

### Stanislaus County Employees' Retirement Association

832 12th Street, Ste. 600, Modesto, CA 95354 • PO Box 3150, Modesto, CA 95353 • www.stancera.org • 209-525-6393 • 209-558-4976 Fax

#### **AGENDA**

BOARD OF RETIREMENT 832 12<sup>th</sup> Street, Ste 600 Modesto, CA 95354

January 20, 2016 1:00 p.m.

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

CONSENT ITEMS: These matters include routine administrative actions and are identified under the Consent Items heading.

**PUBLIC COMMENT:** Matters under jurisdiction of the Board, may be addressed by the general public before or during the regular agenda. However, California law prohibits the Board from taking action on any matter which is not on the posted agenda unless it is determined an emergency by the Board of Retirement. Any member of the public wishing to address the Board during the "Public Comment," period shall be permitted to be heard once up to three minutes. Please complete a Public Comment Form and give it to the Chair of the Board. Any person wishing to make a presentation to the Board must submit the presentation in written form, with copies furnished to all Board members. Presentations are limited to three minutes.

**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.

Materials related to an item on this Agenda submitted to the Board after distribution of the agenda packet are available for public inspection at StanCERA, 832 12th Street, Suite 600, Modesto, CA 95354, during normal business hours.

**AUDIO:** All Board of Retirement regular meetings are audio recorded. Audio recordings of the meetings are available after the meetings at <a href="http://www.stancera.org/agenda">http://www.stancera.org/agenda</a>.

**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.

**REASONABLE ACCOMMODATIONS**: In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary at (209) 525-6393. Notification 72 hours prior to the meeting will enable StanCERA to make reasonable arrangements to ensure accessibility to this meeting.

- Meeting Called to Order
- 2. Roll Call
- 3. Announcements
- 4. Public Comment
- Consent Items
  - a. Approval of the December 16, 2015 Meeting Minutes View
  - b. Approval of the 2016 StanCERA Master Calendar View
  - c. Receipt of the 2016 Board of Retirement Standing Committee Assignments View
  - d. Executive Director Goals Update Quarter 4 2015 <u>View</u>
  - e. Accept the 2015 Continuing Education Record and the 2016 Education Opportunities View
  - f. StanCERA Complaint Log of October 1 December 1, 2015 View
  - g. Monthly Staff Report View
  - h . Approval of Service Retirement(s) Sections 31499.14, 31670, 31662.2 & 31810
    - Camelio, David Probation Effective 01-09-2016 \*
    - 2. Huntley, Rosemarie Auditor/Controller Effective 01-05-2016
    - 3. Lamela, Debra Sheriff Effective 01-15-2016
    - 4. Lundeberg, Erik Public Defender Effective 01-21-2016
    - 5. O'Dell, Julie Alliance Worknet Effective 12-23-2015

- 6. Passanisi, Kathleen HSA Effective 11-14-2015
- 7. Rosales, Arturo HSA Effective 01-05-16
- 8. Thompson-Ryan, Pamela CSA Effective 01-06-2016
- 9. Wade, Pamela Probation– Effective 01-09-2016
- 10. Weeks, Marlene Probation Effective 01-09-2016
  - \* Indicates Safety Personnel
- i. Approval of Deferred Retirement(s) Section 31700
  - 1. Anderson, Vanessa CSA Effective 12-12-2015
  - 2. Castro, Norbert City of Ceres Effective 05-21-2015 \*
  - 3. Chapman, Jason City of Ceres Effective 11-07-2015 \*
  - 4. Ellis, Linda HSA Effective 12-12-2015
  - 5. Fredeking, Tobias BHRS Effective 10-15-2015
  - 6. Graves, Stephanie CSA Effective 10-17-2015
  - 7. Lee, Bee CSA Effective 01-05-2016
  - 8. Lillie, Michael City of Ceres Effective 11-28-2015 \*
  - 9. Uemura, Scott District Attorney Effective 04-04-2015
- j. Approval of Disability Retirement Section 31724
  - Freeman Jr., Jimmy Deputy Sheriff, Service-Connected, Effective 06-02-2015 \*
     \* Indicates Safety Personnel
- k. Approval of Death Benefit **Sections 31781, 31781.1, and 31781.3** 
  - 1. Armstrong, Carla, Deceased, January 7,2016 Active Member
- 6. Executive Director Administrative
  - a. Information Technology Solutions (ITS) Project Update View
  - b. Discussion and Action for Consideration of State Association of County Retirement Systems (SACRS) 2016 Legislative Proposals. View
  - c. Discussion and Action Executive Director Goals for 2016 View
  - d. Discussion and Action regarding the preliminary June 30, 2015 Actuarial Valuation Cheiron Actuaries <u>View</u>
- 7. Executive Director Investment

None

- 8. Verus Investment Consultant
  - a. November 30, 2015 Flash Report View
  - b. December 31, 2015 Flash Report
  - c. Risk Tolerance Allocation Study View
  - d. Discussion and Action Regarding Asset Allocation Study View

### 9. Closed Session

- a. Discussion and Action Regarding Investment in Raven Capital Management Government Code Section 54956.81
- b. Conference with Legal Counsel Pending Litigation One Case:
   O'Neal et al v. Stanislaus County Employees' Retirement Association
   Stanislaus County Superior Court Case No. 648469
   Government Code Section 54956.9(d)(1)
- c. Conference with Legal Counsel Pending Litigation One Case:
   Nasrawi et al v. Buck Consultants, LLC, et.al, Santa Clara County
   Superior Court Case No. 1-11-CV202224; Court of Appeal, Sixth Appellate
   District, Case No. H038894 Government Code Section 54956.9(d)(1)
- 10. Members' Forum (Information and Future Agenda Requests Only)
- 11. Adjournment

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# BOARD OF RETIREMENT MINUTES December 16, 2015

Trustees Present:

Jim DeMartini, Michael O'Neal, Jeff Grover, Donna Riley

Sam Sharpe and Jegan Raja (for Gordon Ford)

**Alternate Trustee** 

Joan Clendenin, Alternate Retiree Representative

**Trustees Absent:** 

Jason Gordo, Mike Lynch and Gordon Ford

**Staff Present:** 

Rick Santos, Executive Director

Kathy Herman, Fiscal Services Manager

Dawn Lea, Member and Employer Services Manager

Kellie Gomes, Executive Board Assistant

Others Present:

Fred Silva, General Legal Counsel Ed Hoffman, Investment Consultant Bryce Haws, Linea Consultant

### Meeting Called to Order

Meeting called to order 2:04 p.m. by Trustee Riley, Chair

### Roll Call

### 3. Announcements

Kellie Gomes announced that Trustee Riley would assume the role of Chair for the remainder of this calendar year and all of 2016.

Kellie Gomes announced that Trustee Gordo would assume the role of Vice-Chair for the remainder of this calendar year and all of 2016.

### 4. Public Comment

None

### 5. Consent Items

Trustee Sharpe asked to be recused from voting on Item 5.f and left the room.

- a. Approval of the November 24, 2015 Meeting Minutes
- b. Monthly Staff Report
- c. Report on Earnings Allocation for Fiscal Year 2015
- d. Approval of Service Retirement(s) Sections 31499.14, 31670, 31662.2 & 31810
  - 1. Adkins, John City of Ceres– Effective 12-06-2015
  - 2. Alvarez, Marta BHRS Effective 12-30-2015
  - 3. Benjamin, Ann– CSA Effective 12-12-2015
  - 4. Camelio, David Probation- Effective 12-29-2015 \*
  - 5. Chmielski, Patsy CEO Effective 12-20-2015
  - 6. Edwards, Debbie-Superior Courts Effective 11-04-2015
  - 7. McCandless, Martha- HSA- Effective 12-02-2015

- 8. Rickett, Marilyn BHRS Effective 12-25-2015
- 9. Sanson, David Sheriff Effective 03-21-2015 \*
- 10. Tarancon, Trinidad BHRS Effective 11-26-2015
- 11. Wood, Ronald Superior Courts Effective 12-31-2015
  - \* Indicates Safety Personnel
- e. Approval of Deferred Retirement(s) Section 31700
  - 1. Foster, Jeannine CSA Effective 11-14-2015
  - 2. Lagorio, Kathleen Superior Courts Effective 12-01-2015
  - 3. Pen Rocha, Phannary CSA Effective 11-11-2015
- f. Approval of Disability Retirement Section 31724
  - 1. Smith, Tonya Police Officer, Service-Connected, Effective 12-17-2015 \*
    - \* Indicates Safety Personnel
- g. Approval of Death Benefit Sections 31781, 31781.1, and 31781.3
  - 1. Fielder, Jeremy, Active Member

Motion was made by Trustee Grover and seconded by Trustee O'Neal to approve consent item 5.f as presented.

Motion carried unanimously

Trustee Sharpe returned to the room.

Motion was made by Trustee Grover and seconded by Trustee O'Neal to approve all other consent items as presented minus item 5.f.

Motion carried unanimously

- 6. Executive Director Administrative
  - a. Discussion and Action Regarding Staffing Request

Motion was made by Trustee Grover and seconded by Trustee Sharpe to approve staffing request outlined in the staff recommendation as follows:

- 1. Approve the addition of two new positions, one Member and Employer Services Specialist and one Member and Employer Services Technician. (Attachment 1 & 2)
- 2. Approve an adjustment to the Fiscal Year 2015-2016 Administrative Budget to include \$64,938 for salary, benefits and equipment to set up and fund these positions for the five months remaining in the fiscal year.

Motion carried unanimously

b. Information Technology Solutions (ITS) Project Update

Kathy Herman and Bryce Haws from Linea gave the Board their regular monthly update on the progress of the ITS project

### 7. Committee Reports and Recommendations for Action

### STANDING COMMITTEES

Internal Governance Committee

a. Discussion and Action regarding the following:

StanCERA Bylaws Revision
Excess Earnings and Interest Posting Policy Update
Wire Transfer Policy Update

Motion was made by Trustee Grover and seconded by Trustee O'Neal to approve all three items as presented.

Motion carried unanimously

### 8. Executive Director - Investment

a. Medley Capital Corporation – Educational Presentation

Chris Taube gave an update on the continued market dislocation in the Direct Lending market.

### 9. Closed Session

- a. Conference with Legal Counsel Pending Litigation One Case:
   O'Neal et al v. Stanislaus County Employees' Retirement Association
   Stanislaus County Superior Court Case No. 648469
   Government Code Section 54956.9(d)(1)
- b. Conference with Legal Counsel Pending Litigation One Case: Nasrawi et al v. Buck Consultants, LLC, et.al, Santa Clara County Superior Court Case No. 1-11-CV202224; Court of Appeal, Sixth Appellate District, Case No. H038894 Government Code Section 54956.9(d)(1)

Nothing to Report

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

None

BREAK 11:42 a.m. - 12:45 p.m.

### Asset Liability Study

- Workshop Agenda
- Workshop Introduction
- Role of Asset Classes
- Asset Liability Study
- Investment Strategy Evaluation

### 11. Asset Liability Study (Cont.)

Ed Hoffman of Verus presented the triennial asset liability study. In January, Ed will bring back the two candidate mixes for final refinement from the Board based off the discussion today.

### 12. Adjournment

Meeting adjourned at 3:45 p.m.

Respectfully submitted,

Rick Santos, Executive Director

APPROVED AS TO FORM:

Fred Silva, GENERAL LEGAL COUNSEL

### 2016 Calendar Board Meetings are held every 3rd Wednesday at 1:00p.m.

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### **Investment Manager Presentations**

January	None
February	Legato
March	PIMCO / LSV Asset Management
April	Morgan Stanley
May	Capital Prospects/ Jackson Square Partners
June	Raven
July	Pyramis
August	Medley
September	Dodge & Cox
October	American Reality
November	White Oak Global Advisors, LLC / Greenfield
December	None

## **Standing Committees**

### **Internal Governance Committee**

Areas of Responsibility: Audits, Bylaws Revisions, Policy Revisions, Board Member

Education

Joan Clendenin, Chair Sam Sharpe Donna Riley Staff as needed

### **Due Diligence Committee**

Jason Gordo, Chair Jeff Grover Michael O'Neal Staff as needed

### **Ad-Hoc Committees**

## **2015 Executive Director's Review Committee**

Areas of Responsibility: Assessment of the performance and compensation

recommendation for the positions of Executive Director and

Investment Officer

Chair Donna Riley Vice Chair Jason Gordo Past Chair Michael Lynch\*

Staff as needed

\*Past Chair not possible next vice chair used in place of

## 2017-2019 Strategic Planning Committee

Jim DeMartini Michael O'Neal Sam Sharpe



### STANISLAUS COUNTY EMPLOYEES' RETIREMENT ASSOCIATION 832 12<sup>th</sup> Street, Suite 600 Modesto, CA 95354 P.O. Box 3150 Modesto, CA 95353-3150

Phone (209) 525-6393 Fax (209) 558-4976 www.stancera.org e-mail: retirement@stancera.org

### January 20, 2016, Retirement Board meeting

TO: Retirement Board

FROM: Rick Santos, Executive Director

I. SUBJECT: Executive Director Goals Update Quarter 4

II. ITEM NUMBER: 5.d

III. ITEM TYPE: Consent

IV. STAFF RECOMMENDATION: None

V. EXECUTIVE SUMMARY

Attachment 1 displays Quarter 4 progress on those items that are ongoing for 2015 and for items directly associated with the 2014-2016 Strategic Plan.

Ongoing Items

Items italicized in blue denote progress in Quarter 4. Outstanding disabilities remain below historical averages for Quarter 4 and are 2 less outstanding from Quarter 3.

### Strategic Plan

This agenda item signals the final report card for the 2015 goals. Those items in green represent those items/goals completed this year. Items in red signal items or goals that weren't met for various reasons. Those items not completed in 2016 include:

- Completion of a glide path plan for derisking For various reasons, this item should be reexamined with the Board at its next Strategic Planning session (2016) before beginning this task
- Meet with plan sponsors to discuss risk This item is on Verus' itinerary for 2016
- Development of policies related to manager assessment and disposition This item is on Verus' itinerary for 2016
- Review and amend media policy This item actually fell off staff's radar during the biennial bylaw review process. Staff has already secured suggested changes from legal counsel and will incorporate those into the policy this year

VI. RISK: None

VII. STRATEGIC PLAN: Strategic Objective IV: Refine StanCERA's business and policy practices in ways that enhance stakeholder awareness, the delivery of member services and the ability of the Organization to administer the System effectively and efficiently

Retirement Board – January 20, 2016 Executive Director Goals for 2016 Page 2

VIII. BUDGET IMPACT: None

Rick Santos, Executive Director

Kathy Herman, Fiscal Services Manager

Dawn Lea, Member and Employer Services Manager

### Ongoing/Required Items

- Continued communication, outreach and transparency with major stakeholders such as County, County BOS, Local Governments, Special Districts and Employee Groups
  - Nothing to report
- 2. Facilitate completion of the transition to alternative investments
  - Facilitate various calls, distributions and cash movement
- 3. Complete Custodial Bank Transition
  - Custodial Bank transition complete 2014
- 4. Complete Trustee Elections
  - Seat 3 complete 2014
  - Seat 7 complete 2015
- 5. Complete intermediate and long-term Organizational Structure Review
  - 10 Year Strategic Realignment analysis complete 2014
- 6. Continued monitoring of StanCERA lawsuits
  - Analyses and discussions regarding settlement issues in Buck case
  - Discussions regarding O'Neal appeal and extension
- 7. Director Professional Development
  - SOA Annual Conference
  - Heavy involvement as Chair of the Controller's Retirement Advisory Committee
- 8. Facilitate RFP for an Investment Consultant
  - Investment Consultant acquisition completed
- 9. Oversee and complete day to day administrative functions
  - Disabilities; Organizational goal of 18 or less outstanding disabilities at any one time. Outstanding disabilities are 11 as of December 29th (this compares to 13 outstanding at the end of Quarter 3, 2015)
  - Agenda and minute production for all Board and Committee Meetings
  - Facilitation of Board and Staff travel
  - All retiree payrolls completed on time



- Member contributions and refunds up to date
- Monitoring of Investment Policy and Bylaws
- Daily monitoring of pension issues in media
- Ongoing and regular meetings with Investment Managers
- Facilitate ITS

### Items Explicitly Tied to the 2014-2016 Strategic Plan

- 1. Strategic Plan Objective #1
  - Monitor current costs and risks.
    - Create a program that allows StanCERA to determine the approximate cost to immunize any portion (percentage) of StanCERA's future benefit obligations using current yields available on various government treasuries and high grade corporate bonds – Complete
  - b. Enhance the understanding of various financial hedging tools available
    - Contract with specialists in the area of asset-liability management Nothing to report. Recommend task be revisited at the 2017-2019 Strategic Planning Session
  - c. Communicate with plan sponsors
    - Meet with plan sponsors annually to discuss any issues that may affect StanCERA's future projected cash flows – Complete Q3
    - Meet with plan sponsors annually to determine the sponsor's willingness and capacity to take pension risk – To be completed alongside Verus' plan sponsor analyses
  - d. Develop policy triggers for potential mitigating opportunities
    - Develop a glide path approach to determine when and if efficiencies exist in the bond markets relative to StanCERA's liabilities – Nothing to report.
       Recommend task be revisited a the 2017-2019 Strategic Planning Session
- 2. Strategic Plan Objective #2
  - a. Develop clear and concise processes and policies dedicated to the continual assessment, monitoring and disposition of StanCERA's active managers
    - 1. Develop various reports meant to assess active manager performance
      - Creation of enhanced value added reports Complete

- Creation of risk allocation reports Complete
- Creation of benchmark adherence reports Complete
- 2. Define satisfactory performance with an eye towards asset liability and risk management
  - Nothing to report. Note: Task slated to be completed in 2016
- 3. Define processes and remedies for active managers when performance is deemed to be unsatisfactory (manager continuation policy)
  - Nothing to report. Note: Task is slated to be complete 2016
- 3. Strategic Plan Objective #3
  - a. Optimize StanCERA's organizational resources
    - 1. Review current job duties as they relate to the position, classification and Organizational needs
      - Staff review and documentation of current position and task analysis
      - Current and unique job duty statements for each position completed in Quarter 1
      - Monitoring process completed end of Quarter 2 and job duty statements are now available to be used to evaluate the desk/employee
      - Staff positions have been evaluated and determinations made regarding duty assignments and employee capability
    - 2. Continue to cross train and/or train staff with a goal of establishing multiple levels of backup (ongoing)
      - Accounting specialist training in all aspects of member and fiscal services
      - Accounting specialist training in investment compliance processes
      - Retiree payroll cross training from member services to accounting
      - Back up training for executive secretary regarding Board meeting planning, facilitation and web posting complete
      - Cross train staff for web site maintenance and updating
      - Member and Employer Services Technician and Fiscal Services Technician positions cross trained
  - b. Identify potential programs that will enhance skills and advance development of staff

- Establish in-house training opportunities Complete
- 4. Strategic Plan Objective #4
  - a. Formalize a process to educate StanCERA stakeholders
    - Develop an education/advocacy Committee Task complete
    - Identify StanCERA stakeholders Task complete
    - Outline job duties/responsibilities for a Communications Specialist Complete
    - Determine areas of stakeholder educational needs Task complete
    - Review and amend the media policy To be completed in 2016
  - b. Enhance StanCERA technology in order to optimize human resources and productivity
    - Create a focus group to identify possible technology enhancements Ongoing sessions with IT Consultant
  - c. Expand technology and training to ensure continuity of operations during a natural disaster or a period of major outage
    - Develop testing and training for COOP Quarter 2: Creation of a formal disaster recovery plan was put into place this quarter. The goal of this plan is to identify and address any additional resources necessary in order to assure continuance of operations in the event of an emergency. Staff has also begun the process of researching the cost/benefit of Cyber Insurance designed to provide coverage in the event of a data breach. Quarter 3: COOP information status has been made up to date and remote DR environment successfully tested.
    - Develop a formal schedule and process for disaster drills of Technology systems – Complete

### 2015 STANCERA CONTINUING EDUCATION RECORD

Board Member	Ethics Training Completed	3-Year Rolling Total Education Credits	2013 Total Education Credits	2014 Total Education Credits	2015 Total Education Credits	CALAPRS General Assembly (March) 8.	Ethics AB1234 Training 2	NCPRS (May) 26.50	SACRS Spring Conference (May) 16	OPAL Investment Trends Summit (July) 17.00	CALAPRS Public Pension Investment Mngt Prgm (July) 26.50	SACRS Fall Conference (November) 16
Gordon B. Ford	03/05/14	46.00	18.00	4.00	24.00	8.00			16.00			
Maria De Anda	01/12/15	72.50	18.00	18.00	36.50	8.00	2.00	26.50				
Donna Riley	03/26/15	88.00	55.00	31.00	2.00		2.00					
* Jason Gordo	08/26/15	59.50		31.00	28.50		2.00				26.50	
Mike Lynch	05/14/13	60.00	46.00	14.00	0.00							
Jim DeMartini	03/16/14	48.00	15.00	33.00	0.00							
* Sam Sharpe		16.00	0.00	0.00	16.00							16.00
Michael O'Neal	05/12/15	169.00	56.00	64.00	49.00				16.00	17.00		16.00
Joan Clendenin	05/05/14	89.00	34.00	28.50	26.50						26.50	
Jeff Grover	01/08/15	79.00	31.00	30.00	18.00		2.00		16.00			

<sup>\*</sup> New Trustee 24 Hours required by completion of 2 years of service

### StanCERA Bylaws: Article 14.3 Educational Requirement

#### Note:

- 1.) SACRS Maximum Credit 16 (Per February 11, 1998 Board of Retirement Minutes).
- 2.) Ethics AB 1234 requires that all members of a legislative body who receive compensation, salary, or stipend to, or reimburse the expenses of, must attend AB 1234 training every two years. The term "legislative body includes commissions, committee, board, or other body of a local agency, whether permanent or temporary, decision making or advisory.
- 3.) Board of Retirement Continuing Education Record will be posted on StanCERA's Web site due to AB1519, Government Code Section 31522.8.
- 4.) Board terms listed on StanCERA's Web site.
- 5.) StanCERA's Web site: www.stancera.org



# Approved Trustee Education Opportunities for 2016

January Opal Public Funds Summit CALAPRS Adv. Princ. of Pension Mgmt NCPERS Legislative Conference	12-14 27-29 24-26	Scottsdale, AZ Los Angeles, CA Washington, DC
<b>February</b> CALAPRS Trustees Roundtable	5	Burbank, CA
March CALAPRS General Assembly	5-8	Indian Well , CA
<b>April</b> CRCEA Spring Conference	TBD	TBD
May SACRS Spring Conference NCPERS Trustee Education Seminar NCPERS Annual Conference	10-13 14-15 15-19	Costa Mesa, CA San Diego, CA San Diego, CA
<b>June</b> CALAPRS Trustees Round Table	10	San Jose, CA
<b>July</b> SACRS Public Pension Investment Mgmt		Berkeley, CA
<b>August</b> NCPERS Public Pension Funding Forum CALAPRS Adv. Princ. of Pension Mgmt	21-23 9-12	Berkeley, CA Pepperdine University
<b>September</b> CALAPRS Trustees Round Table OPAL Investment Trends Summit	30 28 - 30	Burbank, CA Santa Barbara, CA
October CRCEA Fall Conference	TBD	TBD
November SACRS – Fall Conference	8-11	Indian Wells, CA



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### January 20, 2016

Retirement Board Agenda Item

TO: Retirement Board

FROM: Alaine Taa, Adminstrative Assistant

I. SUBJECT: StanCERA Complaint Log

II. ITEM NUMBER: 5.f

III. ITEM TYPE: Information Only

IV. STAFF RECOMMENDATION: None

V. ANALYSIS:

There were twelve (12) retiree complaints logged between October 1 and December 30, 2015. A summary of these complaints follows:

Number of Caller

Complaints Status Nature of Complaints

11 Retiree Retired members called to inquire about why they had not received

their health benefit enrollment paperwork and inquired about their

health benefit changes.

1 Retiree Retired member upset that the United Way forms were sent to

retirees late, and it was too late to have deductions made for the

month of January.

The number of complaints this quarter increased by 9 (nine) complaints compared to the previous report period July 1, 2015 through September 30, 2015.

VI. RISK: None

VII. STRATEGIC PLAN: Strategic Objective IV: Refine StanCERA's business and policy practices in ways that enhance stakeholder awareness, the delivery of member services and the ability of the Organization to administer the System effectively and efficiently.

VIII. ADMINISTRATIVE BUDGET IMPACT: None

Alaine Taa, Adminstrative Assistant

Káthy Herman, Fiscal Services Manager



### Stanislaus County Employees' Retirement Association

832 12th Street, Ste. 600, Modesto, CA 95354 • PO Box 3150, Modesto, CA 95353 • www.stancera.org • 209-525-6393 • 209-558-4976 Fax

January 20, 2016 Retirement Board Agenda Item

TO: Retirement Board

FROM: Rick Santos, Executive Director

I. SUBJECT: Monthly Staff Report

II. ITEM NUMBER: 5g

III. ITEM TYPE: Information

IV. STAFF RECOMMENDATION: None

V. SUMMARY:

- a) Fiscal Services In December staff processed 18 active payrolls, totaling \$6,423,502 in member and employer contributions. 15 members terminated, 16 members withdrew funds, and 6 death benefits were also processed. The January retiree payroll was completed as scheduled, totaling \$8,771,772. The State Controllers report and required safety inspections were completed on schedule. In cooperation with the District Attorney and Stanislaus County, staff has started to research and address the security equipment and protocols in this building. The Board approved United Way campaign for retirees' was completed.
- b) Member & Employer Services During the month of December 2015, Member and Employer Services Staff processed 42 new hires (5 Safety and 37 General), 41 buy backs and 37 estimates. There were 27 individual counseling sessions and one group presentation at the New Employee Orientation.
- c) Investment Governance and Compliance In anticipation of additional capital being deployed to the private credit space; staff has been exploring other alternatives within the space that will allow the Organization to fully meet an enhanced capacity commitment.

d) RISK: None

VI. STRATEGIC PLAN: Strategic Objective IV: Refine StanCERA's business and policy practices in ways that enhance stakeholder awareness, the delivery of member services and the ability of the Organization to administer the System effectively and efficiently\*

VII. BUDGET IMPACT: None

Rick Santos, Executive Director

Kathy Herman, Fiscal Services Manager

Dawn Lea, Member and Employer Services Manager

Phase V

Contracting

Phase IV

Vendor Selection

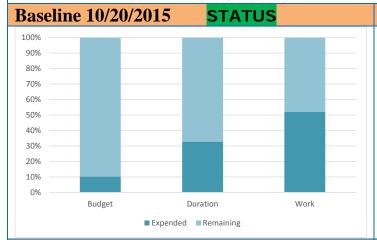


Phase I

# PAS REQUIREMENTS PROJECT STATUS UPDATE

**REPORT DATE:** 01/08/2016 **SPONSORS: Rick Santos** 6/20 11/24 3/29 **11/16** Phase V Board Phase III Complete Phase I Presentation Complete Complete **1**0/20 3/18/2016 6/15 Phase IV Phase II Project Kick-off Complete Comple 11/1/2015 12/1/2015 1/1/2016 2/1/2016 3/1/2016 4/1/2016 5/1/2016 6/1/2016 10/1/2015 6/30/2016 10/20/2015 - 11/16/2015 12/3/2015 - 3/18/2016 3/21/2016 - 3/29/2016 4/18 - 6/15 6/15 - 6/20

Phase II



### **Risks & Issues:**

Phase III

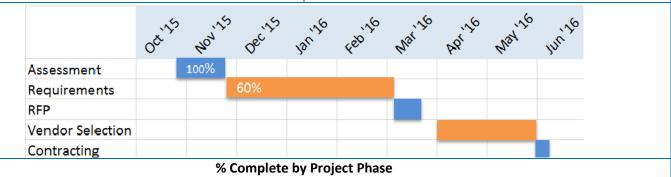
• None at this time

### **Accomplishments:**

- Conducted a total of 18 work sessions with SMEs to date
- Continued development of requirements document drafts based on work sessions and pre-populated templates
- Drafts of requirements documents began undergoing Linea internal review processes
- Continued working sample calculations through formulas for confirmation and modeling in requirements

### **Upcoming:**

- Continue remaining work sessions with SMEs
- Continue to develop requirements document drafts as work sessions are completed
- Continue Linea Solutions' review process of requirements documents
- Begin StanCERA review process of requirements documents





### Stanislaus County Employees' Retirement Association

832 12th Street, Ste. 600, Modesto, CA 95354 • PO Box 3150, Modesto, CA 95353 • www.stancera.org • 209-525-6393 • 209-558-4976 Fax

### January 20, 2016

Retirement Board Agenda Item

TO: Retirement Board

FROM: Rick Santos, Executive Director

- I. SUBJECT: SACRS (State Association of County Retirement Systems) Member Systems Operating Authority Proposal
- II. ITEM NUMBER: 6.b.
- III. ITEM TYPE: Discussion and Action
- IV. STAFF RECOMMENDATION: Support or oppose, in concept, SACRS Legislative Proposal regarding System operating authority

### V. EXECUTIVE SUMMARY

In October, staff asked the Board whether they would support a SACRS legislative proposal concerning District Status for 1937 Act County Employee Retirement Systems. At that time, very little was known about the concept and the StanCERA Board directed the voting delegate to abstain from the vote at the November SACRS business meeting. At that meeting, there were several Systems that felt the same way and as a result, the vote was postphoned until more information on the proposal could be funneled to System Trustees.

In December, the Chair of the SACRS Legislative Committee sent out a memo explaining the concept in more detail (Attachment 1). The Committee is now looking to see which Systems may support this idea in concept. Today's vote from the Board of Retirement is simply a vote of support or opposition for the concept itself. Formal approval of the proposed legislation will take place at the SACRS business meeting in May. Even though the Board may support the concept today, this in no way binds the Board in its final support or opposition of the proposal at the May business meeting. Staff will be asking the Board in April how to direct the spring delegate to vote on this issue.

VI. RISK: None

VII. STRATEGIC PLAN: Strategic Objective IV: Refine StanCERA's business and policy practices in ways that enhance stakeholder awareness, the delivery of member services and the ability of the Organization to administer the System effectively and efficiently

VIII. ADMINISTRATIVE BUDGET IMPACT: None

Rick Santos, Executive Director

Kathy Herman, Fiscal Services Manager



**Executive Staff** 

Richard Stensrud Chief Executive Officer

Vacant

Chief Investment Officer

Robert L. Gaumer General Counsel

Kathryn T. Regalia
Chief Operations Officer

John W. Gobel, Sr. Chief Benefits Officer

**TO**: SACRS Member Systems

**FROM**: Richard Stensrud

Chair

SACRS Legislative Committee

**DATE:** December 4, 2015

**SUBJECT:** Information Regarding Operating Authority Legislative Proposal

As you know, one of the proposals being presented for consideration as SACRS-sponsored legislation would amend the 1937 Act to allow the Board of Retirement of a SACRS system to change from the legacy operating authority model in the 1937 Act to one of the alternative operating authority models set forth in the 1937 Act. The discussion that follows is intended to provide SACRS members with information to assist you in determining whether your system wishes to support the proposal as SACRS-sponsored legislation.

In this regard, it is not only important that SACRS member systems understand what the proposed legislation will and will not do, but that member systems understand what they are being asked to do and what they are <u>not</u> being asked to do with respect to the legislative proposal.

Specifically, the individual SACRS member systems are <u>not</u> being asked if they want to change their current operating authority structure. Nor are the individual member systems being asked if changing their operating authority structure would be a good thing for them. Rather, the member systems are only being asked if they would support legislation that would allow a change in operating authority to be available to those systems that would like to consider it.

Such a choice would turn on whether a system determined that a change in their operating authority structure was imperative for them to properly execute their fiduciary responsibilities. It has been the long-standing tradition and practice within the SACRS community that systems not seek to substitute or impose their judgment in administrative or fiduciary matters on other systems. This can be seen in the common feature of allowing SACRS systems to 'opt-in' to legislative changes rather than to mandate such changes. As discussed more fully below, the legislative proposal regarding operating authority will

Operating Authority Legislative Proposal December 4, 2015 Page 2 of 5

be structured in this way. Accordingly, the SACRS Legislative Committee respectfully requests that member systems honor this practice by supporting the proposal in that it will provide individual systems with the ability to make operating authority changes if the system determines such changes are reasonable and necessary to carrying out the system's fiduciary duties.

### **What Does Operating Authority Mean?**

The term 'operating authority' encompasses the wide array of decisions that must be made in administering 1937 Act retirement systems. For current purposes, the key decisions include: (1) The appropriate staffing levels and staffing structure for the retirement system; (2) The appropriate job descriptions and duties for the necessary staff; and (3) The terms and conditions of employment of necessary staff, including appropriate levels and forms of compensation.

The 'default' operating authority structure for 1937 Act systems is established via various provisions in the 1937 Act, many of which literally date from 1937. At that time, and for a number of years after, the retirement systems were smaller (both with respect to the number of members and the assets under management); the benefit plans and operating rules were simpler; and the financial markets were not as complex, sophisticated and global in nature. When our systems were smaller, simpler operations within the County Treasurer and Tax Collector's office, it made sense to have decisions such as those noted above rest, in the end, with the Board of Supervisors, often implemented through salary resolutions and/or job classifications established under the County Civil Service structure.

Today, a 1937 Act retirement system is a very different entity. We have evolved and grown into autonomous organizations, serving thousands of members, managing billions of dollars in assets, and operating a highly specialized business that is unique relative to the rest of county government. In recognition of this, and the importance of the mission served by public retirement systems, in 1992 the voters approved an amendment to the California Constitution (Article XVI, Section 17), which placed both the fiduciary responsibility and the plenary authority for the administration of the retirement system on the governing Retirement Board.

Unfortunately, however, the legacy operating authority structure under the 1937 Act has largely failed to keep up with these developments, and as a result, beginning in 2003, 1937 Act systems began efforts to gain a more modernized operating authority structure.

### **How Has Operating Authority Evolved Under the 1937 Act?**

The first system to establish a different operating authority structure within the 1937 Act was the Orange County Employees' Retirement System (OCERS).\* Under the OCERS operating authority model, the management personnel of OCERS are deemed to be employees of OCERS, and the OCERS Board establishes the positions and terms of employment for those positions.

Operating Authority Legislative Proposal December 4, 2015 Page 3 of 5

In 2004, the San Bernardino County Employees' Retirement Association (SBCERA) obtained legislative approval to operate under the same operating authority model. Then, in 2006, SBCERA gained legislative approval of a new operating authority model, which expanded the category of SBCERA employees to those positions deemed to require specialized retirement system knowledge or expertise, the practical effect of which was to allow virtually all SBCERA personnel to be SBCERA employees.

Between 2006 and 2012 efforts were initiated by other 1937 Act systems to follow a similar track as OCERS and SBCERA, but for various political reasons, those efforts were not successful.

Then, in 2012, the Contra Costa County Employees' Retirement Association (CCCERA) entered into litigation with Contra Costa County regarding the scope of CCCERA's operating authority. As part of the settlement of that litigation, legislation was approved that designated CCCERA as the employer of all personnel at CCCERA.

This was followed in 2015 by legislation giving the Ventura County Employees' Retirement Association (VCERA) operating authority over a set of identified executive management positions.

In sum, under the 1937 Act, there are four models that re-allocate operating authority relative to the legacy 1937 Act structure, with the scope of that re-allocation increasing as follows: (1) The VCERA model; (2) The OCERS model; (3) The SBCERA model; and (4) The CCCERA model.

\*The Los Angeles County Employees' Retirement Association (LACERA) has had an operating authority agreement with Los Angeles County for many years, under which the county recognizes the authority of the LACERA Board over the administration of the retirement system and further agrees to take any ministerial action necessary to implement the decisions made by the LACERA Board. As a result of this agreement, LACERA has not needed to pursue a change in operating authority under the 1937 Act.

### What Would the Proposed Legislation Do?

As reflected by the discussion above, the efforts to-date to obtain modernized operating authority have been made on a system-by-system basis. Those efforts were largely driven by the recognition by those systems that they had reached a 'tipping point,' where their size and the scope of their responsibilities required that operational decisions needed to be addressed in a different manner.

This perspective gained more wide spread acceptance with the passage of PEPRA. The drafters of PEPRA recognized that the new duties imposed on 1937 Act systems by PEPRA increased the potential conflicts of interest between the systems and the dominant participating employer, the county. The drafters further recognized that the legacy operating authority model could be used to compromise the ability of a 1937 Act system to carry out its responsibilities. For that reason, earlier drafts of PEPRA

Operating Authority Legislative Proposal December 4, 2015 Page 4 of 5

authorized 1937 Act system Retirement Boards to shift to a different operating authority model. This change did not ultimately make it into the final version of PEPRA, but it continues to be viewed as a sensible change.

The proposal being considered as SACRS-sponsored legislation seeks to capitalize on the growing realization that change in operating authority is necessary, widely desired across the 1937 Act systems, and will produce beneficial results for all the stakeholders of these systems.

Specifically, the proposal under consideration would take the existing menu of operating authority options in the 1937 Act and allow the individual system Retirement Boards to decide if they want to shift from their current operating authority model to one of those other operating authority models. This decision would be at the discretion of each Retirement Board, with no approval or concurrence by the county required. At the same time, the Retirement Board is not required to change its operating authority model, and the Retirement Board is also free to coordinate/collaborate with the county in any such decision as it sees fit.

Central to the concept is flexibility rather than imposing a 'one size fits all' solution, and having the right fit determined by each system. If systems are happy where they are, they can stay there. If systems want to change, there are options for how far they go, again contingent on what works best for their circumstances.

Another element of the concept is that it is not a 'one and done' decision. A system can choose to start at the smaller end of the operating authority spectrum and then expand that authority if and when they believe it makes sense. This approach essentially allows a system to 'test and verify' that a change in operating authority works, and to be able to illustrate that as support for any subsequent increase in operating authority.

### What the Proposed Legislation Will Not Do:

When our systems began to move out of the Treasurer/Tax Collectors' office and become more autonomous, many people predicted that it would be disastrous. That did not happen then and, as evidenced by the experience in those systems that have already changed their operating authority model, will not happen now.

- The governance of the systems will remain the same, with all the stakeholders having the same degree of representation and oversight as they have now. If a Retirement Board acts irresponsibly, the stakeholders can change its members.
- Transparency and accountability will not change. The 1937 Act cap on administrative expenses will still operate. Meetings and records will still be public. Budgets will be public. Salaries will be public.
- Retirement Board members will continue to be liable as fiduciaries.

Operating Authority Legislative Proposal December 4, 2015 Page 5 of 5

- The legislation will be drafted to ensure that employees of the system will continue to be able to participate in the benefit plans (including the retirement system) offered by the county to county employees.
- The legislation will clearly note that nothing changes for those systems that have already obtained alternative operating authority. Those systems will not be required to take any new or additional action unless they wish to move to a different operating authority model.

### Can Systems Review the Proposed Language?

Specific language has not yet been crafted for the proposal. Before anything is put in writing the Legislative Committee wants to consult with the key players in the Capitol and gauge where they stand with respect to the overall concept and then adapt/adjust the proposal as necessary. The Legislative Committee prefers to do this via discussion of basic concepts rather than specific language, because, once specific language is presented, people tend to get locked in on the minutia. In addition, before turning to discussion of specifics, the Legislative Committee wants to frame the issues properly and have a strategy established for winning support and rebutting opposition.

The Legislative Committee understands that many people like to see specific legislative language before they vote to support something. That is nice when it is feasible, but the reality is that once a legislative proposal is launched, there is no assurance that it will remain unchanged. Sometimes it needs to be modified to accommodate concerns or gain support, sometimes it is modified over your opposition. Accordingly, at this juncture the Legislative Committee is requesting that member systems consider this legislative proposal as a 'concept' and determine whether they will support it 'in concept.' If and when the proposal moves forward, and it is put into print, member systems will promptly be provided with a copy of the legislation.

As discussed at the SACRS Conference, the Legislative Committee is only requesting a preliminary position from the systems at this time. Formal approval of the proposal as SACRS-sponsored legislation will take place at the May Conference Business Meeting. If, at that point, the member systems do not believe that the legislation is reasonably consistent with the way it has been previously described, the systems can choose to withdraw SACRS sponsorship. If, at any point, the legislation is amended to negatively impact SACRS members, the legislation will be withdrawn.

The Legislative Committee hopes this information is helpful and thanks the member systems for your consideration.

Respectfully,

Richard Stensrud Chair SACRS Legislative Committee From: Sulema Peterson <>

To:

**Date:** 12/9/2015 1:26 PM

**Subject:** SACRS Legislative video and information regarding the operating authority proposal

Attachments: Memorandum SACRS Member SystemsOperating Authority Proposal 12-4-2015 (00000003).pdf; Modified copy of

Memorandum SACRS Member SystemsOperating Authority Proposal 12-4-2015 (00000003).pdf

Good afternoon SACRS Administrators, Trustees and Staff, (this message is being sent on behalf of Jim Lites, SACRS Strategic Facilitator and Consultant)

As you will recall, at the November SACRS Business Meeting, the member systems voted to defer taking formal action on potential SACRS-sponsored legislation until the May SACRS Business Meeting. As explained by SACRS Legislative Committee Chair Richard Stensrud, this action was requested because it appeared that several systems had not had an opportunity to consider the legislative proposals and/or had not taken a position on the legislative proposals. Richard noted that one proposal in particular - involving system operating authority - had important ramifications and that member systems could benefit from having more information regarding the proposal.

To that end, attached is information for your consideration regarding the operating authority proposal. Specifically, you will find a memorandum from Richard and the SACRS Legislative Committee, as well as the 'talking points' piece that was originally included in the Business Meeting packet. In addition, via the following link, you can view the extended discussion about this proposal that took place at the Legislative Session on Thursday afternoon of the conference. Hopefully, through the combination of these materials, you will be able to determine your position on whether this proposal should move forward as SACRS sponsored legislation.

To download the video file:

- Click on link below
- \* When prompted, select to sign in or continue without signing in.
- \* Due to the size of the file, Dropbox allows you to preview of 15 minutes of the video. Please download the full 1 hour and 20 min video file. It takes approx. 4 mins to download.
- \* The video does not give a prompt to download, its simply begins playing.
- \* Dropbox has a very discreet message at the top of the video "download to watch the entire video". Viewers are required to click on the download button.

SACRS Legislative Video Fall Conference 2016 Operating Authority Proposal<a href="https://www.dropbox.com/s/uaw1thq4ifmidr5/SACRS%20Legislative%20Meeting.wmv?dl=0">Proposal<a href="https://www.dropbox.com/s/uaw1thq4ifmidr5/SACRS%20Meeting.wmv?dl=0">Proposal<a href="https://www.dropbox.com/s/uaw1thq4ifmidr5/SACRS%20Meeting.wmv?dl=0">Proposal<a href="https://www.

A few important things to keep in mind in this regard:

- \* First, at this point, the Legislative Committee is only asking for a preliminary indication of your position on the proposal. This is required so that the Committee knows whether it should be moving forward on the proposal when the legislative session begins in January. As noted above, a formal vote on whether it retains SACRS sponsorship will take place in May.
- \* Second, under Roberts Rules, abstaining on the proposal would essentially be the same as a 'no' vote. This is because in order for the proposal to gain approval it must obtain a majority of the voters present and an abstaining voter is considered to be 'present.' So, for example, if there were 10 support votes, 2 not support votes and 8 abstentions, the measure would fail because it had not obtained a majority of the votes present. Accordingly, I would encourage you to review the discussion in Richard's memo regarding what systems are being asked to decide, and what systems are not being asked to decide.
- \* Finally, I would respectfully request that systems exercise discretion regarding how broadly the information regarding this proposal is shared. In making this request, I understand that discussion of the proposal is necessary and important. At the same time, please keep in mind that the successful exercise of legislative strategy often requires being able to develop messages and build discussions, which can be complicated if one has to go on the 'defense' before getting a chance to play 'offense.'

If you experience difficulty downloading the video file, please contact Sulema at sulema@sacrs.org<mailto:sulema@sacrs.org> or 916-441-1850 for assistance.

Thank you, Jim Lites

Sulema H. Peterson SACRS Administrator 1415 L Street, Suite 1000



### STANISLAUS COUNTY EMPLOYEES' RETIREMENT ASSOCIATION 832 12<sup>th</sup> Street, Suite 600 Modesto, CA 95354 P.O. Box 3150 Modesto, CA 95353-3150

Phone (209) 525-6393 Fax (209) 558-4976 www.stancera.org e-mail: retirement@stancera.org

### January 20, 2016, Retirement Board meeting

TO: Retirement Board

FROM: Rick Santos, Executive Director

I. SUBJECT: Executive Director Goals for 2016

II. ITEM NUMBER: 6.c.

III. ITEM TYPE: Discussion and Action

IV. STAFF RECOMMENDATION: Accept the 2016 Executive Director Goals as presented

- V. ANALYSIS: Attachment 1 contains the Executive Director Goals for 2016. The goals are broken down into 2 categories:
  - a. General items that are either recurring in nature or tasks that are unique to 2016 but are not linked to the Strategic Plan
  - b. Tasks that are explicitly linked to the Strategic Plan

### Strategic Plan

Completion of the goals for 2016 will signal an end to the 2014-2016 Strategic Plan. There are 3 items from the 2014-2016 Strategic Plan not yet completed that staff is recommending either completing at a later date or exploring in more depth at the next Strategic Planning session:

1. Contracting with specialists in the area of asset liability management in regard to the development of a glide path plan that would suggest triggers for removing equity risk from the plan

This item should be revisited during the next Strategic Planning session (2017- 2019) with the Board and explored more fully. Additionally, this is not a task that staff recommends handing off in its entirety to the investment consultant. The ability for StanCERA to be a major player in this concept and its administration is an opportunity that should not be undervalued.

2. Establishing policy and standards for the creation and maintenance of educational material and the development of efficient means to push this material out to members

Recommend delaying this item until new technological capabilities are fully understood

3. Development of various technology enhancements related to administration and member services

Task is best associated with the ITS project and is naturally a part of its scope

Those tasks slated to be completed this year are tied to those strategic goals pertaining to the evaluation and disposition of StanCERA's active managers, organizational culture and the efficient delivery of administerial and member services.

Retirement Board – January 20, 2016 Executive Director Goals for 2016 Page 2

### General Items

Some of the tasks on this list are new and unique for 2016. Those items include:

- Development of the 2017-2019 Strategic Plan
- Exploring the idea of a hybrid defined benefit/defined contribution plan
- Facilitation of the ITS project
- Facilitation of the data clean up project
- RFP for actuarial services
- VI. RISK: None
- VII. STRATEGIC PLAN: Strategic Objective IV: Refine StanCERA's business and policy practices in ways that enhance stakeholder awareness, the delivery of member services and the ability of the Organization to administer the System effectively and efficiently
- VIII. BUDGET IMPACT: To be determined in the 2016-2017 Administrative Budget

Rick Santos, Executive Director

Kathy Herman, Fiscal Services Manager

Dawn Lea, Member and Employer Services Manager



#### General Items

- Continued communication, outreach and transparency with major stakeholders such as County, County BOS, Local Governments, Special Districts and Employee Groups
- 2. Facilitate completion of the transition to alternative investments
- 3. 95% completion of clean-up of member data
- 4. Complete Trustee Election
- 5. Continued monitoring of StanCERA lawsuits
- 6. Director Professional Development
- 7. Facilitate RFP for actuarial consultant
- 8. Oversee Information Technology Solutions Project
- 9. Gauge plan sponsor interest in hybrid defined benefit/contribution plan
- 10. Oversee and complete day to day administrative functions
- 11. Complete cost benefit analysis of Investment Officer position
- 12. Facilitate StanCERA 2017-2019 Strategic Plan
- 13. Finalize Record Retention Policy
- 14. Development of policy related to the use and legal implications of electronic signatures

### Items Explicitly Tied to the 2014-2016 Strategic Plan

Strategic Objective #1

Invest StanCERA assets in such a way that efficiently maximizes the ability to meet current and future benefit obligations while balancing the need for contribution stability and sustainability

2016 Action Plan with Deliverables

- I. Communicate with plan sponsors
  - a. Meet with plan sponsors annually to discuss any issues that may affect StanCERA's future projected cash flows – ongoing
  - b. Meet with plan sponsors at least annually to determine the sponsor's willingness and capacity to take pension risk *ongoing*

Strategic Objective # 2

Develop efficient and effective processes for the evaluation, monitoring and disposition of StanCERA's active managers

2016 Action Plan with Deliverables

- I. Develop clear and concise processes and policies dedicated to the continual assessment, monitoring and disposition of StanCERA's active managers
  - a. Develop:



- i. reasonable criteria that defines satisfactory performance with an eye towards asset liability and total risk management
- ii. processes and remedies for active managers when performance is deemed to be unsatisfactory

### Strategic Objective # 3

Continue to foster an organizational culture that values and promotes team work, education, awareness, accountability and achievement.

2016 Action Plan with Deliverables

- I. Optimize StanCERA's organizational resources
  - a. Complete review and amendment of process manuals
- II. Ensure organizational quality and performance through continuous improvement
  - a. Establish a formal peer-review process for internal and external documents and external communications

### Strategic Objective # 4

Refine StanCERA's business and policy practices in ways that enhance stakeholder awareness, the delivery of member services and the ability of the Organization to administer the System effectively and efficiently.

2016 Action Plan with Deliverables

- I. Formalize a process to educate stakeholders
  - a. Determine areas of educational need
    - 1. Members
    - 2. Plan Sponsors/Employers
    - 3. Tax Payers/Members of the public
  - b. Review and amend the media policy
- II. Expand technology and training to ensure continuity of operations during a natural disaster or a period of major outage
  - a. Develop a formal schedule and process for disaster drills of Technology systems
  - b. Determine optimal level of redundancy for continuity of operations

# Stanislaus County Employees' Retirement System



01/20/16 Item 6.d

# 2015 Preliminary Valuation Results

January 14, 2016

Graham A. Schmidt, ASA, EA, FCA

# **Topics for Discussion**



- Preliminary 2015 Valuation Results Prior to Assumption Changes
  - Executive Summary and Highlights
  - Changes Since Last Valuation
- Historical Review
- Potential Impact of Assumption Changes
- Next Steps
- Appendix



# **Executive Summary Prior to Assumption Changes**



# Stanislaus County Employees' Retirement Association Summary of Key Valuation Results Prior to Any Assumption Changes (in millions)

Valuation Date Fiscal Year End	Jun	e 30, 2014 2016	Ju	ne 30, 2015 2017
Actuarial Liability	\$	2,026.4	\$	2,121.8
Actuarial Value of Assets*		1,644.1		1,763.6
Unfunded Actuarial Liability (Actuarial Value)	\$	382.3	\$	358.2
Funding Ratio (Actuarial Value)		81.1%		83.1%
Market Value of Assets	-	1,773.6	(	1,812.6
Unfunded Liability (Market Value)	\$	252.8	\$	309.2
Funding Ratio (Market Value)*		87.5%		85.4%
Net Employer Contribution Rate		23.35%		22.02%

<sup>\*</sup> Net of non-valuation reserves



# Highlights Prior to Assumption Changes



- Investment return on the market value of assets was 3.9%, net of investment expenses, compared to the 7.75% assumed rate of return.
- The actuarial return on assets was 9.1%, which resulted in a \$21 million gain and decreased the contribution rate by 0.61% of pay.
  There are approximately \$49 million in deferred asset gains not yet recognized in the smoothed asset value.
- The net impact of all changes decreased the contribution rate by about 1.3% of pay, including salary changes, demographic changes, and asset gains.
- The amortization period for the UAL has dropped to 21 years. The Plan will continue to experience "negative amortization" (i.e. the payment on the unfunded is less than the interest on the UAL) until the amortization period drops below 18 years.
  - Negative amortization threshold will depend on economic assumptions



# Changes Since Last Valuation Prior to Assumption Changes



# Stanislaus County Employees' Retirement Association Employer Contribution Reconciliation Prior to Any Assumption Changes

(in millions)

	Total	Normal Cost	Amortization	Admin Exp
FYE 2016 Net Employer Contribution Rate	23.35%	11.13%	11.33%	0.89%
Change Due to Asset Gain	-0.61%	0.00%	-0.61%	0.00%
Change Due to Contribution Shortfall / Phase-In	-0.05%	0.00%	-0.05%	0.00%
Change Due to Demographic Changes	-0.30%	-0.19%	-0.11%	0.00%
Change Due to Effect of Payroll on Amortization Change Due to Methods / Assumptions	-0.37%	0.00%	-0.32%	-0.05%
FYE 2017 Net Employer Contribution Rate	22.02%	10.94%	10.24%	0.84%



## Historical Review Prior to Assumption Changes



#### **Assets and Liabilities**

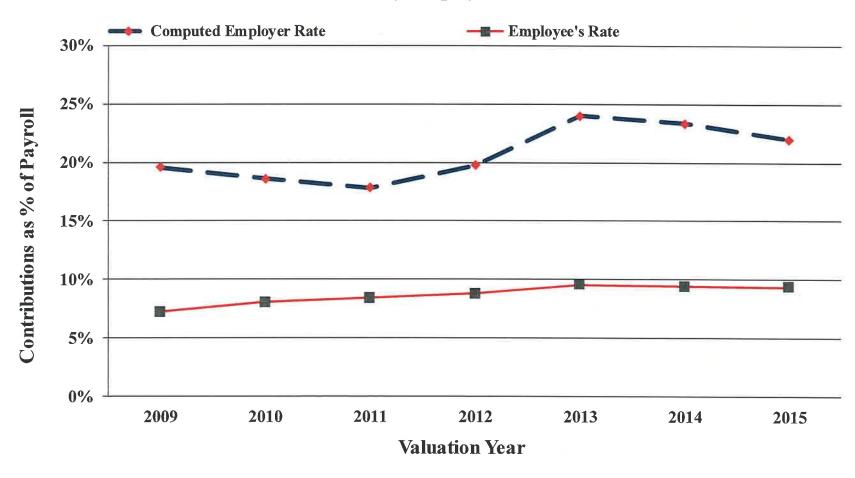




## Historical Review Prior to Assumption Changes



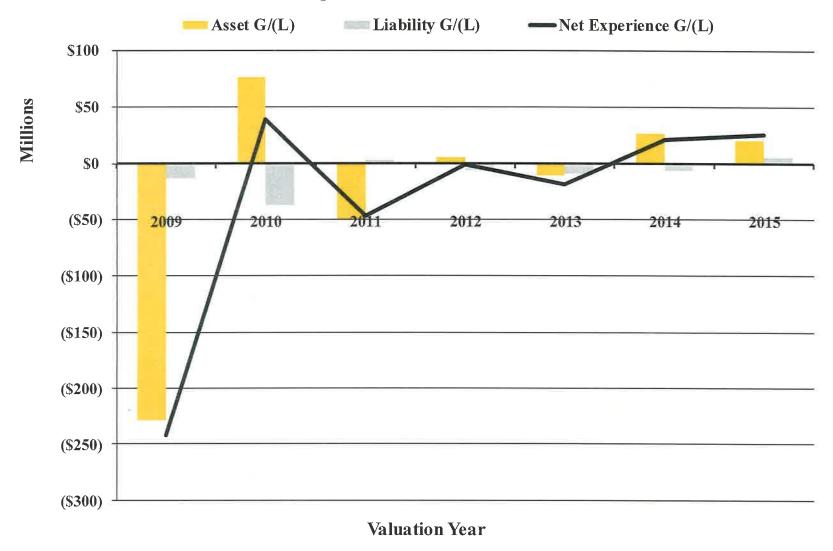
#### Stanislaus County Employees' Retirement Association







#### **Experience Gains and Losses**





## Impact of Assumption Changes



## Stanislaus County Employees' Retirement Association FYE 2017 Contributions

	Gross Normal Cost %	Administrative Expense %	Amortization of UAL %	Gross Contribution
Baseline Prior to Any Assumption Changes	20.29%	0.84%	10.24%	31.37%
Demographic Assumption Changes Only	20.08%	0.84%	13.66%	34.58%
Difference from FYE 2017 Baseline	-0.21%	0.00%	3.42%	3.21%
Demographic and Economic Assumption Changes Option 1 Investment Return: 7.50%, Wage Inflation: 3.25%	20.74%	0.84%	15.37%	36.95%
CPI: 3.00%, COLA: 2.70%  Difference from FYE 2017 Baseline	0.45%	0.00%	5.13%	5.58%
Difference from FYE 2017 Demo Assumption Changes Only	0.66%	0.00%	1.71%	2.37%
Demographic and Economic Assumption Changes Option 2 Investment Return: 7.50%, Wage Inflation: 3.00% CPI: 2.75%, COLA: 2.60%	19.96%	0.84%	14.42%	35.22%
Difference from FYE 2017 Baseline	-0.33%	0.00%	4.18%	3.85%
Difference from FYE 2017 Demo Assumption Changes Only	-0.12%	0.00%	0.76%	0.64%

The impact of any assumption changes on employee contributions will be determined when the final assumptions are adopted. The increase in the contribution rate will not fall solely on the employees but will be split between them.



## **Next Steps**



- Finalize Experience Study and Adopt Assumptions
  - New demographic assumptions have been adopted.
  - Economic assumption scenarios shown appear reasonable based on new asset allocations under consideration. Finalize once new asset allocation adopted.
  - Review administrative expense assumption with Staff.
- Finalize Actuarial Valuation results
  - Results shown are preliminary. Still proceeding with peer review.
- Adopt June 30, 2015 Actuarial Valuation and FY16-17 Contribution Rates



## Appendix: Prior to Any Assumption Changes



#### Stanislaus County Employees' Retirement Association Membership Total Prior to Any Assumption Changes

	$\mathbf{J}$	une 30, 2014	J	une 30, 2015	% Change
Actives		3,992		4,144	3.81%
Current Inactives		962		979	1.77%
In-Pay Members		3,385		3,539	4.55%
Total Members		8,339		8,662	3.87%
Active Member Payroll (FYE 2015/2016)	\$	235,092,377	\$	251,046,685	6.79%
Average Pay per Active	\$	58,891	\$	60,581	2.87%



## Appendix: Prior to Any Assumption Changes



# Stanislaus County Employees' Retirement Association Contributions Prior to Any Assumption Changes

Item	FYE 2016	FYE 2017	Change
Gross Normal Cost %	20.52%	20.29%	-0.23%
Employee Contributions	9.39%	9.35%	-0.04%
Employer Normal Cost %	11.13%	10.94%	-0.19%
Administrative Expense %	0.89%	0.84%	-0.05%
Amortization of UAL %	11.33%	10.24%	-1.09%
Net Employer Contribution Rate:	23.35%	22.02%	-1.33%



## Required Disclosures



The purpose of this presentation is to present the annual actuarial valuation of the Stanislaus County Employees' Retirement Association. This presentation is for the use of the Stanislaus County Employees' Retirement Board in accordance with applicable law.

In preparing our presentation, we relied on information (some oral and some written) supplied by the Stanislaus County Employees' Association. 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.

We hereby certify that, to the best of our knowledge, this presentation and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices that are consistent with the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board. Furthermore, as a credentialed actuary, I meet the Qualification Standards of the American Academy of Actuaries to render the opinion contained in this presentation. This presentation does not address any contractual or legal issues. I am not an attorney, and our firm does not provide any legal services or advice.

This presentation was prepared exclusively for the Stanislaus County Employees' Retirement Board for the purpose described herein. This presentation is not intended to benefit any third party, and Cheiron assumes no duty or liability to any such party.

The actuarial assumptions, data and methods are those that will be used in the preparation of the actuarial valuation report as of June 30, 2015.

The assumptions reflect our understanding of the likely future experience of the Plans, and the assumptions as a whole represent our best estimate for the future experience of the Plans. The results of this presentation are dependent upon future experience conforming to these assumptions. To the extent that future experience deviates from the actuarial assumptions, the true cost of the plan could vary from our results.

CHEIRON #

Graham A. Schmidt ASA, FCA Consulting Actuary







**JANUARY 20, 2016** 

Item 8.

Meeting Materials for

**Stanislaus County Employees' Retirement Association** 

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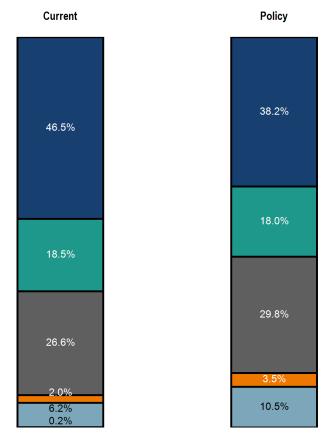
November Executive Summary	TABI
Enterprise Risk Tolerance Assessment	TAB II
Asset Allocation Study	TAB III

#### Total Fund Executive Summary (Net of Fees) - Preliminary

#### Period Ending: November 30, 2015

	Market Value	% of Portfolio	1 Mo	YTD
Total Fund	1,785,786,133	100.0	-0.1	8.0
Policy Index			-0.1	1.5
US Equity	830,817,121	46.5	0.7	1.7
US Equity Blended			0.9	2.4
Russell 3000			0.6	2.6
Mellon S&P 500	74,719,105	4.2	0.3	3.0
S&P 500			0.3	3.0
BlackRock Russell 1000 Growth	114,988,712	6.4	0.3	7.2
Russell 1000 Growth			0.3	7.2
Jackson Square	166,932,363	9.3	-0.4	4.7
Russell 1000 Growth			0.3	7.2
BlackRock Russell 1000 Value	122,360,588	6.9	0.4	-1.5
Russell 1000 Value			0.4	-1.7
Dodge & Cox-Equity	181,048,987	10.1	-0.4	-1.4
Russell 1000 Value			0.4	-1.7
Legato Capital	86,580,864	4.8	5.1	3.2
Russell 2000 Growth			3.7	3.6
Capital Prospects	84,186,502	4.7	2.0	-2.3
Russell 2000 Value			2.8	-2.3
International Equity	330,807,624	18.5	-2.0	-2.4
MSCI ACWI ex USA Gross			-2.1	-3.5
LSV Asset Mgt	162,824,907	9.1	-2.6	-3.4
MSCI ACWI ex USA Gross			-2.1	-3.5
Pyramis	167,982,717	9.4	-1.4	-1.1
MSCI ACWI ex USA Gross			-2.1	-3.5
US Fixed Income	474,687,323	26.6	-0.1	0.9
Barclays Aggregate			-0.3	0.9
Dodge & Cox-Fixed	363,559,101	20.4	-0.1	0.8
Barclays Aggregate			-0.3	0.9
PIMCO	111,128,223	6.2	-0.2	1.1
Barclays Aggregate			-0.3	0.9

	Current	%	Policy	%
Domestic Equity	\$830,817,121	46.5%	\$682,170,303	38.2%
International Equity	\$330,807,624	18.5%	\$321,441,504	18.0%
Domestic Fixed Income	\$474,687,323	26.6%	\$532,164,268	29.8%
Real Estate	\$36,128,224	2.0%	\$62,502,515	3.5%
Alternatives	\$110,549,198	6.2%	\$187,507,544	10.5%
Cash and Equivalents	\$2,796,642	0.2%		
Total	\$1,785,786,133	100.0%	\$1,785,786,133	100.0%



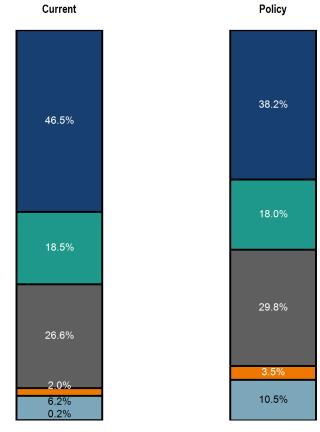
Policy Index: 14.4% Russell 1000 Value, 11.3% Russell 1000 Growth, 4.8% S&P 500, 4.0% Russell 2000 Value, 3.7% Russell 2000 Growth, 18.0% MSCI ACWI ex USA, 29.8% Barclays Aggregate, 3.5% DJ US Select RESI, 7.5% 9% Annual, 3% CPI + 4%. US Equity Blended: 80% Russell 1000, 20% Russell 2000. All data prior to 6/30/2015 provided by the previous consultant. 12th Street Building removed from investable assets 3Q 2015. Invesco residual balance of \$133.03 included in Total Fund market value. Raven Opportunity III initial capital called 7/6/2015. Prime Property Fund capital called 9/30/2015. All data is preliminary.



### Executive Summary (Net of Fees) - Preliminary

	Market Value	% of Portfolio	1 Mo	YTD
Real Estate	36,128,224	2.0	0.0	5.9
DJ US Select RESI			-0.5	2.3
Prime Property Fund	15,000,002	0.8	0.0	
NCREIF-ODCE			0.0	
American Strategic Value Realty	8,607,734	0.5	0.0	13.4
NCREIF Property Index			0.0	10.1
BlackRock US Real Estate	3,254,378	0.2	-0.5	2.2
DJ US Select RESI TR USD			-0.5	2.3
Greenfield Gap	9,265,978	0.5		
Direct Lending	101,725,927	5.7		
Medley Capital	31,808,156	1.8		
Raven Capital	26,960,872	1.5		
Raven Opportunity III	2,229,239	0.1		
White Oak Pinnacle	40,727,660	2.3		
Infrastructure	8,823,271	0.5		
MS Infrastructure Partners II	8,823,271	0.5		
Cash Account	2,796,642	0.2	0.0	

	Current	%	Policy	%
Domestic Equity	\$830,817,121	46.5%	\$682,170,303	38.2%
International Equity	\$330,807,624	18.5%	\$321,441,504	18.0%
Domestic Fixed Income	\$474,687,323	26.6%	\$532,164,268	29.8%
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Alternatives	\$110,549,198	6.2%	\$187,507,544	10.5%
Cash and Equivalents	\$2,796,642	0.2%	-	
Total	\$1,785,786,133	100.0%	\$1,785,786,133	100.0%



Policy Index: 14.4% Russell 1000 Value, 11.3% Russell 1000 Growth, 4.8% S&P 500, 4.0% Russell 2000 Value, 3.7% Russell 2000 Growth, 18.0% MSCI ACWI ex USA, 29.8% Barclays Aggregate, 3.5% DJ US Select RESI, 7.5% 9% Annual, 3% CPI + 4%. US Equity Blended: 80% Russell 1000, 20% Russell 2000. All data prior to 6/30/2015 provided by the previous consultant. 12th Street Building removed from investable assets 3Q 2015. Invesco residual balance of \$133.03 included in Total Fund market value. Raven Opportunity III initial capital called 7/6/2015. Prime Property Fund capital called 9/30/2015. All data is preliminary.





PERSPECTIVES
THAT DRIVE
ENTERPRISE
SUCCESS



**JANUARY 2016** 

Item 8.c

Enterprise Risk Tolerance Assessment for

**Stanislaus County Employees' Retirement Association** 

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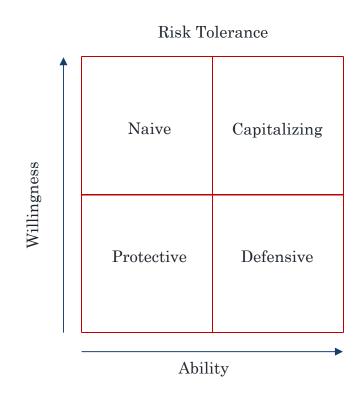
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# Introduction



## Enterprise risk tolerance in context

- Properly assessing Enterprise Risk Tolerance has important and practical implications for investment strategy development.
- Identifying the appropriate risk tolerance for a plan involves viewing risk in terms of the Plan's willingness and ability to bear risk.
- The ability to bear risk depends on financial circumstances, while the willingness to bear risk is generally based on investor's attitudes and beliefs about investments.
- Although the StanCERA Board's duty is clearly to the beneficiaries of the Association, assessing the County's financial situation and ability to make contributions to the Pension is one component in evaluating the Plan's ability to take on risk.
- In today's session, we review StanCERA's willingness and ability to incur investment risk, based on our findings from recent Trustee and Staff interviews, as well as an assessment of the financial health of the Plan sponsor.





# Interview findings



## Mission and objectives

#### Mission

- Complete consistency
  - Ensuring payment of promised benefits

#### Objectives

- High consistency
  - Maximize return given acceptable risk threshold
- Other considerations
  - Meet assumed rate or return
  - Balance risk and diversify portfolio
  - Reduce chance of large losses
  - Establish sound rationale when adding new strategies
  - Invest responsibly (SRI)



## Time horizon

#### Overall Plan

- Low consistency
  - 3-5 years
  - 10 years
  - > 20 years
  - 50 years

#### Strategy evaluation

- Low consistency
  - 3-5 years
  - 5 years
  - > 5 years

Longer-term time horizon implies an increased risk tolerance

## Investment philosophy

#### Simple vs. complex

- Low consistency
  - Investment philosophies are complex and a \$1.8 billion portfolio warrants more complexity
  - Preference for simplicity with acceptance of complexity if warranted
  - Simple and direct

#### Active vs. passive

- High consistency
  - There are roles that both active and passive management play within a portfolio
- Sample responses
  - Passive for fixed income and large cap domestic equity, active for others.
  - Core/satellite strategy is better suited.
  - Passive for large cap domestic equity, active for "speed boat" type investments.
  - Active management can do positive things but must be aware of the fees being paid.

#### Public vs. private

- High consistency
  - General consensus that there is a role for both
- Sample responses
  - Private equity has a niche right now. Returns are good, risk is reasonable.
  - Need both. Find ways to replace equities if we expect to meet the return target.
  - Given the time horizon, amount of money, and return target, we have to have some private money.
  - Public more transparent, private less so but higher potential for returns.

#### Liquid vs. illiquid

- High consistency
  - Illiquidity is fine, as long as operational needs of the Plan are met.
- Sample responses
  - No problem with longer duration as long as there is enough current income to provide for benefit payments.
  - Probably 25% could be illiquid with a variety of strategies.
  - Illiquid acceptable for long-term investments.

Thought leader vs. safety in numbers

- High consistency
  - In favor of thought leader
- Sample responses
  - Start watching everyone else and pretty soon you don't have your own plan.
  - Peer risk is not a concern.
  - The Plan needs to look different.

## Investment risk

#### Definition

No broad definitional themes identified

#### Volatility

Not generally considered in investment decision-making

#### Drawdown

Occasionally mentioned in investment decision-making

#### Tracking Error

Not generally considered in investment decision-making

#### Recommendation

Education session on risk management

## Organizational risk

#### "Key person"

- Some response dispersion
- Generally two schools of thought
  - Staff is light and personnel is important; could be issue of any were to leave.
  - No real key man risk because the organization consists of board members, staff, consultant, counsel, actuaries, etc.

#### Board turnover

- General consistency
  - Most see this as a low risk to the Plan

## Environmental risk

#### Peer risk

- High consistency
  - Not a concern

#### Headline risk

- General consistency
  - Headline risk can be a bit of a concern if there is a miscommunication
- Sample responses
  - Concerned if information is inaccurate.
  - Have to be proactive in communicating what we do, why we do it, and who we do it for.
  - Having a press is a good thing if truly objective.

## Plan sponsor review



## Credit ratings

- Moody's assigned the County an issuer rating in the upper-medium grade category with a stable outlook since Aug 2012.
- S&P's assigned the County an issuer rating in the high quality category with a stable outlook since July 2012.

	Moody's	Standard & Poor's
Issuer Credit Rating	A1	AA-

#### Commentary from Moody's:

#### Strengths

- Strong General Fund financial position.
- Manageable lease burden.
- Relatively stable operations despite local and regional economic pressures.

#### Challenges

- Near-term budgets are balanced with use of reserves.
- Tax base decline has been substantial and nearterm recovery is likely to be limited
- County continues to manage dynamic of increased demands for services and decreased/limited resources with which to fund services.

#### **Issuer Ratings Relative to Other Counties**

	Moody's	S&P	Pension Fund Ratio	Outstanding POBs (000s)	County Revenue (000s)	POB to Revenue	Revenue as of FY
Alameda	Aa1	AA+	75.9%	\$318,892	\$2,579,836	12.36%	6/30/2014
Contra Costa	Aa2	AAA	76.4%	\$258,500	\$2,548,523	10.14%	6/30/2014
Fresno	-	A+	80.7%	\$527,056	\$1,341,194	39.3%	6/30/2014
Imperial	A1	AA-	88.9%	\$51,160	\$358,774	14.3%	6/30/2013
Merced	Aa3	-	55.6%	\$23,935	417,863	5.7%	6/30/2014
Sacramento	A2	А	86.8%	\$990,308	\$2,735,069	36.21%	6/30/2014
San Joaquin	Aa2	-	64.2%	-	\$1,213,919	-	6/30/2014
Santa Barbara	A1	AA+	80.5%	-	\$844,991	-	6/30/2015
Sonoma	Aa1	AA+	86.3%	\$459,165	\$929,176	49.4%	6/30/2014
Stanislaus	A1	AA-	81.1%	-	\$812,652	-	6/30/2014

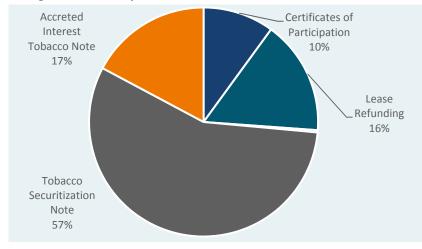
Sources: Stanislaus County Comprehensive Annual Financial Report FY 2014, Moody's, Standard & Poor's Note: Stanislaus County's Pension Obligation Bond was paid off between June 30, 2013 and June 30, 2014



## Long-term obligations

- The county's legal General Obligation bonded debt limit is 1.25% of the value of taxable property (taxable property is also commonly referred to as assessed value).
- The county's assessed value is \$35.6 billion and the legal debt limit about \$445 million.
- Total long-term debt obligations for the county is valued at \$158.9 million, well under the legal limit.
- Pension Obligation Bonds were paid off in full during the 2014 fiscal year.

#### Long-term debt components



	Value (\$)	Allocation %
Certificates of Participation	\$15,930,000	10.0%
Lease Refunding	\$25,605,970	16.1%
Plan Issuance Premium	\$502,193	0.3%
Tobacco Securitization Note	\$89,503,611	56.3%
Accreted Interest Tobacco Note	\$27,339,863	17.2%
Total	\$158,881,637	100%

Source: Stanislaus County Comprehensive Annual Financial Report FY 2014

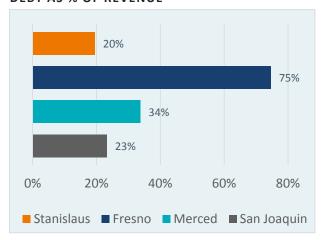


## Debt ratios

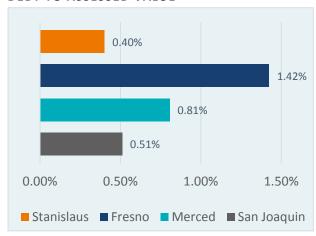
When comparing Stanislaus County's debt ratios against 3 counties in the same region of comparable size (Fresno, Merced, and San Joaquin):

- Total County debt is 20% of total revenues, which is lowest amongst the group.
- Total debt is 0.40% of the County's assessed value (taxable property), well below the legal limit of 1.25% and the lowest amongst the group.
- Debt payments to the General Fund reserves is 9.0%, which is a higher ratio relative to Merced and San Joaquin, but lower than Fresno.

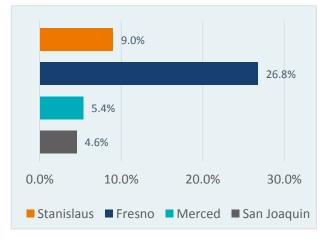
#### **DEBT AS % OF REVENUE**



#### **DEBT TO ASSESSED VALUE**



#### **DEBT PAYMENTS TO GENERAL FUND**



1. Source: Stanislaus County Comprehensive Annual Financial Report FY 2014



## County revenues

- County revenues have been flat since 2010 and are around their 10 year average.
- Property Tax Revenue is a stable source of income and has averaged about 12% of the County's revenues over the last 10 years.
- Non-Tax revenue is a less stable income source that includes grants, intra-governmental contributions, and investment earnings.
- Non-Tax revenues have averaged 59% of all revenues over the last 10 years and has been increasing since 2004.

#### **TOTAL COUNTY REVENUES**



#### PROPERTY TAX REVENUE TO TOTAL REVENUE



#### **NON-TAX REVENUE TO TOTAL REVENUE**



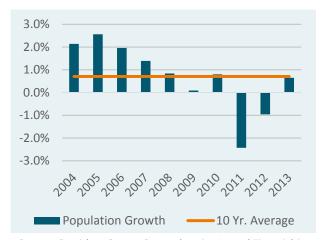
1. Source: Stanislaus County Comprehensive Annual Financial Reports FY 2005 through FY 2014



## Economic & demographic statistics

- Population growth has fluctuated over the last 10 years, averaging about 0.7%. The county experienced negative population growth in 2011 and 2012.
- Personal income per capital has been trending upwards and is currently noticeably above the County's 10 year average.
- The unemployment rate has improved from the high of 2010 and is currently near the County's 10 year average.

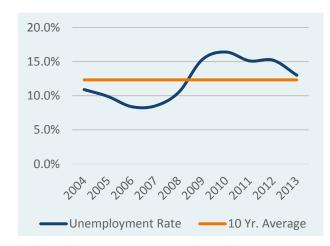
#### **POPULATION GROWTH**



#### PERSONAL INCOME PER CAPITA



#### **UNEMPLOYMENT RATE**

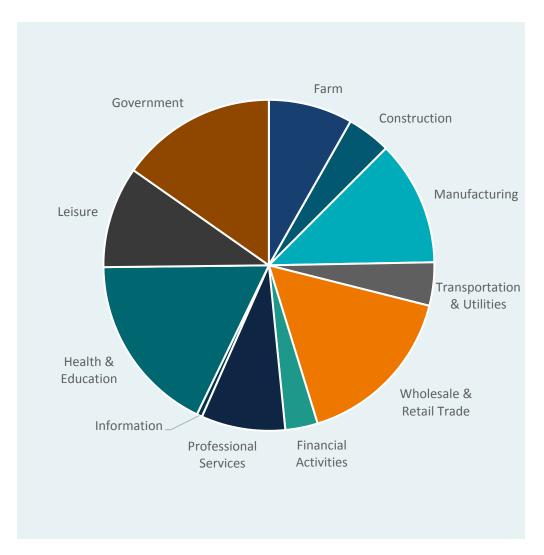


- 1. Source: Stanislaus County Comprehensive Annual Financial Reports FY 2013 and FY 2014
- 2. Personal income per capita not reported for FY 2013



## Employment by industry

- Stanislaus County has a diverse employment base
- The largest industry, Health and Education, accounts for 17.1% of county-wide employment



Source: Stanislaus County Economic Forecast, http://www.dot.ca.gov/hq/tpp/offices/eab/socio\_economic\_files/2015/Final%20Forecasts/Stanislaus.pdf



## Employment by employer

Among the top 10 employers, Stanislaus is most reliant on Food & Beverage (4.7%), Education (2.6%), Healthcare (2.3%) and Gov't (1.9%) industries. With the top 10 employers representing just 12.2% of total employment, the county is less susceptible to company and industry specific risk.

		2014			2005		
Employer	Industry	Employees	Rank	% of Total Employment	Employees	Rank	% of Total Employment
County of Stanislaus	Government	3,747	1	1.81%	4,747	1	2.28%
E & J Gallo Winery	Food & Beverage	3,300	2	1.59%	3,425	4	1.65%
Modesto City Schools	Education	3,189	3	1.54%	4,000	3	1.92%
Memorial Medical Center	Healthcare	2,600	4	1.25%	2,600	6	1.25%
Del Monte Foods	Food & Beverage	2,300	5	1.11%	2,600	5	1.25%
Seneca (Signature) Foods	Food & Beverage	2,275	6	1.10%	4,100	2	1.97%
Turlock Unified School District	Education	2,192	7	1.06%	1,851	10	0.89%
Doctors Medical Center	Healthcare	2,100	8	1.01%	2,300	7	1.11%
Stanislaus Food Products	Food & Beverage	1,850	9	0.89%	2,000	8	0.96%
Save Mart Supermarkets	Grocery	1,661	10	0.80%	-	-	
Modesto Junior College	Education	-	-		1,866	9	0.90%
Total		25,214		12.16%	29,489		14.18%

Diversified employer base across industries helps preserve tax base and during economic slowdown.

Source: Stanislaus County Comprehensive Annual Financial Report FY 2014



## Summary

Overall, Stanislaus County enjoys favorable financial and economic conditions.

- The County's credit ratings from Moody's and S&P are high and stable.
- Long-Term debt obligations are well under the legal limit.
- Total Debt is about 1/5 of revenue, which indicates good coverage.
- County revenues have remained steady through the last few years.
- Improving unemployment rates, stable population growth, and a diverse employment base imply a stable tax base.

# Appendix

# Moody's credit rating definitions

Category	Definition
Aaa	Obligations rated Aaa are judged to be of the highest quality, with minimal credit risk.
Aa	Obligations rated Aa are judged to be of high quality and are subject to very low credit risk.
A	Obligations rated A are considered upper-medium grade and are subject to low credit risk.
Baa	Obligations rated Baa are subject to moderate credit risk. They are considered medium-grade and as such may possess certain speculative characteristics.
Investment Grade	that acteristics.
Ва	Obligations rated Ba are judged to have speculative elements and are subject to substantial credit risk.
В	Obligations rated B are considered speculative and are subject to high credit risk.
Caa	Obligations rated Caa are judged to be of poor standing and are subject to very high credit risk.
Ca	Obligations rated Ca are highly speculative and are likely in, or very near, default, with some prospect of recovery of principal and interest.
Ca	Obligations rated ca are riiginy speculative and are likely in, or very hear, detailt, with some prospect of recovery or principal and interest.
С	Obligations rated C are the lowest rated class of bonds and are typically in default, with little prospect for recovery of principal or interest.

Note: Moody's appends numerical modifiers, 1, 2, and 3 to each generic rating classification from Aa through Caa. The modifier 1 indicates that the obligation ranks in the higher end of its generic rating category; the modifier 2 indicates a mid-range ranking; and the modifier 3 indicates a ranking in the lower end of that generic rating category.

Source: Moody's rating Symbols & Definitions



# S&P credit rating definitions

Catagory	edit Ratings*  Definition
Category	
AAA	An obligor rated 'AAA' has extremely strong capacity to meet its financial commitments. 'AAA' is the highest issuer credit rating assigned by Standard & Poor's.
AA	An obligor rated 'AA' has very strong capacity to meet its financial commitments. It differs from the highest-rated obligors only to a small degree.
A	An obligor rated 'A' has strong capacity to meet its financial commitments but is somewhat more susceptible to the adverse effects of changes in circumstances and economic conditions than obligors in higher-rated categories.
BBB	An obligor rated 'BBB' has adequate capacity to meet its financial commitments. However, adverse economic conditions or changing circumstances are more likely to lead to a weakened capacity of the obligor to meet its financial commitments.
Investment Grade	
BB; B; CCC; and CC	Obligors rated 'BB', 'B', 'CCC', and 'CC' are regarded as having significant speculative characteristics. 'BB' indicates the least degree of speculation and 'CC' the highest. While such obligors will likely have some quality and protective characteristics, these may be outweighed by large uncertainties or major exposures to adverse conditions.
ВВ	An obligor rated 'BB' is less vulnerable in the near term than other lower-rated obligors. However, it faces major ongoing uncertainties and exposure to adverse business, financial, or economic conditions which could lead to the obligor's inadequate capacity to meet its financial commitments.
В	An obligor rated 'B' is more vulnerable than the obligors rated 'BB', but the obligor currently has the capacity to meet its financial commitments. Adverse business, financial, or economic conditions will likely impair the obligor's capacity or willingness to meet its financial commitments.
CCC	An obligor rated 'CCC' is currently vulnerable, and is dependent upon favorable business, financial, and economic conditions to meet its financial commitments.
СС	An obligor rated 'CC' is currently highly vulnerable. The 'CC' rating is used when a default has not yet occurred, but Standard & Poor's expects default to be a virtual certainty, regardless of the anticipated time to default.
R	An obligor rated 'R' is under regulatory supervision owing to its financial condition. During the pendency of the regulatory supervision the regulators may have the power to favor one class of obligations over others or pay some obligations and not others.
	An obligor rated 'SD' (selective default) or 'D' is in default on one or more of its financial obligations including rated and unrated financial obligations but excluding hybrid instruments classified as regulatory capital or in non-payment according to terms. An obligor is considered in default unless Standard & Poor's believes that such payments will be made within five business days of the due date in the absence of a stated grace period, or within the earlier of the stated grace period or 30 calendar days. A 'D' rating is assigned when Standard & Poor's believes that the default will be a general default and that the obligor will fail to pay all or substantially all of its obligations as they come due. An 'SD' rating is assigned when Standard & Poor's believes that the obligor has selectively defaulted on a specific issue or class of obligations but it will continue to meet its payment obligations on other issues or classes of obligations in a timely manner. An obligor's rating is lowered to 'D' or 'SD' if it is conducting a distressed
SD and D	exchange offer.
NR	An issuer designated 'NR' is not rated.

\*The ratings from 'AA' to 'CCC' may be modified by the addition of a plus (+) or minus (-) sign to show relative standing within the major rating categories.

Source: Standard and Poor's Ratings Definitions. http://www.standardandpoors.com/en\_US/web/guest/article/-/view/sourceId/504352



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**JANUARY 2016** 

item 8.d

Asset Allocation Study for

**Stanislaus County Employees' Retirement Association** 

# Table of contents



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# Plan profile

# Plan profile

### As of November 30, 2015:

— Total market value of assets = \$1,785,786,133

### As of June 30, 2015:

- Average monthly Plan cash flows based on the previous 24 months:
  - Total Contributions = \$6.06 mil
  - Total Benefit Payments & Expenses = \$8.39 mil
    - Benefit Payments = \$8.19 mil
    - Operating Expenses = \$0.19 mil
  - Net Operating Cash Outflow = \$2.33 mil
  - Total Interest & Dividends = \$3.67 mil
  - Net Cash Inflow = \$1.34 mil
- Total participants = 8,808 (4,145 or 47.1% active, 1,198 or 13.6% inactive, 3,456 or 39.3% retired)
- Open to new participants

### As of June 30, 2014:

- Accrued liability = \$2,026.4 mil (based on interest rate of 7.75%)
- Actuarial assumed rate of return = 7.75%
- Funded ratio = 81.1% (actuarial value of assets) and 88.1% (November 30, 2015 market value of assets)

# Asset allocation analysis



# Descriptions of asset allocation approaches

### Policy and Current portfolios

—Investment portfolio defined in the investment policy statement

### Mix 1 and Mix 2

—Designed to increase risk diversification relative to policy

### Mix 3

—Designed to increase risk diversification relative to policy without an increase in allocation to illiquid assets

### Functionally focused portfolio

- —Design based on functional elements, rather than categorizing assets by asset class or risk factors (e.g., liquidity and short term needs, long term growth assets, diversifying strategies)
- —By explicitly funding near term benefit payments, additional risk can be assumed throughout the remainder of the portfolio

# Asset allocation analysis

										10-yr Capital Market Assumptions				
	Policy	Current	Mix 1	Mix 2	Mix 3	FFP 2 Yr	FFP 3 Yr	FFP 4 Yr	Return	Vol	Sharpe			
Total Equity	56.2	65.0	40.0	40.0	50.0	25.0	27.0	29.0						
Domestic Equity	38.2	46.5	20.0	20.0	25.0	10.0	9.0	8.0						
Large Cap US Equity	30.5	37.0	15.0	15.0	20.0	10.0	9.0	8.0	5.7	14.7	0.25			
Small/Mid Cap US Equity	7.7	9.5	5.0	5.0	5.0	-	-	-	4.7	19.8	0.13			
International Equity	18.0	18.5	20.0	20.0	25.0	15.0	18.0	21.0						
International Large	14.4	14.8	15.0	15.0	20.0	10.0	9.0	8.0	9.5	18.2	0.41			
Emerging Markets	3.6	3.7	5.0	5.0	5.0	5.0	9.0	13.0	11.5	23.7	0.40			
Total Fixed Income	29.8	26.6	24.0	24.0	25.0	21.0	24.0	27.0						
Domestic Fixed Income	29.8	26.6	19.0	19.0	20.0	21.0	24.0	27.0						
US Core Fixed Income	29.8	26.6	15.0	15.0	15.0	-	-	-	3.1	3.2	0.31			
US Treasury	-	-	-	-	-	10.0	7.0	4.0	2.2	6.4	0.01			
Short-Term Govt/Credit	-	-	-	-	-	11.0	17.0	23.0	2.3	1.3	0.17			
High Yield Fixed Income	-	-	4.0	4.0	5.0	-	-	-	3.7	10.5	0.30			
International Fixed Income	-	-	5.0	5.0	5.0	-	-	-						
Emerging Market Debt (Hard)	-	-	2.5	2.5	2.5	-	-	-	5.7	8.9	0.41			
Emerging Market Debt (Local)	-	-	2.5	2.5	2.5	-	-	-	6.2	12.9	0.32			
Total Real Assets	6.5	2.5	10.0	10.0	6.5	15.0	10.0	5.0						
Real Estate	6.5	2.5	10.0	10.0	6.5	15.0	10.0	5.0	5.1	13.2	0.23			
Total Alternatives	7.5	5.7	25.0	25.0	17.5	38.0	38.0	38.0						
Risk Parity	-	-	5.0	-	10.0	10.0	9.0	8.0	7.1	10.3				
Private Equity	-	-	10.0	10.0	-	15.0	15.0	15.0	7.7	23.7	0.24			
Private Credit	7.5	5.7	10.0	15.0	7.5	13.0	14.0	15.0	7.8	10.5	0.55			
Cash	-	0.2	1.0	1.0	1.0	1.0	1.0	1.0	2.1	0.6	-			
Total Allocation	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						
Allocation to Illiquid Strategies	14.0	8.2	30.0	35.0	14.0	43.0	39.0	35.0						



# Asset allocation by functional role

										10-yr Capital Market Assumptions					
	Policy	Current	Mix 1	Mix 2	Mix 3	FFP 2 Yr	FFP 3 Yr	FFP 4 Yr	Return	Vol	Sharpe				
Liquidity	-	0.2	1.0	1.0	1.0	12.0	18.0	24.0							
Cash	-	0.2	1.0	1.0	1.0	1.0	1.0	1.0	2.1	0.6	-				
Short-Term Govt/Credit	-	-	-	-	-	11.0	17.0	23.0	2.3	1.3	0.17				
Diversifying	-	-	5.0	-	10.0	20.0	16.0	12.0							
US Treasury	-	-	-	-	-	10.0	7.0	4.0	2.2	6.4	0.01				
Risk Parity	-	-	5.0	-	10.0	10.0	9.0	8.0	7.1	10.3					
Growth	100.0	99.8	94.0	99.0	89.0	68.0	66.0	64.0							
Domestic Equity	38.2	46.5	20.0	20.0	25.0	10.0	9.0	8.0							
Large Cap US Equity	30.5	37.0	15.0	15.0	20.0	10.0	9.0	8.0	5.7	14.7	0.25				
Small/Mid Cap US Equity	7.7	9.5	5.0	5.0	5.0	-	-	-	4.7	19.8	0.13				
International Equity	18.0	18.5	20.0	20.0	25.0	15.0	18.0	21.0							
International Large	14.4	14.8	15.0	15.0	20.0	10.0	9.0	8.0	9.5	18.2	0.41				
Emerging Markets	3.6	3.7	5.0	5.0	5.0	5.0	9.0	13.0	11.5	23.7	0.40				
Domestic Fixed Income	29.8	26.6	19.0	19.0	20.0	-	-	-							
US Core Fixed Income	29.8	26.6	15.0	15.0	15.0	-	-	-	3.1	3.2	0.3				
High Yield Fixed Income	-	-	4.0	4.0	5.0	-	-	-	3.7	10.5	0.3				
International Fixed Income	-	-	5.0	5.0	5.0	-	-	-							
Emerging Markets Debt (Hard)	-	-	2.5	2.5	2.5	-	-	-	5.7	8.9	0.4				
Emerging Markets Debt (Local)	-	-	2.5	2.5	2.5	-	-	-	6.2	12.9	0.3				
Real Estate	6.5	2.5	10.0	10.0	6.5	15.0	10.0	5.0	5.1	13.2	0.23				
Private Equity	-	-	10.0	10.0	-	15.0	15.0	15.0	7.7	23.7	0.24				
Private Credit	7.5	5.7	10.0	15.0	7.5	13.0	14.0	15.0	7.8	10.5	0.55				
Total Allocation	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0							
Allocation to Illiquid Strategies	14.0	8.2	30.0	35.0	14.0	43.0	39.0	35.0							



# Asset allocation analysis

	Policy	Current	Mix 1	Mix 2	Mix 3	FFP 2 Yr	FFP 3 Yr	FFP 4 Yr
Mean Variance Analysis								
Forecast 10 Year Return	6.1	6.1	7.1	7.0	7.1	7.0	7.1	7.2
Standard Deviation	10.1	11.1	10.9	11.0	10.7	9.2	9.5	10.0
Return/Std. Deviation	0.6	0.6	0.7	0.6	0.7	0.8	0.7	0.7
1st percentile ret. 1 year	-21.7	-23.4	-24.4	-25.0	-24.2	-21.0	-21.7	-22.4
Sharpe Ratio	0.44	0.41	0.51	0.49	0.51	0.57	0.57	0.55
Verus Economic Scenario Analysis								
10 Year Return Forecast								
Stagflation	4.9	4.8	6.0	5.8	5.4	6.4	6.3	6.1
Weak Economy	1.9	1.6	3.1	2.9	2.8	3.7	3.7	3.7
Base CMA	5.6	5.7	6.6	6.5	6.7	6.5	6.7	6.9
Strong	9.4	9.9	10.0	10.0	10.1	9.4	9.5	9.6
Range of Scenario Forecast	7.5	8.3	6.9	7.0	7.3	5.7	5.8	5.9
Economic Shock (1 year)	-23.9	-26.9	-22.7	-23.7	-22.5	-17.9	-19.2	-20.5

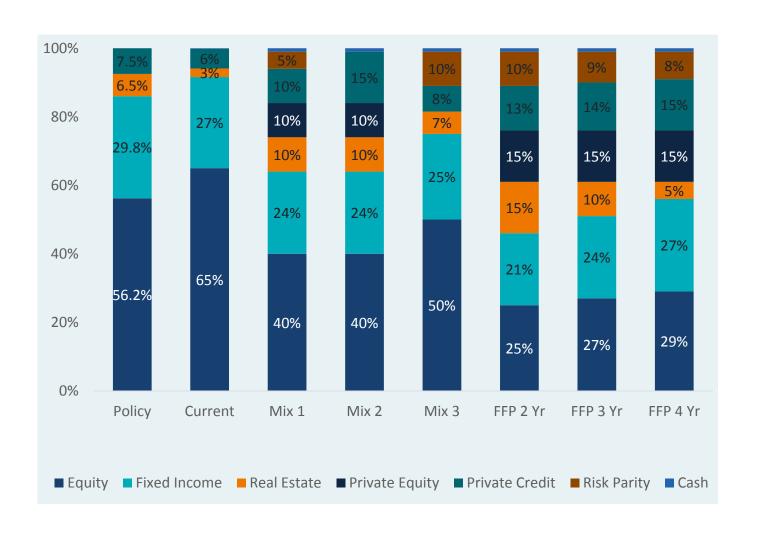
### Notes:

- Real Estate capital market assumptions are for core real estate
- Verus' assumed inflation rate is 2.1% over the next 10 years (actuarial assumption is 3.50% over 30 years)

Scenario Analysis utilizes October 2015 Verus Capital Market Assumptions

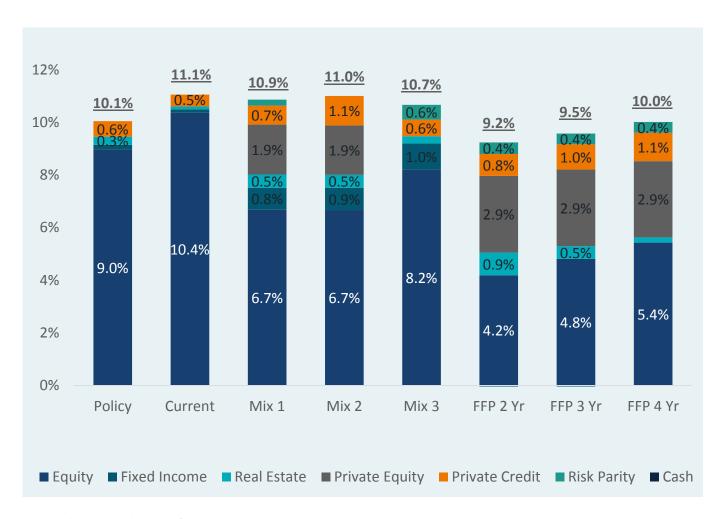


# Allocation by asset class





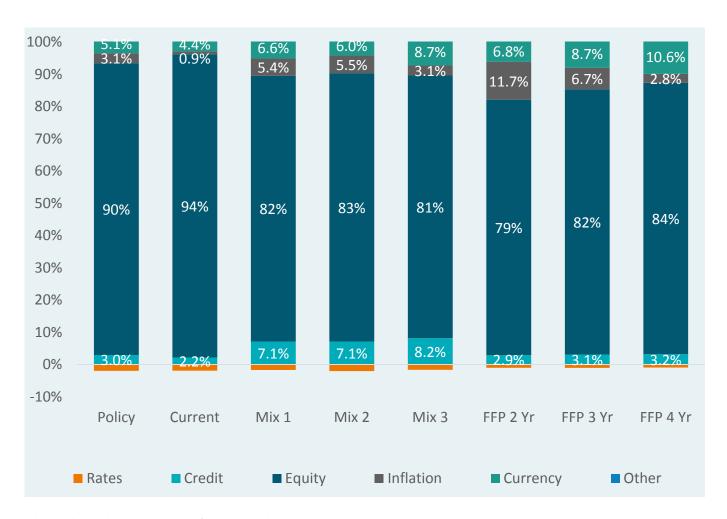
# Risk contribution by asset class



Risk contribution based on Verus' Capital Market Assumptions



# Risk contribution by risk factor

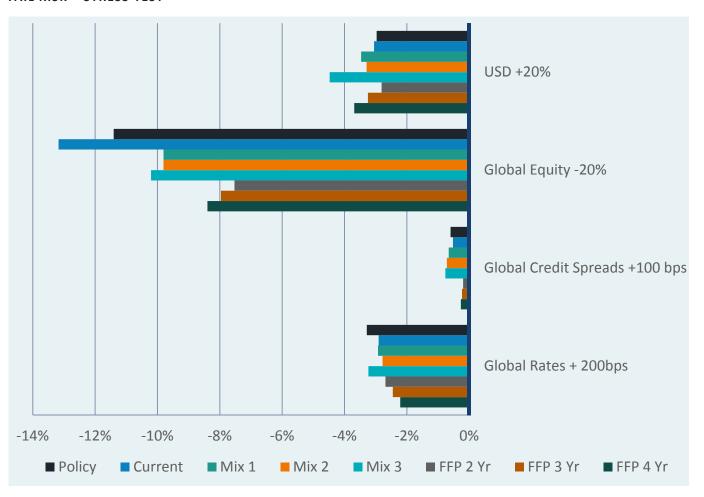


Risk contribution based on BarraOne's Capital Market Assumptions



## Stress test

### TAIL RISK - STRESS TEST



BarraOne's risk decomposition analysis can hypothesize how the different portfolios would have performed in certain hypothetical stress tests or historical environments.

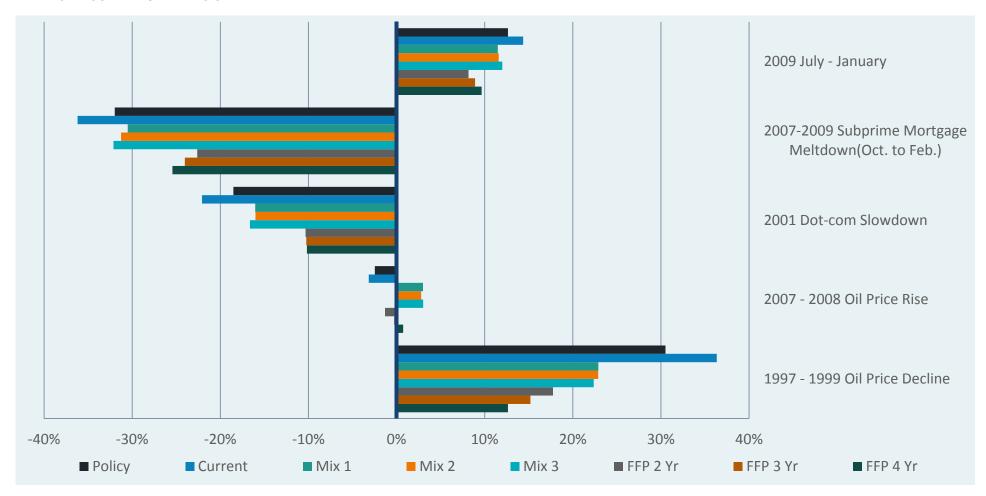
This analysis is based on how the risk factors inherent in the current index holdings reacted in those environments.

Scenario analysis based on risk factors in current policy index and computed as hypothetical scenarios using MSCI BarraOne



# Historical scenario analysis

### TAIL RISK - SCENARIO ANALYSIS

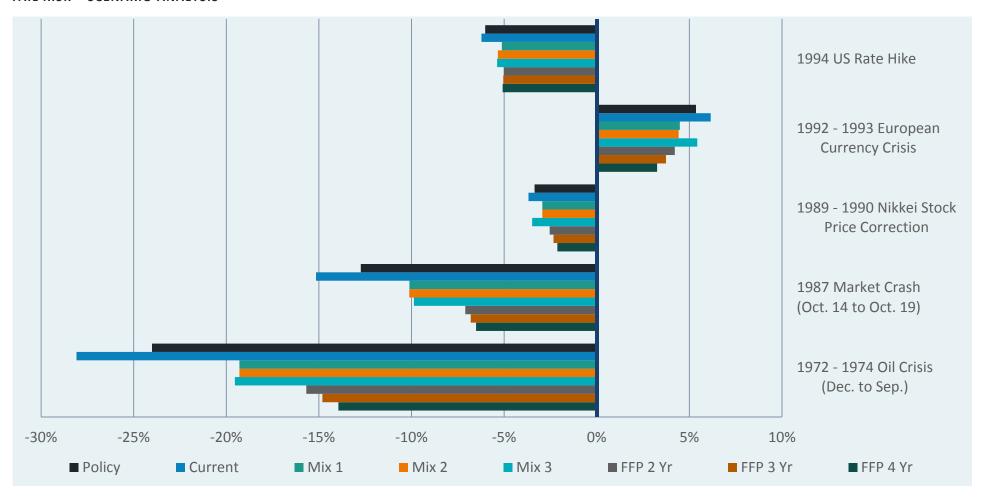


Scenario analysis based on risk factors in current policy index and computed as hypothetical scenarios using MSCI BarraOne



# Historical scenario analysis

### TAIL RISK - SCENARIO ANALYSIS



Scenario analysis based on risk factors in current policy index and computed as hypothetical scenarios using MSCI BarraOne



# Investment model evaluation summary

### **Investment Models**

Selection Criteria	Policy	Current	Mix 1	Mix 2	Mix 3	FFP 2 Yr	FFP 3 Yr	FFP 4 Yr
Risk/Return Metrics								
Expected Return	6.1%	6.1%	7.1%	7.0%	7.1%	7.0%	7.1%	7.2%
Volatility	10.1%	11.1%	10.9%	11.0%	10.7%	9.2%	9.5%	10.0%
Sharpe Ratio	0.44	0.41	0.51	0.49	0.51	0.57	0.57	0.55
% chance of meeting 7.75%	30%	32%	42%	41%	42%	40%	41%	43%
Daily VaR (95% confidence, \$MM)	\$18.2	\$21.5	\$15.4	\$16.5	\$18.4	\$11.1	\$12.1	\$12.5
Daily CVaR (95% confidence, \$MM)	\$26.5	\$29.5	\$25.6	\$26.4	\$28.0	\$20.5	\$21.1	\$22.3
2007-2009 Drawdown (Simulation)	-32.0%	-36.2%	-30.5%	-31.3%	-32.1%	-22.6%	-24.0%	-25.4%
1st Percentile (1 Year, MVA)	-21.7%	-23.4%	-24.4%	-25.0%	-24.2%	-21.0%	-21.7%	-22.4%
Risk Factors								
Portfolio Complexity	low	low	high	high	med	high	high	high
Leverage	low	low	high	med	med	high	high	high
Peer/Headline Risk	low	low	med	med	med	high	high	high
Liquidity Risk	low	low	high	high	low	high	med	low
Tail Risk	high	high	med	high	high	low	low	low
Equity Risk Allocation	high	high	med	med	med	low	med	med





# Date horizon of historical scenario analysis

Scenario	From	То
1072 1074 Oil Crisis (Doc to Con )		
1972 - 1974 Oil Crisis (Dec. to Sep.)	December 1, 1972	September 30, 1974
1987 Market Crash (Oct. 14 to Oct. 19)	October 14, 1987	October 19, 1987
1989 - 1990 Nikkei Stock Price Correction	December 29, 1989	March 30, 1990
1992 - 1993 European Currency Crisis	September 1, 1992	August 13, 1993
1994 US Rate Hike	January 31, 1994	December 13, 1994
1997 - 1999 Oil Price Decline	January 8, 1997	February 16, 1999
2001 Dot-com Slowdown	March 10, 2001	October 9, 2002
2007 - 2008 Oil Price Rise	January 18, 2007	June 27, 2008
2007-2009 Subprime Mortgage Meltdown(Oct. to Feb.)	October 1, 2007	February 27, 2009
2009 July - January	July 1, 2009	December 31, 2009

Source: MSCI BarraOne



# 10 year return & risk assumptions

	_	Ten Year Re	eturn Forecast	Standard Deviation	Sharpe Ratio	Ten Year Historical
Asset Class	Index Proxy	Geometric	Arithmetic	Forecast	Forecast	Sharpe Ratio
Equities						
US Large	S&P 500	5.7%	6.7%	14.7%	0.25	0.47
US Small	Russell 2000	4.7%	6.5%	19.8%	0.13	0.40
International Developed	MSCI EAFE	9.5%	11.0%	18.2%	0.41	0.25
International Small	MSCI EAFE Small Cap	9.2%	11.0%	19.7%	0.36	0.32
Emerging Markets	MSCI EM	11.5%	13.9%	23.7%	0.40	0.40
Private Equity	Cambridge Private Equity	7.7%	10.2%	23.7%	0.24	1.07
Fixed Income						
Cash	30 Day T-Bills	2.1%	2.1%	0.6%	-	-
US TIPS	Barclays US TIPS 5 - 10	2.6%	2.8%	6.3%	0.07	0.47
US Treasury	Barclays Treasury 7 - 10 year	2.2%	2.4%	6.4%	0.01	0.65
Global Sovereign ex US	Barclays Global Treasury ex US	2.5%	2.8%	7.9%	0.05	0.18
Core Fixed Income	Barclays US Aggregate Bond	3.1%	3.2%	3.2%	0.31	0.96
Core Plus Fixed Income	Barclays US Corporate IG	3.8%	4.0%	5.9%	0.29	0.67
Short-Term Gov't/Credit	Barclays US Gov't/Credit 1 - 3 year	2.3%	2.3%	1.3%	0.17	1.09
Short-Term Credit	Barclays Credit 1 - 3 year	2.6%	2.6%	2.3%	0.22	0.88
Long-Term Credit	Barclays Long US Corporate	3.7%	4.3%	11.0%	0.15	0.55
High Yield Corp. Credit	Barclays High Yield	5.2%	5.8%	10.5%	0.30	0.61
Bank Loans	S&P/LSTA	3.7%	4.1%	8.7%	0.19	0.44
Global Credit	Barclays Global Credit	1.9%	2.2%	7.4%	-0.02	0.49
Emerging Markets Debt (Hard)	JPM EMBI Global Diversified	5.7%	6.1%	8.9%	0.41	0.72
Emerging Markets Debt (Local)	JPM GBI EM Global Diversified	6.2%	7.0%	12.9%	0.32	0.46
Private Credit	High Yield + 200 bps	7.8%	8.4%	10.5%	0.55	-
Other						
Commodities	Bloomberg Commodity	4.1%	5.7%	18.2%	0.11	-0.10
Hedge Funds	HFRI Fund of Funds	6.0%	6.4%	9.1%	0.43	0.29
Core Real Estate	NCREIF Property	5.1%	5.9%	13.2%	0.23	0.93
REITs	Wilshire REIT	5.1%	8.1%	26.4%	0.11	0.38
Inflation		2.1%	-	-	-	-

Both geometric and arithmetic return forecasts have been included. It is important that users of this information understand how we derived it. Our forecast process involves the use of a wide range of data inputs (of a variety of different types) to create geometric return forecasts for individual asset classes – this is the process described at length in this document. We use an industry standard formula to convert these to arithmetic return forecasts, and provide both for client use.

Investors wishing to produce expected geometric return forecasts for their portfolios should use the arithmetic return forecasts provided here as inputs into that calculation, rather than the single-asset-class geometric return forecasts. This is the industry standard approach, but requires a complex explanation only a heavy quant could love, so we have chosen not to provide further details in this document – we will happily provide those details to any readers of this who are interested.

More broadly, it is important that the user of these forecasts remembers that return forecasts (whoever provides them) are there to provide a guide to the likely future, no more. While we believe that the approach described in this document is an appropriate one to use for those purposes, and that the forecasts resulting from that approach are meaningful and fit for the uses to which they will be put, users of any such forecasts should always bear in mind the fact that the single most difficult thing to predict is the future, and approach that exercise with appropriate skepticism.



# Correlation assumptions

	Cash	US Large		Developed Large	Developed Small	EM	PE	TIPS	US Treasury	Global Sovereign	US Core	US Core Plus	Short –Term Govt/Credit	Short-Term Credit	Long-Term Credit	US HY	Bank Loans	Global Credit	EMD USD	EMD Local	Commodities	Hedge Funds	Real Estate	REITs	Inflation
Cash	1																								
US Large	-0.1	1																							
US Small	-0.1	0.9	1																						
Developed Large	0.0	0.9	0.8	1																					
Developed Small	0.0	0.8	0.8	1.0	1																				
EM	0.1	8.0	0.7	0.9	0.9	1																			
PE	-0.2	0.7	0.7	0.8	0.8	0.7	1																		
TIPS	0.0	0.2	0.1	0.2	0.3	0.3	0.2	1																	
US Treasury	0.0	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	0.6	1																
Global Sovereign	0.0	0.2	0.2	0.4	0.4	0.4	0.5	0.6	0.5	1															
US Core	0.0	0.1	0.0	0.1	0.1	0.1	0.0	8.0	0.9	0.6	1														
US Core Plus	-0.1	0.4	0.3	0.5	0.5	0.5	0.6	0.7	0.5	0.5	0.8	1													
Short –Term Govt/Credit	0.3	-0.1	-0.1	0.1	0.1	0.1	-0.2	0.6	0.6	0.6	0.7	0.6	1												
Short-Term Credit	0.0	0.3	0.3	0.5	0.5	0.5	-0.2	0.6	0.2	0.5	0.6	0.8	0.7	1											
Long-Term Credit	-0.1	0.3	0.2	0.4	0.4	0.4	0.1	0.6	0.5	0.5	0.8	1.0	0.4	0.6	1										
US HY	-0.1	0.7	0.7	0.8	0.8	0.7	0.6	0.4	-0.2	0.3	0.2	0.6	0.1	0.6	0.5	1									
Bank Loans	-0.1	0.6	0.6	0.6	0.6	0.6	0.2	0.2	-0.4	0.0	0.0	0.4	-0.1	0.5	0.3	0.9	1								
Global Credit	-0.1	0.6	0.5	0.8	0.8	0.7	0.7	0.6	0.2	0.8	0.6	0.8	0.5	0.8	0.7	0.7	0.5	1							
EMD USD	-0.1	0.6	0.5	0.7	0.7	0.7	0.5	0.7	0.3	0.5	0.6	0.8	0.4	0.7	0.7	0.8	0.6	0.8	1						
EMD Local	0.1	0.7	0.6	0.8	0.8	0.8	0.6	0.5	0.1	0.6	0.4	0.6	0.3	0.5	0.5	0.7	0.4	0.8	0.8	1					
Commodities	0.1	0.5	0.4	0.6	0.6	0.7	0.2	0.3	-0.2	0.4	0.1	0.3	0.1	0.4	0.2	0.5	0.4	0.6	0.5	0.6	1				
Hedge Funds	0.1	0.7	0.6	0.8	0.8	0.8	0.7	0.2	-0.3	0.1	0.0	0.4	0.0	0.4	0.2	0.6	0.6	0.6	0.5	0.6	0.7	1			
Real Estate	-0.1	0.4	0.3	0.3	0.3	0.3	0.3	0.1	-0.1	0.1	0.0	0.2	-0.1	-0.1	0.1	0.2	0.0	0.2	0.2	0.3	0.0	0.3	1		
REITs	0.0	8.0	8.0	0.7	0.6	0.6	0.6	0.2	-0.1	0.3	0.2	0.4	0.0	0.3	0.4	0.7	0.5	0.6	0.6	0.6	0.3	0.4	0.4	1	
Inflation	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	-0.3	0.0	-0.3	-0.2	-0.2	0.0	-0.3	0.2	0.4	0.0	0.0	0.1	0.3	0.2	0.1	0.1	1

Note: Correlation assumptions are based on the last ten years. Private Equity and Real Estate correlations are especially difficult to model – we have therefore used BarraOne correlation data to strengthen these correlation estimates.



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