$6,249,195  | 0.53 | 0.87   | -3.33%  |
| Rubicon First Ascent Sidecar                       | 2021            | \$20,000,000    | \$3,905,445            | \$16,094,555    | \$0                         | NM            | NM              | NM            | NM   | NM     | NM      |
| Rubicon First Ascent, L.P.                         | 2021            | \$30,000,000    | \$8,425,260            | \$21,574,740    | \$0                         | \$18,448,303  | \$18,448,303    | -\$3,126,437  | 0.00 | 0.86   | -10.92% |
| Scout Fund II-A, L.P.                              | 2016            | \$30,000,000    | \$0                    | \$30,000,000    | \$3,238,651                 | \$12,063,158  | \$15,301,808    | -\$14,698,192 | 0.11 | 0.51   | -9.20%  |
| Senior Housing Partners V, L.P.                    | 2015            | \$45,727,881    | \$4,590,192            | \$41,137,690    | \$6,017,640                 | \$35,809,251  | \$41,826,891    | \$689,201     | 0.15 | 1.02   | 0.25%   |
| Senior Housing Partners VI, L.P.                   | 2019            | \$100,000,000   | \$12,939,604           | \$86,966,354    | \$0                         | \$73,113,982  | \$73,113,982    | -\$13,852,372 | 0.00 | 0.84   | -6.08%  |
| SRE Opportunity Fund III Select, L.P.              | 2018            | \$50,000,000    | \$20,242,500           | \$29,897,486    | \$19,579,003                |               |                 |               |      |        |         |
| SRE Opportunity Fund III, L.P.                     | 2018            | \$50,000,000    | \$6,686,439            | \$47,153,386    | \$16,863,561                |               |                 |               |      |        |         |
| Starwood Global Opportunity Fund VII-A, L.P.       | 2006            | \$35,000,000    | \$0                    | \$35,000,000    | \$27,413,405                |               |                 |               |      |        |         |
| Starwood Global Opportunity Fund VIII, L.P.        | 2009            | \$50,000,000    | \$4,643,719            | \$45,356,484    | \$73,854,062                |               |                 |               |      |        |         |
| Starwood Opportunity Fund VI, L.P.                 | 2001            | \$50,000,000    | \$0                    | \$50,153,525    | \$52,008,516                |               |                 |               |      |        |         |
| ValStone Opportunity Fund V, LLC                   | 2014            | \$14,663,402    | \$0                    | \$14,663,777    | \$10,164,834                | \$12,536,490  | \$22,701,324    | \$8,037,547   | 0.69 | 1.55   | 6.20%   |
| Westbrook Real Estate Fund VI, L.P.                | 2006            | \$35,000,000    | \$0                    | \$38,550,099    | \$38,837,150                | \$145,779     | \$38,982,929    | \$432,830     | 1.01 | 1.01   | 0.23%   |
| Westbrook Real Estate Fund VII, L.P.               | 2007            | \$50,000,000    | \$0                    | \$56,376,719    | \$56,575,755                | \$5,004,019   | \$61,579,774    | \$5,203,055   | 1.00 | 1.09   | 1.44%   |
| Westbrook Real Estate Fund VIII, L.P.              | 2009            | \$50,000,000    | \$0                    | \$54,366,448    | \$63,418,319                | \$4,137,971   | \$67,556,290    | \$13,189,842  | 1.17 | 1.24   | 8.41%   |
| Total Value Add/Opportunistic                      |                 | \$1,871,542,920 | \$339,764,441          | \$1,566,252,526 | \$1,207,223,819             | \$759,834,043 | \$1,967,057,862 | \$400,805,337 | 0.77 | 1.26   | 6.02%   |
| Total  |                 | \$4,886,040,267 | \$355,397,050          | \$4,583,325,652 | \$4,112,492,848             |               |                 |               | 0.90 |        | 5.43%   |





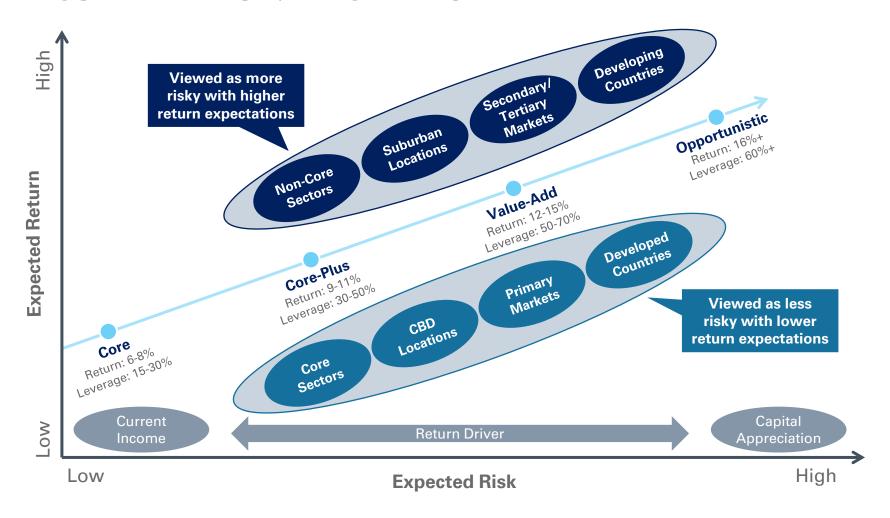
# SPECTRUM OF REAL ESTATE INVESTMENT STRATEGIES

|                     | Real Estate Investment<br>Style / Overview  | Investment<br>Strategy  | Portfolio Role  | Considerations   |
|---------------------|---|---|---|--|
| Core Strategies     | Core / Core-Plus Return driver: income Primary vehicle: open-end funds Historical avg. returns: 7-8% / 8%-10% Leverage: 15-40% / 40%-50% Hold period: long-term | Stabilized income producing assets  | <ul> <li>Current income</li> <li>Broad exposure to commercial real estate (asset class beta)</li> <li>Inflation protection</li> </ul>               | <ul> <li>Vehicles are semi-liquid<br/>(entrance/exit queues)</li> <li>Limited alpha producing<br/>opportunities</li> </ul>                             |
| Core St             | RE Securities Return driver: income Primary vehicle: REIT funds Historical avg. returns: 7-9% Leverage: 30-50% Hold period: long-term                           | Stabilized income producing assets  | <ul> <li>Current income (dividends)</li> <li>Long-term exposure to commercial real estate (beta)</li> <li>Long-term inflation protection</li> </ul> | <ul><li>Volatility</li><li>Equity correlation</li></ul>  |
| Non-Core Strategies | Value-Add Return driver: income/appreciation Primary vehicle: varies Historical avg. returns: 8-10% Leverage: 40-70% Hold period: 3-5 years                     | Properties<br>requiring lease-<br>up, repositioning,<br>renovation or<br>rehabilitation | <ul> <li>Provides part current income<br/>and capital appreciation</li> <li>Some inflation protection</li> </ul>                                    | <ul> <li>Vehicles are semi-liquid or illiquid</li> <li>Vintage year is important</li> <li>Higher leverage vs. core</li> <li>Poor benchmarks</li> </ul> |
| Non-Core            | Opportunistic Return driver: appreciation Primary vehicle: closed-end funds Historical avg. returns: 10-12% Leverage: 60%+ Hold period: varies                  | Distressed investments, recapitalizations, development, etc.                            | <ul> <li>Real estate alpha through<br/>capital appreciation with<br/>minimal current income</li> </ul>  | <ul> <li>Vehicles are illiquid</li> <li>Vintage year is important</li> <li>High leverage</li> <li>Poor benchmarks</li> </ul>                           |



#### RELATIVE EXPECTED RISK RETURN PROFILE

#### ILLUSTRATIVE RISK / RETURN PROFILE







#### **DISCLAIMER**

Past performance is no guarantee of future results.

The opinions presented herein represent the good faith views of NEPC as of the date of this report and are subject to change at any time.

Information used to prepare this report was obtained directly from the investment managers or custodians, and market index data was provided by other external sources. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within.



#### **ALTERNATIVE INVESTMENT DISCLOSURES**

In addition, it is important that investors understand the following characteristics of non-traditional investment strategies including hedge funds, real estate and private equity:

- 1. Performance can be volatile and investors could lose all or a substantial portion of their investment
- 2. Leverage and other speculative practices may increase the risk of loss
- 3. Past performance may be revised due to the revaluation of investments
- 4. These investments can be illiquid, and investors may be subject to lock-ups or lengthy redemption terms
- 5. A secondary market may not be available for all funds, and any sales that occur may take place at a discount to value
- 6. These funds are not subject to the same regulatory requirements as registered investment vehicles
- 7. Managers may not be required to provide periodic pricing or valuation information to investors
- 8. These funds may have complex tax structures and delays in distributing important tax information
- 9. These funds often charge high fees
- 10. Investment agreements often give the manager authority to trade in securities, markets or currencies that are not within the manager's realm of expertise or contemplated investment strategy

