

Report From the Investment Department

Feb. 15, 2024

Investment Department Meeting Feb. 15, 2024



Matters requiring board action:

- Review and approval of the Statement of Investment Objectives & Policy and Statement of Fund Governance
- Educational or scheduled updates and reviews requiring no action today:
 - Summary of Investment Activity Report, December 2023 and January 2024
 - Initial review of the Proxy Voting Policy
 - Proxy Voting Summary for six months ending Dec. 31, 2023
 - Meketa quarterly performance review as of Dec. 31, 2023
 - Semiannual derivatives exposure as of Dec. 31, 2023
 - Meketa comments
 - Review of December 2023 and January 2024 investment transactions
- Summary of requests

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The Adoption of the Statement of Investment Objectives and Policy and Statement of Fund Governance



- Initial review in October 2023 meeting
- Board recently approved changes December 2022
- Most changes proposed are updates and fiduciary audit recommendations

Expected 10-Year Policy Returns



	Prior	Updated
Equity		
Domestic Equity	6.60%	6.90%
International	6.80%	7.70%
Alternatives	7.38%	9.10%
Private Equity	8.00%	9.90%
Opportunistic/Div	5.73%	7.90%
Fixed Income	1.75%	4.50%
Real Estate	5.75%	5.10%
Liquidity Reserve	1.00%	2.40%
Total Fund	6.03%	7.04%

Update Capital Market Assumptions



Exhibit 2: Asset Mix Policy and Return Expectations for STRS Ohio Total Fund

Asset Class	Target Allocation ⁵ (%)	Rebalancing Range (%)	Expected 10- Year Policy Returns ¹ (%)	Expected Management Net Returns ² (%)	Expected Total Return (%)
Equity					
Domestic	26	21-31	<u>6.90</u> 6.60	0.25	<u>7.15</u> 6.85
International	22	17-27	<u>7.70</u> 6.80	1.00	8.70 _{7.80}
Alternatives -Private Equity -Opportunistic/Div	19 ⁴ 9 ⁴ 10 ⁴	12-25 ⁴ 6-14 ⁴ 6-14 ⁴	9.107.38 9.908.00 7.905.73		9.107.38 9.908.00 7.905.73
Fixed Income	22	13-29	<u>4.50</u> 1.75	0.35	4.85 _{2.10}
-Core	17	13-22			
-Liquid Treasury	5	0-7			
Real Estate	10	6-13	<u>5.10</u> 5.75	1.00	<u>6.10</u> 6.75
Liquidity Reserve	1	0-5	2.401.00		<u>2.40</u> 1.00
Total Fund	100		7.04 6.03	0.40	7.446.43 ³

Update Capital Market Assumptions



4.5 From the 2022 Asset Liability Study, the 6.03% expected asset mix 10-year policy return was developed with reference to the observed long-term relationships among major asset classes. The Board believes this return expectation is reasonable but recognizes that the actual ten-year asset mix policy return can deviate significantly from this expectation – both positively and negatively. The volatility level associated with this asset mix is approximately 12.90%. The Board's investment consultant updates capital market assumptions on an annual basis. The most recent updated capital market assumption results in a 7.04% expected asset mix 10-year policy return and associated volatility level for the asset mix of approximately 11.76%.

Revision / Approval Dates



Revised/Approved Dates (current and past five years):

February 15, 2024

December 15, 2022

May 19, 2022

March 18, 2021

December 19, 2019

December 13, 2018

Fiduciary Audit Recommendation



- 4.0 Investment Decisions Delegated to Investment Staff
- 4.1 The Board, through the Executive Director, has delegated to qualified STRS Ohio investment staff the following investment management and implementation decisions:
- (e) Investment staff will determine the most suitable fund management approach, internal or external, by assessing internal capabilities, comparing costs and benefits, and considering potential external collaborations.
- 4.2 In making these decisions, STRS Ohio investment staff seeks the advice, guidance, and recommendations of Board-retained investment consultants, external investment managers and other experts and sources as considered prudent by STRS Ohio staff.
 - (d) Preparing, negotiating, and executing external investment manager mandates, guidelines and fee agreements.
 - (e) Investment staff will determine the most suitable fund management
 approach, internal or external, by assessing internal capabilities, comparing
 costs and benefits, and considering potential external collaborations.
 - 4.2 In making these decisions, STRS Ohio investment staff seeks the advice, guidance, and recommendations of Board-retained investment consultants, external investment managers and other experts and sources as considered prudent by STRS Ohio staff.

Fiduciary Audit Recommendation



5.0 Board Oversight

- 5.1 The Board requires investment staff to prepare and deliver an Annual Investment Plan that explains how STRS Ohio assets will be managed in order to achieve the Boardestablished investment objectives. This provides the Board a focused opportunity to:
 - Question and comment on staff's investment management plans;
 - (b) Request additional information and support about staff's investment intentions;
 and
 - (c) Express its confidence in the Annual Investment Plan.

5.4 External management fees are reviewed annually by the board. To facilitate this review staff and consultants prepare and deliver an annual review.

different investment decisions have on total fund, asset class, and manager level performance. Performance is monitored and evaluated with respect to risk and return objectives established by the Board.

- (a) Investment risks are monitored and evaluated quarterly by comparing total fund and asset class risk characteristics relative to suitable benchmarks.
- (b) Investment returns are monitored monthly and evaluated quarterly by comparing total fund and asset class returns relative to suitable benchmarks.

5.4 External management fees are reviewed annually by the board. To facilitate this review staff and consultants prepare and deliver an annual review.

5.5.4 Before approving or amending the criteria for monitoring and evaluating investment decisions, the Board seeks advice, guidance, and recommendations from STRS Ohio investment staff, Board-retained investment consultants, and other experts and sources as considered prudent by the Board. 2175 NW Raleigh Street Suite 300A Portland, OR 97210 503.226.1050 Meketa.com M

STRS

February 6, 2024

MEMORANDUM

TO: Mr. Dale Price, Chair

State Teachers Retirement Board of Ohio

275 East Broad Street Columbus, OH 43215

FROM: Meketa Investment Group ("Meketa")

DATE: February 6, 2024

RE: Approval of modifications to:

Statement of Investment Objectives and Policy ("SIOP")

Statement of Fund Governance ("SFG")

Dear Mr. Price,

The purpose of this memorandum is to provide Meketa's comments regarding proposed modifications to the STRS Ohio Statement of Investment Objectives and Policy ("SIOP") and the STRS Ohio Statement of Fund Governance ("SFG") documents. These items were recently prepared by STRS Ohio Staff and provided to Meketa for review, comment, and if appropriate, concurrence.

The SIOP is a critical document that forms the investment foundation of the STRS Ohio investment portfolio. This document contains the overarching policies and approaches by which the STRS Ohio investment portfolio is managed, while also expressing broad investment objectives, constraints, and methodologies that ensure the prudent investment of assets. There are 19 sections within this document, beginning with the overall purpose and objectives of the portfolio, followed by broad portfolio management parameters as well as high-level guidelines for individual asset classes. From Meketa's perspective, the most salient details pertain to the investment goals of STRS Ohio, strategic asset allocation details, risk budgets, and benchmarking.

The proposed changes to the SIOP reflect updated capital market assumptions from the STRS Ohio Board's investment consultant, Meketa, and how these assumptions impact asset class and total portfolio expected return and volatility estimates. While these updates are straight-forward in nature, we do believe that it is appropriate for Meketa to highlight that the overall structure and content of the SIOP is aligned with industry best practices. This is a document that Meketa and the STRS Ohio Board should be reviewing on a continual basis, and it should be expected that Meketa may propose more material modifications to the document over time. Meketa recommends the Board approve the Statement of Investment Objectives and Policy.

The SFG is evaluated in parallel with the SIOP, as it establishes the critical governance functions for overseeing and implementing the STRS Ohio investment portfolio. Proper governance is paramount

for a public retirement system to ensure that there are high degrees of transparency, accountability, and investment efficiencies in place.

The proposed changes to the SFG focus on two changes: 1) explicit delegation of authority to STRS Ohio Staff in choosing internal vs. external fund management, and 2) addition of an annual external management fee review by the Board. These changes reflect existing and sensible practices at STRS Ohio that should be reflected in policy. Furthermore, Meketa believes that these modifications are aligned with best practices given the delegated authority implementation model and portfolio risk budgets that naturally provide additional guardrails. Over time, Meketa will continue to assist the Board in evaluating the existing practices and policies at STRS Ohio. Meketa recommends the Board approve the Statement of Fund Governance.

The operational efficiencies and investment outcomes of a public retirement system are heavily dependent on the governance design and documentation that guide it. From Meketa's review of the various policies and procedures documents that outline the operations of STRS Ohio, we believe that STRS Ohio is in a good position to continue to provide sustainable benefits to beneficiaries.

Regards,

Colin Bebee, CFA Managing Principal

ande.

LaRoy Brantley Managing Principal

C. Latte De

BOSTON CHICAGO LONDON MIAMI NEW YORK PORTLAND SAN DIEGO

Callan

Callan LLC 1 Deforest Avenue Suite 101 Summit, NJ 07901





February 6, 2024

Mr. Dale Price, Chair State Teachers Retirement Board of Ohio 275 East Broad Street Columbus, OH 43215-3771

Dear Mr. Price,

Callan has reviewed the revised Statement of Investment Objectives and Policy, with particular attention to subsection 11.0 Alternative Investments (Private Equity & Opportunistic/Diversified). Callan believes the proposed changes to the capital market assumptions for Alternative Investments and its subcomponents are reasonable.

Callan recommends updating the Phase-In Target Weights Table in Section 4.5 since these have passed and the new target Alternative Investment target allocations approved in 2022 have been achieved.

Regards,

Pete Keliuotis

Executive Vice President





275 East Broad Street Columbus, OH 43215-3771 614-227-4090 www.strsoh.org

Approval of the Statement of Investment Objectives and Policy and Statement of Fund Governance

February 15, 2024

_____ moved, and _____ seconded, that the Board approve the amended Statement of Investment Objectives and Policy and Statement of Fund Governance.

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Summary of Investment Activity Report



- Highlights
- December/January returns and activity
- STRS Ohio midyear economic update

December Returns and Activity



- The total fund return for December was 3.00% net of cost, finishing the first half of fiscal 2023 at 4.14%
 - Domestic equity returns 5.1%, international equity returns 3.8%, fixed income returns 3.6%
- Rebalancing activity
 - Removed about \$720 million from domestic equities
 - Added about \$500 million to fixed income
- The calendar year 2023 total fund return was 11.51% net of estimated costs; this is relative to a benchmark return of 12.39%

January Returns and Activity



- The preliminary total fund return for January was +0.35% net of cost
- The preliminary total fund return for fiscal year to date is +4.50% net of cost
 - Domestic equity returns +1.6%, international equity +0.8%, fixed income -0.2%
- Rebalancing activity
 - Removed \$690 million from domestic and international equities
 - Added \$1 billion to fixed income
- Total investment assets ended January at approximately \$91.7 billion; higher by \$1.6 billion in fiscal year 2024



STRS Ohio Midyear Economic Update

Suchit Arora

Feb. 15, 2024

Better Economic Prospects Lower Recession Probability



Annual Plan Fiscal 2024: Below-Trend Growth

Real GDP Growth	Probability
> 3.0%	20%
0.5% - 3.0%	50%
< 0.5%	30%



Recession Probability: 25%

Inflation: Heading towards 2.0% target

Monetary Policy: Restrictive stance

Midyear Update Fiscal 2024: Above-Trend Growth

Real GDP Growth	Probability
> 3.0%	30%
0.5% - 3.0%	55%
< 0.5%	15%

Recession Probability: 10%

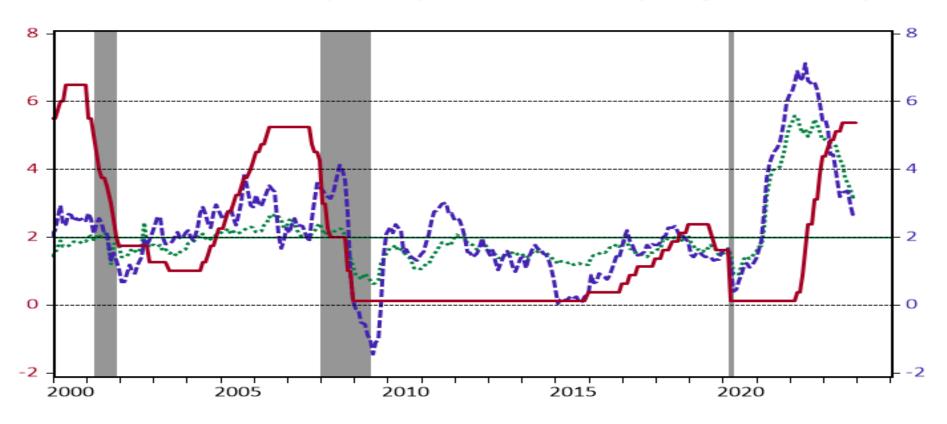
Inflation: Close to 2.0% target

Monetary Policy: Heading towards neutral stance

Inflation Is Near 2.0%; The Fed To Cut Policy Interest Rate



Federal Open Market Committee: Fed Funds Target Rate (EOP, %)
Personal Consumption Expenditure Inflation (% Chg. Year-to-Year)
Core Personal Consumption Expenditure Inflation (% Chg. Year-to-Year)



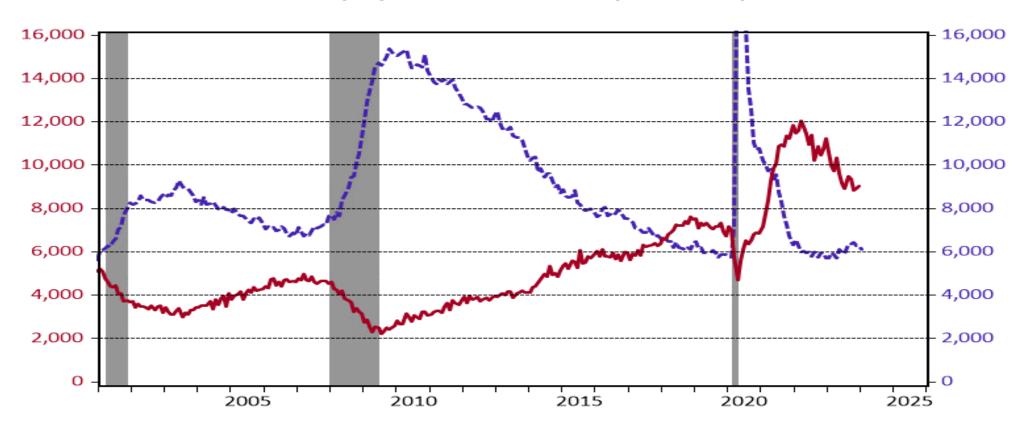
Sources: Federal Reserve Board, Bureau of Economic Analysis

Strong Labor Demand Has Kept Unemployment Low



JOLTS: Total Job Openings (Thousands)

Unemployed, 16 Years & Over (Thousands) --→



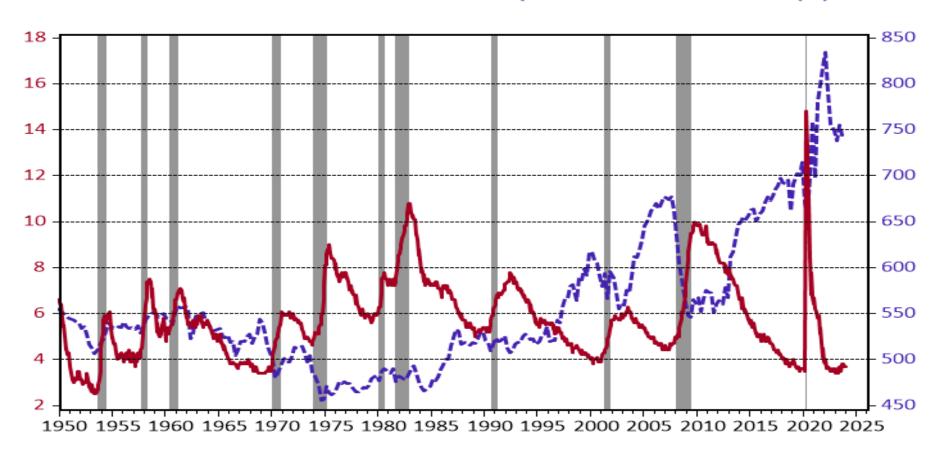
Source: Bureau of Labor Statistics

The Fundamentals For Consumer Spending Are Strong



← Civilian Unemployment Rate: 16 yr + (%)

Household Net Worth as Percent of Disposable Personal Income (%) --→



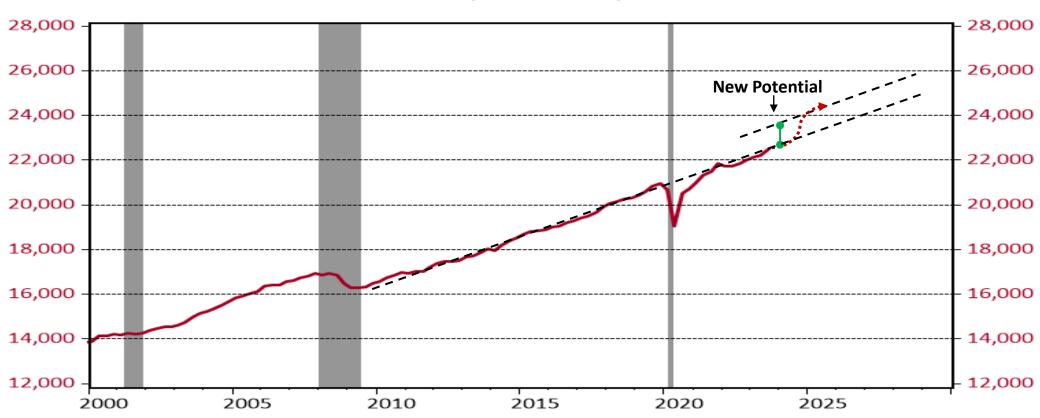
Sources: Bureau of Labor Statistics, Federal Reserve Board

Real GDP Growing Towards Higher Potential Level



Real Gross Domestic Product

SAAR, Bil.Chn.2017\$



Source: Bureau of Economic Analysis

Outlook: Strong Growth, Slow Inflation, Interest Rate Cuts



Real GDP growth

- Fiscal 2024: 3.4% annual rate, 10% probability of recession

Inflation

Near 2.0% policy target

Monetary policy

- The Federal Reserve to balance price stability and maximum employment

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Annual Review of the Stock Proxy Voting Policy



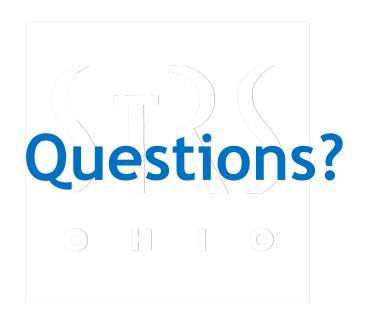
- Last update and approval: June 2023
- Annual policy review
 - Identify important proposals for upcoming proxy season
 - Update policy to address new issues encountered in the prior year
 - Steps and information resources:
 - Prior year proposals not addressed by current policy ("refer items")
 - Comparison of STRS Ohio Proxy Voting Policy against policies used by other funds
 - California State Teachers Retirement System Public Pension Fund
 - Office of Illinois State Treasurer Public Pension Fund
 - Calvert Research and Management Private Fund
 - The standard policy used by Institutional Shareholder Services
 - Ongoing review:
 - Newsletters, conference calls, webinars, etc. provided by CII (Counsel of Institutional Investors), ISS
 - Informational resources such as Wall Street Journal

Proposed Additions/Updates to STRS Ohio Stock Proxy Voting Policy



- One proposed addition
 - Update guideline: Board Representation
 - Original Policy Language:
- "STRS Ohio will vote for resolutions asking for a company to make a greater effort to review women and minority candidates for nomination to the board of directors."
 - Proposed update:
- "STRS Ohio will vote for resolutions asking a company to make a greater effort to review potential board candidates with a diverse mix of skills that are most appropriate to the company's long-term needs, including candidates that provide gender, racial and cultural diversity."





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Voting Summary July 1, 2023-Dec. 31, 2023



NUMBER OF MEETINGS

1,279 1,800

MANAGEMENT PROPOSALS	Number of Times	erpe Obio	etpe Ohio	etpe Abia	STRS Ohio	STRS Ohio	STRS Ohio	STRS Ohio	Percentage (%)	STRS Ohio	Percentage (%)
IVAVAGEIVEIVI PROPOSALS											
	Issues Appeared	Voted	Voted	Voted	Voted	Voted	Voted	Voted	of Voting	Voted	of Voting
Category/Description	on a Ballot	"FOR"	"AGAI NST"	"ABSTAIN"	"МІТННОГО"	"DO NOT VOTE"	"OTHER"	"WITH MGMT"	"WITH MGMT"	"AGAINST MGMT"	"AGAINST MGMT"
Audit	519	491	26	0	0	2	0	491	95%	26	5%
Capitalization	876	787	89	0	0	0	0	787	90%	89	10%
Company Articles	264	207	57	0	0	0	0	207	78%	57	22%
Compensation	1499	1107	271	0	0	1	120	1218	81%	280	19%
Corporate Governance	0	0	0	0	0	0	0	0	0%	0	0%
Director Election	3662	3021	268	22	350	1	0	3039	83%	622	17%
Director Related	552	451	97	0	0	4	0	453	82%	95	17%
Environmental/Social (blended)	2	2	0	0	0	0	0	2	100%	0	0%
Environmental	4	4	0	0	0	0	0	4	100%	0	0%
Miscellaneous	75	61	14	0	0	0	0	63	84%	12	16%
Non Research	98	38	60	0	0	0	0	98	100%	0	096
Non-Routine Business	246	228	18	0	0	0	0	228	93%	18	7%
Routine Business	708	653	50	0	0	5	0	655	93%	48	7%
Social	40	39	1	0	0	0	0	39	98%	1	3%
Strategic Transactions	280	196	82	0	0	2	0	196	70%	82	29%
TakeoverRelated	109	99	10	0	0	0	0	99	91%	10	9%
Total	8934	7384	1043	22	350	15	120	7579	85%	1340	15%

SHAREHOLDER PROPOSALS	Number of Times	STRS Ohio	STRS Ohio	STRS Ohio	Percentage (%)	STRS Ohio	Percentage (%)				
	Issues Appeared	Voted	Voted	Voted	Voted	Voted	Voted	Voted	of Voting	Voted	of Voting
Category/Description	on a Ballot	"FOR"	"AGAINST"	"ABSTAIN"	"ШОННТІМ"	"DO NOT VOTE"	"OTHER"	"WITH MGMT"	"WITH MGMT"	"AGAINST MGMT"	"AGAINST MGMT"
Audit	29	28	1	0	0	0	0	29	100%	0	0%
Capitalization	1	1	0	0	0	0	0	1	100%	0	0%
Company Articles	8	2	6	0	0	0	0	7	88%	1	13%
Compensation	11	4	7	0	0	0	0	5	45%	6	55%
Corporate Governance	3	3	0	0	0	0	0	1	33%	2	67%
Director Election	97	69	18	0	0	10	0	87	90%	0	096
Director Related	10	1	5	0	0	4	0	4	40%	2	20%
Environmental/Social (blended)	5	4	1	0	0	0	0	1	20%	4	80%
Environmental	13	5	8	0	0	0	0	8	62%	5	38%
Miscellaneous	22	15	7	0	0	0	0	20	91%	2	9%
Non Research	0	0	0	0	0	0	0	0	0%	0	0%
Non-Routine Business	4	1	1	0	0	2	0	2	50%	0	0%
Routine Business	0	0	0	0	0	0	0	0	0%	0	096
Social	15	7	8	0	0	0	0	8	53%	7	47%
Strategic Transactions	0	0	0	0	0	0	0	0	0%	0	096
TakeoverRelated	0	0	0	0	0	0	0	0	0%	0	0%
Total	218	140	62	0	0	16	0	173	79%	29	13%
					•						
GRAND TOTAL	9152	7524	1105	22	350	31	120	7752	85%	1369	15%

• Complete listing of votes by company is available (Phone Book)

Proxy Voting Summary for Six Months Ending Dec. 31, 2023



- Vote totals this period
 - 1,279 shareholder meetings
 - 1,800 ballots
 - 9,152 proposals
- All proposals voted, except countries with share blocking

Argentina Curacao Egypt

Iceland Kazakhstan Lebanon

Luxembourg Mauritius Morocco

Norway Switzerland

 To the best of our knowledge all proxies have been voted in accordance with the STRS Ohio proxy voting policy

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State Teachers Retirement System of Ohio

February 15, 2024

4Q23 Performance Report



Agenda

Agenda

- 1. Trustee Summary Report
- 2. Economic & Market Update
- 3. STRS Ohio Investment Performance
- 4. Additional Trustee Summary Reports
- 5. Investment Manager Performance

MEKETA INVESTMENT GROUP

Trustee Summary Report



State Teachers' Retirement System of Ohio

Trustee Summary Report | As of December 31, 2023

STRS Ohio Total Fund Report Fiscal YTD, 1, 3, 5, 10, & 20 Years

Periods Ending December, 2023 Annualized Rates of Return

Experienced Returns	
Have returns affected funded ratio?	
1. Total fund return *	
2. Actuarial discount rate ***	
3. Relative Performance (1-2)	
Has plan been rewarded for capital market risk?	
4. Total fund benchmark return	
5. Minimum risk/high cost policy of 91-Day T-Bills	
6. Impact of asset mix policy (4-5)	
Has plan been rewarded for active management	risk?
7. Active management effect (1-4) *	

Fiscal YTD	cal YTD 1 Year		5 Years	10 Years	20 Years
3 32 2			2	0	6. P
4.20%	11.64%	6.43%	9.89%	8.12%	7.94%
3.50%	7.00%	7.00%	7.18%	7.41%	7.68%
0.70%	4.64%	-0.57%	2.71%	0.72%	0.26%
4.51%	12.40%	5.53%	9.24%	7.65%	7.58%
2.70%	5.02%	2.15%	1.88%	1.25%	1.41%
1.81%	7.38%	3.38%	7.36%	6.40%	6.17%
-0.31%	-0.76%	0.90%	0.65%	0.47%	0.36%
-0.38%	-0.89%	0.78%	0.53%	0.34%	0.24%

The STRS real estate return includes the use of leverage.

^{*}Gross returns are net of transaction costs and gross of management fees, except for alternative investments & real estate where the return is also net of all external investment management fees and costs, including carried interest and other fund expenses. Certain Meketa returns may differ from STRS due to rounding.

^{**}Net returns are net of all internal and external investment management fees and costs, including carried interest and other fund expenses.
***The actuarial rate of return assumption was decreased from 7.45% to 7.00%, effective as of 6/30/2021.

Economic and Market Update

Data as of December 31, 2023

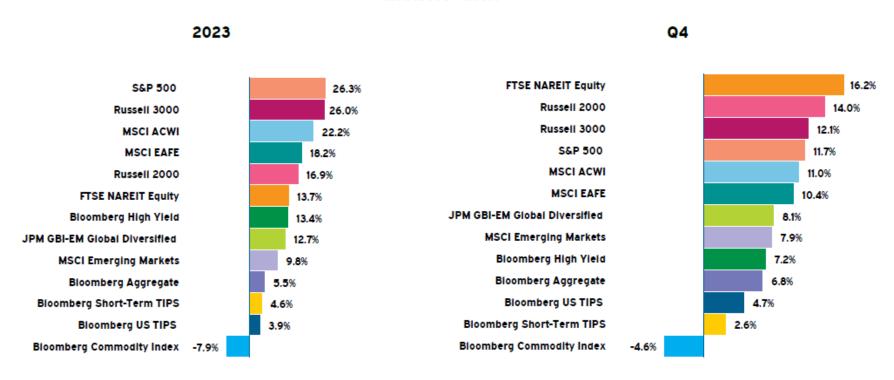


Commentary

- → Most markets rallied in the fourth quarter in anticipation that policy rates cuts were ahead in 2024.
 - Major central banks have largely paused interest rates hikes. Markets are now largely expecting the FOMC to maintain interest rates at the current levels and begin cutting rates as soon as Q1 2024.
 - Inflation rose in December in the US and Europe, but both finished the year much lower than where they started. China remained in deflationary territory (-0.3%) at year-end.
 - US equity markets (Russell 3000 index) posted strong gains for the quarter (12.1%), raising full year results to +26.0%. Most sectors rallied, with more defensive sectors lagging.
 - Non-US developed equity markets also rallied in the fourth quarter (MSCI EAFE 10.4%), with the weakening of the US dollar contributing meaningfully (10.4% versus 5.0% ex.-US dollar influence). The performance difference between US and international developed equities for the year remained wide (26.0% versus 18.2%).
 - Emerging market equities were up 7.9% in the fourth quarter and 9.8% for calendar 2023 but trailed developed markets due to lagging returns in China (-4.2% Q4/-112% one-year). Emerging market equities ex.-China returned 20% in 2023.
 - Interest rates generally fell in the fourth quarter, particularly for longer-dated maturities. The broad US bond market rallied (6.8%) for the quarter, lifting 2023 returns into positive territory (5.5%).
- → Looking to 2024, the paths of inflation and monetary policy, China's economic disorder and slowing economic growth, and the wars in Ukraine and Israel, will be key.



Index Returns¹



- → After a tough start to the quarter on lingering fears that the Federal Reserve might keep interest rates "higher for longer", markets rallied in November and December. Economic data generally coming in below expectations sparked expectations that the Federal Reserve might really be done raising policy rates for this cycle.
- → Strong results for the quarter built on gains for the year with all asset classes finishing in positive territory in 2023, except commodities.

¹ Source: Bloomberg. Data is as of December 31, 2023.





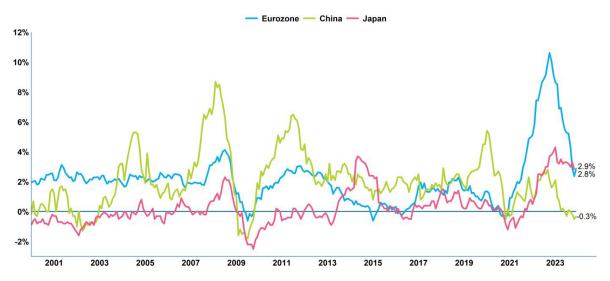


- → The more policy sensitive short-term maturities were higher this year while longer-term maturities finished the year where they started.
- → Still, rates declined sharply over the quarter, particularly at the longer end of the yield curve on continued easing of inflation-related risks and speculation that the Federal Reserve is done with their policy rate increases for this cycle.
- → For the quarter, two-year Treasury yields fell from 5.05% to 4.24% while ten-year Treasury yields declined from 4.56% to 3.88%.
- → The yield curve remained inverted at year-end despite a recent flattening trend. The spread between the 2-year and 10-year Treasury was -0.37% at the end of December.

¹ Source: Bloomberg. Data is as of December 31, 2023.



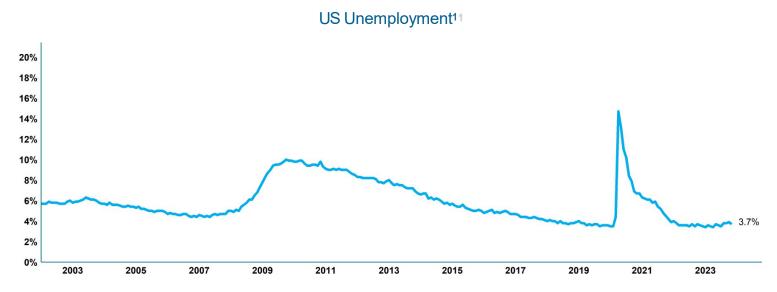
Global Inflation (CPI Trailing Twelve Months)¹



- → Outside the US, inflation is also falling across major economies with China slipping into deflation.
- → In the eurozone, inflation experienced a dramatic decline last year. Despite a small increase in December (2.9% versus 2.4%) it finished the year below the 3.4% year-over-year reading in the US.
- → Inflation in Japan remains near levels not seen in almost a decade, driven by food and home related items.

¹ Source: FRED for United States CPI and Eurozone CPI. Source: Bloomberg for Japan CPI, China CPI, and Eurozone December flash estimate. Data is as December 31, 2023, except Japan which is as of November 30, 2023.





- → Overall, the US labor market remains healthy with the unemployment rate relatively low, wage growth now positive in real terms, and initial claims for unemployment staying subdued.
- → In December, US unemployment remained unchanged (3.7%) and came in slightly below expectations of an increase to 3.8%. The number of jobs added did come in above expectations (216k versus 175k) though with the most jobs added in the government, leisure and hospitality, and health care sectors.
- → The labor force participation remained relatively stable at 62.5%, well off the lows of the pandemic (60.1%) but not back to pre-pandemic levels (63.3%).
- → The pace of hourly wage growth has declined from its peak of close to 6.0% finishing 2023 at 4.1% yoy. Wage growth remains positive in real terms though.

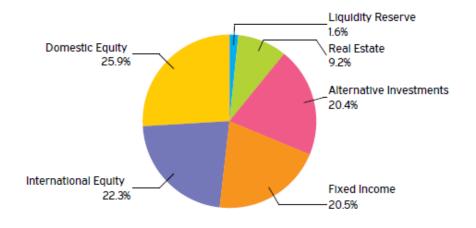
STRS Ohio Investment Performance



Total Fund | As of December 31, 2023

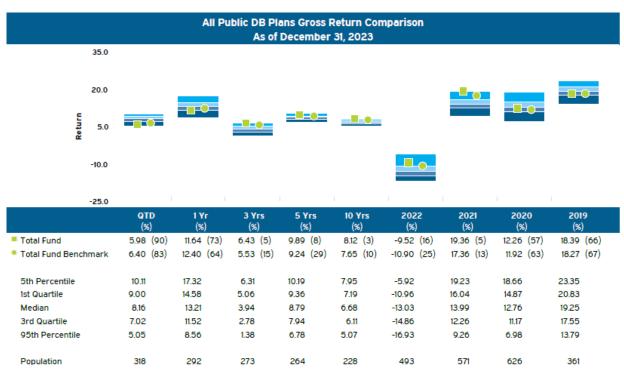
		ocation vs. Target cember 31, 2023		
Asset Class	Current Balance (\$M)	Current Allocation (%)	Policy (%)	Difference (%)
Domestic Equity	\$23,755	25.9	26.0	-0.1
International Equity	\$20,407	22.3	22.0	0.3
Fixed Income	\$18,824	20.5	22.0	-1.5
Liquidity Reserve	\$1,507	1.6	1.0	0.6
Real Estate	\$8,434	9.2	10.0	-0.8
Alternative Investments	\$18,703	20.4	19.0	1.4
Total	\$91,631	100.0	100.0	0.0

Actual Asset Allocation





Plan Sponsor Peer Group Analysis | As of December 31, 2023



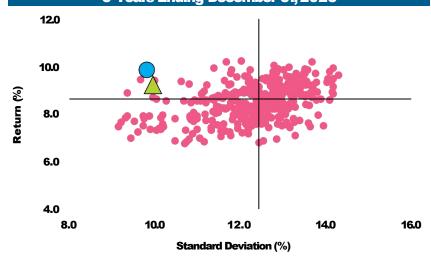
- → For the one-year period as of 12/31/2023, STRS Ohio underperformed the benchmark by 76 basis points and ranked in the 73rd percentile of the eVestment All Public DB Plans universe.
- → For the five-year period as of 12/31/2023, STRS Ohio outpaced the benchmark by 65 basis points and ranked in the 8th percentile of the eVestment All Public DB Plans universe.
- → For the ten-year period as of 12/31/2023, STRS Ohio outpaced the benchmark by 47 basis points and ranked in the 3rd percentile of the eVestment All Public DB Plans universe.

Gross returns are net of transaction costs and gross of management fees, except for alternative investments & real estate where the return is also net of all external investment management fees and costs, including carried interest and other fund expenses. Certain Meketa returns may differ from STRS due to rounding.

Parentheses contain percentile rankings. Calculation based on monthly periodicity. Universe is All Public DB Plans.



Annualized Return vs. Annualized Standard Deviation 5 Years Ending December 31, 2023



Total Fund Benchmark

InvMetrics Public DB > \$1B Gross

	Return	Standard Deviation
Total Fund	9.89 (8)	9.81 (11)
Total Fund Benchmark	9.24 (29)	9.95 (12)
All Public DB Plans Median	8.79	12.08

State Teachers' Retirement System of Ohio

Plan Sponsor Peer Group Analysis | As of December 31, 2023

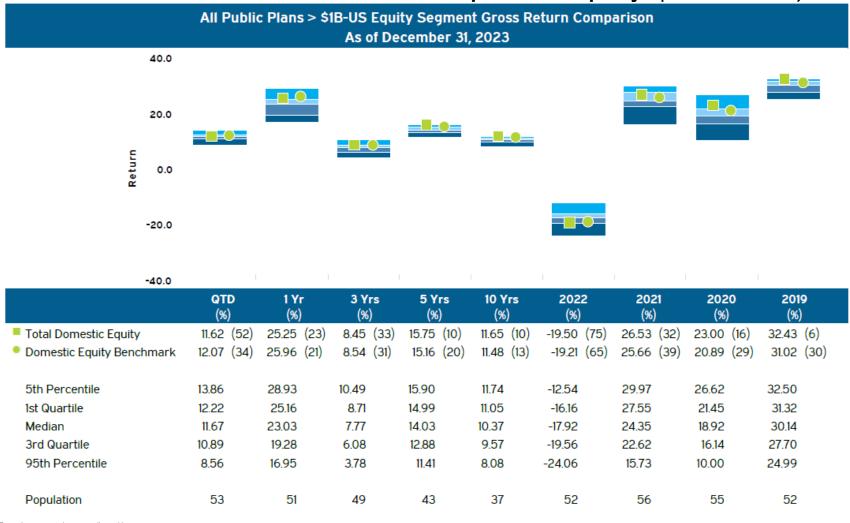
- → For the five-year period as of December 31st, 2023, STRS Ohio posted an annualized return of 9.89%, versus the 9.24% return of the total fund benchmark.
- → STRS Ohio's trailing five-year return ranked at the 8th percentile, while exhibiting less risk than the median of the eVestment All Public DB Plans ("risk" as measured by Standard Deviation).

Gross returns are net of transaction costs and gross of management fees, except for alternative investments & real estate where the return is also net of all external investment management fees and costs, including carried interest and other fund expenses. Certain Meketa returns may differ from STRS due to rounding.

MEKETA INVESTMENT GROUP Page 14 of 38



Plan Sponsor Peer Group Analysis | As of December 31, 2023

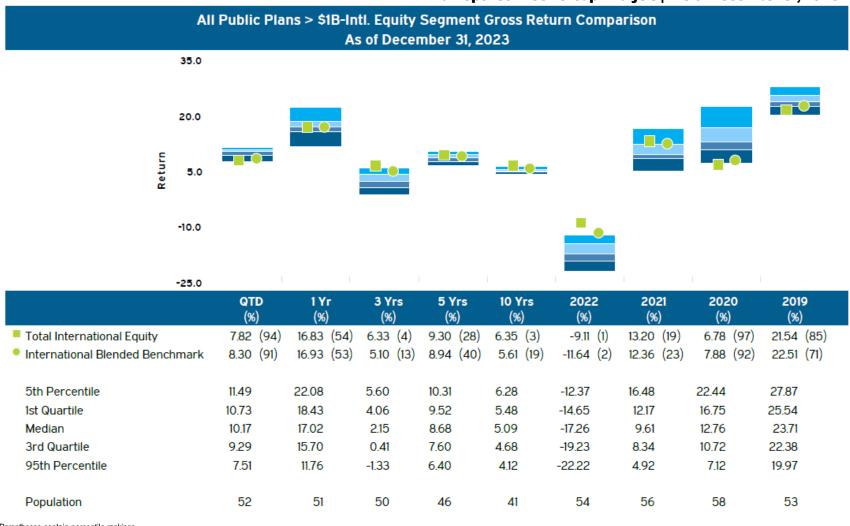


Parentheses contain percentile rankings.

Calculation based on monthly periodicity. Universe is All Public Plans > \$1B-US Equity Segment.



Plan Sponsor Peer Group Analysis | As of December 31, 2023

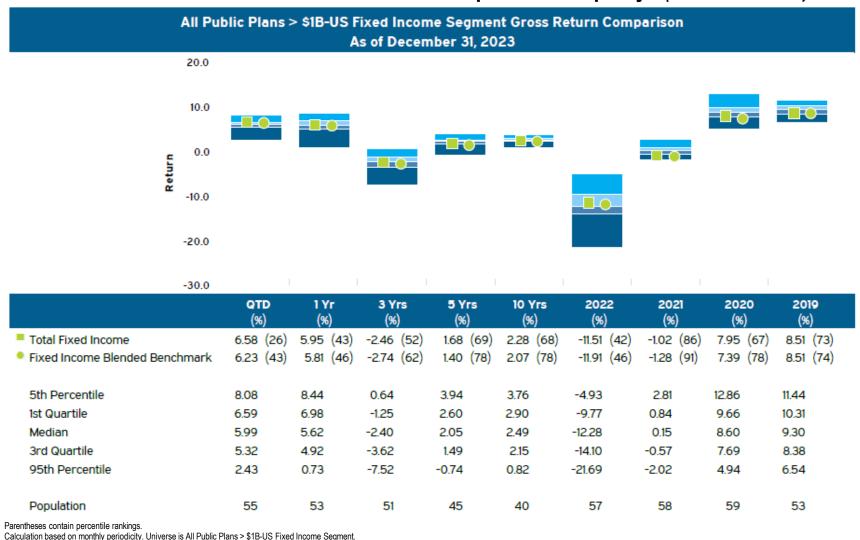


Parentheses contain percentile rankings.

Calculation based on monthly periodicity. Universe is All Public Plans > \$1B-Intl. Equity Segment.



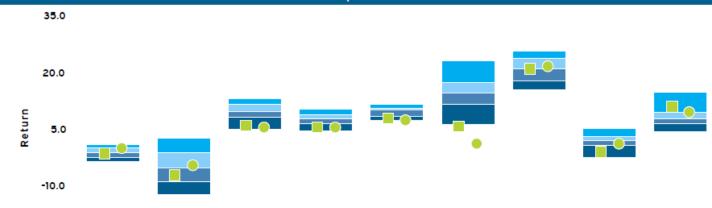
Plan Sponsor Peer Group Analysis | As of December 31, 2023





Plan Sponsor Peer Group Analysis | As of December 31, 2023

All Public Plans > \$1B-Real Estate Segment Gross Return Comparison As of December 31, 2023



-25.0									
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	2022 (%)	2021 (%)	2020 (%)	2019 (%)
■ Total Real Estate	-1.63 (61)	-7.32 (71)	5.68 (90)	5.22 (88)	7.68 (85)	5.56 (97)	20.64 (57)	-1.27 (88)	10.65 (21)
Real Estate Blended Benchmark	-0.14 (24)	-4.72 (47)	5.26 (93)	5.16 (89)	7.17 (94)	0.85 (100)	21.38 (45)	0.89 (72)	9.31 (26)
5th Percentile	0.67	2.33	12.93	10.00	11.38	22.96	25.39	5.06	14.48
1st Quartile	-0.18	-1.32	11.33	8.53	10.14	17.06	23.46	2.84	9.40
Median	-1.42	-5.51	9.62	7.56	9.70	14.22	20.83	1.66	7.68
3rd Quartile	-2.67	-9.03	7.89	6.27	8.03	11.48	17.66	0.53	6.15
95th Percentile	-3.85	-12.56	4.84	4.26	7.10	5.92	15.20	-2.58	3.95
Population	43	38	33	25	14	39	38	36	34
Parentheses contain percentile rankings. Calculation based on monthly periodicity. Universe is All	Public Plans > \$1B-Re	al Estate Segment.							

Additional Trustee Summary Reports



Gross and Net Total Fund Returns | As of December 31, 2023

Gross and Net Total Fund Returns

Periods Ending December, 2023 Annualized Rates of Return

Gross and net total fund return

- 1. Total fund return *
- 2. External alternative & real estate mgmt. fees reflected in line 1 **
- 3. Gross total fund return (1 + 2)
- 4. Total investment management costs
- 5. Net total fund return (3-4) ***

Fiscal YTD	1 Year	3 Year	5 Year	10 Year	20 Year
4.20%	11.64%	6.43%	9.89%	8.12%	7.94%
0.11%	0.22%	0.22%	0.23%	0.22%	0.18%
4.31%	11.86%	6.65%	10.12%	8.34%	8.12%
0.17%	0.35%	0.34%	0.35%	0.35%	0.30%
4.13%	11.51%	6.31%	9.77%	7.99%	7.82%

^{*}Gross returns are net of transaction costs and gross of management fees, except for alternative investments & real estate where the return is also net of all external investment management fees and costs, including carried interest and other fund expenses. Certain Meketa returns may differ from STRS due to rounding.

^{**}Includes management fees net of fee waivers/rebates and does not include carried interest of other fund expenses.

^{***}Net returns are net of all internal and external investment management fees and costs, including carried interest and other fund expenses.



Total Investment Management Costs | As of December 31, 2023

Total Investment Management Costs

Total Investment Management Costs *

Externally Managed:

Alternative Investments

Real Estate

All Other External Managers **

Internal Managers

Total Investment Management Costs *

2022 Investment Management Costs *

Fees to Assets Managed (bps)	Fees to Total Fund (bps)	Fee	es (\$000's)	As	c. 2022 ssets Ilions)
104	20	\$	187,035	\$	18.4
153	2	\$	19,363	\$	1.3
39	6	\$	52,583	\$	12.1
13	7	\$	63,833	\$	54.1
35	35	\$	322,814	\$	85.9

^{*}Annual fees are based upon the preliminary CEM investment report for calendar year 2022. Investment management costs include internal investment department salaries, incentive compensation, benefits, external manager fees, the allocation of ITS costs, overhead expenses, oversight, custodial & other costs. Investment management costs exclude carried interest and other fund expenses.

^{**} Includes fixed income, domestic equity, and international equity external manager fees.



Asset Allocation & Performance | As of December 31, 2023

	Trailing Asso	et Class Perf	ormance					
	Market Yrs Value (\$)	% of Portfolio	QTD (%)	FYTD (%)	1Yr (%)	3 Yrs (%)	5 Yrs (%)	10 (%)
Total Fund	91,630,549,529	100.00	5.98	4.20	11.64	6.43	9.89	8.12
Total Fund Benchmark			6.40	4.51	12.40	5.53	9.24	7.65
Total Domestic Equity	23,649,213,146	25.81	11.62	8.52	25.25	8.45	15.75	11.65
Domestic Equity Benchmark			12.07	8.43	25.96	8.54	15.16	11.48
Total Fund Allocation Portfolio	106,113,965	0.12	11.39	7.02	21.94	2.78	10.99	7.08
Total International Equity	20,407,118,513	22.27	7.82	4.93	16.83	6.33	9.30	6.35
International Blended Benchmark			8.30	5.62	16.93	5.10	8.94	5.61
Total Fixed Income	18,824,361,796	20.54	6.58	3.78	5.95	-2.46	1.68	2.28
Fixed Income Blended Benchmark			6.23	3.68	5.81	-2.74	1.40	2.07
Total Real Estate	8,433,929,576	9.20	-1.63	-4.75	-7.32	5.68	5.22	7.68
Real Estate Blended Benchmark			-0.14	-2.36	-4.72	5.26	5.16	7.17
Total Alternative Investments	18,702,971,460	20.41	0.42	2.58	5.44	13.26	12.22	10.98
Alternative Investments Blended Benchmark			0.38	2.09	6.52			
Liquidity Reserve	1,506,841,073	1.64	1.43	2.81	5.30	2.28	1.93	1.30
Liquidity Reserve Index			1.37	2.70	5.02	2.15	1.88	1.25

Gross returns are net of transaction costs and gross of management fees, except for alternative investments & real estate where the return is also net of all external investment management fees and costs, including carried interest and other fund expenses. Certain Meketa returns may differ from STRS due to rounding.

Fiscal year begins July 1.

MEKETA INVESTMENT GROUP Page 22 of 38

Investment Manager Performance



Asset Allocation & Performance | As of December 31, 2023

	Trailing Investment N	lanager Per	formanc	е				
	Market	% of	QTD	FYTD	1Yr	3 Yrs	5 Yrs	10 Yrs
	Value (\$)	Portfolio	(%)	(%)	(%)	(%)	(%)	(%)
Total Fund	91,630,549,529	100.00	5.98	4.20	11.64	6.43	9.89	8.12
Total Fund Benchmark			6.40	4.51	12.40	5.53	9.24	7.65
Total Domestic Equity	23,649,213,146	25.81	11.62	8.52	25.25	8.45	15.75	11.65
Domestic Equity Benchmark			12.07	8.43	25.96	8.54	15.16	11.48
eV All US Equity Median			11.93	8.07	19.02	8.71	13.87	10.09
Total 1000 Equity	21,240,537,745	23.18	11.52	8.60	26.23	8.97	16.15	11.94
Russell 1000 Index			11.96	8.44	26.53	8.97	15.52	11.80
eV US Large Cap Equity Median			11.53	8.42	20.75	9.56	14.72	11.24
Total Internal 1000 Equity	21,240,537,745	23.18	11.52	8.60	26.23	9.05	16.20	11.96
eV US Large Cap Equity Median			11.53	8.42	20.75	9.56	14.72	11.24
STRS Analyst Select Fund	3,134,285,968	3.42	11.33	8.65	23.52	9.95	16.33	10.95
Russell 1000 Index			11.96	8.44	26.53	8.97	15.52	11.80
eV US Large Cap Core Equity Median			11.66	8.16	22.29	9.56	14.97	11.63
STRS Concentrated Select Fund	905,157,101	0.99	7.02	7.10	13.15	9.09	13.12	
Russell 1000 Index			11.96	8.44	26.53	8.97	15.52	
eV US Large Cap Equity Median			11.53	8.42	20.75	9.56	14.72	
STRS Large Cap Passive Quantitative	8,733,808,791	9.53	11.74	8.78	29.90	10.06	16.54	12.71
Russell Top 200 Index			11.70	8.73	29.85	10.04	16.53	12.70
eV US Large Cap Equity Median			11.53	8.42	20.75	9.56	14.72	11.24
STRS Integrated Factor Index	979,269,704	1.07	11.73	7.09	12.37	7.58	12.86	
Russell 1000 Index			11.96	8.44	26.53	8.97	15.52	
eV US Large Cap Equity Median			11.53	8.42	20.75	9.56	14.72	



Asset Allocation & Performance | As of December 31, 2023

		ASSEL A	uiocation e	X P CI IUI II	iance A	3 OI DECE	311DC1 31, Z	UZJ
	Market Value (\$)	% of Portfolio	QТD (%)	FYTD (%)	1Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)
STRS Large Cap Value	1,567,252,275	1.71	9.56	6.31	13.49	9.46	12.24	9.31
Large Cap Value Custom Index			9.50	6.03	11.46	8.86	10.91	8.30
eV US Large Cap Value Equity Median			10.06	7.63	12.99	10.70	12.67	9.52
STRS Large Cap Growth	2,856,745,260	3.12	14.91	13.09	48.97	7.88	19.81	14.86
Large Cap Growth Blended Index			14.16	10.59	42.68	8.86	19.50	14.8
eV US Large Cap Growth Equity Median			13.85	10.08	38.88	7.04	17.15	13.4
STRS Mid Cap Value	2,194,942,915	2.40	8.43	4.09	10.93	9.44	12.06	7.9
Russell Midcap Value Index			12.11	7.11	12.71	8.36	11.16	8.2
eV US Mid Cap Value Equity Median			11.54	7.83	13.71	10.91	13.04	9.0
STRS Mid Cap Growth	869,075,731	0.95	15.08	11.23	30.88	1.12	14.18	10.7
Russell Midcap Growth Index			14.55	8.56	25.87	1.31	13.81	10.5
eV US Mid Cap Growth Equity Median			13.24	6.73	23.46	1.07	14.05	10.8
otal 2000 Equity	2,408,675,401	2.63	12.42	7.77	16.54	4.19	12.04	8.8
Russell 2000 Index			14.03	8.18	16.93	2.22	9.97	7.1
eV US Small Cap Core Equity Median			12.53 17.63		9	7.50	12.66	9.0
Total Internal 2000 Equity	891,708,255	0.97	12.95	8.73	16.42	5.14	9.84	7.5
Russell 2000 Index			14.03	8.18	16.93	2.22	9.97	7.1
eV US Small Cap Core Equity Median			12.53	7.49	17.63	7.50	12.66	9.0
STRS Small Cap Select	381,152,478	0.42	11.74	6.91	16.18	6.20	10.07	
Russell 2000 Index			14.03	8.18	16.93	2.22	9.97	
eV US Small Cap Core Equity Median			12.53	7.49	17.63	7.50	12.66	

MEKETA INVESTMENT GROUP Page 25 of 38



Asset Allocation & Performance | As of December 31, 2023

	Market Value (\$)	% of Portfolio	QTD (%)	FYTD (%)	1Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yr: (%)
STRS Quantitative 2000	510,555,777	0.56	13.86	10.08	16.64	4.52	9.66	7.93
Russell 2000 Index			14.03	8.18	16.93	2.22	9.97	7.1
eV US Small Cap Core Equity Median			12.53	7.49	17.63	7.50	12.66	9.0
otal External 2000 Equity	1,516,967,146	1.66	12.12	7.22	16.62	3.60	13.31	9.5
Russell 2000 Index			14.03	8.18	16.93	2.22	9.97	7.1
eV US Small Cap Equity Median			12.35	7.34	17.49	7.49	12.54	8.9
Small Cap Core	480,363,743	0.52	13.34	10.95	22.75	9.84	15.13	10.4
Russell 2000 Index			14.03	8.18	16.93	2.22	9.97	7.1
eV US Small Cap Core Equity Median			12.53	7.49	17.63	7.50	12.66	9.0
Fuller & Thaler Core	352,783,041	0.39	14.82	13.10	25.44	12.01	17.32	12.8
Russell 2000 Index			14.03	8.18	16.93	2.22	9.97	7.1
eV US Small Cap Core Equity Median			12.53	7.49	17.63	7.50	12.66	9.0
Fuller & Thaler Micro-Cap	127,580,702	0.14	8.92	4.69	15.04	4.20	9.58	4.8
Russell 2000 Index			14.03	8.18	16.93	2.22	9.97	7.3
eV US Small Cap Core Equity Median			12.53	7.49	17.63	7.50	12.66	9.0
Small Cap Value	684,778,275	0.75	11.31	6.97	14.34	7.37	11.54	8.2
Russell 2000 Value Index			15.26	11.85	14.65	7.94	10.00	6.7
eV US Small Cap Value Equity Median			12.94	9.78	17.34	10.78	12.53	8.3
Chartwell	322,842,448	0.35	13.75	9.02	14.09	9.51	9.51	7.1
Russell 2000 Value Index			15.26	11.85	14.65	7.94	10.00	6.7
eV US Small Cap Value Equity Median			12.94	9.78	17.34	10.78	12.53	8.3

MEKETA INVESTMENT GROUP Page 26 of 38



Asset Allocation & Performance | As of December 31, 2023

		ASSET AIRCO	audii Gi C		OI I		,	
	Market Value (\$)	% of Portfolio	QТD (%)	FYTD (%)	1Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)
Neuberger Berman	361,935,827	0.39	9.25	5.15	14.66	5.50	13.42	9.34
Russell 2000 Value Index			15.26	11.85	14.65	7.94	10.00	6.76
eV US Small Cap Value Equity Median			12.94	9.78	17.34	10.78	12.53	8.31
Small Cap Growth	351,825,128	0.38	11.98	2.66	12.99	-8.48	11.90	9.68
Russell 2000 Growth Index			12.75	4.50	18.66	-3.50	9.22	7.16
eV US Small Cap Growth Equity Median			11.17	3.99	17.61	-1.53	12.41	9.55
Weatherbie Capital 2000 Growth	351,825,128	0.38	11.98	2.66	12.99	-8.48	11.90	10.77
Russell 2000 Growth Index			12.75	4.50	18.66	-3.50	9.22	7.1
eV US Small Cap Growth Equity Median			11.17	3.99	17.61	-1.53	12.41	9.5
otal Fund Allocation Portfolio	106,113,965	0.12	11.39	7.02	21.94	2.78	10.99	7.08
otal International Equity	20,407,118,513	22.27	7.82	4.93	16.83	6.33	9.30	6.3
International Blended Benchmark			8.30	5.62	16.93	5.10	8.94	5.6
eV ACWI ex-US All Cap Equity Median			10.18	4.73	16.70	1.39	8.10	4.6
Total EAFE	10,477,083,859	11.43	7.69	5.52	19.21	8.89	10.61	7.0
MSCI World ex USA 50% Hedged			8.41	5.82	18.68	7.67	10.15	6.2
eV Non-US Diversified All Cap Eq Median			10.22	5.41	17.76	3.26	8.82	5.2
Total Internal EAFE	4,414,849,034	4.82	8.39	6.17	19.50	8.61	9.45	5.9
MSCI World ex USA 50% Hedged			8.41	5.82	18.68	7.67	10.15	6.2
eV Non-US Diversified All Cap Eq Median			10.22	5.41	17.76	3.26	8.82	5.2
STRS Structured EAFE	2,100,760,464	2.29	8.25	6.00	18.87	7.95	10.46	6.5
MSCI World ex USA 50% Hedged			8.41	5.82	18.68	7.67	10.15	6.2

MEKETA INVESTMENT GROUP Page 27 of 38



Asset Allocation & Performance | As of December 31, 2023

					•		•	
	Market Value (\$)	% of Portfolio	QTD (%)	FYTD (%)	1Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yr: (%)
STRS EAFE Quantitative	2,314,088,570	2.53	8.52	6.32	19.85	9.20	8.43	5.37
MSCI World ex USA 50% Hedged			8.41	5.82	18.68	7.67	10.15	6.23
eV Non-US Diversified All Cap Eq Median			10.22	5.41	17.76	3.26	8.82	5.29
Total External EAFE	6,062,234,825	6.62	7.18	5.05	19.00	9.11	11.65	8.02
MSCI World ex USA 50% Hedged			8.41	5.82	18.68	7.67	10.15	6.2
eV Non-US Diversified All Cap Eq Median			10.22	5.41	17.76	3.26	8.82	5.2
Arrowstreet Capital	1,962,536,814	2.14	5.77	8.06	21.96	11.73	13.63	9.4
MSCI ACWI ex USA IMI 50% Hedged			8.43	5.94	18.05	7.03	9.99	6.0
eV Non-US Diversified All Cap Eq Median			10.22	5.41	17.76	3.26	8.82	5.2
AllianceBernstein EAFE Value	1,410,357,860	1.54	4.60	4.99	18.70	10.12	9.51	5.9
MSCI World ex USA 50% Hedged			8.41	5.82	18.68	7.67	10.15	6.2
eV Non-US Diversified All Cap Eq Median			10.22	5.41	17.76	3.26	8.82	5.2
MFS	2,689,340,151	2.93	9.67	3.03	17.17	6.15	11.24	8.3
MSCI World ex USA 50% Hedged			8.41	5.82	18.68	7.67	10.15	6.2
eV Non-US Diversified All Cap Eq Median			10.22	5.41	17.76	3.26	8.82	5.2
Total Emerging	2,699,114,081	2.95	8.30	5.59	13.59	-1.88	4.34	3.5
MSCI Emerging Markets (Net)			7.86	4.71	9.83	-5.08	3.68	2.6
eV Emg Mkts All Cap Equity Median			7.93	4.10	12.00	-3.97	5.59	4.1
Total Internal Emerging	2,323,022,407	2.54	8.01	5.63	14.16	-0.34	4.98	4.1
MSCI Emerging Markets (Net)			7.86	4.71	9.83	-5.08	3.68	2.6
eV Emg Mkts All Cap Equity Median			7.93	4.10	12.00	-3.97	5.59	4.1
STRS Active Emerging Combined	1,613,013,942	1.76	8.10	5.67	14.59	0.42	5.72	4.4
MSCI Emerging Markets (Net)			7.86	4.71	9.83	-5.08	3.68	2.6

MEKETA INVESTMENT GROUP Page 28 of 38



Asset Allocation & Performance | As of December 31, 2023

		Asset Alloca	ation & Pe	errormance	e Asotl	Jecember	<i>3</i> 1,2023	
	Market Value (\$)	% of Portfolio	QТD (%)	FYTD (%)	1Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yr (%)
STRS Emerging Market Quantitative	710,008,465	0.77	7.82	5.52	13.18	-2.09	3.31	3.2
MSCI Emerging Markets (Net)	, ,		7.86	4.71	9.83	-5.08	3.68	2.6
Total External Emerging	376,091,674	0.41	8.93	5.06	11.40	-7.04	1.94	1.8
MSCI Emerging Markets (Net)			7.86	4.71	9.83	-5.08	3.68	2.6
eV Emg Mkts All Cap Equity Median			7.93	4.10	12.00	-3.97	5.59	4.1
Genesis	376,091,674	0.41	8.93	5.06	11.41	-7.04	4.42	2.9
MSCI Emerging Markets (Net)			7.86	4.71	9.83	-5.08	3.68	2.6
eV Emg Mkts All Cap Equity Median			7.93	4.10	12.00	-3.97	5.59	4.1
otal Global Ex-US	7,210,468,875	7.87	7.84	3.85	14.98	5.79	9.33	6.3
International Blended Benchmark			8.30	5.62	16.93	5.10	8.94	5.0
MSCI AC World ex USA (Net)			9.75	5.61	15.62	1.55	7.08	3.8
eV Non-US Diversified All Cap Eq Median			10.22	5.41	17.76	3.26	8.82	5.2
Total Internal Global Ex-US	3,635,698,582	3.97	7.02	4.77	16.69	8.34	10.13	6.8
International Blended Benchmark			8.30	5.62	16.93	5.10	8.94	5.
MSCI AC World ex USA (Net)			9.75	5.61	15.62	1.55	7.08	<i>3</i> .
eV Non-US Diversified All Cap Eq Median			10.22	5.41	17.76	3.26	8.82	5
STRS International Value	3,512,488,435	3.83	6.98	4.73	16.69	8.36	10.14	6.
International Blended Benchmark			8.30	5.62	16.93	5.10	8.94	5.
MSCI AC World ex USA (Net)			9.75	5.61	15.62	1.55	7.08	3.
eV Non-US Diversified All Cap Eq Median			10.22	5.41	17.76	3.26	8.82	5.
STRS International Analyst	123,210,147	0.13	8.17	5.86	16.55			
International Blended Benchmark			8.30	5.62	16.93			
MSCI AC World ex USA (Net)			9.75	5.61	15.62			
eV Non-US Diversified All Cap Eq Median			10.22	5.41	17.76			

MEKETA INVESTMENT GROUP Page 29 of 38



Asset Allocation & Performance | As of December 31, 2023

		ASSEL A	iocauon c	x Periorii	ance As	OI DECEII	10er <i>3</i> 1, 20	J 2 3
	Market Value (\$)	% of Portfolio	QTD (%)	FYTD (%)	1Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yı (%
Total External Global Ex-US	3,574,770,294	3.90	8.69	2.94	13.31	2.40	8.83	
International Blended Benchmark			8.30	5.62	16.93	5.10	8.94	
MSCI AC World ex USA (Net)			9.75	5.61	15.62	1.55	7.08	
Global Ex-US Standard	3,093,947,154	3.38	8.70	2.39	13.00	2.65	8.99	
International Blended Benchmark			8.30	5.62	16.93	5.10	8.94	
MSCI AC World ex USA (Net)			9.75	5.61	15.62	1.55	7.08	
Lazard	828,267,739	0.90	7.37	2.59	16.46	3.90	8.28	
International Blended Benchmark			8.30	5.62	16.93	5.10	8.94	
MSCI AC World ex USA (Net)			9.75	5.61	15.62	1.55	7.08	
Wellington International Opportunities	1,238,905,221	1.35	8.36	4.09	12.57	2.44	10.28	
International Blended Benchmark			8.30	5.62	16.93	5.10	8.94	
MSCI AC World ex USA (Net)			9.75	5.61	15.62	1.55	7.08	
William Blair	1,026,774,194	1.12	10.23	0.25				
International Blended Benchmark			8.30	5.62				
MSCI AC World ex USA (Net)			9.75	5.61				
Global Ex-US Small Cap	480,823,140	0.52	8.64	6.66	16.33			
MSCI ACWI ex USA Small Cap 50% Hedged			8.66	8.19	16.90			
Acadian	249,122,984	0.27	8.75	9.98	19.00			
MSCI ACWI ex USA Small Cap 50% Hedged			8.66	8.19	16.90			
American Century	172,406,755	0.19	7.92	1.67	12.01			
MSCI ACWI ex USA Small Cap 50% Hedged			8.66	8.19	16.90			
Wellington Small Cap	59,293,401	0.06	10.31	8.37	18.73			
MSCI ACWI ex USA Small Cap 50% Hedged			8.66	8.19	16.90			

MEKETA INVESTMENT GROUP Page 30 of 38



Asset Allocation & Performance | As of December 31, 2023

		ASSEL A	iiocauon e	s Periorma	IIICE AS	oi beceiii	ber 31, 20 <i>1</i>	LJ
	Market	% of	QTD	FYTD	1Yr	3 Yrs	5 Yrs	10 Yr
	Value (\$)	Portfolio	(%)	(%)	(%)	(%)	(%)	(%)
Total Fixed Income	18,824,361,796	20.54	6.58	3.78	5.95	-2.46	1.68	2.28
Fixed Income Blended Benchmark			6.23	3.68	5.81	-2.74	1.40	2.0
Liquid Treasury Portfolio	4,584,588,420	5.00	4.00	3.16	4.32	-1.81	1.08	
Blmbg. U.S. Treasury: Intermediate			3.99	3.15	4.28	-1.86	1.02	
Core Fixed Income	14,239,773,376	15.54	7.28	3.87	6.32	-2.63	1.75	2.3
Blmbg. U.S. Universal Index			6.83	3.76	6.17	-2.97	1.44	2.0
Global Bond Median			8.72	5.06	6.94	-4.72	0.53	1.2
STRS Fixed Income	12,488,626,924	13.63	7.17	3.43	5.60	-3.03	1.34	1.9
High-Yield	736,870,553	0.80	7.08	7.52	13.17	2.55	5.81	4.8
Blmbg. U.S. High Yield Index			7.16	7.66	13.44	1.99	5.37	4.6
High Yield Bond Median			6.74	7.41	13.14	2.57	5.60	4.7
BNY Mellon	81,180,519	0.09	7.13	7.72	13.51	2.06		
Blmbg. U.S. High Yield Index			7.16	7.66	13.44	1.99		
High Yield Bond Median			6.74	7.41	13.14	2.57		
JP Morgan	186,713,305	0.20	6.62	7.54	11.99	3.59		
Blmbg. U.S. High Yield Index			7.16	7.66	13.44	1.99		
High Yield Bond Median			6.74	7.41	13.14	2.57		
PGIM	178,686,335	0.20	7.21	7.76	13.14	2.87		
Blmbg. U.S. High Yield Index			7.16	7.66	13.44	1.99		
High Yield Bond Median			6.74	7.41	13.14	2.57		
PIMCO	290,290,395	0.32	7.29	7.30	13.86	2.02	5.70	5.0
Blmbg. U.S. High Yield Index			7.16	7.66	13.44	1.99	5.37	4.6
High Yield Bond Median			6.74	7.41	13.14	2.57	5.60	4.7

Asset Allocation & Performance | As of December 31, 2023

	Market Value (\$)	% of Portfolio	QTD (%)	FYTD (%)	1Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yr (%)
Emerging Debt	1,014,275,898	111	8.79	6.73	10.37	-1.71	2.51	3.70
Emerging Debt Index	,- , -,		8.10	5.61	9.09	-3.13	1.84	3.0
Emerging Markets Bond Median			9.11	6.96	12.53	-1.68	3.03	3.3
Fidelity Institutional Asset Management	372,703,807	0.41	8.84	7.44	11.05	-1.13	2.45	3.9
Emerging Debt Index			8.10	5.61	9.09	-3.13	1.84	3.0
Emerging Markets Bond Median			9.11	6.96	12.53	-1.68	3.03	3
MFS	475,100,861	0.52	8.81	6.21	9.88	-1.82		
Emerging Debt Index			8.10	5.61	9.09	-3.13		
Emerging Markets Bond Median			9.11	6.96	12.53	-1.68		
Payden & Rygel	166,471,230	0.18	8.61	6.60	10.24	-2.57		
Emerging Debt Index			8.10	5.61	9.09	-3.13		
Emerging Markets Bond Median			9.11	6.96	12.53	-1.68		
iquidity Reserve	1,506,841,073	1.64	1.43	2.81	5.30	2.28	1.93	1.3
Liquidity Reserve Index			1.37	2.70	5.02	2.15	1.88	1
Money Market-Tax-Free Median			0.91	1.80	3.36	1.56	1.36	0

MEKETA INVESTMENT GROUP Page 32 of 38

Asset Allocation & Performance | As of December 31, 2023

	Market Value (\$)	% of Portfolio	QТD (%)	FYTD (%)	1Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)
Total Real Estate	8,433,929,576	9.20	-1.63	-4.75	-7.32	5.68	5.22	7.68
Real Estate Blended Benchmark			-0.14	-2.36	-4.72	5.26	5.16	7.17
Private Real Estate	7,097,260,589	7.75	-4.39	-6.86	-10.89	5.00	4.37	7.40
Direct Real Estate	5,727,643,212	6.25	-5.13	-7.85	-12.96	4.11	3.94	6.98
NCREIF Property Index			-3.02	-4.35	-7.94	4.57	4.33	6.80
East Region (Private RE)	2,012,645,415	2.20	-3.12	-5.21	-8.86	2.94	1.18	2.76
NCREIF Property Index			-3.02	-4.35	-7.94	4.57	4.33	6.80
Midwest Region (Private RE)	898,501,821	0.98	-5.73	-7.02	-15.15	-1.71	0.46	5.02
NCREIF Property Index			-3.02	-4.35	-7.94	4.57	4.33	6.80
South Region (Private RE)	913,800,000	1.00	-1.11	0.63	0.41	12.80	10.93	12.52
NCREIF Property Index			-3.02	-4.35	-7.94	4.57	4.33	6.80
West Region (Private RE)	1,902,695,976	2.08	-8.68	-14.33	-21.33	4.16	5.42	10.14
NCREIF Property Index			-3.02	-4.35	-7.94	4.57	4.33	6.80
Commingled Funds Real Estate	1,369,617,377	1.49	-1.19	-2.53	-1.02	9.11	6.24	9.49
NCREIF Property Index			-3.02	-4.35	-7.94	4.57	4.33	6.80
Opportunity Fund (Private RE)	404,317,754	0.44	-3.20	-4.59	-8.41	10.69	7.54	10.18
NCREIF Property Index			-3.02	-4.35	-7.94	4.57	4.33	6.80
International (Private RE)	797,113,213	0.87	-0.02	-0.45	3.06	8.66	5.90	9.68
NCREIF Property Index			-3.02	-4.35	-7.94	4.57	4.33	6.80
Specialty Real Estate Funds (Private RE)	168,186,410	0.18	-2.22	-1.49	3.05	10.58	7.41	
NCREIF Property Index			-3.02	-4.35	-7.94	4.57	4.33	



Asset Allocation & Performance | As of December 31, 2023

	Asset Allocation & Performance As of December 31, 2023									
	Market	% of QTD	QTD	FYTD	1Yr	3 Yrs	5 Yrs	10 Yrs		
	Value (\$)	Portfolio	(%)	(%)	(%)	(%)	(%)	(%)		
Public Real Estate	1,336,668,987	1.46	16.02	7.91	14.60	7.55	7.58	7.80		
FTSE NAREIT Equity REIT Index			16.22	7.94	13.73	7.21	7.39	7.6		
REITs - Active (Public RE)	947,042,216	1.03	16.22	8.12	15.53					
FTSE NAREIT Equity REIT Index			16.22	7.94	13.73					
External REIT	389,626,771	0.43	15.52	7.38		-				
FTSE NAREIT Equity REIT Index			16.22	7.94						
CenterSquare Investment Management	156,734,319	0.17	16.40	7.98						
FTSE NAREIT Equity REIT Index			16.22	7.94						
Heitman	127,120,764	0.14	14.40	6.01						
FTSE NAREIT Equity REIT Index			16.22	7.94						
Principal Asset Management	105,771,688	0.12	15.58	8.17						
FTSE NAREIT Equity REIT Index			16.22	7.94						
otal Alternative Investments	18,702,971,460	20.41	0.42	2.58	5.44	13.26	12.22	10.9		
Alternative Investments Blended Benchmark			0.38	2.09	6.52					
Private Equity	9,516,460,356	10.39	-1.23	0.40	0.77	13.09	15.65	15.2		
Private Equity Benchmark			-0.60	0.99	3.67					
Domestic Private Equity	5,141,243,215	5.61	-0.64	2.33	6.89	15.03	17.22	16.4		
Private Equity Benchmark			-0.60	0.99	3.67					
Domestic Venture Capital	2,780,526,783	3.03	-2.29	-2.82	-11.39	11.65	14.60	13.6		
Private Equity Benchmark			-0.60	0.99	3.67					
Global Private Equity	1,556,953,294	1.70	-1.96	-0.74	5.23	11.51	13.24	14.1		
Private Equity Benchmark			-0.60	0.99	3.67					

MEKETA INVESTMENT GROUP Page 34 of 38



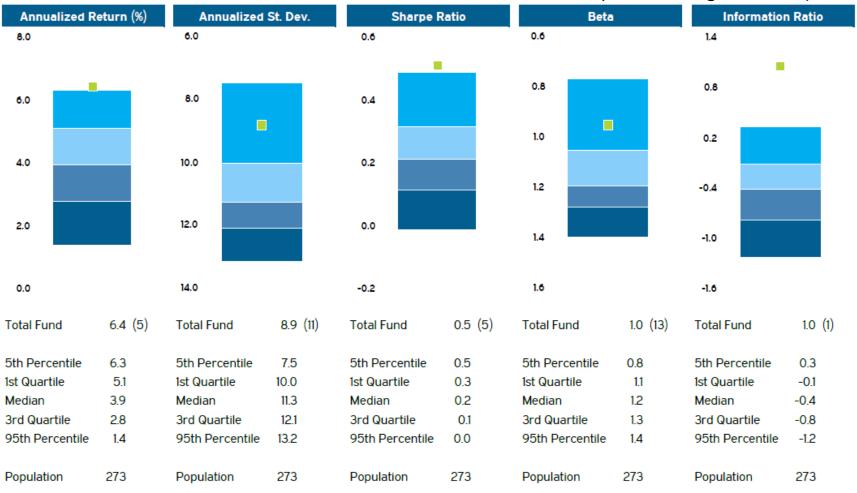
Asset Allocation & Performance | As of December 31, 2023

	Market Value (\$)	%of Portfolio	QTD (%)	FYTD (%)	1Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)
Opportunistic/Diversified	9,186,511,104	10.03	2.19	4.97	10.88	12.76	8.37	6.61
Opportunistic/Diversified Blended Benchmark			1.26	3.09	9.13			
Opportunistic	8,601,426,850	9.39	2.04	4.92	10.73	14.41	8.89	8.16
Opportunistic/Diversified Blended Benchmark			1.26	3.09	9.13			
Diversified	585,084,254	0.64	4.45	5.70	13.13	6.40	5.33	3.78
Opportunistic/Diversified Blended Benchmark			1.26	3.09	9.13			

MEKETA INVESTMENT GROUP Page 35 of 38



Universe Statistics | 3 Years Ending December 31, 2023



Gross returns are net of transaction costs and gross of management fees, except for alternative investments & real estate where the return is also net of all external investment management fees and costs, including carried interest and other fund expenses. Certain Meketa returns may differ from STRS due to rounding.

Universe is All Public DB Plans.

MEKETA INVESTMENT GROUP Page 36 of 38



MPT Stats By Group | As of December 31, 2023

			III I Out Dy Glou	P AS OI BECCITIBEL OI, EC			
		Risk Return Statistics					
		3 Yrs (%)	5 Yrs (%)				
	Total Fund	Total Fund Benchmark	Total Fund	Total Fund Benchmark			
RETURN SUMMARY STATISTI	cs						
Maximum Return	4.9	5.1	7.9	7.7			
Minimum Return	-5.3	-5.5	-7.7	-7.8			
Return	6.4	5.5	9.9	9.2			
Excess Return	4.5	3.7	8.1	7.5			
Excess Performance	0.9	0.0	0.6	0.0			
RISK SUMMARY STATISTICS							
Beta	1.0	1.0	1.0	1.0			
Up Capture	99.7	100.0	100.9	100.0			
Down Capture	92.2	100.0	95.9	100.0			
RISK/RETURN SUMMARY STA	TISTICS						
Standard Deviation	8.9	9.3	9.8	10.0			
Sortino Ratio	0.8	0.6	1.3	1.2			
Alpha	1.1	0.0	0.7	0.0			
Sharpe Ratio	0.5	0.4	0.8	0.7			
Excess Risk	8.9	9.2	9.9	10.0			
Tracking Error	0.8	0.0	0.7	0.0			
Information Ratio	1.0	-	0.9	-			
CORRELATION STATISTICS							
R-Squared	1.0	1.0	1.0	1.0			
Actual Correlation	1.0	1.0	1.0	1.0			

Gross returns are net or transaction costs and gross or management lees, except for alternative investments α real estate where the return is also net or all external investment management lees and costs, including carned interest and other fund expenses. Certain Meketa returns may differ from STRS due to rounding.



WE HAVE PREPARED THIS REPORT (THIS "REPORT") FOR THE SOLE BENEFIT OF THE INTENDED RECIPIENT (THE "RECIPIENT").

SIGNIFICANT EVENTS MAY OCCUR (OR HAVE OCCURRED) AFTER THE DATE OF THIS REPORT AND THAT IT IS NOT OUR FUNCTION OR RESPONSIBILITY TO UPDATE THIS REPORT. ANY OPINIONS OR RECOMMENDATIONS PRESENTED HEREIN REPRESENT OUR GOOD FAITH VIEWS AS OF THE DATE OF THIS REPORT AND ARE SUBJECT TO CHANGE AT ANY TIME. ALL INVESTMENTS INVOLVE RISK. THERE CAN BE NO GUARANTEE THAT THE STRATEGIES, TACTICS, AND METHODS DISCUSSED HERE WILL BE SUCCESSFUL.

INFORMATION USED TO PREPARE THIS REPORT WAS OBTAINED FROM INVESTMENT MANAGERS, CUSTODIANS, AND OTHER EXTERNAL SOURCES. WHILE WE HAVE EXERCISED REASONABLE CARE IN PREPARING THIS REPORT, WE CANNOT GUARANTEE THE ACCURACY OF ALL SOURCE INFORMATION CONTAINED HEREIN.

CERTAIN INFORMATION CONTAINED IN THIS REPORT MAY CONSTITUTE "FORWARD - LOOKING STATEMENTS," WHICH CAN BE IDENTIFIED BY THE USE OF TERMINOLOGY SUCH AS "MAY," "WILL," "SHOULD," "EXPECT," "AIM", "ANTICIPATE," "TARGET," "PROJECT," "ESTIMATE," "INTEND," "CONTINUE" OR "BELIEVE," OR THE NEGATIVES THEREOF OR OTHER VARIATIONS THEREON OR COMPARABLE TERMINOLOGY. ANY FORWARD-LOOKING STATEMENTS, FORECASTS, PROJECTIONS, VALUATIONS, OR RESULTS IN THIS PRESENTATION ARE BASED UPON CURRENT ASSUMPTIONS. CHANGES TO ANY ASSUMPTIONS MAY HAVE A MATERIAL IMPACT ON FORWARD - LOOKING STATEMENTS, FORECASTS, PROJECTIONS, VALUATIONS, OR RESULTS. ACTUAL RESULTS MAY THEREFORE BE MATERIALLY DIFFERENT FROM ANY FORECASTS, PROJECTIONS, VALUATIONS, OR RESULTS IN THIS PRESENTATION.

PERFORMANCE DATA CONTAINED HEREIN REPRESENT PAST PERFORMANCE. PAST PERFORMANCE IS NO GUARANTEE OF FUTURE RESULTS.

MEKETA INVESTMENT GROUP Page 38 of 38



- Matters requiring board action:
 - Review and approval of the Statement of Investment Objectives & Policy and Statement of Fund Governance
- Educational or scheduled updates and reviews requiring no action today:
 - Summary of Investment Activity Report, December 2023 and January 2024
 - Initial review of the Proxy Voting Policy
 - Proxy Voting Summary for six months ending Dec. 31, 2023
 - Meketa quarterly performance review as of Dec. 31, 2023
 - Semiannual derivatives exposure as of Dec. 31, 2023
 - Meketa comments
 - Review of December 2023 and January 2024 investment transactions
- Summary of requests

Semiannual Derivative Exposure as of Dec. 31, 2023



STRS Ohio Derivative Exposure

As of December 31, 2023

Derivatives have been an efficient and cost-effective tool for managing the total STRS Ohio assets. They are used to the limited extent as provided for by the *Statement of Investment Objectives and Policy*. The staff plans to continue the effective usage of derivatives.

				Policy Investment
Derivative Investment	De	erivative Position	% of Total	Maximum
Description		Exposure	Fund	(% of Total Fund)
		•		•
International				
MSCI EAFE Futures	\$	0	0.00%	
MSCI Emerging Futures	\$ \$	0	0.00%	
Equity Swaps	\$	813,998,420	0.89%	
External Managers	\$	17,001,591	0.02%	
Warrants & Rights	\$	21,207	0.00%	
Total International	\$	831,021,218	0.91%	10%
Domestic Equities				
Domestic Equity Swaps	\$	0	0.00%	
S&P 500 Index Futures	\$	94,954,000	0.10%	
Russell 2000 Index Futures	\$ \$ \$	11,159,965	0.01%	
Call Options (bought)*	\$	0	0.00%	
Put Options (sold)*	\$	0	0.00%	
Warrants & Rights	\$	0	0.00%	
Total Domestic Equities	\$	106,113,965	0.12%	10%
Real Estate	\$	0	0.00%	
Total Real Estate	\$	0	0.00%	1%
Fixed Income				
External Managers	\$	93,888,915	0.10%	
Total Fixed Income	\$	93,888,915	0.10%	5%
Alternative Investments				
Liquid Alt. – External Mgrs.	\$	13,864,117	0.02%	
Liquid Alt. – OTC Swaps	\$	30,773,272	0.03%	
Total Alternative Investments	\$	44,637,388	0.05%	10%
Total Derivative				
Position Exposure	Ş	1,075,661,487	1.17%	
TOTAL FUND	ş	91,630,549,529		
	-			

The absolute value of the option market value is used.

Footnote on hedging derivatives: Derivatives that reduce risk (hedge) are not included in the above totals. STRS Ohio has hedged \$13.2 billion of currency exposure through forward contracts. This amount essentially reflects the Investment Policy benchmark in which the neutral position for currencies is 30% hedged for developed markets. Within the opportunistic/diversified portfolio of Alternative Investments, STRS Ohio utilizes options & futures with a combined notional value of \$1.9 billion to hedge \$1.79 million of equity risk in the liquid alternatives theme.

Semiannual Derivative Exposure as of Dec. 31, 2023



STRS Ohio Derivative Exposure by Month

	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Policy
	2023	2023	2023	2023	2023	2023	Limits
International	0.92%	1.21%	1.18%	1.40%	0.90%	0.91%	10%
Domestic Equities	0.00%	0.00%	0.63%	0.80%	0.11%	0.12%	10%
Real Estate	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1%
Fixed Income	0.08%	0.09%	0.09%	0.08%	0.09%	0.10%	5%
Alternative Investments	0.05%	0.05%	0.05%	0.06%	0.05%	0.05%	10%
Total Fund	1.05%	1.35%	1.95%	2.34%	1.15%	1.18%	

Preview of Topics for the Annual Investment Seminar in March



- 2024 Meketa economic outlook and capital market review
- Review of the Asset-Liability study process
- Implementation and benchmarking
- Rebalancing
- Overview of alternative investments and quarterly performance



Matters requiring board action:

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Matters requiring board action:

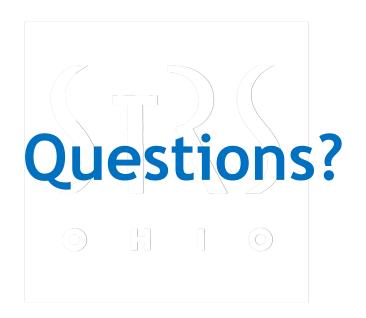
- Review and approval of the Statement of Investment Objectives & Policy and Statement of Fund Governance
- Educational or scheduled updates and reviews requiring no action today:
 - Summary of Investment Activity Report, December 2023 and January 2024
 - Initial review of the Proxy Voting Policy
 - Proxy Voting Summary for six months ending Dec. 31, 2023
 - Meketa quarterly performance review as of Dec. 31, 2023
 - Semiannual derivatives exposure as of Dec. 31, 2023
 - Meketa comments
 - Review of December 2023 and January 2024 investment transactions
- Summary of requests



Matters requiring board action:

- Review and approval of the Statement of Investment Objectives & Policy and Statement of Fund Governance
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