

BOARD OF RETIREMENT

December 12, 2023 1:30 p.m.

Boardroom

832 12th Street Suite 600 Modesto, CA 95354

AGENDA

The Board of Retirement welcomes you to its meetings, which are regularly held on the fourth Tuesday of each month. Your interest is encouraged and appreciated.

The StanCERA boardroom, is currently open to public access. Members of the public who wish to attend Board meetings may also do so by teleconference, by calling (669) 900-6833. The Meeting ID: 859 3221 9325

If you wish to make a public comment during the Public Comment section of the meeting, or if you wish to comment on a specific agenda item, please press *9 on your phone to alert the Chair that you wish to speak. As permitted by Gov. Code § 54954.3(b)(1), each public comment is limited to three minutes.

You may also submit public comments in writing. If you wish to make a general public comment or a comment on a specific agenda item in writing, please submit your comment via email or fax no later than 4:30 p.m. on the day before a Board meeting. Comments can be submitted via email at taaa@stancera.org or via fax at (209) 558-4976. If your comment pertains to a specific agenda item, please include the agenda item number in the subject line. As permitted by Gov. Code § 54954.3(b)(1), each public comment is limited to 400 words. Comments submitted in writing will be read aloud during the meeting.

CONSENT/ACTION ITEMS: Consent matters include routine administrative actions and are identified under the Consent Items heading. All other items are action items, "Action" means that the Board may dispose of any item by any action, including but not limited to the following acts: approve, disapprove, authorize, modify, defer, table, take no action, or receive and file.

BOARD AGENDAS & MINUTES: Board agendas, minutes and copies of items to be considered by the Board of Retirement are customarily posted on the Internet by Friday afternoon preceding a meeting at the following website: www.stancera.org.

NOTICE REGARDING NON-ENGLISH SPEAKERS: Board of Retirement meetings are conducted in English and translation to other languages is not provided. Please make arrangements for an interpreter if necessary.

In compliance with the Americans with Disabilities Act: If you require an accommodation, auxiliary aid, or service in order to participate in this meeting, please contact StanCERA at (209) 525-6393 as far in advance as possible but no later than 48 hours before the scheduled event.

- 1. Call Meeting to Order
- 2. Pledge of Allegiance
- 3. Roll Call
- 4. Announcements
- 5. Public Comment

6. Emergency Declaration

a. Emergency Declaration - AB 361

7. Consent Items

- a. Approval of October 24, 2023 Meeting Minutes View
- b. Application for Service Retirement(s)
 Government Code Sections 31499.14, 31670, 31662.2 & 31810
 See attachment for details View
- c. Application for Disability
 Government Code Section 31787 & 31724
 - 1. Mitchell, Bruce Service-Connected Death Effective 08-02-2023
 - 2. Velasco, Fernando Non-Service Connected Disability Effective 12-06-2023
- d. Investment Matrix View
- e. Private Market Commitment Notice1. Carlyle Renewable and Sustainable Energy Fund View
- f. Conference/Meeting Summary View
- g. StanCERA Board Member Committee Assignments View
- h. StanCERA Board Member Education Summary View
- i. StanCERA Board Member Meeting Calendar View

8. Closed Session

a. Pending Litigation
 Significant Exposure to Litigation
 One Case
 Stanislaus County Employees' Retirement Association
 832 12th Street, Suite 600 Modesto CA 95354
 Government Code Section 54956.9 (a)(d)(2)

9. Investment

- a. NEPC Investment Consultant October Flash Report View
- b. NEPC Quarter 3 Investment Report as of September 30, 2023 View
- c. NEPC Quarter 2 2023 Private Real Assets Report View
- d. Strategic Asset Allocation

Agenda Item <u>View</u> Attachment <u>View</u>

10. Administrative

a. Workiva Project Contract Update
Agenda Item <u>View</u> Attachment <u>View</u>

11. Standing Committee

a. Internal Governance Committee

2023 Annual Comprehensive Financial Report
Agenda Item <u>View</u> Attachment 1 <u>View</u> Attachment 2 <u>View</u>

12. Closed Session

a. Personnel Discussion
 Stanislaus County Employees' Retirement Association
 832 12th Street, Suite 600 Modesto CA 95354
 Government Code Section 54957 (b)(1)

13. Members' Forum (Information and Future Agenda Requests Only)

14. Adjournment



BOARD OF RETIREMENT

October 24, 2023 1:30 p.m.

Boardroom

832 12th Street Suite 600 Modesto, CA 95354

BOARD OF RETIREMENT MINUTES

- 1. Call Meeting to Order
- 2. Pledge of Allegiance
- 3. Roll Call
 Trustees Present
 Mandip Dhillon Chair
 Darin Gharat Vice Chair
 Donna Riley
 Samuel Sharpe
 Jeff Grover
 Michael Lynch

Michael Lynch Terry Withrow Rhonda Biesemeier

Trustees AbsentDelilah Vasquez

Others Present

Tom Stadelmaier – Executive Director
Stan Conwell – Retirement Investment Officer
Kellie Gomes – Business and Operations Manager
Brittany Smith-Atkins – Retirement Fiscal Manager
Fred Silva – General Legal Counsel
Alaine Taa – Executive Board Assistant
Jamie Gingerich – Member and Employer Services
Specialist
Daniel Hennessey- NEPC Investment Consultant
Rob Goldthorpe - NEPC Investment Consultant
(joined virtually)
Faraz Shooshani – VERUS Investment Consultant
Steve Hempler - VERUS Investment Consultant

4. Announcements

Tom Stadelmaier announced StanCERA's participation in the City of Ceres Health Benefit Fair and three Stanislaus County's Wellness Connect events. He thanked staff members Alaine Taa, Ema Arroyo, Donna Wood, Jamie Gingerich and Kellie Gomes for their work in planning and participating in these events. In addition to these events StanCERA has also done recent speaking engagements with public safety, RESCO, pre-retirement seminar and new employee orientations and plans to continue to be more involved with the member community. Tom also noted that he spoke with the Plan actuary Graham Schmidt at Cheiron and with no major surprises expected for this year, the plan is to present the Annual Valuation Report at one meeting, likely to happen in January. Finally, Tom noted a slight change in how the disability memos will be presented going forward. Memos will no longer include detailed medical information regarding the disability applicant. The memo will present a brief summary of staff recommendation for each applicant. More detailed information regarding each application can always be requested by the board including the opinion letter provided by our disability attorney Ted Cabral. Stan Conwell announced that staff has completed a private markets placement commitment Gridiron Capital Fund and that Board members can request additional information through Stan.

- 5. Public Comment NONE
- 6. Emergency Declaration NONE

a. Emergency Declaration - AB 361

7. Consent Items

- a. Approval of September 26, 2023 Meeting Minutes
- Applications for Service Retirement(s)
 Government Code Sections 31499.14, 31670, 31662.2 & 31810
- c. Applications for Disability

Government Code Section 31837

- 1. Ingalls, Ernest Stanislaus County Service-Connected
- 2. Winter, Andrew Stanislaus County Service-Connected Disability Retirement
- d. Investment Matrix
- e. Quarter 2 Private Market Program Report as of June 2023
- f. Investment Fee Summary and Value Added Reports as of June 2023
- g. Private Market Commitment Notice
 - 1. Gridiron Capital Fund V
- h. Conference/Meeting Summary

Motion was made by Trustee Gharat and seconded by Trustee Biesemeier to approve all consent items as presented.

Roll call Vote was as follows:

Trustee Dhillon YES
Trustee Gharat YES
Trustee Riley YES
Trustee Biesemeier YES
Trustee Grover YES
Trustee Withrow YES
Trustee Lynch YES

Motion passed unanimously

8. Investment

- a. NEPC Investment Consultant September Flash Report
- b. Invesco Liquidation and Rebalance Plan

Motion was made by Trustee Gharat and seconded by Trustee Riley to approve to fully liquidate the Invesco Global Targeted Returns fund and execute the rebalance plan as presented.

Roll call Vote was as follows:

Trustee Dhillon YES
Trustee Gharat YES
Trustee Riley YES

Trustee Biesemeier	YES
Trustee Grover	YES
Trustee Withrow	YES
Trustee Lynch	YES

Motion passed unanimously

- c. Asset Liability Study
- d. Verus Private Market Education and Performance Update

9. Administrative

- a. Strategic Plan
- b. 2023 SACRS Fall Business Meeting Proxy and Proxy Directives

Motion was made by Trustee Riley and seconded by Trustee Biesemeier to support Darin Gharat as the primary proxy and Jeff Grover as the alternate proxy to vote on behalf of the Board of Retirement for the SACRS Business meeting, November 10, 2023.

Roll call Vote was as follows:

Trustee Dhillon	YES
Trustee Gharat	YES
Trustee Riley	YES
Trustee Biesemeier	YES
Trustee Grover	YES
Trustee Withrow	YES
Trustee Lynch	YES

Motion passed unanimously

Motion was made by Trustee Gharat and seconded by Trustee Lynch to approve to support action items for SACRS Business meeting, November 10, 2023 as presented.

Roll call Vote was as follows:

YES
YES

Motion passed unanimously

Motion was made by Trustee Gharat and seconded by Trustee Riley to approve to enter into Closed Session.

Roll call Vote was as follows:

Trustee Dhillon YES

Trustee Gharat YES
Trustee Riley YES
Trustee Biesemeier YES
Trustee Grover YES
Trustee Withrow YES
Trustee Lynch YES

Motion passed unanimously

Staff excused at 4:06 p.m.

10. Closed Session

Personnel Discussion
 Stanislaus County Employees' Retirement Association
 832 12th Street STE 600 Modesto CA 95354
 Government Code Section 54957(b) (1)

Staff returned at 4:24 p.m.

Motion was made by Trustee Gharat and seconded by Trustee Biesemeier to approve to enter into Open Session.

Roll call Vote was as follows:

Trustee Dhillon YES
Trustee Gharat YES
Trustee Riley YES
Trustee Biesemeier YES
Trustee Grover YES
Trustee Withrow YES
Trustee Lynch YES

Motion passed unanimously

No reportable action from Closed Session

- 11. Members' Forum (Information and Future Agenda Requests Only) NONE
- 12. Adjournment Meeting adjourned at 4:26 p.m.

Respectfully submitted,

APPROVED AS TO FORM

By Thomas Stadelmaier, Executive Director

Fred A. Silva, General Legal Counsel

StanCERA APPLICATIONS FOR SERVICE RETIREMENT(S) GOVERNMENT CODE SECTIONS 31499.14, 31670, 31662.2. 318/10 & 31700

12/12/2023 Item 7.b

- 1. Baker, Brian –Stanislaus County Effective 11/17/2023
- 2. Canela, Michelle Stanislaus Superior Court Effective 12/16/2023
- 3. Contreras de Orozco, Gabriela Stanislaus County Effective 12/02/2023
- 4. Curtis, Victor Stanislaus County Effective 12/01/2023
- 5. Dillon, Denise Stanislaus County Effective 12/16/2023
- 6. Garcia, Eugene Stanislaus County Effective 12/30/2023
- 7. Gomez, Salvador Stanislaus County Effective 10/28/2023
- 8. Grover, Jeffrey Stanislaus County Effective 11/01/2023
- 9. Hawkins, Deborah Stanislaus County Effective 11/07/2023
- 10. Linares, Monica Stanislaus County Effective 11/04/2023
- 11. Lopez, Adolph Stanislaus County Effective 11/18/2023
- 12. Martinez, Chrisanto City of Ceres Effective 11/04/2023
- 13. Myetich, Debra Stanislaus County Effective 10/20/2023
- 14. Nguyen, Thanh-Thuy StanCOG– Effective 12/09/2023
- 15. Pasillas, Maria Stanislaus County Effective 11/18/2023
- 16. Ramirez, Irene Stanislaus County Effective 12/16/2023
- 17. Ridenour Jr., James Stanislaus County Effective 12/27/2023
- 18. Roberts, Deborah Stanislaus County Effective 11/04/2023
- 19. Schwandt, Donnie Stanislaus County Effective 11/04/2023
- 20. Shields, Peter Stanislaus County Effective 11/04/2023
- 21. Thompson, David Stanislaus County Effective 12/02/2023
- 22. Thompson, Debra Stanislaus County Effective 12/30/2023
- 23. Voyles, Bryan Stanislaus County Effective 11/10/2023
- 24. Wirtz, Daniel Stanislaus County Effective 12/02/2023

Stanislaus County Employees' Retirement Association

December 12, 2023

Retirement Board Agenda Item

TO: Retirement Board

FROM: Stan Conwell, Retirement Investment Officer

I. SUBJECT: Investment Matrix

II. ITEM NUMBER: 7.d

III. ITEM TYPE: Information Only

IV. STAFF RECOMMENDATION: N/A

V. ANALYSIS:

a) Investment Program Activities:

Staff worked quickly to execute the rebalance plan as presented at the October meeting and the rebalance was completed successfully. As you may recall the rebalance was necessitated when Invesco announced they will be closing the GTR fund in which StanCERA was invested. NEPC will be conducting a search for a suitable replacement and the Board will need to approve a new manager following finalist presentations at a future meeting. Staff also worked closely with NEPC on reviewing and refining potential strategic asset allocation mixes. Staff also continued reviewing private market funds and committed to the Carlyle Renewable and Sustainable Energy Fund II, a new value add infrastructure fund.

b) Money Transfer Report:

October & November 2023: Capital Calls & Rebalance Activity

From			То			
Manager	Asset	Amount	Manager	Asset	Amount	
Wanager	Class		Mariago	Class	Amount	
Northern	Public		Genstar	Private		
Trust Russell	Equity	-\$2,657,626.20	Capital	Equity	\$2,657,626.20	
3000 Fund	Equity		Partners X	Lquity		
BlackRock	Public		Insight	Short-		
Russell 1000	Equity	-\$25,000,000.00	Investment	term	\$25,000,000.00	
Growth	Lquity		iiivesiiileiii	Bonds		

	1		1		Г
NT STIF Fund	Cash	-\$11,771,886.00	Insight Investment	Short- term Bonds	\$11,771,886.00
Northern Trust Russell 3000 Fund	Public Equity	-\$2,077,900.00	CD&R Fund XI	Private Equity	\$2,077,900.00
NT STIF Fund	Cash	-\$152,808.32	Great Hill Equity Partners Fund VIII	Private Equity	\$152,808.32
Invesco GTR Fund	Liquid Absolute Return	-\$12,500,000.00	Graham Proprietary Matrix Fund	Liquid Absolute Return	\$12,500,000.00
Invesco GTR Fund	Liquid Absolute Return	-\$12,862,372.46	NT STIF Fund	Cash	\$12,862,372.46
NT STIF Fund	Cash	-\$1,822,908.79	Audax Fund VII	Private Equity	\$1,822,908.79
NT STIF Fund	Cash	-\$234,126.67	Gryphon Partners VI	Private Equity	\$234,126.67
Invesco GTR Fund	Liquid Absolute Return	-\$2,818,050.47	NT STIF Fund	Cash	\$2,818,050.47
BlackRock US Real Estate Fund	Public Equity	-\$4,046,380.24	NT STIF Fund	Cash	\$4,046,380.24
NT STIF Fund	Cash	-\$5,000,000.00	TA Realty Value Fund XIII	Private Real Estate	\$5,000,000.00
NT STIF Fund	Cash	-\$1,101,085.34	Palistar Comm Infra Fund II	Private Infrastru cture	\$1,101,085.34
NT Russell 3000 Index Fund	Public Equity	-\$4,360,412.00	Gridiron Capital Fund V	Private Equity	\$4,360,412.00
NT STIF Fund	Cash	-\$258,261.00	Grandview II, LP	Private Real Estate	\$258,261.00

c) Manager Meetings:

Dodge & Cox

Staff arranged an update call with Dodge & Cox to review the portfolio and discuss any recent firm-level changes. The call also served as an opportunity to introduce the strategy to newer staff members. StanCERA is invested in the Dodge & Cox Stock fund which takes a value investing approach to build a portfolio of high-quality companies that trade at values that do not reflect their long-term ability to produce profits. Dodge & Cox is an employee-owned, independent, and stable firm. There were no significant team changes or committee changes since the last update call. A good portion of the meeting was spent detailing the investment process as well as reviewing the portfolio structure and performance attribution. The Stock fund has continued to perform well against the Russell 1000 Value benchmark.

White Oak

Staff met with a Managing director and a portfolio manager for an update on the fund. The White Oak fund is part of the legacy private credit program with an initial commitment date in 2013. The fund primarily made term and asset back loans to unsponsored middle market companies. The fund is currently at the tail end of its term and is focused on maximizing the returns of the remaining investments. The primary focus of discussion was on the status of the remaining investments and the timing of distributions. While the fund has distributed about 78% of contributions to date, the pace of realizations has slowed recently, but appears to be picking back up.

d) Conferences and Trainings:

SACRS Fall Conference 2023

Staff attended the SACRS Fall Conference held November 7-10, 2023 in Rancho Mirage, CA. The agenda covered a wide variety of topics relevant to public pension administration. Some noteworthy sessions included a panel of Chief Investment Officers from outside California to discuss different investment concepts and innovative approaches to managing institutional portfolios. Another session covered the energy transition including some interesting insights into the geopolitical challenges and supply chain constraints of mining and processing raw materials for some renewable energy projects. The SACRS conference also provides excellent networking opportunities including a dedicated breakout sessions tailored to the specific role of attendees.

VI. RISK: None

VII. STRATEGIC PLAN: N/A

VIII. ADMINISTRATIVE BUDGET IMPACT: None

Stanislaus County Employees' Retirement Association

December 12, 2023

Retirement Board Agenda Item

TO: Retirement Board

FROM: Stan Conwell, Retirement Investment Officer

I. SUBJECT: Private Markets Commitment Notice

II. ITEM NUMBER: 7.e.1

III. ITEM TYPE: Information Only

IV. STAFF RECOMMENDATION: N/A

V. Executive Summary:

On November 28, 2023 StanCERA committed \$20 million to the Carlyle Renewable and Sustainable Energy Fund II (RSEF II). Carlyle is a large global investment firm with \$382 billion in AUM and over 2,200 employees primarily focused on private asset classes. RSEF II is Carlyle's dedicated renewable and sustainable energy fund specializing in the renewables and energy transition sectors. The fund will target equity control positions in middle market assets that are expected to benefit from the global energy transition and from a hands-on value creation investment process. The investment team has sufficient depth to transact across all segments of the renewable energy market and are expected to target opportunities with less competition that present attractive risk and return profiles. The fund will invest primarily in the US and Western Europe. In addition to the dedicated team of over 40 investment professionals, the fund will utilize resources from the broader Carlyle platform in executing their value creation investment thesis. StanCERA was able to secure a fee reduction through the aggregation of commitments with other NEPC clients.

StanCERA has a 7.5% target allocation to the infrastructure asset class. RSEF II is a closed-end non-core infrastructure fund and will be allocated to the infrastructure asset class. The commitment to RSEF II is in line with the real assets pacing plan and in compliance with StanCERA's Private Markets Investment Policy Statement. For each private market investment, several due diligence reports, including a comprehensive executive summary, are completed by the investment consultant and staff. These reports contain confidential and proprietary information and are available to Trustees upon request.

VI. RISK: None

VII. STRATEGIC PLAN: N/A

VIII. ADMINISTRATIVE BUDGET IMPACT: NONE



1. Attendee Name: Darin Gharat

2. Event Name: SACRS Fall Conference

3. Event Date: November 7-10, 2023

4.

5. Event Location: Omni Rancho Los Palmas Rancho Mirage, CA

- 6. Describe what was good about the event: The ability to network with one's peers in other 37 Act Systems. The ability to attend training and learn about up to date opportunities in the investment world. I really enjoyed the presentation from the CEO of Quantum Capital about the current state of Global Energy. This was one of the best presentations I have attended at a SACRS Conference in a very long time.
- 7. Would you recommend this event to other trustees/staff: Yes
- 8. Number of Education Credits:



1. Attendee Name: Alaine Taa

2. Event Name: CALAPRS

3. Event Date: November 1-3, 2023

4.

5. Event Location: Burbank, CA

- 6. Describe what was good about the event: This event covered topics ranging from retirement benefits, investment and actuarial information, and retirement board meetings. The presenters were engaging and kept the audience interested and participating. These topics along with the mix of our counterparts from other retirement systems was a good blend of learning and networking.
- 7. Would you recommend this event to other trustees/staff: Yes. This conference touches on a lot of the main points of a retirement office. It gave an overview of how a retirement works and that information is beneficial to anyone who wants to learn about retirement in local government.
- 8. Number of Education Credits: N/A



1. Attendee Name: Alaine Taa

2. Event Name: 2023 Board Secretary/Clerk Conference

3. Event Date: November 6-8, 2023

4.

5. Event Location: Seaside, CA

- **6. Describe what was good about the event:** This event presented many topics on board meetings. They customized the event to cater to first time attendees, and to advanced attendees. Sessions offered were: Board Clerk Foundations, Staying in compliance, training in the California Records act, best practices for board meetings, etc. The presenters allowed the audience to ask questions and even stayed after the presentation to answer questions 1 on 1. Along with the presentations, there were vendors outside the sessions that spoke to attendees offering products and services.
- 7. Would you recommend this event to other trustees/staff: Yes. Being a new Clerk of the Board I found all the information that was offered useful and I will look back on the information to help me succeed in this position. It was good to see people in my role teach others how to thrive in their job and stay in compliance.
- 8. Number of Education Credits: N/A



1. Attendee Name: Ema Arroyo

2. Event Name: CALAPRS Intermediate Course

3. Event Date: November 1st- November 3rd

4. Event Location: Burbank, CA

5. Describe what was good about the event:

The CALAPRS intermediate course was good because it talked about a wide variety of items. We got to learn about Retirement Benefits, hear about board actions from a plan administrator. We learned from Daryn Miller who did the investment presentation. Legal closed session and actuarial presentation from Anne Harper, we got to see what all goes in an actuarial report and what things might affect it. Also learned about cyber security and what actions we all take to make sure staff is trained properly. I enjoyed all the speakers and enjoyed networking and hearing from other systems.

6. Would you recommend this event to other trustees/staff:

Yes, I would recommend this event. The presenters were very knowledgeable and entertaining. Every topic was well explained. Not only did it cover retirement benefits, but covered a wide variety of topics and got to experience the back end of how things work.

7. Number of Education Credits: N/A



1. Attendee Name: Jeff Grover

2. Event Name: SACRS Fall Conference

3. Event Date: November 7-11, 2023

4.

5. Event Location: Rancho Mirage, CA

6. Describe what was good about the event:

One speaker in particular was outstanding: Wil Vanloh from Quantum Energy Partners His topic was the current conditions of all forms of energy worldwide and the global challenges that energy is facing. StanCERA has a digital copy that can be sent to anyone that is interested.

I strongly recommend listening to this presentation.

7. Would you recommend this event to other trustees/staff:

Yes, but I've noticed previously that topics don't change much if attending twice a year.

8. Number of Education Credits:



1. Attendee Name: Tom Stadelmaier

2. Event Name: SACRS

3. **Event Date**: November 7-10, 2023

4. **Event Location**: Rancho Mirage

5. Describe what was good about the event:

The event was very well organized and offered some great speakers and access to investment managers, service providers, trustees and colleagues from other systems.

6. Would you recommend this event to other trustees/staff?

Yes. The ability to network with colleagues, providers and trustees was very valuable and generated many ideas for relationship building, learning, opportunities and system improvements. There were also some very good sessions with other Plan Administrators and speakers providing some of the latest information on relevant topics including investment philosophy, energy transition and cyber-security.

7. Number of Education Credits: N/A

StanCERA Committee Assignments

<u>Internal Governance Committee - Standing Committee</u>

This committee shall consist of three (3) Retirement Board members. At least one of the Retirement Board members of the committee shall have sufficient background in accounting, financial or managerial matters to understand, relate to and communicate accounting and organizational matters especially as they relate to audit reports. This committee shall have the responsibility for oversight of all financial audits (both external and internal), compliance audits, Bylaw revisions, Policy revisions, Retirement Board member education and training (including ethics) and other internal governance matters.

2024

- 1. Mandip Dhillon
- 2. Delilah Vasquez
- 3. Samuel Sharpe
- 4 Staff as needed

<u>Due Diligence Committee - Standing</u> Committee

This committee may consist of the Vice-Chair as Chair, one (1) other Board member the Executive Director, the Investment Officer and one (1) staff member appointed by the Executive Director (or a designee of the Executive Director), to act as the recorder. This committee shall insure that Due Diligence visits are carried out with Investment managers and other vendor business. These are reviewed on a schedule as determined by the Bylaws and the committee.

2024

- 1. Chair, Mike Lynch
- 2. Board Member, Mandip Dhillon
- 3. Executive Director. Tom Stadelmaier
- 4. Investment Officer, Stan Conwell
- 5. Executive Assistant, Alaine Taa

<u>Performance Review and Compensation</u> <u>Committee (PRCC). Standing Committee</u>

This committee shall consist of current Chair, past Chair, and current Vice Chair. As needed, the PRCC will meet to discuss the performance and compensation of the position of Executive Director.

Areas of Responsibility:

Assessment of the performance and compensation recommendation for the positions of Executive Director

2024

- 1. Darin Gharat
- 2. Mike Lynch
- 3. Mandip Dhillon
- 4. Staff as needed

<u>Strategic Planning Objectives Committee -</u> Standing Committees

This Committee shall consist of no less than two (2) Retirement Board members. The committee may request input from administrative staff and attendance for staff at its meetings as the Committee so desires. The committee shall oversee and review staff reports related to the study and recommendations of Retirement Board approved strategic planning objectives. The committee shall have authority to survey, research. request actuarial and other studies as it deems necessary. The committee shall only make "final" reports to the Retirement Board or recommendations to the Retirement Board that require the Board's action. This committee meets at least once every three (3) years, however, may not always have Board members assigned due to the cyclical nature of the needs required of this Committee.

2024

- 1. Rhonda Biesemeier
- 2. Joshua Clayton

StanCERA Trustee Education Report 2021-2023

	3-Year			
	Rolling Total	2021 Total	2022 Total	2023 Total
Board Member	Education Credits	Education Credits	Education Credits	Education Credits
Mandip Dhillon	84	64	16	4
Donna Riley Ex Offico	68	32	16	20
Darin Gharat	70	50	0	20
Mike Lynch	35	16	0	19
Joshua Clayton	34	0	30	4
Terry Withrow	8	0	4	4
Rhonda Biesemeier	193.50	87	76.5	30
Jeff Grover	60	40	0	20
Delilah Vasquez	18	0	0	18
Samuel Sharpe	2	0	0	2

StanCERA

Board Meetings are held every 4th Tuesday at 1:30p.m.

*Exceptions: There will be no July or November Board Meeting. December's Board Meeting will be moved to the 2nd Tuesday, December 3rd due to the Holiday.

2024

January						
S	M	Т	W	Т	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

February							
S	M	Т	W	Т	F	S	
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4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29			

March							
S	M	Т	W	Т	F	S	
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3	4	5	6	7	8	9	
10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
24	25	26	27	28	29	30	
31							

	April					
S	M	Т	W	Т	F	S
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7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

May						
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12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

June							
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9	10	11	12	13	14	15	
16	17	18	19	20	21	22	
23	24	25	26	27	28	29	
30							

	July												
S	M	T	W	T	F	S							
	1	2	3	4	5	6							
7	8	9	10	11	12	13							
14	15	16	17	18	19	20							
21	22	23	24	25	26	27							
28	29	30	31										

	August												
S	M	Т	W	T	F	S							
				1	2	3							
4	5	6	7	8	9	10							
11	12	13	14	15	16	17							
18	19	20	21	22	23	24							
25	26	27	28	29	30	31							

	September											
S	M	T	W	Т	F	S						
1	2	3	4	5	6	7						
8	9	10	11	12	13	14						
15	16	17	18	19	20	21						
22	23	24	25	26	27	28						
29	30											

		Oc	tok	er		
S	M	T	W	Т	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

November											
S	M	Т	W	Т	F	S					
					1	2					
3	4	5	6	7	8	9					
10	11	12	13	14	15	16					
17	18	19	20	21	22	23					
24	25	26	27	28	29	30					

* December											
S	M	Т	W	Т	F	S					
1	2	3	4	5	6	7					
8	9	10	11	12	13	14					
15	16	17	18	19	20	21					
22	23	24	25	26	27	28					
29	30	31									





MONTHLY PERFORMANCE REPORT

STANISLAUS COUNTY EMPLOYEES' RETIREMENT ASSOCIATION



OCTOBER 31, 2023

Dan Hennessy, CFA, CAIA, Senior Consultant Sam Austin, Partner John Tolar, Consulting Analyst

CALENDAR YEAR INDEX PERFORMANCE

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Oct	YTD
S&P 500	32.4%	13.7%	1.4%	12.0%	21.8%	-4.4%	31.5%	18.4%	28.7%	-18.1%	-2.1%	10.7%
Russell 1000	33.1%	13.2%	0.9%	12.1%	21.7%	-4.8%	31.4%	21.0%	26.5%	-19.1%	-2.4%	10.3%
Russell 2000	38.8%	4.9%	-4.4%	21.3%	14.6%	-11.0%	25.5%	20.0%	14.8%	-20.4%	-6.8%	-4.5%
Russell 2500	36.8%	7.1%	-2.9%	17.6%	16.8%	-10.0%	27.8%	20.0%	18.2%	-18.4%	-6.1%	-2.7%
MSCI EAFE	22.8%	-4.9%	-0.8%	1.0%	25.0%	-13.8%	22.0%	7.8%	11.3%	-14.5%	-4.1%	2.7%
MSCI EM	-2.6%	-2.2%	-14.9%	11.2%	37.3%	-14.6%	18.4%	18.3%	-2.5%	-20.1%	-3.9%	-2.1%
MSCI ACWI	22.8%	4.2%	-2.4%	7.9%	24.0%	-9.4%	26.6%	16.3%	18.5%	-18.4%	-3.0%	6.7%
Private Equity	12.6%	22.3%	14.6%	10.4%	10.3%	21.0%	13.1%	17.2%	45.0%	-9.3%	-	2.2%
BBG TIPS	-8.6%	3.6%	-1.4%	4.7%	3.0%	-1.3%	8.4%	11.0%	6.0%	-11.8%	-0.7%	-1.5%
BBG Municipal	-2.6%	9.1%	3.3%	0.2%	5.4%	1.3%	7.5%	5.2%	1.5%	-8.5%	-0.9%	-2.2%
BBG Muni High Yield	-5.5%	13.8%	1.8%	3.0%	9.7%	4.8%	10.7%	4.9%	7.8%	-13.1%	-1.6%	-1.6%
BBG US Corporate HY	7.4%	2.5%	-4.5%	17.1%	7.5%	-2.1%	14.3%	7.1%	5.3%	-11.2%	-1.2%	4.6%
BBG US Agg Bond	-2.0%	6.0%	0.5%	2.6%	3.5%	0.0%	8.7%	7.5%	-1.5%	-13.0%	-1.6%	-2.8%
BBG Global Agg	-2.6%	0.6%	-3.2%	2.1%	7.4%	-1.2%	6.8%	9.2%	-4.7%	-16.2%	-1.2%	-3.4%
BBG Long Treasuries	-12.7%	25.1%	-1.2%	1.3%	8.5%	-1.8%	14.8%	17.7%	-4.6%	-29.3%	-4.9%	-13.1%
BBG US Long Credit	-6.6%	16.4%	-4.6%	10.2%	12.2%	-6.8%	23.4%	13.3%	-1.2%	-25.3%	-4.1%	-6.6%
BBG US STRIPS 20+ Yr	-21.0%	46.4%	-3.7%	1.4%	13.7%	-4.1%	20.9%	24.0%	-5.2%	-39.6%	-8.6%	-22.3%
JPM GBI-EM Global Div	-9.0%	-5.7%	-14.9%	9.9%	15.2%	-6.2%	13.5%	2.7%	-8.7%	-11.7%	-0.5%	3.7%
JPM EMBI Glob Div	-5.3%	7.4%	1.2%	10.2%	10.3%	-4.3%	15.0%	5.3%	-1.8%	-17.8%	-1.4%	0.4%
CS Hedge Fund	9.7%	4.1%	-0.7%	1.2%	7.1%	-3.2%	9.3%	6.4%	8.2%	1.1%	-	3.7%
BBG Commodity	-9.5%	-17.0%	-24.7%	11.8%	1.7%	-11.2%	7.7%	-3.1%	27.1%	16.1%	0.3%	-3.2%
Alerian Midstream	-	16.4%	-37.3%	33.8%	-2.4%	-13.3%	24.0%	-23.4%	38.4%	21.5%	-0.3%	6.8%
FTSE NAREIT Equity REITs	2.5%	30.1%	3.2%	8.5%	5.2%	-4.6%	26.0%	-8.0%	43.2%	-24.4%	-4.4%	-6.4%



Stanislaus County ERA October 31, 2023

ASSET ALLOCATION VS. POLICY



	Current (\$)	Current (%)	Policy (%)	Differences* (%)	Policy Range (%)	Within Range
Large Cap Equity	416,503,653	16.3	16.0	0.3	12.0 - 20.0	Yes
Small Cap Equity	98,918,445	3.9	4.0	-0.1	0.0 - 7.0	Yes
International Equity	476,392,277	18.6	20.0	-1.4	14.0 - 26.0	Yes
Intermediate	215,841,496	8.4	7.0	1.4	4.0 - 10.0	Yes
Treasury	133,354,504	5.2	6.0	-0.8	4.0 - 8.0	Yes
Infrastructure	196,306,225	7.7	7.5	0.2	0.0 - 12.0	Yes
■ Absolute Return	76,308,468	3.0	3.0	0.0	0.0 - 5.0	Yes
■ Private Equity	148,934,997	5.8	5.0	0.8	0.0 - 8.0	Yes
Risk Parity	211,225,964	8.2	10.0	-1.8	6.0 - 14.0	Yes
■ Private Credit	227,273,249	8.9	8.0	0.9	0.0 - 10.0	Yes
Non-Core Real Estate	115,047,194	4.5	6.0	-1.5	0.0 - 10.0	Yes
Real Estate - Core	202,001,555	7.9	6.5	1.4	0.0 - 10.0	Yes
■ Cash	44,847,874	1.7	1.0	0.7	0.0 - 4.0	Yes
Total	2,562,955,900	100.0	100.0	0.0		

^{*}Difference between Policy and Current Allocation



TOTAL FUND PERFORMANCE DETAIL

	Allocat	tion					Perfori	mance (%	5)		
	Market	% of	1 Mo	YTD	1 Yr	3 Yrs	5 Yrs	7 Yrs	10 Yrs	Inception	Inception
	Value (\$)	Portfolio	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	Date
Total Fund	2,562,955,900	100.0	-1.8	3.1	5.5	5.8	6.0	6.5	5.9	8.4	Jan-95
Policy Index			-1.9	3.7	6.3	5.4	6.2	6.5	6.1	7.6	
Allocation Index			-1.9	2.7	5.0	4.4					
Liquidity Sub-Portfolio	260,689,370	10.2	0.0	2.3	4.3	-0.3	2.7	2.0		1.7	Aug-14
StanCERA Liquidity Blended BM			-0.3	0.7	2.5	-2.0	1.5	1.2		1.2	
Cash	44,847,874	1.7	0.5	4.9	5.8	3.5	2.7	2.3		1.9	Aug-14
FTSE 1 Month T-Bill			0.5	4.2	4.8	1.9	1.7	1.6		1.2	
Cashflow-Matched Bonds	215,841,496	8.4	-0.1	1.9	3.9	-1.2	2.4			1.9	Jul-17
Blmbg. Intermed. U.S. Government/Credit			-0.5	0.2	2.2	-3.0	1.0			0.7	
Insight	215,841,496	8.4	-0.1	1.9	3.9	-1.2	2.4			1.9	Jul-17
Blmbg. Intermed. U.S. Government/Credit			-0.5	0.2	2.2	-3.0	1.0			0.7	
Growth Sub-Portfolio	1,881,377,594	73.4	-2.1	4.4	7.5	8.9	7.8	8.5	7.4	7.7	Jan-04
StanCERA Growth Blended BM			-2.1	4.7	7.1	8.6	8.3	8.7			
US Equities	515,422,098	20.1	-3.1	8.8	7.8	11.3	10.0	11.2	9.8	9.3	Jan-04
Russell 3000 Index			-2.7	9.4	8.4	9.2	10.2	11.6	10.5	9.0	
US Large Equity	416,503,653	16.3	-2.5	10.9	10.1	10.6	11.0	12.2	11.0	12.1	Jan-95
Russell 1000 Index			-2.4	10.3	9.5	9.5	10.7	11.9	10.9	10.1	
BlackRock Russell 1000 Growth	197,960,057	7.7	-1.4	23.2	18.9	8.7	14.2	15.8	13.8	15.1	Aug-10
Russell 1000 Growth Index			-1.4	23.2	19.0	8.7	14.2	15.8	13.8	15.1	
BlackRock Russell 1000 Value	107,338,211	4.2	-3.5	-1.8	0.1	10.2	6.7	7.7	7.7	10.4	Aug-09
Russell 1000 Value Index			-3.5	-1.8	0.1	10.2	6.6	7.6	7.6	10.3	
Dodge & Cox-Equity	111,205,385	4.3	-3.5	3.3	4.8	15.5	8.7	10.4	9.6	11.4	Jan-95
Russell 1000 Value Index			-3.5	-1.8	0.1	10.2	6.6	7.6	7.6	9.3	
US Small Equity	98,918,445	3.9	-5.5	0.7	-1.3	14.6	6.5	7.7	6.1	10.9	Jan-09
Russell 2000 Index			-6.8	-4.5	-8.6	3.9	3.3	6.3	5.6	9.9	
Attucks Small Cap	98,918,445	3.9	-5.5	0.7	-1.3	14.6	6.5	8.0	6.8	11.0	Jan-09
Russell 2000 Value Index			-6.0	-6.5	-9.9	9.7	3.3	5.5	5.2	8.9	
International Equity	476,392,277	18.6	-4.2	3.7	16.4	6.5	4.9	5.3	3.5	5.7	Oct-04
MSCI AC World ex USA (Net)			-4.1	1.0	12.1	3.0	3.5	4.3	2.5	5.0	
LSV Int'l Large Cap Value	258,977,441	10.1	-4.2	6.7	19.9	10.6	5.1	5.5	3.6	5.6	Oct-04
MSCI AC World ex USA Value (Net)			-4.4	3.5	15.1	8.9	2.8	3.8	1.7	4.4	
Fidelity Int'l Growth	217,414,836	8.5	-4.3	0.5	12.4	2.4	4.5	4.9	3.1	3.4	May-06
MSCI AC World ex USA Growth (Net)			-3.9	-1.4	9.2	-2.6	3.8	4.6	3.2	3.3	

⁻ Cash Composite includes the Transaction Account Value.



TOTAL FUND PERFORMANCE DETAIL

	Allocat	ion					Perfori	mance (%)		
	Market	% of	1 Mo	YTD	1 Yr	3 Yrs	5 Yrs	7 Yrs	10 Yrs	Inception	Inception
	Value (\$)	Portfolio	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	Date
Core Real Estate	202,001,555	7.9	-0.1	0.3	-0.8	7.8	5.7	5.5	6.4	3.1	Apr-08
NCREIF Property Index			0.0	-5.1	-8.4	6.0	5.3	5.8	7.4	5.8	
Prime Property Fund	99,034,302	3.9	0.0	-3.7	-7.2	8.0	6.4	7.0		7.3	Oct-15
NCREIF ODCE			0.0	-7.6	-12.1	7.1	5.7	6.4		6.8	
BlackRock Real Estate Securities	3,947,255	0.2	-4.5	-6.6	-6.4	5.3	1.0	1.7	4.3	4.7	Oct-12
Dow Jones U.S. Select RESI			-4.5	-6.4	-6.2	5.4	1.1	1.8	4.4	4.7	
PGIM Real Estate US Debt Fund	99,019,998	3.9	0.0	4.9	6.6	5.6	5.5			5.3	Sep-18
Blmbg. U.S. Investment Grade: CMBS Index			-0.9	-0.8	1.8	-3.8	0.8			0.6	
Value-Add Real Estate	115,047,194	4.5	0.0	-7.4	-7.6	7.6	8.4	9.5		9.5	Aug-14
NCREIF Property Index +2%			0.2	-3.5	-6.6	8.2	7.4	7.9		9.2	
American Strategic Value Realty	83,095,772	3.2	0.0	-6.3	-9.6	6.6	6.3	7.4		8.9	Jan-15
NCREIF Property Index			0.0	-5.1	-8.4	6.0	5.3	5.8		6.7	
Greenfield Acquisition Partners VII	1,053,770	0.0	0.0	10.5	-1.7	5.9	7.4	9.2		9.3	Aug-14
NCREIF-ODCE +1%			0.1	-6.8	-11.3	8.2	6.7	7.4		8.9	
Grandview Property Partners I	15,220,489	0.6	0.0	-12.1	-3.5	11.6	15.1			17.0	Apr-18
NCREIF-ODCE +1%			0.1	-6.8	-11.3	8.2	6.7			6.9	
Grandview Property Partners II	15,677,163	0.6	0.0	-7.7	-1.9					-1.2	Dec-21
NCREIF-ODCE +1%			0.1	-6.8	-11.3					4.8	
Infrastructure	196,306,225	7.7	0.0	4.0	7.5	1.9	4.0	6.9		4.9	Jun-15
CPI + 5% 1 Qtr Lag (Unadjusted)			0.6	7.3	8.3	10.9	9.1	8.7		8.3	
MS Infrastructure Partners II	13,627,765	0.5	0.0	-2.9	-1.9	8.0	7.7	9.6		7.1	Jun-15
CPI + 5% 1 Qtr Lag (Unadjusted)			0.6	7.3	8.3	10.9	9.1	8.7		8.3	
Palistar Communications Infrastructure Fund II	13,746,259	0.5	0.0	3.2	5.7					8.1	Feb-22
CPI + 5% 1 Qtr Lag (Unadjusted)			0.6	7.3	8.3					11.2	
JP Morgan IIF Hedged LP	33,674,788	1.3	0.0	4.9	10.4					8.7	Apr-22
CPI + 5% 1 Qtr Lag (Unadjusted)			0.6	7.3	8.3					11.3	
Northern Trust Infrastructure Fund	80,427,100	3.1	0.0	4.1	7.8					-2.2	Jul-21
67% STOXX Global Broad Infra/33% Blmbg. US TIPS 1 Qtr Lag			0.0	3.9	7.7					-2.0	
IFM Global Infrastructure Fund	54,830,313	2.1	0.0	5.2	9.0					7.7	Aug-22
CPI + 5% 1 Qtr Lag (Unadjusted)			0.6	7.3	8.3					9.8	-



TOTAL FUND PERFORMANCE DETAIL

	Allocat	ion					Perform	mance (%)		
	Market	% of	1 Mo	YTD	1 Yr	3 Yrs	5 Yrs	7 Yrs	10 Yrs	Inception	Inception
	Value (\$)	Portfolio	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	Date
Private Equity	148,934,997	5.8	-0.7	3.8	4.0	11.3				12.3	Dec-18
Russell 3000 + 3%			-2.4	12.1	11.6	12.5				13.3	
Private Equity	110,831,545	4.3	0.0	-0.2	0.7	15.1				14.5	Apr-20
Russell 3000 + 3%			-2.4	12.1	11.6	12.5				19.4	
Private Equity Proxy	38,103,452	1.5	-2.7	9.5	8.4	9.2	11.3	12.3	11.2	9.3	Dec-03
Russell 3000 Index			-2.7	9.4	8.4	9.2	10.2	11.6	10.5	9.2	
Private Credit	227,273,249	8.9	-0.4	7.5	9.8	5.0	0.9	1.2	2.3	2.6	Jun-13
S&P/LSTA Leveraged Loan Index +2%			0.2	12.0	14.2	8.1	6.6	6.7	6.3	6.3	
Private Credit	133,364,935	5.2	0.0	8.4	9.4	9.6	3.5	3.1	3.7	3.9	Jun-13
S&P/LSTA Leveraged Loan Index +2%			0.2	12.0	14.2	8.1	6.6	6.7	6.3	6.3	
Private Credit Proxy	93,908,314	3.7	-1.0	5.6	9.0					-1.3	Jul-21
ICE BofA US High Yield Master II Constrained			-1.2	4.7	5.8					-2.4	
Risk-Diversifying Sub-Portfolio	420,888,936	16.4	-1.6	-2.1	-2.1	-3.6	0.1	0.4	1.5	3.5	Dec-03
StanCERA Risk-Diversifying Blended BM			-1.7	1.1	4.4	-2.2	1.0	0.7	1.0		
Risk Parity	211,225,964	8.2	-2.5	-4.4	-5.5	-3.5	1.5			0.4	Dec-17
60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg			-2.3	2.7	7.0	1.0	4.0			2.9	
AQR Global Risk Premium - EL	114,879,042	4.5	-2.2	-2.2	-1.5	-0.9	2.4			1.8	Apr-18
60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg			-2.3	2.7	7.0	1.0	4.0			2.9	
PanAgora Risk Parity Multi Asset	96,346,922	3.8	-2.8	-6.9	-9.8	-6.4	0.5			-0.8	Dec-17
60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg			-2.3	2.7	7.0	1.0	4.0			2.9	
US Treasury Bonds	133,354,504	5.2	-1.5	-3.8	-1.3	-7.0	-0.6	-0.3	1.0	3.3	Dec-03
Blmbg. U.S. Treasury: 7-10 Year			-1.9	-4.7	-2.4	-7.7	-0.5	-1.0	0.5	3.0	
Northern Trust Intermediate Gov't Bond	98,978,126	3.9	-0.3	-0.1	1.4	-3.2	0.6			0.3	Aug-17
Blmbg. U.S. Government: Intermediate			-0.3	0.0	1.5	-3.2	0.6			0.3	
Northern Trust Long Term Gov't Bond	34,376,379	1.3	-4.9	-13.1	-8.5	-15.5	-2.7			-3.0	Aug-17
Blmbg. U.S. Government: Long Term Bond Index			-4.9	-13.0	-8.4	-16.2	-3.2			-3.4	
Liquid Absolute Return	76,308,468	3.0	0.4	6.9	5.3					12.1	Oct-21
30 Day T-Bill + 4%			0.8	7.6	9.0					6.8	
Graham Global Investment Fund I SPC LTD	73,498,302	2.9	1.0	8.9	5.2					17.5	Nov-21
HFRI Macro (Total) Index			-0.7	-0.2	-2.2					3.5	
Invesco Global Targeted Return	2,810,165	0.1	-0.8	2.8	5.4					2.9	Dec-21
30 Day T-Bill + 4%			0.8	7.6	9.0					7.1	



CASH FLOW SUMMARY BY MANAGER

1 Month Ending October 31, 2023													
	Beginning Market Value	Contributions	Withdrawals	Net Investment Change	Ending Market Value								
Abry Senior Equity VI, L.P.	\$8,307,968	-	-	-	\$8,307,968								
American Strategic Value Realty	\$83,095,772	-	-	-	\$83,095,772								
AQR Global Risk Premium - EL	\$117,416,285	-	-	-\$2,537,243	\$114,879,042								
Audax Private Equity VII	\$1,172,389	\$1,822,909	-	-	\$2,995,298								
Blackrock High Yield Fund	\$78,095,093	-	-	-\$976,877	\$77,118,216								
BlackRock Real Estate Securities	\$4,134,558	-	-	-\$187,303	\$3,947,255								
BlackRock Russell 1000 Growth	\$225,732,384	-	-\$25,000,000	-\$2,772,327	\$197,960,057								
BlackRock Russell 1000 Value	\$111,256,738	-	-	-\$3,918,527	\$107,338,211								
Blue Wolf Capital Fund V-A, L.P.	\$5,733,679	-	-	-	\$5,733,679								
Callodine Loan Fund II LP	\$11,852,585	-	-	-	\$11,852,585								
Cash Account	\$41,377,031	\$29,459,573	-\$26,481,743	\$179,531	\$44,534,392								
Channing	\$28,606,121	-	-	-\$1,742,238	\$26,863,883								
Clayton, Dublier, & Rice	\$15,027,093	\$2,077,900	-	-	\$17,104,993								
Crestline Opportunity Fund IV	\$5,594,724	-	-	-	\$5,594,724								
Dodge & Cox-Equity	\$115,214,411	-	-	-\$4,009,026	\$111,205,385								
Fidelity Int'l Growth	\$227,108,843	-	-	-\$9,694,007	\$217,414,836								
Genstar Capital Partners X	\$10,907,780	\$2,657,626	-	-	\$13,565,406								
Graham Global Investment Fund I SPC LTD	\$60,410,262	\$12,500,000	-	\$588,041	\$73,498,302								
Grandview Property Partners I	\$19,317,039	-	-\$4,096,550	-	\$15,220,489								
Grandview Property Partners II	\$15,677,163	-	-	-	\$15,677,163								
Great Hill EP VIII	\$3,274,371	\$152,808	-	-	\$3,427,179								
Greenfield Acquisition Partners VII	\$1,053,770	-	-	-	\$1,053,770								
Gryphon Partners VI LP	\$17,269,161	\$234,127	-	-	\$17,503,288								
IFM Global Infrastructure Fund	\$54,830,313	-	-	-	\$54,830,313								
Insight	\$183,329,704	\$36,771,886	-\$3,945,525	-\$314,568	\$215,841,496								
Insight Partners XI	\$21,452,165	-	-	-	\$21,452,165								
Invesco Global Targets Returns	\$28,405,702	-	-\$25,362,372	-\$233,165	\$2,810,165								
JP Morgan IIF Hedged LP	\$33,674,788	-	-	-	\$33,674,788								
LSV Int'l Large Cap Value	\$270,239,045	-	-	-\$11,261,605	\$258,977,441								



CASH FLOW SUMMARY BY MANAGER

	Beginning Market Value	Contributions	Withdrawals	Net Investment Change	Ending Market Value
Medley Capital	\$842,175	-	-	-	\$842,175
Monroe Private Credit IV	\$16,790,098	-	-	-	\$16,790,098
MS Infrastructure Partners II	\$13,627,765	-	-	-	\$13,627,765
Northern Trust Infrastructure Fund	\$80,427,100	-	-	-	\$80,427,100
Northern Trust Intermediate Gov't Bond	\$99,315,715	-	-	-\$337,590	\$98,978,126
Northern Trust Long Term Gov't Bond	\$36,132,267	-	-	-\$1,755,888	\$34,376,379
Northern Trust Russell 3000	\$43,882,165	-	-\$4,735,526	-\$1,043,187	\$38,103,452
Owl Rock First Lien Fund	\$9,219,413	-	-	-	\$9,219,413
Pacific Ridge	\$17,291,547	-	-	-\$685,127	\$16,606,420
Palistar Communications Infrastructure Fund II	\$13,746,259	-	-	-	\$13,746,259
PanAgora Risk Parity Multi Asset	\$99,080,230	-	-	-\$2,733,308	\$96,346,922
PGIM Real Estate US Debt Fund	\$99,019,998	-	-	-	\$99,019,998
Phocas'	\$24,806,727	-	-	-\$1,206,636	\$23,600,091
Prime Property Fund	\$99,034,302	-	-	-	\$99,034,302
Raven Opportunity III	\$65,047,116	-	-	-	\$65,047,116
Seizert	\$33,947,590	-	-	-\$2,099,538	\$31,848,052
Sole Source Capital Partners II	\$14,022,002	-	-	-	\$14,022,002
Strategic Values Special Situations Fund V, L.P.	\$5,795,422	-	-	-	\$5,795,422
Transition Account	\$312,213	-	-	\$1,268	\$313,482
Vista Foundation Fund IV	\$15,027,535	-	-	-	\$15,027,535
White Oak Pinnacle	\$26,705,533	-	-	-	\$26,705,533
Total	\$2,613,640,108	\$85,676,829	-\$89,621,717	-\$46,739,320	\$2,562,955,900



NOTES

- All performance is shown net of investment management fees.
- Performance history is provided by Verus through June 2020. As of July 1, 2020 performance is calculated and reported by NEPC.
- Policy Index history:
 - Inception 6/30/2017: 14.4% Russell 1000 Value, 11.3% Russell 1000 Growth, 4.8% S&P 500, 4% Russell 2000 Value, 3.7% Russell 2000 Growth, 18% MSCI ACWI ex USA Gross, 29.8%Bloomberg US Aggregate TR, 3.5% DJ US Select RESI TR USD, 7.5% 9% Annual, 3% CPI + 4%
 - **7/1/2017 8/31/2018:** 18.5% Russell 1000, 5.5% Russell 2000, 24% MSCI ACWI ex USA Gross, 19% Bloomberg US Govt/Credit 1-3 Yr. TR, 1% FTSE T-Bill 1 Month TR, 3% Bloomberg US Treasury 7-10 Yr TR, 7.7% NCREIF Property Index, 1.7% NCREIF Property Index +2%, 0.6% CPI + 5%, 5% Bloomberg US High Yield + 2%, 14% 60% MSCI ACWI Net/40% Bloomberg Global Aggregate
 - 9/1/2018 5/30/2019: 10% Russell 1000, 3% Russell 2000, 6% Russell 3000 +3%, 27% MSCI ACWI ex USA Gross, 20% Bloomberg US Govt/Credit 1-3 Yr. TR, 1% FTSE T-Bill 1 Month TR, 3%Bloomberg US Treasury 7-10 Yr TR, 5% NCREIF Property Index, 5% NCREIF Property Index +2%, 1% CPI + 5%, 6% S&P/LSTA Leveraged Loan Index+2%, 13% 60% MSCI ACWI Net/40% Bloomberg Global Aggregate
 - 6/1/2019 6/30/2020: 14% Russell 1000, 3% Russell 2000, 6% Russell 3000 + 3%, 23% MSCI ACWI ex-USA, 19% Bloomberg US Gov't/Credit 1-3 Yr, 1% Citi 1 Month T-Bills, 3% Bloomberg US Treasury 7-10 Yr, 5% NCREIF Property, 5% NCREIF Property +2%, 2% CPI +5%, 6% S&P/LSTA Leveraged Loan Index + 2%, 13% 60% MSCI ACWI / 40% Bloomberg Global Aggregate
 - **7/1/2020 12/31/2020**: 14% Russell 1000, 3% Russell 2000, 6% Russell 3000 + 3%, 23% MSCI ACWI ex-USA, 8% Bloomberg US Gov't/Credit 1-3 Yr, 1% Citi 1 Month T-Bills, 3% Bloomberg US Treasury 7-10 Yr, 5% NCREIF Property, 5% NCREIF Property +2%, 2% CPI +5%, 6% S&P/LSTA Leveraged Loan Index + 2%, 13% 60% MSCI ACWI / 40% Bloomberg Global Aggregate, 11% Bloomberg US Intermediate.
 - 1/1/2021 06/30/2021: 16% Russell 1000, 3.5% Russell 2000, 6% Russell 3000 + 3%, 23% MSCI ACWI ex-USA, 8% Bloomberg US Gov't/Credit 1-3 Yr, 1% Citi 1 Month T-Bills, 5% Bloomberg US Treasury 7-10 Yr, 6% NCREIF Property, 5% NCREIF Property +2%, 2% CPI +5%, 4.5% S&P/LSTA Leveraged Loan Index + 2%, 13% 60% MSCI ACWI / 40% Bloomberg Global Aggregate, 7%Bloomberg US Intermediate.
 - 07/01/2021 06/30/2023: 16% Russell 1000, 4% Russell 2000, 5% Russell 3000 + 3%, 20% MSCI ACWI ex USA Gross, 6.5% NCREIF Property Index, 6% NCREIF Property Index + 2%, 7.5% CPI + 5% (Unadjusted), 8% S&P/LSTA Leveraged Loan Index +2%, 6% Bloomberg US Treasury 7-10 Yr TR, 10% 60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg, 3% 30 Day T-Bill + 4%, 1% FTSE T-Bill 1 Month TR, 7% Bloomberg US Govt/Credit Int TR.
 - **07/01/2023 Present:** 16% Russell 1000, 4% Russell 2000, 5% Russell 3000 + 3%, 20% MSCI ACWI ex USA Gross, 6.5% NCREIF Property Index, 6% NCREIF Property Index + 2%, 7.5% CPI + 5% 1 Qtr Lag (Unadjusted), 8% S&P/LSTA Leveraged Loan Index +2%, 6% Bloomberg US Treasury 7-10 Yr TR, 10% 60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg, 3% 30 Day T-Bill + 4%, 1% FTSE T-Bill 1 Month TR, 7% Bloomberg US Govt/Credit Int TR.
- Starting July 1, 2020, the small Capital Prospects transition cash balance is moved from the Cash composite to the Capital Prospects account. Historical performance for Capital Prospects, US Small, US Equities, Growth Sub-Portfolio, Cash, and Liquidity Sub-Portfolio prior to July 1, 2020 reflects performance of these composites before this change.
- Private Equity investments are valued one guarter lagged and adjusted for capital calls and distributions between guarter-end months.
- Value-Add Real Estate managers are valued quarterly adjusted for current cash flows.
- Starting July 1, 2023, MS Infrastructure Partners II, Northern Infrastructure Fund, Palistar Communications Infrastructure Fund II, JP Morgan IF Hedged LP, and IFM Global Infrastructure Fund are valued one quarter lagged and adjusted for capital calls and distributions between quarter-end months. Northern Trust Infrastructure Fund's benchmark of 67% STOXX Global Broad Infra/33% Bloomberg US TIPS is valued one quarter lagged.
- Fiscal Year End Date June 30.



DISCLAIMERS & DISCLOSURES

Past performance is no guarantee of future results.

Returns for pooled funds, e.g. mutual funds and collective investment trusts, are collected from third parties; they are not generally calculated by NEPC. Returns for separate accounts, with some exceptions, are calculated by NEPC. Returns are reported net of manager fees unless otherwise noted.

A "since inception" return, if reported, begins with the first full month after funding, although actual inception dates (e.g. the middle of a month) and the timing of cash flows are taken into account in Composite return calculations.

NEPC's preferred data source is the plan's custodian bank or record-keeper. If data cannot be obtained from one of the preferred data sources, data provided by investment managers may be used. Information on market indices and security characteristics is received from additional providers. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within. In addition, some index returns displayed in this report or used in calculation of a policy index, allocation index or other custom benchmark may be preliminary and subject to change.

All investments carry some level of risk. Diversification and other asset allocation techniques are not guaranteed to ensure profit or protect against losses.

The opinions presented herein represent the good faith views of NEPC as of the date of this presentation and are subject to change at any time. Neither fund performance nor universe rankings contained in this report should be considered a recommendation by NEPC.

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Source of private fund performance benchmark data: Cambridge Associates, via Refinitiv







QUARTERLY PERFORMANCE REPORT

STANISLAUS COUNTY EMPLOYEES' RETIREMENT ASSOCIATION



SEPTEMBER 30, 2023

Dan Hennessy, CFA, CAIA, Senior Consultant Sam Austin, Partner John Tolar, Consulting Analyst



ECONOMIC ENVIRONMENT

- Q2 Real GDP (third estimate) increased at an annual rate of 2.1%.
 - Retail sales ended August at +2.9% on a YoY basis. In the same period last year the YoY growth rate was +8.8%.
 - Corporate profits as a percent of GDP ended March 2023 at 10.7%, down from 12.3% in the same period last year and remain elevated relative to historical levels.
 - The inventory-to-sales ratio ended July at 1.37 up from 1.36 one year ago. Levels have remained relatively constant since early 2010 with a spike to 1.7 in April 2020.
 - The U.S. trade deficit contracted ended August as exports increased. The trade deficit is the lowest since September 2020.
- The unemployment rate was 3.8% ended Q3, up from 3.5% in Q2; U-6, a broader measure of unemployment, increased to 7.0% in Q3 from 6.9% in Q2.
 - The labor force participation rate ended Q3 at 62.8%, up from 62.6% in Q2. Labor force participation declined to 60.2% in April 2020 and is at levels below the 10 year pre-pandemic average of 63.0%.
- The Case-Shiller Home Price Index (ended July) increased to 310.2 up from 297.3 in Q1 and remains at levels higher than that of pre-financial crisis levels of 150.9.
- Rolling 12-month seasonally-adjusted CPI ended Q3 at 3.69 up from 3.09% in Q2. In the same period last year, it was 8.21%; Capacity Utilization increased to 79.7 from 78.9 in Q2.
- Fed Funds rate increased in Q3 by 0.25% to a targeted range of 5.25%-to-5.50%. The 10-year Treasury Yield (constant maturity) finished Q3 at 4.38% up from 3.75% in Q2.
- The Fed continues scaling back asset purchases. The Fed continues to reduce the size of its balance sheet after a period of rapid growth post-pandemic.
- S&P valuations (using Shiller CAPE ratio) decreased in Q3 to 29.31x from 31.08x in Q2 and are lower than the 10-year average of 29.46x.
 - Cyclically adjusted Shiller PE ratio remains above the long-term average of 17.05x.



MARKET ENVIRONMENT

Q3 2023 OVERVIEW

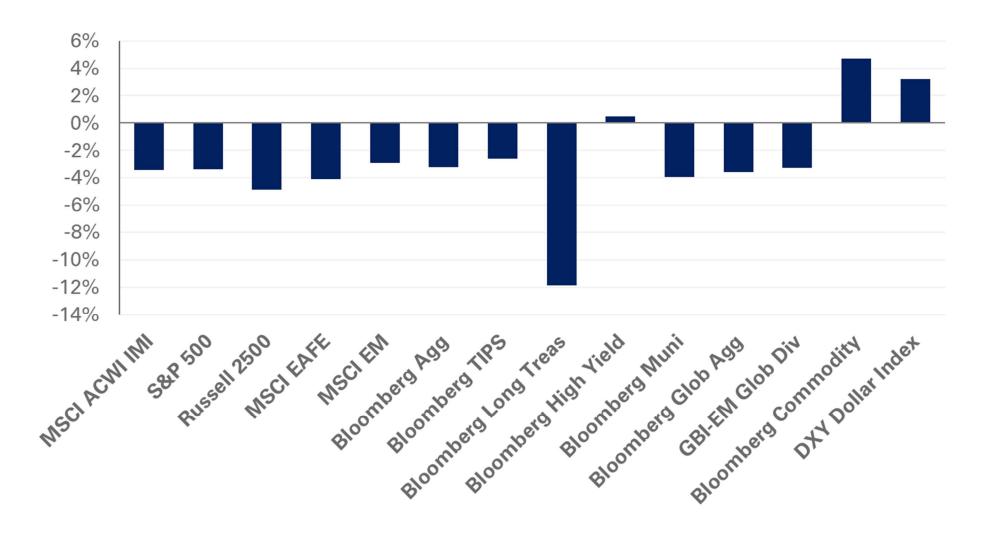
SCI ACWI MC (USD) SCI ACWI MC (USD) World W/O Small Cap 3.40% 20.80% 6.88% 6.09% 7.38% SCI ACWI (Local) World (Local Currency) 2.50% 19.36% 8.41% 7.33% 8.89% MSI ACWI (Scall Subsell 2000 SRP 500 Large Core 3.27% 21.62% 11.95% 9.53% 11.91% 8.89% 11.91% 8.8981 1000 Large Core 3.27% 21.62% 11.95% 9.53% 11.91% 8.8981 1000 Sussell 1000 Large Core 3.27% 21.62% 11.95% 9.53% 11.91% 8.8981 1000 Sussell 1000 Large Core 3.27% 21.62% 11.95% 9.53% 11.91% 8.8981 1000 Sussell 1000 Small Core 4.31% 27.72% 27.72% 7.79% 12.42% 14.48% 14.89% 8.8981 8.89881 8.8981 8.89881 8.8981 8.89881 8			Qtr.	1 Yr.	3 Yr.	5 Yr.	10 Yr.		
SCI ACWI MI (Net) World with Small Cap 3.40% 20.16% 6.88% 6.09% 7.38% MSCI ACWI Net (USD) World W/O Small Cap 3.40% 20.09% 6.88% 7.69% 7.38% MSCI ACWI Net (USD) World W/O Small Cap 3.40% 20.09% 6.88% 7.38% 8.89% MSCI ACWI (Local) World (Local Currency) 2.50% 19.36% 8.41% 7.33% 8.89% MSCI ACWI (Local) Domestic Active Core 3.40% 20.46% 9.83% 9.14% 11.28% MSCI ACWI (Local) Currency 1.25% 20.46% 9.83% 9.14% 11.28% 8.89% 11.09% 9.82% 11.191% 11.91% 11.28% 11.28% 9.53% 9.83% 11.63% 11.28% 11.29% 9.53% 9.80% 11.63% 11.28% 11.29% 11.29% 9.53% 9.80% 11.63% 11.29% 1	World Equity Benchmarks							AACCL A CIAN IAAL (AL-4)	<u> </u>
SCI ACWI (Local) World (Local Currency) - 2.50% 9.38% 9.41% 7.33% 8.89% World (Local Currency) - 2.50% 9.38% 9.41% 7.33% 8.89% MSCI ACWI (Local) World (Local Currency) - 2.50% 9.38% 9.41% 11.28% Bussell 3000 Domestic All Cap 3.22% 21.62% 10.15% 9.22% 11.91% Bussell 3000 Large Core 3.27% 21.62% 10.15% 9.22% 11.91% Bussell 1000 Large Core 3.15% 9.53% 9.63% 11.63% Bussell 1000 Large Core 3.15% 27.72% 7.97% 12.42% 14.48% Bussell 3000 Large Core 3.15% 27.72% 7.97% 12.42% 14.48% Bussell 3000 Large Core 3.15% 27.72% 7.97% 12.42% 14.48% Bussell 3000 Small Gore 5.13% 8.93% 7.16% 2.39% 8.48% Bussell 3000 Small Gore 5.13% 8.93% 7.16% 2.39% 8.48% Bussell 3000 Small Gore 5.13% 8.93% 7.16% 2.39% 6.55% Bussell 3000 Small Gore 5.13% 8.93% 7.16% 2.39% 6.55% Bussell 3000 Small Gore 5.13% 8.93% 7.16% 2.39% 6.55% Bussell 2000 Small Gore 5.13% 8.93% 7.16% 2.39% 6.55% Bussell 3000 Small Gore 5.13% 8.93% 7.16% 2.39% 6.19% Bussell 3000 Small Gore 5.13% 8.93% 7.16% 2.39% 6.19% Bussell 3000 Small Gore 5.13% 8.93% 7.16% 2.39% 6.19% Bussell 3000 Small Gore 5.13% 8.93% 7.16% 2.39% 8.32% Bussell 3000 Small Gore 5.13% 8.93% 7.16% 2.39% 8.32% Bussell 3000 Small Gore 5.13% 8.25% 8.93% 7.25% 8.32% Bussell 3000 Small Gore 5.13% 8.25% 8.93% 7.25% 8.32% Bussell 3000 Small Gore 5.13% 8.25% 8.93% 7.25% 8.25% 8.25% Bussell 3000 Small Gore 5.13% 8.25% 8.25% 8.25% 8.25% 8.25% Bussell 3000 Small Gore 5.13% 8.25% 8.25% 8.25% 8.25% 8.25% 8.25% Bussell 3000 Small Gore 5.13% 8.25% 8.	MSCI ACWI IMI (Net)	World with Small Cap	-3.40%	20.16%	6.88%	6.09%	7.38%		
Nonestic Equity Earchmarks	ISCI ACWI Net (USD)	World W/O Small Cap	-3.40%	20.80%	6.89%	6.46%	7.56%		
See 1,000 Domestic All Cap 3,28% 20,46% 9,38% 9,14% 11,28% S&P 500 Large Core 3,27% 21,62% 10,15% 9,92% 11,91% S&P 500 Large Core 3,27% 21,62% 10,15% 9,92% 11,91% S&P 500 Large Core 3,15% 21,19% 9,53% 9,53% 11,63% 11,63% S&P 500 S&P 500 Large Core 3,15% 21,19% 9,53% 9,53% 11,63% 11,63% S&P 500 S&P 500 S&P 500 Large Growth 3,13% 27,72% 7,97% 12,42% 14,44% 14,48% 14,48% 14,48% 14,48% 14,48% 14,44% 14,45% 14,44% 14,52% 14,44% 14,52% 14,44% 14,52% 1,53% 1,15% 1,	SCI ACWI (Local)	World (Local Currency)	-2.50%	19.36%	8.41%	7.33%	8.89%	MSCI ACWI (Local)	
P 500 Large Core -3.27% 21.62% 10.15% 9.92% 11.91% Russell 1000 Russell 1000 Corowth Large Core -3.15% 21.19% 9.53% 9.53% 11.63% Russell 1000 Growth Large Growth -3.13% 27.72% 7.79% 72.42% 14.48% Russell 1000 Value Large Value -3.17% 14.44% 11.05% 6.23% 8.45% Russell 1000 Value Small Core -5.13% 8.33% 7.16% 2.39% 6.65% Russell 2000 Small Core -5.13% 8.33% 7.16% 2.39% 6.65% Russell 2000 Small Core -5.13% 8.33% 7.16% 2.39% 6.65% Russell 2000 Russell 2000 Growth Small Value -2.96% 7.84% 13.32% 2.95% 6.72% Russell 2000 Growth Small Value -2.96% 7.84% 13.32% 2.95% 6.72% Russell 2000 Growth Small Value -2.96% 7.84% 13.32% 2.59% 6.72% Russell 2000 Growth Russell 2000 Value Small Value -2.86% 7.78% 1.68% 1.31% 6.65% Russell 2000 Growth	omestic Equity Benchmarks	· ·						Russell 3000	
Large Core -3.15% 21.19% 9.53% 9.63% 11.63%	ussell 3000	Domestic All Cap	-3.25%	20.46%	9.38%	9.14%	11.28%	S&P 500	
Russell 1000 Growth	&P 500	Large Core	-3.27%	21.62%	10.15%	9.92%	11.91%	Russell 1000	
Large Growth Large Growth -3.13% 27.72% 7.97% 12.42% 14.48% Russell 2000 Small Core -5.13% 8.35% 7.16% 2.39% 8.45%	ussell 1000	Large Core	-3.15%	21.19%	9.53%	9.63%	11.63%	Russell 1000 Growth	
Large Value 3-17% 14.44% 11.05% 6.23% 8.45% Russell 2000 Small Core 5-13% 8.93% 7.16% 2.38% 6.65% 6.72% 6.85% 6.72% 6.85% 6.72% 6.85% 6.72% 6.85% 6.72% 6.85% 6.72% 6.85% 6.72% 6.85% 6.72% 6.85% 6.72% 6.85%	ussell 1000 Growth	Large Growth	-3.13%	27.72%	7.97%	12.42%	14.48%		
Small Core -5.13% 8.93% 7.16% 2.39% 6.65%	ussell 1000 Value	Large Value	-3.17%	14.44%	11.05%	6.23%	8.45%		
ussell 2000 Growth Small Growth -7.32** 9.69** 1.09** 1.05** 6.72** ussell 2000 Value Small Value 2.96** 7.84** 13.32** 2.96** 6.19** ASDAQ Composite Large Growth -3.94** 26.11** 6.60% 11.41* 14.52** ASDAQ Biotechnology Biotech -2.62** 5.78** -1.68** 1.31** 6.65** ASDAQ Diotechnology Biotech -2.62** 5.78** -1.68** 1.31** 6.65** ASDAQ Diotechnology Biotech -2.62** 5.78** -1.68** 1.31** 6.65** ASCI EAFE Med (USD) Int'I Developed -4.11** 25.65** 5.75** 3.24** 3.83** SCI EAFE Net (USD) Int'I Developed -4.11** 25.55** 5.75** 3.24** 3.85** SCI EAFE Net (USD) Int'I Developed -4.17** 20.32** 10.81** 5.65** 6.75** SCI EAFE Net (USD) Mark Tear Scipe Collad Coll Collegat Collegat Collegat Colle	ussell 2000	Small Core	-5.13%	8.93%	7.16%	2.39%	6.65%		
Similar Value Similar Value Capton Capto	ussell 2000 Growth	Small Growth	-7.32%	9.59%	1.09%	1.55%	6.72%		
ASDAQ Biotechnology Biotech 2.82% 5.78% 1.68% 1.31% 6.65% NASDAQ Biotechnology Biotech 2.82% 5.78% 1.68% 1.31% 6.65% NASDAQ Biotechnology Biotechnology Biotech 2.82% 5.78% 2.83% 3.35% 1.31% 6.65% NASDAQ Biotechnology MSJ ACW EV USA SCI ACW IEX USA World ex-US 2.77% 20.39% 3.74% 2.88% 3.35% NASDAQ Biotechnology MSJ ACW EX USA SCI ACW IEX USA SCI EAFE Net (USD) Int'l Developed (Local Currency) 1.27% 20.32% 10.81% 5.65% 6.75% 6.75% 1.01%	tussell 2000 Value	Small Value	-2.96%	7.84%	13.32%	2.59%	6.19%	Russell 2000 Value	
ASDAQ Biotechnology Biotech 2.8.2% 5.78% -1.68% 1.31% 6.65%	ASDAQ Composite	Large Growth	-3.94%	26.11%	6.60%	11.41%	14.52%	NASDAQ Composite	
MSCI ACWI EX USA World ex-US -3.77% 20.39% 3.74% 2.58% 3.35% 3.35% 3.25% 3	ASDAQ Biotechnology		-2.82%	5.78%		1.31%	6.65%	NASDAQ Biotechnology	
SCI EAFE Net (USD)								MSCI ACWI Ex USA	
MSCI EAFE Net (USD)	ISCI ACWI Ex USA	World ex-US	-3.77%	20.39%	3.74%	2.58%	3.35%	MSCLEAFE Net (USD)	
SCI EAFE (Local) Int'l Developed (Local Currency) -1.27% 20.32% 10.81% 5.65% 6.75% MSCI EAFE Small Cap Small Cap Int'l -3.51% 17.90% 1.10% 0.76% 4.30% SCI EAFE Small Cap Small Cap Int'l -3.51% 17.90% 1.10% 0.76% 4.30% O.55% 2.07% MSCI Emerging Equity -2.93% 11.70% -1.73% 0.55% 2.07% O.55% 2.24% O.55% 2.25% 0.13% 0.55% 2.24% O.55% 2.25% 0.13% O.55% 2.24% O.55% 2.25% 0.14% O.55% 2.25% O.55% O.55% 2.24% O.55% 0.00% O.55% 2.24% O.55% O.55% 2.24% O.55% 0.00% O.55% 2.25% O.55% O.55	ISCI EAFE Net (USD)	Int'l Developed	-4.11%	25.65%	5.75%	3.24%	3.82%		
SCI Emerging Markets Emerging Equity 2.93% 11.70% 1.10% 0.55% 2.07% MSCI Emerging Markets Emerging Equity 2.93% 11.70% 1.10% 0.55% 2.07% MSCI Emerging Markets Bloomberg Aggregate Core Bonds 3.23% 0.64% -5.21% 0.10% 1.13% 4.24% SFB Levered Loans Bank Loans 3.37% 12.47% 5.91% 4.31% 4.33% 1.72	SCI EAFE (Local)	Int'l Developed (Local Currency)	-1.27%	20.32%	10.81%	5.65%	6.75%		
SCI Emerging Markets	ISCI EAFE Small Cap	Small Cap Int'l	-3.51%	17.90%	1.10%	0.76%	4.30%	The state of the s	
Core Bonds -3.23% 0.64% -5.21% 0.10% 1.13%	SCI Emerging Markets	Emerging Equity	-2.93%	11.70%	-1.73%	0.55%	2.07%	0 0	
CSFB Levered Loans Same Loa	omestic Fixed Income Benchmarks							Bloomberg Aggregate	
Bank Loans Ban	oomberg Aggregate	Core Bonds	-3.23%	0.64%	-5.21%	0.10%	1.13%	Barclays US High Yield	
Second Cash	arclays US High Yield	High Yield	0.46%	10.28%	1.76%	2.96%	4.24%	CSFB Levered Loans	
Description Commodity Co	SFB Levered Loans	Bank Loans	3.37%	12.47%	5.91%	4.31%	4.33%	BofA ML US 3-Month T-Bill	
Second S	ofA ML US 3-Month T-Bill	Cash	1.31%	4.47%	1.70%	1.72%	1.12%	Bloomberg US TIPS 1-10 Yr	
Section Composite Compos	loomberg US TIPS 1-10 Yr	Inflation	-1.00%	2.11%	-0.02%	2.63%	1.78%		
Section Commodities Comm	ilobal Fixed Income Benchmarks								
TSE WGBI World Gov. Bonds -4.27% 1.04% -8.72% -2.57% -1.19% C Global Bonds -2.81% 5.82% -5.63% -0.43% 0.78% PM GBI-EM Glob. Diversified	Barclays Global Aggregate	Global Core Bonds	-3.59%	2.24%	-6.93%	-1.62%	-0.44%		
C Global Credit Global Bonds -2.81% 5.82% -5.63% -0.43% 0.78% PM GBI-EM Glob. Diversified Em. Mkt. Bonds (Local Currency) -3.26% 13.10% -2.70% 0.00% -0.84% PM EMBI+ Em. Mkt. Bonds -3.43% 8.47% -8.82% -2.98% 0.56% Iternative Benchmarks Identity Benchmarks I	TSE WGBI	World Gov. Bonds	-4.27%	1.04%	-8.72%	-2.57%	-1.19%		
PM EMB + Em. Mkt. Bonds Cocar Currency -3.26% 13.10% -2.70% 0.00% -0.84%	BC Global Credit	Global Bonds	-2.81%	5.82%	-5.63%	-0.43%	0.78%		
In this In t	PM GBI-EM Glob. Diversified	Em. Mkt. Bonds (Local Currency)	-3.26%	13.10%	-2.70%	0.00%	-0.84%	JPM EMBI+	
Commodity Index	IPM EMBI+	Em. Mkt. Bonds	-3.43%	8.47%	-8.82%	-2.98%	0.56%	Bloomberg Commodity Index	
FRI Fund of Funds Composite Index Fund of Hedge Funds 0.51% 4.59% 3.77% 3.38% 3.28% Ambridge PE Lagged* Private Equity 2.77% 7.38% 21.36% 15.40% 14.54%	Iternative Benchmarks							HFRI Fund of Funds Composite Index	
Ambridge PE Lagged* Private Equity 2.77% 7.38% 21.36% 15.40% 14.54% FTSE NAREIT All Equity REITS CREIF ODCE Net Lagged* Real Estate -2.88% -10.73% 7.04% 5.56% 7.77% TSE NAREIT All Equity REITS REIT -8.33% -1.71% 2.68% 2.79% 6.17%	Bloomberg Commodity Index	Commodities	4.71%	-1.30%	16.23%	6.13%	-0.75%	Cambridge PE Lagged*	
Ambridge PE Lagged* Private Equity 2.77% 7.38% 21.36% 15.40% 14.54% CREIF ODCE Net Lagged* Real Estate -2.88% -10.73% 7.04% 5.56% 7.77% TSE NAREIT All Equity REITS REIT -8.33% -1.71% 2.68% 2.79% 6.17%	IFRI Fund of Funds Composite Index	Fund of Hedge Funds	0.51%	4.59%	3.77%	3.38%	3.28%	NCREIF ODCE Net Lagged*	
CREIF ODCE Net Lagged* Real Estate -2.88% -10.73% 7.04% 5.56% 7.77% ISE NAREIT All Equity REITS REIT -8.33% -1.71% 2.68% 2.79% 6.17%	ambridge PE Lagged*	Private Equity	2.77%	7.38%	21.36%	15.40%	14.54%	00	
TSE NAREIT -8.33% -1.71% 2.68% 2.79% 6.17%	CREIF ODCE Net Lagged*	Real Estate	-2.88%	-10.73%	7.04%	5.56%	7.77%		
PI + 2% Inflation/Real Assets 1.70% 5.76% 7.86% 6.13% 4.84%	TSE NAREIT All Equity REITs	REIT	-8.33%	-1.71%	2.68%	2.79%	6.17%	*	5% -10%
	CPI + 2%	Inflation/Real Assets	1.70%	5.76%	7.86%	6.13%	4.84%		



* As of 6/30/2023

STOCKS AND BONDS SOLD OFF SHARPLY

QUARTERLY TOTAL RETURNS

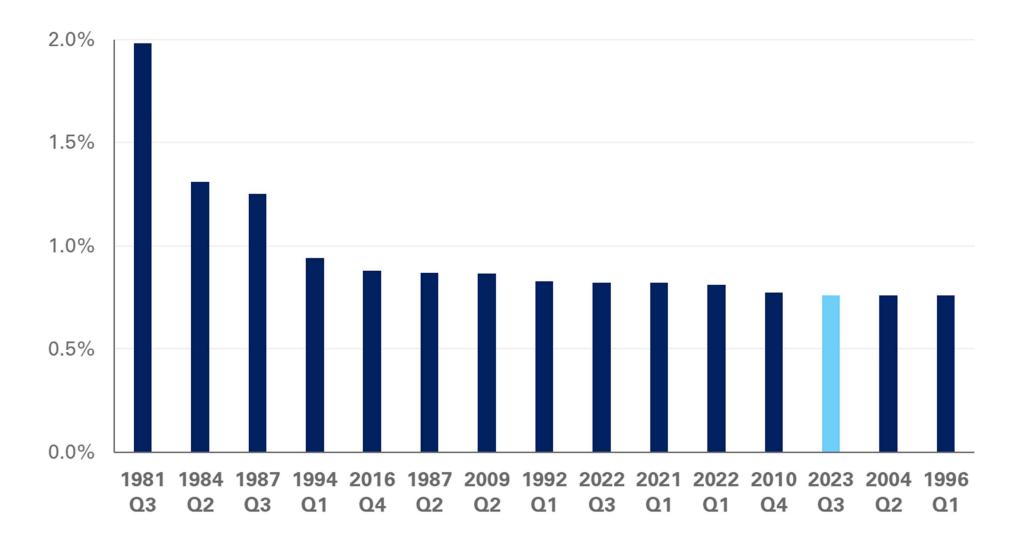




Source: MSCI, S&P, Russell, Bloomberg, JP Morgan, FactSet

10-YEAR YIELDS ROSE SIGNIFICANTLY

TOP 15 QUARTERLY CHANGE: 10-YEAR U.S TREASURY YIELD

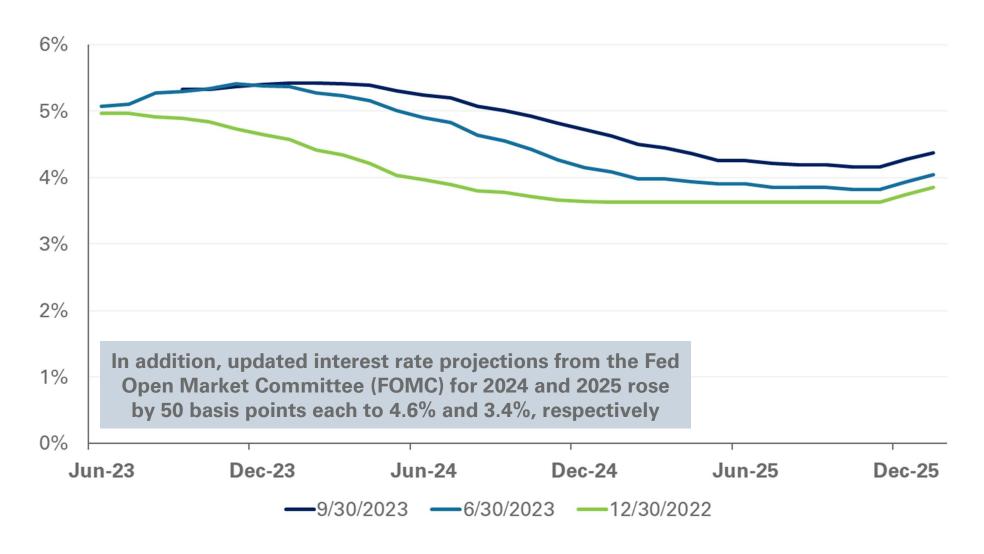




Calculated based on data as of 12/31/1980 Source: FactSet

THE MARKET IS PRICING IN "HIGHER FOR LONGER"

FEDERAL FUND FUTURES

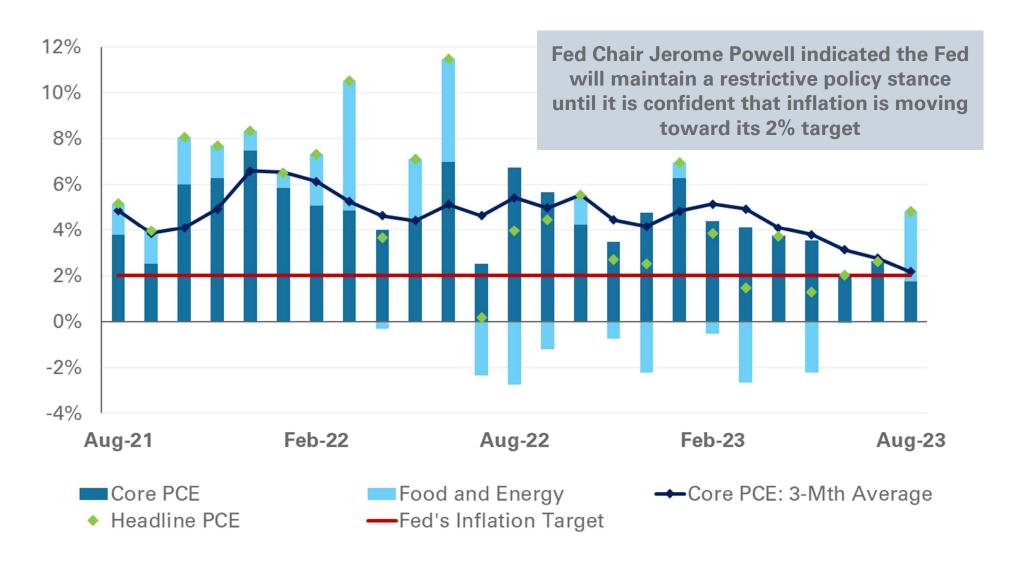




Source: FactSet

CORE INFLATION NEAR FED'S INFLATION TARGET

ANNUALIZED MONTHLY U.S. PCE PRICE INDEX CHANGES

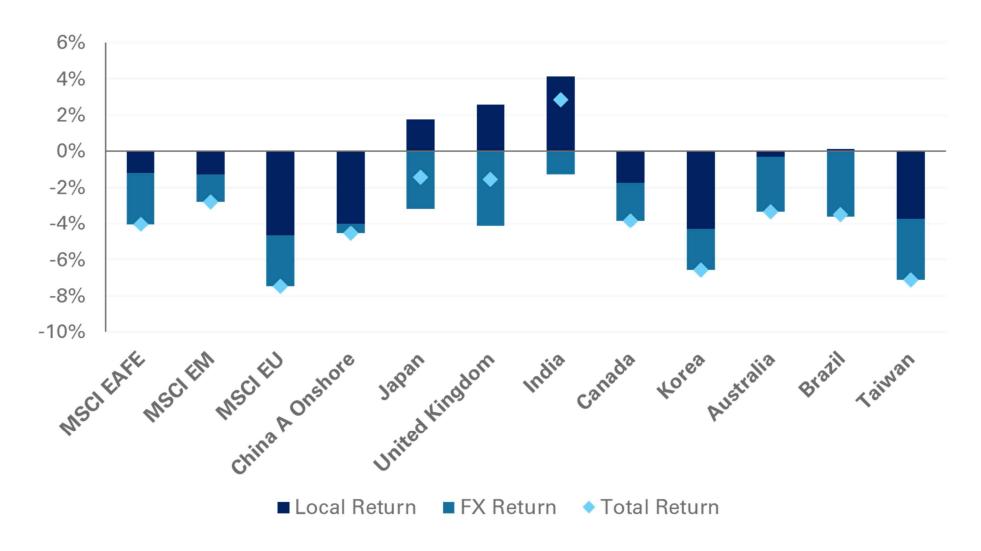




Sources: Department of Labor, FactSet

A STRONGER USD WEIGHED ON NON-U.S. ASSETS

QUARTERLY TOTAL RETURNS

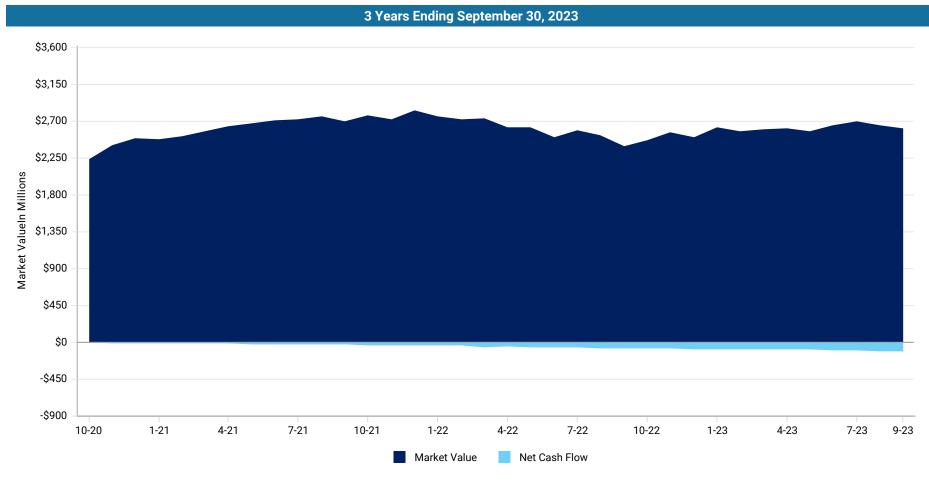




Sources: MSCI, FactSet



ASSET GROWTH SUMMARY



	Last Three Months	Year To Date	1 Year
Beginning Market Value	2,645,831,871	2,506,524,410	2,398,021,638
Net Cash Flow	-14,603,805	-18,291,354	-40,192,880
Net Investment Change	-17,587,958	125,407,052	255,811,351
Ending Market Value	2,613,640,108	2,613,640,108	2,613,640,108
Net Change	-32,191,763	107,115,698	215,618,470



ASSET ALLOCATION VS. POLICY



	Current (\$)	Current (%)	Policy \$	Policy (%)	Policy Range (%)	Within Range
■ Liquidity Sub-Portfolio	225,018,949	8.6	209,091,209	8.0	4.0 - 14.0	Yes
■ Growth Sub-Portfolio	1,947,860,698	74.5	1,907,957,279	73.0	60.0 - 80.0	Yes
Risk-Diversifying Sub-Portfolio	440,760,461	16.9	496,591,620	19.0	15.0 - 24.0	Yes
Total Fund	2,613,640,108	100.0	2,613,640,108	100.0		

*Difference between Policy and Current Allocation



ASSET ALLOCATION VS. POLICY



	Current (\$)	Current (%)	Policy (%)	Policy \$	Policy Range (%)	Within Range
■ Large Cap Equity	452,203,533	17.3	16.0	418,182,417	12.0 - 20.0	Yes
Small Cap Equity	104,651,985	4.0	4.0	104,545,604	0.0 - 7.0	Yes
International Equity	497,347,888	19.0	20.0	522,728,022	14.0 - 26.0	Yes
Intermediate	183,329,704	7.0	7.0	182,954,808	4.0 - 10.0	Yes
Treasury	135,447,982	5.2	6.0	156,818,406	4.0 - 8.0	Yes
Infrastructure	196,306,225	7.5	7.5	196,023,008	0.0 - 12.0	Yes
Absolute Return	88,815,964	3.4	3.0	78,409,203	0.0 - 5.0	Yes
■ Private Equity	147,768,340	5.7	5.0	130,682,005	0.0 - 8.0	Yes
Risk Parity	216,496,515	8.3	10.0	261,364,011	6.0 - 14.0	Yes
■ Private Credit	228,250,126	8.7	8.0	209,091,209	0.0 - 10.0	Yes
Non-Core Real Estate	119,143,744	4.6	6.0	156,818,406	0.0 - 10.0	Yes
Real Estate - Core	202,188,857	7.7	6.5	169,886,607	0.0 - 10.0	Yes
■ Cash	41,689,245	1.6	1.0	26,136,401	0.0 - 4.0	Yes
Total	2,613,640,108	100.0	100.0	2,613,640,108		

^{*}Difference between Policy and Current Allocation



	Allocation	on					Perfor	mance (%)		
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Total Fund	2,613,640,108	100.0	-0.7	5.0	10.6	6.1	5.4	6.6	6.4	8.5	Jan-95
Policy Index			<u>-1.8</u>	<u>5.7</u>	<u>11.7</u>	<u>5.7</u>	<u>5.6</u>	<u>6.6</u>	<u>6.6</u>	<u>7.7</u>	
Allocation Index			<u>-1.9</u>	<u>4.8</u>	<u>10.4</u>	<u>4.7</u>					
InvMetrics Public DB > \$1 Billion Rank			11	34	33	41	46	49	46	12	
Liquidity Sub-Portfolio	225,018,949	8.6	0.4	2.4	4.2	-0.2	2.7	2.0		1.8	Aug-14
StanCERA Liquidity Blended BM			<u>-0.6</u>	<u>1.0</u>	<u>2.5</u>	<u>-1.9</u>	<u>1.6</u>	<u>1.3</u>		<u>1.2</u>	
Cash	41,689,245	1.6	1.5	4.4	5.6	3.4	2.6	2.2		1.9	Aug-14
FTSE 1 Month T-Bill			<u>1.4</u>	<u>3.7</u>	<u>4.6</u>	<u>1.7</u>	<u>1.7</u>	<u>1.5</u>		<u>1.2</u>	
Cashflow-Matched Bonds	183,329,704	7.0	0.2	2.0	3.8	-1.1	2.3			1.9	Jul-17
Blmbg. Intermed. U.S. Government/Credit			<u>-0.8</u>	<u>0.7</u>	<u>2.2</u>	<u>-2.9</u>	<u>1.0</u>			<u>0.8</u>	
eV US Government Fixed Inc Rank			4	4	3	4	2			2	
Insight	183,329,704	7.0	0.2	2.0	3.8	-1.1	2.3			1.9	Jul-17
Blmbg. Intermed. U.S. Government/Credit			<u>-0.8</u>	<u>0.7</u>	<u>2.2</u>	<u>-2.9</u>	<u>1.0</u>			<u>0.8</u>	
eV US Government Fixed Inc Rank			4	4	3	4	2			2	
Growth Sub-Portfolio	1,947,860,698	74.5	-0.4	6.6	14.2	9.2	7.0	8.6	8.0	7.9	Jan-04
StanCERA Growth Blended BM			<u>-1.7</u>	<u>7.0</u>	<u>13.8</u>	<u>8.9</u>	<u>7.6</u>	<u>8.9</u>			



	Allocati	on					Perfor	mance (%)		
	Market	% of	3 Mo	YTD	1 Yr	3 Yrs	5 Yrs	7 Yrs	10 Yrs	Inception	Inception
	Value (\$)	Portfolio	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	Date
US Equities	556,855,518	21.3	-2.2	12.3	21.5	11.9	8.9	11.4	10.6	9.5	Jan-04
Russell 3000 Index			<u>-3.3</u>	<u>12.4</u>	<u>20.5</u>	<u>9.4</u>	<u>9.1</u>	<u>11.6</u>	<u>11.3</u>	<u>9.2</u>	
US Large Equity	452,203,533	17.3	-2.4	13.7	22.4	10.6	9.9	12.4	11.7	12.3	Jan-95
Russell 1000 Index			<u>-3.1</u>	<u>13.0</u>	<u>21.2</u>	<u>9.5</u>	<u>9.6</u>	<u>12.0</u>	<u>11.6</u>	<u>10.2</u>	
eV US Large Cap Equity Rank			35	31	32	36	24	27	26	5	
BlackRock Russell 1000 Growth	225,732,384	8.6	-3.1	24.9	27.7	7.9	12.4	15.6	14.5	15.3	Aug-10
Russell 1000 Growth Index			<u>-3.1</u>	<u>25.0</u>	<u>27.7</u>	<u>8.0</u>	<u>12.4</u>	<u>15.6</u>	<u>14.5</u>	<u>15.3</u>	
eV US Large Cap Growth Equity Rank			41	25	26	26	10	11	6	6	
BlackRock Russell 1000 Value	111,256,738	4.3	-3.2	1.8	14.4	11.0	6.3	8.0	8.5	10.8	Aug-09
Russell 1000 Value Index			<u>-3.2</u>	<u>1.8</u>	<u>14.4</u>	<u>11.1</u>	<u>6.2</u>	<u>7.9</u>	<u>8.4</u>	<u>10.7</u>	
eV US Large Cap Value Equity Rank			72	55	58	61	64	71	61	53	
Dodge & Cox-Equity	115,214,411	4.4	0.0	7.0	20.8	16.2	8.2	10.9	10.4	11.6	Jan-95
Russell 1000 Value Index			<u>-3.2</u>	<u>1.8</u>	<u>14.4</u>	<u>11.1</u>	<u>6.2</u>	<u>7.9</u>	<u>8.4</u>	<u>9.4</u>	
eV US Large Cap Value Equity Rank			9	17	15	10	24	14	16	5	
US Small Equity	104,651,985	4.0	-1.5	6.5	17.6	18.5	5.3	7.9	7.0	11.4	Jan-09
Russell 2000 Index			<u>-5.1</u>	<u>2.5</u>	<u>8.9</u>	<u>7.2</u>	<u>2.4</u>	<u>6.6</u>	<u>6.6</u>	<u>10.5</u>	
eV US Small Cap Value Equity Rank			31	23	28	22	34	32	48	42	
Attucks Small Cap	104,651,985	4.0	-1.5	6.5	17.6	18.5	5.3	8.5	7.8	11.5	Jan-09
Russell 2000 Value Index			<u>-3.0</u>	<u>-0.5</u>	<u>7.8</u>	<u>13.3</u>	<u>2.6</u>	<u>5.9</u>	<u>6.2</u>	<u>9.4</u>	
eV US Small Cap Value Equity Rank			31	23	28	22	34	25	30	37	
International Equity	497,347,888	19.0	-1.6	8.3	26.5	7.3	3.9	5.8	4.3	6.0	Oct-04
MSCI AC World ex USA (Net)			<u>-3.8</u>	<u>5.3</u>	<u>20.4</u>	<u>3.7</u>	<u>2.6</u>	<u>4.7</u>	<u>3.3</u>	<u>5.2</u>	
eV ACWI ex-US Large Cap Equity Rank			16	27	20	18	34	40	46	46	
LSV Int'l Large Cap Value	270,239,045	10.3	0.9	11.3	31.3	11.1	4.2	6.2	4.5	5.9	Oct-04
MSCI AC World ex USA Value (Net)			<u>-0.1</u>	<u>8.2</u>	<u>25.2</u>	<u>9.6</u>	<u>2.3</u>	<u>4.6</u>	<u>2.6</u>	<u>4.7</u>	
eV ACWI ex-US Large Cap Equity Rank			2	3	5	8	31	27	37	46	
Fidelity Int'l Growth	227,108,843	8.7	-4.5	4.9	21.2	3.4	3.4	5.3	3.9	3.7	May-06
MSCI AC World ex USA Growth (Net)			<u>-7.3</u>	<u>2.6</u>	<u>15.8</u>	<u>-1.9</u>	<u>2.5</u>	<u>4.7</u>	<u>3.9</u>	<u>3.5</u>	
eV ACWI ex-US Large Cap Equity Rank			41	62	54	47	45	56	64	44	



	Allocati	on					Perfor	mance (%)		
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Core Real Estate	202,188,857	7.7	0.4	0.4	-0.6	7.7	5.5	5.0	6.8	3.1	Apr-08
NCREIF Property Index			<u>-1.4</u>	<u>-5.1</u>	<u>-8.4</u>	<u>6.0</u>	<u>5.3</u>	<u>5.8</u>	<u>7.4</u>	<u>5.9</u>	
Prime Property Fund	99,034,302	3.8	-0.2	-3.7	-7.2	8.0	6.4	7.0		7.4	Oct-15
NCREIF ODCE			<u>-1.9</u>	<u>-7.6</u>	<u>-12.1</u>	<u>7.1</u>	<u>5.7</u>	<u>6.4</u>		<u>6.8</u>	
BlackRock Real Estate Securities	4,134,558	0.2	-7.4	-2.2	2.5	6.0	1.5	1.6	5.2	5.2	Oct-12
Dow Jones U.S. Select RESI			<u>-7.3</u>	<u>-2.0</u>	<u>2.7</u>	<u>6.1</u>	<u>1.6</u>	<u>1.6</u>	<u>5.3</u>	<u>5.2</u>	
PGIM Real Estate US Debt Fund	99,019,998	3.8	1.3	4.9	6.6	5.6	5.5			5.4	Sep-18
Blmbg. U.S. Investment Grade: CMBS Index			<u>-1.0</u>	<u>0.1</u>	<u>1.0</u>	<u>-3.7</u>	<u>0.9</u>			<u>0.8</u>	
Value-Add Real Estate	119,143,744	4.6	-1.3	-7.4	-7.6	7.6	8.4	9.5		9.6	Aug-14
NCREIF Property Index +2%			<u>-0.9</u>	<u>-3.7</u>	<u>-6.6</u>	<u>8.2</u>	<u>7.4</u>	<u>7.9</u>		<u>9.3</u>	
American Strategic Value Realty	83,095,772	3.2	-1.8	-6.3	-9.6	6.6	6.3	7.4		9.0	Jan-15
NCREIF Property Index			<u>-1.4</u>	<u>-5.1</u>	<u>-8.4</u>	<u>6.0</u>	<u>5.3</u>	<u>5.8</u>		<u>6.8</u>	
Greenfield Acquisition Partners VII	1,053,770	0.0	2.5	10.5	-1.7	5.9	7.5	9.3		9.4	Aug-14
NCREIF-ODCE +1%			<u>-1.7</u>	<u>-6.9</u>	<u>-11.3</u>	<u>8.2</u>	<u>6.7</u>	<u>7.4</u>		<u>9.0</u>	
Grandview Property Partners I	19,317,039	0.7	-0.4	-12.1	-3.5	11.6	14.7			17.3	Apr-18
NCREIF-ODCE +1%			<u>-1.7</u>	<u>-6.9</u>	<u>-11.3</u>	<u>8.2</u>	<u>6.7</u>			<u>7.0</u>	
Grandview Property Partners II	15,677,163	0.6	0.1	-7.7	-1.9					-1.3	Dec-21
NCREIF-ODCE +1%			<u>-1.7</u>	<u>-6.9</u>	<u>-11.3</u>					<u>4.9</u>	



	Allocati	on					Perfor	mance (%)		
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Infrastructure	196,306,225	7.5	0.0	4.0	9.4	1.9	4.4	6.8		5.0	Jun-15
CPI + 5% 1 Qtr Lag (Unadjusted)			<u>2.3</u>	<u>6.6</u>	<u>8.1</u>	<u>11.1</u>	<u>9.1</u>	<u>8.6</u>		<u>8.4</u>	
eV Infrastructure Rank			4	13	30	81	50	6		20	
MS Infrastructure Partners II	13,627,765	0.5	0.0	-2.9	-1.9	8.0	8.1	9.5		7.2	Jun-15
CPI + 5% 1 Qtr Lag (Unadjusted)			<u>2.3</u>	<u>6.6</u>	<u>8.1</u>	<u>11.1</u>	<u>9.1</u>	<u>8.6</u>		<u>8.4</u>	
eV Infrastructure Rank			4	30	93	16	4	2		4	
Northern Trust Infrastructure Fund	80,427,100	3.1	0.0	4.1	12.3					-2.2	Jul-21
67% STOXX Global Broad Infra/33% Blmbg. US TIPS 1 Qtr Lag			<u>0.0</u>	<u>3.9</u>	<u>12.2</u>					<u>-2.1</u>	
Palistar Communications Infrastructure Fund II	13,746,259	0.5	0.0	3.2	5.7					8.5	Feb-22
CPI + 5% 1 Qtr Lag (Unadjusted)			<u>2.3</u>	<u>6.6</u>	<u>8.1</u>					<u>11.4</u>	
JP Morgan IIF Hedged LP	33,674,788	1.3	0.0	4.9	10.4					9.2	Apr-22
CPI + 5% 1 Qtr Lag (Unadjusted)			<u>2.3</u>	<u>6.6</u>	<u>8.1</u>					<u>11.5</u>	
IFM Global Infrastructure Fund	54,830,313	2.1	0.0	5.2	9.4					8.2	Aug-22
CPI + 5% 1 Qtr Lag (Unadjusted)			<u>2.3</u>	<u>6.6</u>	<u>8.1</u>					<u>10.0</u>	



	Allocati	on					Perfor	mance (%)		
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Private Equity	147,768,340	5.7	0.5	4.6	8.5	10.8				12.7	Dec-18
Russell 3000 + 3%			<u>-2.5</u>	<u>14.9</u>	<u>24.1</u>	<u>12.7</u>				<u>14.1</u>	
Private Equity	103,886,175	4.0	2.1	-0.2	0.7	15.1				14.9	Apr-20
Russell 3000 + 3%			<u>-2.5</u>	<u>14.9</u>	<u>24.1</u>	<u>12.7</u>				<u>20.7</u>	
Private Equity Proxy	43,882,165	1.7	-3.3	12.4	20.5	9.4	10.3	12.4	12.0	9.5	Dec-03
Russell 3000 Index			<u>-3.3</u>	<u>12.4</u>	<u>20.5</u>	<u>9.4</u>	<u>9.1</u>	<u>11.6</u>	<u>11.3</u>	<u>9.4</u>	
eV US Large Cap Equity Rank			60	36	41	50	19	27	23	37	
Private Credit	228,250,126	8.7	5.6	8.0	11.7	5.2	1.2	1.5	2.3	2.7	Jun-13
S&P/LSTA Leveraged Loan Index +2%			<u>3.9</u>	<u>11.8</u>	<u>15.3</u>	<u>8.2</u>	<u>6.5</u>	<u>6.8</u>	<u>6.4</u>	<u>6.3</u>	
Private Credit	133,364,935	5.1	8.5	8.4	9.4	9.6	3.7	3.3	3.6	3.9	Jun-13
S&P/LSTA Leveraged Loan Index +2%			<u>3.9</u>	<u>11.8</u>	<u>15.3</u>	<u>8.2</u>	<u>6.5</u>	<u>6.8</u>	<u>6.4</u>	<u>6.3</u>	
Private Credit Proxy	94,885,191	3.6	2.0	6.7	13.0					-0.4	Jun-21
ICE BofA US High Yield Master II Constrained			<u>0.5</u>	<u>6.0</u>	<u>10.2</u>					<u>-1.3</u>	
Risk-Diversifying Sub-Portfolio	440,760,461	16.9	-2.3	-0.5	0.1	-3.2	0.4	0.6	1.7	3.6	Dec-03
StanCERA Risk-Diversifying Blended BM			<u>-2.8</u>	<u>2.8</u>	<u>7.6</u>	<u>-1.8</u>	<u>1.4</u>	<u>0.8</u>	<u>1.3</u>		
Risk Parity	216,496,515	8.3	-4.1	-2.0	-1.2	-3.2	1.2			0.9	Dec-17
60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg			<u>-3.5</u>	<u>5.1</u>	<u>13.2</u>	<u>1.3</u>	<u>3.4</u>			<u>3.4</u>	
AQR Global Risk Premium - EL	117,416,285	4.5	-2.6	0.0	2.4	-0.6	2.0			2.3	Apr-18
60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg			<u>-3.5</u>	<u>5.1</u>	<u>13.2</u>	<u>1.3</u>	<u>3.4</u>			<u>3.4</u>	
PanAgora Risk Parity Multi Asset	99,080,230	3.8	-5.9	-4.2	-5.2	-6.0	0.2			-0.3	Dec-17
60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg			<u>-3.5</u>	<u>5.1</u>	<u>13.2</u>	<u>1.3</u>	<u>3.4</u>			<u>3.4</u>	

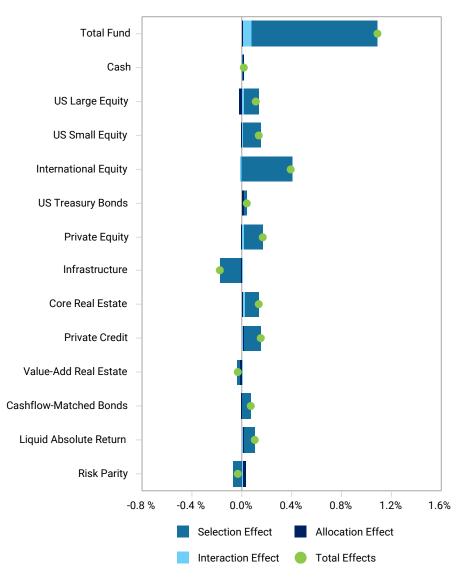


	Allocati	on					Perfor	mance (%)		
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
US Treasury Bonds	135,447,982	5.2	-4.0	-2.3	-1.7	-6.9	-0.4	-0.1	1.3	3.4	Dec-03
Blmbg. U.S. Treasury: 7-10 Year			<u>-4.4</u>	<u>-2.9</u>	<u>-1.9</u>	<u>-7.5</u>	<u>-0.2</u>	<u>-1.0</u>	<u>0.8</u>	<u>3.2</u>	
eV US Government Fixed Inc Rank			90	84	95	95	74	38	6	1	
Northern Trust Intermediate Gov't Bond	99,315,715	3.8	-0.8	0.2	1.3	-3.2	0.6			0.3	Aug-17
Blmbg. U.S. Government: Intermediate			<u>-0.8</u>	<u>0.3</u>	<u>1.3</u>	<u>-3.2</u>	<u>0.7</u>			<u>0.4</u>	
eV US Government Fixed Inc Rank			11	11	6	6	6			6	
Northern Trust Long Term Gov't Bond	36,132,267	1.4	-11.8	-8.6	-9.2	-14.9	-2.3			-2.2	Aug-17
Blmbg. U.S. Government: Long Term Bond Index			<u>-11.8</u>	<u>-8.5</u>	<u>-9.0</u>	<u>-15.7</u>	<u>-2.8</u>			<u>-2.6</u>	
eV US Long Duration Fixed Inc Rank			96	98	97	95	93			94	
Liquid Absolute Return	88,815,964	3.4	5.4	6.4	6.6					12.4	Oct-21
30 Day T-Bill + 4%			<u>2.4</u>	<u>6.8</u>	<u>8.8</u>					<u>6.7</u>	
Graham Global Investment Fund I SPC LTD	60,410,262	2.3	8.2	7.8	5.4					17.7	Nov-21
HFRI Macro (Total) Index			<u>1.3</u>	<u>0.5</u>	<u>-0.9</u>					<u>4.0</u>	
Invesco Global Targeted Return	28,405,702	1.1	-0.2	3.7	9.3					2.7	Nov-21
30 Day T-Bill + 4%			<u>2.4</u>	<u>6.8</u>	<u>8.8</u>					<u>6.8</u>	



ATTRIBUTION ANALYSIS

Attribution Effects 1 Quarter Ending September 30, 2023



	1 Quart			ummary tember 3	0, 2023		
	Wtd. Actual Return (%)	Wtd. Index Return (%)	Excess Return (%)	Selection Effect (%)	Allocation Effect (%)	Interaction Effects (%)	Total Effects (%)
Cash	1.5	1.4	0.2	0.0	0.0	0.0	0.0
US Large Equity	-2.4	-3.1	0.8	0.1	0.0	0.0	0.1
US Small Equity	-1.5	-5.1	3.6	0.1	0.0	0.0	0.1
International Equity	-1.6	-3.7	2.0	0.4	0.0	0.0	0.4
US Treasury Bonds	-4.0	-4.4	0.4	0.0	0.0	0.0	0.0
Private Equity	0.5	-2.5	3.1	0.2	0.0	0.0	0.2
Infrastructure	0.0	2.3	-2.3	-0.2	0.0	0.0	-0.2
Core Real Estate	0.4	-1.4	1.7	0.1	0.0	0.0	0.1
Private Credit	5.6	3.9	1.7	0.1	0.0	0.0	0.2
Value-Add Real Estate	-1.3	-0.9	-0.4	0.0	0.0	0.0	0.0
Cashflow-Matched Bonds	0.2	-0.8	1.0	0.1	0.0	0.0	0.1
Liquid Absolute Return	5.4	2.4	3.0	0.1	0.0	0.0	0.1
Risk Parity	-4.1	-3.5	-0.7	-0.1	0.0	0.0	0.0
Total Fund	-0.7	-1.8	1.1	1.0	0.0	0.1	1.1

^{*}Total Actual and Index returns are weighted average calculations.



ATTRIBUTION ANALYSIS

Attribution Effects 1 Year Ending September 30, 2023

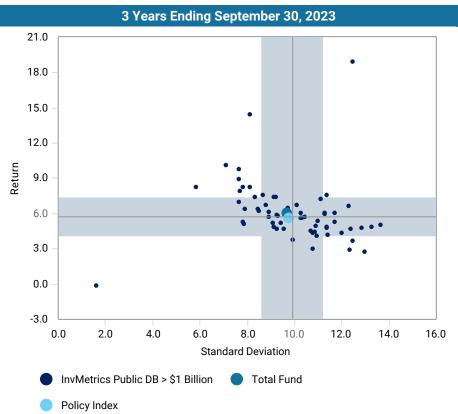


	1 Yea			ummary mber 30,	2023		
	Wtd. Actual Return (%)	Wtd. Index Return (%)	Excess Return (%)	Selection Effect (%)	Allocation Effect (%)	Interaction Effects (%)	Total Effects (%)
Cash	5.6	4.6	1.0	0.0	0.0	0.0	0.0
US Large Equity	22.4	21.2	1.2	0.2	0.0	0.0	0.2
US Small Equity	17.6	8.9	8.7	0.3	-0.1	0.0	0.3
International Equity	26.5	21.0	5.5	1.0	-0.3	-0.1	0.6
US Treasury Bonds	-1.7	-1.9	0.2	0.0	0.1	0.0	0.1
Private Equity	8.5	24.1	-15.6	-0.8	0.1	-0.1	-0.8
Infrastructure	9.4	9.1	0.3	0.0	0.0	0.0	0.0
Core Real Estate	-0.6	-8.4	7.8	0.6	-0.4	0.1	0.3
Private Credit	11.7	15.3	-3.6	-0.3	0.0	0.0	-0.3
Value-Add Real Estate	-7.6	-6.6	-1.1	-0.1	0.1	0.0	0.1
Cashflow-Matched Bonds	3.8	2.2	1.6	0.1	-0.2	0.0	0.0
Liquid Absolute Return	6.6	8.8	-2.2	-0.1	0.0	0.0	-0.1
Risk Parity	-1.2	13.2	-14.4	-1.5	0.0	0.2	-1.3
Total Fund	10.6	11.7	-1.1	-0.4	-0.8	0.2	-1.1

^{*}Total Actual and Index returns are weighted average calculations.



RISK VS. RETURN



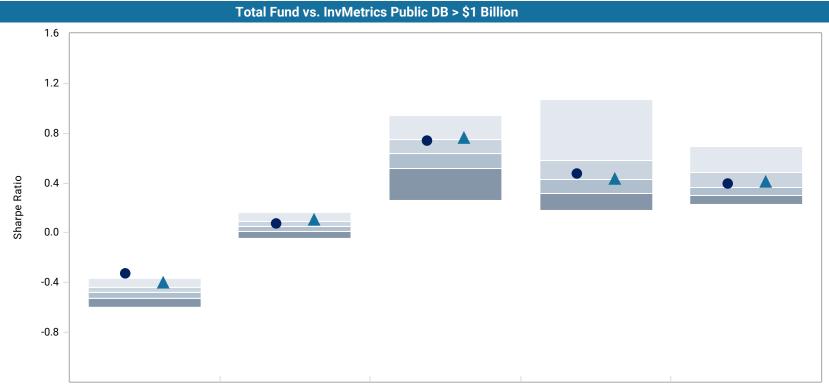
	Stan	dard Deviation	
InvMetrics	Public DB > \$1 Billion	Total Fund	
Policy Inde	x		
	3 Years Ending S	eptember 30, 2023	
	Return	Standard	Sharpe
	Retuin	Deviation	Ratio
Total Fund	6.1 (41)	Deviation 9.7 (46)	Ratio 0.5 (38)
Total Fund Policy Index			

	5 Years	Ending Sept	ember 30, 20	23	
24.0					
20.0 –					
16.0 –					
Return –	•				
8.0 –					
4.0 -				••	
0.0					
4.0	•				
-4.0 6.0	8.0	10.0	12.0	14.0	16.0
		Standard	Deviation		
InvMet	trics Public DB > 3	\$1 Billion	Total Fund		
Policy	Index				

5 Years Ending September 30, 2023									
	Return	Standard Deviation	Sharpe Ratio						
Total Fund	5.4 (46)	10.4 (41)	0.4 (38)						
Policy Index	5.6 (33)	10.3 (40)	0.4 (34)						
Population	61	61	61						



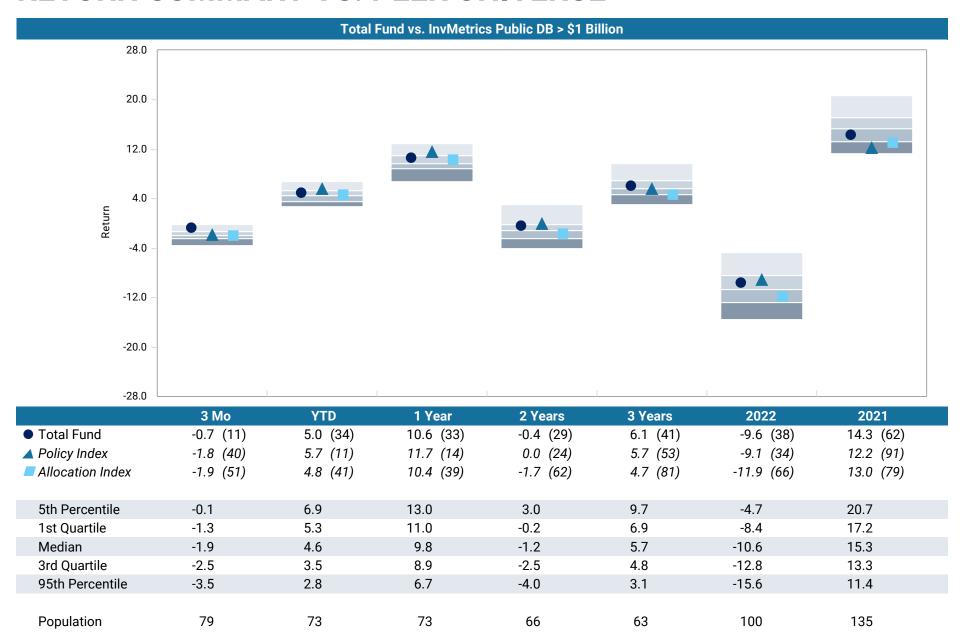
TOTAL FUND SHARPE RATIO RANKINGS



	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)
Total Fund	-0.3 (5)	0.1 (29)	0.7 (26)	0.5 (38)	0.4 (38)
▲ Policy Index	-0.4 (14)	0.1 (19)	0.8 (20)	0.4 (50)	0.4 (34)
5th Percentile	-0.4	0.2	0.9	1.1	0.7
1st Quartile	-0.4	0.1	0.7	0.6	0.5
Median	-0.5	0.0	0.6	0.4	0.4
3rd Quartile	-0.5	0.0	0.5	0.3	0.3
95th Percentile	-0.6	0.0	0.3	0.2	0.2
Population	79	73	73	63	61



RETURN SUMMARY VS. PEER UNIVERSE





FEE SCHEDULE

Account Name	Fee Schedule	Market Value (\$)	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
Cash Account	0.10 % of Assets	41,377,031	41,377	0.10
Transition Account		312,213		
Insight	0.12 % of Assets	183,329,704	219,996	0.12
BlackRock Russell 1000 Growth	0.02 % of Assets	225,732,384	45,146	0.02
BlackRock Russell 1000 Value	0.02 % of Assets	111,256,738	22,251	0.02
Dodge & Cox-Equity	0.40 % of First \$10 M 0.20 % of Next \$90 M 0.15 % Thereafter	115,214,411	242,822	0.21
Callodine Loan Fund II LP		11,852,585		
Channing	0.50 % of Assets	28,606,121	143,031	0.50
Pacific Ridge	0.60 % of Assets	17,291,547	103,749	0.60
Seizert		33,947,590		
Phocas'		24,806,727		
LSV Int'l Large Cap Value	0.25 % of Assets	270,239,045	675,598	0.25
Fidelity Int'l Growth	0.25 % of Assets	227,108,843	567,772	0.25
Prime Property Fund	0.84 % of Assets	99,034,302	831,888	0.84
BlackRock Real Estate Securities	0.09 % of First \$100 M 0.07 % Thereafter	4,134,558	3,721	0.09
PGIM Real Estate US Debt Fund		99,019,998		
American Strategic Value Realty	0.75 % of First \$25 M 0.65 % of Next \$25 M 0.55 % of Next \$50 M 0.45 % Thereafter	83,095,772	532,027	0.64
Greenfield Acquisition Partners VII		1,053,770		
Grandview Property Partners I		19,317,039		
Grandview Property Partners II		15,677,163		
MS Infrastructure Partners II		13,627,765		
Palistar Communications Infrastructure Fund II		13,746,259		
JP Morgan IIF Hedged LP		33,674,788		
Northern Trust Infrastructure Fund		80,427,100		
IFM Global Infrastructure Fund		54,830,313		



FEE SCHEDULE

Account Name	Fee Schedule	Market Value (\$)	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
Vista Foundation Fund IV		15,027,535		
Insight Partners XI		21,452,165		
Gryphon Partners VI LP	0.02 % of Assets	17,269,161	3,454	0.02
Clayton, Dublier, & Rice		15,027,093		
Genstar Capital Partners X		10,907,780		
Sole Source Capital Partners II		14,022,002		
Great Hill EP VIII		3,274,371		
Blue Wolf Capital Fund V-A, L.P.		5,733,679		
Northern Trust Russell 3000	0.02 % of Assets	43,882,165	8,776	0.02
Medley Capital		842,175		
Owl Rock First Lien Fund	0.70 % of Assets	9,219,413	64,536	0.70
Raven Opportunity III		65,047,116		
White Oak Pinnacle		26,705,533		
Abry Senior Equity VI, L.P.		8,307,968		
Strategic Values Special Situations Fund V, L.P.		5,795,422		
Blackrock High Yield Fund		78,095,093		
Monroe Private Credit IV		16,790,098		
AQR Global Risk Premium - EL	0.38 % of Assets	117,416,285	446,182	0.38
PanAgora Risk Parity Multi Asset	0.35 % of Assets	99,080,230	346,781	0.35
Northern Trust Intermediate Gov't Bond	0.05 % of First \$25 M 0.04 % Thereafter	99,315,715	42,226	0.04
Northern Trust Long Term Gov't Bond	0.05 % of First \$25 M 0.04 % Thereafter	36,132,267	16,953	0.05
Graham Global Investment Fund I SPC LTD		60,410,262		
Invesco Global Targeted Return		28,405,702		
Crestline Opportunity Fund IV		5,594,724		
Audax Private Equity VII		1,172,389		
Investment Management Fees		2,613,640,108	4,358,286	0.17



3 Years Ending September 30, 2023											
	Return	Excess Return	Standard Deviation	Alpha	Beta	Tracking Error	R-Squared	Sharpe Ratio	Information Ratio	Up Capture	Down Capture
American Strategic Value Realty	6.6	4.9	7.3	0.1	1.1	1.4	1.0	0.6	0.4	110.8	115.2
NCREIF Property Index	6.0	4.4	6.8	0.0	1.0	0.0	1.0	0.6		100.0	100.0
AQR Global Risk Premium - EL	-0.6	-1.7	10.5	-1.6	0.8	4.9	0.9	-0.2	-0.4	73.5	82.9
60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg	1.3	0.4	12.8	0.0	1.0	0.0	1.0	0.0		100.0	100.0
BlackRock Real Estate Securities	6.0	6.3	21.3	-0.1	1.0	0.1	1.0	0.3	-2.1	99.7	100.1
Dow Jones U.S. Select RESI	6.1	6.5	21.3	0.0	1.0	0.0	1.0	0.3		100.0	100.0
BlackRock Russell 1000 Growth	7.9	8.1	20.8	0.0	1.0	0.0	1.0	0.4	-1.5	99.9	100.0
Russell 1000 Growth Index	8.0	8.1	20.8	0.0	1.0	0.0	1.0	0.4		100.0	100.0
BlackRock Russell 1000 Value	11.0	10.3	17.6	0.0	1.0	0.0	1.0	0.6	-1.1	99.9	100.0
Russell 1000 Value Index	11.1	10.3	17.6	0.0	1.0	0.0	1.0	0.6		100.0	100.0
Capital Prospects Transition	0.0	-1.7	0.0	0.0	0.0	23.2		-2.8	-0.7	0.0	0.0
Russell 2000 Value Index	13.3	13.4	23.2	0.0	1.0	0.0	1.0	0.6		100.0	100.0
Channing	13.5	13.8	24.0	0.7	1.0	7.8	0.9	0.6	0.0	97.0	93.8
Russell 2000 Value Index	13.3	13.4	23.2	0.0	1.0	0.0	1.0	0.6		100.0	100.0
Dodge & Cox-Equity	16.2	15.3	19.7	4.0	1.1	4.9	0.9	0.8	1.0	112.5	94.9
Russell 1000 Value Index	11.1	10.3	17.6	0.0	1.0	0.0	1.0	0.6		100.0	100.0
LSV Int'l Large Cap Value	11.1	10.3	17.4	1.7	1.0	2.2	1.0	0.6	0.6	101.0	94.2
MSCI AC World ex USA Value (Net)	9.6	9.0	17.9	0.0	1.0	0.0	1.0	0.5		100.0	100.0
Fidelity Int'l Growth	3.4	3.2	18.0	5.4	1.0	5.5	0.9	0.2	1.0	103.2	81.5
MSCI AC World ex USA Growth (Net)	-1.9	-2.0	17.8	0.0	1.0	0.0	1.0	-0.1		100.0	100.0
Greenfield Acquisition Partners VII	5.9	4.9	13.2	4.7	0.2	14.8	0.0	0.4	-0.1	52.9	-0.1
NCREIF-ODCE +1%	8.2	6.6	9.1	0.0	1.0	0.0	1.0	0.7		100.0	100.0
Grandview Property Partners I	11.6	11.3	21.5	4.8	1.0	19.5	0.2	0.5	0.2	111.3	19.8
NCREIF-ODCE +1%	8.2	6.6	9.1	0.0	1.0	0.0	1.0	0.7		100.0	100.0
Insight Partners XI	20.5	19.7	24.0	18.9	0.3	26.7	0.0	0.8	0.3	68.1	6.1
Russell 3000 + 3%	12.7	11.9	18.2	0.0	1.0	0.0	1.0	0.7		100.0	100.0



Stanislaus County ERA RISK STATISTICS

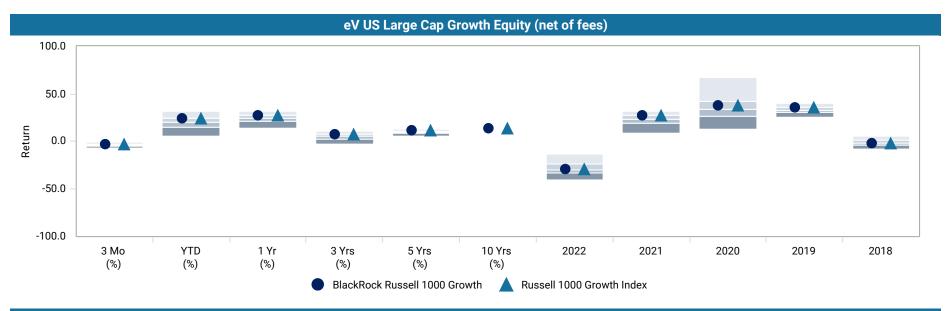
	Return	Excess Return	Standard Deviation	Alpha	Beta	Tracking Error	R-Squared	Sharpe Ratio	Information Ratio	Up Capture	Down Capture
Medley Capital	-3.8	-4.4	15.1	-0.6	-0.3	15.9	0.0	-0.3	-0.7	-25.9	4.0
S&P/LSTA Leveraged Loan Index +2%	8.2	6.3	4.0	0.0	1.0	0.0	1.0	1.6		100.0	100.0
MS Infrastructure Partners II	8.0	6.4	8.4	-16.1	2.4	8.0	0.2	0.8	-0.3	76.5	
CPI + 5% 1 Qtr Lag (Unadjusted)	11.1	8.9	1.4	0.0	1.0	0.0	1.0	5.4		100.0	
Northern Trust Intermediate Gov't Bond	-3.2	-4.9	3.7	-0.1	1.0	0.2	1.0	-1.3	-0.3	98.9	100.3
Blmbg. U.S. Government: Intermediate	-3.2	-4.8	3.7	0.0	1.0	0.0	1.0	-1.3		100.0	100.0
Northern Trust Long Term Gov't Bond	-14.9	-16.9	13.4	0.7	1.0	1.9	1.0	-1.3	0.4	101.0	97.4
Blmbg. U.S. Government: Long Term Bond Index	-15.7	-17.7	13.5	0.0	1.0	0.0	1.0	-1.3		100.0	100.0
Northern Trust Russell 3000	9.4	8.9	18.2	0.0	1.0	0.1	1.0	0.5	0.1	100.0	100.0
Russell 3000 Index	9.4	8.9	18.2	0.0	1.0	0.0	1.0	0.5		100.0	100.0
Owl Rock First Lien Fund	13.3	11.2	8.1	14.3	-0.1	9.2	0.0	1.4	0.5	110.1	-67.9
S&P/LSTA Leveraged Loan Index +2%	8.2	6.3	4.0	0.0	1.0	0.0	1.0	1.6		100.0	100.0
Pacific Ridge	15.9	15.5	22.1	5.6	0.8	9.3	0.9	0.7	0.3	92.2	76.4
Russell Microcap Value Index	11.8	12.3	24.5	0.0	1.0	0.0	1.0	0.5		100.0	100.0
PanAgora Risk Parity Multi Asset	-6.0	-6.7	15.1	-7.1	1.1	6.1	0.8	-0.4	-1.2	88.1	129.4
60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg	1.3	0.4	12.8	0.0	1.0	0.0	1.0	0.0		100.0	100.0
PGIM Real Estate US Debt Fund	5.6	3.8	2.3	5.3	-0.1	5.6	0.0	1.7	1.6	42.9	-42.4
Blmbg. U.S. Investment Grade: CMBS Index	-3.7	-5.3	4.7	0.0	1.0	0.0	1.0	-1.1		100.0	100.0
Prime Property Fund	8.0	6.4	8.3	1.6	0.9	2.4	0.9	0.7	0.3	91.1	58.1
NCREIF ODCE	7.1	5.6	9.0	0.0	1.0	0.0	1.0	0.6		100.0	100.0
Raven Opportunity III	15.0	13.0	12.0	23.5	-0.8	13.7	0.1	1.1	0.5	90.1	-235.7
S&P/LSTA Leveraged Loan Index +2%	8.2	6.3	4.0	0.0	1.0	0.0	1.0	1.6		100.0	100.0
Vista Foundation Fund IV	-41.1	-29.2	45.6	-21.0	-0.3	51.1	0.0	-0.6	-0.8	-83.3	-1.1
Russell 3000 + 3%	12.7	11.9	18.2	0.0	1.0	0.0	1.0	0.7		100.0	100.0
White Oak Pinnacle	4.2	2.7	7.7	2.4	0.3	8.2	0.0	0.3	-0.4	61.7	84.2
S&P/LSTA Leveraged Loan Index +2%	8.2	6.3	4.0	0.0	1.0	0.0	1.0	1.6		100.0	100.0

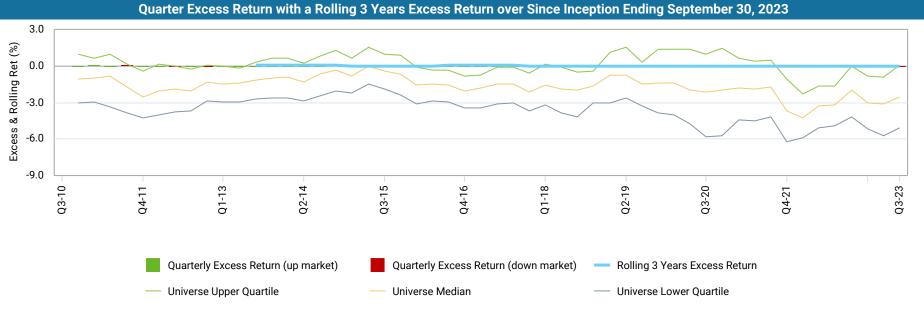






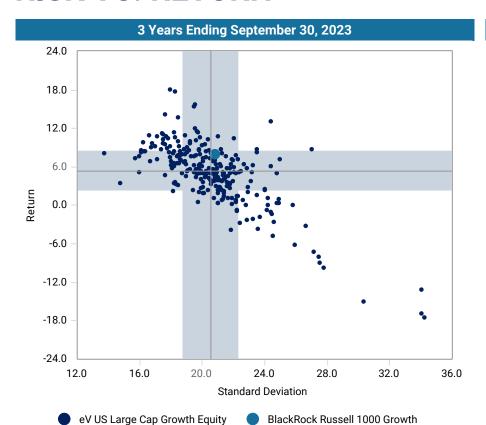
BLACKROCK RUSSELL 1000 GROWTH







RISK VS. RETURN



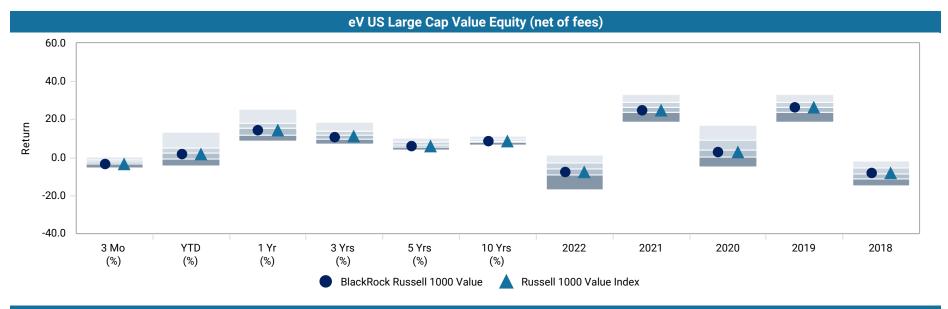
	5 Yea	ars Ending	Septembe	r 30, 2023		
17.5						
15.0 –		•				
12.5 –	•			•		
10.0 -	•					
Return - 2.5 -	•			•		
5.0 -	•			•	•	•
2.5 –				•	•	
0.0 -				•	·	
-2.5						
12.0	16.0	20.0	24.0	28.0	32.0	36.0
		Sta	andard Deviat	ion		
eV U	S Large Cap G	Frowth Equity	Black	Rock Russell	1000 Growth	

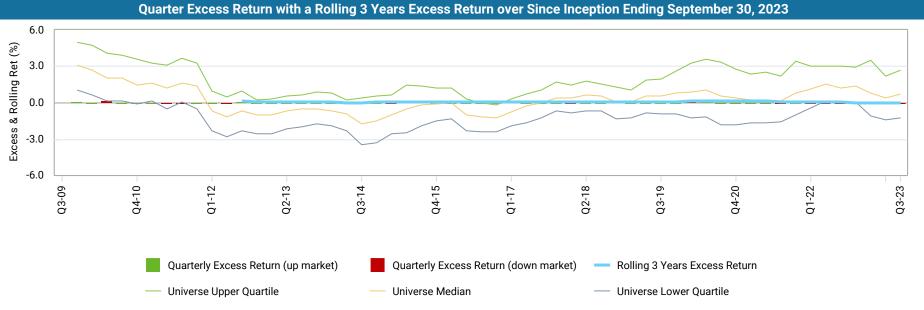
3 Years Ending September 30, 2023									
	Return	Standard Deviation	Sharpe Ratio						
BlackRock Russell 1000 Growth	7.9 (27)	20.8 (55)	0.4 (29)						
Russell 1000 Growth Index	8.0 (27)	20.8 (55)	0.4 (29)						
eV US Large Cap Growth Equity Median	5.4	20.5	0.3						
Population	269	269	269						

5 Years Ending September 30, 2023									
	Return	Standard Deviation	Sharpe Ratio						
BlackRock Russell 1000 Growth	12.4 (10)	21.3 (57)	0.6 (15)						
Russell 1000 Growth Index	12.4 (10)	21.3 (57)	0.6 (15)						
eV US Large Cap Growth Equity Median	9.8	21.0	0.5						
Population	257	257	257						



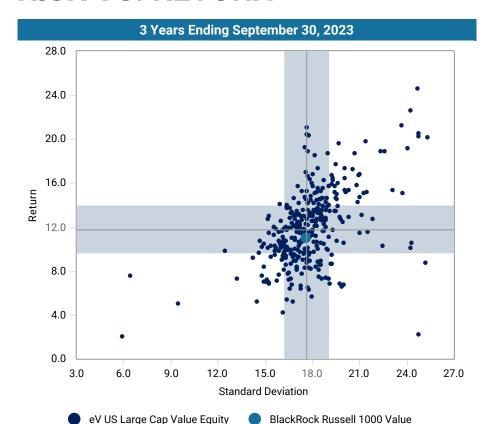
BLACKROCK RUSSELL 1000 VALUE

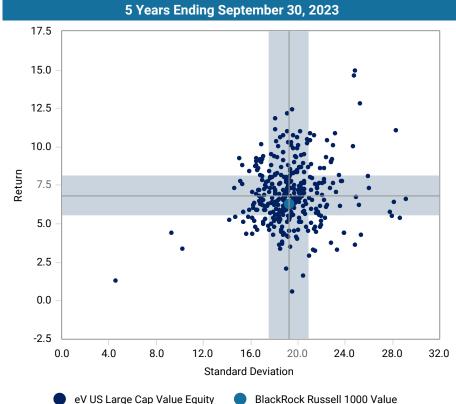






RISK VS. RETURN



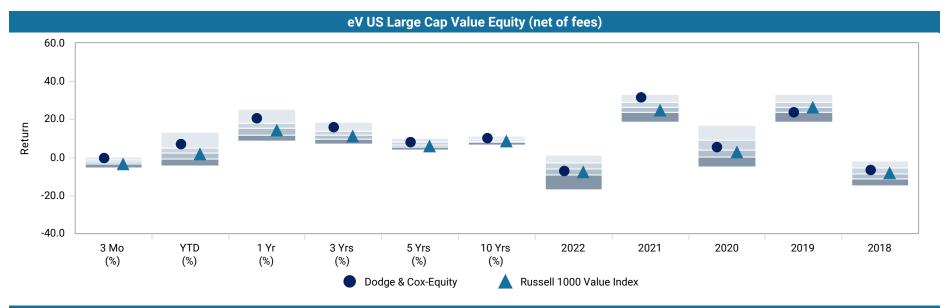


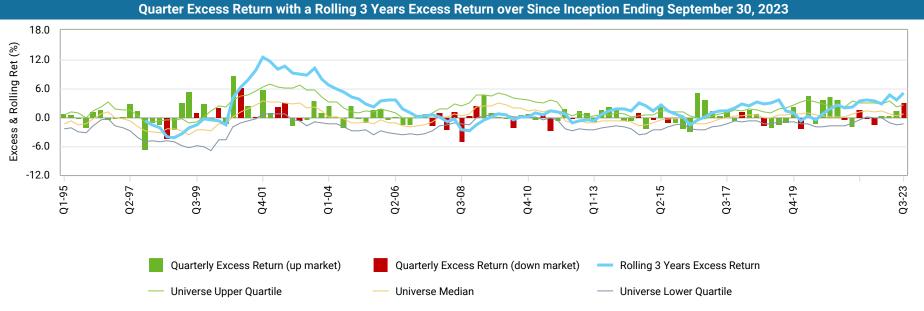
3 Years Ending September 30, 2023									
	Return	Return Standard Deviation							
BlackRock Russell 1000 Value	11.0 (60)	17.6 (48)	0.6 (65)						
Russell 1000 Value Index	11.1 (60)	17.6 (48)	0.6 (64)						
eV US Large Cap Value Equity Median	11.8	17.6	0.6						
Population	361	361	361						

5 Years Ending September 30, 2023								
	Return	Standard Deviation	Sharpe Ratio					
BlackRock Russell 1000 Value	6.3 (63)	19.3 (50)	0.3 (65)					
Russell 1000 Value Index	6.2 (66)	19.3 (50)	0.3 (67)					
eV US Large Cap Value Equity Median	6.8	19.2	0.3					
Population	353	353	353					



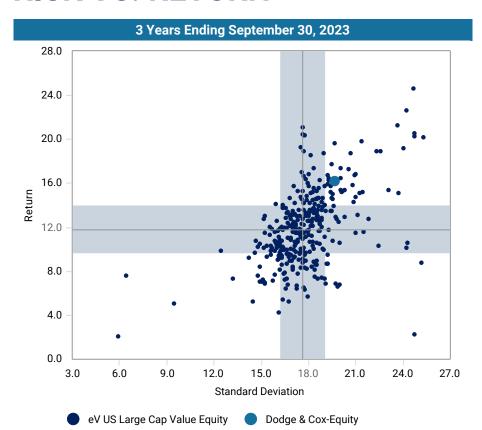
DODGE & COX-EQUITY

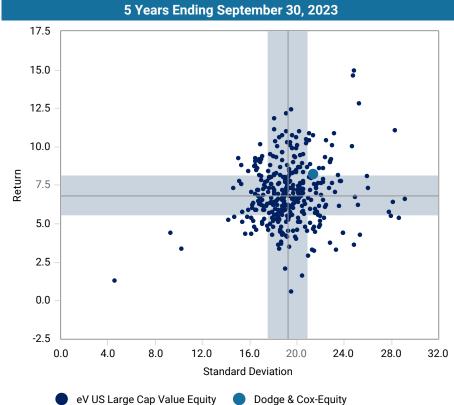






RISK VS. RETURN



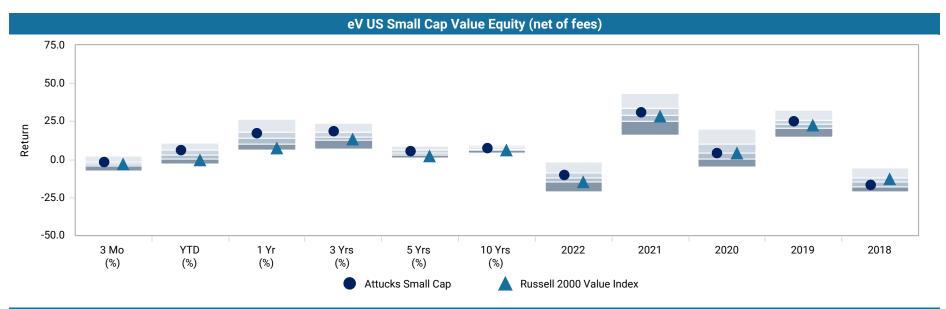


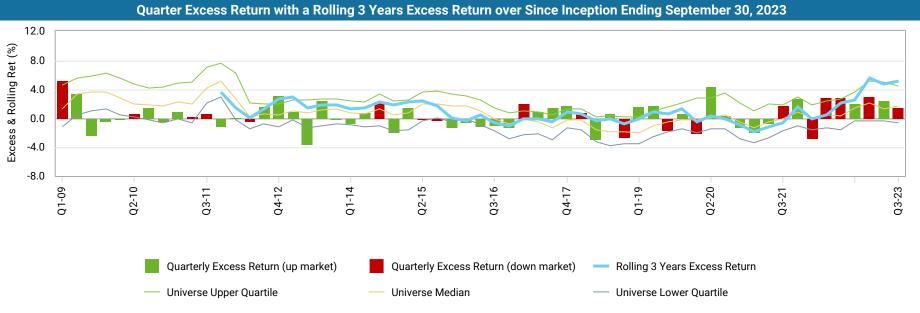
3 Years Ending September 30, 2023			
	Return Standard Deviation		Sharpe Ratio
Dodge & Cox-Equity	16.2 (10)	19.7 (87)	0.8 (13)
Russell 1000 Value Index	11.1 (60)	17.6 (48)	0.6 (64)
eV US Large Cap Value Equity Median	11.8	17.6	0.6
Population	361	361	361

5 Years Ending September 30, 2023				
	Return	Standard Deviation	Sharpe Ratio	
Dodge & Cox-Equity	8.2 (24)	21.4 (82)	0.4 (31)	
Russell 1000 Value Index	6.2 (66)	19.3 (50)	0.3 (67)	
eV US Large Cap Value Equity Median	6.8	19.2	0.3	
Population	353	353	353	



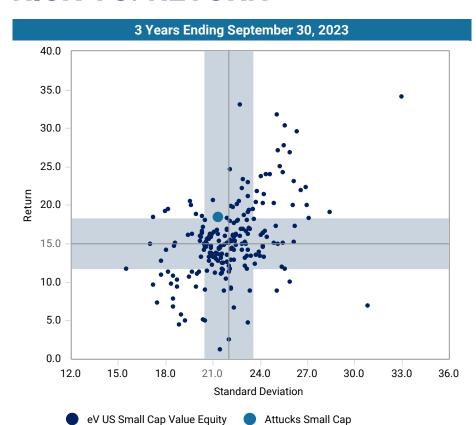
ATTUCKS SMALL CAP







RISK VS. RETURN



5 Years Ending September 30, 2023						
20.0			•			
16.0 –				•		
12.0 –	•			•		
Return - 0.8				•		
4.0				•	•	
0.0 -	•			•		
-4.0 16.0	20.0	24.0	28.0	32.0	36.0	40.0
10.0	20.0		26.0 Indard Deviati		30.0	40.0
eV	US Small Cap	Value Equity	Attuc	ks Small Cap		

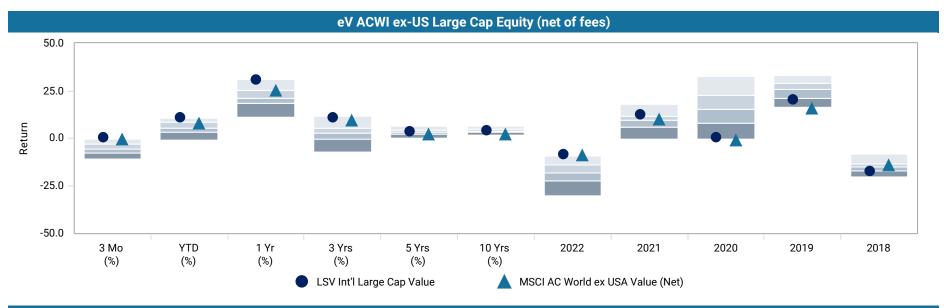
3 Years Ending September 30, 2023			
	Return Standard Deviation		Sharpe Ratio
Attucks Small Cap	18.5 (21)	21.3 (35)	0.8 (17)
Russell 2000 Value Index	13.3 (72)	23.2 (71)	0.6 (75)
eV US Small Cap Value Equity Median	15.1	22.0	0.7
Population	212	212	212

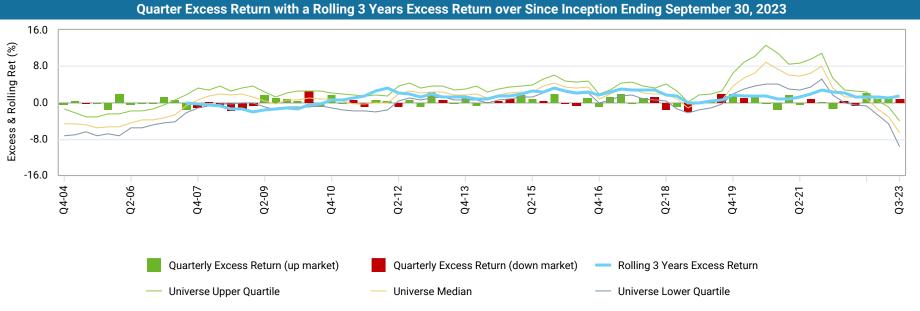
5 Years Ending September 30, 2023				
	Return	Standard Deviation	Sharpe Ratio	
Attucks Small Cap	5.3 (36)	25.6 (59)	0.3 (36)	
Russell 2000 Value Index	2.6 (83)	25.3 (54)	0.2 (83)	
eV US Small Cap Value Equity Median	4.3	24.9	0.2	
Population	204	204	204	



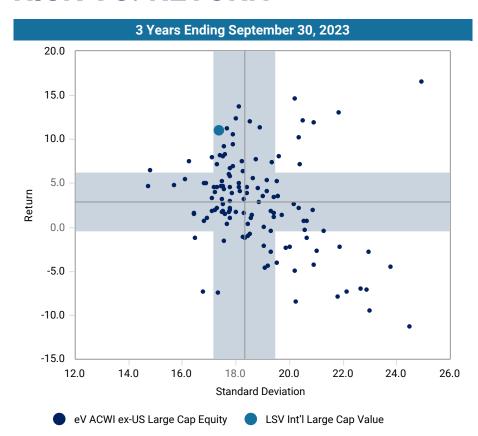


LSV INT'L LARGE CAP VALUE









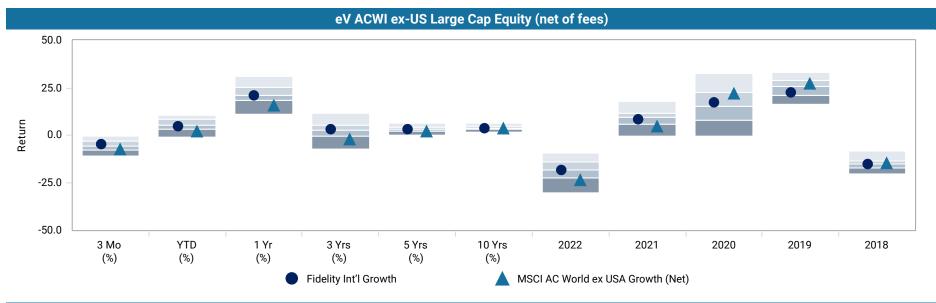
	5 Y	ears End	ling Sept	ember 30	, 2023		
12.0							
9.0 -	•			•	•		
6.0 –			• • •		•	•	
0.0				• •			
Return 3.0 -			3.3.			•	
0.0 -					•		
-3.0 -					•		
-6.0							
12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0
			Standard	Deviation			

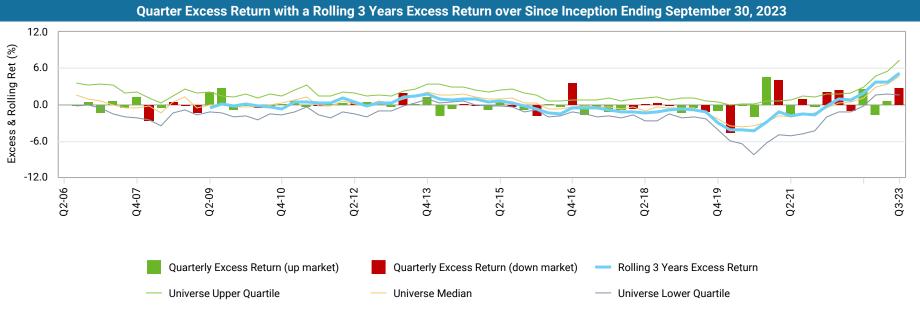
3 Years Ending September 30, 2023						
	Return	Standard Deviation	Sharpe Ratio			
LSV Int'l Large Cap Value	11.1 (8)	17.4 (18)	0.6 (5)			
MSCI AC World ex USA Value (Net)	9.6 (10)	17.9 (40)	0.5 (9)			
eV ACWI ex-US Large Cap Equity Median	2.9	18.3	0.2			
Population	127	127	127			

5 Years Ending September 30, 2023						
	Return	Standard Deviation	Sharpe Ratio			
LSV Int'l Large Cap Value	4.2 (31)	18.9 (51)	0.2 (31)			
MSCI AC World ex USA Value (Net)	2.3 (79)	18.9 (50)	0.1 (79)			
eV ACWI ex-US Large Cap Equity Median	3.2	18.8	0.2			
Population	115	115	115			

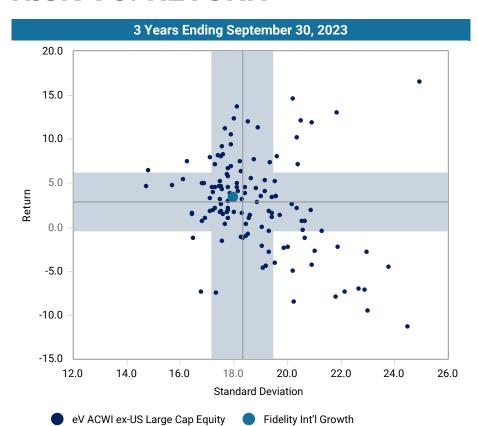


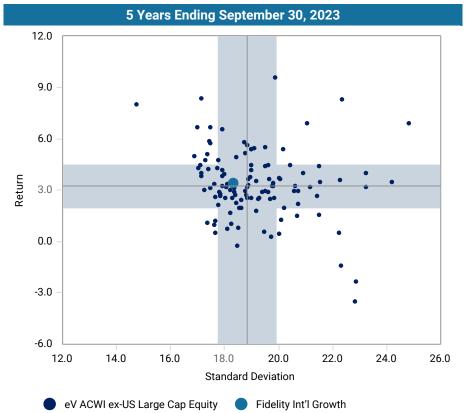
FIDELITY INT'L GROWTH











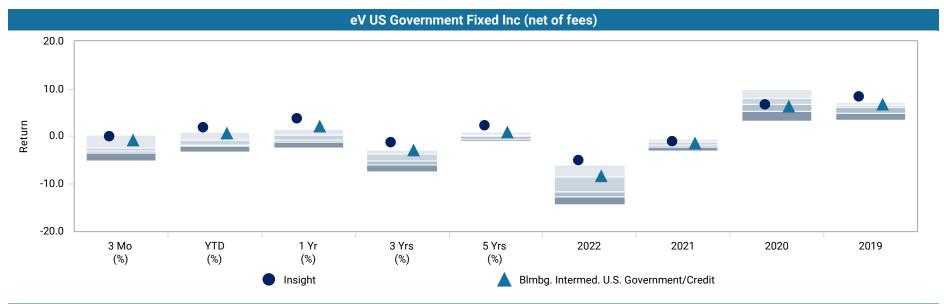
3 Years Ending September 30, 2023						
	Return	Standard Deviation	Sharpe Ratio			
Fidelity Int'l Growth	3.4 (47)	18.0 (40)	0.2 (47)			
MSCI AC World ex USA Growth (Net)	-1.9 (84)	17.8 (37)	-0.1 (88)			
eV ACWI ex-US Large Cap Equity Median	2.9	18.3	0.2			
Population	127	127	127			

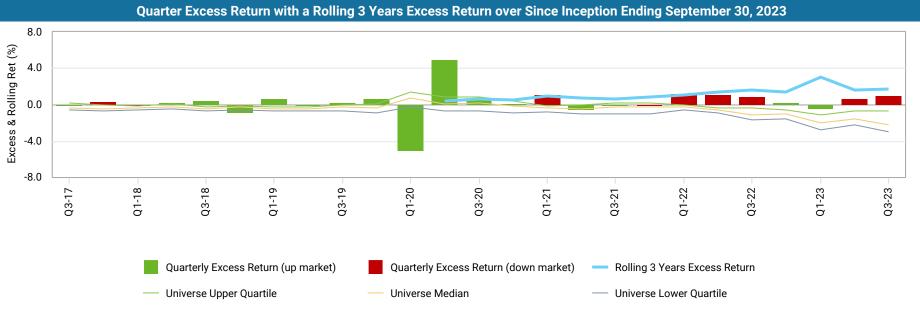
5 Years Ending September 30, 2023						
	Return	Standard Deviation	Sharpe Ratio			
Fidelity Int'l Growth	3.4 (45)	18.3 (35)	0.2 (45)			
MSCI AC World ex USA Growth (Net)	2.5 (74)	17.9 (24)	0.1 (77)			
eV ACWI ex-US Large Cap Equity Median	3.2	18.8	0.2			
Population	115	115	115			



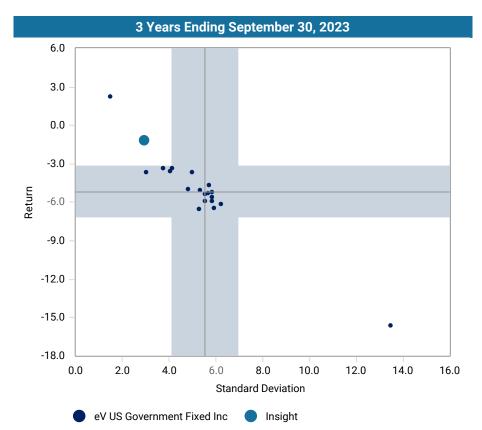


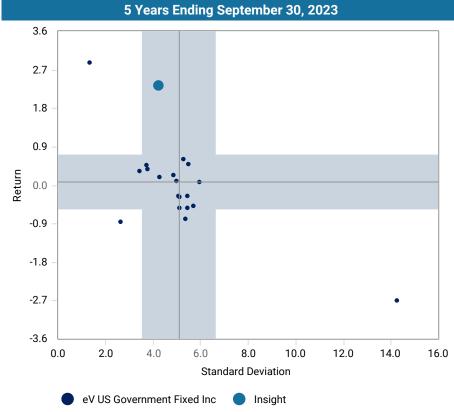
INSIGHT









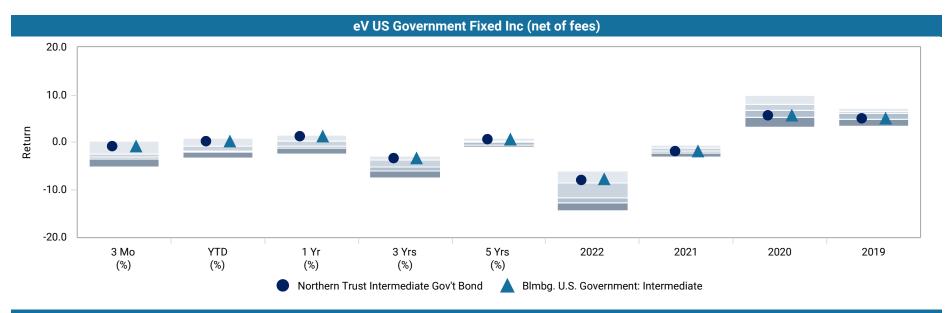


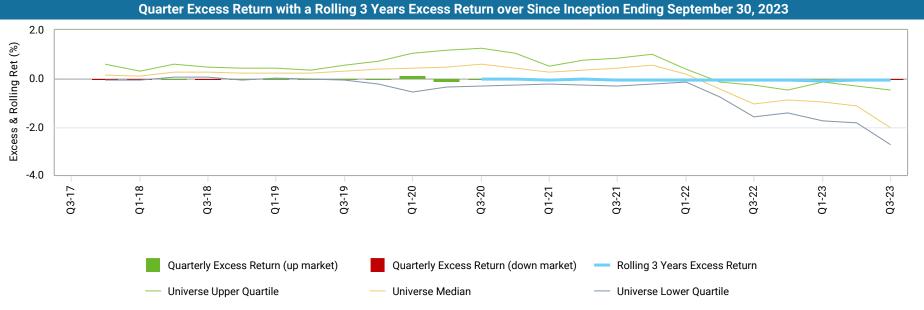
3 Years Ending September 30, 2023						
	Standard Deviation	Sharpe Ratio				
Insight	-1.1 (4)	3.0 (5)	-1.0 (6)			
Blmbg. Intermed. U.S. Government/Credit	-2.9 (6)	4.1 (20)	-1.1 (14)			
eV US Government Fixed Inc Median	-5.2	5.5	-1.3			
Population	19	19	19			

5 Years Ending September 30, 2023						
	Return Standard S Deviation F					
Insight	2.3 (2)	4.2 (27)	0.2 (4)			
Blmbg. Intermed. U.S. Government/Credit	1.0 (5)	3.8 (21)	-0.2 (6)			
eV US Government Fixed Inc Median	0.1	5.1	-0.3			
Population	19	19	19			

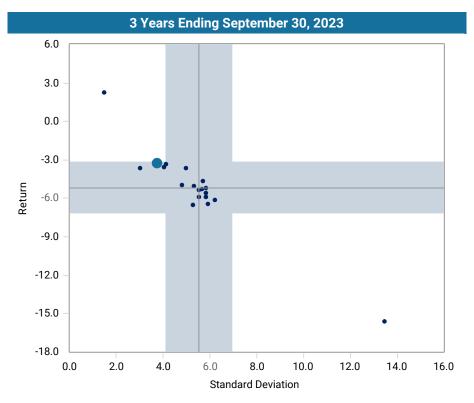


NORTHERN TRUST INTERMEDIATE GOV'T BOND









3 Years Ending September 30, 2023

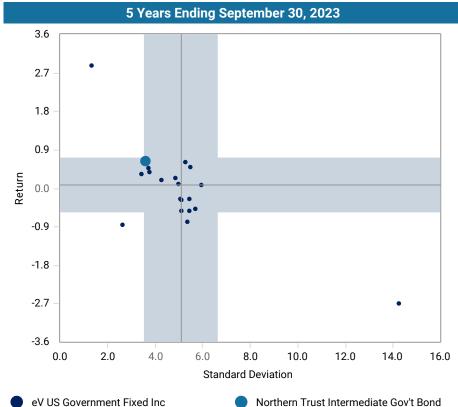
Return

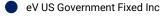
-3.2 (6)

-3.2 (6)

-5.2

19





Northern Trust Intermediate Gov't Bond

Blmbg. U.S. Government: Intermediate eV US Government Fixed Inc Median

	Northern Trust Intermediate	Gov't Bond
	Northern must intermediate	GOVEDOIN

19

23			
Stan	dard	Sharpe	
Devi	ation	Ratio	
3.7	(11)	-1.3 (68)	١
3.7	(11)	-1.3 (58)	В
5.5		-1.3	е

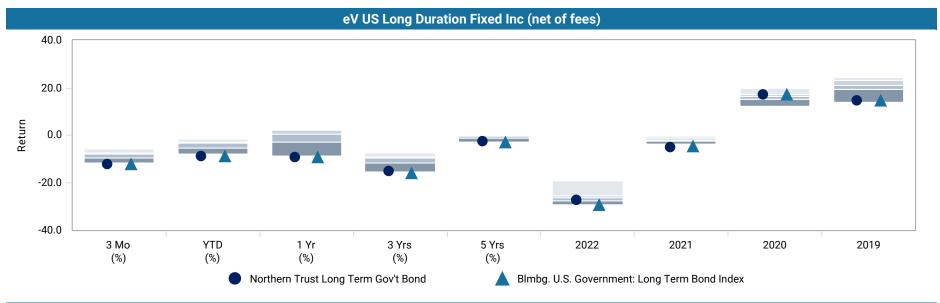
19

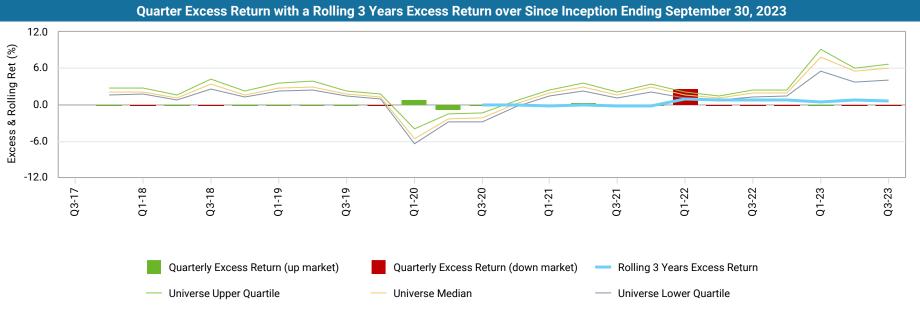
5 Years Ending September 30, 2023							
	Return	Standard Deviation	Sharpe Ratio				
Northern Trust Intermediate Gov't Bond	0.6 (6)	3.6 (14)	-0.3 (28)				
Blmbg. U.S. Government: Intermediate	0.7 (6)	3.6 (13)	-0.3 (27)				
eV US Government Fixed Inc Median	0.1	5.1	-0.3				
Population	19	19	19				



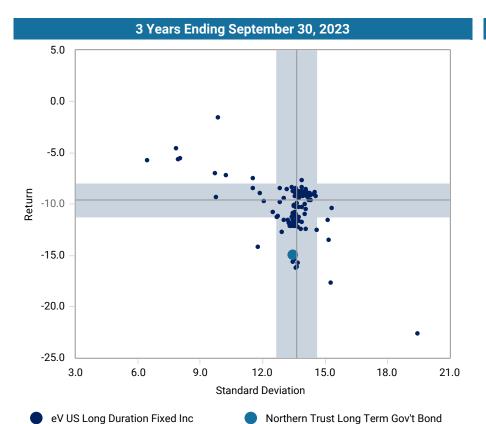
Population

NORTHERN TRUST LONG TERM GOV'T BOND









	5 \	ears End	ding Septe	ember 30	, 2023		
4.0							
2.0 -		•					
0.0 -	•	• •	• • •				
Return -2.0 –					•		
-4.0 –							
-6.0 –						•	
-8.0	ı	ı			ı		
3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0
			Standard	Deviation			
eV US Lo	ng Duration	Fixed Inc		Northern ⁻	Trust Long	Γerm Gov't Ε	Bond

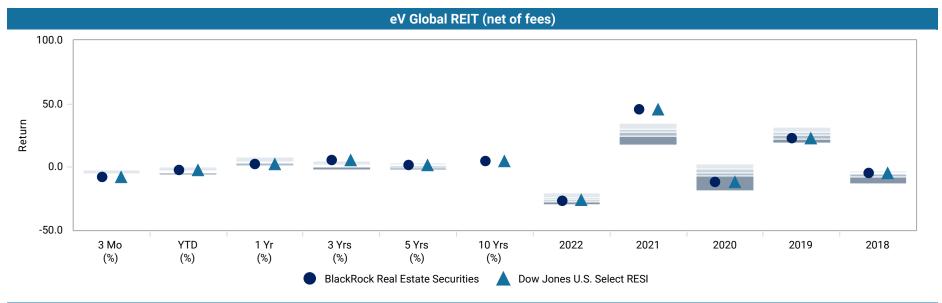
3 Years Ending September 30, 2023						
	Return	Sharpe Ratio				
Northern Trust Long Term Gov't Bond	-14.9 (95)	13.4 (28)	-1.3 (94)			
Blmbg. U.S. Government: Long Term Bond Index	-15.7 (97)	13.5 (30)	-1.3 (98)			
eV US Long Duration Fixed Inc Median	-9.6	13.6	-0.8			
Population	120	120	120			

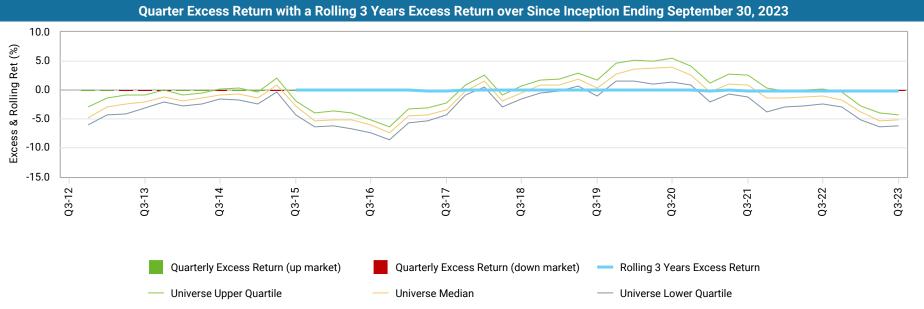
5 Years Ending Septemb	5 Years Ending September 30, 2023												
	Return	Standard Deviation	Sharpe Ratio										
Northern Trust Long Term Gov't Bond	-2.3 (93)	14.3 (90)	-0.2 (93)										
Blmbg. U.S. Government: Long Term Bond Index	-2.8 (94)	14.3 (90)	-0.2 (95)										
eV US Long Duration Fixed Inc Median	-0.2	13.3	-0.1										
Population	116	116	116										



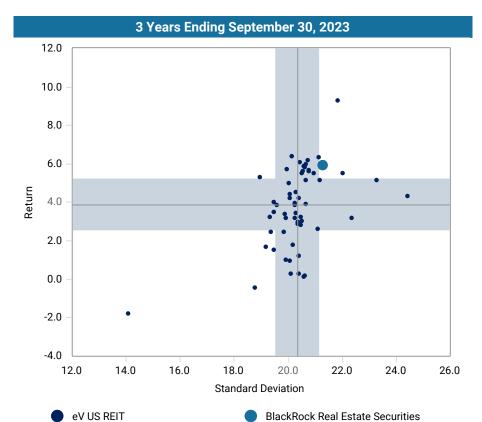


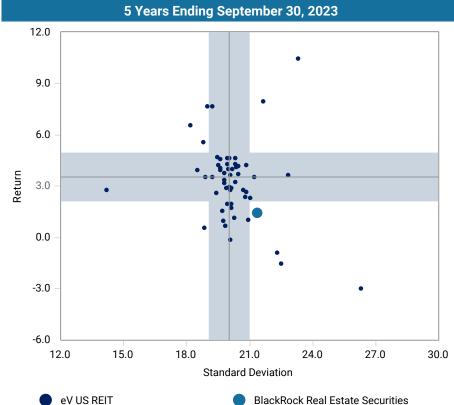
BLACKROCK REAL ESTATE SECURITIES











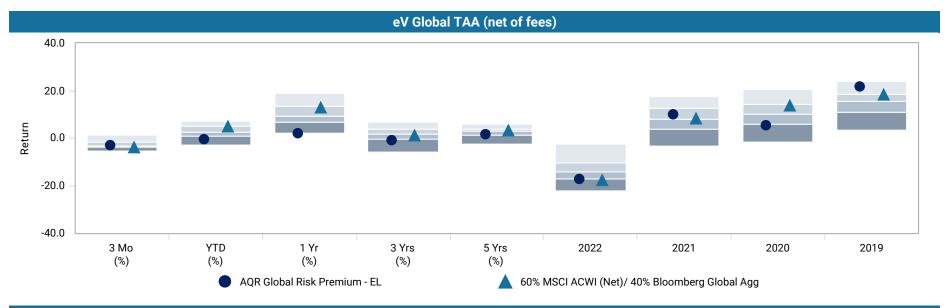
3 Years Ending S	3 Years Ending September 30, 2023												
	Return	Standard Deviation	Sharpe Ratio										
BlackRock Real Estate Securities	6.0 (10)	21.3 (91)	0.3 (11)										
Dow Jones U.S. Select RESI	6.1 (7)	21.3 (91)	0.3 (9)										
eV US REIT Median	3.9	20.3	0.2										
Population	57	57	57										

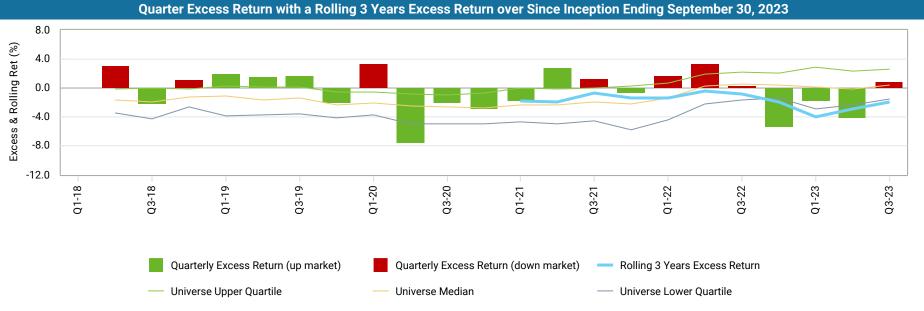
5 Years Ending S	5 Years Ending September 30, 2023												
	Return	Standard Deviation	Sharpe Ratio										
BlackRock Real Estate Securities	1.5 (84)	21.4 (89)	0.1 (83)										
Dow Jones U.S. Select RESI	1.6 (84)	21.4 (89)	0.1 (83)										
eV US REIT Median	3.6	20.0	0.2										
Population	55	55	55										



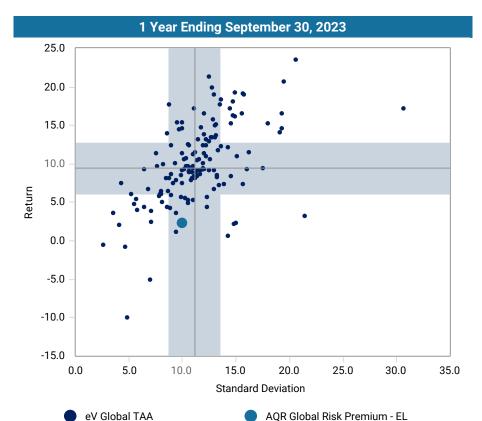


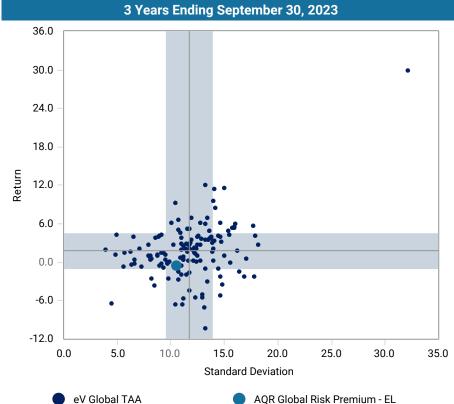
AQR GLOBAL RISK PREMIUM - EL









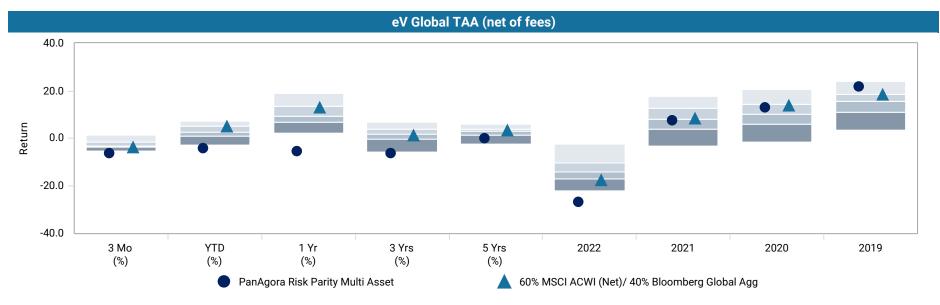


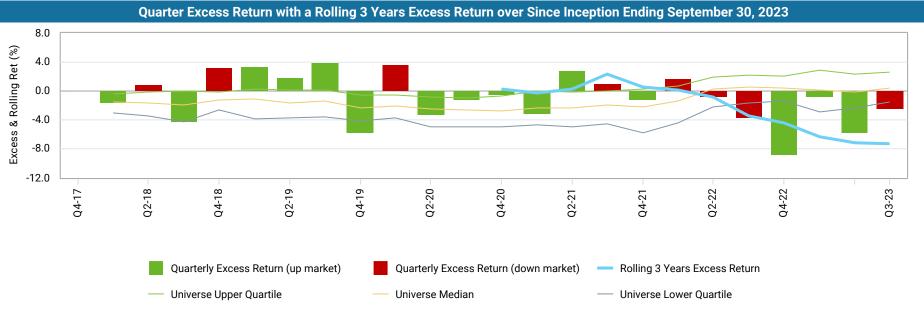
1 Year Ending September 30, 2023													
	Return	Standard Deviation	Sharpe Ratio										
AQR Global Risk Premium - EL	2.4 (95)	10.0 (31)	-0.2 (95)										
60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg	13.2 (28)	12.1 (62)	0.7 (25)										
eV Global TAA Median	9.4	11.1	0.5										
Population	145	145	145										

3 Years Ending September 30, 2023													
	Return	Standard Deviation	Sharpe Ratio										
AQR Global Risk Premium - EL	-0.6 (79)	10.5 (29)	-0.2 (81)										
60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg	1.3 (56)	12.8 (63)	0.0 (53)										
eV Global TAA Median	1.8	11.7	0.1										
Population	142	142	142										

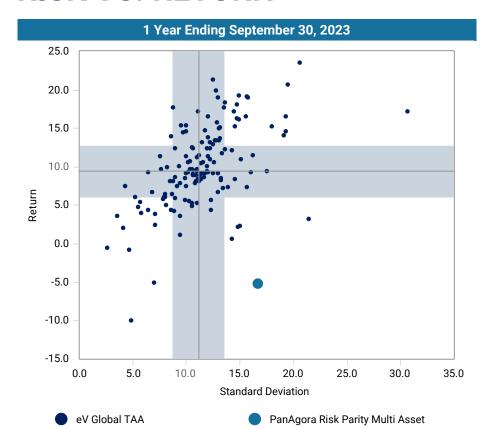


PANAGORA RISK PARITY MULTI ASSET











1 Year Ending September	1 Year Ending September 30, 2023												
	Return	Standard Deviation	Sharpe Ratio										
PanAgora Risk Parity Multi Asset	-5.2 (100)	16.6 (93)	-0.5 (98)										
60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg	13.2 (28)	12.1 (62)	0.7 (25)										
eV Global TAA Median	9.4	11.1	0.5										
Population	145	145	145										

3 Years Ending September 30, 2023												
	Return	Standard Deviation	Sharpe Ratio									
PanAgora Risk Parity Multi Asset	-6.0 (97)	15.1 (88)	-0.4 (92)									
60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg	1.3 (56)	12.8 (63)	0.0 (53)									
eV Global TAA Median	1.8	11.7	0.1									
Population	142	142	142									





NOTES

- All performance is shown net of investment management fees.
- Performance history is provided by Verus through June 2020. As of July 1, 2020 performance is calculated and reported by NEPC.
- Policy Index history:
 - Inception 6/30/2017: 14.4% Russell 1000 Value, 11.3% Russell 1000 Growth, 4.8% S&P 500, 4% Russell 2000 Value, 3.7% Russell 2000 Growth, 18% MSCI ACWI ex USA Gross, 29.8%Bloomberg US Aggregate TR, 3.5% DJ US Select RESI TR USD, 7.5% 9% Annual, 3% CPI + 4%
 - **7/1/2017 8/31/2018:** 18.5% Russell 1000, 5.5% Russell 2000, 24% MSCI ACWI ex USA Gross, 19% Bloomberg US Govt/Credit 1-3 Yr. TR, 1% FTSE T-Bill 1 Month TR, 3% Bloomberg US Treasury 7-10 Yr TR, 7.7% NCREIF Property Index, 1.7% NCREIF Property Index +2%, 0.6% CPI + 5%, 5% Bloomberg US High Yield + 2%, 14% 60% MSCI ACWI Net/40% Bloomberg Global Aggregate
 - 9/1/2018 5/30/2019: 10% Russell 1000, 3% Russell 2000, 6% Russell 3000 +3%, 27% MSCI ACWI ex USA Gross, 20% Bloomberg US Govt/Credit 1-3 Yr. TR, 1% FTSE T-Bill 1 Month TR, 3%Bloomberg US Treasury 7-10 Yr TR, 5% NCREIF Property Index, 5% NCREIF Property Index +2%, 1% CPI + 5%, 6% S&P/LSTA Leveraged Loan Index+2%, 13% 60% MSCI ACWI Net/40% Bloomberg Global Aggregate
 - 6/1/2019 6/30/2020: 14% Russell 1000, 3% Russell 2000, 6% Russell 3000 + 3%, 23% MSCI ACWI ex-USA, 19% Bloomberg US Gov't/Credit 1-3 Yr, 1% Citi 1 Month T-Bills, 3% Bloomberg US Treasury 7-10 Yr, 5% NCREIF Property, 5% NCREIF Property +2%, 2% CPI +5%, 6% S&P/LSTA Leveraged Loan Index + 2%, 13% 60% MSCI ACWI / 40% Bloomberg Global Aggregate
 - **7/1/2020 12/31/2020**: 14% Russell 1000, 3% Russell 2000, 6% Russell 3000 + 3%, 23% MSCI ACWI ex-USA, 8% Bloomberg US Gov't/Credit 1-3 Yr, 1% Citi 1 Month T-Bills, 3% Bloomberg US Treasury 7-10 Yr, 5% NCREIF Property, 5% NCREIF Property +2%, 2% CPI +5%, 6% S&P/LSTA Leveraged Loan Index + 2%, 13% 60% MSCI ACWI / 40% Bloomberg Global Aggregate, 11% Bloomberg US Intermediate.
 - 1/1/2021 06/30/2021: 16% Russell 1000, 3.5% Russell 2000, 6% Russell 3000 + 3%, 23% MSCI ACWI ex-USA, 8% Bloomberg US Gov't/Credit 1-3 Yr, 1% Citi 1 Month T-Bills, 5% Bloomberg US Treasury 7-10 Yr, 6% NCREIF Property, 5% NCREIF Property +2%, 2% CPI +5%, 4.5% S&P/LSTA Leveraged Loan Index + 2%, 13% 60% MSCI ACWI / 40% Bloomberg Global Aggregate, 7%Bloomberg US Intermediate.
 - 07/01/2021 06/30/2023: 16% Russell 1000, 4% Russell 2000, 5% Russell 3000 + 3%, 20% MSCI ACWI ex USA Gross, 6.5% NCREIF Property Index, 6% NCREIF Property Index + 2%, 7.5% CPI + 5% (Unadjusted), 8% S&P/LSTA Leveraged Loan Index +2%, 6% Bloomberg US Treasury 7-10 Yr TR, 10% 60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg, 3% 30 Day T-Bill + 4%, 1% FTSE T-Bill 1 Month TR, 7% Bloomberg US Govt/Credit Int TR.
 - **07/01/2023 Present:** 16% Russell 1000, 4% Russell 2000, 5% Russell 3000 + 3%, 20% MSCI ACWI ex USA Gross, 6.5% NCREIF Property Index, 6% NCREIF Property Index + 2%, 7.5% CPI + 5% 1 Qtr Lag (Unadjusted), 8% S&P/LSTA Leveraged Loan Index +2%, 6% Bloomberg US Treasury 7-10 Yr TR, 10% 60% MSCI ACWI (Net)/ 40% Bloomberg Global Agg, 3% 30 Day T-Bill + 4%, 1% FTSE T-Bill 1 Month TR, 7% Bloomberg US Govt/Credit Int TR.
- Starting July 1, 2020, the small Capital Prospects transition cash balance is moved from the Cash composite to the Capital Prospects account. Historical performance for Capital Prospects, US Small, US Equities, Growth Sub-Portfolio, Cash, and Liquidity Sub-Portfolio prior to July 1, 2020 reflects performance of these composites before this change.
- Private Equity investments are valued one guarter lagged and adjusted for capital calls and distributions between guarter-end months.
- Value-Add Real Estate managers are valued quarterly adjusted for current cash flows.
- Starting July 1, 2023, MS Infrastructure Partners II, Northern Infrastructure Fund, Palistar Communications Infrastructure Fund II, JP Morgan IF Hedged LP, and IFM Global Infrastructure Fund are valued one quarter lagged and adjusted for capital calls and distributions between quarter-end months. Northern Trust Infrastructure Fund's benchmark of 67% STOXX Global Broad Infra/33% Bloomberg US TIPS is valued one quarter lagged.
- Fiscal Year End Date June 30.



DISCLAIMERS & DISCLOSURES

Past performance is no guarantee of future results.

Returns for pooled funds, e.g. mutual funds and collective investment trusts, are collected from third parties; they are not generally calculated by NEPC. Returns for separate accounts, with some exceptions, are calculated by NEPC. Returns are reported net of manager fees unless otherwise noted.

A "since inception" return, if reported, begins with the first full month after funding, although actual inception dates (e.g. the middle of a month) and the timing of cash flows are taken into account in Composite return calculations.

NEPC's preferred data source is the plan's custodian bank or record-keeper. If data cannot be obtained from one of the preferred data sources, data provided by investment managers may be used. Information on market indices and security characteristics is received from additional providers. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within. In addition, some index returns displayed in this report or used in calculation of a policy index, allocation index or other custom benchmark may be preliminary and subject to change.

All investments carry some level of risk. Diversification and other asset allocation techniques are not guaranteed to ensure profit or protect against losses.

The opinions presented herein represent the good faith views of NEPC as of the date of this presentation and are subject to change at any time. Neither fund performance nor universe rankings contained in this report should be considered a recommendation by NEPC.

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Source of private fund performance benchmark data: Cambridge Associates, via Refinitiv







QUARTERLY PERFORMANCE REPORT

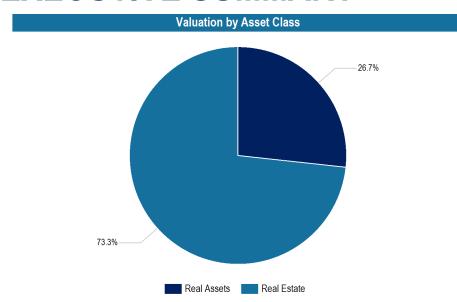
STANISLAUS COUNTY EMPLOYEES'
RETIREMENT ASSOCIATION

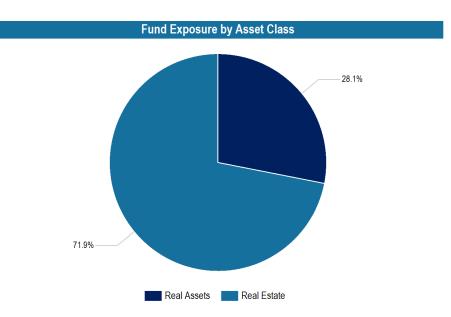


JUNE 30, 2023

Dan Hennessy, CFA, CAIA, Senior Consultant Sam Austin, Partner John Tolar, Consulting Analyst

Stanislaus County ERA **EXECUTIVE SUMMARY**





	Investments \$							Trailing Period Performance (IRR)						
Asset Class	Commitment	Cumulative Contributions	Unfunded Commitment	Valuation	(QTR)	(YTD)	(1 YR)	(3 YRS)	(5 YRS)	(10 YRS)	SI IRR	DPI	TVPI	
Total Real Assets	\$150,000,000	\$136,729,382	\$13,270,618	\$116,502,610	2.02%	2.35%	9.65%	9.55%	9.39%		9.74%	0.37	1.22	
Total Real Estate	\$289,000,000	\$276,109,585	\$12,890,415	\$319,480,361	-1.56%	-2.16%	-3.09%	7.93%	7.40%		8.12%	0.20	1.36	
Total	\$439,000,000	\$412,838,967	\$26,161,033	\$435,982,971	-0.63%	-1.01%	0.03%	8.24%	7.77%		8.44%	0.26	1.31	



Stanislaus County ERA ANALYSIS BY STRATEGY

\$213,000,000

\$439,000,000

\$12,890,415

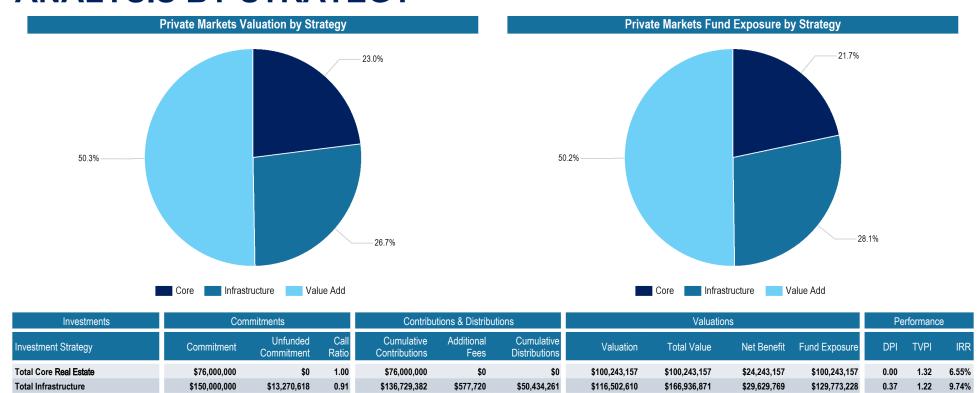
\$26,161,033

0.94

0.94

\$200,109,585

\$412,838,967



-\$138.657

\$439,063

\$55,725,734

\$106,159,995

\$219,237,204

\$435,982,971

\$274,962,938

\$542,142,965

\$74,992,010

\$128,864,936

\$232,127,619

\$462,144,004

0.28

0.26

1.38

1.31

8.80%

8.44%



Total Value Add Real Estate

Total

Stanislaus County ERA ANALYSIS BY LIFECYCLE

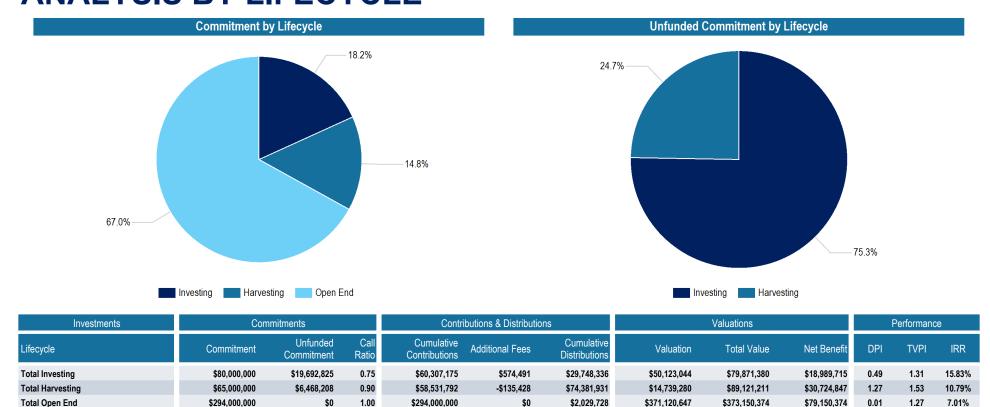
\$439,000,000

\$0

0.94

\$412,838,967

\$26,161,033



\$439,063

\$106,159,995



Total

1.27

1.31

0.26

7.01%

8.44%

\$373,150,374

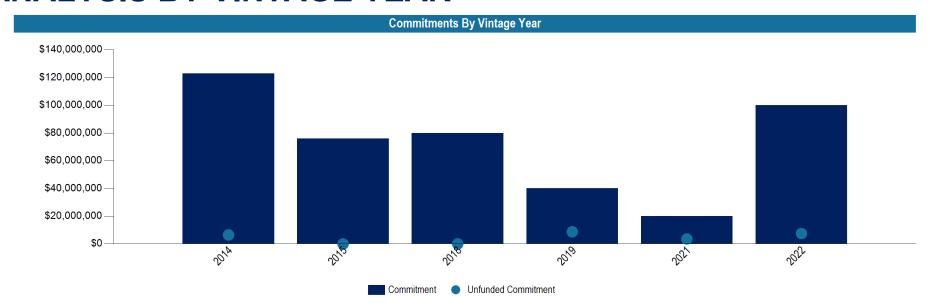
\$542,142,965

\$128,864,936

\$435,982,971

Stanislaus County ERA

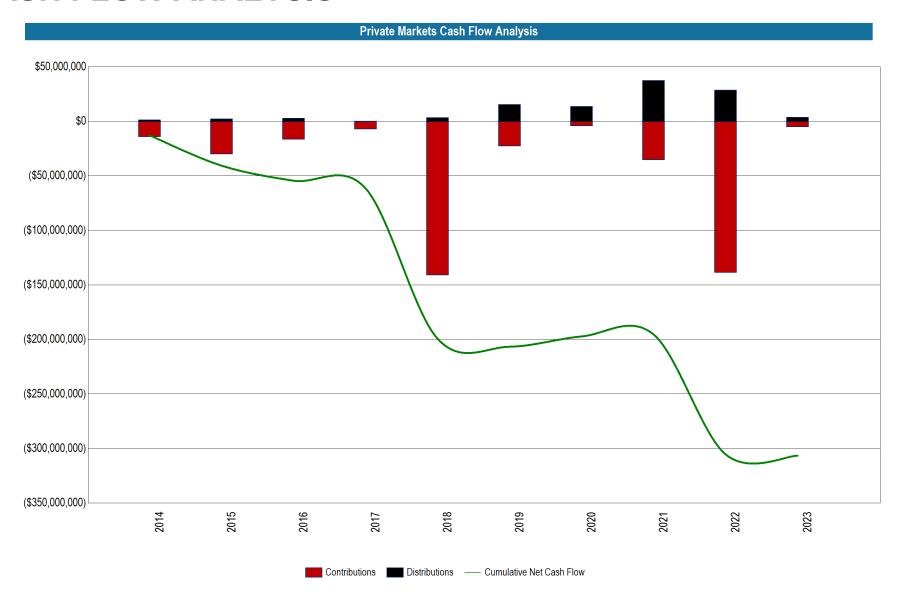
ANALYSIS BY VINTAGE YEAR



Investments	Com	nmitments		Contributions & Distributions				Performance				
Vintage Year	Commitment	Unfunded Commitment	Call Ratio	Cumulative Contributions	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
Total 2014	\$123,000,000	\$6,468,208	0.95	\$116,531,792	-\$135,428	\$76,411,659	\$99,390,173	\$175,801,832	\$59,405,468	0.66	1.51	9.25%
Total 2015	\$76,000,000	\$0	1.00	\$76,000,000	\$0	\$0	\$100,243,157	\$100,243,157	\$24,243,157	0.00	1.32	6.55%
Total 2018	\$80,000,000	\$0	1.00	\$80,000,000	\$0	\$0	\$97,721,495	\$97,721,495	\$17,721,495	0.00	1.22	5.72%
Total 2019	\$40,000,000	\$8,694,154	0.78	\$31,305,846	\$70,472	\$29,748,336	\$18,712,031	\$48,460,367	\$17,084,049	0.95	1.54	18.74%
Total 2021	\$20,000,000	\$3,532,245	0.82	\$16,467,755	-\$73,701	\$0	\$17,041,270	\$17,041,270	\$647,216	0.00	1.04	3.32%
Total 2022	\$100,000,000	\$7,466,426	0.93	\$92,533,574	\$577,720	\$0	\$102,874,845	\$102,874,845	\$9,763,551	0.00	1.10	9.99%
Total	\$439,000,000	\$26,161,033	0.94	\$412,838,967	\$439,063	\$106,159,995	\$435,982,971	\$542,142,965	\$128,864,936	0.26	1.31	8.44%



Stanislaus County ERA CASH FLOW ANALYSIS





Stanislaus County ERA RETURN SUMMARY

Investments			Trailing Period Returns (IRR) %							Performance			
Investment Name	Vintage Year	Commitment	(Qtr)	(YTD)	(1 Yr)	(3 Yrs)	(5 Yrs)	(10 Yrs)	SI IRR	Prim PME (Direct Alpha)	PME (Kaplan Schoar)	PME Benchmark	
Real Assets													
IFM Global Infrastructure (US), L.P.	2022	\$50,000,000	2.53%	5.16%					9.66%	9.83%	1.10	S&P Global Infrastructure TR USD	
JP Morgan IIF Hedged, L.P.	2022	\$30,000,000	1.45%	-0.35%	14.73%				9.71%	13.19%	1.17	S&P Global Infrastructure TR USD	
North Haven Infrastructure Partners II, L.P.	2014	\$50,000,000	-0.38%	-2.91%	0.73%	9.10%	9.09%		9.66%	4.75%	1.15	S&P Global Infrastructure TR USD	
Palistar Communications Infrastructure Fund II, L.P.	2022	\$20,000,000	3.86%	3.81%	9.37%				8.70%	4.81%	1.05	S&P Global Infrastructure TR USD	
Total Real Assets		\$150,000,000	2.02%	2.35%	9.65%	9.55%	9.39%		9.74%	6.19%	1.13		
Real Estate													
American Strategic Value Realty Fund, L.P.	2014	\$58,000,000	-2.22%	-4.58%	-6.52%	7.44%	7.03%		7.90%	-14.67%	0.46	FTSE NAREIT Equity REIT	
Grandview I-A, L.P.	2019	\$40,000,000	-11.17%	-11.62%	-14.51%	18.19%			18.74%	-14.19%	0.63	FTSE NAREIT Equity REIT	
Grandview II, L.P.	2021	\$20,000,000	-0.52%	-0.86%	5.04%				3.32%	11.41%	1.10	FTSE NAREIT Equity REIT	
Greenfield Acquisition Partners VII, L.P.	2014	\$15,000,000	2.57%	4.72%	-0.30%	19.36%	12.25%		13.22%	33.92%	1.71	FTSE NAREIT Equity REIT	
PGIM Real Estate U.S. Debt Fund, L.P.	2018	\$80,000,000	1.83%	3.52%	6.88%	5.88%			5.72%	-39.79%	0.10	FTSE NAREIT Equity REIT	
Prime Property Fund, LLC	2015	\$76,000,000	-2.24%	-3.45%	-7.07%	7.15%	6.09%		6.55%	-41.38%	0.08	FTSE NAREIT Equity REIT	
Total Real Estate		\$289,000,000	-1.56%	-2.16%	-3.09%	7.93%	7.40%		8.12%	-34.81%	0.18		
Total		\$439,000,000	-0.63%	-1.01%	0.03%	8.24%	7.77%		8.44%	-31.74%	0.25		



Stanislaus County ERA ANALYSIS BY FUND

Investments		Commitments		Contribu	itions & Distribut	tions		Valuations		Pe	rforman	ce
Investment Name	Vintage Year	Commitment	Unfunded Commitment	Paid In Capital	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
Real Assets												
IFM Global Infrastructure (US), L.P.	2022	\$50,000,000	\$0	\$50,000,000	\$0	\$0	\$54,830,313	\$54,830,313	\$4,830,313	0.00	1.10	9.66%
JP Morgan IIF Hedged, L.P.	2022	\$30,000,000	\$0	\$30,000,000	\$0	\$0	\$33,674,788	\$33,674,788	\$3,674,788	0.00	1.12	9.71%
North Haven Infrastructure Partners II, L.P.	2014	\$50,000,000	\$5,804,192	\$44,195,808	\$0	\$50,434,261	\$13,627,765	\$64,062,026	\$19,866,218	1.14	1.45	9.66%
Palistar Communications Infrastructure Fund II, L.P.	2022	\$20,000,000	\$7,466,426	\$12,533,574	\$577,720	\$0	\$14,369,743	\$14,369,743	\$1,258,450	0.00	1.10	8.70%
Total Real Assets		\$150,000,000	\$13,270,618	\$136,729,382	\$577,720	\$50,434,261	\$116,502,610	\$166,936,871	\$29,629,769	0.37	1.22	9.74%
Real Estate												
American Strategic Value Realty Fund, L.P.	2014	\$58,000,000	\$0	\$58,000,000	\$0	\$2,029,728	\$84,650,893	\$86,680,621	\$28,680,621	0.03	1.49	7.90%
Grandview I-A, L.P.	2019	\$40,000,000	\$8,694,154	\$31,305,846	\$70,472	\$29,748,336	\$18,712,031	\$48,460,367	\$17,084,049	0.95	1.54	18.74%
Grandview II, L.P.	2021	\$20,000,000	\$3,532,245	\$16,467,755	-\$73,701	\$0	\$17,041,270	\$17,041,270	\$647,216	0.00	1.04	3.32%
Greenfield Acquisition Partners VII, L.P.	2014	\$15,000,000	\$664,016	\$14,335,984	-\$135,428	\$23,947,670	\$1,111,515	\$25,059,185	\$10,858,629	1.69	1.76	13.22%
PGIM Real Estate U.S. Debt Fund, L.P.	2018	\$80,000,000	\$0	\$80,000,000	\$0	\$0	\$97,721,495	\$97,721,495	\$17,721,495	0.00	1.22	5.72%
Prime Property Fund, LLC	2015	\$76,000,000	\$0	\$76,000,000	\$0	\$0	\$100,243,157	\$100,243,157	\$24,243,157	0.00	1.32	6.55%
Total Real Estate		\$289,000,000	\$12,890,415	\$276,109,585	-\$138,657	\$55,725,734	\$319,480,361	\$375,206,095	\$99,235,167	0.20	1.36	8.12%
Total		\$439,000,000	\$26,161,033	\$412,838,967	\$439,063	\$106,159,995	\$435,982,971	\$542,142,965	\$128,864,936	0.26	1.31	8.44%



Stanislaus County ERA ANALYSIS BY LIFECYCLE

Investments		Commitments		Contribu	itions & Distribut	tions		Valuations		P	erforma	nce
Investment Name	Vintage Year	Commitment	Unfunded Commitment	Paid In Capital	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
Investing												
Grandview I-A, L.P.	2019	\$40,000,000	\$8,694,154	\$31,305,846	\$70,472	\$29,748,336	\$18,712,031	\$48,460,367	\$17,084,049	0.95	1.54	18.74%
Grandview II, L.P.	2021	\$20,000,000	\$3,532,245	\$16,467,755	-\$73,701	\$0	\$17,041,270	\$17,041,270	\$647,216	0.00	1.04	3.32%
Palistar Communications Infrastructure Fund II, L.P.	2022	\$20,000,000	\$7,466,426	\$12,533,574	\$577,720	\$0	\$14,369,743	\$14,369,743	\$1,258,450	0.00	1.10	8.70%
Total Investing		\$80,000,000	\$19,692,825	\$60,307,175	\$574,491	\$29,748,336	\$50,123,044	\$79,871,380	\$18,989,715	0.49	1.31	15.83%
Harvesting												
Greenfield Acquisition Partners VII, L.P.	2014	\$15,000,000	\$664,016	\$14,335,984	-\$135,428	\$23,947,670	\$1,111,515	\$25,059,185	\$10,858,629	1.69	1.76	13.22%
North Haven Infrastructure Partners II, L.P.	2014	\$50,000,000	\$5,804,192	\$44,195,808	\$0	\$50,434,261	\$13,627,765	\$64,062,026	\$19,866,218	1.14	1.45	9.66%
Total Harvesting		\$65,000,000	\$6,468,208	\$58,531,792	-\$135,428	\$74,381,931	\$14,739,280	\$89,121,211	\$30,724,847	1.27	1.53	10.79%
Open End												
American Strategic Value Realty Fund, L.P.	2014	\$58,000,000	\$0	\$58,000,000	\$0	\$2,029,728	\$84,650,893	\$86,680,621	\$28,680,621	0.03	1.49	7.90%
IFM Global Infrastructure (US), L.P.	2022	\$50,000,000	\$0	\$50,000,000	\$0	\$0	\$54,830,313	\$54,830,313	\$4,830,313	0.00	1.10	9.66%
JP Morgan IIF Hedged, L.P.	2022	\$30,000,000	\$0	\$30,000,000	\$0	\$0	\$33,674,788	\$33,674,788	\$3,674,788	0.00	1.12	9.71%
PGIM Real Estate U.S. Debt Fund, L.P.	2018	\$80,000,000	\$0	\$80,000,000	\$0	\$0	\$97,721,495	\$97,721,495	\$17,721,495	0.00	1.22	5.72%
Prime Property Fund, LLC	2015	\$76,000,000	\$0	\$76,000,000	\$0	\$0	\$100,243,157	\$100,243,157	\$24,243,157	0.00	1.32	6.55%
Total Open End		\$294,000,000	\$0	\$294,000,000	\$0	\$2,029,728	\$371,120,647	\$373,150,374	\$79,150,374	0.01	1.27	7.01%
Total		\$439,000,000	\$26,161,033	\$412,838,967	\$439,063	\$106,159,995	\$435,982,971	\$542,142,965	\$128,864,936	0.26	1.31	8.44%



Stanislaus County ERA ANALYSIS BY VINTAGE YEAR

Investments		Commitments		Contributions & Distributions			Valuations			Performance		
Investment Name	Vintage Year	Commitment	Unfunded Commitment	Paid In Capital	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
2014												
American Strategic Value Realty Fund, L.P.	2014	\$58,000,000	\$0	\$58,000,000	\$0	\$2,029,728	\$84,650,893	\$86,680,621	\$28,680,621	0.03	1.49	7.90%
Greenfield Acquisition Partners VII, L.P.	2014	\$15,000,000	\$664,016	\$14,335,984	-\$135,428	\$23,947,670	\$1,111,515	\$25,059,185	\$10,858,629	1.69	1.76	13.22%
North Haven Infrastructure Partners II, L.P.	2014	\$50,000,000	\$5,804,192	\$44,195,808	\$0	\$50,434,261	\$13,627,765	\$64,062,026	\$19,866,218	1.14	1.45	9.66%
Total 2014		\$123,000,000	\$6,468,208	\$116,531,792	-\$135,428	\$76,411,659	\$99,390,173	\$175,801,832	\$59,405,468	0.66	1.51	9.25%
2015												
Prime Property Fund, LLC	2015	\$76,000,000	\$0	\$76,000,000	\$0	\$0	\$100,243,157	\$100,243,157	\$24,243,157	0.00	1.32	6.55%
Total 2015		\$76,000,000	\$0	\$76,000,000	\$0	\$0	\$100,243,157	\$100,243,157	\$24,243,157	0.00	1.32	6.55%
2018												
PGIM Real Estate U.S. Debt Fund, L.P.	2018	\$80,000,000	\$0	\$80,000,000	\$0	\$0	\$97,721,495	\$97,721,495	\$17,721,495	0.00	1.22	5.72%
Total 2018		\$80,000,000	\$0	\$80,000,000	\$0	\$0	\$97,721,495	\$97,721,495	\$17,721,495	0.00	1.22	5.72%
2019												
Grandview I-A, L.P.	2019	\$40,000,000	\$8,694,154	\$31,305,846	\$70,472	\$29,748,336	\$18,712,031	\$48,460,367	\$17,084,049	0.95	1.54	18.74%
Total 2019		\$40,000,000	\$8,694,154	\$31,305,846	\$70,472	\$29,748,336	\$18,712,031	\$48,460,367	\$17,084,049	0.95	1.54	18.74%
2021												
Grandview II, L.P.	2021	\$20,000,000	\$3,532,245	\$16,467,755	-\$73,701	\$0	\$17,041,270	\$17,041,270	\$647,216	0.00	1.04	3.32%
Total 2021		\$20,000,000	\$3,532,245	\$16,467,755	-\$73,701	\$0	\$17,041,270	\$17,041,270	\$647,216	0.00	1.04	3.32%
2022												
IFM Global Infrastructure (US), L.P.	2022	\$50,000,000	\$0	\$50,000,000	\$0	\$0	\$54,830,313	\$54,830,313	\$4,830,313	0.00	1.10	9.66%
JP Morgan IIF Hedged, L.P.	2022	\$30,000,000	\$0	\$30,000,000	\$0	\$0	\$33,674,788	\$33,674,788	\$3,674,788	0.00	1.12	9.71%
Palistar Communications Infrastructure Fund II, L.P.	2022	\$20,000,000	\$7,466,426	\$12,533,574	\$577,720	\$0	\$14,369,743	\$14,369,743	\$1,258,450	0.00	1.10	8.70%
Total 2022		\$100,000,000	\$7,466,426	\$92,533,574	\$577,720	\$0	\$102,874,845	\$102,874,845	\$9,763,551	0.00	1.10	9.99%
Total		\$439,000,000	\$26,161,033	\$412,838,967	\$439,063	\$106,159,995	\$435,982,971	\$542,142,965	\$128,864,936	0.26	1.31	8.44%



Stanislaus County ERA

ANALYSIS BY INVESTMENT STRATEGY

Investments		Commitments		Contributions & Distributions			Valuations			Performance		
Investment Name	Vintage Year	Commitment	Unfunded Commitment	Paid In Capital	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
Core Real Estate												
Prime Property Fund, LLC	2015	\$76,000,000	\$0	\$76,000,000	\$0	\$0	\$100,243,157	\$100,243,157	\$24,243,157	0.00	1.32	6.55%
Total Core Real Estate		\$76,000,000	\$0	\$76,000,000	\$0	\$0	\$100,243,157	\$100,243,157	\$24,243,157	0.00	1.32	6.55%
Infrastructure												
IFM Global Infrastructure (US), L.P.	2022	\$50,000,000	\$0	\$50,000,000	\$0	\$0	\$54,830,313	\$54,830,313	\$4,830,313	0.00	1.10	9.66%
JP Morgan IIF Hedged, L.P.	2022	\$30,000,000	\$0	\$30,000,000	\$0	\$0	\$33,674,788	\$33,674,788	\$3,674,788	0.00	1.12	9.71%
North Haven Infrastructure Partners II, L.P.	2014	\$50,000,000	\$5,804,192	\$44,195,808	\$0	\$50,434,261	\$13,627,765	\$64,062,026	\$19,866,218	1.14	1.45	9.66%
Palistar Communications Infrastructure Fund II, L.P.	2022	\$20,000,000	\$7,466,426	\$12,533,574	\$577,720	\$0	\$14,369,743	\$14,369,743	\$1,258,450	0.00	1.10	8.70%
Total Infrastructure		\$150,000,000	\$13,270,618	\$136,729,382	\$577,720	\$50,434,261	\$116,502,610	\$166,936,871	\$29,629,769	0.37	1.22	9.74%
Value Add Real Estate												
American Strategic Value Realty Fund, L.P.	2014	\$58,000,000	\$0	\$58,000,000	\$0	\$2,029,728	\$84,650,893	\$86,680,621	\$28,680,621	0.03	1.49	7.90%
Grandview I-A, L.P.	2019	\$40,000,000	\$8,694,154	\$31,305,846	\$70,472	\$29,748,336	\$18,712,031	\$48,460,367	\$17,084,049	0.95	1.54	18.74%
Grandview II, L.P.	2021	\$20,000,000	\$3,532,245	\$16,467,755	-\$73,701	\$0	\$17,041,270	\$17,041,270	\$647,216	0.00	1.04	3.32%
Greenfield Acquisition Partners VII, L.P.	2014	\$15,000,000	\$664,016	\$14,335,984	-\$135,428	\$23,947,670	\$1,111,515	\$25,059,185	\$10,858,629	1.69	1.76	13.22%
PGIM Real Estate U.S. Debt Fund, L.P.	2018	\$80,000,000	\$0	\$80,000,000	\$0	\$0	\$97,721,495	\$97,721,495	\$17,721,495	0.00	1.22	5.72%
Total Value Add Real Estate		\$213,000,000	\$12,890,415	\$200,109,585	-\$138,657	\$55,725,734	\$219,237,204	\$274,962,938	\$74,992,010	0.28	1.38	8.80%
Total		\$439,000,000	\$26,161,033	\$412,838,967	\$439,063	\$106,159,995	\$435,982,971	\$542,142,965	\$128,864,936	0.26	1.31	8.44%



Stanislaus County ERA **QUARTERLY TRANSACTION SUMMARY**

Fund Name	Month Ended	Capital Call	Additional Fee Temp Return of Capital	Distribution	Net Cash Flow
Grandview I-A, L.P.	6/30/2023	955,861		-2,731,034	-1,775,173
Total: Grandview I-A, L.P.		955,861		-2,731,034	-1,775,173
Grandview II, L.P.	4/30/2023		-27,416		-27,416
	5/31/2023	301,578			301,578
	6/30/2023	309,913			309,913
Total: Grandview II, L.P.		611,491	-27,416		584,075
Greenfield Acquisition Partners VII, L.P.	4/30/2023			-219,638	-219,638
	6/30/2023			-47,065	-47,065
Total: Greenfield Acquisition Partners VII, L.P.				-266,703	-266,703
Palistar Communications Infrastructure Fund II, L.P.	4/30/2023	1,496,224			1,496,224
Total: Palistar Communications Infrastructure Fund II, L.P.		1,496,224			1,496,224
Grand Total		3,063,576	-27,416	-2,997,737	38,423





GLOSSARY OF TERMS

- Commitment Amount The amount an investor has committed to invest with the General Partner
- · Paid In Capital The amount an investor has contributed for investments and management fees
- Capital to be Funded The remaining amount an investor contractually has left to fund its commitments
- Additional Fees Fees that are outside the capital commitment, also includes interest paid/received due from subsequent closings of the fund
- Cumulative Distributions The amount an investor has received from realized and partially realized investments
- Valuation Sum of the fair market value of all investments plus cash
- Call Ratio Calculated by dividing Amount Funded by Capital Committed
- DPI Ratio Calculated by dividing Amount Distributed by Amount Funded
- Market Exposure Calculated by adding Reported Value plus Unfunded Commitments
- Total Value Calculated by adding Amount Distributed and Reported Value. Represents the total amount an investor should expect to receive from their investments
- Net Benefit Calculated by subtracting Total Value by Capital to be Funded plus Additional Fees
- Total Value to Paid In Capital Ratio Calculated by dividing Total Value by Amount Funded. Represents the multiple of the overall cash invested that an investor is expected to receive
- IRR The calculation of the IRR (Internal Rate of Return) takes into consideration the timing of cash contributions and distributions to and from the partnerships, the length of time the investments have been held and the sum of the Reported Value
- Index Comparison Method (ICM) represents the hypothetical IRR of a private investment program that is computed by assuming the fund flows were invested in and out of a publicly traded index. The resulting hypothetical market value of the program is then used with the program's actual cash flows to compute a hypothetical IRR. This hypothetical IRR can be compared with the actual IRR to determine whether the private investment program outperformed the publicly traded index
- Valuation ICM The valuation equivalent that ICM calculates for the public market is called valuation ICM
- **KS PME** The Kaplan Schoar Public Markets Equivalent is a ratio of the future value of all distributions divided by the future value of all contributions using the index return as the discount rate. The ending valuation is treated as a distribution in this method
- IRR ICM The IRR equivalent that ICM calculates for the public market is called IRR ICM



Information Disclaimer

- Past performance is no guarantee of future results.
- All investments carry some level of risk. Diversification and other asset allocation techniques are not guaranteed to ensure profit or protect against losses.
- NEPC's source for portfolio pricing, calculation of accruals, and transaction information is the plan's custodian bank.
 Information on market indices and security characteristics is received from other sources external to NEPC. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within.
- Some index returns displayed in this report or used in calculation of a policy, allocation or custom benchmark may be preliminary and subject to change.
- This report is provided as a management aid for the client's internal use only. Information contained in this report does not constitute a recommendation by NEPC.
- This report may contain confidential or proprietary information and may not be copied or redistributed to any party not legally entitled to receive it.

Reporting Methodology

- The client's custodian bank is NEPC's preferred data source unless otherwise directed. NEPC generally reconciles custodian data to manager data. If the custodian cannot provide accurate data, manager data may be used.
- Trailing time period returns are determined by geometrically linking the holding period returns, from the first full month after inception to the report date. Rates of return are annualized when the time period is longer than a year. Performance is presented gross and/or net of manager fees as indicated on each page.
- For managers funded in the middle of a month, the "since inception" return will start with the first full month, although actual inception dates and cash flows are taken into account in all Composite calculations.
- This report may contain forward-looking statements that are based on NEPC's estimates, opinions and beliefs, but NEPC
 cannot guarantee that any plan will achieve its targeted return or meet other goals.





December 12, 2023

Retirement Board Agenda Item

TO: Retirement Board

FROM: Stan Conwell, Retirement Investment Officer

I. SUBJECT: Asset Liability Study: Strategic Asset Allocation

II. ITEM NUMBER: 9.d

III. ITEM TYPE: Discussion and Action

IV. STAFF RECOMMENDATION: Review and adopt one of the three strategic asset allocation mixes presented.

V. ANALYSIS:

Today's agenda item (Attachment 1) is the final part of the asset liability study for StanCERA. Several educational topics were covered at prior meetings to set the stage for discussion and potential adoption of a new strategic asset allocation. Setting the strategic asset allocation is an important investment decision for the Board to consider because it drives the investment returns that impact contribution rates and funded status over the intermediate to long-term.

Staff and NEPC incorporated feedback from the Board to produce a set of potential mixes that are optimized to meet the desired long-term rate of return while assuming a suitable level of risk and diversification. Market conditions have changed considerably since 2020 when the last asset liability study was conducted. In particular, the expected returns on fixed income have increased and this development creates an opportunity to reduce risk while maintaining the necessary rate of return to meet the obligations of the plan. Another important aspect to evaluate when considering allocation changes is scenario testing. Testing each potential asset mix can reveal additional risks that are not always captured by expected volatility.

While Staff and NEPC feel the educational items leading up to today's discussion provide a good foundation for the Board to make a decision, the Board can certainly request additional time to evaluate the options, to explore additional asset classes, or to request more information.

VI. RISK: None

VII. STRATEGIC PLAN: N/A

VIII. ADMINISTRATIVE BUDGET IMPACT: None



ASSET ALLOCATION POLICY OPTIONS

STANISLAUS COUNTY EMPLOYEES' RETIREMENT ASSOCIATION



DECEMBER 12, 2023

Daniel Hennessy, CFA, CAIA, Senior Consultant

EXECUTIVE SUMMARY

The StanCERA board has spent several months evaluating its asset allocation

- September 2023 we reviewed StanCERA's investment objectives and asset allocation, and NEPC presented updated asset class risk/return expectations
- October 2023 NEPC presented an Asset-Liability Study and proposed several asset allocation changes
- After incorporating feedback from the trustees and plan staff, we are now presenting several updated asset allocation mixes for board consideration

StanCERA is already on a path to improved funding levels with its current asset allocation policy

- June 30, 2022 Actuarial Valuation Funded Status: 77.0%
- June 30, 2023 NEPC Funded Status Estimate given 6.8% return: 77.1%
- June 30, 2033 NEPC Funded Status Estimate assuming 6.5% annual return: 89%
- June 30, 2053 NEPC Funded Status Estimate assuming 7.4% annual return: 120%

Our goal is to maintain the investment portfolio's current expected returns with possible asset allocation changes intended to reduce volatility

Lower volatility would lower the risk of unexpected sharp declines in funding status



ORIGINAL RECOMMENDATIONS

The investment objectives of the Investment Program are:

- To provide liquidity to meet retiree benefit payments in a timely manner;
- To produce long-term growth to meet future retiree benefit payments and, if applicable, to close a funding gap over time; and
- To protect the assets against the adverse impacts of rising inflation and investment market volatility.

Our original asset allocation recommendations were:

- No change to the current liquidity sub-portfolio
- Shrink public equity to fund a new 4% public credit allocation
- Shrink core real estate -1.5% and infrastructure -0.5% to expand private credit
- Shrink risk parity to fund a new
 4% TIPS allocation and expand
 liquid absolute return +2%



IMPACT OF THE ORIGINAL RECOMMENDATIONS

Sub-Portfolio	Recommendation	Purpose	Effect
Liquidity	No Change	Current structure is effective	None
Diversifying	Shrink risk parity to fund a new 4% TIPS allocation and expand liquid absolute return +2%	Decrease overall equity risk and volatility	Lower downside risk
Growth (Public)	Shrink public equity to fund a new 4% public credit allocation	Decrease overall equity risk and volatility	Lower downside risk
Growth (Private)	Shrink core real estate -1.5% and infrastructure -0.5% to expand private credit +2%	Increase expected returns	Higher returns

The original private growth recommendation would not have lowered volatility and downside risk, and offered less overall impact to the total portfolio expected risk/returns



PROPOSED ASSET ALLOCATION MIXES

- Mix A (Original Proposal) is NEPC's original recommendation, which changes to the diversifying, public growth, and private growth allocations
- Mix B (Public Market Changes Only) is only the public market changes in NEPC's original recommendation, which are focused on decreasing overall equity risk and volatility
- Mix C (Public Changes, Only More so) is similar to Mix B but makes those public market changes larger to decrease volatility even more



THE PROPOSED MIXES SHARE COMMONALITIES

 All the new mixes are less volatile than the current policy, with slightly higher 10-year expected return, slightly lower 30-year expected return, and better risk/reward as measured by the expected Sharpe Ratio

Less exposure to public equity

 Equities are very volatile, and strong returns in recent years have resulted in higher valuations and lower expected returns in the future

Less exposure to risk parity

 Other risk-diversifying asset classes are less-correlated to equities and therefore are better diversifiers

Greater exposure to liquid absolute return

Very low expected correlation to both equities and to Treasuries

New allocation to public credit

 The return to normal interest rates make fixed income more attractive, and corporate credit offers almost equity-like returns with much less volatility

New allocation to TIPS (Treasury Inflation-Protected Securities)

Additional diversification and inflation protection



ASSET ALLOCATION OPTIONS

EXPECTED RISK/RETURN OF THE CURRENT POLICY AND NEW MIXES

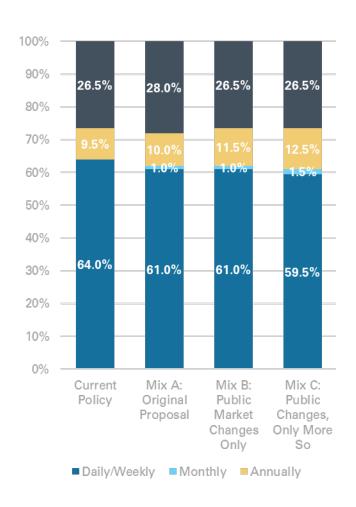
	Current Policy	Mix A: Original Proposal	Mix B: Public Market Changes Only	Mix C: Public Changes, Only More So
Cash	1.0%	1.0%	1.0%	1.0%
Cashflow-Matched Bonds	7.0%	7.0%	7.0%	7.0%
Total Liquidity Sub-Portfolio	8.0%	8.0%	8.0%	8.0%
US Large-Cap Equity	16.0%	14.0%	14.0%	13.0%
US Small/Mid-Cap Equity	4.0%	4.0%	4.0%	4.0%
Non-US Equity	20.0%	18.0%	18.0%	17.0%
Private Equity	5.0%	5.0%	5.0%	5.0%
Public Credit	0.0%	4.0%	4.0%	6.0%
Private Credit	8.0%	10.0%	8.0%	8.0%
Core Real Estate	6.5%	5.0%	6.5%	6.5%
Value-Add Real Estate	6.0%	6.0%	6.0%	6.0%
Infrastructure	7.5%	7.0%	7.5%	7.5%
Total Growth Sub-Portfolio	73.0%	73.0%	73.0%	73.0%
US TIPS	0.0%	4.0%	4.0%	6.0%
US Treasury Bond	6.0%	6.0%	6.0%	7.0%
Risk Parity	10.0%	4.0%	4.0%	0.0%
Liquid Absolute Return	3.0%	5.0%	5.0%	6.0%
Total Risk-Diversifying Sub-Portfolio	19.0%	19.0%	19.0%	19.0%
Expected Return 10 yrs	6.48%	6.57%	6.51%	6.52%
Expected Return 30 yrs	7.37%	7.34%	7.29%	7.22%
Standard Dev	12.1%	11.2%	11.2%	10.7%
Sharpe Ratio (10 years)	0.20	0.23	0.22	0.23
Sharpe Ratio (30 years)	0.33	0.35	0.35	0.36





LIQUIDITY PROFILE

LIQUIDITY OF THE CURRENT POLICY AND NEW MIXES

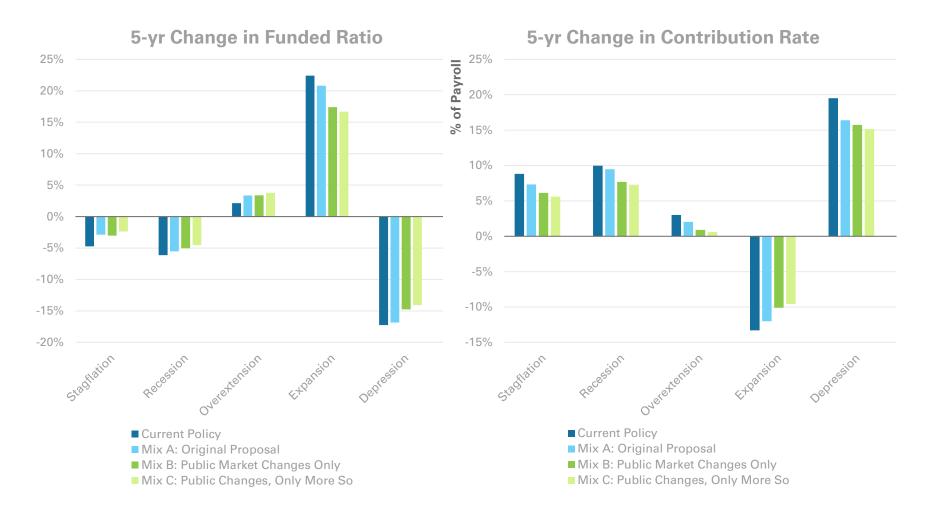


- Mix A increases illiquid allocation by 1.5%, and all mixes reduce daily/weekly liquidity by 2.0-4.5%
- NEPC believes such increase in illiquids and reduction in daily/weekly liquidity would have no material impact on the plan's ability to meet its obligations
- Expected net cash flow of -1.7% of assets on average over the next 10 years is healthy relative to peers
- The Liquidity and Risk-Diversifying buckets are designed to help StanCERA withstand challenging investment periods
- Funding policy would trigger contribution increases if needed, providing an additional backstop to plan liquidity



ECONOMIC SCENARIO ANALYSIS

PROPOSED MIXES IMPROVE OUTCOMES IN MOST SCENARIOS





Notes: Change in funded ratio based on 77.1% starting funded ratio; change in contribution rate based on 33.9% starting contribution rate

STOCHASTIC ANALYSIS

MIXES IMPROVE MEDIAN AND DOWNSIDE OUTCOMES

	Current Policy	Mix A	Mix B	Mix C
50 th Percentile 2033 Funded Status	89.6%	90.1%	89.7%	89.7%
75 th Percentile 2033 Funded Status	108.3%	107.3%	106.9%	105.9%
25 th Percentile 2033 Funded Status	74.7%	76.2%	75.9%	76.5%
Probability of 100% Funded in 2033	34.7%	34.2%	33.5%	32.9%
Funded Status Volatility	8.5%	7.8%	7.7%	7.3%
50 th Percentile FY2035 Contribution Rate	35.2%	34.8%	35.1%	35.2%
75 th Percentile FY2035 Contribution Rate	48.8%	47.5%	47.8%	47.3%
25 th Percentile FY2035 Contribution Rate	19.0%	19.7%	20.1%	21.0%
Probability of >40% Contribution Rate	40.9%	39.3%	40.1%	39.4%
Contribution Rate Volatility	6.2%	5.9%	5.9%	5.7%



Notes: As of June 30; each portfolio mix assumes 10-yr arithmetic mean return and standard deviation under a normal distribution

NEXT STEPS

IF THE BOARD SELECTS A NEW TARGET ASSET ALLOCATION

- Update the Investment Policy to reflect any changes (January 2024)
- Manager recommendations where needed (First Half 2024)
- Implementation of the new policy allocation (2024)





ASSUMPTIONS AND METHODS

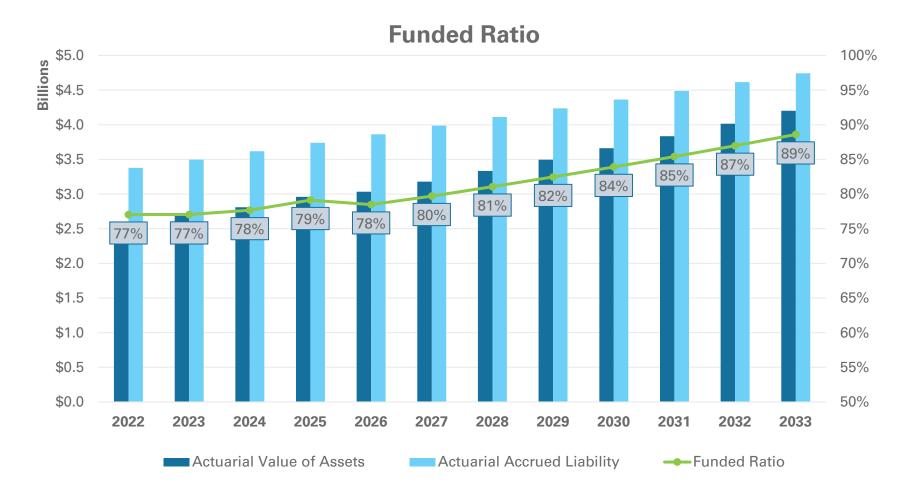
STANISLAUS COUNTY EMPLOYEES' RETIREMENT ASSOCIATION

- Deterministic and stochastic return projections are based on NEPC's 6/30/2023 capital market assumptions
 - Reflects 6.8% return for FY2023 as reported on the 6/30/2023 Flash Report
 - NEPC's 10-year & 30-year return assumptions
- Asset-liability projections follow a roll-forward methodology based on the June 30, 2022 Actuarial Valuation Report produced by Cheiron
 - Benefit payment projections provided by Cheiron
 - Other than those described herein, all assumptions remain unchanged from the valuation
 - No experience gains or losses are assumed other than those attributed to investment experience
- Employer contributions based on stated funded policy
 - Normal cost plus less employee contribution plus amortization of unfunded liability plus administrative expense
 - Amortization of unfunded liability based on level percent of pay and closed amortization period for the 2021 UAL base plus 15-year layered amortizations going forward
 - Employer contribution not allowed to go below the employer normal cost rate unless plan is 120% funded



10-YEAR DETERMINISTIC FUNDED RATIO PROJECTION

STANISLAUS COUNTY EMPLOYEES' RETIREMENT ASSOCIATION

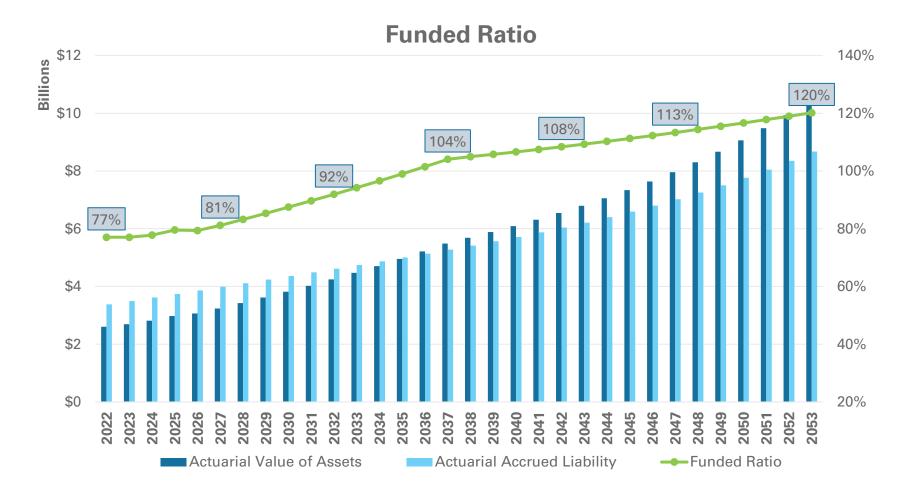




Notes: As of June 30; assumes Current Policy 10-year expected return of 6.5% per annum

30-YEAR DETERMINISTIC FUNDED RATIO PROJECTION

STANISLAUS COUNTY EMPLOYEES' RETIREMENT ASSOCIATION





Notes: As of June 30; assumes Current Policy 30-year expected return of 7.4% per annum

MARGINAL RISK/RETURN HEAT MAP

IMPACT OF 10% ALLOCATION SHIFT TO CURRENT POLICY



This heat map shows how various potential investments would impact the expected long-term risk/return of StanCERA's current policy target



SCENARIO ANALYSIS: REGIME CHANGES

NEPC scenario analysis highlights the impact of shifting economic and market regimes on the portfolio and potential asset allocation mixes

 Risk asset returns are informed by credit returns which are based on changes in real rate, inflation, and credit spreads experienced across market regimes

Expansion

Informed by rising interest rates, moderately rising inflation, elevated positive real rates, spread tightening, and increasing growth

Stagflation

Informed by rising interest rates, rising inflation, depressed negative real rates, spread widening, and slowing growth

Overextension

Informed by rising interest rates, high inflation, negative real rates, spread tightening, and increasing growth

Recession

Informed by depressed interest rate levels, falling inflation, depressed positive real rates, spread widening and slowing growth

Depression

Informed by negative interest rates, deflation, severe credit defaults and downgrades, and negative growth



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6/30/2023 CAPITAL MARKET ASSUMPTIONS

	Asset Class	10-Year Return	30-Year Return	Standard Deviation
MACRO	Inflation	2.7%	2.7%	-
	Cash	4.0%	3.4%	0.6%
	US Leverage Cost	4.3%	3.7%	0.6%
2	Non-US Cash	2.2%	2.6%	0.6%
	US Large-Cap Equity	4.6%	6.7%	16.9%
	US Small/Mid-Cap Equity	6.5%	7.5%	20.8%
	Non-US Developed Equity	5.0%	6.5%	19.6%
	Non-US Developed Equity (USD Hedge)	5.1%	6.7%	17.6%
	Non-US Developed Small-Cap Equity	7.3%	7.8%	24.2%
	Emerging Market Equity	9.2%	9.4%	28.6%
	Emerging Market Small-Cap Equity	8.6%	9.3%	31.9%
EQUITY	Global Equity	5.7%	7.4%	18.0%
Ę	Hedge Fund - Equity	5.7%	6.1%	11.1%
낊	Private Equity - Buyout	7.5%	8.8%	20.0%
	Private Equity - Growth	8.8%	9.8%	31.4%
	Private Equity - Early Stage Venture	10.0%	10.6%	45.0%
	Private Equity - Secondary	7.0%	8.3%	21.0%
	Non-US Private Equity	10.7%	10.9%	32.0%
	Private Equity	9.1%	10.2%	25.7%
	China Equity	9.9%	9.5%	30.7%
	US Microcap Equity	7.4%	8.3%	25.9%
	US TIPS	4.6%	4.4%	6.1%
	US Treasury Bond	4.2%	4.1%	5.4%
	US Corporate Bond	5.7%	5.8%	7.6%
	US Mortgage-Backed Securities	4.5%	4.3%	6.5%
	US Aggregate Bond	4.7%	4.7%	5.8%
	US High Yield Corporate Bond	6.8%	7.1%	11.1%
	US Leveraged Loan	7.6%	6.8%	9.1%
	Emerging Market External Debt	7.7%	7.1%	13.0%
	Emerging Market Local Currency Debt	6.5%	5.7%	13.0%
	Non-US Government Bond	2.6%	3.1%	9.5%
E	Non-US Government Bond (USD Hedge)	2.8%	3.3%	4.1%
CREDI	Global Government Bond	3.1%	3.5%	7.6%
完	Global Government Bond (USD Hedge)	3.2%	3.6%	4.2%
0	Non-US Inflation-Linked Bond (USD Hedge)	3.8%	3.7%	6.6%
	Global Multi-Sector Fixed Income	6.2%	6.0%	8.1%
	Absolute Return Fixed Income	5.9%	5.7%	5.8%
	US Municipal Bond	4.1%	3.8%	6.0%
	US Municipal Bond (1-10 Year)	3.2%	3.4%	4.5%
	US High Yield Municipal Bond	5.8%	5.7%	12.0%
	Hedge Fund - Credit	6.9%	7.0%	10.0%
	Private Debt - Credit Opportunities	8.0%	8.4%	14.8%
	Private Debt - Distressed	8.8%	9.3%	14.6%
	Private Debt - Direct Lending	8.6%	9.0%	11.0%
	Private Debt	8.6%	9.1%	11.8%

	Asset Class	10-Year Return	30-Year Return	Standard Deviation
	US Short-Term TIPS (1-3 Year)	4.6%	3.9%	3.4%
	US Short-Term Treasury Bond (1-3 Year)	4.0%	3.8%	2.3%
	US Short-Term Corporate Bond (1-3 Year)	5.4%	4.9%	2.8%
	US Short-Term High Yield Corporate Bond (1-3 Year)	5.4%	5.4%	8.5%
	US Intermediate-Term TIPS (3-10 Year)	4.6%	4.4%	6.0%
	US Intermediate-Term Treasury Bond (3-10 Year)	4.6%	4.4%	5.9%
	US Intermediate-Term Corporate Bond (3-10 Year)	6.0%	5.9%	7.1%
				12.4%
	US Long-Term TIPS (10-30 Year)	4.5%	4.6%	
	US Long-Term Treasury Bond (10-30 Year)	3.9%	4.2%	11.8%
	US Long-Term Corporate Bond (10-30 Year)	5.6%	6.0%	12.1%
	20+ Year US Treasury STRIPS	3.8%	4.2%	20.7%
Ė	US Long-Term Government/Credit	4.8%	5.2%	11.0%
CREDIT	US Corporate Bond - AAA	4.7%	5.0%	6.5%
5	US Corporate Bond – AA	4.9%	4.9%	6.4%
	US Corporate Bond – A	5.5%	5.4%	7.5%
	US Corporate Bond – BBB	6.1%	6.0%	8.4%
	US Corporate Bond – BB	7.5%	7.7%	9.7%
	US Corporate Bond – B	6.9%	7.0%	11.7%
	US Corporate Bond - CCC/Below	2.0%	1.8%	20.3%
	US Securitized Bond	5.3%	5.1%	8.2%
	US Collateralized Loan Obligation	5.8%	5.1%	7.6%
	US High Yield Securitized Bond	8.9%	8.1%	11.1%
	US High Yield Collateralized Loan Obligation	8.5%	7.7%	10.4%
	US Taxable Municipal Bond	5.3%	5.8%	7.5%
	10 Year US Treasury Bond	4.0%	4.0%	7.5%
	10 Year Non-US Government Bond (USD Hedge)	2.1%	3.0%	5.1%
	Commodity Futures	4.8%	3.6%	18.5%
	Midstream Energy	6.0%	6.8%	28.8%
	Public Real Assets (Multi-Asset)	6.3%	6.3%	14.3%
ည	US REIT	6.4%	7.4%	21.7%
REAL ASSETS	Global Infrastructure Equity	5.9%	6.7%	20.6%
SS	Global Natural Resources Equity	6.8%	7.2%	23.5%
٧.	Gold	5.3%	4.9%	16.3%
₹	Core Real Estate	5.3%	5.8%	15.0%
æ	Non-Core Real Estate	6.7%	7.3%	18.5%
	Private Debt - Real Estate	6.3%	6.3%	11.9%
	Private Real Assets - Natural Resources	8.5%	8.8%	32.5%
	Private Real Assets – Infrastructure	6.3%	6.9%	12.4%
11	Hedge Fund – Macro	5.6%	5.6%	9.3%
MULTI	Hedge Fund	6.3%	6.5%	8.6%
or S	60% S&P 500 & 40% US Aggregate Bond	4.9%	6.2%	10.6%
MULTI	60% MSCI ACWI & 40% US Aggregate Bond	5.6%	6.6%	11.3%



*Calculated as a blend of other asset classes

NEPC DISCLOSURES

Past performance is no guarantee of future results.

NEPC, LLC is an investment consulting firm. We provide asset-liability studies for certain clients but we do not provide actuarial services. Any projections of funded ratio or contributions contained in this report should not be used for budgeting purposes. We recommend contacting the plan's actuary to obtain budgeting estimates.

The goal of this report is to provide a basis for substantiating asset allocation recommendations. 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 on market indices was provided by sources external to NEPC. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within.

The projection of liabilities in this report uses standard actuarial projection methods and does not rely on actual participant data. Asset and liability information was received from the plan's actuary, and other projection assumptions are stated in the report.

All investments carry some level of risk. Diversification and other asset allocation techniques do not ensure profit or protect against losses.

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The goal of this report is to provide a basis for monitoring financial markets. 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.

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December 12, 2023

Retirement Board Agenda Item

TO: Retirement Board

FROM: Tom Stadelmaier, Executive Director

I. SUBJECT: Workiva Update

II. ITEM NUMBER: 10.a

III. ITEM TYPE: Information Only

IV. STAFF RECOMMENDATION: Proceed with completing testing and implementation of Workiva financial reporting software and accept discounts offered by Workiva for delays in the implementation. (Updated Workiva work order attached.)

V. ANALYSIS: In 2022 the Board approved a three-year agreement to implement and utilize Workiva financial reporting software to enhance and streamline our financial reporting capabilities. The project was originally scheduled to be live at the end of 2022 and ready to utilize for the production of the 2023 ACFR.

Due to technical challenges at Workiva connecting to StanCERA financial data along with the loss of key resources at StanCERA in late 2022 and early 2023, the project has been delayed. Workiva has now corrected the technical issue related to data connection and has completed their initial setup which is now near ready for the final testing and implementation phase. Additionally, StanCERA has now filled two vacant positions on the fiscal services team and will be prepared to support testing and implementation work starting in early 2024 after the completion of critical year-end activities including 1099Rs.

Workiva has agreed to provide a discount for the delay in implementation that is equal to 1-year of a subscription and extend the timeframe for implementation and extend the timeframe for use of the Workiva software with custom StanCERA setup.

Success for the use of Workiva software for the ACFR production and other financial reports will require commitment of resources at StanCERA to continue to improve automation of reports and quality control. With proper investment of time and resources StanCERA will see an improvement in the efficiency of producing current reports. It will also allow for the creation of additional reports which will improve overall transparency and provide additional value to staff and the Board especially as the reporting needs become more complex over time.

- VI. RISK: No new risk to proceeding with the updated plan.
- VII. ADMINISTRATIVE BUDGET IMPACT: The immediate impact with be a reduction in FY 2023-2024 budget of approximately \$25K and then a commitment of approximately \$27K added for FY 2025-2026 to allow for an additional year of use vs. what was originally planned.



ORDER: 111723-19131

Customer Reference:

Billing Contact		Order Details		
Stanislaus County Employees Retirement Association ("Customer")		Initial Subscription Term:	August 31, 2023 – August 30, 2026	
Ship To:	P.O. Box 3150 Modesto, California 95353-3150	Initial Pre-Payment Discount:	0%	
	(209) 222-1890	Subsequent Subscription Term:	1 Year	
Bill To:	atkinsb@stancera.org	Subsequent Term Start Date:	August 31, 2026	
	RetireOps@stancera.org	Subsequent Pre-Payment Discount:	0%	
PO Reference #:		Payment Terms:	Net 30	
Offer Valid Through:	November 22, 2023	Data Hosting Location:	North America	

Account Administrator Workiva Info **Business Contact Brittany Smith-Atkins**

Workiva Inc. Workiva Entity:

atkinsb@stancera.org

2900 University Blvd. Ames, Iowa Address:

50010, U.S.A.

("Workiva")

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Invoicing: ar@accounting.workiva.com

+1 (515) 817-6109

Sales: jakob.pitman@workiva.com

(209) 222-1890

SUBSCRIPTION FEES (USD)				
Product	Qty	Annual Term	Total Fees	
Connected Government Financial Reporting Solution - Per Unit	1	3	106,113.18	
	Total S	Subscription Fees	106,113.18	

PAYMENT SCHEDULE			
Invoice Date	Amount		
Upon Signature	25,750.00		
July 31, 2024	53,045.00		
July 31, 2025	27,318.18		
Three Year Subscription & Support Fees	106,113.18		

 $\underline{\textbf{Termination.}} \ \textbf{Notwithstanding anything to the contrary in the Master Terms and}$ Conditions (including order of precedence), all unpaid fees set forth in this Order shall immediately become due and payable if Customer terminates this Order without cause; or Workiva terminates this Order for Customer's material breach.

NOTES:

Support: https://workiva.com/premiumsupport

Service Levels: https://www.workiva.com/servicelevelcommitment

Fee Increases: Workiva may not increase the Subscription Fees under this Order during Customer's then current Subscription Term. Account Administrator: To ensure secure Customer account management, Customer shall designate one (1) employee (the "Account Administrator") who will provide access to its assigned Users and facilitate communication with Workiva's support staff.



Master Terms and Conditions: This Order is subject to the Master Terms and Conditions entered into by the parties on or around **September 01, 2022** and found at https://www.workiva.com/legal/agreement_3.4 ("Master Terms and Conditions"). For the avoidance of doubt, this Order is intended to replace the Order(s) entered into by the parties on the date(s) listed below.

SEPTEMBER 01, 2022 - 072922-8674

Price Guarantee: Upon renewal, the price increase will be calculated based on the Year 3 non-discounted price of \$54,636.35. Upon completion of the Price Guarantee, any Subscription fee increase will be in accordance with the Terms and Conditions.

Public Announcements. When agreed by both parties, customer agree to participate in Workiva marketing efforts by:

- Supporting a reasonable number of reference calls
- Providing a testimonial about the product benefits
- Allowing Workiva to use Customer name and logo in press release(s) announcing new customers
- Assisting with the development of a "Customer Case Study" article, which may be published on both the Workiva website and
 possible inclusion in an industry magazine

Additional Terms: If there are any additional product descriptions not mentioned above and/or any additional terms apply to Workiva's provision of Services under this Order, such terms will be set forth below following the signature section of this Order.

SIGNATURES				
Stanislaus County Employees Retirement Association	Workiva			
SIGNATURE:	SIGNATURE:			
NAME:	NAME: Jill Klindt			
TITLE:	TITLE: Executive Vice President and Chief Financial Officer			
DATE:	DATE:			

ADDITIONAL TERMS:

DATA LOCATION

Data Hosting Location: Notwithstanding anything to the contrary in the Master Terms and Conditions, Customer Data will be hosted in the location specified in the Data Hosting Location in the Order Details section above. Workiva will not move Customer Data to a different Data Hosting Location unless mutually agreed in advance and in writing. Any changes to Data Hosting Location requested by Customer and mutually agreed in writing may incur fees. At the time of signing, data is hosted by Amazon Web Services and Google.

SUBSCRIPTION TERM & PRODUCT DESCRIPTION(S)

Subscription Terms: Unless either party has provided notice of non-renewal thirty (30) days prior to expiration of the then current Subscription Term, (a) upon the completion of the initial Subscription Term this Order will automatically renew for (i) the same length of time as the initial Subscription Term, or (ii) if set forth above, for the period of time denoted for any Subsequent Subscription Term (in either case, the "Renewal Term"), and (b) this Order will continue to automatically renew for same length of time as the Renewal Term.

Any prepaid and unearned Fees associated with active Subscription Order(s) being replaced by this Order will be credited against the amounts set forth herein, and, if applicable, on an ongoing basis for future renewals of this Order. If Unlimited Reserve Hours were selected on an Order for Subscription that is superseded by this Order, such Unlimited Reserve Hours shall remain available to Customer and are not superseded.

CONNECTED WDESK GOVERNMENT FINANCIAL REPORTING SOLUTION - PER UNIT

The Connected Financial Reporting Solution for governmental agencies and institutions of higher education includes access to the Connected Financial Reporting Workspace, Wdata and one (1) system connector for users involved in the accounting and finance reporting process and the ability to add such users on an as-needed basis. Total data storage of Wdata is limited to one hundred (100) gigabytes. Queries are limited to one hundred and twenty (120) terabytes processed per year. The Connected Financial Reporting Workspace enables the organization to streamline the creation of Annual Comprehensive Financial Reports (ACFR), single audits, grants financial reporting, and ad hoc financial reports and dashboards.



ADDITIONAL TERM FOR PRODUCT DESCRIPTION(S)

TO THE EXTENT THE PRODUCT DESCRIPTION(S) ABOVE CONFLICTS WITH THE TERMS OF THE MASTER TERMS AND CONDITIONS, AND, NOTWITHSTANDING ANY ORDER OF PRECEDENCE THEREIN, THE PARTIES AGREE THAT THE PRODUCT DESCRIPTION(S) IN THIS ORDER SHALL CONTROL. THE PRODUCT DESCRIPTION(S) AND THE TERMS OF THIS ORDER SHALL HAVE NO EFFECT ON ANY OTHER ACTIVE ORDER.

This Subscription Order provides access to Users of the Customer in the signature table above. For the avoidance of doubt, any User of any Customer Affiliate can contribute to any given report, but reports can only be created for the benefit of the Customer. Users may include Customer's Affiliates, consultants, contractors, agents and third parties with which Customer transacts business. Customer shall, from time to time and upon Workiva's request, provide Workiva with reasonable assistance to enable Workiva to verify Customer's compliance with the terms of this Order; if the Customer is out of compliance with the terms herein, Customer will be responsible for any fees associated with remedying such noncompliance.

Stanislaus County Employees' Retirement Association

December 12, 2023

Retirement Board Agenda Item

TO: Retirement Board

FROM: Donna Riley, Internal Governance Chair

I. SUBJECT: Internal Governance Committee – Approval of the Annual Comprehensive Financial Report and Statements for the Fiscal Years ended June 30, 2023 and 2022.

II. ITEM NUMBER: 11.a

III. ITEM TYPE: Discussion and Action

IV. STAFF RECOMMENDATION: Accept Committee's Recommendation for Receipt of the Annual Comprehensive Financial Report for the Fiscal Years. (Attachment 1)

V. ANAYLSIS:

The Internal Governance Committee met on November 27, 2023, with StanCERA staff and Audit Partner and Audit Engagement Manager from the Brown Armstrong Accountancy Corporation regarding the independent audit of StanCERA's financial statements.

Brown Armstrong conducted its audit in accordance with generally accepted auditing standards. StanCERA received an unqualified opinion that the basic financial statements (beginning on page 17) present fairly the fiduciary net position of StanCERA in accordance with generally accepted accounting principles. As a result of the audit, StanCERA received an unmodified opinion on its Report of Financial Statements. Brown Armstrong did not provide any opinion regarding internal controls; however, it was noted that no internal control weaknesses were identified during the audit.

The report to the Internal Governance Committee highlighted that no material weaknesses or deficiencies were found for Fiscal Year 2022-2023. In the letter to management, no agreed upon conditions or recommendations were noted for the current year.

VI. RISK: None

VII. STRATEGIC PLAN: N/A

VIII. ADMINISTRATIVE BUDGET IMPACT: None



ANNUAL COMPREHENSIVE FINANCIAL REPORT

FISCAL YEARS ENDED JUNE 30, 2023 AND 2022

STANISLAUS COUNTY EMPLOYEES' RETIREMENT ASSOCIATION (STANCERA)

(PENSION TRUST FUND OF THE COUNTY OF STANISLAUS, CALIFORNIA)

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Stanislaus County Employees' Retirement Association

(Pension Trust Fund of the County of Stanislaus, California)

Annual Comprehensive Financial Report

For the Fiscal Years Ended June 30, 2023 and 2022

Issued By

Thomas Stadelmaier
Executive Director

Produced by StanCERA Staff

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INTRODUCTION SECTION

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LETTER OF TRANSMITTAL

November 20, 2023

Stanislaus County Employees' Retirement Association Modesto, CA 95354

Dear Board Trustees and Members:

Please find enclosed the Annual Comprehensive Financial Report (ACFR) of the Stanislaus County Employees' Retirement Association (StanCERA or the Plan) for the fiscal years ended June 30, 2023 and 2022. As of June 30, 2023, it is StanCERA's 75th year of operations.

The ACFR is a detailed financial report established by the Government Finance Officers Association of the United States and Canada (GFOA) for publicly disclosing the viability of a defined benefit public retirement system. The ACFR is intended to provide users with extensive, reliable information for making management decisions, determining compliance with legal provisions, and demonstrating the responsible management and stewardship of StanCERA. StanCERA management is responsible for both the accuracy of the data and the completeness and fairness of the presentation of financial information within this ACFR, including all disclosures.

StanCERA is a multiple employer public employees' retirement system established by Stanislaus County on July 1, 1948. StanCERA is operated and administered by the Board of Retirement (the Board) to provide retirement, disability, death, and survivor benefits for its members under the California State Government Code, Section 31450 et seq. known as the County Employees Retirement Law of 1937 (CERL) and the Public Employees' Pension Reform Act (PEPRA).

StanCERA and Its Services

Stanislaus County established StanCERA to provide retirement allowances and other benefits to general and safety members employed by Stanislaus County. Currently, Stanislaus County and nine participating agencies are members of StanCERA. The participating agencies are:

City of Ceres

Stanislaus Council of Governments

Stanislaus County Superior Court

East Side Mosquito Abatement District

Hills Ferry Cemetery District

Keyes Community Services District

Salida Sanitary District

Stanislaus Regional Transit Authority

Stanislaus Regional Water Authority (As of June 30, 2023, plan sponsor has not reported wages, contributions, or service hours.)

StanCERA and Its Services (continued)

StanCERA is governed by the County Employees Retirement Law of 1937 (CERL), and the Public Employees' Pension Reform Act (PEPRA). In addition, these legislations are complimented by the bylaws, regulations, policies, and procedures adopted by the Board of Retirement. The Stanislaus County Board of Supervisors may also adopt resolutions, as permitted by the CERL, which may affect benefits to Stanislaus County members.

The Board of Retirement is responsible for the management of StanCERA. It is comprised of nine members and two alternate members, one of whom is a safety alternate and the other a retiree alternate. The safety alternate seat is not currently filled. The Stanislaus County Board of Supervisors appoints four members; the safety members elect one member and the alternate safety member; two members are elected by the general members, while the retired members elect the retiree and alternate retiree members. In addition, the Stanislaus County Treasurer serves as an ex-officio member. Except for the Stanislaus County Treasurer, members serve three-year terms with no term limits.

Financial Information

The accompanying financial statements are prepared using the accrual basis of accounting. Contributions from employers and members are recognized when received or when due pursuant to legal requirements. Benefits are recognized when due and payable in accordance with the terms of the Plan. Expenses are recorded when corresponding liabilities are incurred, regardless of when payment is due or made. Investments are recorded at the fair value of the asset.

An overview of StanCERA's fiscal operations for the years ended June 30, 2023 and 2022, is presented in the Management's Discussion and Analysis (MD&A) located in the financial section of the ACFR. This transmittal letter, together with the MD&A, provides an expanded view of the activities of StanCERA.

Brown Armstrong Accountancy Corporation, StanCERA's independent auditor, has audited the accompanying financial statements. Management believes an adequate system of internal controls is in place and the accompanying statements, schedules, and tables are fairly presented and free from material misstatement. The concept of reasonable assurance recognizes that first, the cost of a control should not exceed the benefits likely to be derived and that second, the valuation of the cost and benefits requires estimates and judgments by management.

Internal controls over financial reporting cannot provide absolute assurance of achieving financial reporting objectives because of its inherent limitations. Internal controls over financial reporting are processes that involve human diligence and compliance and are subject to lapses in judgment and breakdowns resulting from human failures. Internal controls over financial reporting also can be circumvented by collusion or improper management override. Because of such limitations, there is a risk that material misstatements may not be prevented or detected, timely, by internal controls over financial reporting. However, these inherent limitations are known features of the financial reporting process. Therefore, it is possible to design safeguards into the process to reduce, but not eliminate, this risk.

Net Pension Liability and Actuarial Funding

StanCERA's funding objective is to meet long-term benefit obligations by maintaining a well-funded Plan status and obtaining optimum investment returns with a reasonable risk profile. Pursuant to the CERL, StanCERA engages an independent actuary to perform an actuarial valuation of the Plan annually. Economic assumptions are normally reviewed every three years. Additionally, a triennial experience study is conducted every three years, at which time non-economic assumptions are also updated.

Cheiron, Inc. conducted the most recent valuation and triennial experience study; current assumptions went into effect on July 1, 2022. The experience study was completed as of June 30, 2021 and incorporated into the valuation for the period ending June 30, 2022 setting the contribution rates for the fiscal year beginning July 1, 2023. The Plan's Fiduciary Net Position, as a Percentage of the Total Pension Liability, is 76.0%.

Investments

The Board of Retirement has exclusive control of all StanCERA investments and is responsible for establishing investment objectives, strategies, and policies. The California Constitution and Government Code Sections 31594 and 31595 authorize the Board of Retirement to invest in any investment deemed prudent in the Board's informed opinion.

The Board has adopted an Investment Policy, which provides a framework for managing StanCERA's investments. This policy establishes StanCERA's investment objectives and defines the duties of the Board of Retirement, investment managers, and custodial bank. The asset allocation is an integral part of the Investment Policy. It is designed to provide an optimum mix of asset classes with return expectations to ensure the growth of assets to meet future liabilities, minimize employer contributions, and defray reasonable administrative costs. StanCERA engages an Investment Consultant to analyze the Investment Policy and strategy and to conduct periodic asset allocation and asset/liability studies on behalf of StanCERA. For the fiscal years ended June 30, 2023 and 2022, the Plan's investments provided a 6.8% and -6.4% rate of return, respectively. A summary of the asset allocation can be found in the Investment Section of this report.

Awards

StanCERA is the recipient of several awards. The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to StanCERA for its ACFR for the fiscal year ended June 30, 2021. At the time of this report, StanCERA is awaiting the completed review of its ACFR for the fiscal year ended June 30, 2022. The Certificate of Achievement is a prestigious national award recognizing conformance with the highest standards for preparing state and local government financial reports. StanCERA has achieved this prestigious award for eighteen consecutive years.

To be awarded a Certificate of Achievement, a government unit must publish an easily readable and efficiently organized ACFR, the contents of which meet or exceed program standards. In addition, the ACFR must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for one year only. Our current report continues to conform to the Certificate of Achievement program requirements, and we are submitting it to the GFOA for evaluation.

StanCERA also received the Public Pension Coordinating Council's Public Pension Standards 2022 Award in recognition of meeting professional standards for plan design and administration as outlined in the Public Pension Standards.

Awards (continued)

The Public Pension Coordinating Council (PPCC) is a coalition of the following associations that represent public pension funds that cover the vast majority of public employees in the U.S.:

- National Association of State Retirement Administrators (NASRA)
- National Council on Teacher Retirement (NCTR)
- National Conference on Public Employee Retirement Systems (NCPERS)

The Public Pension Standards are intended to reflect minimum expectations for public retirement systems management and administration and serve as a benchmark by which all defined benefit public plans should be measured.

Service Efforts and Accomplishments

In 2023, StanCERA completed initial roll-out of the member portal website. The member portal is a tool available to provide instant access to personalized information regarding benefits available from StanCERA. This includes information for active members, retired members and other Plan beneficiaries. StanCERA is currently engaged in ongoing efforts to educate the membership about the use of the portal and promote the efficient and ready access to valuable information that it provides.

Also in 2023, the Board of Retirement adopted a new strategic plan, StanCERA CARES. The plan focuses on supporting the following key objectives: Customer engagement, Administrative excellence, Reporting and transparency, Efficiency and innovation and Sustainability. More information is available at stancera.org.

Acknowledgment

The compilation of this report reflects the combined efforts of many people on StanCERA's staff. It is intended to provide reliable information as the basis for making management decisions, as a means for determining compliance with legal provisions, and as a means of determining responsible stewardship of the funds of StanCERA. Both the accuracy of the data presented and the completeness and fairness of the presentation of the ACFR are the responsibility of the management of StanCERA.

I congratulate the Board, staff, and service providers of StanCERA for their commitment and diligent work to ensure the continued successful operation of StanCERA.

Sincerely,

Thomas Stadelmaier

Thomas Stadelmaier

Executive Director

BOARD OF RETIREMENT JUNE 30, 2023



Seat # 1 **Donna Riley**Ex-Officio, Treasurer/Tax Collector



Seat # 3 **Delilah Vasquez**Trustee, Elected by Active General Membership



Seat # 5 *Mike Lynch*Trustee, Appointed by the Board of Supervisors



Seat # 7 Joshua Clayton
Trustee, Elected by Active Safety Membership



Seat #8 **Michael O'Neal**Trustee, Elected by Retired Membership



Seat # 9 **Jeff Grover**Trustee, Appointed by the Board of Supervisors



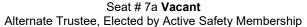
Seat # 2 **Mandip Dhillon** Chair, Elected by Active General Membership



Seat # 4 **Darin Gharat**Vice-Chair, Appointed by the Board of Supervisors



Seat # 6 *Terry Withrow*Trustee, Appointed by the Board of Supervisors

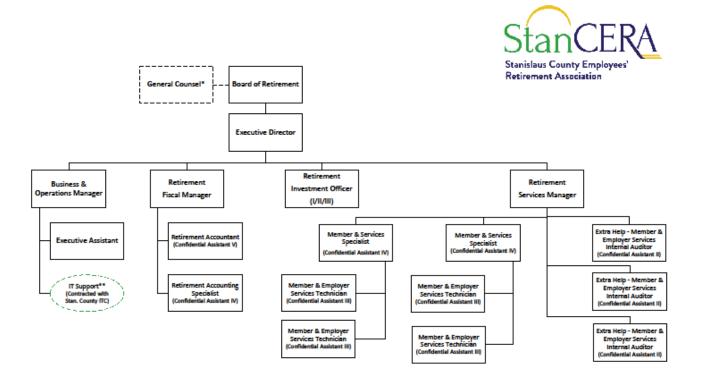




Seat # 8a **Rhonda Biesemeier**Alternate Trustee, Elected by Retired Membership

StanCERA ORGANIZATIONAL CHART

Effective 2023



^{*} General Counsel: Position is allocated in administrative budget; position remains vacant.

Revised: July 12, 2023

^{**} IT Support: Position is allocated in administrative budget; position remains vacant. StanCERA contracts with Stanislaus County ITC for onsite support.

PROFESSIONAL CONSULTANTS JUNE 30, 2023

Consulting Services

Actuary

Cheiron, Inc.

Auditors

Brown Armstrong Accountancy Corporation

Investment Custodian

Northern Trust

Investment Consultant

NEPC

Verus, Inc.

Legal Counsel

Damrell Nelson Schrimp Pallios & Silva (General Legal Counsel) Hanson Bridgett LLP Law Office of Ted M Cabral Nossaman LLP Reed Smith LLP

Technical & Data Services

Tegrit

SBT, County of Stanislaus

Investment Management Services*

Fixed Income

Insight

Northern Trust Intermediate Bond Northern Trust Long Term Bond

Large Cap Value Equity

BlackRock R1000 Value Dodge & Cox

Large Cap Growth Equity

BlackRock R1000 Growth Northern Trust Russell 1000

Small Cap Value Equity

Attucks Asset Management

International Equity

Fidelity Asset Management (Growth) LSV Asset Management (Value)

Real Estate Securities

Black Rock US Real Estate Index

Investment Management Services*

Private Credit

Abry VI

Black Rock High Yield

Callodine Loan Fund II

Medley Opportunity

Monroe Fund IV

Owl Rock First Lien

Raven Capital Management, LLC

Special Situations Fund V

White Oak Global Advisors, LLC

Private Equity

Audax Fund VII

Blue Wolf V

Clayton, Dubilier & Rice XI

Eclipse Fund V

Genstar Capital Partners X

Great Hill VIII

Gryphon Partners VI

Insight Partners XI

Northern Trust Russell 3000

Sole Source Partners II

Vista Foundation IV Fund

Private Real Estate

American Realty Advisors Greenfield Acquisition Partners Grandview Partners Morgan Stanley Prime Property PGIM Real Estate U.S. Debt TA Realty Value Fund XIII

Infrastructure

JP Morgan IIF North Haven Partners II LP NTAM Infrastructure Palistar Infrastructure II

Risk Parity

AQR

PanAgora

Liquid Absolute Return

Graham Proprietary Matrix Invesco

*Refer to the Investment Section for the Schedule of Investment Management Fees (Page 57-58) and Schedule of Investment Broker Commissions (Page 59).



Public Pension Coordinating Council

Public Pension Standards Award For Funding and Administration 2022

Presented to

Stanislaus County Employees' Retirement Association

In recognition of meeting professional standards for plan funding and administration as set forth in the Public Pension Standards.

Presented by the Public Pension Coordinating Council, a confederation of

National Association of State Retirement Administrators (NASRA)
National Conference on Public Employee Retirement Systems (NCPERS)
National Council on Teacher Retirement (NCTR)

Alan H. Winkle Program Administrator

FINANCIAL SECTION

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INDEPENDENT AUDITOR'S REPORT

To the Board of Retirement and Internal Governance Committee of Stanislaus County Employees' Retirement Association Modesto, California

Report on the Audit of the Financial Statements

Opinions

We have audited the accompanying Statements of Fiduciary Net Position of the Stanislaus County Employees' Retirement Association (StanCERA), a pension trust fund of the County of Stanislaus, as of June 30, 2023 and 2022, the related Statements of Changes in Fiduciary Net Position for the fiscal years then ended, and the related notes to the financial statements, which collectively comprise StanCERA's basic financial statements as listed in the table of contents.

In our opinion, the basic financial statements referred to above present fairly, in all material respects, the fiduciary net position of StanCERA as of June 30, 2023 and 2022, and the changes in fiduciary net position for the fiscal years then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinions

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (GAAS) and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of StanCERA and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about StanCERA's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

BAKERSFIELD 4200 Truxtun Avenue, Suite 300 Bakersfield, CA 93309 661-324-4971 FRESNO 10 River Park Place East, Suite 208 Fresno, CA 93720 559-476-3592 STOCKTON 2423 West March Lane, Suite 202 Stockton, CA 95207 209-451-4833 Management is also responsible for maintaining a current plan instrument, including all StanCERA plan amendments; administering StanCERA; and determining that StanCERA's transactions that are presented and disclosed in the financial statements are in conformity with StanCERA's plan provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or which may become due to such participants.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS and Government Auditing Standards, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to
 fraud or error, and design and perform audit procedures responsive to those risks. Such
 procedures include examining, on a test basis, evidence regarding the amounts and disclosures
 in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit
 procedures that are appropriate in the circumstances, but not for the purpose of expressing an
 opinion on the effectiveness of StanCERA's internal control. Accordingly, no such opinion is
 expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about StanCERA's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis (MD&A) and required supplementary information (RSI), as listed in the table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board (GASB), who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the MD&A and RSI in accordance with GAAS, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Supplemental Information

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise StanCERA's basic financial statements. The accompanying other supplemental information, as listed in the table of contents, is presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with GAAS. In our opinion, the other supplemental information, as listed in the table of contents, is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

Other Information

Management is responsible for the other information included in the Annual Comprehensive Financial Report. The other information comprises the introductory, investment, actuarial, and statistical sections but does not include the basic financial statements and our auditor's report thereon. Our opinions on the basic financial statements do not cover the other information, and we do not express an opinion or any form of assurance thereon.

In connection with our audit of the basic financial statements, our responsibility is to read the other information and consider whether a material inconsistency exists between the other information and the basic financial statements, or the other information otherwise appears to be materially misstated. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated November 20, 2023, on our consideration of StanCERA's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of StanCERA's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering StanCERA's internal control over financial reporting and compliance.

BROWN ARMSTRONG
ACCOUNTANCY CORPORATION

Grown Armstrong Secountaincy Corporation

Stockton, California November 20, 2023

MANAGEMENT'S DISCUSSION AND ANALYSIS

This discussion and analysis of the Stanislaus County Employees' Retirement Association's (StanCERA or the Plan) financial performance provides an overview of the financial activities and funding conditions for the fiscal years ended June 30, 2023 and 2022. Please review the information presented here in conjunction with the Letter of Transmittal and additional information provided.

Financial Highlights

- Fiduciary Net Position increased by \$135.4 million (or 5.4%) during the fiscal year 2023 due to the fiscal year's activities.
- Contributions (employer and member), in total, increased by \$7.4 million (or 5.6%) during the fiscal year 2023.
- Net investment income (including Net Appreciation in Fair Value of Investments) increased by \$340.5 million (or 200.1%) during the fiscal year 2023.
- Benefit payments increased by \$10.4 million (or 6.6%) during the fiscal year 2023.

Plan Highlights

- Effective March 9, 2002, benefit plans for Tiers 2 and 3 were closed to new hires; Tiers 4 and 5 were adopted to provide retirement formulas commonly known as 2% at age 55 for active general members and 3% at age 50 for active safety members. One participating agency did not implement the new benefit plans. Additionally, members in Tier 3 were allowed to transfer into a contributory plan.
- Beginning January 1, 2011, Tier 5 was closed. Tier 2 was re-opened for all new hires for Stanislaus
 County with the reduced benefit formulas of 2% at age 61 for most general members and 2% at age 50
 for general safety members.
- On January 1, 2013, Tier 2 was closed, and Tier 6 was adopted for all new hires providing the retirement formula of 2% at age 62 for general members and 2.7% at age 57 for safety members.
- Stanislaus Regional Transit Authority selected StanCERA as its public employees' retirement system effective July 1, 2021.
- Beginning August 1, 2021, the City of Ceres Fire Department exited the City of Ceres. This resulted in an employer rate increase for the City of Ceres, which StanCERA's actuary vetted.
- Stanislaus Regional Water Authority selected StanCERA as its public employees' retirement system, effective July 1, 2022.
- In April of 2023 and 2022, a 3.0% annual cost-of-living increase was given to all retired, disabled, and beneficiary members receiving a recurring allowance except those retirees who received pensions for service as a Tier 3 non-contributory member.

Using the Annual Report

The financial statements reflect the activities of the Stanislaus County Employees' Retirement Association. They are composed of the Statement of Fiduciary Net Position and the Statement of Changes in Fiduciary Net Position. These statements are presented on an accrual basis of accounting and reflect all trust activities as incurred.

Overview of the Basic Financial Statements

This Management's Discussion and Analysis is intended to serve as an introduction to StanCERA's basic financial statements, which are comprised of the following three components:

- 1. Statement of Fiduciary Net Position
- 2. Statement of Changes in Fiduciary Net Position
- 3. Notes to the Basic Financial Statements

StanCERA's basic financial statements and the note disclosures to the basic financial statements comply with accounting principles generally accepted for governments (GAAP) within the United States as established by the Governmental Accounting Standards Board.

Financial Analysis

Statement of Fiduciary Net Position

The Statement of Fiduciary Net Position shows the assets available for future payments to retirees and liabilities as of the fiscal year-end. The following condensed comparative summary of the Fiduciary Net Position demonstrates that the pension trust primarily focuses on cash and investments and the restricted net position. This statement is also a good indicator of the financial strength of StanCERA.

Fiduciary Net Position, as of					
June 30, 2023, 2022, and 2021				\$ Change	\$ Change
	2023	2022	2021	2023-2022	2022-2021
Current Assets	\$80,916,029	\$ 78,319,008	\$ 194,395,097	\$ 2,597,021	\$(116,076,089)
Investments	2,670,590,498	2,536,053,321	2,708,970,681	134,537,177	(172,917,360)
Capital Assets, Net	10,196,479	9,861,431	9,022,200	335,048	839,231
Total Assets	2,761,703,006	2,624,233,760	2,912,387,978	137,469,246	(288, 154, 218)
Total Liabilities	99,860,461	97,808,416	181,790,108	2,052,045	(83,981,692)
Total Fiduciary Net Position Restricted					
for Pension Benefits	\$2,661,842,545	\$2,526,425,344	\$ 2,730,597,870	\$ 135,417,201	\$ (204,172,526)

Financial Analysis (continued)

Statement of Changes in Fiduciary Net Position

The Statement of Changes in Fiduciary Net Position provides an account of the fiscal years' additions to and deductions from Fiduciary Net Position.

Additions To Fiduciary Net Position For The Fiscal Years Ended June 30, 2023, 2022, and 2021		2023		2022		2021		\$ Change 2023-2022		\$ Change 2022-2021
Employer Contributions	\$	105,089,934	\$	100,768,249	\$	93,307,629	\$	4,321,685	\$	7,460,620
Plan Member Contributions	·	33,052,850		29,998,079	Ċ	29,553,123		3,054,771	·	444,956
Net Investment Income/(Loss)		173,418,657		(169,153,892)		556,195,649		342,572,549		(725,349,541)
Total Additions	\$	311,561,441	\$	(38,387,564)	\$	679,056,401	\$	349,949,005	\$	(717,443,965)
Deductions From Fiduciary Net Position For The Fiscal Years Ended June 30, 2023, 2022, and 2021 Benefit Payments Member Refunds - Termination Member Refunds/Payouts - Death Administrative Expenses Total Deductions	\$	168,768,709 2,612,987 400,606 4,361,938 176,144,240	\$	158,258,447 3,104,675 946,076 3,475,764 165,784,962	\$	149,015,287 1,610,897 304,717 3,393,869 154,324,770	\$	10,510,262 (491,688) (545,470) 886,174 10,359,278		9,243,160 1,493,778 641,359 81,895 11,460,192
lotal Deductions	\$	176,144,240	\$	165,784,962	\$	154,324,770	\$	10,359,278	\$	11,460,192
Change in Fiduciary Net Position Restricted for Pension Benefits	\$	135,417,201	\$	(204,172,526)	\$	524,731,631	\$	339,589,727	\$	(728,904,157)
Fiduciary Net Position Restricted for Pension Benefits										
Beginning of Year	_	2,526,425,344		2,730,597,870		2,205,866,239		(204,172,526)		524,731,631
End of Year	\$	2,661,842,545	\$	2,526,425,344	\$	2,730,597,870	\$	135,417,201	\$	(204,172,526)

Additions to Fiduciary Net Position

A review of the Statement of Fiduciary Net Position shows that June 30, 2023, closed with assets exceeding liabilities by \$2.6 billion, with the Fiduciary Net Position restricted for StanCERA's ongoing obligations to Plan participants and their beneficiaries. The fiscal year ended June 30, 2022, closed with assets exceeding liabilities by \$2.5 billion. The \$135.4 million increase and \$204.2 million decrease, respectively, in the Fiduciary Net Position is a direct result of the changes in the financial market and investment performance. StanCERA remains in good financial condition.

Financial Analysis (continued)

Additions to Fiduciary Net Position (continued)

The primary sources to finance the benefits StanCERA provides are accumulated through return on investments and the collection of member and employer contributions. The total for these income sources for the fiscal year ended June 30, 2023 resulted in an increase of \$349.9 million, whereas the fiscal year ended June 30, 2022 resulted in a decrease of \$717.4 million. The increase is primarily a result of activity in the broad market, as discussed in the Investment Analysis below. Employer and member contributions increased by \$7.4 million (or 5.6%) from the contributions made in the fiscal year that ended June 30, 2023 due to salary increases for active members.

Deductions from Fiduciary Net Position

The primary uses of StanCERA's assets are the payment of benefits to retirees and their beneficiaries, refunds of contributions to terminated employees, and the costs of administering the Plan. These expenses for the fiscal year that ended June 30, 2023 were \$176.1 million, an increase of \$10.4 million from the prior year. This increase is due to the increased number of retirees, an increase in the average benefit payment received, and the acquisition of a new pension system. For the fiscal year ended June 30, 2022, the expenses were \$165.8 million, an increase of \$11.5 million from the prior year due to the increase in the number of retirees and the average amount they are paid. For the fiscal year ended June 30, 2023, administrative expenses increased by \$0.9 million (or 25.5%) from the prior year. This increase is a result of realized depreciation of completed capital projects in addition to increased insurance costs, technological improvements, and legal expenses. As a result, total administrative expenses represented 0.1103% of the accrued actuarial liability (funding basis) for the fiscal year ended June 30, 2023 and 0.1025% for the fiscal year ended June 30, 2022.

Overall Financial Condition

Investment Analysis

StanCERA's investment activity is a function of the underlying marketplace for the period measured and the Investment Policy's asset allocation. For the fiscal year ended June 30, 2023, StanCERA's investments were reported by the three functional portfolios per the Investment Policy, that was restated and approved by the Board of Retirement on May 28, 2019.

The Plan's domestic equity returns for the fiscal year ended June 30, 2023, underperformed its benchmark by 30 basis points, and international equity outperformed its benchmark by 210 basis points. Domestic equity returns for the fiscal year ended June 30, 2022, outperformed its benchmark by 40 basis points, and international equity outperformed its benchmark by 140 basis points.

For the fiscal year ended June 30, 2023, StanCERA's total portfolio underperformed its policy benchmark by 280 basis points with an overall return of 6.8%. For the fiscal year ended June 30, 2022, StanCERA's total portfolio outperformed its policy benchmark by 40 basis points with an overall return of -6.4%. As a result, management believes the Plan remains in a strong financial position to meet its obligations to Plan participants and beneficiaries.

Overall Financial Condition (continued)

Net Pension Liability

The primary concern of most pension plan participants is the amount of resources available to pay benefits. Historically, pension plans have been under-funded when the employer fails to make actuarially determined contributions. All StanCERA employers have traditionally contributed the actuarially determined contribution as determined by the Plan's actuary.

An indicator of funding status is the ratio of the Fiduciary Net Position to the Total Pension Liability (TPL). An increase in the percentage over time usually indicates a plan is becoming financially stronger; however, a decrease will not necessarily indicate a plan is in financial decline. Changes in actuarial assumptions can significantly impact the Net Pension Liability (NPL). In addition, performance in the stock and bond markets can have a material impact on the fair value of assets and Fiduciary Net Position.

As of June 30, 2022, the NPL rolled forward to StanCERA's fiscal year ended June 30, 2023, which was \$839.9 million using the entry age normal cost method. The Board of Retirement approves the assumptions used by the actuary to perform their calculation. As of the most recent actuarial valuation dated June 30, 2022, rolled forward to June 30, 2023, StanCERA's Fiduciary Net Position was 76.0% of the TPL. The next actuarial valuation is scheduled for June 30, 2023, to be rolled forward to the fiscal year ended June 30, 2024.

StanCERA's Fiduciary Responsibilities

StanCERA's Board of Retirement and management staff are fiduciaries of the pension trust fund. Under the California Constitution, the Fiduciary Net Position can only be used for the exclusive benefit of Plan participants and their beneficiaries.

Requests for Information

This financial report is designed to provide the Board of Retirement, Plan participants, taxpayers, investment professionals, and creditors with a general overview of StanCERA's financial condition and to demonstrate StanCERA's accountability for the funds under its stewardship.

Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to:

Thomas Stadelmaier Executive Director Stanislaus County Employees' Retirement Association 832 12th Street, Suite 600 Modesto, CA 95354

STANISLAUS COUNTY EMPLOYEES' RETIREMENT ASSOCIATION STATEMENT OF FIDUCIARY NET POSITION

As of June 30, 2023 and 2022

	June 30, 2023	June 30, 2022
ASSETS		
Cash and Cash Equivalents (Note 2):	\$67,646,035	\$ 68,001,805
Receivables:		
Interest and Dividends	6,477,394	5,126,501
Securities Transactions	1,175,170	414,900
Contributions (Note 3)	5,595,454	4,757,769
Total Receivables	13,248,018	10,299,170
Prepaid Items:	21,976	18,033
Capital Assets, Net (Note 2):	10,196,479	9,861,431
Investments at Fair Value (Note 4):		
U.S. Government and Agency Obligations	158,283,334	155,551,144
Corporate Bonds	134,708,680	84,726,107
Emerging Market / Non-U.S. Bonds	40,123,269	28,521,437
Domestic Stocks	216,766,378	206,196,280
Domestic Equity Index Fund	347,923,975	291,928,074
International Equity	493,578,649	429,420,275
Real Estate Securities	5,417,195	40,677,468
Private Credit	219,258,183	209,333,195
Private Real Estate	318,689,267	331,827,763
Private Equity	146,030,891	144,301,733
Infrastructure	196,683,219	205,768,782
Risk Parity	309,953,087	326,684,962
Securities Lending Collateral	83,174,371	81,116,101
Total Investments	2,670,590,498	2,536,053,321
Total Assets	2,761,703,006	2,624,233,760
LIABILITIES		
Current Liabilities:		
Accounts Payable	15,253,090	15,309,238
Securities Transactions	1,038,000	988,077
Securities Lending Obligation (Note 4)	83,174,371	81,116,101
Total Current Liabilities	99,465,461	97,413,416
Long-Term Liabilities:		
Grant Deed Extension Fee	395,000	395,000
Total Liabilities	99,860,461	97,808,416
Fiduciary Net Position Restricted For Pension Benefits (Note 8)	\$ 2,661,842,545	\$ 2,526,425,344

The accompanying notes are an integral part of these financial statements.

STANISLAUS COUNTY EMPLOYEES' RETIREMENT ASSOCIATION STATEMENT OF CHANGES IN FIDUCIARY NET POSITION

For the Fiscal Years Ended June 30, 2023 and 2022

		June 30, 2023		June 30, 2022
ADDITIONS				
Contributions (Note 5):	•	407 000 004		400 700 040
Employer	\$	105,089,934	\$	100,768,249
Plan Members		33,052,850		29,998,079
Total Contributions		138,142,784		130,766,328
Investment Income:				
Net Appreciation/(Depreciation) in Fair				
Value of Investments		134,076,331		(191,378,355)
Interest and Dividends		55,969,574		49,088,179
Total Investment Gain/(Loss)		190,045,905		(142,290,176)
Net Income from Commission Recapture		14,491		32,929
Less: Investment Expense (Note 4)		(19,763,497)		(27,898,500)
Net Investment Income/(Loss)		170,296,899	-	(170,155,747)
Other Investment Income:				
Net Litigation Recovery Income		17,177		22,315
Rental Income		105,862		105,862
Other Investment Income		2,618,816		571,747
Net Other Investment Income/(Loss)		2,741,855		699,924
Securities Lending Activities (Note 4):				
Securities Lending Income		540,693		432,050
Less: Securities Lending Expense		(160,790)		(130,119)
Net Securities Lending Income		379,903		301,931
Total Investment Income/(Loss)		173,418,657		(169,153,892)
Total Additions		311,561,441		(38,387,564)
DEDUCTIONS				
Benefit Payments and Subsidies		168,768,709		158,258,447
Member Refunds - Termination		2,612,987		3,104,675
Member Refunds - Death		400,606		946,076
Administrative Expenses (Note 2)		4,361,938		3,475,764
Total Deductions		176,144,240		165,784,962
Net Change in Fiduciary Net Position		135,417,201		(204,172,526)
Fiduciary Net Position Restricted for Pension Benefits (Note 8)				
Beginning of Year		2,526,425,344		2,730,597,870
End of Year	\$	2,661,842,545	\$	2,526,425,344

The accompanying notes are an integral part of these financial statements.

NOTES TO BASIC FINANCIAL STATEMENTS

June 30, 2023 and 2022

NOTE 1 - DESCRIPTION OF PLAN

Description of System and Applicable Provisions of the Law

The Stanislaus County Employees' Retirement Association (StanCERA or the Plan) is an integrated public employee retirement system established under and subject to the legislative authority of the State of California as enacted and amended in the County Employees Retirement Law of 1937 (Chapter 677 Statutes of 1937) (CERL) and the Public Employees' Pension Reform Act. It is a cost-sharing multiple-employer pension plan. StanCERA was established by the County of Stanislaus Board of Supervisors on July 1, 1948, and was integrated with Social Security on January 1, 1956.

Membership

StanCERA consists of employees from the County of Stanislaus, East Side Mosquito Abatement District, Hills Ferry Cemetery District, Keyes Community Services District, City of Ceres, Salida Sanitary District, Stanislaus County Superior Court, Stanislaus Regional Transit Authority, and Stanislaus Council of Governments. Each person entering employment full-time or permanent part-time (50% or more of the regular hours) becomes a member on the first day of employment. The structure of the Membership with StanCERA is as follows:

	June 30, 2023			Ju	ine 30, 2022			
	General	Safety	Total	General	Safety	Total		
Active Members:								
Vested & Non-Vested	3,691	783	4,474	3,571	757	4,328		
Total Active	3,691	783	4,474	3,571	757	4,328		
Inactive Members:								
Deferred Members	741	175	916	732	176	908		
Unclaimed Contributions	945	145	1,090	884	141	1,025		
Total Inactive	1,686	320	2,006	1,616	317	1,933		
Retired Members:								
Service Retirements	3,387	589	3,976	3,302	564	3,866		
Disability Retirements	206	175	381	206	174	380		
Survivor Payments	44	10	54	44	11	55		
Total Retired	3,637	774	4,411	3,552	749	4,301		
Total	9,014	1,877	10,891	8,739	1,823	10,562		

Active

StanCERA has Tiers 1, 2, 3, 4, 5, and 6 for General Members and Tiers 2, 4, 5, and 6 for Safety Members. All tiers are closed, except for Tier 6 for General and Safety Members. Members of the Plan receive a 100% vested interest in the Plan after 5 years of service, except Tier 3, which requires 10 years of service.

NOTE 1 – DESCRIPTION OF PLAN (continued)

Benefits

StanCERA provides for retirement, disability, death, beneficiary, cost-of-living, and ad-hoc retirement benefits.

Service Retirement Benefit

Members of Tiers 1, 2, 4, and 5 with 10 years of service, who have attained the age of 50, are eligible to retire. Tier 3 members are eligible to retire with 10 years of service at age 55. Tier 6 members are eligible to retire with 5 years of service at age 50 for Safety members and age 52 for General members. Members of Tiers 1, 2, 4, and 5 with 30 years of service (20 years for Safety) are eligible to retire regardless of age. The benefit is a percentage of the monthly final average salary (FAS) per year of service, depending on age at retirement, and is illustrated below for representative ages. Government Code Section 31462 of the CERL defines the FAS as a member's average monthly compensation earned during any consecutive 12 months (applicable to members of Tiers 1, 4, and 5). Government Code Sections 31462.1 and 7522.32 use the member's average monthly compensation earned during any 36 consecutive months (applicable to members of Tiers 2, 3, and 6). For members integrated with Social Security, the benefit is reduced by 1/3 of the percentage shown below times the first \$350 of the monthly FAS per year of service credit after January 1, 1956. Tier 6 is not integrated with Social Security.

Percentage of FAS:

General								Safety	
Age	Tier 1	Tier 2	Tier 3	Tier 4	Tier 5	Tier 6	Tiers 1&2	Tiers 4&5	Tier 6
50	1.34	1.18	N/A	1.48	1.48	N/A	2.00	3.00	2.00
55	1.77	1.49	0.68*	1.95	1.95	1.30	2.62	3.00	2.50
60	2.34	1.92	1.14*	2.44	2.44	1.80	2.62	3.00	2.70
65	2.62	2.43	2.00*	2.62	2.62	2.30	N/A	N/A	2.70

^{* 1%} of FAS for each year of service over 35 reduced by 1/35 of Social Security Benefits at age 65 not to exceed 35 years

Retiring members may choose from four (4) different beneficiary retirement allowances. Most retirees elect to receive an unmodified allowance, which includes a continuation of 60% of the allowance to the retirees' surviving spouse or registered domestic partner.

Death Benefit-Before Retirement

Employed Less Than 5 Years

In addition to the return of contributions, a death benefit is payable to the member's beneficiary or estate equal to 1 month of salary for each completed year of service under the retirement system, based on the final year's average salary, not to exceed 6 months of salary (except Tier 3 members).

NOTE 1 – DESCRIPTION OF PLAN (continued)

Death Benefit-Before Retirement (continued)

Employed for More than 5 Years

If a member dies while eligible for service retirement or non-service connected disability, the spouse or registered domestic partner receives 60% of the allowance that the member would have received for retirement benefits on the day of their death (except Tier 3 members).

If a member dies in the performance of duty, the spouse or registered domestic partner receives a monthly benefit of 50% of the member's FAS (except Tier 3 members).

Death Benefit-After Retirement

If a member dies after retirement, a burial allowance of \$5,000 is paid to the beneficiary or estate (except Tier 3 members).

Suppose the retirement benefit is for service connected disability. In that case, 100% of the member's allowance as it was at death is continued to the surviving spouse or registered domestic partner for Tiers 1, 2, 4, 5, and 6. However, tier 3 Members have no allowance continued to the surviving spouse or registered domestic partner.

If the retirement benefit is for other than service connected disability, 60% of the member's allowance is continued to the surviving spouse or registered domestic partner for Tiers 1, 2, 4, 5, and 6, and 60% of the member's allowance is continued to the surviving spouse or registered domestic partner if the unmodified option is chosen at the time of retirement.

Disability Benefit

Regardless of age, members with 5 years of service are eligible for non-service connected disability (except Tier 3 members). The benefit may be up to 1/3 of FAS. If the disability is service connected, the member may retire regardless of the length of service, and the benefit is 50% of FAS (except Tier 3 members).

Cost-of-Living Benefit

The current Cost-of-Living maximum increase for retirees is 3% per year (except Tier 3). The increases are based on the change in the Bureau of Labor Statistics Consumer Price Index (CPI) in the San Francisco Bay area from January 1 to December 31, effective the following April 1.

Ad-Hoc Benefits

Ad-hoc benefits are non-vested benefits determined by the Board of Retirement (Board) and are subject to funding availability.

NOTE 1 – DESCRIPTION OF PLAN (continued)

Ad-Hoc Benefits (continued)

No ad-hoc benefits are currently being paid (effective since January 1, 2010). Changes in the excess earnings policy, approved by the Board on May 25, 2012, placed additional restrictions on the Board's ability to grant these benefits. The greatest restriction currently is that the Plan must be 100% funded on a market basis before funding any ad-hoc benefit.

Contribution Rates

The CERL establishes the basic obligations for employer and member contributions to the retirement system. The actual employer and member contribution rates in effect each year are based on recommendations made by an independent actuary and adopted by the Board.

StanCERA's policy for contributions states actuarially determined rates, expressed as a percentage of annual covered payroll, are required to finance the costs of benefits earned by Plan members during the year, with an additional amount to finance any unfunded liability. The level percentage of payroll employer contribution rates are determined using the entry age actuarial cost method. For funding purposes, StanCERA also uses the level entry age normal cost method with the Unfunded Actuarial Accrued Liability (UAAL) to amortize the unfunded liability. StanCERA's actuarially determined composite employer contribution rates for the fiscal years ended June 30, 2023 and June 30, 2022 were 31.59% and 33.20%, respectively, of annual payroll. Employee contribution rates are based on the age of entry for Tiers 1, 2, 4, and 5 and range between 3.28% and 17.75% for the fiscal years ended June 30, 2023 and June 30, 2022. Tier 6 employer rates are based on 50% of the total normal cost. Tier 6 employee contribution rates are not based on the age of entry and are a flat rate ranging between 8.44% and 14.72% for fiscal years ended June 30, 2023 and June 30, 2023.

NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Reporting Entity

StanCERA is governed by the Board and is considered an independent legal entity. StanCERA is a component unit of Stanislaus County (the County). It is being reported as a Pension Trust Fund in the County's Financial Report in accordance with Governmental Accounting Standards Board (GASB) Statement No. 39, Determining Whether Certain Organizations Are Component Units – an Amendment of GASB Statement No. 14.

Basis of Accounting

StanCERA follows GASB accounting principles and reporting guidelines. The financial statements are prepared on a full accrual basis of accounting, which recognizes income when earned and expenses when incurred. Contributions from employers and members are recognized when received or when due pursuant to legal requirements. Benefits and refunds are recognized when due and payable in accordance with the terms of each plan.

Cash and Cash Equivalents

Cash equivalents include deposits in a treasury account at The Northern Trust Company (Northern Trust), the Plan's Custodian bank (Northern Trust), residual deposit in the County Treasurer's commingled cash pool and other investment managers. Cash equivalents are highly liquid investments with three months or less maturity when purchased. Short-term investments with the custodian bank include foreign currencies, cash held in short-term investment funds, other short-term, and highly liquid investments. Short-term investments considered cash equivalents are recorded at cost, which approximates fair value. Pooled cash is reported at amortized cost, which approximates fair value. Income on pooled cash is allocated on StanCERA's average daily balance in relation to total pooled assets.

Investments

The Board has exclusive control of StanCERA investments. Statutes authorize the Board to invest, or to delegate the authority to invest, in any investment allowed by statute and considered prudent in the informed opinion of the Board.

Investments are stated at fair value in accordance with GASB Statement No. 67, *Financial Reporting for Pension Plans – an Amendment of GASB Statement No. 25.* Values for stocks, publicly traded bonds, issues of the U.S. Government and its agencies, and real estate securities are valued according to sale prices of recognized exchanges as of the fiscal year-end, with international securities reflecting currency exchange rates in effect on June 30, 2023 and 2022. Both domestic and international investments are denominated in U.S. currency. Private Credit Partnerships, Private Real Estate, and Infrastructure investments are valued using their respective Net Asset Value (NAV) and are audited annually. The most significant input into the NAV of such an entity is the fair value of its investment holdings. The partnerships value these holdings quarterly, and the assumptions are based on the nature of the investment and the underlying business. The valuation techniques vary based on investment type and involve a certain degree of expert judgment.

Securities Transactions and Related Investment Income

Securities transactions are accounted for on a trade date basis. Interest income is recognized when earned, and dividend income is recognized on the ex-dividend date. Stock dividends or stock splits are recorded as memo items and do not affect the total value of the securities.

Capital Assets

Capital assets, consisting of software development, the purchase of a condominium interest in one floor of an office building, and office equipment, are presented at historical cost. StanCERA occupies 60% of the 6th floor of the office building, and 40% has been developed as office space currently leased out. The total cost of the capital assets as of June 30, 2023 and June 30, 2022 were \$13,088,627 and \$12,182,316, respectively. Accumulated depreciation increased from \$2,320,885 to \$2,892,146 during the fiscal year 2023. A portion of the total capital assets was not depreciated due to the assets needing to be in use or the project completed before year-end. Depreciation expense for the fiscal years ending June 30, 2023 and June 30, 2022 totaled \$571,263 and \$143,340, respectively. Depreciation is calculated using the straight-line method with an estimated life of 10

Capital Assets (continued)

years for the software development, an estimated life of 99 years for the office space, an estimated life of 10 years for the leasehold improvements, and an estimated life of 5 years for office equipment.

		t Balance at ne 30, 2022		classifications & Additions		lassifications Deletions	De	Less preciation		t Balance at ine 30, 2023
Capital Assets, not being depreciated										
Tenant Improvements	\$	390,438	\$		\$	-	\$	-	\$	390,438
Workiva		-		20,900		-		-		20,900
Total Capital Assets, not being depreciated	\$	390,438	\$	20,900	\$	-	\$	-	\$	411,338
Capital Assets, being depreciated										
Real Estate Occupied	\$	1,573,614	\$	-	\$	-	\$	18,976	\$	1,554,638
Real Estate Leased		1,049,794		-		-		12,653		1,037,141
Leasehold Improvements		21,673		-		-		6,587		15,086
2022 Office Remodel		325,887		279,034		_		21,546		583,375
6th Floor Window Tinting		_		7,750		-		449		7,301
Pension Administration System		5,813,952		568,491		_		400,676		5,981,767
Formax Machine FD6104		4,942		-		_		1,504		3,438
Formax Machine FD6306		-,0 .=		30,136		_		6,028		24,108
VAV Box		10,423		-		_		707		9,716
Imaging System		347,066		_				57,844		289,222
Microfiche Scanner		92		_		_		92		209,222
				-		-				62.004
Board Room Expansion		66,911		-		-		3,917		62,994
Board Room Expansion TI		176,496		-		-		24,917		151,579
Rebranding Cost		35,533		-		-		4,442		31,091
Audio Video System	_	44,610	•	-	•	-	_	10,925	_	33,685
Total Capital Assets, being depreciated TOTAL	\$	9,470,993 9,861,431	\$	885,411 906,311	\$ \$	•	\$ \$	571,263 571,263	\$	9,785,141
		t Balance at ne 30, 2021		classifications & Additions		lassifications Deletions	De	Less preciation		t Balance at ine 30, 2022
Capital Assets, not being depreciated		ne 30, 2021	,		8		De			ine 30, 2022
Capital Assets, not being depreciated Tenant Improvements			,				De \$			
	Ju	ne 30, 2021	,		8		De \$		Ju	ine 30, 2022
Tenant Improvements	Ju	ne 30, 2021 390,438	,	& Additions	8		De \$		Ju	390,438
Tenant Improvements Pension Administration System 2022 Office Remodel	Ju	390,438 5,158,352	,	& Additions - 655,600	8	Deletions	De \$		Ju	390,438 5,813,952
Tenant Improvements Pension Administration System	Ju	390,438 5,158,352 - 9,516	,	& Additions - 655,600 325,887	8		De \$		Ju	390,438 5,813,952 325,887
Tenant Improvements Pension Administration System 2022 Office Remodel 6th Floor Lobby Upgrade Total Capital Assets, not being depreciated	Ju	390,438 5,158,352	,	& Additions - 655,600	8	9,516	De \$		Ju	390,438 5,813,952
Tenant Improvements Pension Administration System 2022 Office Remodel 6th Floor Lobby Upgrade Total Capital Assets, not being depreciated Capital Assets, being depreciated	Ju	390,438 5,158,352 - 9,516 5,558,306	,	& Additions - 655,600 325,887	8	9,516	De \$	preciation	Ju	390,438 5,813,952 325,887
Tenant Improvements Pension Administration System 2022 Office Remodel 6th Floor Lobby Upgrade Total Capital Assets, not being depreciated Capital Assets, being depreciated Real Estate Occupied	Ju	390,438 5,158,352 - 9,516 5,558,306 1,592,591	,	& Additions - 655,600 325,887	8	9,516	De \$		Ju	390,438 5,813,952 325,887
Tenant Improvements Pension Administration System 2022 Office Remodel 6th Floor Lobby Upgrade Total Capital Assets, not being depreciated Capital Assets, being depreciated Real Estate Occupied Real Estate Leased	Ju	390,438 5,158,352 - 9,516 5,558,306 1,592,591 1,062,447	,	& Additions - 655,600 325,887	8	9,516	De	reciation	Ju	390,438 5,813,952 325,887 - 6,530,277 1,573,614 1,049,794
Tenant Improvements Pension Administration System 2022 Office Remodel 6th Floor Lobby Upgrade Total Capital Assets, not being depreciated Capital Assets, being depreciated Real Estate Occupied Real Estate Leased Leasehold Improvements	Ju	390,438 5,158,352 - 9,516 5,558,306 1,592,591 1,062,447 28,259	,	& Additions - 655,600 325,887	8	9,516	De \$	reciation	Ju	390,438 5,813,952 325,887 - 6,530,277 1,573,614 1,049,794 21,673
Tenant Improvements Pension Administration System 2022 Office Remodel 6th Floor Lobby Upgrade Total Capital Assets, not being depreciated Capital Assets, being depreciated Real Estate Occupied Real Estate Leased Leasehold Improvements Formax Machine FD6104	Ju	390,438 5,158,352 - 9,516 5,558,306 1,592,591 1,062,447 28,259 6,446	,	& Additions - 655,600 325,887	8	9,516	De \$	reciation	Ju	390,438 5,813,952 325,887 - 6,530,277 1,573,614 1,049,794
Tenant Improvements Pension Administration System 2022 Office Remodel 6th Floor Lobby Upgrade Total Capital Assets, not being depreciated Capital Assets, being depreciated Real Estate Occupied Real Estate Leased Leasehold Improvements Formax Machine FD6104 Video Conferencing Equipment	Ju	390,438 5,158,352 - 9,516 5,558,306 1,592,591 1,062,447 28,259	,	& Additions - 655,600 325,887 - 981,487	8	9,516	De \$	reciation	Ju	390,438 5,813,952 325,887
Tenant Improvements Pension Administration System 2022 Office Remodel 6th Floor Lobby Upgrade Total Capital Assets, not being depreciated Capital Assets, being depreciated Real Estate Occupied Real Estate Leased Leasehold Improvements Formax Machine FD6104 Video Conferencing Equipment VAV Box	Ju	390,438 5,158,352 9,516 5,558,306 1,592,591 1,062,447 28,259 6,446 287	,	& Additions - 655,600 325,887	8	9,516	De \$	reciation	Ju	390,438 5,813,952 325,887
Tenant Improvements Pension Administration System 2022 Office Remodel 6th Floor Lobby Upgrade Total Capital Assets, not being depreciated Capital Assets, being depreciated Real Estate Occupied Real Estate Leased Leasehold Improvements Formax Machine FD6104 Video Conferencing Equipment VAV Box Imaging System	Ju	390,438 5,158,352 - 9,516 5,558,306 1,592,591 1,062,447 28,259 6,446 287 - 404,910	,	& Additions - 655,600 325,887 - 981,487	8	9,516	De \$	18,977 12,653 6,586 1,504 287 177 57,844	Ju	390,438 5,813,952 325,887
Tenant Improvements Pension Administration System 2022 Office Remodel 6th Floor Lobby Upgrade Total Capital Assets, not being depreciated Capital Assets, being depreciated Real Estate Occupied Real Estate Leased Leasehold Improvements Formax Machine FD6104 Video Conferencing Equipment VAV Box Imaging System Microfiche Scanner	Ju	390,438 5,158,352 - 9,516 5,558,306 1,592,591 1,062,447 28,259 6,446 287 - 404,910 1,203	,	& Additions - 655,600 325,887 - 981,487	8	9,516	De	18,977 12,653 6,586 1,504 287 177 57,844 1,111	Ju	390,438 5,813,952 325,887
Tenant Improvements Pension Administration System 2022 Office Remodel 6th Floor Lobby Upgrade Total Capital Assets, not being depreciated Capital Assets, being depreciated Real Estate Occupied Real Estate Leased Leasehold Improvements Formax Machine FD6104 Video Conferencing Equipment VAV Box Imaging System Microfiche Scanner Board Room Expansion	Ju	390,438 5,158,352 - 9,516 5,558,306 1,592,591 1,062,447 28,259 6,446 287 - 404,910 1,203 70,828	,	& Additions - 655,600 325,887 - 981,487	8	9,516	De \$	18,977 12,653 6,586 1,504 287 177 57,844 1,111 3,917	Ju	390,438 5,813,952 325,887
Tenant Improvements Pension Administration System 2022 Office Remodel 6th Floor Lobby Upgrade Total Capital Assets, not being depreciated Capital Assets, being depreciated Real Estate Occupied Real Estate Leased Leasehold Improvements Formax Machine FD6104 Video Conferencing Equipment VAV Box Imaging System Microfiche Scanner Board Room Expansion Board Room Expansion TI	Ju	390,438 5,158,352 - 9,516 5,558,306 1,592,591 1,062,447 28,259 6,446 287 - 404,910 1,203 70,828 201,413	,	& Additions - 655,600 325,887 - 981,487	8	9,516	De \$	reciation	Ju	390,438 5,813,952 325,887
Tenant Improvements Pension Administration System 2022 Office Remodel 6th Floor Lobby Upgrade Total Capital Assets, not being depreciated Capital Assets, being depreciated Real Estate Occupied Real Estate Leased Leasehold Improvements Formax Machine FD6104 Video Conferencing Equipment VAV Box Imaging System Microfiche Scanner Board Room Expansion Board Room Expansion TI Rebranding Cost	Ju	390,438 5,158,352 - 9,516 5,558,306 1,592,591 1,062,447 28,259 6,446 287 - 404,910 1,203 70,828 201,413 39,975	,	& Additions - 655,600 325,887 - 981,487	8	9,516	De \$	18,977 12,653 6,586 1,504 287 177 57,844 1,111 3,917 24,917 4,442	Ju	390,438 5,813,952 325,887
Tenant Improvements Pension Administration System 2022 Office Remodel 6th Floor Lobby Upgrade Total Capital Assets, not being depreciated Capital Assets, being depreciated Real Estate Occupied Real Estate Leased Leasehold Improvements Formax Machine FD6104 Video Conferencing Equipment VAV Box Imaging System Microfiche Scanner Board Room Expansion Board Room Expansion TI Rebranding Cost Audio Video System	Ju	390,438 5,158,352 - 9,516 5,558,306 1,592,591 1,062,447 28,259 6,446 287 - 404,910 1,203 70,828 201,413 39,975 55,535	,	& Additions - 655,600 325,887 - 981,487 10,600	8	9,516	De \$	18,977 12,653 6,586 1,504 287 177 57,844 1,111 3,917 24,917 4,442 10,925	Ju	390,438 5,813,952 325,887
Tenant Improvements Pension Administration System 2022 Office Remodel 6th Floor Lobby Upgrade Total Capital Assets, not being depreciated Capital Assets, being depreciated Real Estate Occupied Real Estate Leased Leasehold Improvements Formax Machine FD6104 Video Conferencing Equipment VAV Box Imaging System Microfiche Scanner Board Room Expansion Board Room Expansion TI Rebranding Cost	Ju	390,438 5,158,352 - 9,516 5,558,306 1,592,591 1,062,447 28,259 6,446 287 - 404,910 1,203 70,828 201,413 39,975	\$	& Additions - 655,600 325,887 - 981,487	\$	9,516	\$ \$	18,977 12,653 6,586 1,504 287 177 57,844 1,111 3,917 24,917 4,442	Ju \$	390,438 5,813,952 325,887

Administrative Expenses

StanCERA's administrative expense is funded by the investment income and is limited to 0.21% of StanCERA's Actuarial Accrued Liability (AAL) pursuant to Government Code Section 31580.2. The law exempts the limitation for the cost of computer consultation, hardware, and software. Total administrative expenses for the fiscal years ending June 30, 2023 and June 30, 2022 were \$4,361,938 and \$3,475,764, respectively, of which \$883,545 and \$407,791 respectively, were not subject to the administrative expense limitation. Administrative expenses subject to the limitation amounted to 0.1103% of AAL for the fiscal year ended June 30, 2023 and 0.1013% for the fiscal year ended June 30, 2022.

Income Taxes

StanCERA qualifies as a pension trust under Section 401(a) of the Internal Revenue Code. No provision for income taxes has been made in the accompanying financial statements as the Plan is exempt from Federal and State income taxes under the provisions of the Internal Revenue Code Section 501 and the California Revenue and Taxation Code Section 23701, respectively.

Management's Estimates

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, contingent assets and liabilities, revenue, and expenses as of the date of the financial statements. Accordingly, actual results could differ from those estimates.

New Accounting Pronouncements

In June 2017, GASB issued Statement No. 87, *Leases*, which establishes a single model for lease accounting based on the foundational principle that leases are financings of the right-to-use an underlying asset. This statement improves accounting and financial reporting for leases by governments by requiring recognition of certain lease assets and liabilities for leases that previously were classified as operating leases and recognized as inflows or outflows of resources based on the payment provisions of the contract. The requirements of this statement were initially effective for StanCERA's financial statements for the fiscal year ending June 30, 2022. In review of current agreements and consultation with the independent auditor, Brown Armstrong Accountancy Corporation, StanCERA has concluded that this statement did not significantly impact StanCERA. Management will continue to evaluate lease agreements for future periods.

In May 2020, GASB issued Statement No. 96, Subscription-Based Information Technology Arrangements. This statement provides guidance on accounting and financial reporting for subscription-based information technology arrangements (SBITAs). The guidance requires the recognition of a right-to-use subscription asset and a corresponding subscription liability for contracts that convey control of the right-to-use another party's information technology software alone, or in conjunction with, tangible capital assets for a specified period in an exchange or exchange-like transaction. The requirements of this statement are like those of Statement No. 87, Leases. The provisions of this statement are effective with fiscal years beginning after June 15, 2022. StanCERA assessed current arrangements, and in consultation with the independent auditor Brown Armstrong Accountancy

New Accounting Pronouncements (continued)

Corporation, has concluded that this statement did not significantly impact StanCERA at this time. Management will continue to evaluate future arrangements to ensure adherence.

Reclassification

Certain fiscal year 2022 amounts have been reclassed to conform with the fiscal year 2023 presentation.

NOTE 3 – CONTRIBUTIONS RECEIVABLE

Contributions receivables represent withdrawals from employees' salaries and liabilities due by employers for retirement contributions for June that were received in July. Contributions receivable as of June 30, 2023 and June 30, 2022 were \$5,595,454 and \$4,757,769, respectively.

NOTE 4 – CASH AND INVESTMENTS

The California State Constitution and the CERL give the Board the exclusive authority to invest the assets of StanCERA. The Board may, at its discretion, invest or delegate the authority to invest such assets through the purchase, holding, or sale of any form or type of investment, financial instrument, or financial transaction when deemed prudent. StanCERA invests the assets according to a written Investment Policy established by the Board and currently employs external investment managers to manage the assets subject to the guidelines in the policy.

Deposits in Northern Trust

During the fiscal year ending June 30, 2022, StanCERA initiated the transition of its cash account from the Stanislaus County Treasury to The Northern Trust Company. The funds held in this account are the resources needed for daily operational purposes. StanCERA is responsible for the control and safekeeping of funds; cash in Northern Trust is managed according to StanCERA's policy and is subject to regulatory oversight by external auditors. StanCERA's cash invested with Northern Trust for operational use totals \$13,880,485 and \$15,248,869 on June 30, 2023 and 2022, respectively.

Deposits in Stanislaus County Treasury

Prior to the treasury transition, StanCERA utilized Stanislaus County's Treasurer for daily operational purposes. These funds were pooled with other County funds by the County Treasurer for short-term investment purposes. The County was responsible for controlling and safekeeping all title instruments. Pooled fund investments in the County Investment Pool are managed according to the Investment Policy established by the County and are subject to regulatory oversight by the County's Treasury Oversight Committee. Participation in the County Investment Pool is not mandatory. The fair value of StanCERA's shares in the pooled funds is the same as the value of the County Investment Pool. StanCERA's cash invested with the County Treasurer is reported at amortized cost, which approximates fair value totaling \$0 and \$297,631 June 30, 2023 and 2022, respectively. This decrease is directly correlated with the transition to The Northern Trust Company for StanCERA's treasury needs.

Investments

Investment Policy – StanCERA's policy regarding the allocation of invested assets is established and may be amended by the Board. The investments of the Plan are trust funds. They are held for the exclusive purpose of providing benefits to the participants in the Plan and their beneficiaries and defraying reasonable expenses of administering the Plan. Therefore, the investments shall be diversified to minimize the risk of loss and maximize the rate of return.

StanCERA's Investment Program employs three functional sub-portfolios to construct the comprehensive asset allocation: the Liquidity Sub-portfolio, the Growth Sub-portfolio, and the Diversifying Sub-portfolio. The Liquidity Sub-portfolio will ensure adequate assets are available to pay benefits over an extended timeframe. The Growth Sub-portfolio will grow the invested assets over the long-term to pay future benefits. Finally, the Diversifying Sub-portfolio is to offset the investment risk of the Growth Sub-portfolio. The allocations to the Liquidity, Growth and Diversifying Sub-portfolios will vary over time and will be reviewed annually. The adopted asset allocation for the three Sub-portfolios is:

Asset Class	June 30, 2023 Target Allocation	June 30, 2022 Target Allocation
Domestic Equities	20.00%	20.00%
International Equities	20.00%	20.00%
Fixed Income	16.00%	13.00%
Real Estate Securities	6.50%	6.50%
Alternatives:		
Private Credit	8.00%	8.00%
Private Equity	5.00%	5.00%
Private Real Estate	6.00%	6.00%
Infrastructure	7.50%	7.50%
Risk Parity	10.00%	13.00%
Cash	1.00%	1.00%
	100.00%	100.00%

Rate of Return – For the fiscal years ended June 30, 2023 and June 30, 2022, the annual money-weighted rate of return on StanCERA's investments was 6.8% and -6.4%, respectively. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Fair Value Measurement

Fair value is the price that would be received to sell an investment in an orderly transaction between market participants at the measurement date. StanCERA follows GASB Statement No. 72 (GASB 72), Fair Value Measurement and Application, which addresses accounting and financial reporting issues related to fair value measurement.

Fair Value Measurement (continued)

StanCERA classifies the fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The fair value measurements are classified according to the following hierarchy:

- Level 1 Unadjusted quoted prices for identical investments in active markets.
- Level 2 Quoted prices for similar investments in active markets; quoted prices for identical or similar investments in markets that are not active; and model-derived valuations in which all significant inputs and significant value drivers are observable.
- Level 3 Investments with valuations derived from valuation techniques in which significant inputs or value drivers are unobservable.

Inputs used to measure fair value might fall in different levels of the fair value hierarchy. StanCERA defaults to the lowest level input that is significant to the fair value measurement in its entirety. In determining the appropriate levels, a detailed analysis was performed of the assets and liabilities that are subject to GASB 72.

The following tables present fair value measurements as of June 30, 2023 and June 30, 2022:

Investments Measured at Fair Value

Investments by Fair Value Level	06/30/23	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Fixed Income Securities				
Corporate and Other Credit	\$ 134,708,680	\$ -	\$ 134,708,680	\$ -
Emerging Market Non-U.S. Bonds	40,123,269	-	40,123,269	-
U.S. Government Agency	142,051,575	-	142,051,575	-
U.S. Treasury	16,231,759	-	16,231,759	-
Total Fixed Income Securities	333,115,283		333,115,283	
Equity Securities				
Non-U.S. Equity	427,492,128	427,492,128	_	-
U.S. Equity	216,766,378	216,766,378	_	-
Commingled Equity Funds	347,923,975	-	347,923,975	-
Emerging Market Equity	66,086,521	-	66,086,521	-
Commingled Real Estate Funds	5,417,195	-	5,417,195	-
Total Equity Securities	1,063,686,197	644,258,506	419,427,691	-
Collateral from Securities Lending	83,174,371		83,174,371	
Total Investments by Fair Value Level	\$ 1,479,975,851	\$ 644,258,506	\$ 835,717,345	\$ -
Investments Measured at the Net Asset Value (NAV)				
Private Credit	219,258,183			
Private Equity	146,030,891			
Private Real Estate	318,689,267			
Infrastructure	196,683,219			
Risk Parity	309,953,087			
Total Investments Measured at the NAV	1,190,614,647			
Total Investments	\$ 2,670,590,498			

Fair Value Measurement (continued)

Investments Measured at Fair Value

Investments by Fair Value Level	06/30/22	Ac	oted Prices in tive Markets for Identical Assets (Level 1)	_	nificant Other Observable Inputs (Level 2)	Unob:	nificant servable puts evel 3)
Fixed Income Securities							
Corporate and Other Credit	\$ 84,726,107	\$	-	\$	84,726,107	\$	-
Emerging Market Non-U.S. Bonds	28,521,437		-		28,521,437		-
U.S. Government Agency	146,106,832		-		146,106,832		-
U.S. Treasury	 9,444,312		-		9,444,312		_
Total Fixed Income Securities	268,798,688		-		268,798,688		-
Equity Securities							
Non-U.S. Equity	367,113,432		367,113,432		_		_
U.S. Equity	206,196,280		206,196,280		-		_
Commingled Equity Funds	291,928,074		_		291,928,074		_
Emerging Market Equity	62,306,843		_		62,306,843		_
Commingled Real Estate Funds	40,677,468		_		40,677,468		_
Total Equity Securities	968,222,097		573,309,712		394,912,385		-
Collateral from Securities Lending	 81,116,101				81,116,101		_
Total Investments by Fair Value Level	\$ 1,318,136,886	\$	573,309,712	\$	744,827,174	\$	
Investments Measured at the Net Asset Value (NAV)							
Private Credit	\$ 209,333,195						
Private Equity	144,301,733						
Private Real Estate	331,827,763						
Infrastructure	205,768,782						
Risk Parity	326,684,962						
Total Investments Measured at the NAV	 1,217,916,435						
Total Investments	 2,536,053,321						

Fixed Income Securities

Asset-Backed Securities, Mortgage-Backed Securities, and Non-U.S. Bonds are valued using the discounted cash flow income and matrix market models. Two proprietary discounted cash flow models are used: non-volatile tranche and volatile tranche. Prepayment speeds are derived from market participant quotes along with terms and conditions of the tranche, and both are entered into the model to determine the evaluated price. Matrices are developed based on trade and quote activity of bonds with similar features, including the issuer, vintage, and purpose of the underlying loan, prepayment speeds, and credit ratings to identify trades and quotes for similar securities. Corporate and Municipal Bonds are valued using the matrix market model. Model inputs are derived from the market, brokers, dealers, mutual funds, and vendor client base. Model inputs include, but are not limited

Fair Value Measurement (continued)

to, spread benchmark curves, prepayment speeds, inputs to build curves/spreads, comparable trades, bid price or spread, discount rates, quotes, trade reports, and financial reports. U.S. Government Agencies and U.S. Treasury Bills are valued using the consensus and matrix evaluation models. These model inputs come from market sources and integrate relative credit information, observed market movements, and sector news.

When available, prices are updated regularly by obtaining dealer quotes and other market information, including live trading levels.

Equity Securities

Equity securities are valued using the NASDAQ Official Closing Price, which determines the market specific closing price for NASDAQ listed issues. For equity securities listed on exchanges, the last trade price is used. The last trade price is the price at which a specific security was last traded on the primary exchange. If the NASDAQ Official Closing Price or the last trade price is unavailable, a bid, ask/offer quote, is obtained from a third-party vendor.

Commingled funds are valued using the NAV, which is the fair value of all securities owned by the fund, minus its total liabilities, divided by the number of shares issued. Funds valued using the NAV are usually not reported within the fair value hierarchy. However, StanCERA's commingled funds are supported by audited financial statements, which provide observable market data. Commingled funds are legally or contractually required to redeem at the NAV and therefore are classified as Level 2.

Investments Measured at the NAV

Investments measured at fair value using the net NAV value per share (or its equivalent) as a practical expedient are not classified in the fair value hierarchy.

The following tables present fair value measurements as of June 30, 2023 and June 30, 2022:

	6/30/2023	Unfunded	Redemption Frequency	Redemption
Investments Measured at NAV	Fair Value	Commitment	If Currently Eligible	Notice Period
Private Credit	\$ 219,258,183	\$ 28,803,381	Not Eligible	Not Applicable
Private Equity	146,030,891	63,512,684	Not Eligible	Not Applicable
Private Real Estate	318,689,267	12,890,614	Quarterly, Not Eligible	5-90 Days, Not Applicable
Infrastructure	196,683,219	13,270,618	Not Eligible	Not Applicable
Risk Parity	309,953,087		Monthly	5-15 Days
Total Investments Measured at NAV	\$1,190,614,647	\$ 118,477,297		

Investments Measured at the NAV (continued)

	6/30/2022	Unfunded	Redemption Frequency	Redemption
Investments Measured at NAV	Fair Value	Commitment	lf Currently Eligible	Notice Period
Private Credit	\$ 209,333,195	\$ 33,581,154	Not Eligible	Not Applicable
Private Equity	144,301,733	96,125,279	Not Eligible	Not Applicable
Private Real Estate	331,827,763	22,644,987	Quarterly, Not Eligible	5-90 Days, Not Applicable
Infrastructure	205,768,782	19,033,462	Not Eligible	Not Applicable
Risk Parity	326,684,962	27,000,000	Monthly	5-15 Days
Total Investments Measured at NAV	\$ 1,217,916,435	\$ 198,384,882		

Private Credit Funds consist of investments in twelve limited partnerships. The types of partnership strategies included in these funds are venture capital, growth equity, buyouts, special situations, mezzanine, and distressed debt. These funds are not eligible for redemption. Distributions are received as the underlying funds are liquidated, which can occur over the span of three to seven years. Total commitments for these funds are \$255.0 million, of which \$28.8 million is unfunded.

Private Equity Funds consist of investments in multiple partnerships. The types of partnership strategies included in these funds are growth equity and buyouts. These funds are not eligible for redemption. Distributions are received as the underlying funds are liquidated, which can occur over the span of ten years. Total commitments for these funds are \$170.0 million, of which \$63.5 million is unfunded.

Private Real Estate Funds consist of investments in seven limited partnerships. These funds are mainly invested in U.S. commercial real estate. Shares of three of these funds can be redeemed at the request of the shareholders after a lockout period of up to two years. Distributions from each of these funds will be received as the underlying investments are liquidated. Three of these funds are open-ended and the distributions are reinvested. Liquidation of the underlying investments for one fund can occur over time up to eight years. Total commitments for these funds are \$309.0 million, of which \$12.9 million is unfunded.

Infrastructure Funds consist of four limited partnerships. These funds are focused on opportunities in the energy, utilities and transportation sectors, and target investments in infrastructure assets globally within the Organization for Economic Cooperation and Development countries. The funds are not eligible for redemption. Distributions from this fund will be received as the underlying investments are liquidated, which can occur over the span of twelve years. Total commitments for this fund are \$100.0 million, of which \$13.2 million is unfunded.

Risk Parity Funds are mutual funds that invest in multiple asset classes represented by equity, fixed income, and commodities strategies in order to generate attractive risk-adjusted returns over time. These are open-ended funds and shares can be redeemed at the end of any given month at the request of the shareholder. Distributions for this fund are reinvested into the fund. Total commitments for this fund are \$412.0 million, in which it is fully funded.

Securities Lending Program

The Board permits StanCERA to participate in a securities lending program. StanCERA lends bonds and equities to various brokers for collateral that will be returned for the same securities plus a fee in the future. Transactions are collateralized at 102% of fair value for domestic securities and 105% of fair value for international securities. Collateral received may include cash, letters of credit, or securities. Because the loans were terminable-at-will, their duration did not match the duration of the investments made with cash collateral. Either StanCERA or the borrower can terminate all securities loaned on demand. There are no restrictions on the amount of securities that may be lent.

StanCERA's custodial bank administers its securities lending program. The cash collateral is reported on the financial statements as an asset and as a liability of StanCERA while the non-cash collateral is reported neither as an asset nor a liability in accordance with GASB Statement No. 28. StanCERA cannot pledge or sell collateral securities delivered absent a borrower default. The contract with the securities lending agent requires them to indemnify StanCERA if the borrower fails to return the securities (or if the collateral is insufficient to replace the securities lent) or if the borrower fails to pay StanCERA for income distributions while the securities are on loan.

Investments made with cash collateral are classified by risk category. The average maturity of the loans is one week, and they are rated at least "A1" or "P1" by two nationally recognized statistical rating organizations or, if unrated, are determined by the bank to be of comparable quality. As of June 30, 2023, the fair value of securities on loan was \$81.6 million, with collateral received of \$83.2 million and non-cash collateral of \$25.2 million and non-cash collateral received of \$81.1 million and non-cash collateral of \$15.7 million.

As of June 30, 2023, and 2022, StanCERA had no credit risk exposure to borrowers because the amount StanCERA owes the borrower exceeds the amount the borrower owes StanCERA. StanCERA's pro-rata share of net income derived from the securities lending transactions during fiscal years 2023 and 2022 were \$379,903 and \$301,931 respectively. These are separate investments made on StanCERA's behalf and not StanCERA's share of pooled investments. On June 30, 2023 and 2022, StanCERA had the following securities out on loan:

	June 30, 2023				June 30, 2022			
		Fair Value				Fair Value		
	of Securities on Loan		Collateral Received		of Securities on Loan		Collateral Received	
U.S. Equities	\$	33,791,288	\$	34,567,423	\$	36,766,292	\$	38,105,458
U.S. Corporate Fixed		37,513,361		38,243,715		28,059,801		28,607,150
U.S. Government Fixed		2,828,922		2,890,731		6,630,241		6,769,295
Non-U.S. Equities		7,417,740		7,472,502		7,137,684		7,634,198
Total Securities		81,551,311		83,174,371		78,594,018		81,116,101
Total Non-Cash Collateral		24,428,889		25,213,201		14,132,084		15,732,923
Total	\$	105,980,200	\$	108,387,572	\$	92,726,102	\$	96,849,024

Interest Rate Risk

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Duration is a measure of the price sensitivity of a fixed income portfolio to changes in market interest rates. Generally, the longer the maturity of an investment the greater the sensitivity of its fair value to changes in market interest rates.

Highly sensitive investments are certain debt investments whose terms may cause their fair value to be highly sensitive to market interest rate changes. Terms include such variables as embedded options, coupon multipliers, benchmark indices, and reset dates. StanCERA's fixed income investments have embedded prepayment options that will typically cause prepayments by the obliges of the underlying investments when interest rates fall. Prepayments eliminate the stream of future interest payments and diminish the fair value of the fixed income investment.

The following table shows the effective duration of StanCERA's fixed income investments by investment type.

		June 3	0, 2023		June 30, 2022			
			Effective Duration			Effective Duration		
Fixed Income Securities	Fair Value		(in years)		Fair Value	(in years)		
Corporate and Other Credit	\$	134,708,680	2.7	\$	84,726,107	2.5		
Emerging Market / Non-U.S. Bonds		40,123,269	1.8		28,521,437	2.2		
Government Bonds		16,231,759	3.0		9,444,312	2.0		
Government Agencies		142,051,575	0.0		146,106,832	0.0		
Total Fixed Income Securities	\$	333,115,283		\$	268,798,688			

Credit Risk

Credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. In cases where credit ratings differ among rating agencies, the manager shall use the lowest of the ratings provided. StanCERA's custodial bank provided ratings for Moody's Investor Service (Moody's) and Standard & Poor's (S&P). Should a fixed income security rating fall below investment grade, the manager may continue to hold the security if they believe the security will be upgraded in the future, there is a low risk of default, and buyers will continue to be available throughout the anticipated holding period. The manager is responsible for notifying the Board whenever an issue falls below investment grade. Investment grade quality is defined as a Standard & Poor's rating of BBB or higher. The notification should include the manager's assessment of the issue's credit rating and its ongoing role in the portfolio. The Stanislaus County Investment Pool and the short-term investment funds held with the fiscal agent are unrated.

Credit Risk (continued)

The following table shows the quality of StanCERA's investments in fixed income securities.

	June 30	0, 20	23	June 30, 2022			
	Percentage of		_	Percentage of		_	
S&P/Moody's	Total	Sta	anCERA's Fixed	Total	StanCERA's Fixed		
Credit Rating	Fixed Income	Income Securities		Fixed Income	Income Securities		
Aaa / AAA	1.90%	\$	6,324,891	2.54%	\$	6,835,889	
Aa1 / AA+	0.50%		1,671,248	0.65%		1,736,036	
Aa2 / AA	0.00%		-	0.57%		1,541,953	
Aa3 / AA-	2.56%		8,514,765	2.19%		5,896,214	
A1 / A+	2.77%		9,224,453	3.28%		8,808,869	
A2 / A	7.34%		24,461,667	3.56%		9,556,738	
A3 / A-	9.66%		32,165,859	3.63%		9,745,178	
Baa1 / BBB+	17.46%		58,158,298	10.80%		29,040,457	
Baa2 / BBB	4.19%		13,941,950	8.73%		23,479,293	
Baa3 / BBB-	0.56%		1,878,563	2.57%		6,911,280	
Ba1 / BB+	0.00%		-	0.00%		-	
Ba2 / BB	0.00%		-	0.00%		-	
N/R	53.04%		176,698,715	57.97%		155,802,468	
N/A	0.02%		74,874	3.51%		9,444,313	
Total	100.00%	\$	333,115,283	100.00%	\$	268,798,688	

N/R represents securities that are not rated.

N/A represents securities that are not applicable to the rating disclosure requirements.

Concentration of Credit Risk

Concentration of credit risk is the risk of loss due to a large concentration of investments in any one issuer. Investments issued or explicitly guaranteed by the U.S. Government and investments in mutual funds, external investment pools, and other pooled investments are exempt from the disclosure requirements. As of June 30, 2023 and 2022, for separately managed investment accounts, StanCERA did not have investments in any one issuer representing 5% or more of the total portfolio.

Custodial Credit Risk

Custodial credit risk for deposits is the risk that, in the event of the failure of a depository financial institution, a government will not be able to recover its deposits or will not be able to recover collateral securities that are in possession of an outside party. StanCERA does not have a formal policy for custodial credit risk for deposits. Under the California Government Code, a financial institution is required to secure deposits in excess of \$250,000 made by state or local government units by pledging securities held in the form of an undivided collateral pool. The fair value of the pledged securities in the collateral pool must equal at least 110% of the total amount deposited by the public agencies. California law also allows financial institutions to secure governmental deposits by pledging first deed mortgage notes having a value of 150% of the secure public deposits. Such collateral is held by the pledging financial institution's trust department or agent in StanCERA's name. At fiscal

Custodial Credit Risk (continued)

year-end, StanCERA had no custodial credit risk exposure to any depository financial institution. All deposits are placed with a custodial bank.

Custodial credit risk for investments is the risk that, in the event of the failure of the counter-party (e.g., broker-dealer) to a transaction, a government will not be able to recover the value of its investment or collateral securities that are in possession of another party. StanCERA does not have a formal policy for custodial credit risk for investments. Investment securities are exposed to custodial credit risk if the securities are uninsured, not registered in the governmental entity's name, and held by the counter-party. StanCERA's investment securities are not exposed to custodial credit risk because all securities held by StanCERA's custodial bank are in StanCERA's name.

Foreign Currency Risk

Foreign currency risk is the risk that changes in exchange rates may adversely affect the fair value of an investment. StanCERA's external investment managers may invest in international securities and must follow StanCERA's Investment Guidelines pertaining to these types of investments.

American Depositary Receipts (ADR) are included in U.S. Dollars. ADR represents underlying securities of non-U.S. companies traded on the U.S. stock exchanges. Although the transactions are denominated in U.S. Dollars and not subject to foreign currency risk, these securities are reflected as part of the non-U.S. equities within International Equity Investments reported in the Statement of Fiduciary Net Position.

StanCERA's exposure to foreign currency risk in U.S. dollars is as follows:

	J	lune 30, 2023	June 30, 2022		
Currency	Fair	Value (in U.S. \$)	Fair Value (in U.S. \$)		
Australian Dollar	\$	14,528,571	\$	17,559,620	
Brazilian Real		1,462,287		2,771,857	
British Pound		41,599,726		39,165,740	
Canadian Dollar		38,240,727		34,248,698	
Chilean Peso		-		1,090,695	
Danish Krone		5,056,590		2,736,452	
Euro Dollars		117,733,323		98,430,575	
Hong Kong Dollar		32,340,477		29,631,647	
Hungarian Forint		1,329,644		1,063,629	
Indonesian Rupiah		1,401,366		2,462,753	
Japanese Yen		77,635,089		64,279,445	
Malaysian Renggit		448,942		536,246	
Mexican Peso		2,687,220		852,609	
New Israeli Shekel		1,165,916		534,435	
New Taiwan Dollar		16,100,756		11,849,960	
New Zealand Dollar		-		193,155	
Norwegian Krone		4,378,466		3,847,668	
Singapore Dollar		5,787,434		4,217,408	
South African Rand		1,706,843		1,122,988	
South Korean Won		12,456,784		10,169,332	
Swedish Krona		10,059,788		10,145,394	
Swiss Franc		26,563,356		25,625,871	
Thailand Baht		626,523		476,747	
Turkish Lira		3,117,097		2,210,298	
U.S. Dollar		77,151,724		64,197,053	
TOTAL	\$	493,578,649	\$	429,420,275	

Commitments to Private Credit

On June 30, 2023 and June 30, 2022, StanCERA's total capital commitments to private credit partnerships were \$255,000,000 and \$214,500,000, respectively. Of this amount, \$28,803,381 and \$33,581,154, respectively, remained unfunded and is not recorded on StanCERA's Statement of Fiduciary Net Position.

Commitments to Private Equity

On June 30, 2023 and June 30, 2022, StanCERA's total capital commitments to private equity partnerships were \$170,000,000 and \$145,000,000, respectively. Of this amount, \$63,512,684 and \$96,125,279, respectively, remained unfunded and is not recorded in StanCERA's Statement of Fiduciary Net Position.

Commitments to Private Real Estate

On June 30, 2023 and June 30, 2022, StanCERA's total capital commitments to private real estate partnerships were \$309,000,000 and \$263,000,000, respectively. Of this amount, \$12,890,614 and \$22,644,987, respectively, was unfunded and is not recorded in StanCERA's Statement of Fiduciary Net Position.

Commitments to Infrastructure

On June 30, 2023 and June 30, 2022, StanCERA's total capital commitments to infrastructure were \$100,000,000 for both periods. Of this amount, \$13,270,618 and \$19,033,462, respectively, was unfunded and is not recorded in StanCERA's Statement of Fiduciary Net Position.

Commitments to Risk Parity

On June 30, 2023 and June 30, 2022, StanCERA's total commitments to risk parity were \$412,000,000 and \$362,000,000, respectively. Of this amount, this asset was fully funded for the period ending June 30, 2023; \$27,000,000 remained unfunded as of June 30, 2022. The unfunded amount for 2022 is not recorded in StanCERA's Statement of Fiduciary Net Position.

Investment Expense

Investment expense includes fees paid for investment consulting services, fund evaluation services, and securities custodian services. Fees paid are charged against StanCERA's investment earnings pursuant to Government Code Sections 31596.1 and 31592.5.

NOTE 4 – CASH AND INVESTMENTS (continued)

Investment Expense (continued)

Investment Expense

	June 30, 2023	June 30, 2022
Investment Managers	\$ 11,494,264	\$ 21,484,664
Investment Consultants	531,473	501,233
Custodial Fees	415,345	242,263
Investment Attorney	133,532	130,981
Other Investment Costs	7,075,593	5,376,766
Total Other Investment Expenses	19,650,207	27,735,907
Actuarial Fees	113,290	162,593
Total Investment Expenses	\$ 19,763,497	\$ 27,898,500

NOTE 5 – CONTRIBUTIONS

Contribution Rates

The CERL establishes the retirement plan's basic obligations for employer and member contributions. The actual employer and member contribution rates in effect each year are based on recommendations made by an independent actuary and adopted by the Board.

StanCERA's policy for employer contributions states that actuarially determined rates expressed as a percentage of annual covered payroll are required to accumulate sufficient assets to pay benefits when due. The level percentage of payroll employer contribution rates are determined using the entry age actuarial cost method. StanCERA also uses the level entry age normal cost method with a UAAL to amortize any unfunded liability.

Member basic rates are based on a formula reflecting the age at entry into the Plan. For Tier 5 Safety, the rates are such as to provide an average monthly annuity at age 50 equal to 1/100 of the FAS. Tier 1 General Members pay rates that will provide an average annuity at age 60 of 1/100 of the FAS. Tier 4 General Members pay rates that will provide an average annuity at age 55 of 1/120 of the FAS. County (and former County agency) Safety and General Members in Tiers 1 and 4 pay one-half of the aforementioned rates. General Members in Tier 2 pay rates to provide an average annuity of 1/120 of FAS at age 60. General Members in Tier 3 pay no member contributions. General Members in Tier 5 pay rates to provide an average annuity at age 55 of 1/120 of FAS. General and Safety Tier 6 Members pay approximately half of the actuarial determined normal cost rate for the benefit.

Member cost-of-living contributions, expressed as a percentage of their basic rates, are designed to pay for one-half of the cost-of-living liabilities for future service. For members integrated with Social Security, the above contributions are reduced by 1/3 of that portion of such contribution payable with respect to the first \$350 of monthly salary. Member contributions are refundable upon termination from the retirement system.

NOTE 5 – CONTRIBUTIONS (continued)

Contribution Rates (continued)

Contributions as a percentage of covered payroll for the fiscal year ended June 30, 2023, are shown in the following table:

	_	Employer	Member				
Employer	Contributions			Contributions	as a % of Covered Payroll		
Stanislaus County	\$	93,676,819	\$	29,704,338	27.9333%		
City of Ceres		5,655,899		1,380,379	1.6865%		
Stanislaus Superior Court		4,645,258		1,510,275	1.3852%		
Stanislaus Council of Governments		394,065		150,838	0.1175%		
East Side Mosquito Abatement District		210,523		75,815	0.0628%		
Salida Sanitary District		195,693		63,239	0.0584%		
Keyes Community Services District		98,609		33,119	0.0294%		
Hills Ferry Cemetery District		60,210		17,830	0.0180%		
Stanislaus Regional Transit Authority		152,858		117,017	0.0456%		
	\$	105,089,934	\$	33,052,850	31.3366%		
Covered Payroll	\$	335,358,803					

Contributions as a percentage of covered payroll for the fiscal year ended June 30, 2022, are shown in the following table:

		Employer Member Em		Employer Contributions	
Employer	Contributions			Contributions	as a % of Covered Payroll
Stanislaus County	\$	89,628,043	\$	26,858,915	29.5243%
City of Ceres		5,226,127		1,258,218	1.7215%
Stanislaus Superior Court		4,739,952		1,457,233	1.5614%
Stanislaus Council of Governments		429,752		150,373	0.1416%
East Side Mosquito Abatement District		230,606		72,010	0.0760%
Salida Sanitary District		214,400		60,195	0.0706%
Keyes Community Services District		111,902		32,358	0.0369%
Hills Ferry Cemetery District		72,587		20,026	0.0239%
Stanislaus Regional Transit Authority		114,880		88,751	0.0378%
	\$	100,768,249	\$	29,998,079	33.1940%
Covered Payroll	\$	303,573,549			

NOTE 6 – RESERVES

As required by the CERL, or the Board's policies, the following reserves from Fiduciary Net Position Restricted for Pension Benefits must be established and used to account for the members' (employees and retirees) contributions.

Active Members' Reserve

This reserve represents the cumulative contributions made by active members (employees) after deducting refunds to the members, plus the investment earnings credited to the reserve at the assumed rate of return determined by the actuary. For the fiscal years ended June 30, 2023 and 2022, the actuarially assumed rate of return was 6.75% for both years. Based on Retirement Board policy, when the Plan is below 100% funded on a market basis, the percentage allocated to Active Members' Reserve is capped at the actuarially assumed rate of return and will determine the semi-annual percent of interest to be posted to individual member account balances in the subsequent fiscal year.

Employer Reserves

These reserves represent the cumulative contributions made by the Plan sponsors (employers). Interest earnings are credited to these reserves based on StanCERA's excess earnings policy.

Upon the retirement of an active member, an actuarially determined amount of the member's vested interest is transferred from the Employer Advance Reserve to the Retired Members' Pension Reserve.

Retired Members' Pension Reserve

These reserves are established to account for the unpaid retirees' pension benefits. Upon the retirement of an employee, member contributions plus the interest earnings credited to the member's account are transferred from the Active Members' Reserve account to the Retired Members' Annuity and Cost-of-Living Reserve accounts. StanCERA retiree benefits are paid from these reserves computed in accordance with the CERL. Interest earnings are credited to this reserve based on StanCERA's excess earnings policy.

Retiree Burial Allowance Reserve

The burial allowance reserve is a benefit the Board offers, which pays the named beneficiary of a deceased retiree a lump sum death benefit. This benefit is available for all retirees whose last work in a 1937 Act Retirement System, or California Public Employees Retirement System (CalPERS), was with StanCERA. Interest earnings are credited to this reserve based on StanCERA's excess earnings policy.

Contingency Reserve

This optional reserve represents earnings in excess of the total interest credited to contributions of the employer and employee. It is funded at a minimum of 1% of total valuation reserves prior to excess earnings distribution (Government Code Section 31592). It is used as a reserve against deficiencies in interest earnings in other years, losses on investments, and other contingencies. The Board set this reserve to 1% in May 2012, and it is reviewed and adjusted annually.

NOTE 6 – RESERVES (continued)

Undistributed Earnings/(Losses)

This "designation" account was established on June 30, 2003. It was used to minimize the impact of actuarial smoothing of assets and contains an accumulation of earnings or losses, which have not been distributed to any other reserve. This reserve has undistributed losses of \$31,002,463 and \$199,455,051 as of June 30, 2023 and June 30, 2022, respectively.

Other Reserves

These reserves are for Retirees' Special Cost-of-Living, Tier 3 Disability, and Legal Contingencies. Reserve Account Balances are as follows:

Reserve Account Balances:

	 June 30, 2023	 June 30, 2022
Active Members' Reserve	\$ 694,917,277	\$ 663,494,768
Employer Advance Reserve	466,128,613	361,038,679
Employer Transfer from Non-Valuation Reserve	221,295,870	221,295,870
Retired Members' Pension Reserve	1,280,596,774	1,449,324,129
Undistributed Earnings/(Losses)	(31,002,463)	(199,455,051)
Retiree Burial Allowance Reserve Contingency	3,643,184	4,058,183
Reserve	25,007,665	25,190,780
Other Reserves		
Legal Contingency Reserve	1,253,788	1,476,426
Tier 3 Disability Reserve	1,837	 1,560
Total Reserves	\$ 2,661,842,545	\$ 2,526,425,344

NOTE 7 – LITIGATION

StanCERA is a defendant in various lawsuits and claims arising in the ordinary course of its operations. StanCERA's management and legal counsel estimate the outcome of such litigation will not have a material effect on StanCERA's financial statements.

NOTE 8 - NET PENSION LIABILITY OF PARTICIPATING EMPLOYERS

Actuarial Assumptions

The actuarial assumptions used in the June 30, 2022 valuation were based on the results of an actuarial experience study for the period July 1, 2018 through June 30, 2021. As of the reporting date, measurements are based on the fair value of assets as of June 30, 2022, and the Total Pension Liability as of the valuation date, June 30, 2022, using update procedures to roll forward to StanCERA's fiscal year-end of June 30, 2023. There were no significant events between the valuation date and the measurement date, so the roll forward procedures only included the addition of service cost offset by actual benefit payments.

NOTE 8 – NET PENSION LIABILITY OF PARTICIPATING EMPLOYERS (continued)

Actuarial Assumptions (continued)

The components of the Net Pension Liability of StanCERA on June 30, 2023 and June 30, 2022 were as follows:

	 June 30, 2023	 une 30, 2022	
Total Pension Liability	\$ 3,501,702,089	\$ 3,264,477,126	
Plan Fiduciary Net Position (1)	\$ (2,661,833,729)	\$ (2,526,425,344)	
Net Pension Liability	\$ 839,868,360	\$ 738,051,782	
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	76.0%	77.4%	

⁽¹⁾ Amounts do not agree to Financial Statements due to year-end adjustments increasing StanCERA's reported Fiduciary Net Position by \$8,816.

The Total Pension Liability was determined based on the June 30, 2022 and June 30, 2021 actuarial valuations rolled forward to June 30, 2023 and June 30, 2022, using the following actuarial assumptions, applied to all periods included in the measurement:

ACTUARIAL VALUATION ASSUMPTIONS							
Measurement Date	June 30, 2023	June 30, 2022					
Investment Rate of Return	6.75%, net of investment expenses	6.75%, net of investment expenses					
Projected Salary Increases	2.75%, per year plus merit component based on employee classification and years of service	2.75%, per year plus merit component based on employee classification and years of service					
Attributed to Inflation	2.50%	2.50%					
Cost-of-Living Adjustments	100% of Consumer Price Index (CPI) up to 3.0% annually with banking, 2.4% annual increases assumed	100% of Consumer Price Index (CPI) up to 3.0% annually with banking, 2.4% annual increases assumed					

Post-retirement mortality rates for active Members are specified by the California Public Employees Retirement System (CalPERS) Pre-Retirement Non-Industrial Mortality table adjusted by 102.2% for males and 110.2% for females with generational mortality improvements projected from 2017 using Scale MP-2020. Duty related mortality rates are only applicable for Safety Active Members and are based on the 2021 CalPERS Pre-Retirement Industrial Death table, adjusted by 102.6% for males and 100.9% for females. These mortality base tables are all projected generationally from 2017 using 80% of SOA Scale MP-2020.

NOTE 8 - NET PENSION LIABILITY OF PARTICIPATING EMPLOYERS (continued)

Actuarial Assumptions (continued)

Rates of mortality for retired Members and their beneficiaries are specified by the CalPERS Healthy Annuitant table adjusted by 107.6% for males and 115.3% for females with generational mortality improvements projected from 2017 using Scale MP-2020.

The long-term defined benefit pension plan return expectations were determined using a building-block approach. An inflation forecast is the baseline, and various real return premiums (e.g., bonds, equities, etc.) are added to create nominal return expectations for each asset class. These expectations are combined to produce the long-term expected rate of return by weighting the expected nominal rates of return by the target asset allocation percentages and including an expected return from rebalancing uncorrelated asset classes. Best estimates of geometric real rates of return for each major asset class included in the target asset allocation as of June 30, 2023 and June 30, 2022 are summarized in the following table:

2023	2022
Long-Term Expected	Long-Term Expected
Real Rate of Return	Real Rate of Return
2.10%	4.50%
3.20%	5.10%
2.50%	4.60%
6.70%	7.10%
1.70%	1.00%
3.20%	3.00%
2.80%	2.80%
4.20%	4.30%
3.00%	3.70%
3.10%	3.10%
6.60%	7.90%
6.10%	6.30%
3.80%	5.50%
1.50%	0.50%
	Long-Term Expected Real Rate of Return 2.10% 3.20% 2.50% 6.70% 1.70% 3.20% 2.80% 4.20% 3.00% 3.10% 6.60% 6.10% 3.80%

Discount Rate

The discount rate used to measure the total pension liability for the fiscal years ended June 30, 2023 and June 30, 2022 was 6.75% for both years. The projection of cash flows used to determine the discount rate assumed contributions from Plan members will be made at the current contribution rate and that contributions from the employers will be made at contractually required rates, actuarially determined. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current Plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

NOTE 8 – NET PENSION LIABILITY OF PARTICIPATING EMPLOYERS (continued)

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

The following presents the net pension liability of StanCERA calculated using the discount rate of 6.75% for both years, as well as what the Plan's net pension liability would be if it were calculated using a discount rate that is one percentage point lower (5.75%) or one percentage point higher (7.75%) than the current rate for fiscal years ending June 30, 2023 and 2022:

Sensitivity of Net Pension Liability to Changes in Discount Rate

		 1% Decrease 5.75%	 Current Discount Rate 6.75%	 1% Increase 7.75%
June 30, 2023	Net Pension Liability	\$ 1,312,886,086	\$ 839,868,360	\$ 451,338,810
	Fiduciary Net Position as a Percentage of Total Pension Liability	67.0%	76.0%	85.5%
		1% Decrease 5.75%	Discount Rate 6.75%	1% Increase 7.75%
June 30, 2022	Net Pension Liability	\$ 1,179,281,738	\$ 738,051,782	\$ 375,638,381
	Fiduciary Net Position as a Percentage of Total Pension Liability	68.2%	77.4%	87.1%

NOTE 9 – SUBSEQUENT EVENTS

StanCERA has evaluated events through November 20, 2023, which is the date the financial statements were issued, and no additional events were noted.

REQUIRED SUPPLEMENTARY INFORMATION

Schedule of Changes in Net Pension Liability and Related Ratios

		June 30, 2023	J	lune 30, 2022	June 30, 2021		June 30, 2020	June 30, 2	019	Jun	ne 30, 2018	June 30, 20	7	June 30, 2016	June 30, 2015	J	une 30, 2014
Total Pension Liability																	
Service cost	\$	69,215,815	\$	64,358,603 \$	63,478,900	\$	63,771,013		7,490		58,007,036			55,351,509			46,209,346
Interest (includes interest on service cost)		216,947,110		209,931,610	208,474,350		198,170,462	198,46	0,567		190,493,637	179,875	553	171,938,615	154,850,35	3	147,384,248
Changes of benefit terms									. .				-			-	-
Differences between expected and actual experience		122,844,341		42,127,626	7,977,049		30,766,201	15,20			(12,172,006)	28,801	984	(6,424,597)	2,148,638	3	-
Changes of assumptions (3)				(47,905,050)	8,082,679			(46,04	. ,				-	269,752,272		-	-
Benefit payments, including refunds of member contributions		(171,782,303)		(162,309,198)	(150,930,902)		(139,985,594)	(131,77			(123,172,116)	(116,843		(108,165,810)	(101,858,15	,	(94,782,471)
Net change in total pension liability		237,224,963		106,203,591	137,082,076		152,722,082	95,80			113,156,551	149,298		382,451,989	103,383,19		98,811,123
Total pension liability - beginning		3,264,477,126		3,158,273,535	3,021,191,459		2,868,469,377	2,772,66	7,458	2,	,659,510,907	2,510,211	948	2,127,759,959	2,024,376,76	l	1,925,565,638
Total pension liability - ending	\$	3,501,702,089	\$	3,264,477,126 \$	3,158,273,535	\$	3,021,191,459	2,868,46	9,377	\$ 2	,772,667,458 \$	2,659,510	907	2,510,211,948	\$ 2,127,759,959	\$	2,024,376,761
Fiduciary Net Position																	
Contributions - employer	\$	105,089,934	\$	100,768,249 \$	93,307,629	\$	92,684,609	88,58	9,381	\$	76,966,471	63,024	560	58,196,310	\$ 53,849,03	l \$	46,763,996
Contributions - member (1)(4)		33,052,812		29,998,079	29,553,123		29,645,645	27,74	2,863		26,746,289	25,463	745	23,916,508	22,960,23	5	21,867,911
Total investment income (loss) (4)		173,409,516		(169, 153, 892)	556,195,650		18,496,772	99,28	0,525		154,988,199	252,309	705	(31,322,276)	68,722,78		274,896,108
Benefit payments, including refunds of member contributions		(171,782,303)		(162,309,198)	(150,930,902)		(139,985,594)	(131,77	4,691)	((123,172,116)	(116,843	858)	(108,165,810)	(101,858,156	3)	(94,782,471)
Administrative expense (4)		(4,361,574)		(3,475,764)	(3,393,869)		(3,216,625)	(2,55	7,391)		(2,791,409)	(2,644	554)	(2,315,223)	(2,378,96	3)	(2,249,260)
Net change in fiduciary net position		135,408,385		(204,172,526)	524,731,631		(2,375,193)	81,28	0,687		132,737,434	221,309	598	(59,690,491)	41,294,92	5	246,496,284
Fiduciary net position - beginning		2,526,425,344		2,730,597,870	2,205,866,239		2,208,241,432	2,126,96	0,745	1.	,994,223,311	1,772,913	713	1,832,604,204	1,791,309,279	9	1,544,812,995
Fiduciary net position - ending (4)	\$	2,661,833,729	¢	2,526,425,344 \$	2,730,597,870	\$	2,205,866,239	2,208,24	1 //32	\$ 2	,126,960,745	1,994,223	311	3 1,772,913,713	\$ 1,832,604,204	1 \$	1,791,309,279
	Ψ	2,001,000,720	Ψ	Σ,320,423,344 ψ	2,730,337,070	Ψ	2,203,000,233	2,200,24	1,402	Ψ Ζ,	,120,300,743 4	1,004,220	011 4	1,772,313,713	Ψ 1,002,004,20	ŧΨ	1,731,303,273
Net pension liability - ending	\$	839,868,360	\$	738,051,782 \$	427,675,665	\$	815,325,220	660,22	7,945	\$	645,706,713	665,287	596	737,298,235	\$ 295,155,75	5 \$	233,067,482
Fiduciary net position as a percentage of the total pension liability		76.0%		77.4%	86.5%		73.0%		77.0%		76.7%	7:	5.0%	70.6%	86.1	%	88.5%
Covered payroll (2)	\$	335,849,727	\$	303,573,549 \$	298,044,207	\$	300,352,383	281,97	9,654	\$	268,009,042 \$	255,646	515 \$	245,751,576	\$ 237,263,160	\$	221,863,110
Net pension liability as a percentage of covered payroll		250.1%		243.1%	143.5%		271.5%	2	34.1%		240.9%	26).2%	300.0%	124.4	%	105.1%

Note: Trend Information: Schedule will ultimately show information for ten years. Additional years will be displayed as they become available.

- (1) In accordance with GASB Statement No. 82, employer-paid member contributions are classified as Member Contributions.
- (2) In accordance with GASB Statement No. 82, Covered Payroll is the payroll on which contributions are based.

⁽³⁾ In 2016, amounts reported as changes of assumptions resulted primarily from changes to the assumed earnings rate from 7.75% to 7.25% and from adjustments to assumed life expectancies as a result of adopting mortality tables with generational improvements. In 2019, amounts reported as changes of assumptions resulted primarily from changes to the assumed earnings rate from 7.25% to 7.00% and from adjustments to mortality rates, disability rates, and retirement rates. In 2021, amounts reported as changes of assumptions resulted primarily from changes to the assumed earnings rate from 7.00% to 6.75% and from adjustments to mortality rates, and retirement rates. In 2022, amounts reported are due to changes in economic assumptions.

⁽⁴⁾ Amounts reported for fiscal year ending June 30, 2023, do not agree to Financial Statements due to year-end adjustments increasing StanCERA's reported Fiduciary Net Position by \$8,816. The following line items are understated: Member contributions by \$38, net investment income by \$9,141, and administrative expenses by \$363.

REQUIRED SUPPLEMENTARY INFORMATION (continued)

Schedule of Employer Contributions

Last 10 Fiscal Years for Fiscal Years Ending June 30 (Dollar amounts in thousands)

	2023	2022	2021	2020	2019
Actuarially Determined Contributions Contributions in Relation to the	\$ 105,090	\$ 100,768	\$ 93,308	\$ 92,685	\$ 88,589
Actuarially Determined Contributions	105,090	100,768	93,308	92,685	88,589
Contribution Deficiency/(Excess)	\$ -	\$ -	\$ -	\$ -	\$ -
Covered Payroll (1) Contributions as a Percentage of	\$ 335,850	\$ 303,574	\$ 298,044	\$ 300,352	\$ 281,980
Covered Payroll	31.29%	33.19%	31.31%	30.86%	31.42%
	2018	2017	2016	2015	2014
Actuarially Determined Contributions Contributions in Relation to the	\$ 76,966	\$ 63,025	\$ 58,196	\$ 53,849	\$ 46,764
Actuarially Determined Contributions	76,966	63,025	58,196	53,849	46,764
Contribution Deficiency/(Excess)	\$ -	\$ -	\$ -	\$ -	\$ -
Covered Payroll (1) Contributions as a Percentage of	\$ 268,009	\$ 255,647	\$ 245,752	\$ 237,263	\$ 221,863
Covered Payroll	28.72%	24.65%	23.68%	22.70%	21.08%

⁽¹⁾ In accordance with GASB Statement No. 82, Covered Payroll is the payroll on which contributions are based.

Schedule of Investment Returns

Last 10 Fiscal Years for Fiscal Years Ending June 30

	2023	2022	2021	2020	2019
Annual money-weighted rate of return, net of investment expense	6.78%	-6.40%	25.20%	1.30%	5.10%
	2018	2017	2016	2015	2014
Annual money-weighted rate of return, net of investment expense	8.10%	14.40%	-1.70%	4.20%	18.20%

NOTES TO REQUIRED SUPPLEMENTARY INFORMATION

Changes of benefit terms

There were no changes of benefit terms for the fiscal year ended June 30, 2023.

Changes of assumptions

There were no changes in economic assumptions for the fiscal year ended June 30, 2023.

Methods and Assumptions Used in Calculations of Actuarially Determined Contributions

The actuarially determined contribution amounts in the schedule of employer contributions are calculated using the actuarial valuation as of June 30, 2021, two years prior to the end of the fiscal year in which contributions are reported. The following actuarial methods and assumptions were used to determine contribution rates reported in that schedule:

ACTUARIAL VALUATION METHODS AND ASSUMPTIONS

Valuation Date 6/30/2021

Actuarial Cost Method Entry Age Normal

Amortization Method Level Percent of Pay

Remaining Amortization Period Closed period - 15 Years

Asset Valuation Method Actuarial value: Excess earnings smoothed over five (5) years, 80% / 120% corridor around

market

Actuarial Assumptions

Investment Rate of Return 6.75%, net of investment expenses

Projected Salary Increases 2.75%, plus service-based rates

Attributed to Inflation 2.50%

Cost-of-Living Adjustments 100% of CPI to 3.0% annually with banking, 2.6% annual increases assumed

Mortality Rates of ordinary death for active Members are specified by the 2021 CalPERS Pre-

Retirement Non-Industrial Mortality table, adjusted by 102.2% for males and 110.2% for females, with generational mortality improvements projected from 2017 using Scale MP-2020. Duty related mortality rates are only applicable for Safety Active Members and are based on the CalPERS Pre-Retirement Individual Death table without adjustment or

projection.

Rates of mortality for healthy retired Members and their beneficiaries are specified by the 2021 CalPERS Healthy Annuitant table, adjusted by 107.6% for males and 115.3% for females, with generational mortality improvements projected from 2017 using Scale MP-

2020. Separate mortality assumptions are used for disabled retirees.

A complete description of the methods and assumptions used to determine contribution rates for the year ending June 30, 2023 can be found in the June 30, 2021 actuarial valuation report located on StanCERA's website, www.stancera.org.

OTHER SUPPLEMENTAL INFORMATION SCHEDULE OF ADMINISTRATIVE EXPENSES For the Fiscal Years Ended June 30, 2023 and 2022

	2023	2022
Personnel Services:		
Salaries and Employee Benefits	\$ 2,219,819	\$ 1,991,845
Total Personnel Services	2,219,819	1,991,845
Professional Services:		
Computer and Software Services and Support	364,978	317,773
Outside Legal Counsel	432,364	506,614
Disability Hearing Officer/Medical Exams and Reviews	10,100	6,000
External Audit Fees	50,800	44,924
Other Professional Services	27,838	10,320
Total Professional Services	886,080	885,631
Office Expenses:		
Office Supplies	30,020	23,343
Stanislaus County Support Services	247,891	167,443
Contract Services	40,212	37,660
Minor Equipment and Computer Supplies	38,288	590
Communications	63,386	38,669
Publications	1,676	3,015
Total Office Expenses	421,473	270,720
Miscellaneous:		
Fiduciary and Staff - Education/Travel	69,005	34,945
Memberships	14,659	11,810
Fiduciary and Staff - Meetings/Other Travel	6,300	6,900
Insurance	173,339	130,572
Depreciation	571,263	143,341
Total Miscellaneous	834,566	327,568
TOTAL ADMINISTRATIVE EXPENSES	\$ 4,361,938	\$ 3,475,764

OTHER SUPPLEMENTAL INFORMATION (continued) SCHEDULE OF INVESTMENT MANAGEMENT FEES AND OTHER INVESTMENT EXPENSES

For the Fiscal Years Ended June 30, 2023 and 2022

	 2023	 2022
Investment Management Fees:	_	
Domestic Equity	\$ 767,460	\$ 1,199,647
International Equity	905,352	1,885,731
Fixed Income	214,771	198,418
Private Credit	1,902,192	2,874,362
Private Equity	1,350,919	1,731,188
Private Real Estate	1,269,237	7,121,002
Infrastructure	1,887,926	1,226,325
Real Estate Securities	8,067	91,860
Risk Parity	 3,188,340	5,156,131
Total Investment Management Fees	11,494,264	21,484,664
Investment Consulting Fees	531,473	501,233
Investment Custodian Fees	415,345	242,263
Investment Legal Fees	133,532	130,981
Other Investment Related Expenses	 7,075,593	5,376,766
Total Other Investment Expenses	 8,155,943	6,251,243
Actuarial Fees	 113,290	 162,593
TOTAL INVESTMENT EXPENSES	\$ 19,763,497	\$ 27,898,500

SCHEDULE OF PAYMENTS TO CONSULTANTS For the Fiscal Years Ended June 30, 2023 and 2022

	2023	2022
Investment Professional Service Fees:		
Investment Consultants	\$ 531,473	\$ 501,233
Custodial Fees	415,345	242,263
Investment Attorney	133,532	130,981
Actuarial Fees	113,290	162,593
Total Investment Professional Service Fees	\$ 1,193,640	\$ 1,037,070
Administrative Professional Services Fees:		
Administrative Professional Services Fees		
Computer and Software Services and Support	\$ 364,978	\$ 317,773
Outside Legal Counsel	432,364	506,614
Disability Hearing Officer/Medical Exams and Reviews	10,100	6,000
External Audit Fees	50,800	44,924
Other Professional Services	27,838	10,320
Total Administrative Professional Services Fees	\$ 886,080	\$ 885.631

INVESTMENT SECTION

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Daniel Hennessy, CFA, CAIA Senior Consultant

September 30, 2023

Board of Retirement Stanislaus County Employees' Retirement System 832 12th Street, Suite 600 Modesto, CA 95354

Dear Board Members:

The overall objective of the Stanislaus County Employees' Retirement System (StanCERA) is to ensure continued access to retirement, disability and survivor benefits for current and future StanCERA participants. To ensure a solid foundation for the future of the Fund, StanCERA carefully plans and implements an investment program designed to produce superior long-term investment returns, while prudently managing the risk in the portfolio. Investment policy and asset allocation are reviewed and revised by the Board of Retirement, at least annually, to reflect the Fund's actuarial assumptions, accrued liabilities, and economic and investment outlook. The following is a report on the performance of the Fund for the year ended June 30, 2023 with background on the underlying capital market environment.

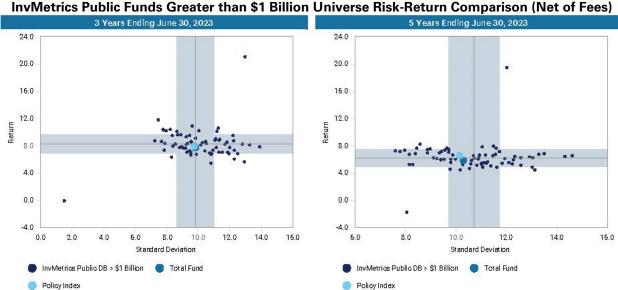
Market Review for the Year Ended June 30, 2023

Fiscal Year ('FY') 2023 was one characterized by strong returns in risky assets like stocks while interest sensitive fixed income, inflation-sensitive assets, commodities and real estate declined in value. The U.S. economy showed its resilience in the face of rapidly rising interest rates and posted moderate GDP growth and showed signed of a healthy labor market. The fiscal year ended with inflation levels increasing 3% on a year-over-year basis, which is a notable deceleration from last year's 9.1% increase though still above the Federal Reserve's target inflation rate of 2.0%. In its efforts to combat inflation, over the past fiscal year, the Federal Reserve raised the Fed Funds rate eight times, from a range of 1.50% - 1.75% ending FY 2022 to 5.00% - 5.25% ending FY 2023. Similar actions were taken by other central banks globally. With the resilient U.S. economy and decelerating inflation as the backdrop, U.S. stocks posted strong returns of 16.1% as measured by the S&P 500 Index. International stocks also had a strong year, with a return of 18.8% as measured by the MSCI EAFE Index. Emerging markets stocks underperformed both U.S. and international-developed markets posting an anemic 1.8% return as measured by the MSCI Emerging Markets Index. Typically considered a safe-haven asset, U.S. high quality fixed income returns posted a second consecutive negative yearly return as the pace of interest rate hikes eroded value in the Bloomberg U.S. Aggregate Bond Index which posted a decline of -0.9%.

The StanCERA Investment Portfolio

The StanCERA total investment portfolio return, net of fees was 6.8% for the year ended June 30, 2023 and underperformed its benchmark return by 2.7%. The median fund in the InvMetrics peer group universe of large Public Funds returned 7.6% in the same period. The Fund's five-year return net-of-fees for the period ended June 30, 2023 underperformed its policy benchmark by 0.7% and returned 5.9% while ranking in the 66th percentile in its peer group. That is, in the past five years,

StanCERA returns are lower than 66% of its peer group. Over the past 10 years, the Fund's return of 7.1% outperformed its actuarial rate of return and ranked in the 48th percentile in its peer group. Assessing StanCERA risk profile, the 3-year and 5-year standard deviation ranked in the 47th and 41st percentile in its peer group (less volatile than average), resulting in risk-adjusted returns (as measured by the Sharpe Ratio) that rank in the 53rd percentile over 5-years.



As strong capital market returns were realized across risky assets like stocks in the past fiscal year, as expected, StanCERA returns trailed plans with a greater allocation to stocks. NEPC continues to be supportive in StanCERA's chosen asset allocation which reduces the Fund's volatility risk to more consistently meet its actuarial targets. Lower public equity exposure and broader diversification can help protect portfolios from significant declines. StanCERA is also steadily increasing its exposure

to private market strategies which have often produced superior risk-adjusted returns over the last

NEPC, LLC serves as StanCERA's independent investment consultant and provides StanCERA with asset allocation guidance, quarterly economic and investment market updates and performance reviews, together with investment manager monitoring and selection advice. Rates of return are represented using a time-weighted rate of return methodology based upon reported market values as of June 30, 2023. At that time a portion of StanCERA's assets were invested in private equity and private credit strategies, which reflected 3/31/2023 valuations.

Sincerely,

decade.

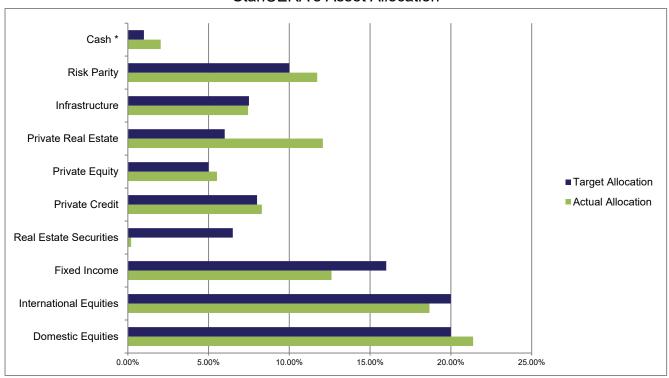
Daniel Hennessy, Senior Consultant

ASSET ALLOCATION JUNE 30, 2023

Asset Class	Fair Value	Actual Allocation	Target Allocation
Domestic Equities	\$ 564,690,354	21.38%	20.00%
International Equities	493,578,649	18.68%	20.00%
Fixed Income	333,115,284	12.61%	16.00%
Real Estate Securities	5,417,195	0.21%	6.50%
Private Credit	219,258,183	8.30%	8.00%
Private Equity	146,030,890	5.52%	5.00%
Private Real Estate	318,689,267	12.08%	6.00%
Infrastructure	196,683,219	7.45%	7.50%
Risk Parity	309,953,086	11.73%	10.00%
Cash *	53,817,882	2.04%	1.00%
TOTAL PORTFOLIO**	\$ 2,641,234,009	100.00%	100.00%

^{*} Excludes Pooled Cash in County Treasury of -\$58,881.

StanCERA's Asset Allocation



^{*} Excludes Cash in Northern Trust \$13,887,033.

^{**} Excludes Securities Lending Cash Collateral.

SCHEDULE OF INVESTMENT RETURNS As of June 30, 2023

Investment Managers	One Year	Three Year	Five Year	Ten Year
DOMESTIC EQUITY				
U.S. Equities	18.7%	15.8%	10.7%	11.7%
Russell 3000 Index	19.0%	13.9%	11.4%	12.3%
U.S. Large Equity	19.0%	14.9%	12.1%	12.7%
Russell 1000 Index	19.4%	14.1%	11.9%	12.6%
eV US Large Cap Equity Net Rank	36.00	28.00	26.00	28.00
U.S. Small Equity	17.4%	20.3%	6.1%	8.3%
Russell 2000 Index	12.3%	10.8%	4.2%	8.3%
eV US Small Cap Value Equity Net Rank	18.00	25.00	36.00	46.00
Dodge & Cox	12.4%	17.9%	9.6%	11.1%
Russell 1000 Value Index	11.5%	14.3%	8.1%	9.2%
eV US Large Cap Value Equity Net Rank	42.00	16.00	31.00	18.00
- · · · · · · · · · · · · · · · · · · ·				
BlackRock R1000 Value	11.5%	14.3%	8.2%	9.3%
Russell 1000 Value Index	11.5%	14.3%	8.1%	9.2%
eV US Large Cap Value Equity Net Rank	51.00	58.00	61.00	60.00
BlackRock R1000 Growth	27.1%	13.7%	15.1%	15.7%
Russell 1000 Growth Index	27.1%	13.7%	15.1%	15.7%
eV US Large Cap Growth Equity Net Rank	26.00	17.00	9.00	10.00
Attucks Small Cap	17.4%	20.3%	6.1%	9.0%
Russell 2000 Value Index	6.0%	15.4%	3.5%	7.3%
eV US Small Cap Value Equity Net Rank	18.00	25.00	36.00	30.00
FIXED INCOME				
Northern Trust Intermediate Gov't Bond	-1.1%	-2.9%	0.8%	N/A
BBgBarc US Govt Int TR	-1.0%	-2.8%	0.8%	N/A
Northern Trust Long Term Gov't Bond	-6.9%	-11.2%	-0.4%	N/A
BBgBarc US Govt Long TR	-6.8%	-12.0%	-0.9%	N/A
INTERNATIONAL EQUITY				
LSV Asset Management	15.8%	11.5%	4.1%	5.5%
MSCI ACWI ex US Index	12.2%	10.4%	2.7%	3.7%
Fidelity Asset Management	13.7%	7.8%	4.4%	5.3%
MSCI ACWI ex US Index	13.3%	4.0%	4.1%	5.6%
REAL ESTATE SECURITIES				
BlackRock US Real Estate Index	-90.0%	9.0%	3.2%	5.7%
DJ US Select RESI TR USD	-80.0%	9.1%	3.3%	5.7%
PRIVATE CREDIT *				
Abry Senior Equity, VI, L.P.	4.8%	N/A	N/A	N/A
S&P/LSTA Leveraged Loan Index + 2%	12.9%	8.4%	6.2%	6.1%
Black Rock High Yield	8.5%	N/A	N/A	N/A
Bloomberg US High Yield TR	9.1%	3.1%	3.4%	4.4%
Medley Opportunity Fund II	63.0%	9.9%	-0.9%	1.1%
S&P/LSTA Leveraged Loan Index + 2%	12.9%	8.4%	6.2%	6.1%
Monroe Private Credit IV	29.3%	N/A	N/A	N/A
S&P/LSTA Leveraged Loan Index + 2%	12.9%	8.4%	6.2%	6.1%
Owl Rock First Lien	9.2%	13.9%	N/A	N/A
S&P/LSTA Leveraged Loan Index + 2%	12.9%	8.4%	6.2%	6.1%
	4.7%	7.0%		
Raven Opportunity Fund III			8.0%	N/A 6.19/
S&P/LSTA Leveraged Loan Index + 2%	12.9%	8.4%	6.2%	6.1%
Strategic Values Special Solutions Fund V, L.P.	3.7%	N/A	N/A	N/A
S&P/LSTA Leveraged Loan Index + 2%	12.9%	8.4%	6.2%	6.1%
White Oak Global Advisors	-3.9%	6.4%	3.3%	N/A
S&P/LSTA Leveraged Loan Index + 2%	12.9%	8.4%	6.2%	6.1%

SCHEDULE OF INVESTMENT RETURNS (continued) As of June 30, 2023

Investment Managers PRIVATE EQUITY *	One Year	Three Year	Five Year	Ten Year
Blue Wolf Capital Fund V-A, L.P.	N/A	N/A	N/A	N/A
Russell 3000 + 3%	22.5%	17.3%	14.7%	15.7%
Clayton, Dublier, & Rice	-1.1%	N/A	N/A	N/A
Russell 3000 + 3%	22.5%	17.3%	14.7%	15.7%
Genstar Capital Partners X	-7.7%	N/A	N/A	N/A
Russell 3000 + 3%	22.5%	17.3%	14.7%	15.7%
Great Hill EP VIII	N/A	N/A	N/A	N/A
Russell 3000 + 3%	22.5%	17.3%	14.7%	15.7%
Gryphon Partners VI LP	-19.6%	N/A	N/A	N/A
Russell 3000 + 3%	22.5%	17.3%	14.7%	15.7%
Insight Partners XI	-24.8%	22.6%	N/A	N/A
Russell 3000 + 3%	22.5%	17.3%	14.7%	15.7%
Northern Trust Russell 3000				
	19.0% <i>19.0%</i>	13.9%	N/A	N/A
Russell 3000		13.9% N/A	11.4%	12.3%
Sole Source Capital Partners II	23.1%		N/A	N/A
Russell 3000 + 3%	22.5%	17.3%	14.7%	15.7%
Vista Foundation Fund IV	-3.4%	-41.4%	N/A	N/A
Russell 3000 + 3%	22.5%	17.3%	14.7%	15.7%
PRIVATE REAL ESTATE *	7 10/	0.50/	6.90/	NI/A
Prime Property Fund	-7.1%	8.5%	6.8%	N/A
NCREIF ODCE	-10.0%	8.0%	6.5%	N/A
PGIM Real Estate U.S. Debt Fund	6.9%	5.5%	N/A	N/A
BBgBarc US CMBS Investment Grade	-1.9%	-2.7%	N/A	N/A
American Strategic Value Realty	-6.5%	7.4%	7.1%	N/A
NCREIF Property Index	-6.6%	6.8%	5.9%	N/A
Greenfield Acquisition Partners VII	1.9%	5.8%	8.0%	N/A
NCREIF ODCE +1%	-9.1%	9.1%	7.6%	N/A
PRIVATE REAL ESTATE * (Continued)				
Grandview Partners I	-10.1%	17.2%	19.3%	N/A
NCREIF ODCE +1%	-9.1%	9.1%	7.6%	N/A
Grandview Partners II	1.3%	N/A	N/A	N/A
NCREIF ODCE +1%	-9.1%	N/A	N/A	N/A
INFRASTRUCTURE *				
JP Morgan IIF Hedged LP	10.6%	N/A	N/A	N/A
CPI + 5%	8.1%	N/A	N/A	N/A
Palistar Infrastructure II	5.8%	N/A	N/A	N/A
CPI + 5%	8.1%	N/A	N/A	N/A
North Haven Partners II	10.5%	7.7%	8.8%	9.6%
CPI + 5%	8.1%	11.1%	9.1%	8.6%
Northern Trust Infrastructure Fund	1.8%	N/A	N/A	N/A
CPI + 5%	2.3%	N/A	N/A	N/A
RISK PARITY				
AQR Global Risk Premium - EL	-1.8%	1.6%	2.6%	N/A
60% MSCI ACWI	9.2%	4.5%	4.6%	N/A
PanAgora Risk Parity Multi Asset	-9.8%	-2.5%	1.0%	N/A
60% MSCI ACWI	9.2%	4.5%	4.6%	N/A
Graham Global Investment Fund I SPC LTD	3.0%	N/A	N/A	N/A
HFRI Macro Index	-0.4%	N/A	N/A	N/A
Invesco Global	12.1%	N/A	N/A	N/A
30 Day T-Bill + 4%	7.9%	N/A	N/A	N/A
TOTAL FUND	6.7%	7.7%	5.9%	7.1%
Policy Index	9.5%	8.0%	6.6%	7.3%
i oney maox	0.070	0.070	3.370	

Note: % taken from NEPC Quarterly Report presented to Board of Retirement on 7/25/2023. Using time-weighted rate of return based on the market rate of return. Does not include Securities Lending Collateral.

^{*} Investment Rate of Return (IRR) since inception is reported. One, three, five, and ten year returns are not available for these investments.

SCHEDULE OF INVESTMENTS BY ASSET CLASS AND MANAGER As of June 30, 2023

		Assets Under	
Investment Managers	Asset Class	Management	% of Fund
DOMESTIC EQUITY			
BlackRock R1000 Growth	Large Cap Growth	\$ 233,031,122	8.82%
BlackRock R1000 Value	Large Cap Value	114,892,853	4.35%
Capital Prospects	Small Cap Value	104,032,254	3.94%
Dodge & Cox	Large Cap Value	112,734,124	4.27%
FIXED INCOME			
Insight	Core Bond	192,057,755	7.27%
NT Intermediate Bond	Core Bond	100,096,995	3.79%
NT Long Term Bond	Core Bond	40,960,534	1.55%
INTERNATIONAL EQUITY			
LSV Asset Management	Equity Value	261,334,793	9.89%
Fidelity Asset Management	Equity Growth	232,243,856	8.79%
REAL ESTATE SECURITIES			
BlackRock US Real Estate	Real Estate Index	5,417,195	0.21%
PRIVATE CREDIT			
Abry VI	Private Credit	7,312,932	0.28%
BlackRock High Yield	Private Credit	84,261,019	3.19%
Callodine Loan Fund II LP	Private Credit	12,783,984	0.48%
Medley Opportunity Fund II	Private Credit	1,515,319	0.06%
Monroe Fund IV	Private Credit	17,268,820	0.65%
Owl Rock First Lien	Private Credit	9,831,950	0.37%
Raven Opportunity Fund I (Closed)	Private Credit	(2)	0.00%
Raven Opportunity Fund III	Private Credit	54,043,609	2.05%
Strategic Values Special Solutions Fund V, L.P.	Private Credit	5,802,621	0.22%
White Oak Global Advisors	Private Credit	26,437,931	1.00%
PRIVATE REAL ESTATE			
American Realty Advisors	Private Real Estate	84,650,893	3.20%
Grandview I-A	Private Real Estate	18,712,031	0.71%
Grandview II	Private Real Estate	16,974,770	0.64%
Grandview in Greenfield Acquisition Partners VII LP	Private Real Estate	1,111,515	0.04%
PGIM	Private Real Estate	97,498,324	3.69%
Prime Property Fund	Private Real Estate	100,243,156	3.80%
TA Realty Value Fund XIII	Private Real Estate	(501,422)	0.00%
TA Realty Value Fully All	1 IIVate Near Estate	(501,422)	0.0070
PRIVATE EQUITY	Private Equity	14.056	0.00%
Audax Private Equity VII-A Blue Wolf V	Private Equity Private Equity	14,956 3,097,505	0.00%
Clayton, Dubilier & Rice XI	Private Equity Private Equity	15,030,408	0.57%
Genstar Capital Partners X		9,879,881	0.37%
Great Hill EP VIII	Private Equity	3,274,371	0.12%
Gryphon Partners VI	Private Equity	17,193,714	0.65%
Insight Partners XI	Private Equity	21,477,576	0.81%
Northern Trust Russell 3000	Private Equity	47,295,943	1.79%
Sole Source Partners II	Private Equity	14,022,002	0.53%
Vista Foundation IV Fund	Private Equity	14,744,534	0.56%

SCHEDULE OF INVESTMENTS BY ASSET CLASS AND MANAGER (continued) As of June 30, 2023

Investment Managers	Asset Class	Management	% of Fund
INFRASTRUCTURE			
IFM Global Infrastructure Fund	Infrastructure	54,830,313	2.08%
JP Morgan IIF	Infrastructure	33,096,868	1.25%
NTAM Infrastructure	Infrastructure	80,758,810	3.06%
North Haven Partners II LP	Infrastructure	13,627,486	0.52%
Palistar Infrastructure II	Infrastructure	14,369,742	0.54%
RISK PARITY			
AQR	Risk Parity	120,416,057	4.56%
Graham Fund I	Risk Parity	55,847,648	2.11%
Invesco	Risk Parity	28,460,703	1.08%
PanAgora	Risk Parity	105,228,679	3.98%
Total Assets Under Management		2,587,416,127	
Cash and Short-Term Investments	90 Day T-Bill	53,817,882	2.04%
Total Fund		\$ 2,641,234,009	100.00%

Note: Does not include Securities Lending Collateral.

Does not include cash in Treasury Pool.

LARGEST BOND HOLDINGS (BY FAIR VALUE) JUNE 30, 2023

Shares	Bond	Fair Value
4,500,000	DISNEY WALT CO 2.2% DUE 01-13-2028 REG	\$ 4,066,651
4,600,000	UNITED STATES TREAS NTS DTD 06/30/2021 1.25% 06-30-2028	4,004,156
4,250,000	WASTE MGMT INC DEL 3.15% DUE 11-15-2027	3,979,646
3,700,000	IBM CORP 4.15% DUE 07-27-2027 BEO	3,597,816
3,300,000	BAKER HUGHES A GE CO LLC/BAKER HUGHES 3.337% 12-15-2027	3,057,269
3,200,000	ENTERGY LA LLC 3.25% DUE 04-01-2028	2,943,044
3,300,000	NVIDIA CORP 1.55% 06-15-2028	2,879,994
2,900,000	CATERPILLAR FINL 3.6% DUE 08-12-2027	2,791,591
2,845,000	CAMPBELL SOUP CO 3.95% DUE 03-15-2025	2,764,698
2,800,000	ABBOTT LABS 3.75% DUE 11-30-2026	2,729,859
3,000,000	PVTPL MASSMUTUAL GLOBAL FUNDIN 1.2% 07-16-2026	2,651,833
2,693,000	COLUMBIA PIPELN 4.5% DUE 06-01-2025	2,627,863
2,700,000	SYNCHRONY CARD 3.86% DUE 07-15-2028	2,618,347
2,400,000	TCI COMMUNICATIONS 7.125% DUE 02-15-2028	2,616,256
2,800,000	VERIZON 2.625% DUE 08-15-2026	2,602,708
3,000,000	WEC ENERGY GROUP 1.375% DUE 10-15-2027	2,562,046
2,600,000	BA CR CARD TR FIXED .34% DUE 05-15-2026	2,539,499
2,552,000	BARCLAYS PLC 4.375% DUE 01-12-2026	2,451,407
2,600,000	PVTPL SCHLUMBERGER HLDGS CORP 3.9% DUE 05-17-2028 BEO	2,449,766
2,503,000	CIGNA CORP NEW 4.5% DUE 02-25-2026 BEO	2,448,534

LARGEST STOCK HOLDINGS (BY FAIR VALUE) JUNE 30, 2023

Shares	Stock	Fair Value
66,800	NOVARTIS AG CHF0.49 (REGD)	\$ 6,719,946
74,200	OCCIDENTAL PETROLEUM CORP	4,362,960
35,995	NESTLE SA CHF0.10(REGD)	4,329,137
99,000	WELLS FARGO & CO NEW COM STK	4,225,320
3,515,000	NIPPON TELEGRAPH & TELEPHONE CORP NPV	4,146,452
38,700	SANOFI EUR2	4,146,171
117,500	KON AHOLD DELHAIZE EUR0.01	4,007,298
69,600	TOTALENERGIES SE	3,990,311
133,700	SHELL PLC ORD EUR0.07	3,981,770
12,876	ROCHE HLDGS AG GENUSSCHEINE NPV	3,936,272
5,384	ASML HOLDING NV EUR0.09	3,894,425
72,200	SANOFI SPONSORED ADR	3,891,580
64,500	SCHWAB CHARLES CORP COM NEW	3,655,860
361,220	AIA GROUP LTD NPV	3,646,033
28,700	FISERV INC COM	3,620,505
29,800	ALPHABET INC CAP STK USD0.001 CL C	3,604,906
72,100	DEUTSCHE POST AG NPV(REGD)	3,518,511
23,248	SAP SE	3,173,997
3,354	LVMH MOET HENNESSY LOUIS VUITTON SE EUR0.30	3,157,902
9,000	MICROSOFT CORP COM	3,064,860

SCHEDULE OF INVESTMENT MANAGEMENT FEESFor the Fiscal Years Ended June 30, 2023 and 2022

		2023	2022
Domestic Equities		A 40.040	Ф. 440.074
BlackRock		\$ 13,848	\$ 119,674
Capital Prospects Dodge & Cox		570,886 173,047	800,381 258,477
NT Russell 1000		9,679	21,115
NI Russell 1000	Total Domestic Equities	767,460	1,199,647
	Total Bollestic Equities	707,400	1,100,047
International Equities			
LSV Asset Management		443,061	639,169
Fidelity Asset Management		462,291	1,246,562
	Total International Equities	905,352	1,885,731
Fixed Income			
Insight		170,757	129,116
NT Intermediate Bond		31,138	49,079
NT Long Term Bond	Total Five d Income	12,876	20,223
	Total Fixed Income	214,771	198,418
Real Estate Securities			
BlackRock US Real Estate Index		8,067	91,860
	Total Real Estate Securities	8,067	91,860
		•	•
Private Credit			
Abry VI		188,068	145,384
BlackRock High Yield		118,295	113,554
Callodine Loan Fund II		95,462	-
Medley Opportunity Fund II		7,753	1,271,969
Monroe Fund IV		280,876	-
Raven Opportunity Fund III		409,735	717,012
Owl Rock First		170,801	148,917
Strategic Values Special Solutions Fund	/, L.P.	280,361	126,924
White Oak Global Advisors	T / I D : / O III	350,842	350,602
	Total Private Credit	1,902,193	2,874,362
Private Real Estate			
American Realty Advisors		(552,076)	3,176,063
Greenfield Acquisition Partners VII		127,487	404,899
Grandview I-A		(621,624)	1,783,643
Grandview II		300,001	271,233
Prime Property Fund		1,079,833	975,311
PGIM		762,712	509,853
PGIM		172,903	_
	Total Private Real Estate	1,269,236	7,121,002
B			
Private Equity		141 007	
Audax Fund VII Blue Wolf V		141,927	177 269
Clayton, Dubilier & Rice XI		200,107 105,665	177,368 93,812
Genstar X		(3,983)	44,302
Great Hill VIII		92,355	24,259
Gryphon Partners VI		(59,943)	150,229
Insight Partners XI		240,475	158,755
Sole Source Partners II		234,316	682,463
Vista Foundation IV		400,000	400,000
	Total Private Equity	1,350,919	1,731,188

SCHEDULE OF INVESTMENT MANAGEMENT FEES (continued) For the Fiscal Years Ended June 30, 2023 and 2022

		2023	2022
<u>Infrastructure</u>			
IFM		904,849	-
JP Morgan IIF		366,290	67,696
Palistar Infrastructure II		368,923	802,136
NTAM Infrastructure		4,274	2,224
North Haven Partners, LP		243,590	354,269
•	Total Infrastructure	1,887,926	1,226,325
Risk Parity			
AQR		456,461	579,578
Graham Fund I		2,151,288	3,940,148
Invesco		205,771	106,012
PanAgora		374,820	530,393
	Total Risk Parity	3,188,340	5,156,131
	Total Investment Management Fees	11,494,264	21,484,664
Other Investment Fees and Expenses			
Consultant Fees		531,473	501,233
Custodial Fees		415,345	242,263
Investment Attorney		133,532	130,981
Other Investment Costs		7,075,593	5,376,766
Actuarial Fees		113,290	162,593
	Total Other Investment Fees and Expenses	8,269,233	6,413,836
Total Investment Fees and Expenses		\$19,763,497	\$27,898,500

Schedule of Investment Broker Commissions

StanCERA participates in a commission recapture program administered by Cowen. The strategic objective of the Commission Recapture Program is to recapture a portion of trade commissions paid to brokers. The primary goal is to ensure that investment managers provide the best effort to optimize the use of StanCERA's assets for the benefit of the members and beneficiaries by recapturing commissions paid on a specific percentage of trades sent to correspondent brokers on a timely basis. For the fiscal years ending June 30, 2023 and 2022, Commission Recapture Income was \$14,491 and \$32,929, respectively.

Below are the commissions paid by StanCERA for the fiscal years ending June 30:

		2023			
		# Shares	Commissions	Per Share	
<u>Domestic Equities</u> Capital Prospects		308,340	7,689	0.025	
	Total Domestic Equities	308,340	7,689	0.025	
International Equities					
Fidelity Asset Management		3,800,521	59,363	0.016	
	Total International Equities	3,800,521	59,363	0.016	
	Total Investment Broker Commissions	4,108,861	\$ 67,052	\$ 0.016	
			2022		
		# Shares	Commissions	Per Share	
Domestic Equities Capital Prospects		521,490	14,722	0.028	
	Total Domestic Equities	521,490	14,722	0.028	
International Equities					
Fidelity Asset Management		5,782,904	86,848	0.015	
	Total International Equities	5,782,904	86,848	0.015	
	Total Investment Broker Commissions	6,304,394	\$ 101,570	\$ 0.016	

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ACTUARIAL SECTION

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Via Electronic Mail

October 26, 2023

Actuarial Certification

This is the Actuary's Certification Letter for the Actuarial Section of the Annual Comprehensive Financial Report for the StanCERA Retirement Plan (the Plan) as of June 30, 2023. This letter includes references to two documents produced by Cheiron for the Plan: the Actuarial Valuation Report as of June 30, 2022 (transmitted February 17, 2023) and the GASB 67/68 Report as of June 30, 2023 (transmitted October 5, 2023).

Actuarial Valuation Report as of June 30, 2022

The purpose of the annual Actuarial Valuation Report as of June 30, 2022 is to determine the actuarial funding status of StanCERA on that date and to calculate recommended contribution rates for the participating employers and Plan members for the Fiscal Year 2023-2024. The prior review was conducted as of June 30, 2021 and included recommended contribution rates for the Fiscal Year 2022-2023.

Actuarial funding is based on the Entry Age Normal Cost Method. Under this method, the employer contribution rate provides for current cost (normal cost) plus a level percentage of payroll to amortize the Unfunded Actuarial Accrued Liability (UAAL) plus expected administrative expenses. The initial UAAL as of June 30, 2021 is amortized over a closed 15-year period (14 years remaining as of June 30, 2022). Any subsequent unexpected changes in the UAAL after June 30, 2021 from actuarial gains or losses or assumption changes are amortized over fixed closed periods of 20 years as a level percentage of payroll, with new amortization layers established each year. Any subsequent changes in the UAAL after June 30, 2021 due to plan amendments or other plan provision changes are amortized over a shorter period, based on the lesser of 15 years or the average future working lifetime for changes affecting active members, or the lesser of 10 years or the average remaining life expectancy for changes affecting inactive members.

The funding objective of the Plan is to accumulate sufficient assets over each Member's working life to provide for Plan benefits after termination of employment or retirement. For actuarial valuation purposes, Plan assets are valued at actuarial value. Under this method, the assets used to determine employer contribution rates take into account market value by spreading all investment gains and losses (returns above or below expected returns) over a period of five years. The actuarial value is limited to no less than 80% and no more than 120% of market value.

StanCERA Retirement Plan October 26, 2023 Page 2

The Board of Retirement is responsible for establishing and maintaining the funding policy of the Plan, subject to the laws of the State of California enacted under the County Employees Retirement Law of 1937 and subsequent legislation.

We prepared the following schedules, which we understand will be included in the Actuarial Section of the Annual Comprehensive Financial Report, based on the June 30, 2022 actuarial valuation. All historical information prior to the June 30, 2008 actuarial valuation shown in these schedules is based on information reported by the prior actuary, Buck Consultants.

- Summary of Current Actuarial Assumptions and Methods
- Membership Information (Active, Deferred, and Retired)
- Schedule of Retirees and Beneficiaries Added to and Removed from Rolls
- Analysis of Financial Experience: Change in Unfunded Actuarial Liability
- Schedule of Funded Liabilities by Type
- Schedule of Funding Progress
- Summary of Plan Provisions

We reviewed the actuarial assumptions shown in the schedules and found them to be reasonably appropriate for use under the Plan. The assumptions used in this report reflect the results of an Experience Study performed by Cheiron covering the period from July 1, 2018 through June 30, 2021 and approved by the Board. The assumptions used in the most recent valuation are intended to produce results that, in the aggregate, reasonably approximate the anticipated future experience of the Plan. The next experience analysis is expected to cover the years through 2024.

We certify that the valuation was performed in accordance with generally accepted actuarial principles and practices. In particular, the assumptions and methods used for funding purposes meet the requirements of the Actuarial Standards of Practice (ASOPs), in particular ASOPs No. 4, 27, 35, and 44.

GASB 67/68 Report as of June 30, 2023

The purpose of GASB 67/68 Report as of June 30, 2023 is to provide accounting and financial reporting information under GASB 67 for StanCERA and under GASB 68 for Stanislaus County and the other participating employers. This report is not appropriate for other purposes, including the measurement of funding requirements for StanCERA.

For financial reporting purposes, the Total Pension Liability is based on the June 30, 2022 actuarial valuation updated to the measurement date of June 30, 2023. There were no significant events of which we were aware between the valuation date and the measurement date so the update procedures only included the addition of service cost and interest cost offset by actual benefit payments.



StanCERA Retirement Plan October 26, 2023 Page 3

Please refer to our GASB 67/68 report as of June 30, 2023 for additional information related to the financial reporting of the System. We prepared the following schedules for inclusion in the Financial Section of the Annual Comprehensive Financial Report based on the June 30, 2023 GASB 67/68 report:

- Change in Net Pension Liability
- Sensitivity of Net Pension Liability to Changes in Discount Rate
- Schedule of Changes in Net Pension Liability and Related Ratios
- Schedule of Employer Contributions
- Notes to the Schedule of Employer Contributions

We certify that the report was performed in accordance with generally accepted actuarial principles and practices. In particular, the assumptions and methods used for disclosure purposes have been prepared in accordance with our understanding of generally accepted accounting principles as promulgated by the GASB.

Disclaimers

In preparing our reports, we relied on information (some oral and some written) supplied by StanCERA. This information includes, but is not limited to, the plan provisions, employee data, and financial information. We performed an informal examination of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial Standard of Practice No. 23, Data Quality.

Cheiron utilizes ProVal, an actuarial valuation application leased from Winklevoss Technologies (WinTech), to calculate liabilities and project benefit payments. We have relied on WinTech as the developer of ProVal. We have reviewed ProVal, have a basic understanding of it, and have used it in accordance with its original intended purpose. We have not identified any material inconsistencies in assumptions or output of ProVal that would affect this report.

Future actuarial measurements may differ significantly from the current measurements due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; and, changes in plan provisions or applicable law.

These reports are for the use of StanCERA and its auditor in preparing financial reports in accordance with applicable law and accounting requirements. Any other user of these reports is not an intended user and is considered a third party.

Cheiron's reports were prepared solely for StanCERA for the purposes described herein, except that the Plan's auditor may rely on these reports solely for the purpose of completing an audit



StanCERA Retirement Plan October 26, 2023 Page 4

related to the matters herein. They are not intended to benefit any third party, and Cheiron assumes no duty or liability to any such party.

These reports and their contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices and our understanding of the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board as well as applicable laws and regulations. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinions contained in these reports. These reports do not address any contractual or legal issues. We are not attorneys and our firm does not provide any legal services or advice.

Respectfully Submitted,

Graham A. Schmidt, ASA, EA, FCA, MAAA

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SUMMARY OF ASSUMPTIONS AND FUNDING METHODS

The following assumptions, along with the post-retirement and pre-retirement demographic experiences, are based on StanCERA's actuarial experience study from July 1, 2018 through June 30, 2021, approved by the StanCERA Board of Retirement on December 14, 2021. The actuarial valuation for the fiscal year ending June 30, 2022 was approved by the StanCERA Board of Retirement on February 28, 2023, which incorporated the following assumptions. The purpose of the annual actuarial valuation report as of June 30, 2022 is to determine the actuarial funding status of StanCERA on that date and to calculate recommended contribution rates for the participating employers and StanCERA members for the fiscal year ended June 30, 2024. The prior actuarial valuation conducted as of June 30, 2021 included recommended contribution rates for the fiscal year ended June 30, 2023 which was approved by the StanCERA Board of Retirement on February 22, 2022.

Plan Description

A summary of Plan provisions can be found in Note 1 of the Notes to Basic Financial Statements.

Actuarial Methods

Actuarial Cost Method

Annual contributions are computed under the Entry Age Normal Actuarial Cost Method, computed to the final decrement. A schedule of actuarially determined contributions compared to actual contributions can be found in the Required Supplementary Information Section following the Notes to the Basic Financial Statements.

The excess of the Actuarial Accrued Liability over Plan assets is the Unfunded Actuarial Accrued Liability. The liability for each valuation group is amortized as a level percentage of payroll over a closed period (15 years as of the current valuation).

Actuarial Value of Plan Assets

The Actuarial Value of Plan Assets is a modified market-related value. The fair value of assets is adjusted to recognize, over a five-year period, differences between actual investment earnings and the assumed investment return. The Actuarial Value of Plan Assets is limited to no less the 80% and no more than 120% of the fair value. As of June 30, 2011, the Actuarial Value was reset to equal fair value.

ACTUARIAL VALUATION METHODS AND ASSUMPTIONS			
Valuation Date	June 30, 2022	June 30, 2021	
Actuarial Cost Method	Entry Age Normal	Entry Age Normal	
Amortization Method	Level Percent of Pay	Level Percent of Pay	
Remaining Amortization Period	14 Years	15 Years	
Asset Valuation Method	Modified Market-Related Value smoothed over a five year period	Modified Market-Related Value smoothed over a five year period	
		Actuarial Section - Page 64	

Actuarial Assumptions

- 1. Rate of Return The annual rate of return is assumed to be 6.75% net of investment expenses.
- 2. Cost of Living Adjustment (COLA) The COLA is assumed to be 2.50% per year as measured by the Consumer Price Index.
- 3. Administrative Expenses An allowance of \$3,177,500 has been included in the annual cost calculation.
- 4. Interest Credited to Employee Accounts 0.25% annually.
- 5. Increases in Pay Base salary increase is assumed at 2.75%. Assumed pay increases for active Members consist of increases due to salary adjustments (as noted above), plus service-based increases due to longevity and promotion, as shown below.

Longevity & Promotion Increases		
Service	Safety	General
0	5.00%	5.00%
1	5.00%	5.00%
2	5.00%	5.00%
3	5.00%	4.50%
4	5.00%	4.50%
5	3.50%	2.00%
6	2.50%	1.75%
7	1.50%	1.50%
8	1.25%	1.50%
9	1.00%	1.25%
10	0.75%	1.00%
11+	0.50%	1.00%

- 6. Public Employees' Pension Reform Act (PEPRA) Compensation Limit Assumption used for increasing the compensation limit that applies to PEPRA members is 2.50%.
- 7. Post Retirement COLA 100% of Consumer Price Index up to 3% annually with banking, 2.4% annual increases assumed.
- 8. Social Security Wage Base For projecting the Social Security Benefit, the annual Social Security Wage Base increase is assumed to be 2.75% per year. General Tier 3 members have their benefits offset by an assumed Social Security Benefit.
- 9. Internal Revenue Code Section 415 Limit Has been applied to the benefits for members currently in pay status, as the limited benefits have been provided by StanCERA for valuation purposes.
- 10. Internal Revenue Code Section 401(a)(17) Not reflected in the valuation for funding purposes.
- 11. Family Composition Spouses of male members are assumed to be two years younger than the member. Spouses of female members are assumed to be two years older than the member.

FAMILY COMPOSITION

Percent Married	
Gender	Percentage
Males	80%
Females	60%

Actuarial Assumptions (continued)

- 12. Accumulated Vacation Time Load Active members' service retirement and related benefits are loaded by 3.00% for Safety Members and 3.00% for General Members.
- 13. Rates of Separation Separate termination rates are assumed among Safety and General Members. Termination rates do not apply once a member is eligible for retirement.

Termination (all types)		
	Safety	General
Service	All	All
0	18.0%	16.0%
1	14.0%	8.0%
2	9.0%	7.0%
3	8.0%	6.0%
4	7.0%	6.0%
5	7.0%	6.0%
10	5.0%	5.0%
15	3.0%	2.0%
20	3.0%	0.0%
25	3.0%	0.0%
30+	0.0%	0.0%

- 14. Withdrawal Rates of withdrawal apply to active Members who terminate their employment and withdraw their member contributions. 45% of all General Member terminations with less than ten years of service and 15% of those with ten or more years of service are assumed to take a refund of contributions. 35% of all Safety Member terminations with less than ten years of service and 10% of those with ten or more years of service are assumed to take a refund of contributions.
- 15. Vested Termination Rates of vested termination apply to active Members who terminate their employment after five years of service and leave their member contributions on deposit with the Plan. Tier 3 General Members are assumed to begin receiving benefits at age 65, and all other General Members at age 58. Safety Members are assumed to begin receiving benefits at age 51. 60% of vested terminated General members are assumed to be reciprocal with less than 10 years of service, and 40% of those with 10 years or more. 75% of vested Safety members are assumed to be reciprocal with less than 10 years of service, and 70% with 10 years or more. Reciprocal members are assumed to receive annual pay increases of 3.25% for General members and 3.75% for Safety members.

Actuarial Assumptions (continued)

16. Service Connected Disability – Separate rates are assumed among Safety and General Members. Rates for both sexes for Safety Members are combined.

Service Connected Disability			
	Safety	General	
Age	All	Female	Male
20	0.0020%	0.0002%	0.0043%
25	0.0760%	0.0004%	0.0102%
30	0.1700%	0.0008%	0.0211%
35	0.2640%	0.0024%	0.0284%
40	0.3600%	0.0056%	0.0401%
45	0.4570%	0.0101%	0.0613%
50	0.5570%	0.0162%	0.0897%
55	0.6580%	0.0249%	0.1227%
60	0.7620%	0.0349%	0.1637%
65	0.8690%	0.0000%	0.0000%

17. Non-Service Connected Disability - Separate rates are assumed among Safety and General Members. Rates for both sexes for Safety Members are combined. Rates shown are applied after five years of service.

Non-Service Connected Disability			
	Safety	General	
Age	All	Female	Male
20	0.0100%	0.0100%	0.0170%
25	0.0100%	0.0100%	0.0170%
30	0.0200%	0.0240%	0.0190%
35	0.0300%	0.0710%	0.0390%
40	0.0400%	0.1350%	0.1020%
45	0.0500%	0.1880%	0.1510%
50	0.0800%	0.1990%	0.1580%
55	0.1300%	0.1490%	0.1580%
60	0.2000%	0.1050%	0.1530%
65	0.2000%	0.0880%	0.1280%
70	-	0.0840%	0.1020%
75+	-	0.0880%	0.1020%

Actuarial Assumptions (continued)

18. Rates for Mortality for Healthy Lives – Rates of ordinary death for active General members are specified by the 2021 California Public Employees Retirement System (CalPERS) Preretirement Non-Industrial Mortality table, adjusted by 102.2% for males and 110.2% for females. Rates of ordinary death for active Safety members are specified by the 2021 CalPERS Preretirement Non-Industrial Mortality table, adjusted by 102.6% for males and 100.9% for females. Duty related mortality rates are only applicable for Safety Active Members and are based on the 2021 CalPERS Preretirement Industrial Death table, adjusted by 102.6% for males and 100.9% for females. These mortality base tables are all projected generationally from 2017 using 80% of SOA Scale MP-2020.

			Mortality Rates					
	Ordinary Dea	ith - General	Ordinary Do	eath - Safety	Duty Death - Safety			
Age	Female	Female Male F		Male	Female	Male		
20	0.0154%	0.0399%	0.0141%	0.0390%	0.0020%	0.0041%		
25	0.0143%	0.0337%	0.0182%	0.0349%	0.0020%	0.0041%		
30	0.0209%	0.0450%	0.0252%	0.0431%	0.0030%	0.0051%		
35	0.0320%	0.0593%	0.0343%	0.0492%	0.0040%	0.0051%		
40	0.0430%	0.0767%	0.0424%	0.0564%	0.0050%	0.0062%		
45	0.0595%	0.0950%	0.0535%	0.0677%	0.0061%	0.0072%		
50	0.0893%	0.1369%	0.0737%	0.0944%	0.0081%	0.0103%		
55	0.1355%	0.2024%	0.1070%	0.1416%	0.0121%	0.0154%		
60	0.1973%	0.2933%	0.1524%	0.2267%	0.0172%	0.0257%		
65	0.2755%	0.4119%	0.1957%	0.3550%	0.0222%	0.0390%		
70	0.4452%	0.6071%	0.3612%	0.6218%	0.0404%	0.0687%		

19. Disabled Member Mortality –

Non-Service Connected Disability Members are specified by the 2021 CalPERS Non-Industrial Disabled Annuitant Mortality table, with no adjustment for males or females, with generational mortality improvements projected from 2017 using 80% of SOA Scale MP-2020.

Service Connected Disability Members are adjusted by 105% for females and no adjustment for males using the same table and scale.

	Disabled Mortality Rates											
	Non-Service	e Connected	Service Connected									
Age	Female	Male	Female	Male								
45	1.019%	1.120%	0.238%	0.314%								
50	1.439%	1.727%	0.326%	0.437%								
55	1.734%	2.217%	0.577%	0.623%								
60	1.962%	2.681%	0.911%	0.935%								
65	2.276%	3.332%	1.250%	1.393%								
70	2.910%	4.056%	1.951%	2.189%								
75	4.160%	5.465%	3.291%	3.498%								
80	6.112%	8.044%	5.442%	5.932%								
85	9.385%	11.695%	8.447%	10.244%								
90	14.396%	16.770%	13.056%	16.739%								

Actuarial Assumptions (continued)

20. Retired Member and Beneficiary Mortality - Specified by the CalPERS Healthy Annuitant Mortality table, adjusted by 107.6% for males and 115.3% for females, with generational mortality improvements projected from 2017 using 80% of SOA Scale MP-2020.

Retire	ed Mortalit	y Rates
Age	Female	Male
45	0.063%	0.101%
50	0.229%	0.291%
55	0.375%	0.421%
60	0.525%	0.618%
65	0.705%	0.922%
70	1.149%	1.442%
75	2.056%	2.582%
80	3.923%	4.713%
85	7.110%	8.902%
90	12.782%	15.644%

- 21. Mortality Improvement The mortality assumptions employ a fully generational mortality improvement projection from the base year 2017 using 80% of SOA Scale MP-2020.
- 22. Service Retirement Assumed to occur among eligible members in accordance with the following table for non-PEPRA Tiers 1 through 5.

Service Retirement - General											
	Y	ears of Servi	ce								
Age	0-9	10-29	30+								
40-44	0.00%	0.00%	0.00%								
45-49	0.00%	0.00%	10.00%								
50-54	0.00%	4.00%	10.00%								
55	0.00%	7.00%	10.00%								
56	0.00%	7.00%	15.00%								
57	0.00%	7.00%	15.00%								
58	0.00%	7.00%	15.00%								
59	0.00%	12.50%	15.00%								
60	0.00%	12.50%	22.50%								
61	0.00%	12.50%	30.00%								
62	0.00%	20.00%	30.00%								
63	0.00%	20.00%	30.00%								
64	0.00%	20.00%	30.00%								
65	0.00%	40.00%	30.00%								
66	0.00%	40.00%	30.00%								
67	0.00%	40.00%	30.00%								
68	0.00%	25.00%	30.00%								
69	0.00%	25.00%	30.00%								
70	25.00%	25.00%	30.00%								
71	25.00%	25.00%	30.00%								
72	25.00%	25.00%	30.00%								
73	25.00%	25.00%	30.00%								
74	25.00%	25.00%	30.00%								
75+	100.00%	100.00%	100.00%								

Service Retirement - Safety									
		Years of	Service						
Age	0-9	10-14	15-19	20+					
40-48	0.00%	0.00%	0.00%	5.00%					
49	0.00%	0.00%	0.00%	20.00%					
50	0.00%	5.00%	25.00%	40.00%					
51	0.00%	5.00%	5.00%	25.00%					
52	0.00%	5.00%	5.00%	25.00%					
53	0.00%	5.00%	5.00%	25.00%					
54	0.00%	5.00%	5.00%	25.00%					
55	0.00%	5.00%	5.00%	40.00%					
56	0.00%	5.00%	5.00%	40.00%					
57	0.00%	5.00%	5.00%	40.00%					
58	0.00%	5.00%	5.00%	40.00%					
59	0.00%	5.00%	5.00%	40.00%					
60	0.00%	25.00%	25.00%	100.00%					
61	0.00%	25.00%	25.00%	100.00%					
62	0.00%	25.00%	25.00%	100.00%					
63	0.00%	25.00%	25.00%	100.00%					
64	0.00%	25.00%	25.00%	100.00%					
65	0.00%	100.00%	100.00%	100.00%					
66	0.00%	100.00%	100.00%	100.00%					
67	0.00%	100.00%	100.00%	100.00%					
68	0.00%	100.00%	100.00%	100.00%					
69	0.00%	100.00%	100.00%	100.00%					
70+	100.00%	100.00%	100.00%	100.00%					

Actuarial Assumptions (continued)

23. PEPRA – Retirement for members in PEPRA, Tier 6, is assumed to occur among eligible members in accordance with the sample rates below, from the full tables 2021 CalPERS Public Agency Miscellaneous 2% @ 62 table for General and the CalPERS Public Agency Safety Police 2.7% @ 57 table for Safety:

Servi	Service Retirement - General (PEPRA)											
		Years of	Service									
Age	5	10	25	35								
50-51	0.00%	0.00%	0.00%	0.00%								
52	0.50%	0.80%	1.90%	3.80%								
53	0.70%	1.10%	2.10%	4.80%								
54	0.70%	1.10%	2.30%	5.40%								
55	1.00%	1.90%	6.10%	15.20%								
56	1.40%	2.60%	7.50%	16.70%								
57	1.80%	2.90%	7.40%	14.30%								
58	2.30%	3.50%	7.30%	13.50%								
59	2.50%	3.80%	9.20%	17.50%								
60	3.10%	5.10%	11.10%	18.30%								
61	3.80%	5.80%	12.10%	23.20%								
62	4.40%	7.40%	16.40%	27.10%								
63	7.70%	10.50%	19.20%	26.60%								
64	7.20%	10.10%	18.70%	27.60%								
65	10.80%	14.10%	23.90%	34.80%								
66	13.20%	17.20%	29.20%	42.60%								
67	13.20%	17.20%	29.20%	40.50%								
68	12.00%	15.60%	26.50%	38.70%								
69	12.00%	15.60%	26.50%	36.80%								
70	12.00%	15.60%	26.50%	38.70%								
71	12.00%	15.60%	26.50%	38.70%								
72	12.00%	15.60%	26.50%	38.70%								
73	12.00%	15.60%	26.50%	38.70%								
74	12.00%	15.60%	26.50%	38.70%								
75+	100.00%	100.00%	100.00%	100.00%								

Serv	ice Retire	ment - Sa	afety (PEF	PRA)
		Years of	f Service	
Age	5	10	25	35
50	5.00%	5.00%	5.00%	11.00%
51	4.00%	4.00%	5.75%	13.92%
52	3.80%	3.80%	5.80%	13.21%
53	3.80%	3.80%	7.74%	28.98%
54	3.80%	3.80%	9.31%	33.25%
55	6.84%	6.84%	13.40%	38.76%
56	6.27%	6.27%	12.28%	34.49%
57	6.00%	6.00%	11.75%	32.00%
58	8.00%	8.00%	13.75%	35.00%
59	8.00%	8.00%	14.00%	40.00%
60	15.00%	15.00%	15.00%	35.00%
61	14.40%	14.40%	14.40%	26.40%
62	15.00%	15.00%	15.00%	33.00%
63	15.00%	15.00%	15.00%	40.00%
64	15.00%	15.00%	15.00%	52.50%
65+	100.00%	100.00%	100.00%	100.00%

24. Changes in Actuarial Assumptions – Details of all assumption changes can be found in the Actuarial Experience Study Report on StanCERA's website at http://www.stancera.org for the period covering July 1, 2018 through June 30, 2021. The proposed assumptions were summarized and reviewed with the Board at the December 14, 2021 Board meeting, at which the Board provided direction to proceed with the valuation based on those assumptions.

Participant data on active and inactive Members and their beneficiaries as of the valuation date were supplied by the Plan staff at the direction of the Executive Director on electronic media. Member data was neither verified nor audited.

SCHEDULE OF ACTIVE MEMBER VALUATION DATA FOR FISCAL YEARS ENDED JUNE 30

Valuation Date	Plan Type	Number	Annual Salary	Average Annual Salary	% Increase (Decrease) in Average Salary	Number of Employers
6/30/2013	General	3,230	\$ 176,437,755	\$ 54,625	-1.48%	
	Safety	694	42,590,563	61,370	-2.62%	
	Total	3,924	\$ 219,028,318	\$ 55,818	-1.61%	8
6/30/2014	General	3,303	\$ 179,606,090	\$ 54,377	-0.45%	
	Safety	689	43,422,198	63,022	2.69%	
	Total	3,992	\$ 223,028,288	\$ 55,869	0.09%	8
6/30/2015	General	3,421	\$ 188,550,804	\$ 55,116	1.36%	
0,00,20.0	Safety	723	49,166,923	68,004	7.91%	
	Total	4,144	\$ 237,717,727	\$ 57,364	2.68%	8
6/30/2016	General	3,521	\$ 198,457,059	\$ 56,364	2.26%	
0/30/2010	Safety	727	52,020,521	71,555	5.22%	
	Total	4,248	\$ 250,477,580	\$ 58,964	2.79%	8
6/30/2017	General	3,552	\$ 201,758,423	\$ 56,801	0.78%	
	Safety	757	54,385,261	71,843	0.40%	
	Total	4,309	\$ 256,143,684	\$ 59,444	0.81%	8
6/30/2018	General	3,658	\$ 211,919,963	\$ 57,933	1.99%	
	Safety	794	58,835,257	74,100	3.14%	
	Total	4,452	\$ 270,755,220	\$ 60,817	2.31%	8
6/30/2019	General	3,690	\$ 220,393,008	\$ 59,727	3.10%	
0,00,20.0	Safety	814	63,615,295	78,151	5.47%	
	Total	4,504	\$ 284,008,303	\$ 63,057	3.68%	8
6/30/2020	General	3,652	\$ 221,652,587	\$ 60,693	1.62%	
0/30/2020	Safety	806	63,673,695	79,000	1.09%	
	Total	4,458	\$ 285,326,282	\$ 64,003	1.50%	8
0/00/0004	0 1	0.555	* 000 445 000	. 04.470	E 740/	
6/30/2021	General	3,555	\$ 228,145,063	\$ 64,176	5.74%	
	Safety	766	63,505,375	82,905	4.94%	
	Total	4,321	\$ 291,650,438	\$ 67,496	5.46%	8
6/30/2022	General	3,566	\$ 237,279,320	\$ 66,539	3.68%	
	Safety	757	66,315,366	87,603	5.67%	
	Total	4,323	\$ 303,594,687	\$ 70,228	4.05%	9

Note: The annual salary presented here is annualized historical salary. The covered payroll shown in the Notes to the Basic Financial Statements is actual pensionable salaries. Salary shown in the Schedule of Funding Progress is based on projected salary from the actuarial valuation.

Note: The employers participating in the Plan include Stanislaus County, Stanislaus County Superior Court, City of Ceres and six small districts.

SCHEDULE OF FUNDING PROGRESS FOR FISCAL YEARS ENDED JUNE 30

Actuarial		Actuarial				Unfunded AAL
Valuation	Valuation	Accrued Liability	Unfunded	Funded	Covered	as a % of
Date	Assets 1	(AAL)	AAL	Ratio	Payroll	Covered Payroll
2013	\$ 1,524,076,000	\$ 1,919,227,000	\$ 395,151,000	79.4%	\$ 219,028,318	180.4%
2014	\$ 1,644,077,000	\$ 2,026,371,000	\$ 382,294,000	81.1%	\$ 223,028,288	171.4%
2015	\$ 1,763,629,000	\$ 2,391,522,000	\$ 627,893,000	73.7%	\$ 237,717,727	264.1%
2016	\$ 1,845,764,000	\$ 2,537,067,000	\$ 691,303,000	72.8%	\$ 250,477,580	276.0%
2017	\$ 1,968,231,000	\$ 2,648,162,000	\$ 679,931,000	74.3%	\$ 256,143,684	265.4%
2018	\$ 2,100,278,000	\$ 2,749,068,000	\$ 648,790,000	76.4%	\$ 270,755,220	239.6%
2019	\$ 2,199,956,000	\$ 2,897,223,000	\$ 697,267,000	75.9%	\$ 284,008,303	245.5%
2020	\$ 2,290,287,000	\$ 3,028,647,000	\$ 738,360,000	75.6%	\$ 285,326,282	258.8%
2021	\$ 2,483,712,000	\$ 3,153,032,000	\$ 669,320,000	78.8%	\$ 291,650,438	229.5%
2022	\$ 2,603,763,000	\$ 3,379,554,000	\$ 775,791,000	77.0%	\$ 303,594,687	255.5%

¹ Excludes value of Non-Valuation Reserves.

RETIREES AND BENEFICIARIES ADDED TO AND REMOVED FROM RETIREE PAYROLL FOR FISCAL YEARS ENDED JUNE 30

Actuarial	At	Added			Removed					% Increase	Α	verage
Valuation	Beginning	During	1	Allowances	During	/	Allowances	At End	Retiree	in Retiree		Annual
 Date	of Year	Year		Added	Year		Removed	of Year	Payroll	Payroll	Αl	lowance
2013	3,142	198	\$	6,036,138	91	\$	1,144,584	3,249	\$ 89,975,736	12.25%	\$	27,694
2014	3,249	222	\$	6,703,273	86	\$	1,725,066	3,385	\$ 96,405,454	7.15%	\$	28,480
2015	3,385	237	\$	7,778,716	83	\$	2,043,313	3,539	\$ 104,052,097	7.93%	\$	29,402
2016	3,539	211	\$	7,066,750	99	\$	2,160,689	3,651	\$ 111,260,240	6.93%	\$	30,474
2017	3,651	202	\$	6,749,973	107	\$	2,471,229	3,746	\$ 117,901,627	5.97%	\$	31,474
2018	3,746	233	\$	7,555,825	123	\$	3,109,178	3,856	\$ 124,995,337	6.02%	\$	32,416
2019	3,856	242	\$	8,421,538	97	\$	2,580,158	4,001	\$ 133,601,799	6.89%	\$	33,392
2020	4,001	283	\$	11,277,136	107	\$	3,164,436	4,177	\$ 144,745,530	8.34%	\$	34,653
2021	4,177	273	\$	9,937,557	134	\$	3,802,836	4,316	\$ 153,764,029	6.23%	\$	35,627
2022	4,316	279	\$	9,936,459	119	\$	3,132,862	4,476	\$ 164,415,041	6.93%	\$	36,733

SCHEDULE OF FUNDED LIABILITIES BY TYPE SOLVENCY TEST FOR FISCAL YEARS ENDED JUNE 30

		Actuarial	Actuarial Accrued Liabilities (AAL) for:						Portion of	Accrued L	iabilities
		1	2		3				Covered b	y Reporte	d Assets
Valuation		Active	Retirees &	Α	ctive Members	Actuarial		Reported			
Date		Member	Beneficiaries		Employer	Accrued		Assets	1	2	3
		Contributions			Portion	Liabilities					
2013	1	\$ 191,968,000	\$ 1,065,792,000	\$	661,466,000	\$ 1,919,227,000	\$	1,524,076,000	100%	100%	40%
2014		\$ 193,301,000	\$ 1,144,734,000	\$	688,335,000	\$ 2,026,371,000	\$	1,644,077,000	100%	100%	44%
2015		\$ 196,074,000	\$ 1,337,781,000	\$	857,667,000	\$ 2,391,522,000	\$	1,763,629,000	100%	100%	27%
2016		\$ 200,960,000	\$ 1,427,166,000	\$	908,941,000	\$ 2,537,067,000	\$	1,845,764,000	100%	100%	24%
2017		\$ 206,386,000	\$ 1,510,151,000	\$	931,625,000	\$ 2,648,162,000	\$	1,968,231,000	100%	100%	27%
2018		\$ 213,223,000	\$ 1,590,078,000	\$	945,767,000	\$ 2,749,068,000	\$	2,100,278,000	100%	100%	31%
2019		\$ 219,369,000	\$ 1,695,484,000	\$	982,369,000	\$ 2,897,223,000	\$	2,199,956,000	100%	100%	29%
2020		\$ 222,390,000	\$ 1,833,388,000	\$	972,868,000	\$ 3,028,647,000	\$	2,290,287,000	100%	100%	24%
2021		\$ 224,594,000	\$ 1,903,558,000	\$	1,024,880,000	\$ 3,153,032,000	\$	2,483,712,000	100%	100%	35%
2022		\$ 224,213,000	\$ 2,058,086,000	\$	1,097,255,000	\$ 3,379,554,000	\$	2,603,763,000	100%	100%	29%

¹ Reflects change to include only refundable contribution balance.

ACTUARIAL ANALYSIS OF FINANCIAL EXPERIENCE FOR FISCAL YEARS ENDED JUNE 30

			Act	uar	ial (Gains)/Loss						
Plan								C	Changes	Changes in	
Year		Asset			Liability				in Plan		Assumption/
Ending		Sources			Sources		Total		rovisions	Methods	
2013		\$	10,200,000	\$	8,500,000	\$	18,700,000	\$	-	\$	(63,400,000)
2014		\$	(22,600,000)	\$	6,100,000	\$	(16,500,000)	\$	-	\$	400,000
2015		\$	(20,600,000)	\$	(5,600,000)	\$	(26,200,000)	\$	-	\$	269,800,000
2016		\$	16,300,000	\$	28,900,000	\$	45,200,000	\$	_	\$	-
2017		\$	(20,800,000)	\$	(8,900,000)	\$	(29,700,000)	\$	_	\$	-
2018	1	\$	(12,400,000)	\$	16,800,000	\$	4,400,000	\$	-	\$	(37,800,000)
2019		\$	28,700,000	\$	30,800,000	\$	59,500,000	\$	-	\$	-
2020		\$	42,100,000	\$	7,400,000	\$	49,500,000	\$	_	\$	-
2021		\$	(65,700,000)	\$	33,000,000	\$	(32,700,000)	\$	-	\$	(30,100,000)
2022		\$	11,400,000	\$	115,100,000	\$	126,500,000	\$	-	\$	-

¹ Changes due to Actuarial Audit included as Liability Loss of \$700,000.

A 10 year schedule of actuarially determined contributions compared to actual contributions can be found in the Required Supplementary Information to the Financial Statements on page 45.

STATISTICAL SECTION

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STATISTICAL INFORMATION

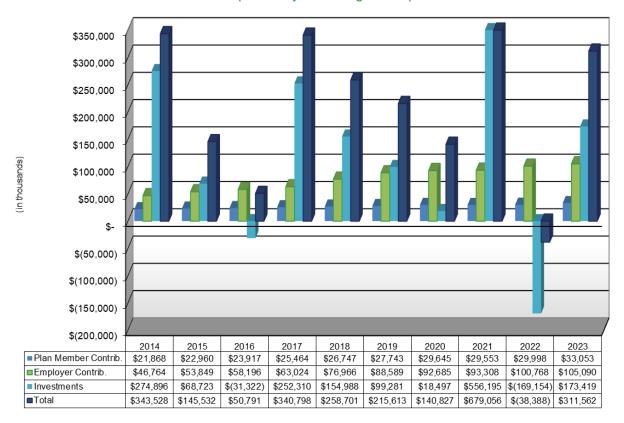
This section provides a multi-year trend of financial and demographic information to facilitate a more comprehensive understanding of this year's financial statements, note disclosures, and supplementary information covering StanCERA's Plan. The financial and operating information provides additional perspective, context, and detail for StanCERA's Fiduciary Net Position, revenues and expenses by source, number of retirees by benefit type, payments made to retirees by benefit type, membership history, and the participating employers. The financial and operating trend information is located below and on the following pages.

CHANGES IN FIDUCIARY NET POSITION

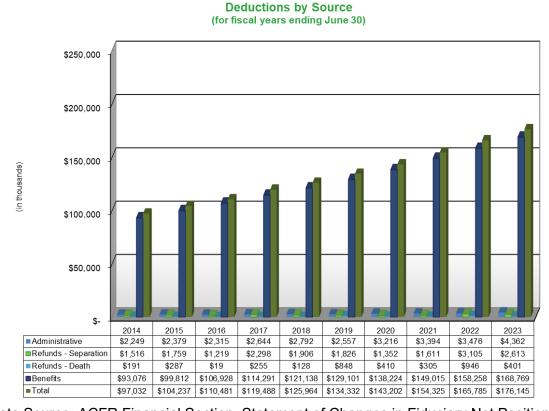
Last Ten Fiscal Years Ending June 30

Additions To Fiduciary Net Position		2023		2022		2021		2020		2019
Employer Contributions	\$	105,089,934		\$100,768,249	\$	93,307,629	\$	92,684,609	\$	88,589,381
Plan Member Contributions		33,052,850		29,998,079		29,553,123		29,645,645		27,742,863
Net Investment Income (Loss)		173,418,657		(169,153,892)		556,195,649		18,496,773		99,280,525
Total Additions	\$	311,561,441	\$	(38,387,564)	\$	679,056,401	\$	140,827,027	\$	215,612,769
		,		(00,001,001)				,		_ : 0,0 : _,: 00
Deductions From Fiduciary Net Position										
Pension Benefits	\$	168,768,709	\$	158,258,447	\$	149,015,287	\$	138,223,922	\$	129,100,668
Refunds		3,013,593		4,050,751		1,915,614		1,761,673		2,674,023
Administrative Expense		4,361,938		3,475,764		3,393,869		3,216,625		2,557,391
Total Deductions	\$	176,144,240	\$	165,784,962	\$	154,324,770	\$	143,202,220	\$	134,332,082
Change in Fiduciary Net Position Restricted for Pension Benefits	\$	135,417,201	\$	(204,172,526)	\$	524,731,631	\$	(2,375,193)	\$	81,280,687
Fiduciary Net Position Restricted for Pension Benefits	-									
	Beginning of Year <u>2,526,425,344</u>			2,730,597,870		2,205,866,239		2,208,241,432	2,126,960,745	
End of Year	\$	2,661,842,545	\$	2,526,425,344	\$	2,730,597,870	\$	2,205,866,239	\$	2,208,241,432
Additions To Fiduciary Net Position		2018	_	2017	_	2016		2015	_	2014
Employer Contributions	\$	76,966,471	\$	63,024,559	\$	58,196,310	\$	53,849,031	\$	46,763,996
Employer Contributions Plan Member Contributions	\$	76,966,471 26,746,289	\$	63,024,559 25,463,745	\$	58,196,310 23,916,508	\$	53,849,031 22,960,235	\$	46,763,996 21,867,911
Employer Contributions Plan Member Contributions Net Investment Income (Loss)	_	76,966,471 26,746,289 154,988,199		63,024,559 25,463,745 252,309,706	_	58,196,310 23,916,508 (31,322,276)		53,849,031 22,960,235 68,722,781	_	46,763,996 21,867,911 274,896,108
Employer Contributions Plan Member Contributions	\$	76,966,471 26,746,289	\$	63,024,559 25,463,745	\$	58,196,310 23,916,508	\$	53,849,031 22,960,235	\$	46,763,996 21,867,911
Employer Contributions Plan Member Contributions Net Investment Income (Loss) Total Additions Deductions From Fiduciary Net Position	\$	76,966,471 26,746,289 154,988,199 258,700,959	\$	63,024,559 25,463,745 252,309,706 340,798,010	\$	58,196,310 23,916,508 (31,322,276) 50,790,542	\$	53,849,031 22,960,235 68,722,781 145,532,047	\$	46,763,996 21,867,911 274,896,108 343,528,015
Employer Contributions Plan Member Contributions Net Investment Income (Loss) Total Additions Deductions From Fiduciary Net Position Pension Benefits	_	76,966,471 26,746,289 154,988,199 258,700,959		63,024,559 25,463,745 252,309,706 340,798,010 114,290,758	_	58,196,310 23,916,508 (31,322,276) 50,790,542		53,849,031 22,960,235 68,722,781 145,532,047	_	46,763,996 21,867,911 274,896,108 343,528,015
Employer Contributions Plan Member Contributions Net Investment Income (Loss) Total Additions Deductions From Fiduciary Net Position Pension Benefits Refunds	\$	76,966,471 26,746,289 154,988,199 258,700,959 121,138,269 2,033,847	\$	63,024,559 25,463,745 252,309,706 340,798,010 114,290,758 2,553,100	\$	58,196,310 23,916,508 (31,322,276) 50,790,542 106,928,097 1,237,713	\$	53,849,031 22,960,235 68,722,781 145,532,047 99,811,849 2,046,307	\$	46,763,996 21,867,911 274,896,108 343,528,015 93,076,127 1,706,344
Employer Contributions Plan Member Contributions Net Investment Income (Loss) Total Additions Deductions From Fiduciary Net Position Pension Benefits Refunds Administrative Expense	\$	76,966,471 26,746,289 154,988,199 258,700,959 121,138,269 2,033,847 2,791,409	\$	63,024,559 25,463,745 252,309,706 340,798,010 114,290,758 2,553,100 2,644,554	\$	58,196,310 23,916,508 (31,322,276) 50,790,542 106,928,097 1,237,713 2,315,223	\$	53,849,031 22,960,235 68,722,781 145,532,047 99,811,849 2,046,307 2,378,966	\$	46,763,996 21,867,911 274,896,108 343,528,015 93,076,127 1,706,344 2,249,260
Employer Contributions Plan Member Contributions Net Investment Income (Loss) Total Additions Deductions From Fiduciary Net Position Pension Benefits Refunds	\$	76,966,471 26,746,289 154,988,199 258,700,959 121,138,269 2,033,847	\$	63,024,559 25,463,745 252,309,706 340,798,010 114,290,758 2,553,100	\$	58,196,310 23,916,508 (31,322,276) 50,790,542 106,928,097 1,237,713	\$	53,849,031 22,960,235 68,722,781 145,532,047 99,811,849 2,046,307	\$	46,763,996 21,867,911 274,896,108 343,528,015 93,076,127 1,706,344
Employer Contributions Plan Member Contributions Net Investment Income (Loss) Total Additions Deductions From Fiduciary Net Position Pension Benefits Refunds Administrative Expense Total Deductions Change in Fiduciary	\$	76,966,471 26,746,289 154,988,199 258,700,959 121,138,269 2,033,847 2,791,409	\$	63,024,559 25,463,745 252,309,706 340,798,010 114,290,758 2,553,100 2,644,554	\$	58,196,310 23,916,508 (31,322,276) 50,790,542 106,928,097 1,237,713 2,315,223	\$	53,849,031 22,960,235 68,722,781 145,532,047 99,811,849 2,046,307 2,378,966	\$	46,763,996 21,867,911 274,896,108 343,528,015 93,076,127 1,706,344 2,249,260
Employer Contributions Plan Member Contributions Net Investment Income (Loss) Total Additions Deductions From Fiduciary Net Position Pension Benefits Refunds Administrative Expense Total Deductions Change in Fiduciary Net Position Restricted for	\$	76,966,471 26,746,289 154,988,199 258,700,959 121,138,269 2,033,847 2,791,409 125,963,525	\$	63,024,559 25,463,745 252,309,706 340,798,010 114,290,758 2,553,100 2,644,554 119,488,412	\$	58,196,310 23,916,508 (31,322,276) 50,790,542 106,928,097 1,237,713 2,315,223 110,481,033	\$	53,849,031 22,960,235 68,722,781 145,532,047 99,811,849 2,046,307 2,378,966 104,237,122	\$	46,763,996 21,867,911 274,896,108 343,528,015 93,076,127 1,706,344 2,249,260 97,031,731
Employer Contributions Plan Member Contributions Net Investment Income (Loss) Total Additions Deductions From Fiduciary Net Position Pension Benefits Refunds Administrative Expense Total Deductions Change in Fiduciary	\$	76,966,471 26,746,289 154,988,199 258,700,959 121,138,269 2,033,847 2,791,409	\$	63,024,559 25,463,745 252,309,706 340,798,010 114,290,758 2,553,100 2,644,554	\$	58,196,310 23,916,508 (31,322,276) 50,790,542 106,928,097 1,237,713 2,315,223	\$	53,849,031 22,960,235 68,722,781 145,532,047 99,811,849 2,046,307 2,378,966	\$	46,763,996 21,867,911 274,896,108 343,528,015 93,076,127 1,706,344 2,249,260
Employer Contributions Plan Member Contributions Net Investment Income (Loss) Total Additions Deductions From Fiduciary Net Position Pension Benefits Refunds Administrative Expense Total Deductions Change in Fiduciary Net Position Restricted for Pension Benefits Fiduciary Net Position Restricted for Pension Benefits	\$	76,966,471 26,746,289 154,988,199 258,700,959 121,138,269 2,033,847 2,791,409 125,963,525	\$ \$	63,024,559 25,463,745 252,309,706 340,798,010 114,290,758 2,553,100 2,644,554 119,488,412 221,309,598	\$	58,196,310 23,916,508 (31,322,276) 50,790,542 106,928,097 1,237,713 2,315,223 110,481,033	\$ \$	53,849,031 22,960,235 68,722,781 145,532,047 99,811,849 2,046,307 2,378,966 104,237,122	\$ \$	46,763,996 21,867,911 274,896,108 343,528,015 93,076,127 1,706,344 2,249,260 97,031,731
Employer Contributions Plan Member Contributions Net Investment Income (Loss) Total Additions Deductions From Fiduciary Net Position Pension Benefits Refunds Administrative Expense Total Deductions Change in Fiduciary Net Position Restricted for Pension Benefits Fiduciary Net Position Restricted	\$ \$	76,966,471 26,746,289 154,988,199 258,700,959 121,138,269 2,033,847 2,791,409 125,963,525	\$ \$	63,024,559 25,463,745 252,309,706 340,798,010 114,290,758 2,553,100 2,644,554 119,488,412	\$ \$	58,196,310 23,916,508 (31,322,276) 50,790,542 106,928,097 1,237,713 2,315,223 110,481,033	\$ \$	53,849,031 22,960,235 68,722,781 145,532,047 99,811,849 2,046,307 2,378,966 104,237,122	\$ \$	46,763,996 21,867,911 274,896,108 343,528,015 93,076,127 1,706,344 2,249,260 97,031,731

Additions by Source (for fiscal years ending June 30)

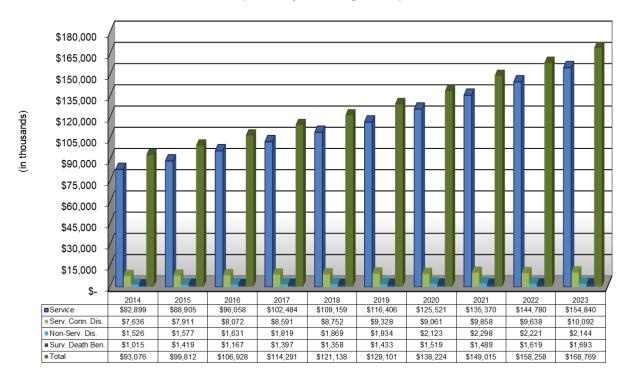


Data Source: ACFR Financial Section, Statement of Changes in Fiduciary Net Position



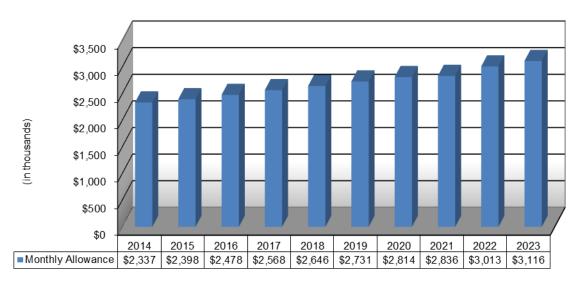
Data Source: ACFR Financial Section, Statement of Changes in Fiduciary Net Position

Benefit Expenses by Type (for fiscal years ending June 30)



Data Source: StanCERA Pension Administration System

Average Monthly Retirement Benefits (for fiscal years ending June 30)

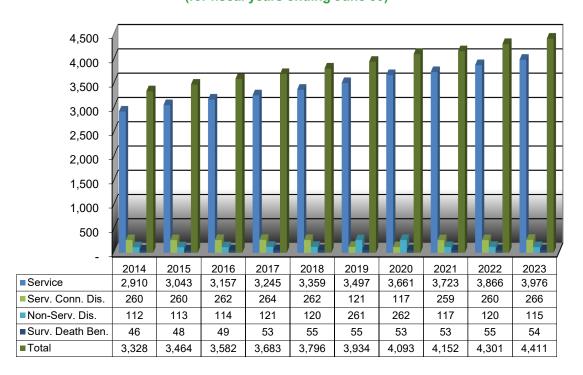


RETIRED MEMBERS BY BENEFIT TYPE as of June 30, 2023

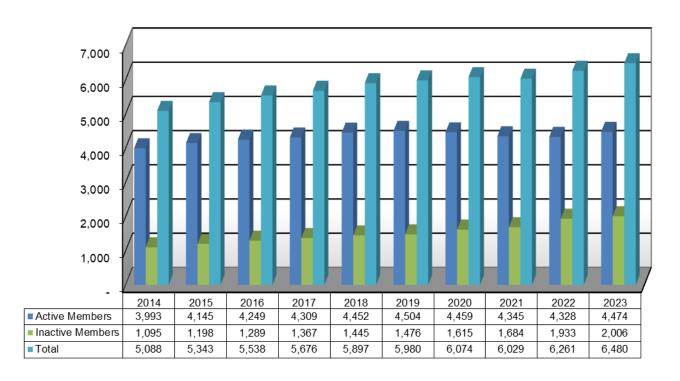
Amount Monthly Benefit	Total # Retirees	Service Retirement	Service Connected Disability	Non-Service Disability	Survivors
General Members					
\$0-500	324	314	2	5	3
501-1,000	425	390	0	20	15
1,001-1,500	492	439	7	31	15
1,501-2,000	440	383	23	31	3
2,001-2,500	374	336	26	9	3
2,501-3,000	296	270	21	4	1
3,001-3,500	243	224	15	3	1
3,501-4,000	195	191	4	0	0
4,001-4,500	176	174	0	0	2
4,501-5,000	119	117	2	0	0
over 5,000	552	549	_ 1	1	1
Totals	3,636	3,387	101	104	44
Safety Members					
\$0-500	33	16	16	1	0
501-1,000	28	22	3	1	2
1,001-1,500	31	30	0	1	0
1,501-2,000	37	34	1	2	0
2,001-2,500	41	34	2	4	1
2,501-3,000	38	29	8	1	0
3,001-3,500	79	38	40	0	1
3,501-4,000	88	34	50	1	3
4,001-4,500	59	41	17	0	1
4,501-5,000	53	42	10	0	1
over 5,000	286	269	16	0	1
Totals	773	589	163	11	10
TOTALS	4,409	3,976	264	115	54

AVERAGE BENEFIT PAYMENTS As of Fiscal Year-End June 30	S							
, 10 or 1 10 or 1 or 1	Beneficiaries			Servic	e Years Cred	dited		
	& DRO's	0-5	5-10	10-15	15-20	20-25	25-30	30+
Fiscal Year Ending June 30, 2014	a Dicos	0-3	3-10	10-13	13-20	20-23	25-50	30.
Average Monthly Benefit	\$1,467	\$651	\$1,124	\$1,354	\$2,082	\$2,836	\$4,088	\$5,427
Avg Final Average Salary	\$2,745	\$5,272	\$4,205	\$3,927	\$4,235	\$4,596	\$5,089	\$5,948
Number of Active Retirees	389	206	394	680	524	488	353	349
Fiscal Year Ending June 30, 2015								
Average Monthly Benefit	\$1,508	\$638	\$1,143	\$1,403	\$2,164	\$2,938	\$4,217	\$5,566
Avg Final Average Salary	\$2,846	\$5,627	\$4,328	\$4,055	\$4,379	\$4,675	\$5,175	\$6,047
Number of Active Retirees	399	222	407	699	551	511	375	360
Fiscal Year Ending June 30, 2016								
Average Monthly Benefit	\$1,548	\$652	\$1,186	\$1,462	\$2,231	\$3,034	\$4,342	\$5,669
Avg Final Average Salary	\$2,901	\$5,766	\$4,535	\$4,187	\$4,513	\$4,779	\$5,297	\$6,061
Number of Active Retirees	412	230	420	699	573	525	398	380
Fiscal Year Ending June 30, 2017	· · · =				0.0			
Average Monthly Benefit	\$1,620	\$791	\$1,203	\$1,520	\$2,338	\$3,172	\$4,482	\$5,790
Avg Final Average Salary	\$3,006	\$5,453	\$4,588	\$4,293	\$4,666	\$4,946	\$5,413	\$6,076
Number of Active Retirees	378	274	438	716	593	547	413	384
Fiscal Year Ending June 30, 2018	0.0					<u> </u>		
Average Monthly Benefit	\$1,768	\$801	\$1,208	\$1,551	\$2,406	\$3,289	\$4,600	\$5,912
Avg Final Average Salary	\$3,617	\$5,738	\$4,679	\$4,379	\$4,776	\$5,123	\$5,512	\$6,102
Number of Active Retirees	333	281	461	732	614	548	430	397
Fiscal Year Ending June 30, 2019						0.0		
Average Monthly Benefit	\$1,851	\$891	\$1,222	\$1,616	\$2,503	\$3,493	\$4,713	\$6,057
Avg Final Average Salary	\$3,674	\$6,014	\$4,734	\$4,487	\$4,907	\$5,361	\$5,574	\$6,203
Number of Active Retirees	351	298	470	753	642	572	440	408
Fiscal Year Ending June 30, 2020						<u> </u>		
Average Monthly Benefit	\$1,796	\$1,288	\$1,374	\$2,970	\$3,319	\$5,264	\$11,881	\$6,857
Avg Final Average Salary	\$3,422	\$6,235	\$4,843	\$4,592	\$5,039	\$5,495	\$5,775	\$6,290
Number of Active Retirees	445	308	486	771	665	604	464	425
Fiscal Year Ending June 30, 2021								
Average Monthly Benefit	\$1,979	\$1,040	\$1,272	\$1,791	\$2,710	\$3,839	\$5,161	\$6,547
Avg Final Average Salary	\$4,109	\$5,958	\$4,898	\$4,751	\$5,156	\$5,636	\$5,885	\$6,447
Number of Active Retirees	501	284	488	770	669	617	462	435
Fiscal Year Ending June 30, 2022						0.,		.00
Average Monthly Benefit	\$2,021	\$1,076	\$1,292	\$1,843	\$2,799	\$3,984	\$5,310	\$6,772
Avg Final Average Salary	\$3,789	\$5,937	\$5,077	\$4,822	\$5,253	\$5,816	\$6,018	\$6,570
Number of Active Retirees	533	302	514	772	687	647	476	453
Fiscal Year Ending June 30, 2023			<u> </u>			<u> </u>		.50
Average Monthly Benefit	\$2,057	\$774	\$1,310	\$1,905	\$2,885	\$4,146	\$5,544	\$6,956
Avg Final Average Salary	\$3,507	\$7,192	\$5,281	\$4,956	\$5,401	\$6,042	\$6,204	\$6,678
Number of Active Retirees	550	284	528	780	712	677	492	477

Membership History (Retired) (for fiscal years ending June 30)



Membership History (Active & Deferred) (for fiscal years ending June 30)



PARTICIPATING EMPLOYERS AND ACTIVE MEMBERS WITH PERCENTAGE OF TOTAL SYSTEM for fiscal years ending June 30

	2023		2022		2021		2020		2019	
Stanislaus County:						•				
General Members	3,295	73.6%	3,181	73.5%	3,181	73.2%	3,273	73.4%	3,305	73.4%
Safety Members	736	16.5%	706	16.3%	717	16.5%	726	16.3%	734	16.3%
Total	4,031	,	3,887	,	3,898	•	3,999		4,039	
Participating Agencies:										
Stanislaus County Superior Court	233	5.2%	230	5.3%	225	5.2%	234	5.2%	239	5.3%
City of Ceres	160	3.6%	161	3.7%	182	4.2%	186	4.2%	185	4.1%
East Side Mosquito Abatement District	9	0.2%	9	0.2%	9	0.2%	9	0.2%	10	0.2%
Hills Ferry Cemetery District	3	0.1%	3	0.1%	3	0.1%	3	0.1%	3	0.1%
Keyes Community Services District Stanislaus Regional Transit Authority	6 13	0.1% 0.3%	7 11	0.2% 0.3%	7	0.2% 0.0%	7	0.2% 0.0%	7	0.2% 0.0%
Salida Sanitary District	7	0.3%	7	0.3%	7	0.0%	7	0.0%	7	0.0%
Stanislaus Council of Governments	12	0.3%	13	0.3%	14	0.3%	14	0.3%	14	0.2%
Total	443	,	441	,	447		460		465	
Total Active Membership	4,474		4,328		4,345		4,459		4,504	
,		:		:		:				
	2018		2017	,	2016		2015		2014	
Stanislaus County:	2018	,	2017		2016		2015		2014	
General Members	3,307	74.3%	3,202	74.3%	3,156	74.3%	3,062	73.9%	2,963	74.2%
·		74.3% 16.2%		74.3% 15.7%		74.3% 15.2%		73.9% 15.5%		74.2% 15.1%
General Members	3,307		3,202		3,156		3,062		2,963	
General Members Safety Members	3,307 721		3,202 676		3,156 645		3,062 643		2,963 602	
General Members Safety Members Total Participating Agencies:	3,307 721 4,028	16.2%	3,202 676 3,878	15.7%	3,156 645 3,801	15.2%	3,062 643 3,705	15.5%	2,963 602 3,565	15.1%
General Members Safety Members Total Participating Agencies: Stanislaus County Superior Court	3,307 721 4,028	4.9%	3,202 676 3,878	5.0%	3,156 645 3,801	5.4%	3,062 643 3,705	5.4%	2,963 602 3,565	15.1% 5.3%
General Members Safety Members Total Participating Agencies: Stanislaus County Superior Court City of Ceres	3,307 721 4,028	16.2%	3,202 676 3,878	15.7%	3,156 645 3,801	15.2%	3,062 643 3,705	15.5%	2,963 602 3,565	15.1%
General Members Safety Members Total Participating Agencies: Stanislaus County Superior Court City of Ceres East Side Mosquito Abatement District Hills Ferry Cemetery District	3,307 721 4,028 219 171 9 3	4.9% 3.8% 0.2% 0.1%	3,202 676 3,878 217 180	5.0% 4.2%	3,156 645 3,801 228 184 10 3	5.4% 4.3% 0.2% 0.1%	3,062 643 3,705 224 181	5.4% 4.4%	2,963 602 3,565 212 181	15.1% 5.3% 4.5%
General Members Safety Members Total Participating Agencies: Stanislaus County Superior Court City of Ceres East Side Mosquito Abatement District Hills Ferry Cemetery District Keyes Community Services District	3,307 721 4,028 219 171 9 3 6	4.9% 3.8% 0.2% 0.1% 0.1%	3,202 676 3,878 217 180 9 3 6	5.0% 4.2% 0.2% 0.1% 0.1%	3,156 645 3,801 228 184 10 3 6	5.4% 4.3% 0.2% 0.1% 0.2%	3,062 643 3,705 224 181 8 3 6	5.4% 4.4% 0.2% 0.1% 0.1%	2,963 602 3,565 212 181 9 3 6	5.3% 4.5% 0.2% 0.1% 0.1%
General Members Safety Members Total Participating Agencies: Stanislaus County Superior Court City of Ceres East Side Mosquito Abatement District Hills Ferry Cemetery District	3,307 721 4,028 219 171 9 3 6 6	4.9% 3.8% 0.2% 0.1% 0.1%	3,202 676 3,878 217 180 9 3 6 7	5.0% 4.2% 0.2% 0.1% 0.1% 0.2%	3,156 645 3,801 228 184 10 3 6 7	5.4% 4.3% 0.2% 0.1% 0.2% 0.2%	3,062 643 3,705 224 181 8 3 6 7	5.4% 4.4% 0.2% 0.1% 0.1% 0.2%	2,963 602 3,565 212 181 9 3 6 7	5.3% 4.5% 0.2% 0.1% 0.2%
General Members Safety Members Total Participating Agencies: Stanislaus County Superior Court City of Ceres East Side Mosquito Abatement District Hills Ferry Cemetery District Keyes Community Services District Stanislaus Council of Governments	3,307 721 4,028 219 171 9 3 6	4.9% 3.8% 0.2% 0.1% 0.1%	3,202 676 3,878 217 180 9 3 6	5.0% 4.2% 0.2% 0.1% 0.1%	3,156 645 3,801 228 184 10 3 6	5.4% 4.3% 0.2% 0.1% 0.2%	3,062 643 3,705 224 181 8 3 6	5.4% 4.4% 0.2% 0.1% 0.1%	2,963 602 3,565 212 181 9 3 6	5.3% 4.5% 0.2% 0.1% 0.1%
General Members Safety Members Total Participating Agencies: Stanislaus County Superior Court City of Ceres East Side Mosquito Abatement District Hills Ferry Cemetery District Keyes Community Services District	3,307 721 4,028 219 171 9 3 6 6	4.9% 3.8% 0.2% 0.1% 0.1%	3,202 676 3,878 217 180 9 3 6 7	5.0% 4.2% 0.2% 0.1% 0.1% 0.2%	3,156 645 3,801 228 184 10 3 6 7	5.4% 4.3% 0.2% 0.1% 0.2% 0.2%	3,062 643 3,705 224 181 8 3 6 7	5.4% 4.4% 0.2% 0.1% 0.1% 0.2%	2,963 602 3,565 212 181 9 3 6 7	5.3% 4.5% 0.2% 0.1% 0.2%
General Members Safety Members Total Participating Agencies: Stanislaus County Superior Court City of Ceres East Side Mosquito Abatement District Hills Ferry Cemetery District Keyes Community Services District Stanislaus Council of Governments	3,307 721 4,028 219 171 9 3 6 6 10	4.9% 3.8% 0.2% 0.1% 0.1%	3,202 676 3,878 217 180 9 3 6 7	5.0% 4.2% 0.2% 0.1% 0.1% 0.2%	3,156 645 3,801 228 184 10 3 6 7 10	5.4% 4.3% 0.2% 0.1% 0.2% 0.2%	3,062 643 3,705 224 181 8 3 6 7 11	5.4% 4.4% 0.2% 0.1% 0.1% 0.2%	2,963 602 3,565 212 181 9 3 6 7	5.3% 4.5% 0.2% 0.1% 0.2%

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STANISLAUS COUNTY EMPLOYEES' RETIREMENT ASSOCIATION

REPORT TO THE BOARD OF RETIREMENT AND INTERNAL GOVERNANCE COMMITTEE

FOR THE FISCAL YEAR ENDED JUNE 30, 2023

STANISLAUS COUNTY EMPLOYEES' RETIREMENT ASSOCIATION

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REQUIRED COMMUNICATION TO THE MEMBERS OF THE BOARD OF RETIREMENT AND INTERNAL GOVERNANCE COMMITTEE IN ACCORDANCE WITH PROFESSIONAL STANDARDS (SAS 114)

To the Board of Retirement and Internal Governance Committee of Stanislaus County Employees' Retirement Association Modesto. California

We have audited the financial statements of the Stanislaus County Employees' Retirement Association (StanCERA) as of and for the fiscal year ended June 30, 2023, and have issued our report dated November 20, 2023. Professional standards require that we provide you with information about our responsibilities under auditing standards generally accepted in the United States of America and Government Auditing Standards, as well as certain information related to the planned scope and timing of our audit. We have communicated such information in our letter to you dated June 16, 2023. Professional standards also require that we communicate to you the following information related to our audit.

Significant Audit Matters

Qualitative Aspects of Accounting Practices

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by StanCERA are described in Note 2, Summary of Significant Accounting Policies, to the financial statements. As described in Note 2, to the financial statements, StanCERA changed accounting policies related to Subscription-Based Information Technology Arrangements (SBITAs) by adopting Governmental Accounting Standards Board (GASB) Statement No. 96, Subscription-Based Information Technology Arrangements, in the fiscal year ended June 30, 2023. Accordingly, the cumulative effect of the accounting change as of the beginning of the year was insignificant and not reported in the Statement of Fiduciary Net Position. We noted no transactions entered into by StanCERA during the fiscal year for which there is a lack of authoritative guidance or consensus. All significant transactions have been recognized in the financial statements in the proper period.

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected. The most sensitive estimates affecting StanCERA's financial statements were:

 Management's estimate of the fair value of investments, which was derived by various methods as detailed in the notes to the financial statements. We evaluated the key factors and assumptions used to develop the estimate of the fair value of investments in determining that it is reasonable in relation to the financial statements taken as a whole.

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 The contribution amounts and net pension liability as detailed in the notes to the financial statements, which are based on the actuarially presumed interest rate and assumptions. We evaluated the key factors and assumptions used to develop the estimates of contribution amounts and net pension liability in determining that they are reasonable in relation to the financial statements taken as a whole.

Certain financial statement disclosures are particularly sensitive because of their significance to financial statement users. The most sensitive disclosures affecting the financial statements were:

- The disclosures for cash and investments in Notes 2 and 4 to the financial statements, Summary of Significant Accounting Policies and Cash and Investments, respectively, were derived from StanCERA's investment policy. Management's estimate of the fair value of investments was derived by various methods as detailed in the notes to the financial statements.
- Additionally, the disclosures related to the funding policies, net pension liability, and actuarial
 methods and assumptions in Note 1, Description of Plan; Note 5, Contributions; and Note 8,
 Net Pension Liability of Participating Employers, were derived from actuarial valuations,
 which involved estimates of the value of reported amounts and probabilities about the
 occurrence of future events far into the future.

The financial statement disclosures are neutral, consistent, and clear.

Difficulties Encountered in Performing the Audit

We encountered no significant difficulties in dealing with management in performing and completing our audit.

Corrected and Uncorrected Misstatements

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are clearly trivial, and communicate them to the appropriate level of management. We did not identify any misstatements as a result of our audit procedures.

Disagreements with Management

For purposes of this letter, a disagreement with management is a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements arose during the course of our audit.

Management Representations

We have requested certain representations from management that are included in the management representation letter dated November 20, 2023.

Management Consultations with Other Independent Accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to StanCERA's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

Other Audit Findings or Issues

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as StanCERA's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

Other Matters

We applied certain limited procedures to the Management's Discussion and Analysis, Schedule of Changes in Net Pension Liability and Related Ratios, Schedule of Employer Contributions, Schedule of Investment Returns, and Notes to the Required Supplementary Information (RSI), which are RSI that supplement the basic financial statements. Our procedures consisted of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during the audit of the basic financial statements. We did not audit the RSI and do not express an opinion or provide any assurance on the RSI.

We were engaged to report on the Schedule of Administrative Expenses, Schedule of Investment Management Fees and Other Investment Expenses, and Schedule of Payments to Consultants, which accompany the financial statements but are not RSI. With respect to this other supplemental information, we made certain inquiries of management and evaluated the form, content, and methods of preparing the information to determine that the information complies with accounting principles generally accepted in the United States of America. The method of preparing it has not changed from the prior period, and the information is appropriate and complete in relation to our audit of the financial statements. We compared and reconciled the other supplemental information to the underlying accounting records used to prepare the financial statements or to the financial statements themselves.

We were not engaged to report on the introductory, investment, actuarial, and statistical sections, which accompany the financial statements but are not RSI. We did not audit or perform other procedures on this other information and we do not express an opinion or provide any assurance on it.

Restriction on Use

This information is intended solely for the use of the Board of Retirement, Internal Governance Committee, and management of StanCERA and is not intended to be, and should not be, used by anyone other than these specified parties.

BROWN ARMSTRONG
ACCOUNTANCY CORPORATION
Brown Armstrong
Secountancy Corporation

Stockton, California November 20, 2023



INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS

To the Board of Retirement and Internal Governance Committee of Stanislaus County Employees' Retirement Association Modesto. California

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the Stanislaus County Employees' Retirement Association (StanCERA) as of and for the fiscal year ended June 30, 2023, and the related notes to the financial statements, which collectively comprise StanCERA's basic financial statements, and have issued our report thereon dated November 20, 2023.

Report on Internal Control over Financial Reporting

In planning and performing our audit of the financial statements, we considered StanCERA's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of StanCERA's internal control. Accordingly, we do not express an opinion on the effectiveness of StanCERA's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements, on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses or significant deficiencies may exist that were not identified.

Report on Compliance and Other Matters

As part of obtaining reasonable assurance about whether StanCERA's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

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Purpose of This Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of StanCERA's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering StanCERA's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

BROWN ARMSTRONG
ACCOUNTANCY CORPORATION

Brown Armstrong Secountaincy Corporation

Stockton, California November 20, 2023



AGREED UPON CONDITIONS REPORT DESIGNED TO IMPROVE EFFICIENCY, INTERNAL CONTROLS, AND/OR FINANCIAL REPORTING (MANAGEMENT LETTER)

To the Board of Retirement and Internal Governance Committee of Stanislaus County Employees' Retirement Association Modesto. California

We have audited the financial statements of the Stanislaus County Employees' Retirement Association (StanCERA) as of and for the fiscal year ended June 30, 2023, and have issued our report dated November 20, 2023. In planning and performing our audit of the financial statements of StanCERA, we considered its internal control structure over financial reporting (internal control) as a basis for designing our auditing procedures for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of StanCERA's internal control. Accordingly, we do not express an opinion on the effectiveness of StanCERA's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented or detected and corrected on a timely basis.

Our consideration of internal control was for the limited purpose described in the first paragraph and was not designed to identify all deficiencies in internal control that might be material weaknesses. In addition, because of inherent limitations in internal control, including the possibility of management override of controls, misstatements due to error or fraud may occur and not be detected by such controls. Given these limitations during our audit, we did not identify any deficiencies in internal control that we considered to be material weaknesses. However, material weaknesses may exist that have not been identified.

The results of our audit disclosed no recommendations for the current year, and we are providing the disposition of the prior year comments.

Restriction on Use

This report is intended solely for the information and use of the Board of Retirement, Internal Governance Committee, and management of StanCERA and is not intended to be, and should not be, used by anyone other than these specified parties.

BROWN ARMSTRONG

ACCOUNTANCY CORPORATION

Scountancy Corporation

Stockton, California November 20, 2023

Current Year Agreed Upon Conditions and Recommendations

No agreed upon conditions or recommendations for the current year.

Prior Year Agreed Upon Conditions and Recommendations

<u>Agreed Upon Condition 1 – Payroll Variance</u>

While performing our recalculation of pensionable gross pay for one member, we noted that the gross pay reported by StanCERA in the Arrivos system did not agree with the pensionable gross pay items reported by Stanislaus Regional Transit Authority (StanRTA) on the employee pay stub. During our review, we noted this member was an hourly employee, and it appears an average of hours per pay period were used as the basis for determining contributions to StanCERA. Based on an internal review conducted by StanCERA and StanRTA, the discrepancy was determined to have only affected StanRTA's three hourly employees, and the overall effect on contributions was negligible. However, it is important that pensionable salary and contribution amounts being reported by StanRTA are the actual amounts recorded by StanCERA in order to ensure accurate records.

Recommendation

We recommend that StanCERA inform StanRTA of the importance of ensuring that the pensionable wages reported on the pay stub match the amount being reported to StanCERA for all employees, including hourly. In addition, StanCERA should implement an internal review, possibly in the form of an internal audit team, for employer reporting records in order to ensure accuracy and avoid similar discrepancies in the future.

Management Response

Upon discovery of the discrepancy, StanCERA met with StanRTA to review the process of reporting wages and hours. As a result, the identified records were reconciled against the employees' pay statements to ensure the gross wages on record with StanCERA match the gross wages paid. Lastly, contribution analyses were completed to correct the contribution amounts for each employee identified.

StanCERA concurs with Brown Armstrong's recommendation of implementing an internal review process. This process is currently being developed and will be implemented by the end of the first quarter in 2023.

Current Year Status

StanCERA has maintained good ongoing communication and education with plan sponsors including identification of new pay elements and resolution of situational events that are present throughout the year to uphold the integrity of the salary and service information received. Spot reviews for these situations have been employed. However, StanCERA did not fully complete development, documentation and implementation of the internal review process for the fiscal year ending June 30, 2023.

This recommendation and plan to document and implement the formal process remains an initiative for StanCERA and it has been included as an action item in the StanCERA strategic plan.

<u>Agreed Upon Condition 2 – Review of Correcting Entries</u>

While performing our review of investment values, we noted an approximately \$15 million variance between the market value of an investment recorded by StanCERA and the market value recorded by the investment manager and custodian. Per discussion with StanCERA, an entry was made to correct the investment balance. However, the correcting entry was input incorrectly which resulted in an overstated market value for the investment.

Recommendation

We recommend that all correcting entries be reviewed for accuracy prior to posting in order to ensure that no errors are made while posting correcting entries.

Management Response

StanCERA concurs with Brown Armstrong's recommendation. StanCERA processes are being reviewed and will be amended to include the additional review of the pre-posting balances. This may include, but not limited to, an additional peer review step and post-entry assessment to ensure accuracy.

Current Year Status

StanCERA has implemented this practice and has added additional review steps for posting activity related to alternative investments. Review of ledger balances are completed after the record of transactions by fund is completed. StanCERA staff is refining the process for posting investment values and activity and will be making additional updates to process documentation as well that reflect the controls in place.