

SCERA Actuarial Board Meeting

Actuarial Report Review May 4, 2023



SCERA Actuarial Analysis of Plan Experience

SCERA Actuarial Analysis of Financial Experience						
(K¢)	2022	2021	2020	2019	2018	5 Year
(K\$)	2022					
Beginning of the Year UAAL Liability (Surplus)	244546	282715	332031	404732	359557	
Source of Actuarial (Gain) Loss:						
Compensation Increase Greater/(Less) than Expected	12509	(5243)	17286	(34651)	11293	1194
Investment Experience recognized	39826	(99099)	(41110)	(32718)	13629	(119472)
Other Experience	(1211)	(7266)	(983)	(2786)	661	(11585)
(Greater)/Less than Expected Contributions	4298	(1976)	(255)	12332	(493)	13906
Composite (Gain) Loss for the Year - Total	55422	(113584)	(25062)	(57823)	25090	(115957)
Other Items Impacting UAAL:						
Assumption Change (Economic and Demographic)		96768			31798	128566
Interest Accrual on UAAL Balance	15353	18586	22003	27009	24876	107827
County's Additional UAAL Payment	(5795)	(1873)	(7128)			(14796)
Expected UAAL Contribution Payment	(37934)	(38066)	(39129)	(41887)	(36589)	(193605)
Other Items Impacting UAAL - Total	(28376)	75415	(24254)	(14878)	20085	27992
End of the Year UAAL Liability (Surplus)	271592	244546	282715	332031	404732	





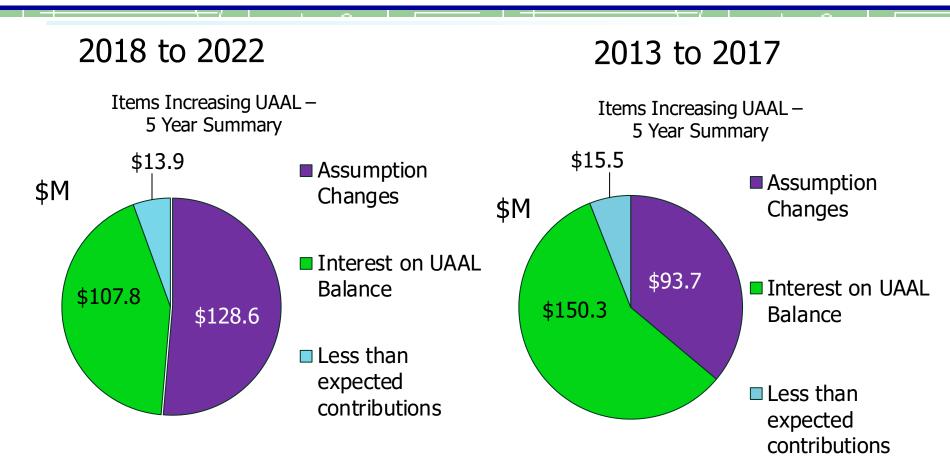
SCERA Actuarial Analysis of Plan Experience

					477	
SCERA Actuarial Analysis of Financial Experience						
						5 Year
(K\$)	2017	2016	2015	2014	2013	Total
Beginning of the Year UAAL Liability (Surplus)	408227	405922	343043	449443	494240	
Source of Actuarial (Gain) Loss:						
Compensation Increase Greater (Less) than expected	4586	5983	(12829)	(64347)	2926	(63681)
Investment Experience recognized	(44256)	891	(3307)	(44167)	(71109)	(161948)
Other Experience	(3890)	(859)	(2546)	(5254)	3491	(9058)
(Greater)/Less than Expected Contributions	4568	4094	(3519)	10343		15486
Composite (Gain) Loss for the Year	(38992)	10109	(22201)	(103425)	(64692)	(219201)
Other Items Impacting UAAL:						
Assumption Changes			93686			93686
Interest Accrual on UAAL Balance	28358	28249	24727	32514	36447	150295
Other			(3661)		(16552)	(20213)
Expected employer/member contributions less Normal Cost	(38036)	(36053)	(29672)	(35489)		(139250)
Other Items Impacting UAAL	(9678)	(7804)	85080	(2975)	19895	84518
End of the Year UAAL Liability (Surplus)	359557	408227	405922	343043	449443	





SCERA Actuarial Experience







SCERA Current Active and Deferred Membership

Active General						
Plan	Number	Avg. Age	Avg. Service			
Plan A Legacy	1391	51.7	16.4			
Plan B PEPRA	2042	41.7	4.2			
Total	3433					

Active Safety							
Plan	Number	Avg. Age	Avg. Service				
Plan A Legacy	365	46.4	16.4				
Plan B PEPRA	305	35.6	4.4				
Total	670						

Total General & Safety Active Plan A 1756 (43%)

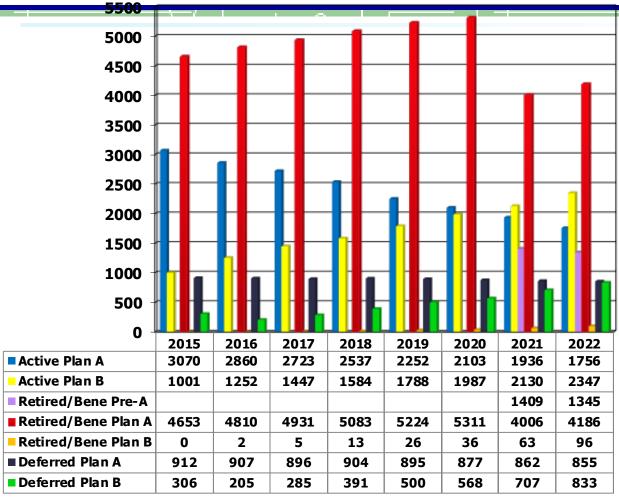
Total General & Safety Active Plan B 2347 (57%)

Deferred (Inactive)							
Plan - General	Number	Avg. Age	Plan - Safety	Number	Avg. Age		
Plan A Legacy	693	50.0	Plan A Legacy	162	46.4		
Plan B PEPRA	726	41.8	Plan B PEPRA	107	32.8		
Total	1419			269			





SCERA Total Membership



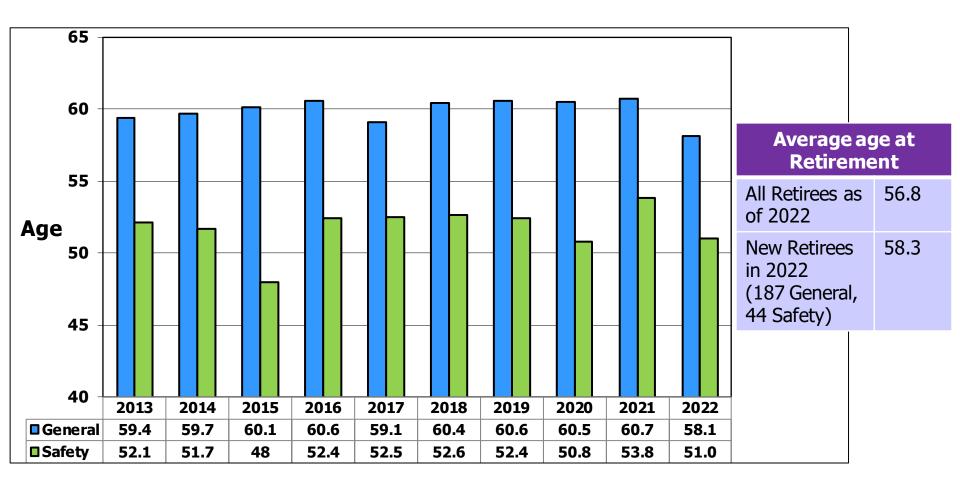
2022 Retirees						
Gen Pre-Plan A	860					
Gen Plan A	3069					
Gen Plan B	78					
Safety Pre-Plan A	337					
Safety Plan A	601					
Safety Plan B	16					
Total	4961					

2022 Beneficiaries						
Pre-Plan A	148					
Plan A	516					
Plan B	2					





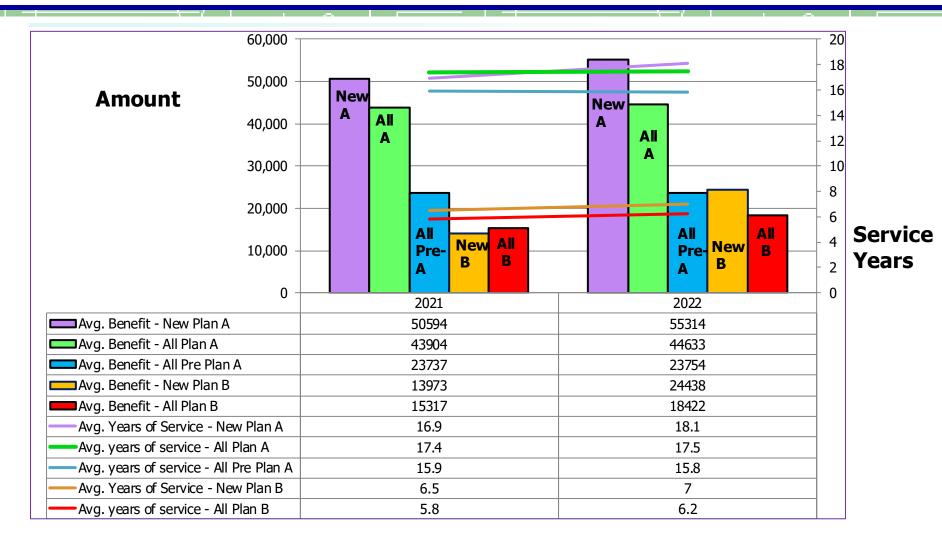
SCERA Retirements - Average Age at Retirement as of 12-31-22







SCERA Average Annual Retirement Benefit 2021 - 2022







SCERA Average and Median Annual Retirement Benefit and Average Service 2022

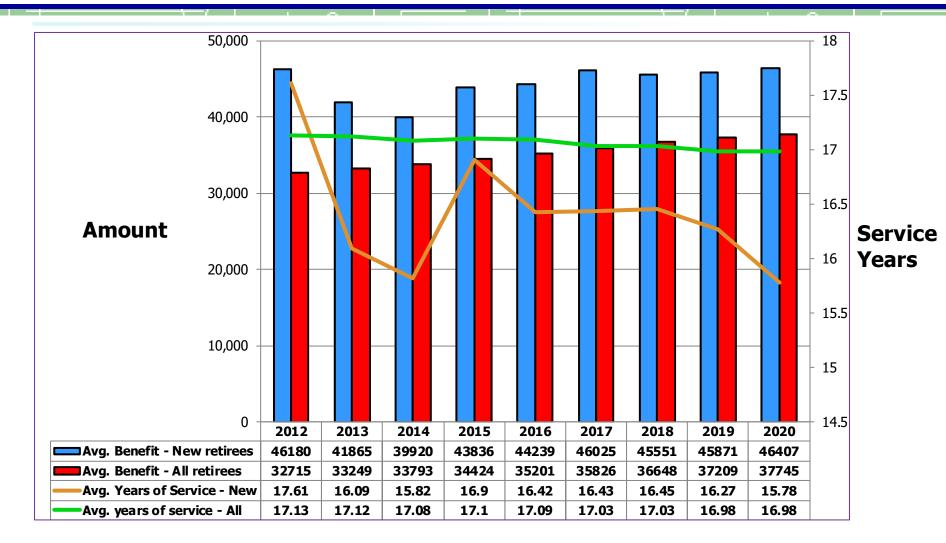
Plan	Number	Average Annual Benefit	Median Annual Benefit	Average Years of Service at Retirement
General Pre- Plan A	860	\$18,405	\$15,338	14.3
General Plan A	3069	\$41,449	\$34,263	17.3
General Plan B	78	\$13,819	\$13,468	6.5
Safety Pre-Plan A	337	\$37,403	\$31,220	16.1
Safety Plan A	601	\$60,892	\$55,796	18.4
Safety Plan B	16	\$40,860	\$45,989	4.8

^{*}Note: Median amounts shown for illustrative purposes. Actuary uses averages in the actuarial valuation which are universally included by other pension systems in valuation reports and as such useful when auditing an actuarial service provider.





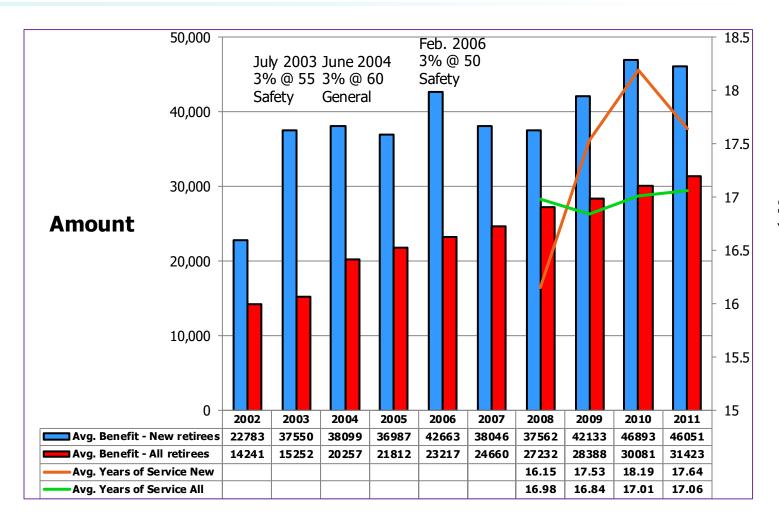
SCERA Average Annual Retirement Benefit 2012 - 2020







SCERA Average Annual Retirement Benefit 2002 - 2011









SCERA Market Value Investment Returns (net of fees) Calendar year-end information

	Annualized Return 12/31/22	Annualized Return 12/31/21	Annualized Return 12/31/20	Annualized Return 12/31/19	Annualized Return 12/31/18
1 Year	-6.18%	16.42%	8.08%	16.27%	-3.3%
3 Year	5.70%	13.52%	6.71%	9.35%	7.0%
5 Year 2018 - 2022	5.76%	10.47%	8.99%	7.66%	5.6%
10 Year 2013 - 2022	7.96%	10.11%	8.51%	8.95%	9.1%
15 Year 2008 - 2022	5.69%	6.75%	6.62%	6.65%	6.3%
20 Year 2003 - 2022	7.52%	7.18%	5.99%	5.54%	5.5%
30 Year 1993 - 2022	7.36%	7.90%	8.15%	8.05%	8.1%

Sourced from Aon Investment Consulting





Market Stabilization Reserve (rounded)

	Inv. Return Surplus (Deficit)	2022 Recognized	2023 Deferred	2024 Deferred	2025 Deferred	2026 Deferred	Total Deferred 2023 to 2026
2018	(290.2M)	(58.0M)	0				0M
2019	231.5M	46.3M	46.3M				46.3M
2020	30.6M	6.1M	6.1M	6.1M			12.2M
2021	316.1M	63.2M	63.2M	63.2M	63.2M		189.6M
2022	(487.2M)	(97.4M)	(97.4M)	(97.4M)	(97.4M)	(97.4M)	(389.7M)
Total red	cognized	(39.8M)					
Total De	eferred Retur	ns					(141.5M)

Note: Positive Recognition Adds To/Negative Recognition Reduces Valuation Value of Assets





SCERA Unfunded Actuarial Accrued Liability Major Impacts

- Benefit Formula Changes:
 3% at 55 (2003); 3% at 60 (2004); 3% at 50 (2006)
- Financial Market Downturn/"Great Recession" (2008)
- Cash Allowance Benefit (2009)
- Actuarial Assumption Changes (economic, demographic in 2005, 2008, 2009, 2010, 2011, 2014, 2017, 2021)

- Pension Obligation Bonds
 - May 2003 \$210M
 - September 2010 \$289M
- Public Employees' Pension
 Reform Act PEPRA (2013)
- County Elimination of Cash Outs in Benefit Calculations (2013, impacted 2012 valuation)
- Additional Unfunded Actuarial Accrued Liability payments (2015, 2020, 2021, 2022 and ongoing)

