7 Solutions for Addressing Pension & OPEB Issues

How we Got Here

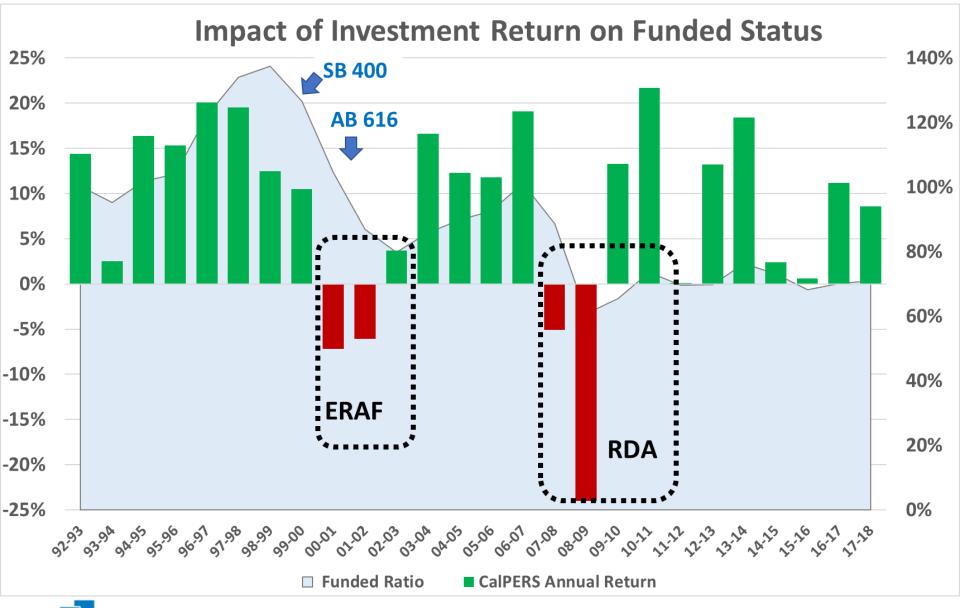


Primary Contributing Factors

CA League of Cities Pension Sustainability Report (2018)

- 5 Key factors that impact (unsustainability) CalPERS:
- 1. Enhanced & Retroactive Benefits
 - SB 400 (1999) Safety
 - AB 616 (2001) General
- 2. Investment Losses
- 3. Cost of Living Adjustments (COLA)
- 4. Demographics (life expectancy)
- 5. CalPERS Contribution Policy







Primer: Understanding Your Pension Liability



CalPERS Annual Pension Payments

Normal Costs



Unfunded Accrued Liability (UAL)

Benefits earned <u>this year</u> by employees

Unfunded benefits earned in <u>prior</u> <u>years</u> by employees + retirees

% of Payroll

\$5 Million

Fixed \$ Amount

\$11 Million

Current Payment

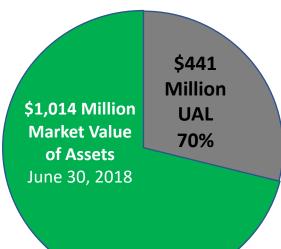
Past Due Payment



Unfunded Liability (UAL)

2018 Unfunded Accrued Liability (UAL)						
	MISCELLANEOUS FIRE SAFETY					
Accrued Liability (AL)	\$ 1,455,034,735	\$ 451,623,081	\$ 809,187,846	\$ 2,715,845,662		
Market Value Assets (MVA)	1,014,033,704	316,715,430	567,889,729	1,898,638,863		
UAL = AL-MVA	\$ 441,001,031	\$ 134,907,651	\$ 241,298,117	\$ 817,206,799		
	69.7%	70.1%	70.2%	69.9%		

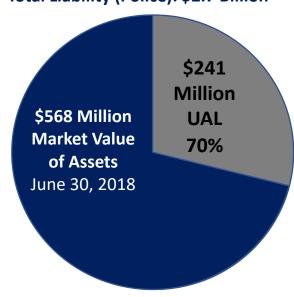




Total Liability (Misc.): \$451 Million



Total Liability (Police): \$2.7 Billion



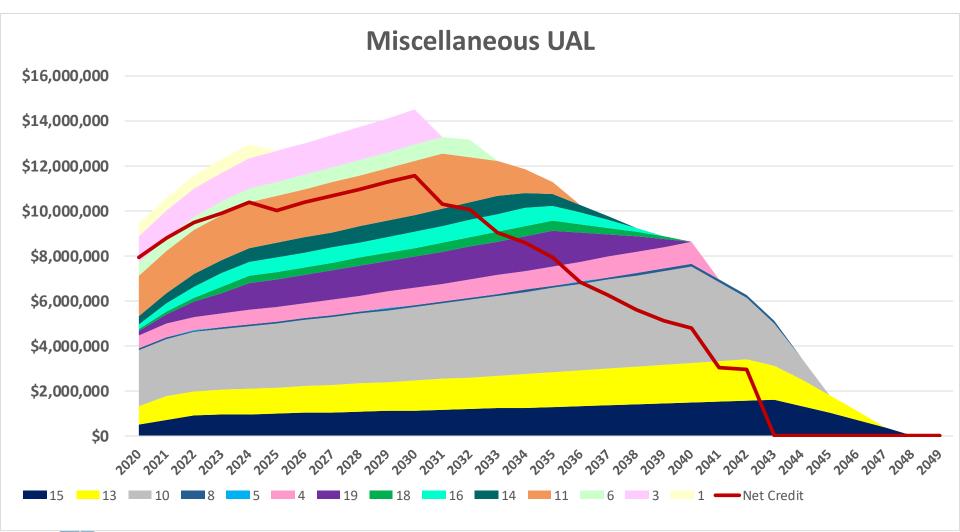


Amortization Bases

	MISCELLANEOUS PLAN						F	IRE PLAN					PC	DLICE PLAN			
	Year	Ramp Up	Term	Balance 6/30/2018	Payment FY 18-19		Year	Ramp Up	Term	Balance 6/30/2018	Payment FY 18-19		Year	Ramp Up	Term	Balance 6/30/2018	Payment FY 18-19
1	2006	NO	8	\$ 63,867,079	\$ 7,933,551	1	2003	NO	20	\$ (10,358,557)	\$ (730,340)	1	2003	NO	20	\$ (4,849,888)	\$ (341,946)
2	2009	NO	11	45,460,634	4,600,696	2	2004	NO	11	5,895,547	596,640	2	2004	NO	11	9,771,713	988,915
3	2009	NO	21	24,356,207	1,671,759	3	2007	NO	21	17,688,525	1,214,103	3	2007	NO	21	12,021,266	825,114
4	2010	NO	22	10,174,782	681,066	4	2009	NO	22	(3,406,889)	(228,046)	4	2009	NO	22	(2,046,621)	(136,994)
5	2011	NO	13	22,198,718	2,021,565	5	2009	NO	13	6,533,408	594,976	5	2009	NO	13	10,940,033	996,273
6	2011	NO	23	(35,002,672)	(2,288,553)	6	2010	NO	23	(1,267,179)	(82,851)	6	2010	NO	23	(5,460,235)	(357,002)
7	2012	NO	24	4,748,954	303,731	7	2011	NO	24	1,164,837	74,500	7	2011	NO	24	1,934,036	123,696
8	2012	NO	24	44,631,784	2,854,536	8	2011	NO	24	50,133,923	3,206,439	8	2011	NO	24	73,911,318	4,727,181
9	2013	100%	25	162,716,814	8,627,815	9	2011	NO	25	41,047,618	2,176,488	9	2011	NO	25	75,665,407	4,012,045
10	2014	100%	16	72,787,584	4,004,364	10	2012	NO	16	19,192,747	1,055,877	10	2012	NO	16	44,093,700	2,425,787
11	2014	100%	26	(113,580,460)	(4,527,715)	11	2012	NO	26	(37,062,401)	(1,477,437)	11	2012	NO	26	(73,816,427)	(2,942,582)
12	2015	80%	27	25,265,838	681,765	12	2013	100%	27	14,773,174	398,635	12	2013	100%	27	38,051,154	1,026,760
13	2016	60%	18	23,370,267	441,005	13	2014	100%	18	7,144,162	134,813	13	2014	100%	18	13,359,495	252,098
14	2016	60%	28	78,320,854	1,086,833	14	2014	100%	28	17,757,283	246,412	14	2014	100%	28	38,770,140	538,001
15	2017	40%	19	18,235,830	(1,230,621)	15	2015	80%	19	7,373,112	(240,538)	15	2015	80%	19	13,890,205	(628,058)
16	2017	40%	29	(36,558,829)	-	16	2016	60%	29	(12,294,178)	-	16	2016	60%	29	(24,438,291)	-
17	2018	20%	20	7,871,838	(106,209)	17	2016	60%	20	2,892,077	14,965	17	2016	60%	20	3,822,244	(134,902)
18	2018	20%	20	38,693,566	(1,048,505)	18	2017	40%	20	12,059,290	(306,089)	18	2017	40%	20	22,544,399	(764,793)
19		20%	30	(16,557,756)	-	19	2017	40%	30	(4,358,847)	-	19	2017	40%	30	(6,865,531)	-
	MISC.	PLAN		\$ 441,001,032	\$ 25,707,083		FIRE P	LAN		\$ 134,907,652	\$ 6,648,547		FIRE P	LAN		\$ 241,298,117	\$ 10,609,593
_								COME	BINED (JAL	\$ 817,206,801	\$ 42,965,223					

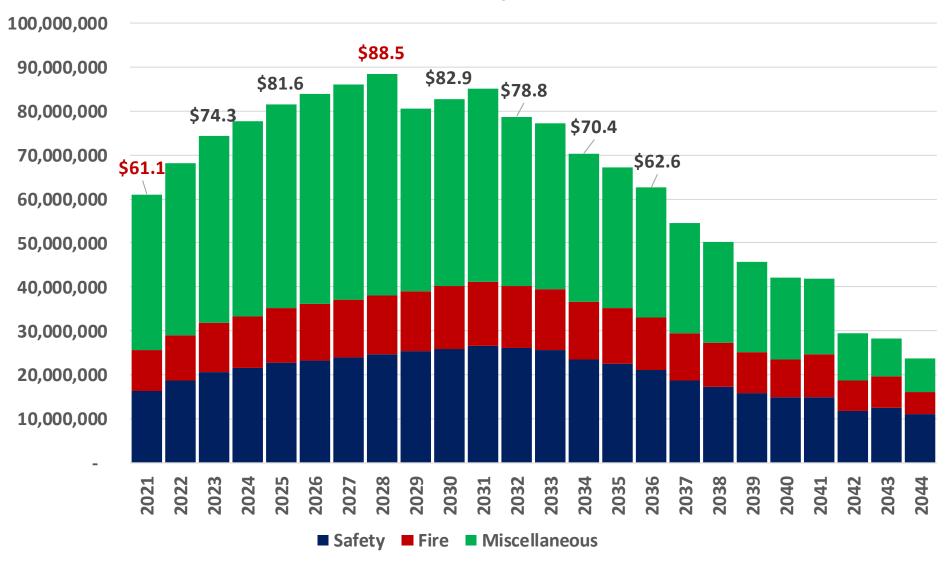


Layer Cake - Amortization Schedules





UAL Amortization Payment Schedule





Comprehensive Management Strategy



Comprehensive Management Plan

Retirement Liabilities are Dynamic and Ever-Changing

- Must develop a long-term plan
- Actively manage liabilities (periodically review)
- Long-term, sustained financial discipline

Policy & Analysis:

- Pension/OPEB Modeling
- Long-Term Financial Projections
- Recession Scenarios
- Comprehensive Management Plan
- Funding Policy



Multiple Solutions:

- Reserves / 1-Time Monies
- Tax-Exempt Exchange
- Leveraged Refunding
- Pension Stabilization Fund



Pension Funding Policy

City Council should adopt formal written policies:

- Full description of plans & liabilities
- Financial metrics/targets:
 - Level of reserve and funding target levels
- How to use excess (1-time monies) & reserves
- Allocation of Additional Resources (ADPs)
- Potential Funding Solutions
 - Funding objectives
 - Minimum Savings Levels
 - Structuring guidelines

We believe that rating agencies will require agencies to formally adopt written policies to address unfunded pension/OPEB liabilities in the future.



7 Solutions



Pension/OPEB Management Strategy

Internal Resource Allocation & Budgeting

- 1. Allocation Among Funds *
- 2. Apply Reserves & 1-time Monies (ADPs)
- Pension Stabilization Fund 115 Trust
- 4. Synthetic Fresh Start

Financing Mechanisms

- 5. Leveraged Refunding
- 6. Tax-Exempt Exchange
- 7. Pension / OPEB Bonds



"Bootstrapping": applying savings to prepay additional liabilities



1. Allocation to Among Funds

UAL: CAFR vs. CalPERS						
	Miscellaneous	TOTAL				
2018 CAFR	100,393,109	164,607,354	\$ 265,000,463			
2018 CALPERS	103,838,345	176,739,169	\$ 280,577,514			

7.15% Discount Rate (CAFR) vs. 7.00% Discount Rate (CalPERS)

ALLOCATION AMONG MAJOR FUNDS								
General Fund Business Type TOTAL								
Net Pension	\$243,918,000	\$ 20,079,000	\$ 263,997,000					
Total OPEB	24,956,000	6,318,000	31,274,000					
Combined Liaiblity \$268,874,000 \$ 26,397,000 \$ 295,271,00								

Pension	92%	8%
OPEB	80%	20%

	Labor Costs		Pension		ОРЕВ	
General Fund	\$82,000,000	89.5%	\$243,918,000	92.4%	\$ 24,956,000	79.8%
Water	6,786,770	7.4%	14,055,035	5.3%	4,422,643	14.1%
Sanitation	2,817,866	3.1%	6,023,586	2.3%	1,895,419	6.1%
TOTAL	\$91,604,636	100%	\$263,996,621	100%	\$ 31,274,062	100%

Source: 2018 CAFR p. 28



2. Use of Reserves & 1-time Monies

GFOA Minimum Reserve Requirements

2 months of Operating Expenses (17%)

Working Capital Reserve

- Current Assets Current Liabilities
- Provides cushion against receipt of Revenues and payment of expenses

LAIF 2.0-2.5% vs CalPERS 7.0%

Short-Term Money

Market Returns
vs.
Equities/Fixed
Income
Bonds/Alternative
Investments

1-Time Monies:

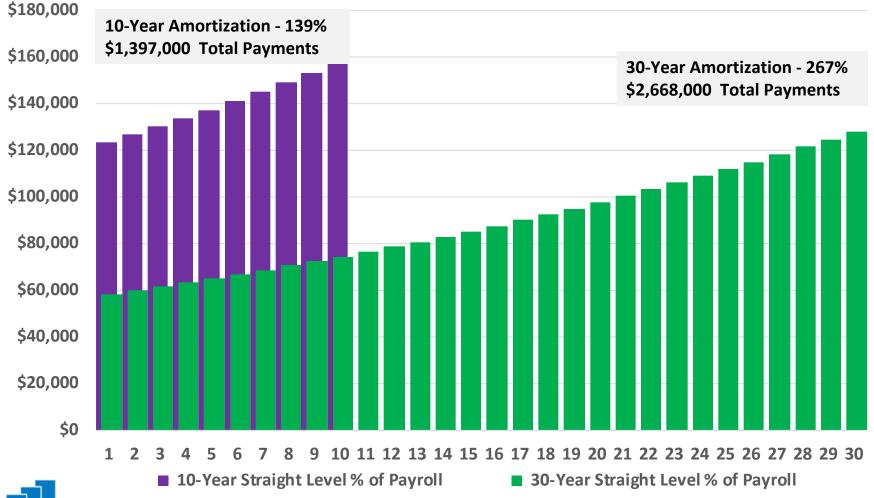
- Construction Projects
- Budget Savings



Targeting Strategies

\$1 Million UAL: 10-Year vs. 30-Year Amortization

(Level % of Payroll - No Ramp-Up & Ramp-Down)



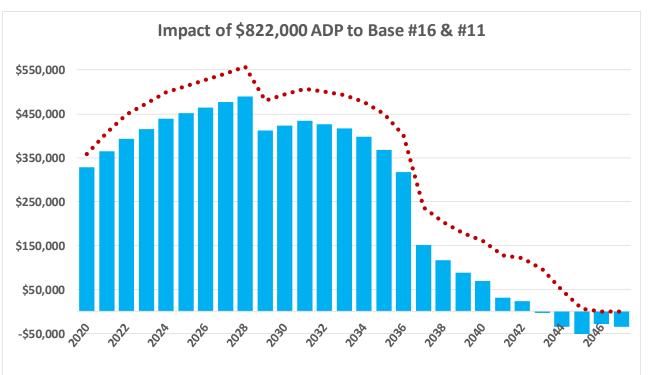


2. Additional Discretionary

Payments

Apply \$822,000 DSR to #16 & #11 UAL reduced from \$4.9 to \$4.1 million

\$2.0 million reduction in UAL payments



		‡		
		Orignal UAL Payments	Savings	
1	2020	358,954	328,516	30,438
2	2021	407,822	365,441	42,381
3	2022	448,946	393,989	54,957
4	2023	473,677	416,130	57,547
5	2024	499,720	439,484	60,236
6	2025	513,463	451,570	61,893
7	2026	527,583	463,988	63,595
8	2027	542,092	476,748	65,344
9	2028	556,999	489,858	67,141
10	2029	480,805	411,818	68,987
11	2030	494,027	423,143	70,884
12	2031	507,613	434,779	72,834
13	2032	500,831	425,994	74,837
14	2033	493,292	416,398	76,895
15	2034	476,735	397,726	79,009
16	2035	449,633	368,451	81,182
17	2036	401,243	317,829	83,414
18	2037	237,287	151,579	85,708
19	2038	204,078	116,012	88,065
20	2039	178,283	87,795	90,487
21	2040	161,522	68,546	92,975
22	2041	127,137	31,605	95,532
23	2042	121,175	23,015	98,159
24	2043	96,829	(4,030)	100,859
25	2044	49,406	(35,405)	84,811
26	2045	5,961	(55,835)	61,797
27	2046	0	(29,037)	29,037
28	2047	0	(35,579)	35,579
29	2048		(21,890)	21,890
29	2049		(4,187)	4,187
30	2050			-
		\$9,315,112	\$ 7,314,452	\$2,000,660

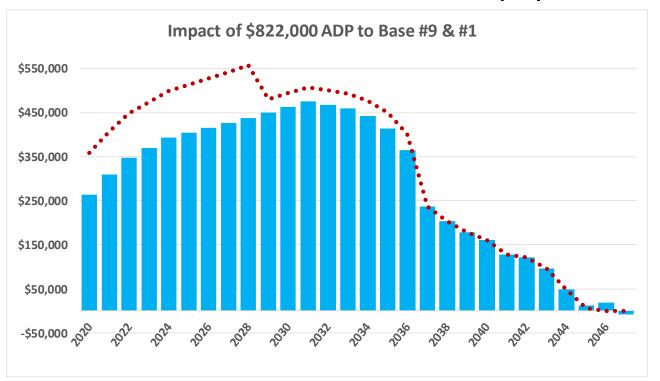


2. Additional Discretionary

Payments

Apply \$822,000 DSR to #9 & #1 UAL reduced from \$4.9 to \$4.1 million

■ \$1.2 million reduction in UAL payments



	Impact of ADPs #9 & #1								
		Orignal UAL Payments	\$822K AD: #9 & #1	Savings					
1	2020	358,954	263,444	95,510					
2	2021	407,822	309,685	98,137					
3	2022	448,946	348,111	100,835					
4	2023	473,677	370,068	103,608					
5	2024	499,720	393,263	106,457					
6	2025	513,463	404,078	109,385					
7	2026	527,583	415,190	112,393					
8	2027	542,092	426,608	115,484					
9	2028	556,999	438,339	118,660					
10	2029	480,805	450,394	30,411					
11	2030	494,027	462,779	31,247					
12	2031	507,613	475,506	32,107					
13	2032	500,831	467,841	32,990					
14	2033	493,292	459,396	33,897					
15	2034	476,735	441,906	34,829					
16	2035	449,633	413,846	35,787					
17	2036	401,243	364,472	36,771					
18	2037	237,287	237,287	-					
19	2038	204,078	204,078	-					
20	2039	178,283	178,283	-					
21	2040	161,522	161,522	-					
22	2041	127,137	127,137	-					
23	2042	121,175	121,175	-					
24	2043	96,829	96,829	-					
25	2044	49,406	49,406	-					
26	2045	5,961	11,969	(6,008)					
27	2046	0	18,750	(18,750)					
28	2047	0	(8,961)	8,961					
29	2048		(17,643)	17,643					
29	2049		(2,005)	2,005					
30	2050			-					
		\$9,315,112	\$ 8,082,753	\$1,232,359					

Impact of ADPs #9 & #1



NPV Savings \$1.2 million vs \$975,000

3. Pension Stabilization Fund - 115 Trust

Pension Stabilization Fund

- Reserves designed to offset additional future bases
- Provides greater budgetary relief than making ADPs
 - Pension Stabilization applied to the current year UAL payment
 - ADPs pay of base

Section 115 Trust

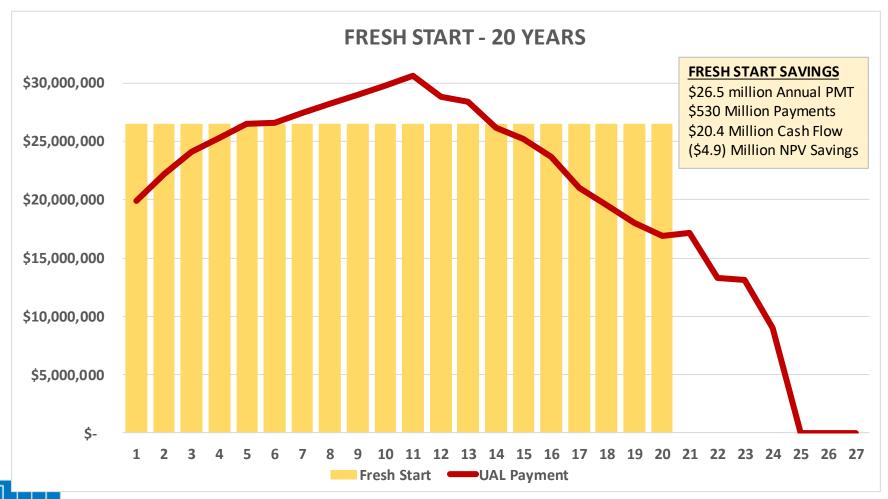
IRS legally restricted trust

- 1. Can only use monies to pay for (pension) designated costs
- 2. Alternative investments outside of limits of CA Investment Code
- Tool to manage pension liabilities
 - Manage timing risk
 - Pension Cost Stabilization
 Fund
 - Make additional annual payments



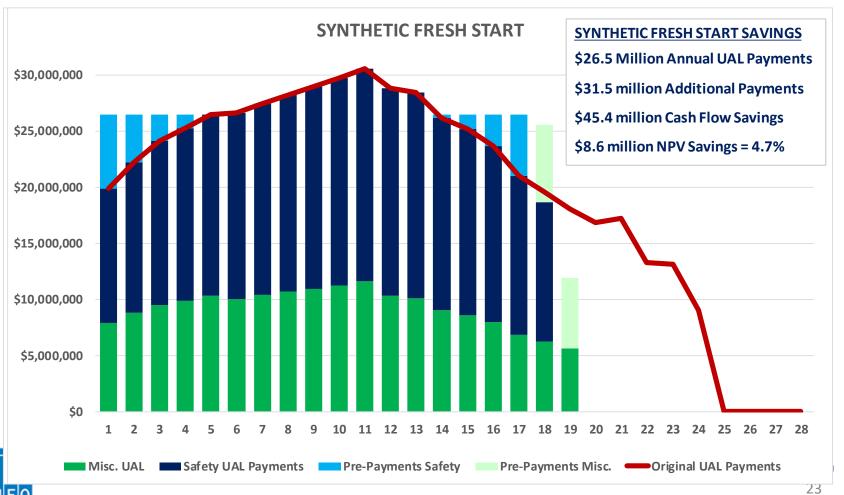
4. Fresh Start

Fresh Start "Locks In" Higher UAL Payments over Shorter Period Fresh Start cannot be modified afterward - Limits Financial Flexibility



4. Soft or Synthetic Fresh Start

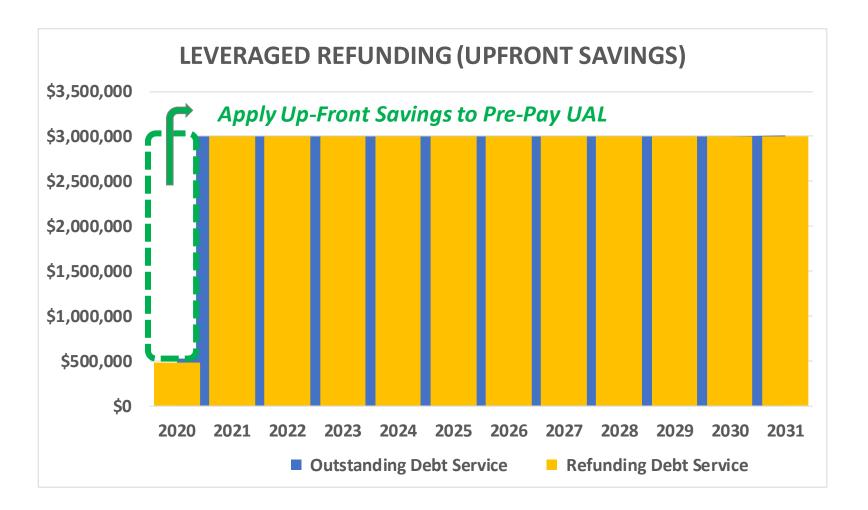
Soft or Synthetic Start retains current UAL payments. City makes "targeted" ADPs at its option. ADPs eliminate interest costs (greater savings) and retains flexibility.



Financing Mechanisms



5. Leveraged Refunding





6. Tax-Exempt Exchange

Tax-Exempt Bonds

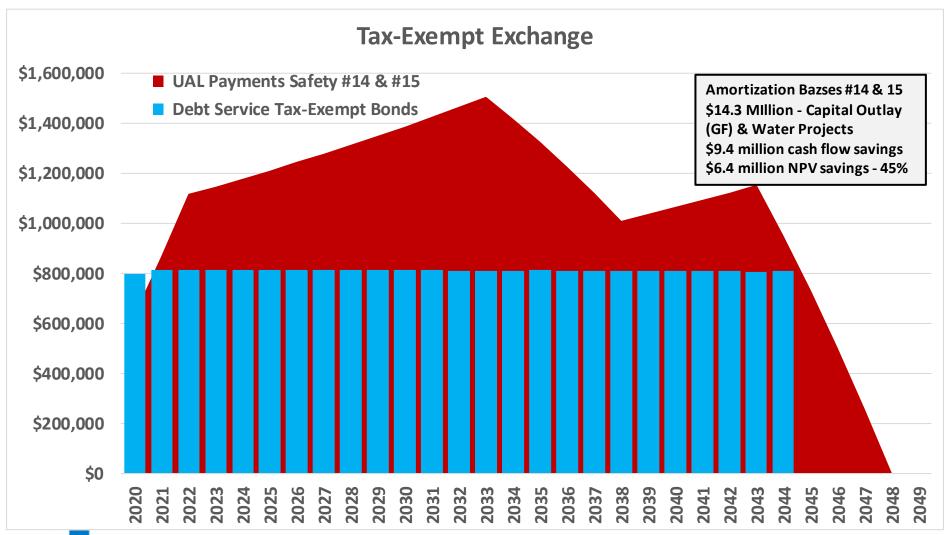
- 1. Identify "Pay-Go" Capital Project(s)
- 2. Issue Tax-Exempt
 Bonds to finance CIP

Budget Exchange

- 3. Reallocate Capital Project Budget to UAL
- 4. Pre-Pay UAL Bases with similar term
- UAL payments pay bond debt service
- 7.0% CalPERS liability refinanced using taxexempt rates ~2.0%



6. Tax-Exempt Exchange





Key Terms of GFOA POB Advisory

POBs are complex instruments that carry considerable risk.....

- 1. Increase debt burden/reduce capacity (flexibility)
- 2. "Make-whole" call features
- Finance normal costs or extend repayment period.
- 4. Part of a comprehensive plan to address pension shortfalls
- 5. Invested POB proceeds may fail to earn more than interest rate on the bonds

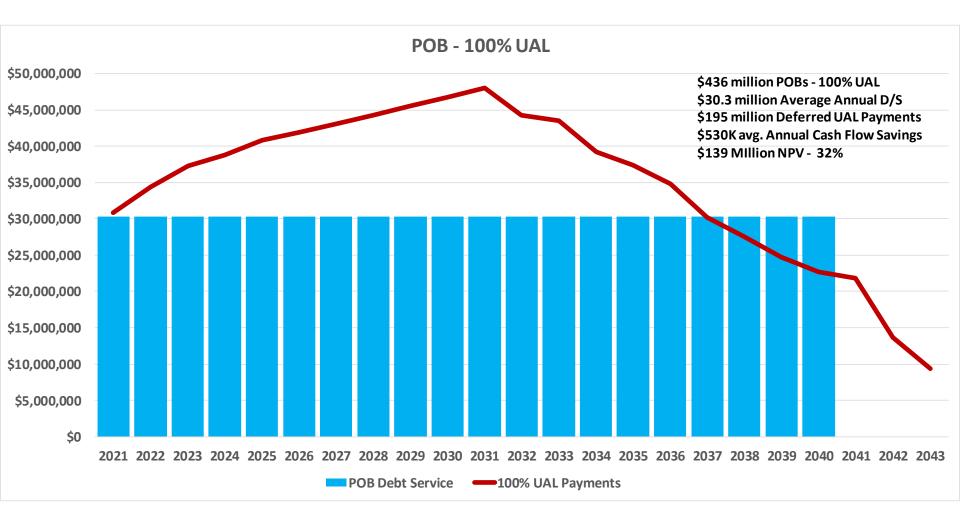
Only issue plain-vanilla Fixed Rate Bonds (no swaps)

- 1. POBs refinance existing debt GASB 68 on Balance Sheet.
- 2. Standard 10-year call
- 3. Repay UAL same or shorter amortization period
- 4. Pension Funding Policy with multiple solutions
- 5. Savings provide cushion.

 Hedging: Floor or Dollar-CostAveraging

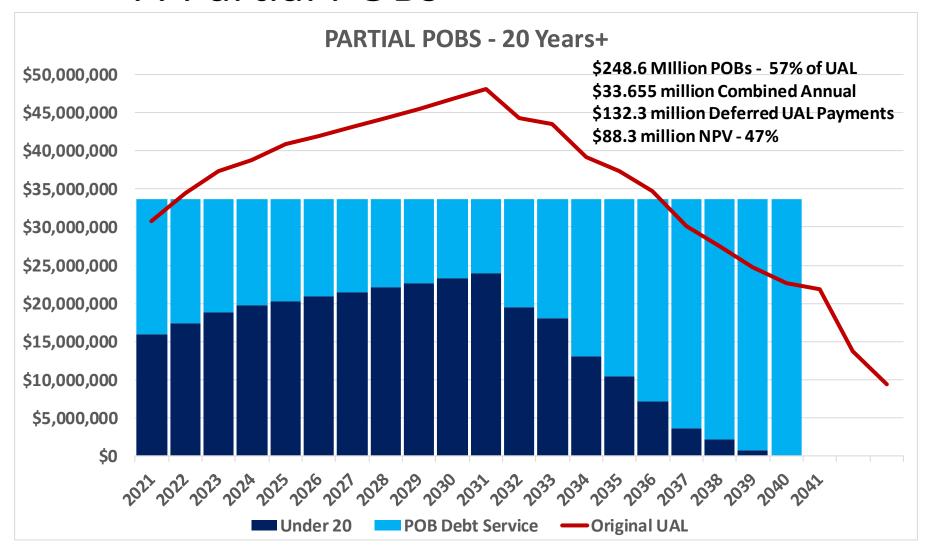


7. Pension Obligation Bonds





7. Partial POBs

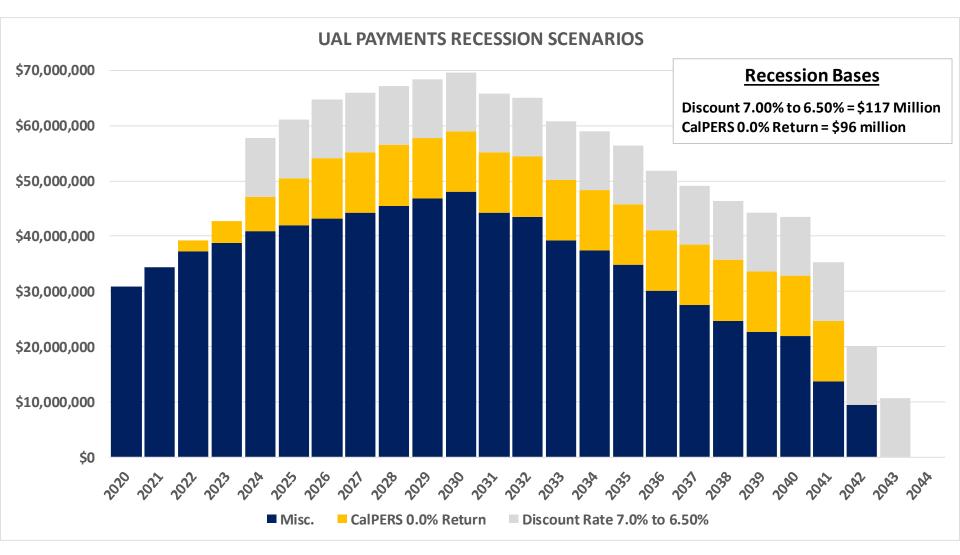




Recession Scenarios

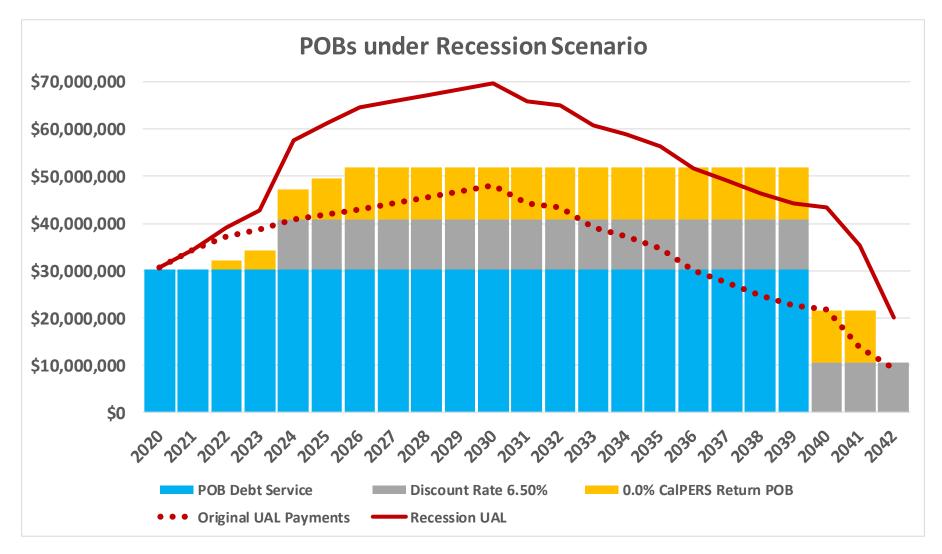


Recession Scenario





Impact of Recession on POB Savings







Julio Morales
Director
juliom.@urbanfutureinc.com
626-298-9583

Julio has over twenty-five years of working in the areas of public and corporate finance, city management, municipal budgeting and financial leadership. He is a MSRB Municipal Advisor Qualified Representative (Series 50).

He served as the City Manager and Finance Director for the City of Huntington Park and the Finance Director for the City of El Monte. He guided both cities resolve their "structural deficits".

Most recently, Julio worked for the Department of the Treasury's Office of Technical Assistance (OTA), providing financial advice to the Treasurer of Paraguay, helping to streamline and automate their operations. Mr. Morales also has experience in public and corporate finance, having served as an investment banker with Bank of America, a financial advisor at PFM & Fieldman-Rolapp, derivative/GIC for Transamerica, and managed the debt for the City of Oakland.

Julio earned his undergraduate degree from the University of Michigan, a Master of Public Policy (MPP) from the Harvard Kennedy School of Government, and an MBA from UCLA, where he was a Dean's Fellowship Recipient.

