

## <u>AGENDA</u>

## RETIREMENT BOARD MEETING

REGULAR MEETING January 25, 2023, 9:00 a.m.

The Board of Retirement will hold its meeting via teleconferencing as permitted by Government Code Section 54953(e). The meeting is accessible telephonically at 669-900-6833, Webinar ID: 816 6899 4370, Passcode: 432209, or via the web at:

https://us06web.zoom.us/j/81668994370?pwd=SHhmNVhMamwvTGs0eUtGMIBSMG5pUT09

Passcode: 432209

Persons who wish to address the Board of Retirement during public comment may call in during the meeting by dialing the phone number and passcode above. Access via Zoom is also available at the weblink above. To indicate you wish to speak during public comment, please select \*9 on your phone or "raise your hand" in the Zoom app.

Public comments are limited to any item that is within the subject matter jurisdiction of the Board of Retirement. Comments will be received in real time via telephone or Zoom, subject to a three-minute time limit per speaker.

## THE RETIREMENT BOARD MAY DISCUSS AND TAKE ACTION ON THE FOLLOWING:

- 1. Pledge of Allegiance.
- 2. Roll Call.
- 3. Public Comment (3 minutes/speaker).
- 4. Verus review of investment performance attribution analysis. (Discussion Item)
- 5. Update on private equity commitments. (Discussion Item)
- 6. Consider and take possible action to adopt a cost-of-living increase for retirees as of April 1, 2023. (Action Item)
- 7. Update on the retirement application process improvement project. (Discussion Item)

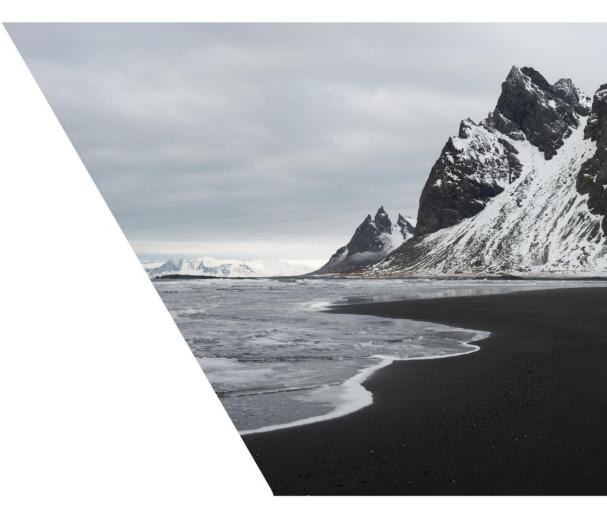
The Retirement Board will provide reasonable accommodations for persons with disabilities planning to attend Board meetings who contact the Retirement Office at least 24 hours before a meeting.

- 8. Consider authorizing the attendance of Board: (Action Item)
  - a. CALAPRS General Assembly, March 4-7, 2023, Monterey, CA.
  - b. Portfolio Concepts and Management, IFEBP, May 1-4, 2023, Wharton, PA. (Note: Conflict with Board Meeting)
- 9. Miscellaneous
  - a. Staff Report
  - b. Outside Professionals' Report
  - c. Trustees' comments

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## **DECEMBER 2022**

Detailed Performance Attribution Analysis (July 1, 2019 through September 20, 2022)

**Contra Costa Employees' Retirement Association** 

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## Executive summary

- Following a review of 2Q22 portfolio performance. Verus expressed concern over one and three-year benchmark relative performance and subsequently undertook a detailed attribution modeling exercise to clearly determine the components of underperformance and identify if any structural issues may need to be addressed.
- Attribution analysis identified three primary sources of underperformance that occurred at different times over the past three years:
  - private equity benchmarking;
  - international equity managers; and
  - the Plan's cash overlay program.
- Based on this analysis, Verus has determined the primary causes of underperformance are not structural in nature and no corrective action is necessary at this time.



## Problem identification

In the second quarter, cumulative underperformance across multiple time periods called for deeper analysis to identify potentially systemic portfolio structure issues.

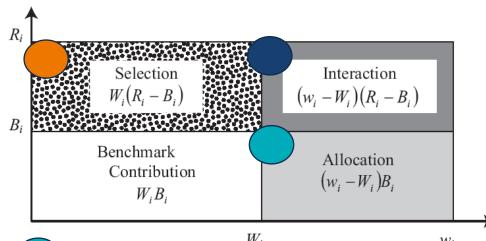
Total Fund Executive Summary (Net of Fees)

Period Ending: June 30, 2022

	% of Portfolio	QTD	YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs	2021	2020	2019	2018	2017
Total Fund	100.0	-7.7	-10.8	-6.7	5.1	5.7	7.4	13.9	9.2	14.6	-2.7	13.9
Policy Index		-7.0	-8.9	-2.9	7.0	7.1	8.2	15.3	10.8	14.6	-0.9	13.7
Growth	74.9	-9.0	-12.1	-6.4	7.5	7.7	8.9	19.2	12.0	18.3	-3.9	18.7
Custom Growth Benchmark		-9.1	-11.0	-3.3	9.7	9.4	9.8	21.6	13.8	19.3	-2.1	19.3
Diversifying	7.6	-0.7	-3.5	-3.2	-0.4	0.4	0.4	1.7	-1.7	6.8	-2.3	2.6
Custom Diversifying Benchmark		-2.1	-4.9	-3.9	1.0	2.1	2.5	1.6	4.7	6.1	1.4	4.7
Liquidity	12.2	-0.8	-3.2	-3.7	0.4	1.3		-0.3	3.4	4.8	1.7	1.4
Bloomberg US Govt/Credit 1-3 Yr. TR		-0.6	-3.1	-3.6	0.3	1.1	-	-0.5	3.3	4.0	1.6	0.8

We undertook
the
development of
detailed,
customized
performance
attribution
model to help
determine the
specific sources
of under
performance.

## Attribution primer – yep, we get to do a little math



We want...

Portfolio Return – Policy Return

To be decomposed...

- Allocation: Policy Return \* (Portfolio Weight Policy Weight)
- Selection: Policy Weight \* (Portfolio Return Policy Return)
- Interaction: (Portfolio Weight Policy Weight) \* (Portfolio Return Policy Return)

https://www.cfainstitute.org/-/media/documents/support/programs/cipm/2019-cipm-l1v1r5.ashx

## Interaction effect – and just a little more math

Interaction is a mathematical residual of the rational construction of selection and allocation effects. It is does not represent the result of a conscience investment decision, nor is it of much informational value.

Interaction: (Portfolio Weight - Policy Weight) \* (Portfolio Return – Policy Return)

Four possible outcomes from this calculation

- 1. Overweight (Positive) \* Overperform(Positive) = Positive
  - I overweight a winner, I deserve a positive result
- 2. Overweight (Positive) \* Underperform (Negative) = Negative
  - I overweight a loser, I deserve a negative result
- 3. Underweight(Negative) \* Underperform (Negative) = Positive
  - I underweight a loser, this is a **good** thing (positive result is rational)
- 4. Underweight(Negative) \* Overperform (positive) = Negative
  - I underweight a winner, I deserve a negative result

Typically, interaction effect is de minimis.

## Policy benchmarks over time

Analysis was conducted over 3 years and 4 periods, each representing a distinct policy benchmark.

		Period 1	Period 2	Period 3	Period 4
		7/1/2019	7/1/2020	1/1/2021	7/1/2021
Asset Bucket	Benchmark	6/30/2020	12/31/2020	6/30/2021	6/30/2022
Domestic Equity	Russell 3000	10.0%	9.0%	9.0%	16.0%
International Equity	MSCI ACWI ex USA Growth	18.0%	18.0%	18.0%	16.0%
Global Equity	MSCI ACWI	11.0%	11.0%	11.0%	9.0%
Diversifying Fixed Incom	Bloomberg US Aggregate TR	3.5%	3.0%	3.0%	2.5%
Liquidity	Bloomberg US Govt/Credit 1-3 Yr. TR	24.0%	25.0%	25.0%	18.0%
High Yield	ICE BofAML High Yield Master II	2.0%	1.5%	1.5%	2.0%
Private Credit	Total Private Credit Benchmark	0.0%	0.0%	7.0%	8.0%
Private Credit	ICE BofAML High Yield Master II + 2%	5.0%	7.0%	0.0%	0.0%
Private Equity	S&P 500 Index +4% (Lagged)	11.0%	11.0%	0.0%	0.0%
Private Equity	Total Private Equity Benchmark	0.0%	0.0%	11.0%	11.0%
Risk Parity	60% MSCI ACWI Net/40% Bloomberg Glob	0.0%	0.0%	0.0%	3.0%
Diversifying	Bloomberg Barclays Global Aggregate TR	2.0%	2.0%	2.0%	0.0%
Diversifying Multi-Asset	CPI + 4%	2.0%	1.5%	1.5%	3.0%
Core Real Estate	Wilshire REIT	1.0%	1.0%	1.0%	2.0%
Private Real Estate	Private Real Estate Benchmark	0.0%	0.0%	8.0%	8.0%
Private Real Estate	NCREIF Property Index	1.6%	1.6%	0.0%	0.0%
Private Real Estate	NCREIF-ODCE	6.4%	6.4%	0.0%	0.0%
Diversifying Multi-Asset	HFRI EH: Equity Market Neutral Index	2.5%	2.0%	2.0%	1.5%
Cash	91 Day T Bills	0.0%	0.0%	0.0%	0.0%

Plan year 2021 was split into two 6-month periods as a result of the change in the private markets benchmark



## High level attribution

Two of the four periods had significant underperformance relative to policy but for different reasons. Period 2 was primarily due to private equity benchmark mismatch. Period 4 was primarily due to multiple factors, including manager performance and the overlay program.

		Policy Periods	: Largest Co	ntributors/	Detractors
Bucket	Asset Class	1	2	3	4
Growth	Domestic Equity	-0.53%	0.31%	-0.02%	-0.60%
Growth	International Equit	0.14%	0.47%	0.53%	-0.95%
Growth	Global Equity	0.71%	-0.30%	-0.43%	-0.38%
Growth	High Yield	-0.02%	-0.01%	-0.02%	0.04%
Growth	Core Real Estate	0.04%	0.01%	-0.02%	-0.02%
Growth	Private Equity	0.48%	-2.58%	-0.12%	0.18%
Growth	Private Credit	-0.07%	-0.40%	-0.01%	0.03%
Growth	Private Real Estate	-0.27%	-0.21%	0.05%	-0.49%
Growth	Risk Parity	-0.04%	-0.05%	-0.11%	-0.12%
Diversifyi	Diversifying	-0.45%	0.31%	0.26%	-0.30%
Liquidity	Liquidity	-0.23%	0.51%	0.55%	-0.19%
Cash	Cash	0.06%	-0.28%	-0.18%	0.15%
Overlay	Overlay	-0.13%	0.20%	0.12%	-1.12%
Total (I	Portfolio - Policy)	-0.32%	-2.03%	0.61%	-3.77%

Period 1: 7/1/2019 - 6/30/2020 Period 2: 7/1/2020 - 12/31/2020 Period 3: 1/1/2021 - 6/30/2021 Period 4: 7/1/2021 - Now



## Detailed attribution – periods by effect

This chart splits each of the four periods into the three attribution effects, i.e., Allocation, Selection, and Interaction. In the first and third periods, the larger effects were mostly offsetting. In period two private equity "selection" overwhelmed the other effects, and in period four, the largest effects were all detractors.

		Period 1: 7/1/2019 - 6/30/2020				Period	2: 7/1/202	20 - 12/31/2	Period 3: 1/1/2021 - 6/30/2021				Period 4: 7/1/2021 - 6/30/22				
Bucket	Asset Class	Allocation S	Selection	Interaction	Total	AllocationS	Selection I	nteraction	Total	AllocationS	Selection Ir	nteraction	Total	Allocation S	Selection I	nteraction	Total
Growth	Domestic Equity	-0.06%	-0.45%	-0.02%	-0.53%	0.07%	0.22%	0.02%	0.31%	0.13%	-0.11%	-0.04%	-0.02%	0.06%	-0.69%	0.03%	-0.60%
Growth	International Equity	-0.11%	0.28%	-0.03%	0.14%	-0.06%	0.52%	0.01%	0.47%	0.02%	0.47%	0.04%	0.53%	-0.13%	-0.80%	-0.02%	-0.95%
Growth	Global Equity	0.08%	0.79%	-0.16%	0.71%	-0.08%	-0.24%	0.03%	-0.30%	-0.02%	-0.42%	0.02%	-0.43%	-0.11%	-0.25%	-0.02%	-0.38%
Growth	High Yield	-0.01%	-0.01%	0.00%	-0.02%	0.00%	-0.01%	0.00%	-0.01%	-0.01%	0.00%	0.00%	-0.02%	0.04%	0.00%	0.00%	0.04%
Growth	Core Real Estate	0.02%	0.03%	0.00%	0.04%	0.00%	0.00%	0.00%	0.01%	-0.03%	0.01%	0.00%	-0.02%	-0.10%	0.08%	0.00%	-0.02%
Growth	Private Equity	-0.10%	0.56%	0.02%	0.48%	0.05%	-2.53%	-0.10%	-2.58%	-0.12%	0.00%	0.00%	-0.12%	0.18%	0.00%	0.00%	0.18%
Growth	Private Credit	0.00%	0.03%	-0.10%	-0.07%	-0.01%	-0.37%	-0.03%	-0.40%	-0.01%	0.00%	0.00%	-0.01%	0.03%	0.00%	0.00%	0.03%
Growth	Private Real Estate	-0.04%	-0.22%	0.00%	-0.27%	0.19%	-0.46%	0.06%	-0.21%	0.05%	0.00%	0.00%	0.05%	-0.49%	0.00%	0.00%	-0.49%
Growth	Risk Parity	-0.08%	0.00%	0.04%	-0.04%	-0.73%	0.00%	0.68%	-0.05%	-0.41%	0.00%	0.30%	-0.11%	-0.18%	0.03%	0.02%	-0.12%
Diversifyir	n{ Diversifying	-0.05%	-0.53%	0.13%	-0.45%	0.37%	-0.10%	0.04%	0.31%	0.24%	0.04%	-0.02%	0.26%	0.05%	-0.34%	-0.01%	-0.30%
Liquidity	Liquidity	-0.17%	-0.09%	0.03%	-0.23%	0.43%	0.09%	-0.01%	0.51%	0.50%	0.06%	-0.02%	0.55%	-0.18%	-0.02%	0.01%	-0.19%
Cash	Cash	0.02%	0.00%	0.04%	0.06%	-0.29%	0.00%	0.01%	-0.28%	-0.19%	0.00%	0.01%	-0.18%	0.13%	0.00%	0.02%	0.15%
Overlay	Overlay	0.00%	0.00%	-0.13%	-0.13%	-0.13%	0.00%	0.33%	0.20%	-0.11%	0.00%	0.23%	0.12%	0.03%	0.00%	-1.15%	-1.12%
Total		-0.50%	0.39%	-0.20%	-0.32%	-0.19%	-2.86%	1.02%	-2.03%	0.05%	0.04%	0.52%	0.61%	-0.66%	-1.99%	-1.11%	-3.77%

Green and orange reflect any effect greater than +/- 20 basis points, respectively.



## Private equity

The selection effect implies the private markets portfolio significantly underperformed its benchmark over time. However, the apparent underperformance was caused by the change in the benchmarking methodology following a period of significant underperformance.



Beginning in 1Q21, the PE benchmark was changed to effectively eliminate the benchmark mismatch impact on Total Plan Tracking Error.

Note: Old Benchmark was S&P 500 + 4%, lagged one quarter; New Benchmark is the return of the Private Equity Composite.



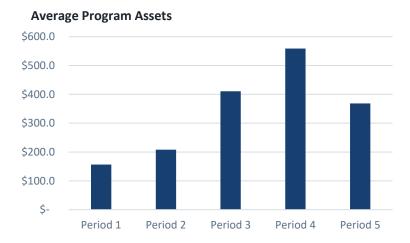
## Overlay program

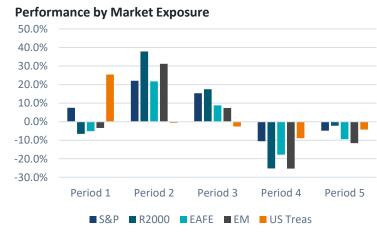
As stated earlier, the interaction effect demonstrated by the overlay program is not the result of an intentional investment decision, rather it was caused by the existence of the program itself, which is designed to reduce cash drag by investing residual cash in line with high-level risk factor targets.

## Overlay Program Contribution to Total Fund Out/Underperformance

Asset Class	Peiod 1	Period 2	Period 3	Period 4	Period 5
Overlay	-0.13%	0.20%	0.12%	-1.12%	-0.13%

 As one could expect, the period with the largest negative contribution (Period 4) coincides with the period of highest average program assets and the worst market performance.







## International equity – quarter-by-quarter

		1				D 1 14 04 2024				1				Period 4: Q2 2022			
			Period 4:			Period 4: Q4 2021 Allocation Selection Interaction Total					Period 4:						
Bucket	Asset Class	Allocation	Selection	Interaction	Total	Allocations	Selection	Interaction	Total	Allocations	Selection	Interaction	Total	Allocation	selection I	nteraction	Total
Growth	Domestic Equity	0.03%	-0.06%	0.03%	0.00%	-0.02%	0.47%	0.01%	-0.48%	-0.01%	-0.17%	0.00%	-0.18%	0.06%	-0.04%	0.00%	0.03%
Growth	International Equit	-0.15%	-0.21%	-0.01%	-0.38%	-0.02%	-0.24%	0.00%	-0.27%	0.00%	-0.52%	0.00%	-0.53%	0.03%	0.13%	0.00%	0.16%
Growth	Global Equity	-0.05%	0.12%	0.02%	0.09%	0.02%	-0.22%	-0.02%	-0.22%	-0.03%	-0.15%	-0.01%	-0.20%	-0.05%	-0.01%	0.00%	-0.06%
Growth	High Yield	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.02%	0.01%	0.00%	0.00%	0.01%	0.01%	0.00%	0.00%	0.01%
Growth	Core Real Estate	0.00%	0.02%	-0.01%	0.01%	-0.14%	-0.01%	0.00%	-0.14%	0.05%	0.00%	0.00%	0.05%	-0.03%	0.07%	0.01%	0.05%
Growth	Private Equity	-0.08%	0.00%	0.00%	-0.08%	0.02%	0.00%	0.00%	0.02%	0.06%	0.00%	0.00%	0.06%	0.17%	0.00%	0.00%	0.17%
Growth	Private Credit	0.03%	0.00%	0.00%	0.03%	0.01%	0.00%	0.00%	0.01%	-0.03%	0.00%	0.00%	-0.03%	0.03%	0.00%	0.00%	0.03%
Growth	Private Real Estate	-0.06%	0.00%	0.00%	-0.06%	-0.01%	0.00%	0.00%	-0.01%	-0.20%	0.00%	0.00%	-0.20%	-0.22%	0.00%	0.00%	-0.22%
Growth	Risk Parity	-0.05%	0.04%	0.03%	0.01%	-0.01%	-0.03%	-0.01%	-0.05%	-0.05%	0.02%	0.01%	-0.02%	-0.07%	0.00%	0.00%	-0.07%
	ns Diversifying	0.02%	-0.03%	0.00%	-0.01%	0.00%	-0.11%	0.01%	-0.10%	0.02%	-0.16%	-0.01%	-0.15%	0.01%	-0.05%	-0.01%	-0.04%
Liquidity	Liquidity	0.02%	-0.02%	0.00%	0.00%	0.16%	0.02%	0.01%	0.17%	0.02%	0.01%	0.01%	0.13%	-0.36%	-0.02%	0.01%	-0.37%
Cash	Cash	-0.08%	0.00%	0.00%	-0.07%	-0.18%	0.02%	0.00%	-0.18%	0.03%	0.00%	0.00%	0.03%	0.29%	0.00%	0.01%	0.30%
		-0.03%	0.00%	-0.16%	-0.07%	-0.18%	0.00%	0.00%	0.07%	0.07%	0.00%	-0.32%	-0.30%	0.23%	0.00%	-0.77%	-0.70%
Overlay	Overlay	1															
Total		-0.39%	-0.16%	-0.09%	-0.64%	-0.20%	-1.06%	0.09%	-1.17%	-0.07%	-0.98%	-0.34%	-1.38%	-0.05%	0.08%	-0.76%	-0.72%
			Period 2:				Period 2:				Period 3:				Period 3: C		
Bucket	Asset Class	1		Interaction	Total			Interaction	Total			Interaction	Total	Allocations			
Growth	Domestic Equity	0.02%	0_18%_	0.01%	-0.17%	0.05%	0.40%	0.03%	_0_47%	0.05%	0.03%	0.00%	0.08%	0_07%_	0.14%_	-0.03%	-0.10%
Growth	International Equit	15	0.28%	-0.01%	0.26%	-0.05%	0.21%	0.02%	0.18%	0.01%	0.05%	0.00%	0.06%	0.01%	0.41%	0.04%	0.45%
Growth	Global Equity	-0.03%	0.22%	-0.01%	0.18%	-0.05%	-0.45%	0.03%	-0.47%	-0.01%	-0.40%	0.02%	-0.39%	-0.01%	0.00%	0.00%	-0.01%
Growth	High Yield	0.00%	0.01%	0.00%	0.01%	0.00%	-0.02%	0.00%	-0.02%	0.00%	0.00%	0.00%	-0.01%	0.00%	0.00%	0.00%	-0.01%
Growth	Core Real Estate	0.01%	0.00%	0.00%	0.01%	-0.01%	0.00%	0.00%	-0.01%	-0.01%	0.00%	0.00%	-0.01%	-0.01%	0.00%	0.00%	-0.01%
Growth	Private Equity	0.03%	-2.09%	-0.04%	-2.10%	0.01%	-0.25%	-0.06%	-0.30%	-0.08%	0.00%	0.00%	-0.08%	-0.03%	0.00%	0.00%	-0.03%
Growth	Private Credit	0.00%	-0.05%	0.00%	-0.06%	-0.01%	-0.29%	-0.03%	-0.33%	-0.01%	0.00%	0.00%	-0.01%	0.00%	0.00%	0.00%	0.00%
Growth	Private Real Estate	0.06%	-0.43%	0.06%	-0.32%	0.12%	0.01%	0.00%	0.13%	-0.01%	0.00%	0.00%	-0.01%	0.06%	0.00%	0.00%	0.06%
Growth	Risk Parity	-0.29%	0.00%	0.22%	-0.07%	-0.40%	0.00%	0.42%	0.02%	-0.16%	0.00%	-0.08%	-0.23%	-0.24%	0.00%	0.37%	0.14%
Diversifyir	n:Diversifying	0.13%	-0.05%	0.02%	0.10%	0.22%	-0.04%	0.01%	0.19%	0.16%	0.08%	-0.03%	0.21%	0.06%	-0.04%	0.01%	0.04%
Liquidity	Liquidity	0.20%	0.04%	-0.01%	0.23%	0.20%	0.05%	0.00%	0.25%	0.16%	-0.01%	0.00%	0.16%	0.32%	0.07%	-0.02%	0.37%
Cash	Cash	-0.14%	0.00%	0.00%	-0.13%	-0.13%	0.00%	0.00%	-0.13%	-0.08%	0.00%	0.00%	-0.08%	-0.10%	0.00%	0.00%	-0.10%
Overlay	Overlay	-0.03%	0.00%	0.08%	0.05%	-0.09%	0.00%	0.23%	0.14%	-0.04%	0.00%	0.04%	0.00%	-0.06%	0.00%	0.19%	0.12%
Total	o vena,	-0.04%	-2.28%	0.32%	-2.00%	-0.15%	-0.38%	0.65%	0.12%	-0.02%	-0.25%	-0.06%	-0.32%	0.06%	0.29%	0.56%	0.92%
Total		0.0470	2.20/0	0.5270	2.0070	0.1370	0.3070	0.0370	0.12/0	0.0270	0.23/0	0.0070	0.3270	0.0070	0.2370	0.90%	0.3270
			Period 1:	O2 2010		<u> </u>	Period 1:	04 2010		1	Period 1:	01 2020			Period 1: C	22 2020	
Bucket	Asset Class	Allocation		Interaction	Total	Allocation		Interaction	Total	Allocation		Interaction	Total	Allocations			Total
Growth	Domestic Equity	0.02%	-0.14%	-0.01%	-0.13%	0.03%	-0.19%	-0.01%	-0.18%	-0.07%	-0.25%	0.01%	-0.32%	0.03%	0.17%	0.00%	0.14%
Growth	International Equit		-0.23%	0.01%	-0.22%	-0.03%	0.31%	-0.01%	0.27%	0.08%	-0.11%	0.01%	-0.03%	-0.17%	0.36%	-0.04%	0.15%
Growth	Global Equity	0.03%	0.08%	-0.01%	0.09%	-0.13%	-0.20%	0.05%	-0.28%	0.36%	0.66%	-0.16%	0.85%	-0.24%	0.18%	-0.01%	-0.08%
Growth	High Yield	0.00%	0.01%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	-0.01%	0.04%	0.01%	0.04%	0.01%	-0.07%	-0.01%	-0.07%
Growth	Core Real Estate	-0.01%	0.00%	0.00%	-0.01%	0.01%	0.00%	0.00%	0.01%	0.03%	0.02%	0.00%	0.05%	-0.01%	0.00%	0.00%	-0.01%
Growth	Private Equity	0.02%	-0.40%	-0.02%	-0.40%	-0.01%	-0.01%	0.00%	-0.01%	0.10%	-0.79%	-0.04%	-0.74%	-0.23%	1.94%	0.09%	1.80%
Growth	Private Credit	0.00%	0.04%	-0.01%	0.03%	-0.01%	-0.07%	-0.01%	-0.09%	-0.06%	0.62%	0.16%	0.72%	0.08%	-0.67%	-0.26%	-0.85%
Growth	Private Real Estate	0.00%	-0.02%	0.00%	-0.02%	0.02%	-0.03%	0.00%	0.00%	-0.09%	0.07%	-0.02%	-0.03%	0.04%	-0.25%	0.01%	-0.21%
Growth	Risk Parity	-0.05%	0.00%	0.15%	0.09%	-0.21%	0.00%	0.08%	-0.13%	0.42%	0.00%	-0.48%	-0.06%	-0.30%	0.00%	0.36%	0.06%
Diversifyir	n{Diversifying	-0.01%	0.05%	-0.01%	0.03%	0.08%	0.01%	0.00%	0.08%	-0.21%	-0.48%	0.12%	-0.58%	0.13%	-0.05%	0.01%	0.09%
Liquidity	Liquidity	0.03%	0.04%	0.00%	0.07%	0.08%	-0.02%	0.00%	0.06%	-0.33%	-0.36%	0.05%	-0.64%	0.09%	0.31%	-0.03%	0.38%
Cash	Cash	-0.01%	0.00%	0.01%	0.00%	-0.06%	0.00%	0.01%	-0.05%	0.19%	0.00%	0.01%	0.20%	-0.12%	0.00%	0.01%	-0.11%
Overlay	Overlay	0.00%	0.00%	0.00%	0.00%	-0.01%	0.00%	0.13%	0.12%	0.04%	0.00%	-0.37%	-0.33%	-0.03%	0.00%	0.15%	0.13%
Total		-0.01%	-0.59%	0.12%	-0.48%	-0.25%	-0.19%	0.25%	-0.20%	0.45%	-0.59%	-0.75%	-0.88%	-0.79%	1.92%	0.28%	1.42%

Most of the periods appear reasonably varied with no persistent pattern of out or under performance.

Even period 4
appears
somewhat
random with 3
quarters of under
performance for
international
equity viewed as
unfortunate but
not a persistent
pattern over the
longer period.

**CCCERA** 

12

**Performance Attribution** 

## Updated with 3Q results

We added the third quarter to the analysis as it was made available, and as can be seen here, the performance difference relative to policy has decreased significantly across asset classes.

		Period	1: 7/1/201	19 - 6/30/20	020	Period	2: 7/1/2020	) - 12/31/2	2020	Period	3: 1/1/202	21 - 6/30/20	021	Period 4: 7/1/2021 - 6/30/2022				Period 5: 7/1/2022 - 9/30/22			
Bucket	Asset Class	AllocationS	election Ir	nteraction	Total	AllocationS	election In	teraction	Total	Allocation 9	Selection Ir	nteraction	Total	AllocationS	Selection I	nteraction	Total	Allocation S	Selection In	teraction	Total
Growth	Domestic Equity	-0.06%	-0.45%	-0.02%	-0.53%	0.07%	0.22%	0.02%	0.31%	0.13%	-0.11%	-0.04%	-0.02%	0.06%	-0.69%	0.03%	-0.60%	-0.08%	0.06%	0.01%	-0.01%
Growth	International Equity	-0.11%	0.28%	-0.03%	0.14%	-0.06%	0.52%	0.01%	0.47%	0.02%	0.47%	0.04%	0.53%	-0.13%	-0.80%	-0.02%	-0.95%	0.05%	0.05%	-0.01%	0.10%
Growth	Global Equity	0.08%	0.79%	-0.16%	0.71%	-0.08%	-0.24%	0.03%	-0.30%	-0.02%	-0.42%	0.02%	-0.43%	-0.11%	-0.25%	-0.02%	-0.38%	-0.02%	0.09%	0.00%	0.08%
Growth	High Yield	-0.01%	-0.01%	0.00%	-0.02%	0.00%	-0.01%	0.00%	-0.01%	-0.01%	0.00%	0.00%	-0.02%	0.04%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.00%
Growth	Core Real Estate	0.02%	0.03%	0.00%	0.04%	0.00%	0.00%	0.00%	0.01%	-0.03%	0.01%	0.00%	-0.02%	-0.10%	0.08%	0.00%	-0.02%	-0.02%	0.03%	0.00%	0.01%
Growth	Private Equity	-0.10%	0.56%	0.02%	0.48%	0.05%	-2.53%	-0.10%	-2.58%	-0.12%	0.00%	0.00%	-0.12%	0.18%	0.00%	0.00%	0.18%	-0.03%	0.00%	0.00%	-0.03%
Growth	Private Credit	0.00%	0.03%	-0.10%	-0.07%	-0.01%	-0.37%	-0.03%	-0.40%	-0.01%	0.00%	0.00%	-0.01%	0.03%	0.00%	0.00%	0.03%	0.05%	0.00%	0.00%	0.05%
Growth	Private Real Estate	-0.04%	-0.22%	0.00%	-0.27%	0.19%	-0.46%	0.06%	-0.21%	0.05%	0.00%	0.00%	0.05%	-0.49%	0.00%	0.00%	-0.49%	-0.11%	-0.01%	0.00%	-0.12%
Growth	Risk Parity	-0.08%	0.00%	0.04%	-0.04%	-0.73%	0.00%	0.68%	-0.05%	-0.41%	0.00%	0.30%	-0.11%	-0.18%	0.03%	0.02%	-0.12%	0.00%	-0.05%	0.00%	-0.05%
Diversifyir	ղ Diversifying	-0.05%	-0.53%	0.13%	-0.45%	0.37%	-0.10%	0.04%	0.31%	0.24%	0.04%	-0.02%	0.26%	0.05%	-0.34%	-0.01%	-0.30%	0.00%	0.13%	0.00%	0.13%
Liquidity	Liquidity	-0.17%	-0.09%	0.03%	-0.23%	0.43%	0.09%	-0.01%	0.51%	0.50%	0.06%	-0.02%	0.55%	-0.18%	-0.02%	0.01%	-0.19%	0.09%	0.00%	-0.02%	0.08%
Cash	Cash	0.02%	0.00%	0.04%	0.06%	-0.29%	0.00%	0.01%	-0.28%	-0.19%	0.00%	0.01%	-0.18%	0.13%	0.00%	0.02%	0.15%	-0.05%	0.00%	0.01%	-0.03%
Overlay	Overlay	0.00%	0.00%	-0.13%	-0.13%	-0.13%	0.00%	0.33%	0.20%	-0.11%	0.00%	0.23%	0.12%	0.03%	0.00%	-1.15%	-1.12%	0.04%	0.00%	-0.17%	-0.13%
	Total	-0.50%	0.39%	-0.20%	-0.32%	-0.19%	-2.86%	1.02%	-2.03%	0.05%	0.04%	0.52%	0.61%	-0.66%	-1.99%	-1.11%	-3.77%	-0.06%	0.30%	-0.16%	0.08%



## Conclusions

The three primary contributors to recent underperformance have been identified and evaluated and are not considered systemic issues that need to be addressed.

- Private equity benchmarking this came about as a result of the change in benchmarking methodology in the middle of 2021 during a period, when there was a significant difference between the performance of the two benchmarking approaches. To provide the Board with additional perspective, the current policy index will be augmented with an "adjusted" policy index that incorporates the current private markets benchmark approach into historical policy index performance.
- International equity managers the outsized impact came from combined underperformance of active managers over three consecutive quarters. Longer-term performance implies this was a random grouping of consecutively underperforming quarters, and at this point, we don't believe corrective action is necessary.
- Overlay program this program is designed to reduce cash drag by investing residual portfolio cash in line with the portfolio's high-level risk exposures, utilizing equity and US Treasury futures contracts. While this has been a detractor to overall performance in the short-term, it is expected to be a contributor over the long-term.





## **Memorandum**

Date: January 25, 2023

To: CCCERA Board of Retirement

From: Timothy Price, Chief Investment Officer

Subject: Update on Private Equity Allocations

### Overview

CCCERA recently made commitments to three private equity funds using the delegated authority granted in the Investment Policy Statement. A brief description of each fund/strategy is included below. This memo is for informational purposes only and no action is required from the Board at this time.

## **Investment Policy Statement**

The CCCERA Investment Policy Statement adopted by the Board on September 28, 2016 (amended on April 24, 2019 and May 26, 2021) outlines the hiring process for new investment mandates. Commitments up to a \$150 million per strategy may be approved via a staff review process, while mandates above this threshold require approval by the Board.

## **Hellman & Friedman XI**

Hellman & Friedman Capital Partners XI is a large buyout private equity fund focused on control investments in the U.S. and Europe in the following primary sectors: technology; healthcare; financial services; consumer & retail; and business & information services. The Fund is targeting to raise \$23B and expects to make ~10-15 investments, primarily in mature companies with recurring revenue and cash flows. CCCERA committed \$100 mm to this fund.

## Symphony Technology Group VII

STG targets control transactions in middle-market, value-oriented enterprise software and software-enabled service businesses. The strategy is operationally intensive, with the value creation thesis centered on operational improvements and bolt on activities to increase revenue. STG is raising \$3 billion for Symphony Technology Group VII ("STG VII"). The Fund will invest in 14-16 platforms in North America and Europe. CCCERA committed \$50 mm to this fund.

## **GTCR XIV**

GTCR XIV is a private equity fund focused on control investments in the U.S. in the following primary sectors: healthcare, information services and technology, financial services and technology, and business services. The Fund is targeting to raise \$9.25B and expects to make  $$^15-20$  platform investments with initial equity checks of \$\$00 mm to this fund.



### **MEMORANDUM**

Date: January 25, 2023

To: CCCERA Board of Retirement

From: Gail Strohl, Chief Executive Officer

Subject: Consider and take possible action to adopt a cost-of-living increase for retirees as of

April 1, 2023.

\_\_\_\_

In accordance with Government Code §§31870, 31870.1 and 31870.3, the Board must determine the annual cost-of-living adjustments (COLAs) to be effective April 1, 2023.

### **Determination of COLA**

Based on the statutes noted above, the increase or decrease of the retiree allowances must "approximate to the nearest one-half of 1 percent, the percentage of annual increase or decrease in the cost of living as of January 1<sup>st</sup> of each year as shown by the then current Bureau of Labor Statistics Consumer Price Index for All Urban Consumers for the area in which the county seat is situated." The only difference in the three COLA statutes that apply to CCCERA members is that the annual maximum adjustment is either 2%, 3%, or 4% depending on which section is applicable.

The consumer price index values used by CCCERA are the December values from the San Francisco-Oakland-Hayward, California table. The increase in the index from December 2021 to December 2022 is 4.88%.

When this value is greater than the annual allowable maximum increase, the excess above the allowance increase is accumulated or "banked". When the value is less than the annual allowable maximum increase, retirees with sufficient bank will receive the maximum allowable increase and have their banks reduced accordingly.

The attached Segal letter shows the determination of the consumer price index increase and the annual adjustment retirees will receive depending on Tier and bank. The letter also shows the adjustments to the banks.

### Recommendation

Consider and take possible action to adopt a cost-of-living increase for retirees as of April 1, 2023.



Andy Yeung, ASA, MAAA, FCA, EA Vice President & Actuary T 415.263.8283 ayeung@segalco.com 180 Howard Street Suite 1100 San Francisco, CA 94105-6147 segalco.com

January 17, 2023

Ms. Gail Strohl
Chief Executive Officer
Contra Costa County Employees' Retirement Association
1200 Concord Avenue, Suite 300
Concord, CA 94520

Re: Contra Costa County Employees' Retirement Association Cost-of-Living Adjustments (COLA) as of April 1, 2023

Dear Gail:

We have determined the cost-of-living adjustments for the Association in accordance with Sections 31870.1, 31870.3 and 31870, as provided in the enclosed exhibits.

The cost-of-living factor to be used by the Association on April 1, 2023 is determined by comparing the December CPI for the San Francisco-Oakland-Hayward Area (with 1982-84 as the base period), as published by the Bureau of Labor Statistics (BLS), in each of the past two years. The ratio of the past two December indices, 331.222 in 2022 and 315.805 in 2021, is 1.0488. The County Law sections cited above indicate that the resulting percentage change of 4.88% should be rounded to the nearest one-half percent, which is 5.0%.

Please note the above cost-of-living adjustments calculated using established procedures for CCCERA may result in adjustments different from those calculated using alternative procedures by other systems.

The actual cost-of-living adjustment is dependent on tier. The CPI adjustment to be applied on April 1, 2023 is provided in Column (4) of the enclosed exhibits. The COLA bank on April 1, 2023 is provided in Column (5).

Please give us a call if you have any questions.

Sincerely,

Andy Yeung, ASA, MAAA, FCA, EA

Vice President & Actuary

bts/hy Enclosures

cc: Ms. Christina Dunn

## Contra Costa County Employees' Retirement Association Cost-Of-Living Adjustment

As of April 1, 2023

(1)

April 1, 2022 April 1, 2023 CPI Accumulated CPI CPI Accumulated Carry-over\*\*\*\* Retirement Date Rounded\*\* Used\*\*\*

(2)

Change\*

(3)

(4)

(5)

Tier 1, Tier 3 (service retirement only), Tier 4 (3% COLA), Tier 5 (3%/4% COLA and service retirement only), Safety Tier A and Safety Tier D

Carry-over

Section 31870.1

Maximum Annual COLA			3.0%				
On or Before	e 3/31/19	82	10.500%	4.88%	5.0%	3.0%	12.500%
04/01/1982	to	03/31/1983	4.027%	4.88%	5.0%	3.0%	6.027%
04/01/1983	to	03/31/2017	1.500%	4.88%	5.0%	3.0%	3.500%
04/01/2017	to	03/31/2022	1.000%	4.88%	5.0%	3.0%	3.000%
04/01/2022	to	03/31/2023		4.88%	5.0%	3.0%	2.000%

Based on ratio of December 2022 CPI to December 2021 CPI for the San Francisco - Oakland - Hayward Area.



Based on CPI change rounded to nearest one-half percent.

These are the cost-of-living adjustment factors to be applied on April 1, 2023.

These are the carry-over of the cost-of-living adjustments that have not been used on April 1, 2023.

## Contra Costa County Employees' Retirement Association Cost-Of-Living Adjustment

As of April 1, 2023 (1)

(2)

(3)

(4)

(5)

April 1, 2022 April 1, 2023 CPI CPI CPI Accumulated Accumulated Rounded\*\* <u>Us</u>ed\*\*\* Carry-over\*\*\*\* Retirement Date Carry-over Change\* Tier 2, Tier 3 (disability retirement only) and Tier 5 (3%/4% COLA and disability retirement only) Section 31870.3 Maximum Annual COLA 4.0% 4.0% 04/01/1984 03/31/2022 0.0% 5.0% 1.0% to 4.88% 04/01/2022 03/31/2023 4.0% 1.0% to 4.88% 5.0%



<sup>\*</sup> Based on ratio of December 2022 CPI to December 2021 CPI for the San Francisco - Oakland - Hayward Area.

<sup>\*\*</sup> Based on CPI change rounded to nearest one-half percent.

<sup>\*\*\*</sup> These are the cost-of-living adjustment factors to be applied on April 1, 2023.

<sup>\*\*\*\*</sup> These are the carry-over of the cost-of-living adjustments that have not been used on April 1, 2023.

## Contra Costa County Employees' Retirement Association Cost-Of-Living Adjustment As of April 1, 2023

(1) (2)

(3)

(4)

(5)

Retireme	nt Date		April 1, 2022 Accumulated Carry-over	CPI Change*	CPI Rounded**	CPI Used***	April 1, 2023 Accumulated Carry-over****
Tier 4 (2% COLA), Tier 5 (2	2% COL/	A), Safety Tier C	and Safety Tier E				
Section 31870 Maximum Annual COLA			2.0%				
Maximum Annual COLA			2.070				
04/01/2007	to	03/31/2012	10.5%	4.88%	5.0%	2.0%	13.5%
04/01/2012	to	03/31/2014	9.5%	4.88%	5.0%	2.0%	12.5%
04/01/2014	to	03/31/2015	9.0%	4.88%	5.0%	2.0%	12.0%
04/01/2015	to	03/31/2016	8.5%	4.88%	5.0%	2.0%	11.5%
04/01/2016	to	03/31/2017	7.5%	4.88%	5.0%	2.0%	10.5%
04/01/2017	to	03/31/2018	6.0%	4.88%	5.0%	2.0%	9.0%
04/01/2018	to	03/31/2019	5.0%	4.88%	5.0%	2.0%	8.0%
04/01/2019	to	03/31/2020	2.5%	4.88%	5.0%	2.0%	5.5%
04/01/2020	to	03/31/2022	2.0%	4.88%	5.0%	2.0%	5.0%
04/01/2022	to	03/31/2023		4.88%	5.0%	2.0%	3.0%

<sup>\*</sup> Based on ratio of December 2022 CPI to December 2021 CPI for the San Francisco - Oakland - Hayward Area.



<sup>\*\*</sup> Based on CPI change rounded to nearest one-half percent.

<sup>\*\*\*</sup> These are the cost-of-living adjustment factors to be applied on April 1, 2023.

<sup>\*\*\*\*</sup> These are the carry-over of the cost-of-living adjustments that have not been used on April 1, 2023.





# RETIREMENT APPLICATION PROCESS IMPROVEMENT PROJECT

January 25, 2023

## **CCCERA's Commitment to New Retirees in 2023**

- CCCERA staff will clearly and frequently communicate how CCCERA will help you transition smoothly to receiving retirement payments and what you need to provide, by when, to allow us to make that happen for you.
- ✓ You will have access to an assigned CCCERA Retirement Counselor (with a back-up) to guide you through the process and answer your questions.
- ✓ If you pre-elect your *payment option*, you can expect to receive your first CCCERA retirement payment no more than 65 days from your final employer payment.
- ✓ If you opt to elect your payment option at a later time, you will receive an options payment letter to review. When signed and returned to us you will receive your first CCCERA payment no more than 15 days from CCCERA's receipt of your option election form.



## Retirement Application Process Improvement Project Team

- Disability Specialist/Senior Retirement Counselor
- Retirement Services Supervisor Active members
- Member Services Supervisor
- Information Systems Programmer Analyst
- Retirement Services Supervisor Retired members

- Member Services Manager
- Accounting Manager
- Deputy Chief Executive Officer
- Retirement Services Manager



## Retirement Application Process Improvement Project

- Established Project Mission and Team
- II. Reviewed the "Before" Process: Analyzed the current process and identified what needed to change to achieve the project mission
- III. Created a "Redesigned" Retirement Application Process: Designed a new way of operating that will allow us to meet our 2023 commitment to members
- IV. Established a Performance Measurement: The scorecard we will use to monitor process performance and help us anticipate challenges
- V. Reviewed possible risks and mitigations: What could go wrong and how we will respond
- VI. Created an Implementation Plan and reviewed with the management team



## Retirement Application Process Improvement Project Roadmap

- ~85 Days from Launch to Wrap-Up
- 6 Workshop Days for Project Team Members

Post-Workshop Individual Assignments

- Project Planning
- 1 DEFINE The "As Is" Process
- MEASURE "In-Process" Performance
- 3 ANALYZE Constraints
- 4 NNOVATE Lean Process Design
- <u>COMPLETE Process Redesignand Activation Plans</u>
- <u>CONTROL Transition and</u> Process Performance



## CCCERA Retirement Application Process How to Get Better?

Break through five key constraints holding back consistently better and predictable performance ...

- Too many incomplete applications at submission
- Multiple logs to track applications and processing
- Too many steps in the process
- Delays waiting for members to return their Option Election Form
- Delay receiving Contra Costa County payroll data



## **CCCERA** Redesigned Retirement Application Process

PROCESS MISSION

Provide members with a predictable transition from employment to retirement income that adds no additional financial burden to the retiree by making an accurate payment in the shortest time possible after receipt by CCCERA of the retiree's final payroll data.

Eligible Members ① Prepare Members ②
Receive
Application &
Confirm
Payment
Preference

Retrieve Missing Info

(3)

(4)
Receive &
Enter Final
Contribution
Data

©
Calculate &
Verify
Benefit

Post to Payroll

6

Retirees on Payroll





Enhanced member communication & education to increase percentage of application submitted "ready to calculate"





Member choice at application submittal to elect Unmodified Payment or wait for Options Letter after Benefit finalized



③ edic

Dedicated
Intake
Counselor
assigned to
clear missing
data/errors
within specific
deadline



4

New
Agreement
with Contra
Costa County
for earlier
transmittal of
Contribution
Report



Blacked-Out days
each month to
ensure Finals
Counselor/
Verifier
availability to
process
completed
applications



6
Scheduled
Monthly Retiree
Payroll Dates with
option for off-

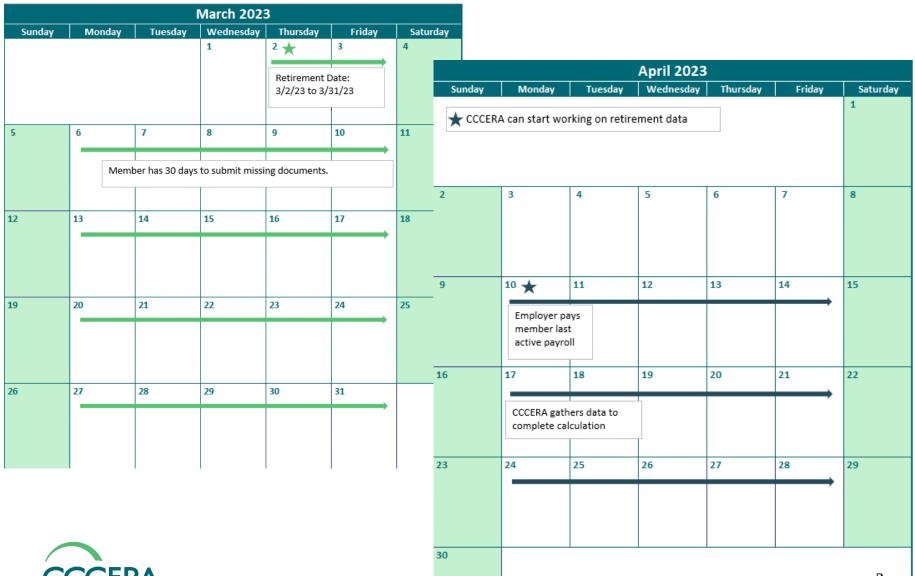
option for offcycle to accommodate Option Letter applications



Master Retirement Applications Log, Schedule, and Scorecard

65 days or faster from Final Employer Payroll to First Retiree Payment for pre-elected options and within 15 days or faster from receipt of signed Option Form

## **Redesigned Retirement Application Process Scheduling Model: March Retirees Example**





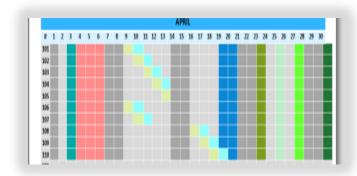
## **Redesigned** Retirement Application Process Scheduling Model: March Retirees Example (Cont'd)





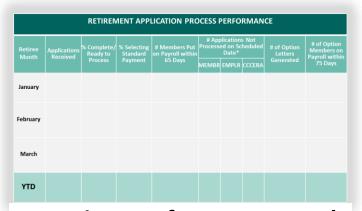
## **Redesigned** Retirement Application Performance Reporting

## **Master Log**



...Review weekly for "Red Flag" applications and take action to get back on schedule





...Review performance trends.

Analyze causes, and make process, staffing, or policy adjustments as needed.



## **Redesigned Retirement Application Deployment Risks & Mitigation Strategies**

## **Potential Risk:**

1. Pension System Project time demands on staff processing retirement applications

2. Insufficient Retirement Services
Staff to meet application
volume

## **Mitigation Strategies:**

- Establish "Black-out Calendar" for days of month when Finals Counselors/Sup/Payroll Counselors processing applications
- ✓ Work with Pension System Project Manager to adjust Pension System Schedule to not jeopardized milestone achievement.
- ✓ Open positions from 2022 on schedule to be filled by 1/31/23
- ✓ Staffing level and back-ups matched to anticipated peak volume month
- ✓ If unprecedented surge happens, Plan B in effect, shifting Active Counselors to support applications and suspending running of estimates until surge processed



## **Redesigned Retirement Application**

## **Deployment Risks & Mitigation Strategies** (Cont'd)

## **Potential Risk:**

- 3. Extended delays receiving accurate Employer Payroll
- 4. Higher than expected number of members submitting incomplete applications and requiring extensive follow-up to retrieve missing docs and info

## **Mitigation Strategies:**

- Calculate Final retirement calculations based on data in Pension System.
- Reconcile when data feed resumed
- ✓ Temporarily Shift Active Counselor time to Intake Counselor duties
- Analyze long-term need for adding an additional Intake Counselor position





## Closing Remarks and Questions?

## MARCHING FORWARD

**GENERAL ASSEMBLY 2023** 

MARCH 4 - 7, 2023 > MONTEREY, CA

The California Association of Public Retirement Systems (CALAPRS) invites you to attend the annual **General Assembly, March 4 - March 7, 2023 at the Monterey Marriott!** The General Assembly is an educational conference for retirement system trustees, senior staff, and our annual sponsors. Attendees will learn from experts and peers, while getting the opportunity to network with colleagues.

## REGISTRATION

Register online at www.calaprs.org/events

- Retirement System Fee: \$250/person
- **Sponsor Fee:** \$2,500 annual sponsorship includes registration for 2 representatives at no additional cost.

## LODGING

CALAPRS has arranged for a discounted room rate at the meeting hotel, the Monterey Marriott, 350 Calle Principal, Monterey, CA for the duration of the meeting.

Room Rate: \$234/night, plus taxes and fees

**Book Online:** bit.ly/GA2023\_Hotel

By Phone: 1-877-901-6632 and reference "CALAPRS"

**Cut-off Date:** The room rate is available until February 7, 2023 or until the block is sold out, whichever comes first.

## HEALTH & SAFETY

CALAPRS is dedicated to providing a safe event experience for all participants involved including attendees, sponsors, staff, and guests. CALAPRS will conduct the General Assembly as advised by government (local, state, and national) regulations, CDC recommendations, and venue requirements at the time of the event. Read the fully in-person event policy here: www.calaprs.org/page/eventpolicy

## CALAPRS GENERAL ASSEMBLY | PROGRAM

**DAY 01** 

SATURDAY, MARCH 4 4:00 - 6:00 PM Registration Open

**DAY 02** 

SUNDAY, MARCH 5 9:30 AM - 5:00 PM Registration Open

10:00 AM - 12:00 PM

AB1234 Ethics for Trustees | Ashley K. Dunning, Partner, Co-Chair Public Pensions & Investment Group, Nossaman LLP

2:00 - 2:15 PM

**Opening Remarks** | Johanna Shick, CEO, SJCERA and General Assembly Conference Chair; and Dave Nelsen, CEO, ACERA and CALAPRS President

2:15 - 3:15 PM

NASRA Statistics | Keith Brainard, Research Director, National Association of State Retirement Administrators

3:15 - 3:30 PM Networking Break

3:30 - 4:30 PM

**Legal Mock Trial** | Maytak Chin, Partner and Harvey Leiderman, Partner, Reed Smith LLP

7:00 - 9:30 PM

Strolling Dinner at the Monterey Bay Aquarium | System attendees may bring a guest to the Strolling Dinner. Please contact info@calaprs.org to add a guest.

DAY 03 MONDAY, MARCH 6 7:00 AM - 4:00 PM Registration Open

7:15 - 8:15 AM Breakfast

8:15 - 8:30 AM

**Opening Remarks** | Johanna Shick, CEO, SJCERA and General Assembly Conference Chair

8:30 - 9:30 AM

**Searching for a Soft Landing in 2023** | Brian Nick, CAIA, Chief Investment Strategist, Nuveen

9:30 – 10:00 AM Networking Break

10:00 - 11:00 AM

**Geopolitical Risks Not Yet Resolved In 2023** | Matt Gertken, Chief Strategist, BCA Research

11:00 AM - 12:00 PM

Investments in 2023 - What You Need to Know | Toner, CFA, Chief Investment Officer, Verus

12:00 - 1:30 PM

Lunch

1:30 - 2:30 PM

Robotic Process Automation | Robert Pucci, Executive Director of Intelligent Automation. State of Tennessee

2:30 - 3:00 PM **Networking Break** 

3:00 - 4:00 PM

Tracking Productivity & Performance Measures | CalPERS

5:00 - 6:00 PM

Networking Reception (Ferrantes Bayview Room of the Monterey Marriott)

## **DAY 04** TUESDAY.

MARCH 7

7:30 - 11:00 AM **Registration Open** 

7:30 - 8:30 AM Breakfast

8:30 - 10:00 AM

Digital Opportunities Panel: Online Retirement Process, Trustee Electronic Elections, and Multi-Factor Authentication/ID-ME | Danielle Couture, Communications Manager, SBCERA; Suzanne Jenike, Assistant CEO External Operations, OCERS; and Tim Taylor, Enterprice Solutions Development Division Chief. CalPERS

10:00 - 10:15 AM **Networking Break** 

10:15 - 11:00 AM

LDROM & The Impact of Inflation on Liabilities | Todd Tauzer, Vice President & Actuary, Segal

11:00 - 11:15 AM

Closing Remarks | Johanna Shick, CEO, SJCERA and General Assembly Conference Chair

Thank you to our 2023 Steve Delaney, CEO, OCERS General Assembly **Planning** 

Committee

Johanna Shick, CEO, SJCERA (Chair)

Scott Hood, CEO, SamCERA Greg Levin, CPA, CEO, SBCERS

Dave Nelsen, CEO, ACERA

Anthony Suine, Deputy Executive Officer, Communications & Stakeholder

Relations, CalPERS

## Portfolio Concepts and Management

Monday, May 1 - Thursday, May 4, 2023 Wharton, Philadelphia, PA PROGRAM DETAILS HOTEL/TRAVEL

Meeting Date
01/25/2023
Agenda Item
#8b.

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IFEBP > Education > Certificate Programs > Wharton > Portfolio Concepts and Management

Portfolio management is a complex task with numerous decisions on how to allocate money in your fund. Portfolio Concepts and Management provides the core principles of portfolio theory and investment performance measurement, offering practical tools and experiences to help you make reliable investment management decisions. This program offers lecture/discussion sessions, problem solving exercises and small-group case study sessions in a 3½-day format. Grow confidence in your ability to evaluate investments with a broad, fundamental understanding of investment products and practices.

## Tentative Outline

- · Introduction and Overview of Financial Assets
- · Fundamentals of Portfolio Theory
- · Performance Evaluation
- · Fundamentals of Valuation

- · Managing Pensions in a Risky Global Environment
- · Macroeconomic Issues and Financial Markets
- · Asset Allocation and Impacts of Risk on Return

## **Benefits of Attending**

- · Learn the fundamental concepts needed for effective portfolio oversight.
- · Obtain a solid grounding in the principles of modern portfolio theory.
- · Gain practical experience needed to make sound investment management decisions.
- · Apply what you have learned in an interactive case study.
- · Learn from world-class faculty who are skilled educators and researchers, award-winning authors and leading authorities.

## Who Should Attend

This program is intended for those who have little experience with investment-related course work.

Fiduciaries from both defined benefit and defined contribution plans who represent various industries, sizes and geographic areas (United States and Canada), including

- · Multiemployer and public plan trustees
- · Administrators and fund staff
- Human resources and benefits professionals
- · Corporate officers and executives
- Finance personnel
- · Investment professionals

## Portfolio Concepts and Management

Monday, May 1 - Thursday, May 4, 2023 Wharton, Philadelphia, PA



## **Speakers**



Gordon M. Bodnar, Ph.D.

Morris W. Offit Professor of International Finance and Director of the International Economics Program, Johns Hopkins School of Advanced International Studies (SAIS); Lecturer The Wharton School



Geoffrey Gerber, Ph.D.

President and Chief Investment Officer TWIN Capital Management, Inc.



Olivia S. Mitchell, Ph.D.

Director, Pension Research Council and Boettner Center for Pensions and Retirement Research The Wharton School, University of Pennsylvania

## **Continuing Education**



Educational sessions at this program may qualify for CEBS continuing professional education (CPE) credit. Visit www.cebscpe.org for more information.

Continuing Education credit for additional professions and designations MAY be available for attendance at live sessions. You must register for the program and request CE credit at least 60 days prior to the beginning of the program so that the Foundation can seek preapproval from the governing agency.

