



***City Council Study Session
CalPERS Unfunded Pension Liabilities***

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June 20, 2021

CALPERS: Section Overview

MEETING OBJECTIVES

HOW CALPERS WORKS

THE CALPERS CHALLENGE

NOTE: ALL DATA AS OF 2019 (LAST VALUATION DATE)

I. High level overview re CalPERS; factors influencing the City's increasing costs



II. Alternatives for addressing the unfunded liability

III. Way forward

Objectives

The unfunded liability payment to CalPERS is 16% of GF FY 22 expenditure budget, increasing each year for the next 10 years, thereby reducing the City's financial and operational flexibility

Frequently used terms

Actuarial Report

- The formal valuation provided by CalPERS every 2 years. The City is required to disclose its funded status in the notes to financial statements on the pension plan. Last valuation date was 2019

Bases

- Investment gains or losses, benefit enhancements, change in assumptions, and actuarial performance – death, late/early retirement, disability, and termination
- Each base has a FIXED DOLLAR payment schedule – such as loan payment -- with terms ranging from 5 to 20 years

Discount Rate

- CalPERS expected Rate of Return, currently 7.0%. Also, serves as the interest rate to calculate annual UAL payments

Funded Status

- Percentage of CalPERS Retirement Costs funded to date (Goal is 100%)

Normal costs

- Benefits earned in the current year and paid to CalPERS as a percentage of payroll

UAL

- Difference between estimated future benefit payments and market value of assets. Represents unfunded amount or “past due amount” for benefits earned by current employees and retirees.

Defining the Problem

- Unfunded accrued liabilities (“UAL”) (past due payments) are driving up costs for governments
- In the State of California, liabilities are rising dramatically over the next 10 years

Increasing costs are crowding out the City’s ability to fund other basic and necessary services/improvements

The City is facing **additional** increases of \$110M over the next 10 years

First such increase of \$3.5M (a total of \$30M) was paid to CalPERS on July 1

CalPERS expenses



13-13	0.000167	98,094	18	98,096	6,552,704	86.1
13-14	0.000233	98,076	29	98,067	6,493,818	86.1
14-15	0.000308	98,056	34	98,030	6,354,461	86.2
15-16	0.000480	98,022	48	98,939	6,255,213	86.2
16-17	0.000577	98,079	57	98,847	6,186,514	86.2
17-18	0.000684	98,019	68	98,885	6,067,586	86.2
18-19	0.000789	98,881	78	98,813	5,958,881	86.3
19-20	0.000902	98,779	82	98,734	5,859,988	86.3
20-21	0.000964	98,693	88	98,640	5,761,134	86.4
21-22	0.000964	98,620	94	98,608	5,662,485	86.4
22-23	0.000962	98,511	98	98,440	5,563,528	86.5
23-24	0.000967	98,413	98	98,364	5,464,486	86.5
24-25	0.000962	98,316	97	98,267	5,365,101	86.6
25-26	0.000960	98,218	94	98,171	5,265,935	86.6
26-27	0.000942	98,124	92	98,076	5,170,983	86.7
27-28	0.000926	98,032	92	97,986	5,072,246	86.7
28-29	0.000947	97,940	93	97,894	4,974,528	86.8
29-30	0.000974	97,847	95	97,800	4,876,701	86.8
30-31	0.001008	97,752	98	97,702	4,778,926	86.9
31-32	0.001048	97,654	102	97,602	4,681,203	86.9
32-33	0.001097	97,551	107	97,498	4,583,620	86.9
33-34	0.001162	97,444	119	97,388	4,486,102	86.9
34-35	0.001244	97,331	121	97,271	4,388,746	86.1
35-36	0.001338	97,210	130	97,145	4,291,444	86.1
36-37	0.001441	97,080	140	97,010	4,194,208	86.2
37-38	0.001567	96,940	150	96,864	4,097,038	86.3
38-39	0.001714	96,788	166	96,705	4,000,024	86.3
39-40	0.001874	96,623	181	96,512	3,903,276	86.4
40-41	0.002038	96,442	197	96,343	3,807,187	86.5
41-42	0.002207	96,245	212	96,139	3,710,944	86.6
42-43	0.002389	96,033	229	95,918	3,614,705	86.6
43-44	0.002583	95,808	248	95,679	3,518,797	86.7
44-45	0.002789	95,568	268	95,420	3,423,128	86.8



Normal cost rate

- Amount needed to cover retirement benefits earned (this year) by current employees.
- Calculated as a % of payroll

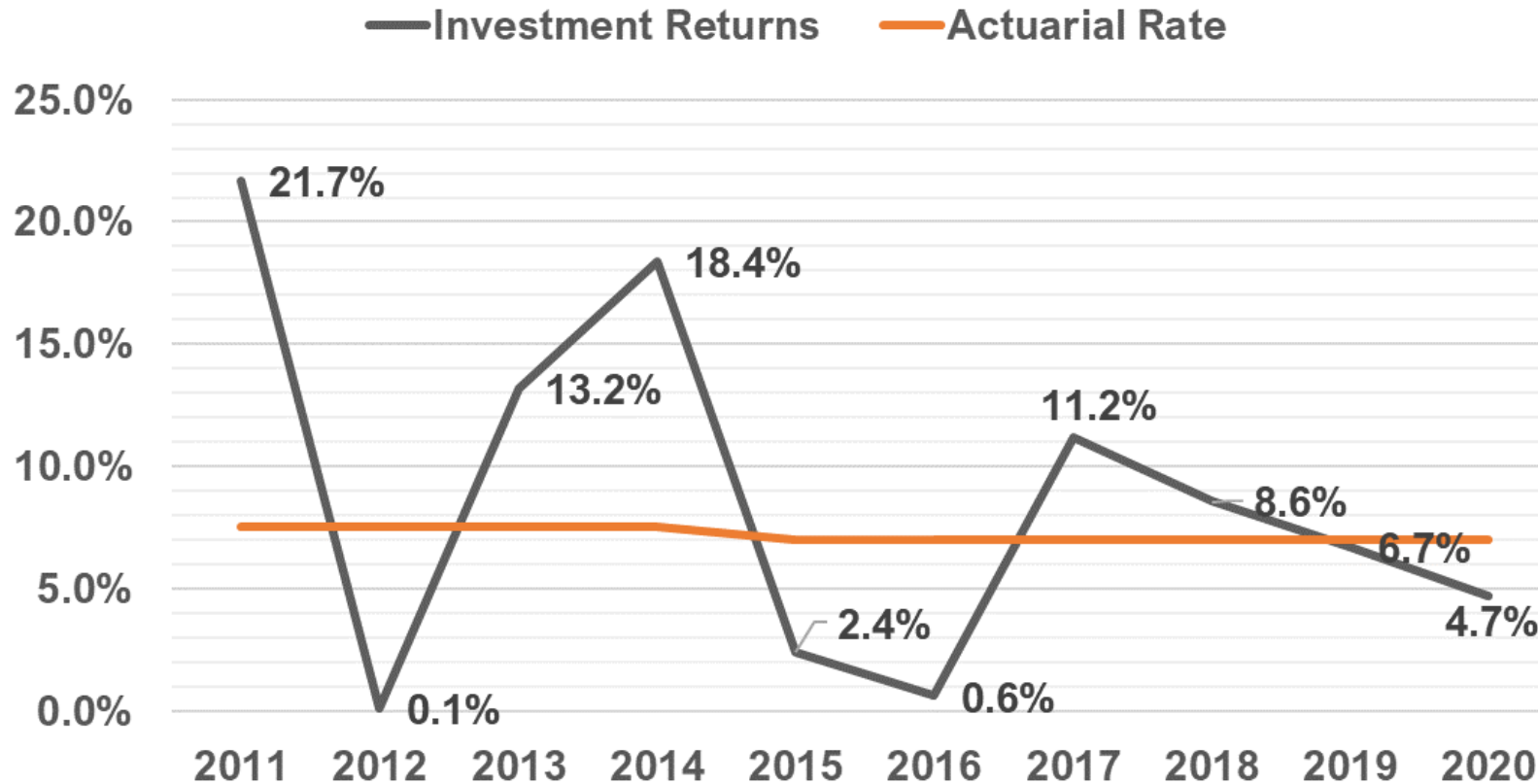
Actuarial Report

Report generated by CalPERS (each year) that details Normal Costs and Annual UAL payments. June 30, 2021 report will be provided in August, and provide the UAL payments for FY 22-23.

Discount Rate

- Interest rate paid to CalPERS on the UAL: 7%

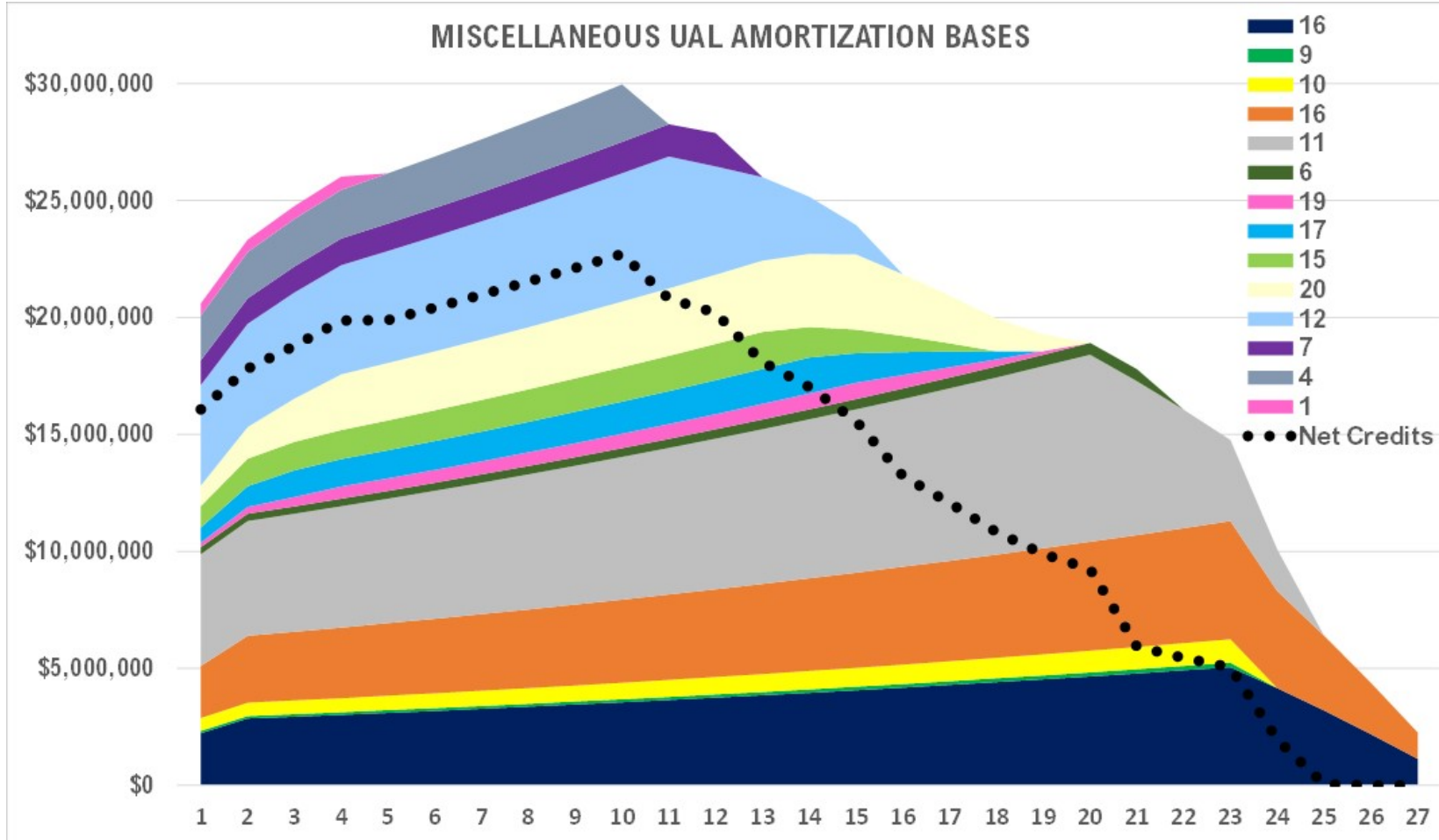
CalPERS Performance



Recent discount rate history: declined over a period of 3 years from 7.5% to 7.25% to 7.0%: 2016, 2017 & 2018.

May also decline again in 2021 given expected rate performance: 18 – 20%

Miscellaneous Plan				Fire Plan			Police Sworn Plan				
Reason for Base	Term	Amount		Reason for Base	Term	Amount	Reason for Base	Term	Amount		
1 2003	Assumption Change	4	1,898,544	1 2008	Fresh Start 30-Year	19	(4,830,800)	1 2008	Fresh Start 30-Year	19	(1,467,906)
2 2003	Assets Change	4	(28,582)	2 2009	Assumption Change	10	2,876,403	2 2009	Assumption Change	10	4,188,576
3 2004	Method Change	5	849	3 2009	Special (Gain)/Loss	20	6,368,108	3 2009	Special (Gain)/Loss	20	4,279,521
4 2009	Assumption Change	10	15,577,181	4 2010	Special (Gain)/Loss	21	4,098,630	4 2010	Special (Gain)/Loss	21	278,302
5 2009	Special (Gain)/Loss	20	11,164,259	5 2011	Assumption Change	12	3,027,414	5 2011	Assumption Change	12	3,888,881
6 2010	Special (Gain)/Loss	21	4,174,129	6 2011	Special (Gain)/Loss	22	(998,367)	6 2011	Special (Gain)/Loss	22	(1,849,390)
7 2011	Assumption Change	12	9,892,204	7 2012	Payment (Gain)/Loss	23	9,511,230	7 2012	Payment (Gain)/Loss	23	14,394,767
8 2011	Special (Gain)/Loss	22	(3,253,996)	8 2012	(Gain)/Loss	23	17,510,413	8 2012	(Gain)/Loss	23	18,246,424
9 2012	Payment (Gain)/Loss	23	1,525,536	9 2013	(Gain)/Loss	24	21,586,128	9 2013	(Gain)/Loss	24	25,794,160
10 2012	(Gain)/Loss	23	8,143,543	10 2014	Assumption Change	15	9,443,519	10 2014	Assumption Change	15	15,039,083
11 2013	(Gain)/Loss	24	68,494,480	11 2014	(Gain)/Loss	25	(13,586,161)	11 2014	(Gain)/Loss	25	(24,366,484)
12 2014	Assumption Change	15	42,707,552	12 2015	(Gain)/Loss	26	8,969,831	12 2015	(Gain)/Loss	26	16,723,461
13 2014	(Gain)/Loss	25	(65,287,971)	13 2016	Assumption Change	17	4,173,240	13 2016	Assumption Change	17	5,587,478
14 2015	(Gain)/Loss	26	34,349,511	14 2016	(Gain)/Loss	27	10,402,872	14 2016	(Gain)/Loss	27	19,727,976
15 2016	Assumption Change	17	12,479,208	15 2017	Assumption Change	18	5,420,850	15 2017	Assumption Change	18	7,134,267
16 2016	(Gain)/Loss	27	42,541,661	16 2017	(Gain)/Loss	28	(6,335,686)	16 2017	(Gain)/Loss	28	(8,406,272)
17 2017	Assumption Change	18	11,856,748	17 2018	Method Change	19	1,780,678	17 2018	Method Change	19	2,493,799
18 2017	(Gain)/Loss	28	(20,322,582)	18 2018	Assumption Change	19	8,213,285	18 2018	Assumption Change	19	11,363,258
19 2018	Method Change	19	5,286,509	19 2018	(Gain)/Loss	29	(5,241,117)	19 2018	(Gain)/Loss	29	2,137,983
20 2018	Assumption Change	19	24,104,569	20 2019	Non-Asset (Gain)/Loss	20	(345,967)	20 2019	Non-Asset (Gain)/Loss	20	1,402,963
21 2018	(Gain)/Loss	29	-5,924,854	21 2019	Investment (Gain)/Loss	20	862,239	21 2019	Investment (Gain)/Loss	20	1,058,110
22 2019	Non-Asset (Gain)/Loss	20	1,553,273								
23 2019	Investment (Gain)/Loss	20	3,223,442								
	FY21-22		\$ 204,155,214				\$ 77,906,772				\$ 117,648,957
											\$ 399,710,943



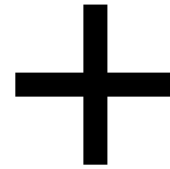
Miscellaneous amortization bases: 23 loans: \$204.1M

“LAYER CAKE” (Julio Morales, UFI)

Total bases (# of loans through 2019): 65

Source: Actuarial Report dated June 30, 2019

Normal Costs
(Benefits earned in current year)
% of Payroll:
\$20.7M

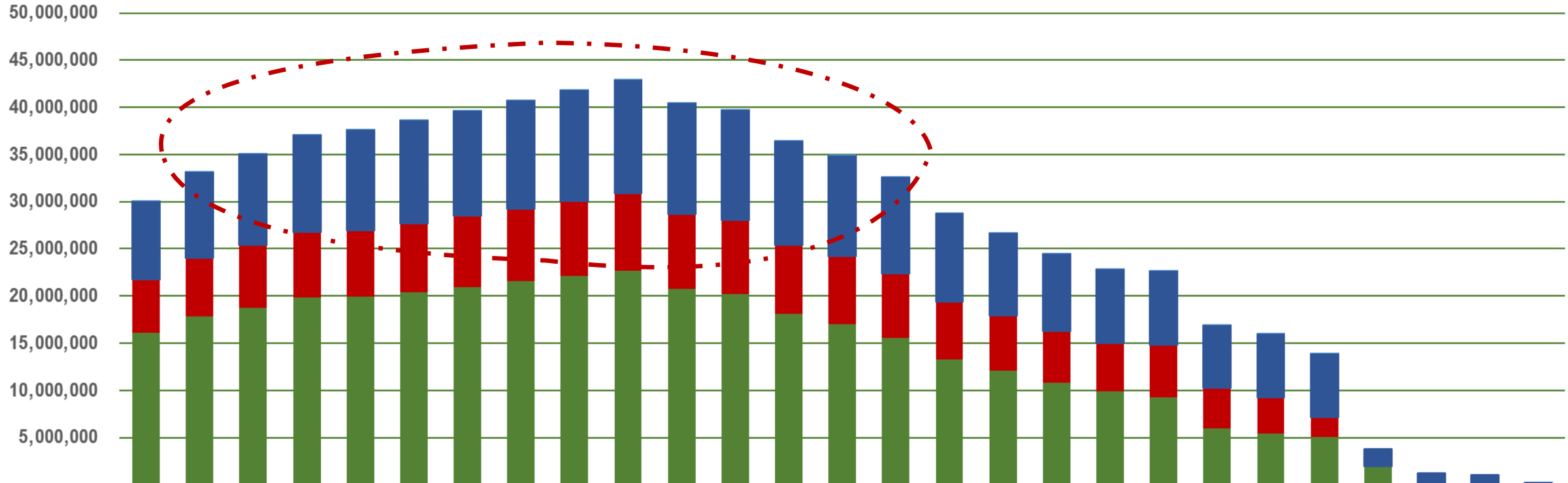


Unfunded Accrued Liability (UAL)
% of Payroll:
Fixed \$ Amt: \$30M

Unfunded Accrued Liability (UAL)				
	Misc	Fire	Police	Combined
Accrued Liability	\$ 772,772,883	\$ 244,355,621	\$ 328,386,793	\$ 1,345,515,297
Market Value of Assets (MVA)	567,430,303	166,632,267	212,853,832	946,916,402
Unfunded Accrued Liability (UAL)	\$ 205,342,580	\$ 77,723,354	\$ 115,532,961	\$ 398,598,895
Funded Ratio	73.4%	68.2%	64.8%	70.4%
FY 21-22 UAL	\$ 204,155,214	\$ 77,906,772	\$ 117,648,957	\$ 399,710,943

\$110M fixed UAL payments over FY 21 baseline over next 10 years

UAL Payments: Miscellaneous, Fire and Police

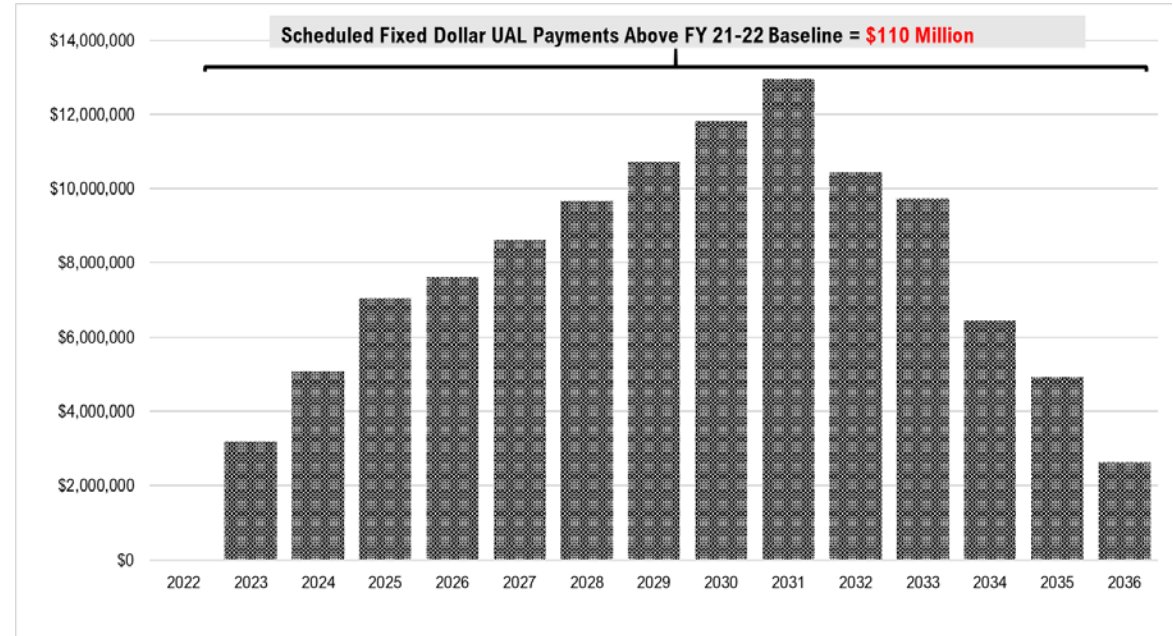


	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	
TOTAL (Millions)	30.0	33.2	35.1	37.0	37.6	38.6	39.6	40.7	41.8	42.9	40.4	39.7	36.4	34.9	32.6	28.7	26.7	24.5	22.8	22.6	16.9	16.0	13.9	3.79	1.18	1.03	0.20	
Safety	8,21	9,14	9,72	10,3	10,6	10,9	11,1	11,4	11,8	12,1	11,7	11,6	11,0	10,7	10,2	9,32	8,82	8,29	7,89	7,86	6,66	6,76	6,73	1,83	1,12	1,02	198,	
Fire	5,73	6,25	6,58	6,90	7,11	7,30	7,50	7,71	7,92	8,13	7,89	7,85	7,35	7,17	6,84	6,20	5,82	5,41	5,10	5,55	4,31	3,82	2,14					
Miscellaneous	16,0	17,8	18,7	19,8	19,8	20,4	20,9	21,5	22,1	22,7	20,7	20,2	18,0	17,0	15,5	13,2	12,0	10,8	9,88	9,24	5,93	5,44	5,05	1,95	57,9			

Amortization Payment Schedule

	Miscellaneous	Fire	Safety	TOTAL	TOTAL PYMT > BASELINE
1 2022	16,072,044	5,731,079	8,216,445	30,019,568	
2 2023	17,803,380	6,257,998	9,140,730	33,202,108	3,182,540
3 2024	18,784,413	6,583,852	9,727,619	35,095,884	5,076,316
4 2025	19,857,640	6,905,171	10,317,732	37,080,543	7,060,975
5 2026	19,890,352	7,112,712	10,618,536	37,621,600	7,602,032
6 2027	20,423,529	7,306,586	10,903,841	38,633,956	8,614,388
7 2028	20,971,588	7,505,794	11,197,000	39,674,382	9,654,814
8 2029	21,534,722	7,710,479	11,498,214	40,743,415	10,723,847
9 2030	22,113,336	7,920,794	11,807,714	41,841,844	11,822,276
10 2031	22,707,864	8,136,892	12,125,720	42,970,476	12,950,908
11 2032	20,799,508	7,893,745	11,775,078	40,468,331	10,448,763
12 2033	20,200,344	7,853,137	11,684,565	39,738,046	9,718,478
13 2034	18,091,523	7,357,141	11,005,862	36,454,526	6,434,958
14 2035	17,026,716	7,178,276	10,725,221	34,930,213	4,910,645
15 2036	15,575,442	6,840,222	10,231,715	32,647,379	2,627,811
16 2037	13,226,850	6,204,470	9,323,601	28,754,921	
17 2038	12,063,402	5,821,772	8,824,836	26,710,010	
18 2039	10,826,333	5,413,380	8,291,768	24,531,481	
19 2040	9,886,566	5,103,274	7,890,388	22,880,228	
20 2041	9,247,591	5,555,631	7,865,683	22,668,905	
21 2042	5,930,298	4,315,740	6,668,198	16,914,236	
22 2043	5,441,988	3,828,685	6,764,938	16,035,611	
23 2044	5,052,339	2,140,828	6,730,383	13,923,550	
24 2045	1,953,233		1,838,921	3,792,154	
25 2046	57,900		1,126,131	1,184,031	
26 2047			1,025,391	1,025,391	
27 2048			198,417	198,417	
TOTAL	\$365,538,901	\$ 146,677,658	\$ 227,524,647	\$ 739,741,206	110,828,751

The challenge to be solved:



Steady increases above baseline over the next several years will continue to crowd out the services we provide to the Santa Rosa community and erode budget flexibility

OPTIONS FOR ADDRESSING CALPERS CHALLENGE

BUDGETARY & FINANCING APPROACHES

PROBLEM SOLVING STRATEGIES

FOCUS: PENSION OBLIGATION BONDS

RISK MANAGEMENT STRATEGIES

Diverse strategies are likely to deliver better results while mitigating against inherent risks

1

Allocation between funds

- Sewer Fund; Water Fund

2

Use of reserves and one-time monies

- 0.30% LAIF vs 7.0% CalPERS Discount Rate
- \$10M one-time payment

3

Pension Stabilization Fund:

- Section 115 Trust – Refer to Appendix

4

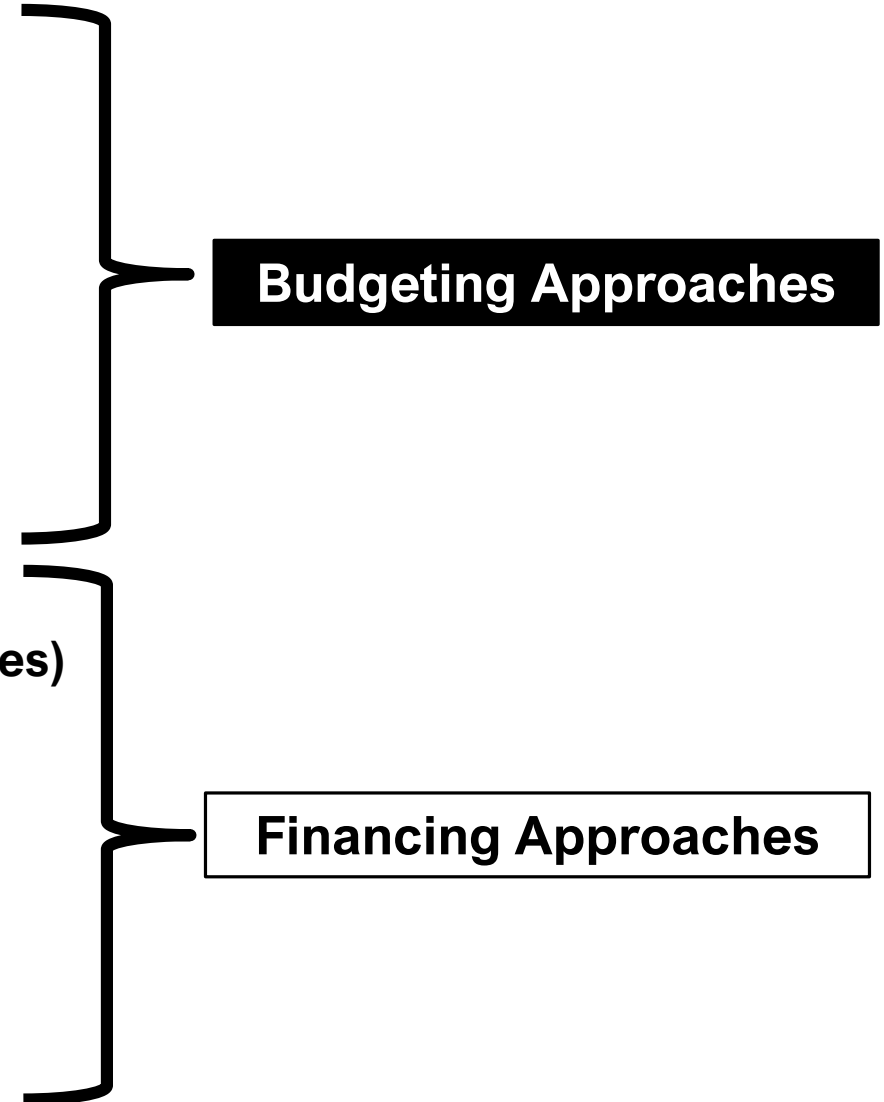
Leveraged Refunding (no current opportunities) (Upfront savings)

5

Tax-Exempt Exchange (limited opportunities)

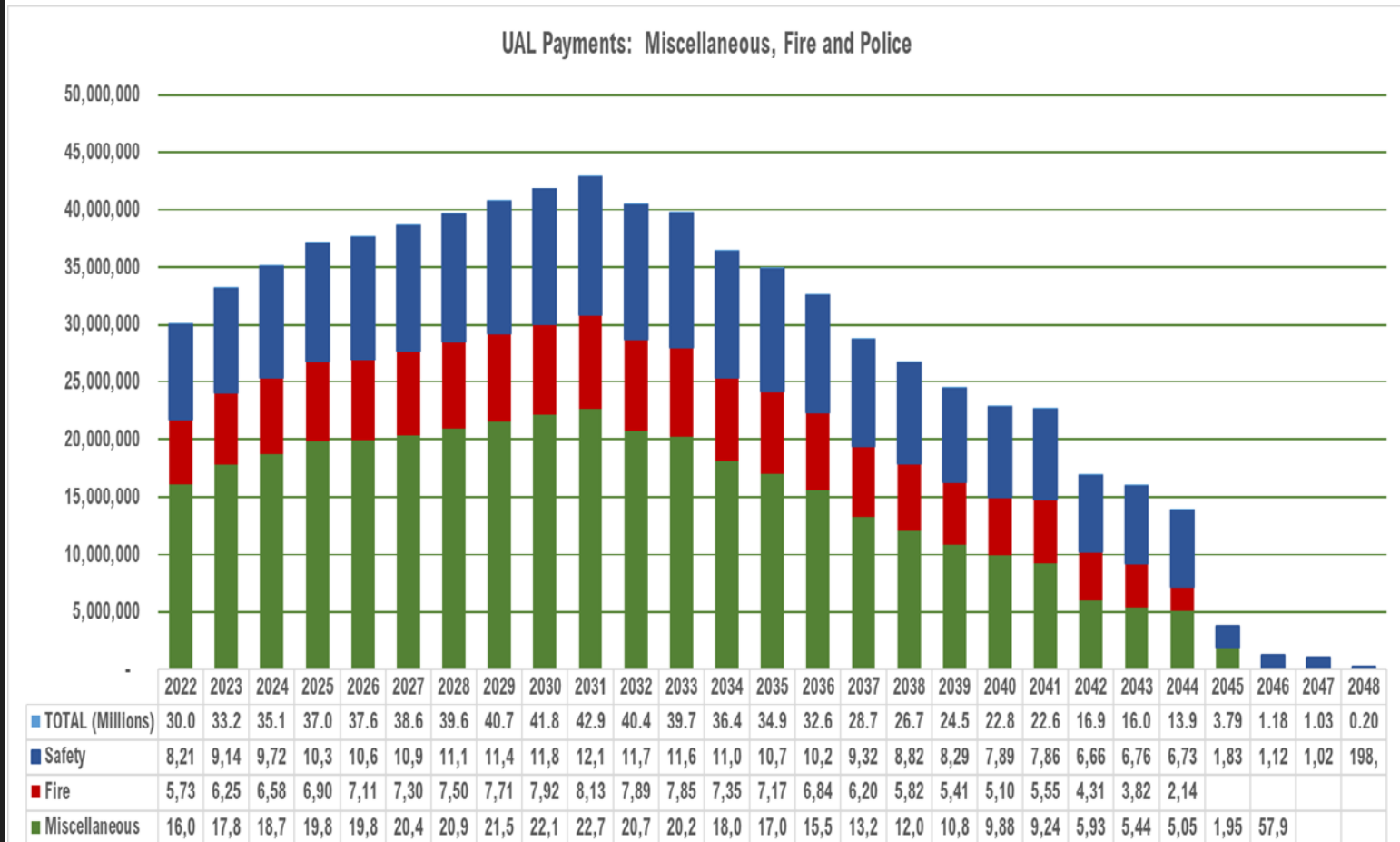
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Pension Obligation Bonds

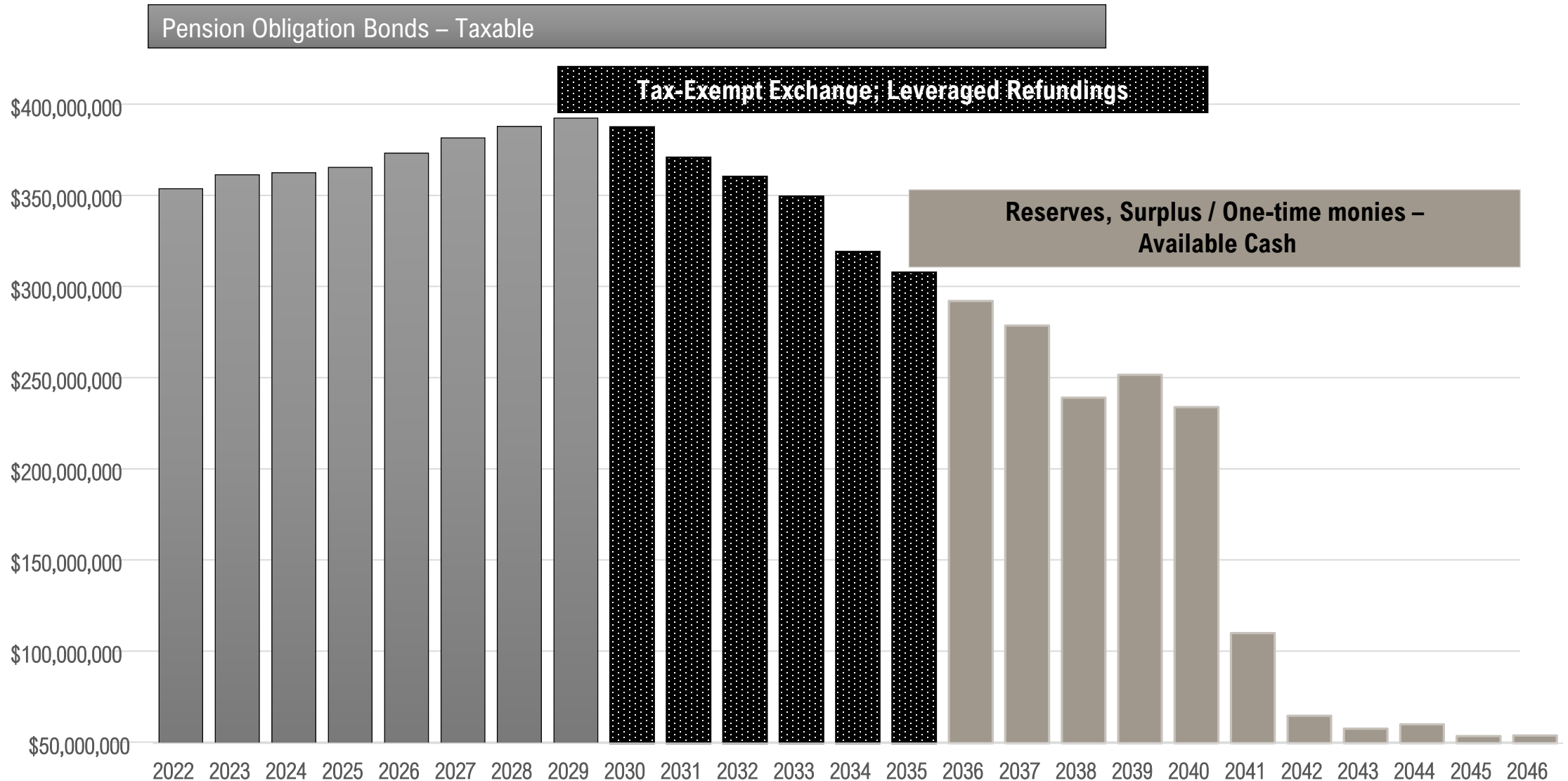


Solving the Problem

- Reshape UAL Payments, i.e., eliminate the peak
- Develop long-term comprehensive plan with multiple solutions
- Reduce UAL payments significantly through POB issuance
- Address POB Risks



Four potential strategies: By cost of capital



Pension Obligation Bonds

POBs

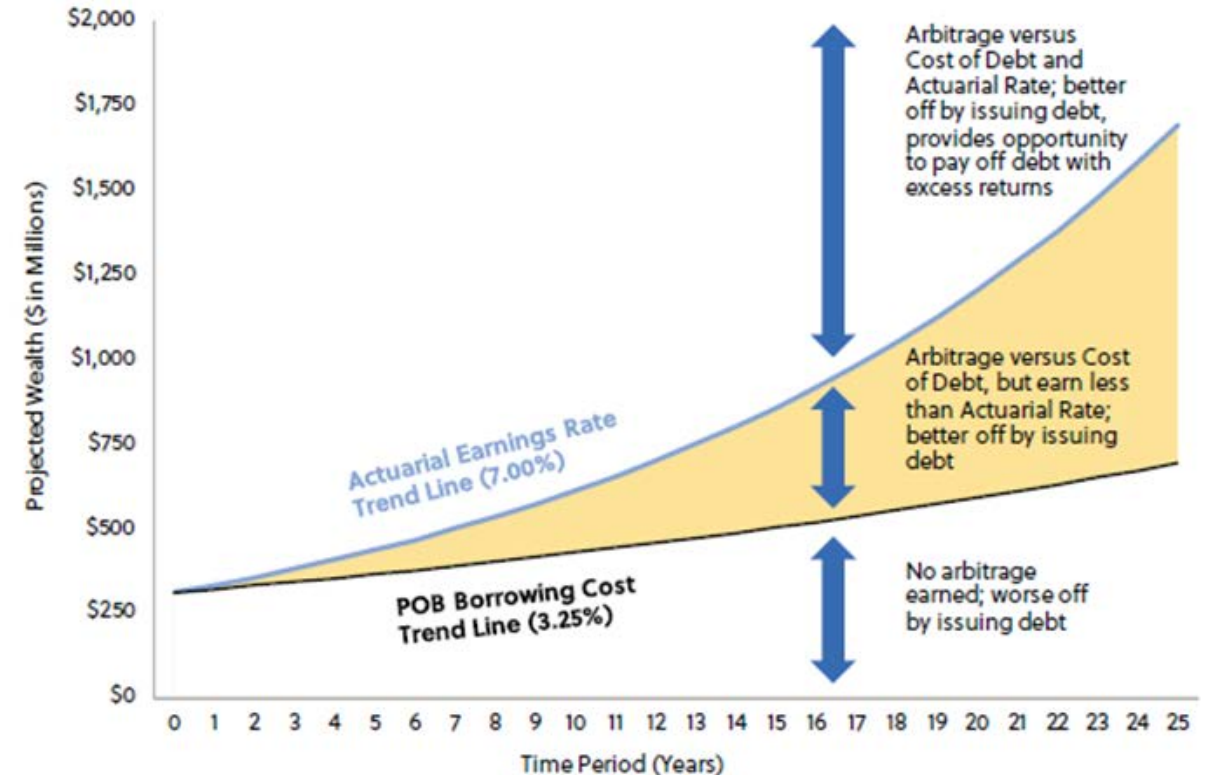
Taxable obligations issued by state or local government to fund unfunded liabilities

The City would issue bonds below the CalPERS discount rate of 7% (at current interest rates)

Goal: reduce the City's CalPERS contributions

Keep in mind: Savings are never fully quantifiable until maturity of the bonds

Pension Obligation Bonds



For Illustrative Purposes Only.

*How POBs
potentially create
cash flow and
budgetary savings*

$$\begin{array}{c} \text{UAL @ 7\%} \\ \text{minus} \\ \text{POB estimated cost of} \\ \text{capital (3.50\%)} \\ = \\ \text{cash flow and budgetary} \\ \text{savings} \end{array}$$

Issued at a rate lower than the CalPERS assumed earnings rate (currently 7%)

Produces cash flow and budgetary savings

By issuing POBs, the City replaces the UAL (unfunded actuarial liability, a higher cost debt) with lower cost debt to bondholders (less than 4% in the current rate environment)

The difference between the UAL and the debt service payment produces savings

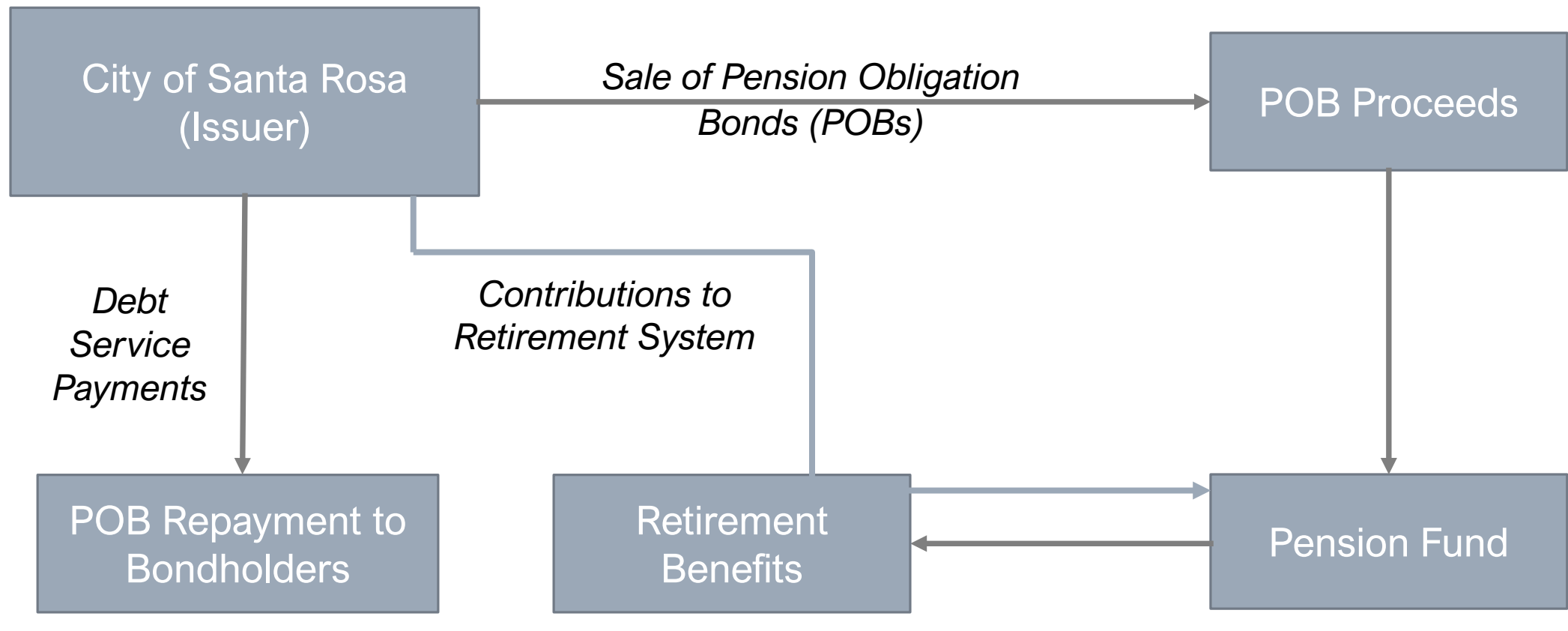
Current POB Landscape: Compelling

Potential Impacts for City

- Opportunity to manage rising contributions through 2031
- Savings able to accelerate UAL liability amortization
- Savings provide budgetary relief

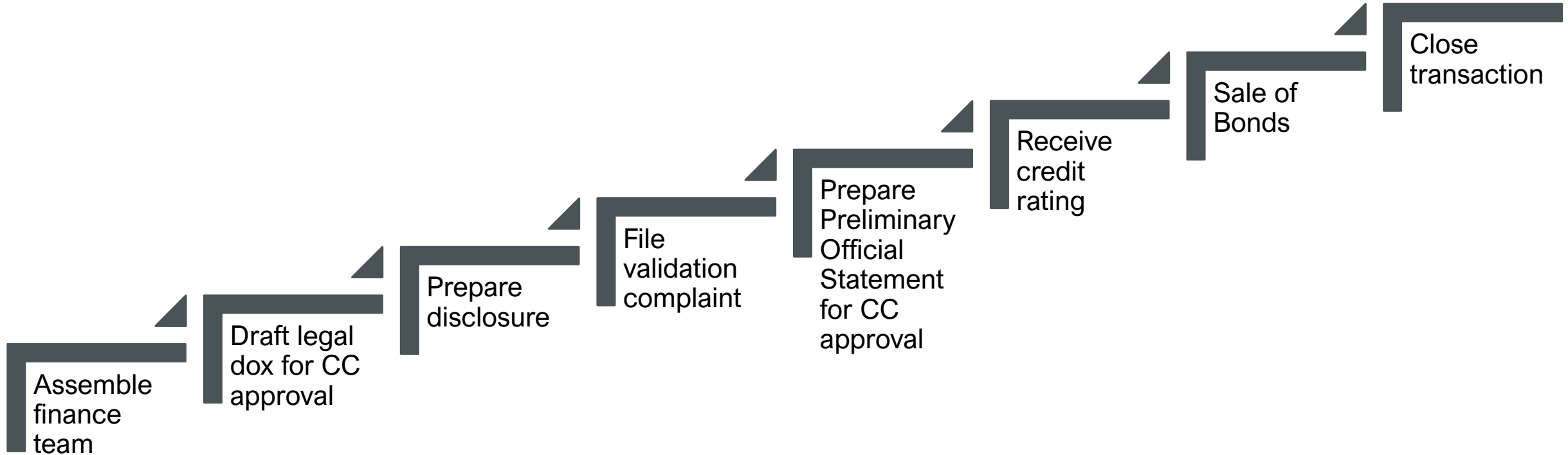
Potential Impacts for Retirement System

- Provide large cash infusion to make new investments
- Can be done all at once or over time by issuing multiple issues of bonds
- Increases funding ratio, a plus for bargaining units
- Reduces reliance on City contributions



POB Mechanics: POB payments will be based on interest rates in 3:00 – 3.5 % range versus payments to CalPERs that are amortized at 7% discount rate (cost of borrowing)

Approximate timeline: 6 months assuming no challenge to validation



Factors to Consider

Consider addressing portion of UAL only

Deposit of POB proceeds into CalPERS does not bring the UAL to zero . . . Doesn't necessarily keep it at zero going forward

From a credit perspective, primary concern is around implementation of a comprehensive plan to address unfunded liabilities

Potential benefits to the City

Reduced UAL

Immediate reduction in UAL, the benefit of which will vary depending on the percentage of UAL which we fund with POBs

Budgetary and Cash Flow Savings

Both cash flow and budgetary savings as a result of a lesser payment to bondholders than the amount due to CalPERS for amortization of UAL

Market Timing

May produce an overall positive economic effect on the City's program. Any investment gains in the program will result in a "surplus" able to provide a cushion against any future market declines

Time Value of Money

With increased investment in the fund, POBs accelerate the compounding effect of earnings

GFOA Advisory: Addresses previous risk considerations enumerated in the Appendix. POBs have evolved considerably since 1st generation

1. Complex instruments: swaps, CABs, derivatives, GICs

2. Increase debt burden / reduce flexibility: “soft to hard liability”

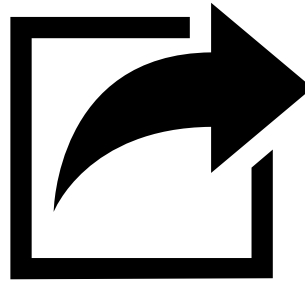
3. Not refundable “make-whole” call

4. Extend repayment or finance Normal Costs

5. Stand alone POBs not viewed as credit positive

6. Reinvestment of POB Proceeds: Market & Timing Risk

POBs 2.0



- ***In-depth Study***
- ***Pension Reform***
- ***Market Evolved***

1. Plain Vanilla Fixed Rate Bonds

2. GASB 68 Liability - Balance Sheet

3. 10-year Call

4. Finance UAL Only (same term)

5. Credit Neutral / Plan & Study +

6. Dollar Cost Averaging / Multiple Strategies / Hedge

Risk mitigation strategies: POBs

1

Issue less than the 100% of the current estimate of UAL

2

Consider multiple tranches allowing for dollar cost averaging

3

Time issuances at key market cycles (during low equity market cycles and low interest rate environment)

4

Mitigate credit / market risks by ensuring adequate spread between borrowing and earnings rate

5

Avoid adding complexity i.e., variable rate debt and interest rate swaps

6

Be ready to issue when time is right. Have documents and savings target prepared; await favorable market conditions

APPENDICES

POB RISKS

JUDICIAL VALIDATION TIMELINE

Potential risks

Investment Risk

- Most significant risk
- If the retirement plans earn less over the life of the bonds than the interest paid on the POBs, the POB program becomes a net cost to the City
- If plans earn less than the Discount Rate, the UAL continues to grow

Market Timing

- Greatly impacts long-term economics of transaction
- POBs result in a **lump sum investment** that otherwise would have been paid to and invested by the pension system over time
- **Investment losses** early in the life of a POB program would contribute to a new unfunded liability and could require many years of future gains in order to reach “break-even”

Loss of Flexibility

- While actuarial assumptions can be changed over time, borrowing rates are set for the life of the bonds unless refinanced (if interest rates decline)

Pension Liability

- Never truly extinguished

Potential risks, Cont'd.

Over Funding

- May occur when POBs are sized to eliminate the entire UAL. Above market returns have the potential to create an actuarial “surplus” with resulting pressure to increase benefits, as was the case for some 1st generation POBs

Credit Risk

- Rating agencies may view POB issuance as a mechanism for short-term budget relief thereby resulting as a credit negative

Loss of Flexibility

- POBs have the potential to be viewed as a trade of a soft liability for a hard liability

Judicial Validation Timeline

Validation Step	Timeframe
Bond Counsel Drafts: Resolution, Indenture, & Bond Purchase Agreement	2 weeks
City Council passes a resolution authorizing the sale of POBs & File Validation Proceedings	Agenda Timeline
File Validation Action with County Superior Court	1-2 weeks
Receive Order for Publication of Summons from the Court	3-6 weeks
Publish notice in local publication of general circulation	21 days
Waiting period to file petition – minimum 10 days	2-3 weeks
Clerk enters and schedules hearing for default judgement	15-30 days
Hearing for Default Judgement	
30-day Appeal Period	4 weeks
Return to City Council for Approval of POBs & Sale of POBs	Agenda Timeline

POBs Issued Since 2017

CA Pension Obligation Bonds: 2017-2021

Agency	Date	Rating	Par Value	Underwriter	Municipal Advisor
1 Willows	5/27/2021	A+	8,510,000	Hilltop	Wulff Hansen
2 Cental Marin Police Auth	5/11/2021	AAA	26,505,000	Oppenheimer	Wulff Hansen
3 Corte Madera	4/29/2021	AAA	18,955,000	Oppenheimer	NHA Advisors
4 Manhattan Beach	4/28/2021	AAA	91,275,000	Stifel	KNN
5 Huntington Beach	3/17/2021	AA+	363,645,000	Stifel/BAML	KNN
6 Orange	3/3/2021	AA	285,770,000	Stifel	UFI
7 Chula Vista	2/11/20/21	AA	350,025,000	Stifel	NHA Advisors
8 Downey	2/9/2021	AA	113,585,000	BAML	Fieldman Rolapp
9 Monterey Park	2/2/2021	AA	106,335,000	Ramirez/Stifel	UFI
10 El Cajon	1/13/2021	AA	147,210,000	BAML	UFI
11 Ukiah	12/17/2020	A+	49,875,000	Piper	NHA Advisors
12 Coachella	12/8/2020	AA-	17,590,000	Ramirez	UFI
13 Gardena	11/24/2020	AA-	101,490,000	BAML/Stifel	NHA Advisors
14 Placentia	11/12/2020	BBB+	52,950,000	Stifel	Harrell & Co
15 Arcadia	10/27/2020	AAA	90,000,000	Stifel	UFI
16 Torrance	10/12/2020	AA	349,515,000	Morgan Stanley	NHA Advisors
17 Azusa	9/30/2020	AA-	70,075,000	BAML	UFI
18 Pomona	8/20/2020	AA-	219,890,000	RBC	UFI
19 West Covina	7/30/2020	A+	204,095,000	Hilltop	NHA Advisors
20 San Bernardino	7/23/2020	NR	5,945,000	Hilltop	Columbia Capital
21 San Bernardino	7/23/2020	NR	13,905,000	Hilltop	Columbia Capital
22 El Monte	6/30/2020	AA/A+	21,000,000	Ramirez	NHA Advisors
23 Carson	6/18/2020	AA-	108,020,000	Cabrera	Harrell & Co
24 El Monte	6/18/2020	AA/A+	118,725,000	Ramirez	NHA Advisors

25 North Co FD	6/18/2020	AA-	20,305,000	Brandis Tallman	NHA Advisors
26 Inglewood	6/17/2020	AA/AA-	101,620,000	Cabrera	UFI
27 Riverside	6/11/2020	AA	432,165,000	BAML	NHA Advisors
28 Montebello	6/10/2020	AA/A+	153,425,000	Cabrera	Hilltop
29 Fort Ord	6/10/2020	AA/BBB+	30,405,000	Stifel/Citi	NHA Advisors
30 Ontario	5/21/2020	AA	236,585,000	Hilltop	Harrell & Co
31 Larkspur	5/14/2020	AAA	18,295,000	DA Davidson	Wulff Hansen
32 County of Riverside	5/6/2020	AA	719,995,000	Raymond James	Columbia Capital
33 Pasadena	2/26/2020	AAA	131,805,000	Stifel/BAML	UFI
34 Orange USD	12/19/2019	AA	33,595,000	JP Morgan	Fieldman Rolapp
35 Monterey Co Reg FD	12/5/2019	AA-	20,250,000	Stinson	-
36 Pacifica	10/23/2019	AA+	9,685,000	US Bancorp	Backstrom
37 Hawthorne	10/8/2019	AA-	121,865,000	Ramirez	RDP
38 Marysville	9/24/2019	A	15,000,000	Hilltop	Wulff Hansen
39 Glendora	9/5/2019	AAA	64,420,000	Stifel	UFI
40 Chowchilla	3/21/2019	A+	10,500,000	Brandis Tallman	Wulff Hansen
41 Baldwin Park	3/6/2019	AA-	54,085,000	Ramirez	Harrell & Co
42 Ridgecrest	12/18/2018	AA/A	19,955,000	Hilltop	Wulff Hansen
43 La Verne	8/15/2018	AA+	54,265,000	Hilltop	Harrell & Co
44 County of Tulare	6/25/2018	AA-	251,220,000	Raymond James	KNN
45 Monrovia	12/13/2017	AA-	111,545,000	Hilltop	UFI
46 Inglewood	11/14/2017	AA	52,795,000	Cabrera	UFI
47 Brawley	7/20/2017	A-	16,310,000	Ramirez	Bartle Wells
48 Pomona	6/29/2017	AA/A+	50,475,000	RBC	UFI
49 Riverside	5/31/2017	AA-	31,960,000	BAML	UFI
			Total	\$ 5,697,415,000	

Section 115 Pre-Funding Trust

Special investment can only be used to cover CalPERS costs

Increases expenditures in the short-term

Investment policy considerations that apply to the General Fund don't apply to a Section 115

Can be used to set off future pension cost volatility

