

San José Police & Fire Department Retirement Plan

4d(2)



2025 Final Pension Valuation Results

December 4, 2025

Bill Hallmark, ASA, EA, MAAA, FCA
Anne Harper, FSA, EA, MAAA

Agenda



Schedule

Summary of Valuation Results

Baseline Projections

Plan Maturity and Sensitivity

Projection Scenarios

Appendix

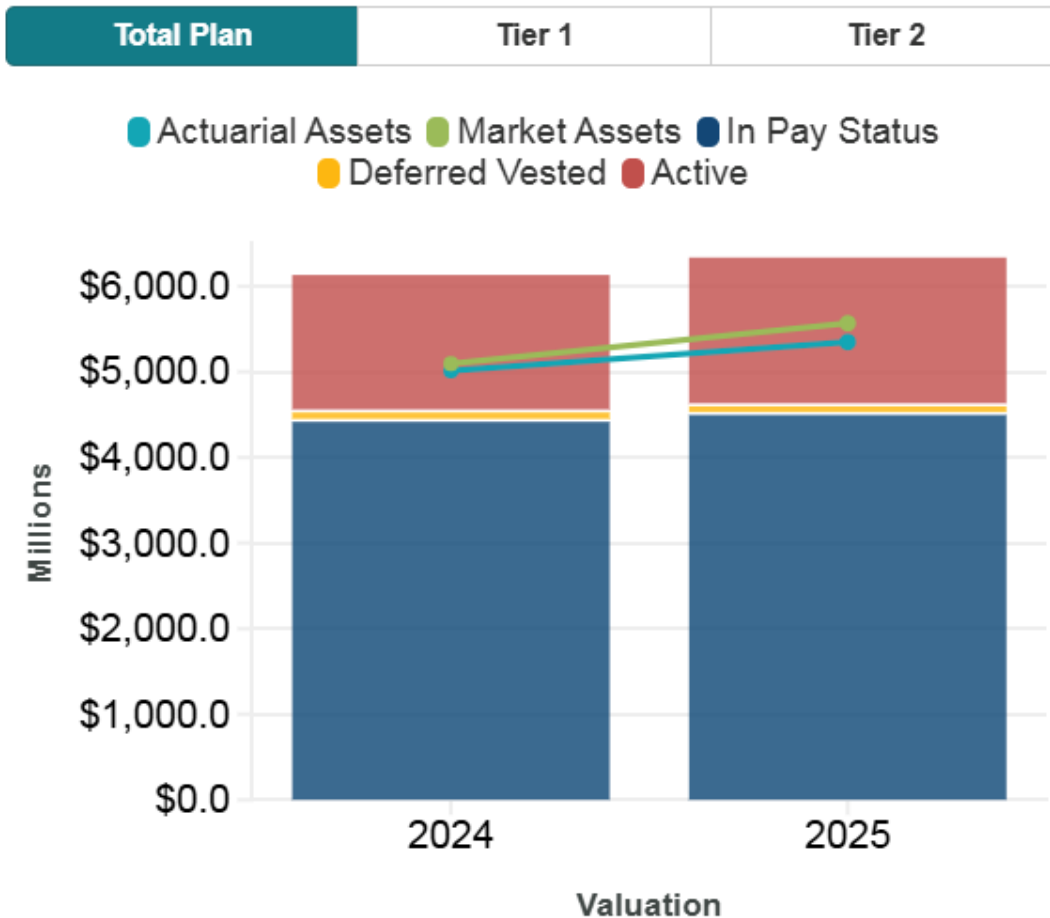


- October Board Meeting
 - Pension Economic Assumption Review
- November Board Meeting
 - Preliminary Pension Valuation Results
 - Demographic Experience Study
 - OPEB Assumptions Review
- **December Board Meeting**
 - **Final Pension Valuation Presentation**
 - **Final Pension Valuation Report**
 - **Preliminary OPEB Valuation Results**
- January Board Meeting
 - No Presentation
- February Board Meeting
 - Final OPEB Valuation Presentation
 - Final OPEB Valuation Report

Funded Status



Funded Status



Funded Status By Tier

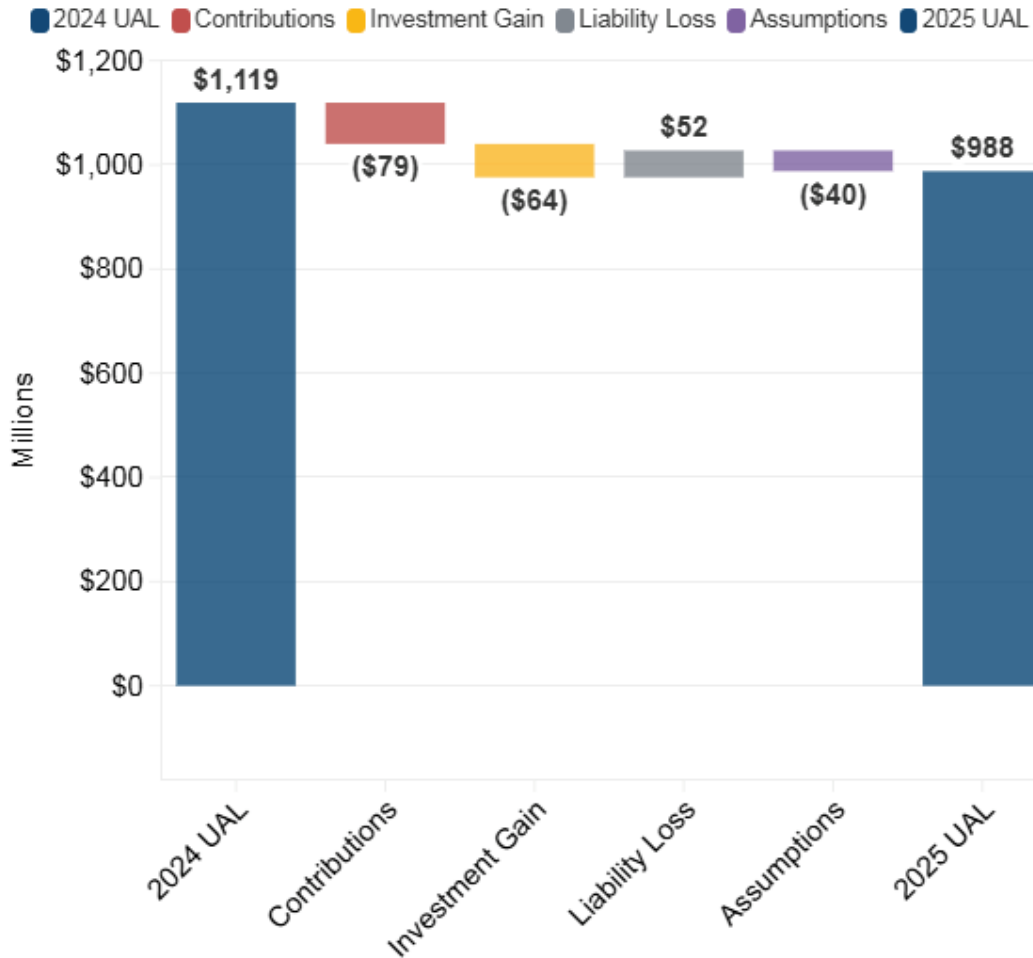
	6/30/2024	6/30/2025	Change
Tier 1			
Actuarial Liability	\$ 5,954.3	\$ 6,097.3	2.4%
AVA	4,823.0	5,104.7	5.8%
UAL-AVA Basis	1,131.4	992.5	-12.3%
AVA Funded Ratio	81.0%	83.7%	2.7%
MVA	4,903.0	5,316.0	8.4%
UAL-MVA Basis	1,051.3	781.3	-25.7%
MVA Funded Ratio	82.3%	87.2%	4.8%
Tier 2			
Actuarial Liability	\$ 178.5	\$ 239.2	34.0%
AVA	190.7	244.0	28.0%
UAL-AVA Basis	(12.2)	(4.9)	-59.9%
AVA Funded Ratio	106.8%	102.0%	-4.8%
MVA	193.4	253.0	30.8%
UAL-MVA Basis	(14.9)	(13.8)	-7.5%
MVA Funded Ratio	108.4%	105.8%	-2.6%

Amounts in millions

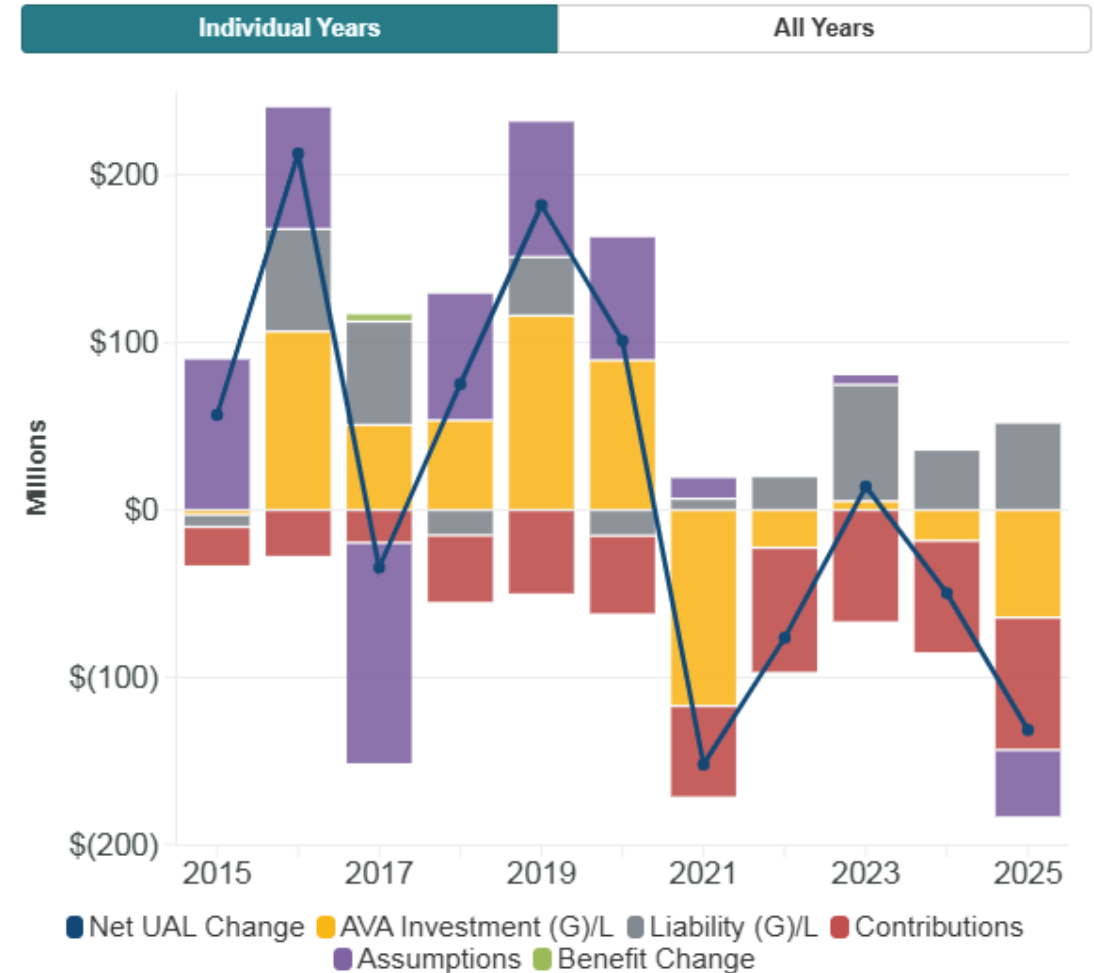
Changes in UAL Based on Actuarial Assets



Change in UAL Based on Actuarial Assets



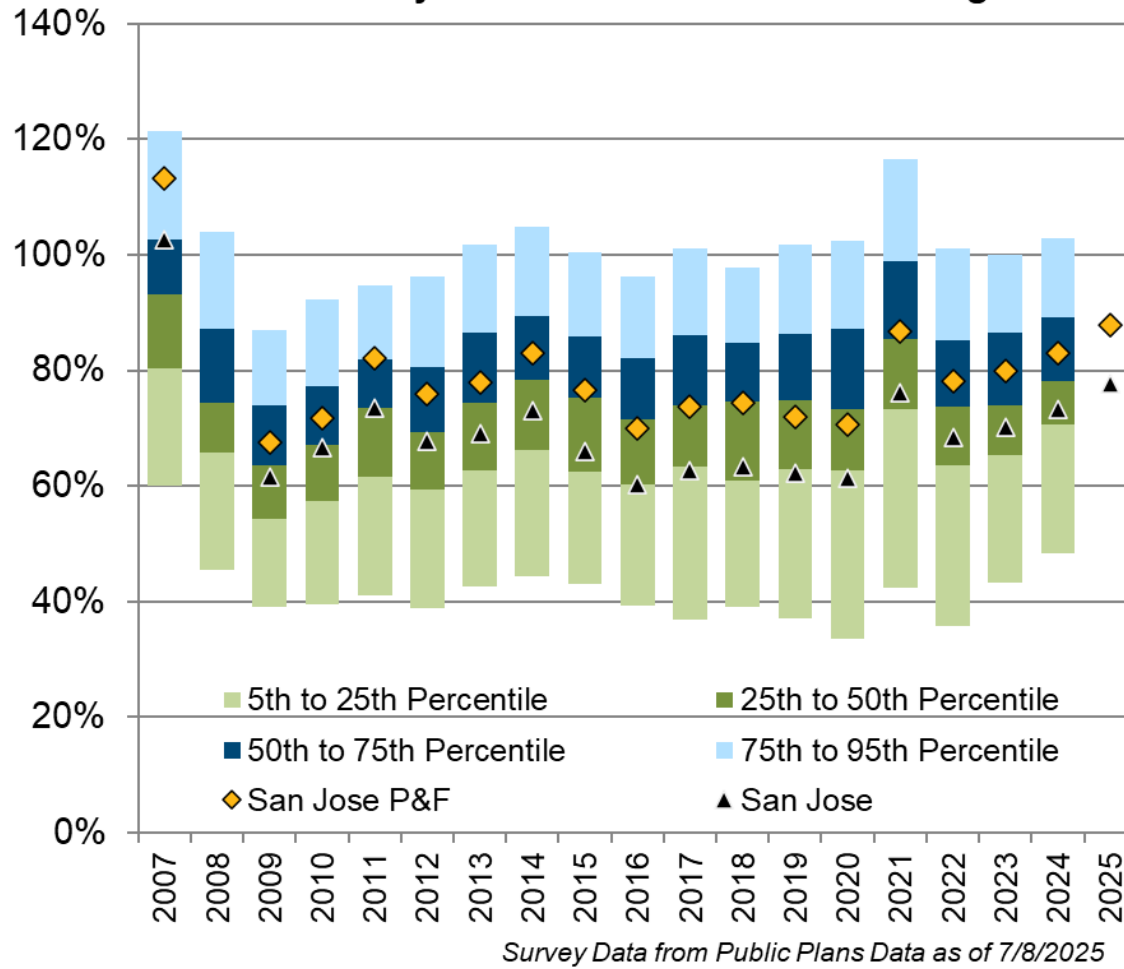
Changes in UAL



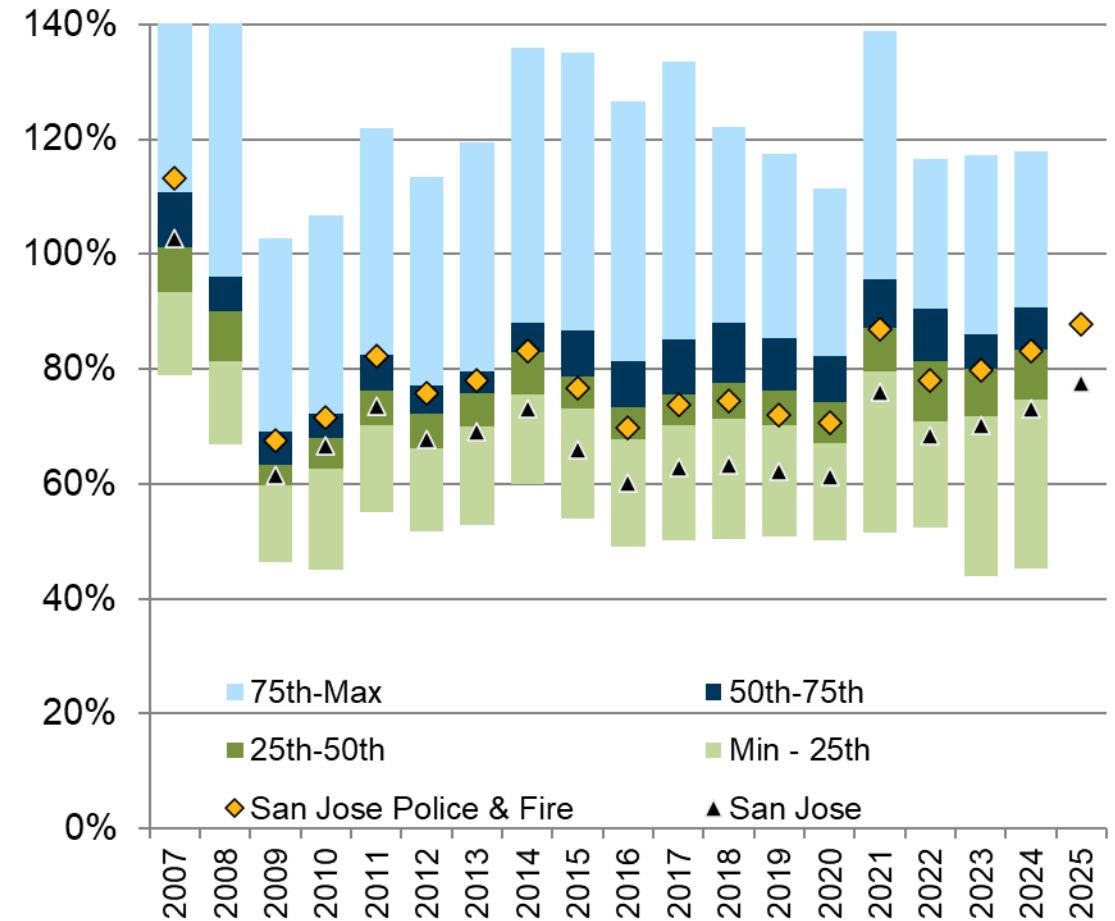
Comparison of Funded Ratio (Market Value of Assets)



National Survey Data from PublicPlansData.org



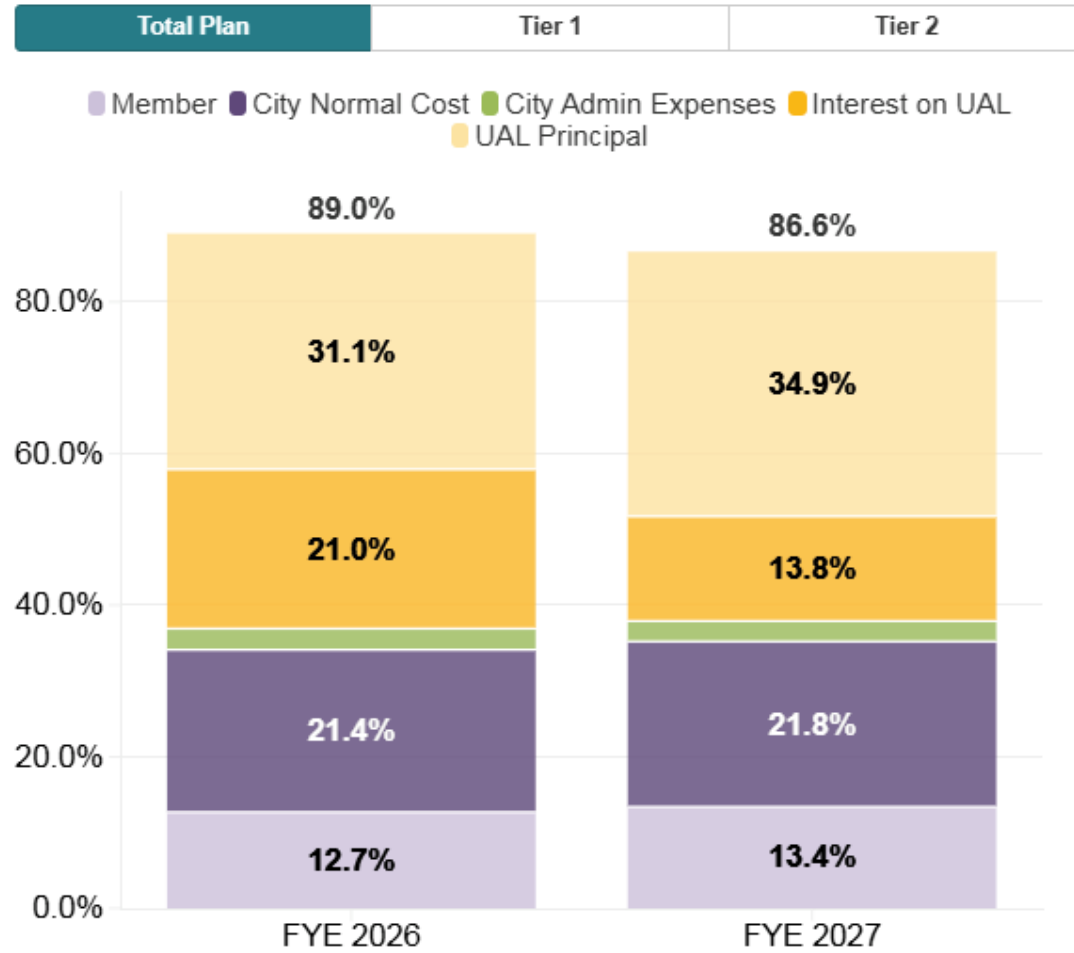
Cheiron Survey of California Systems



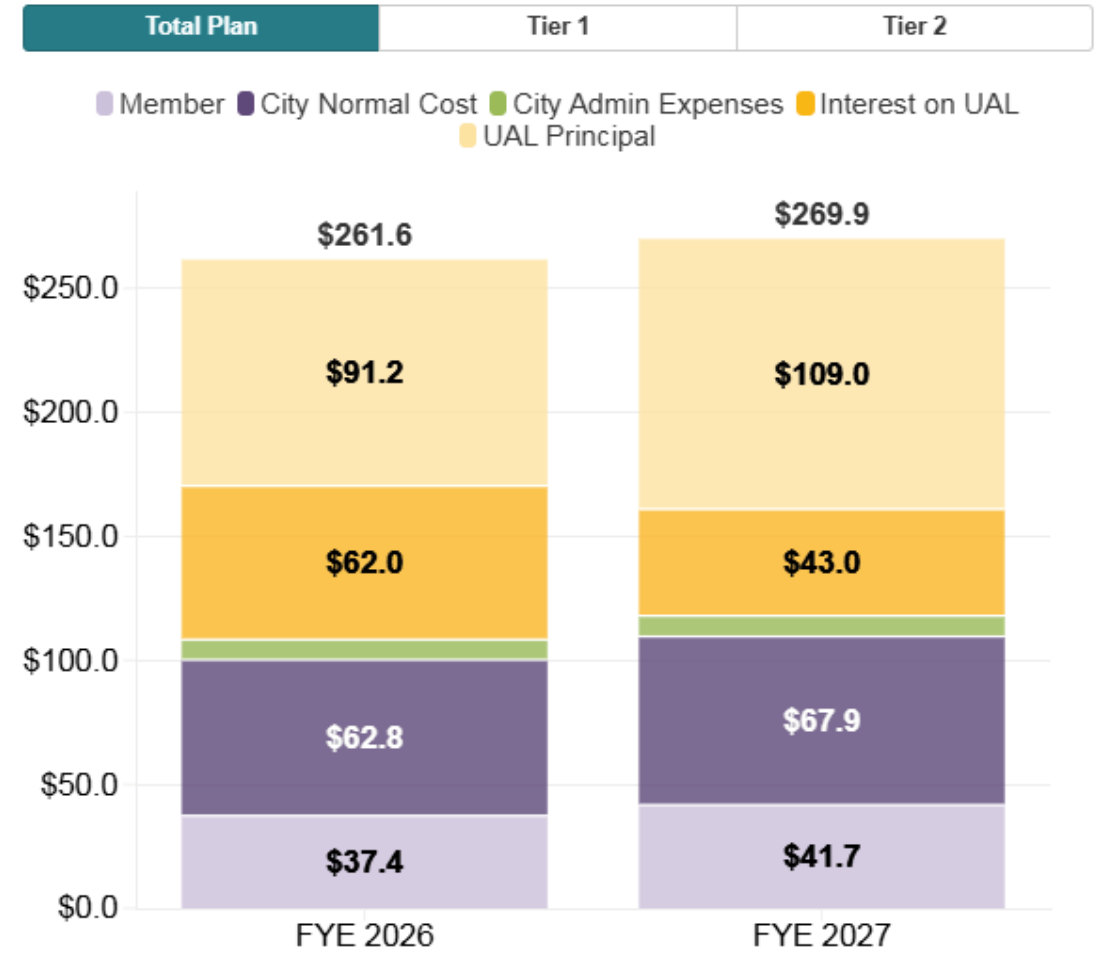
Final FYE 2027 Contributions



Contribution Rates



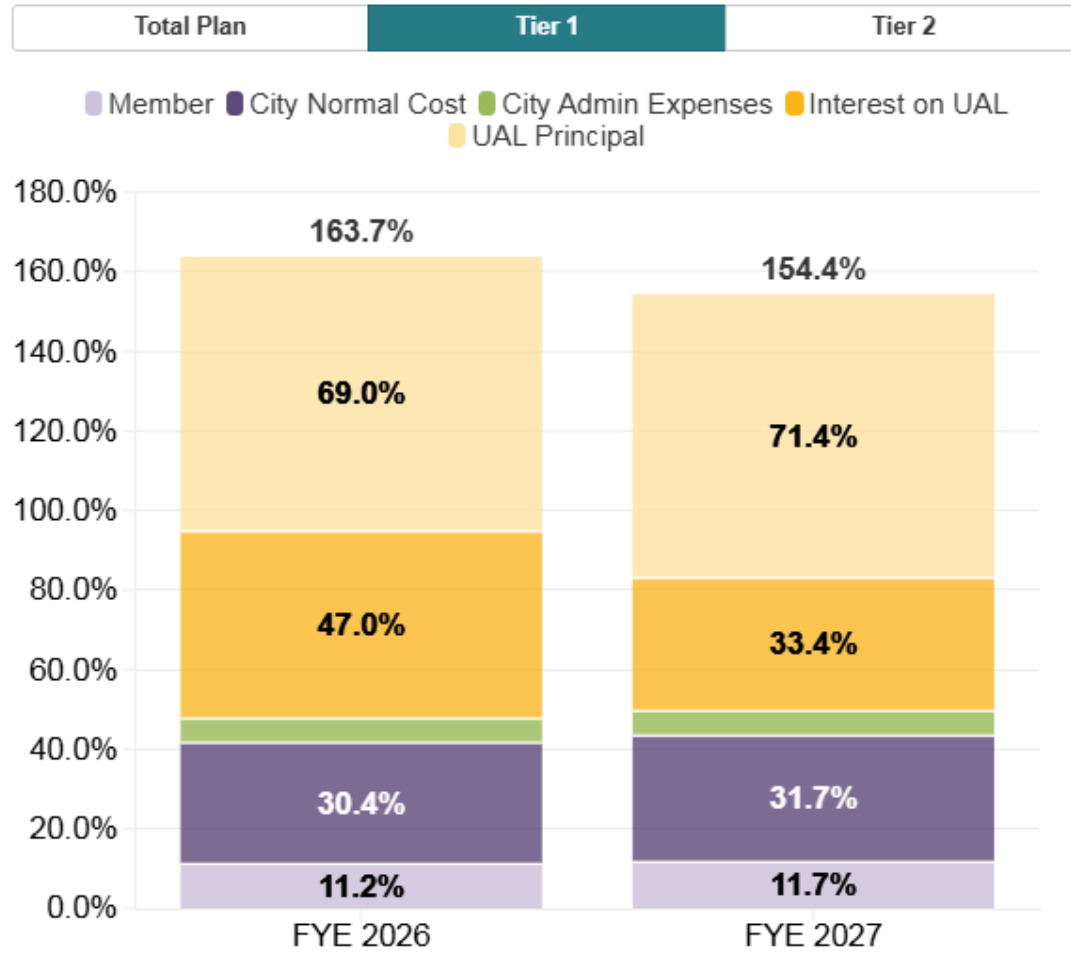
Contribution Amounts



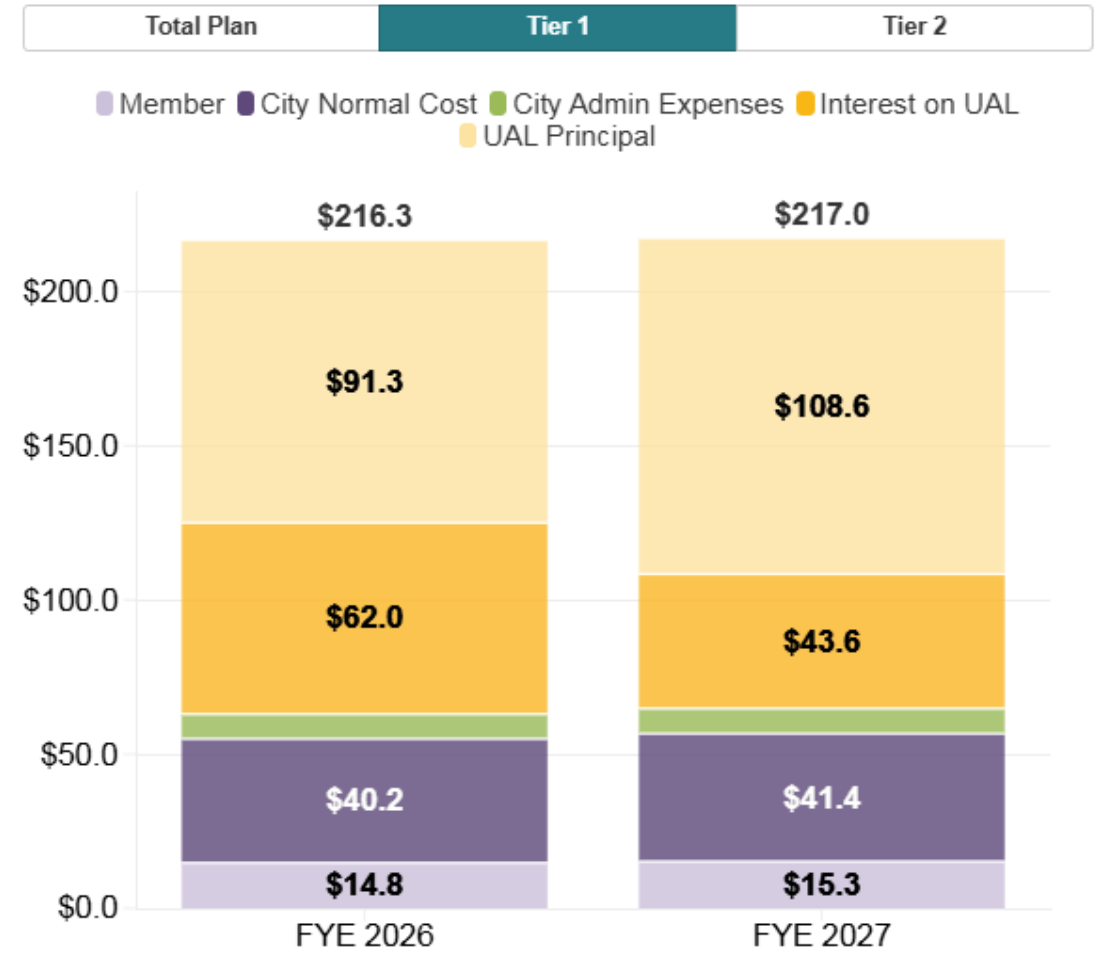
Final FYE 2027 Contributions



Contribution Rates



Contribution Amounts



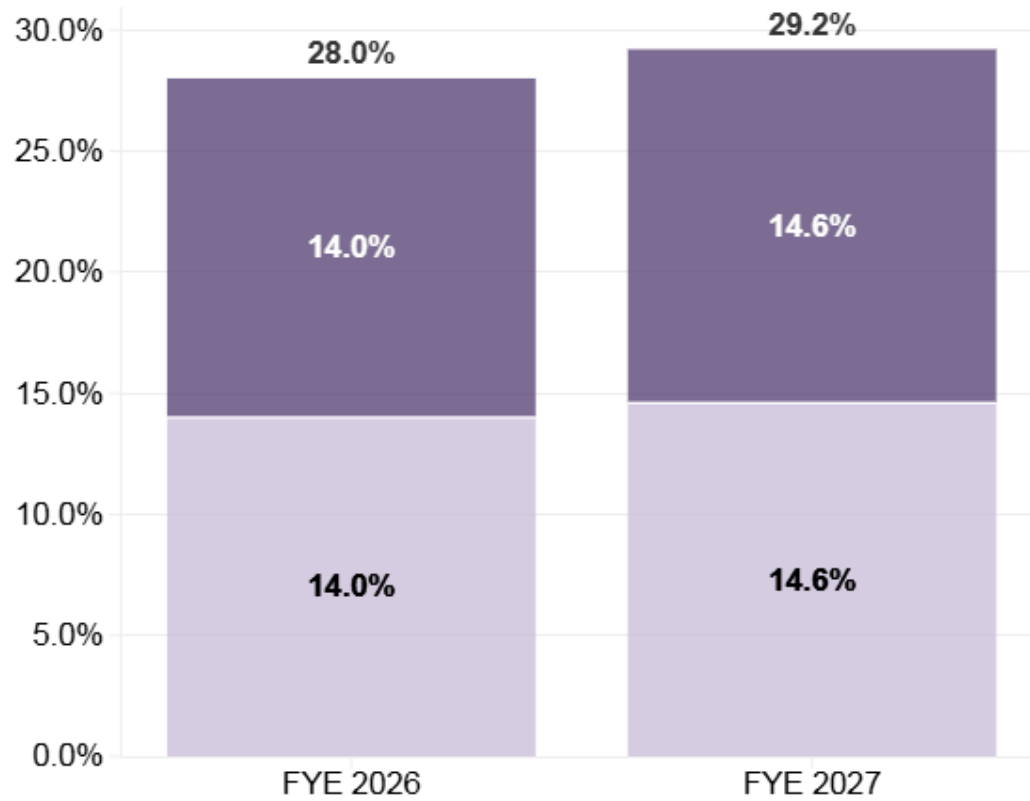
Final FYE 2027 Contributions



Contribution Rates

Total Plan	Tier 1	Tier 2
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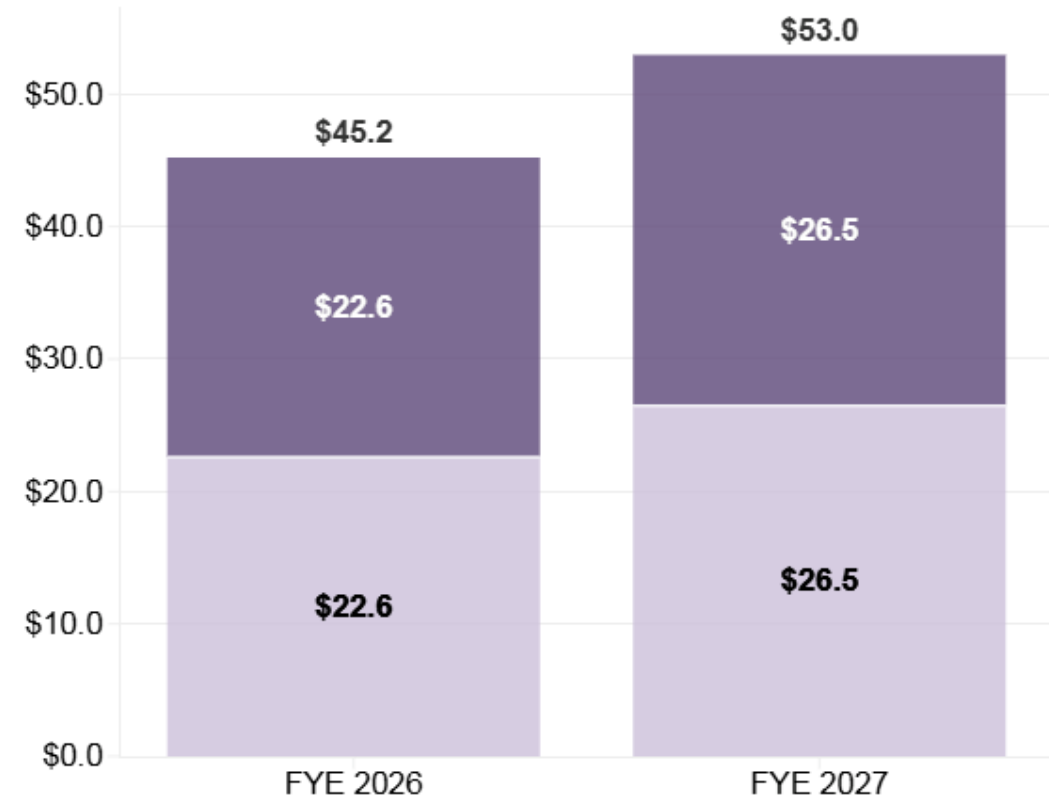
Member City Normal Cost



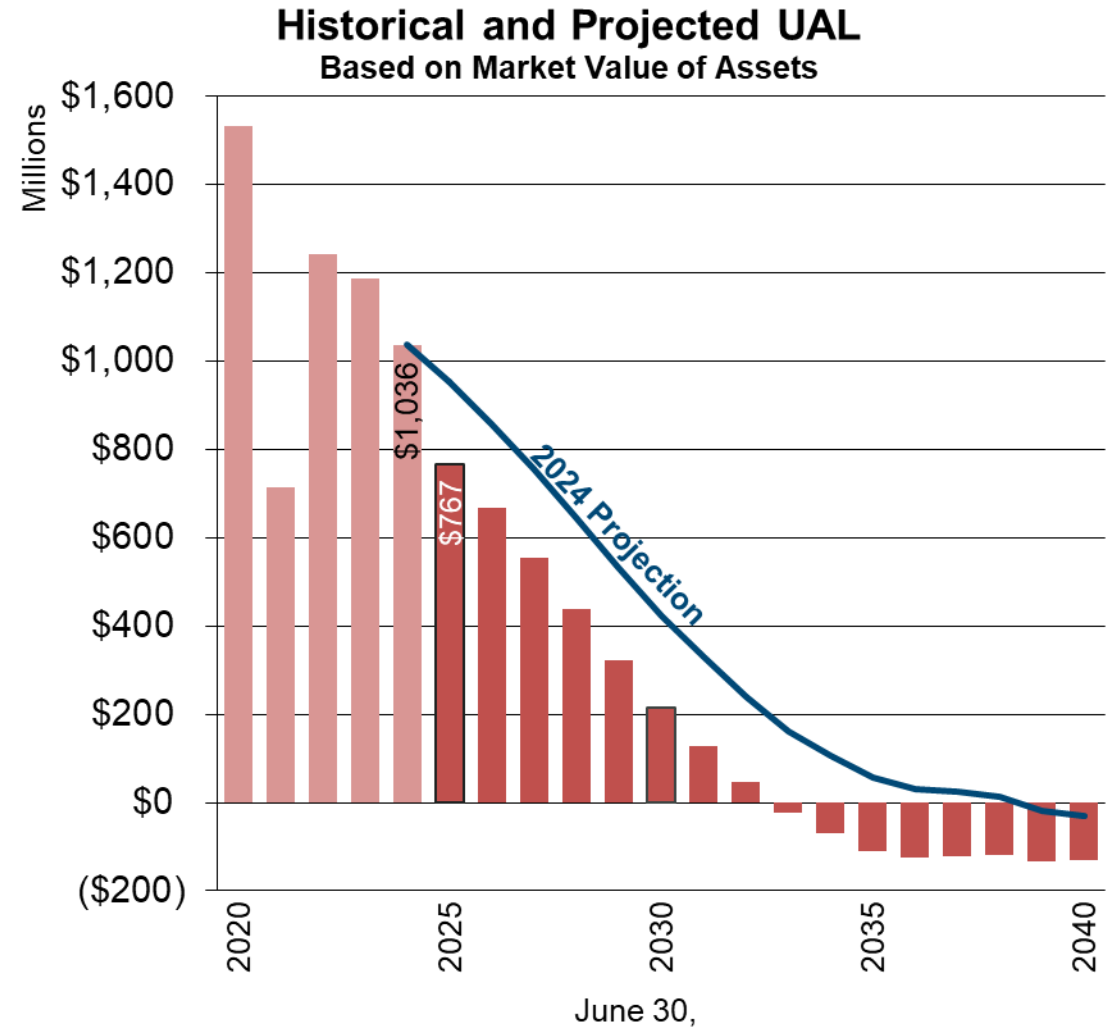
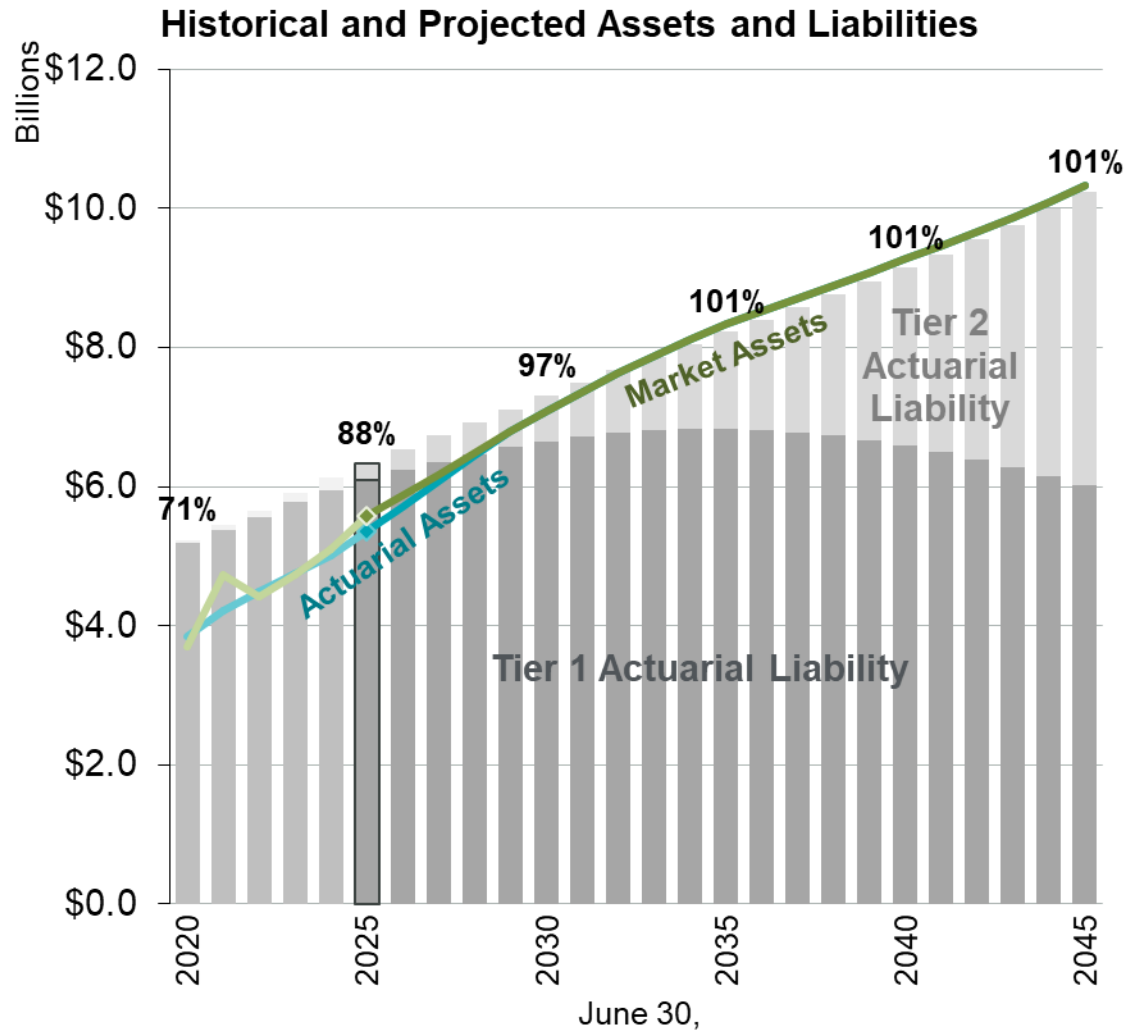
Contribution Amounts

Total Plan	Tier 1	Tier 2
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Member City Normal Cost



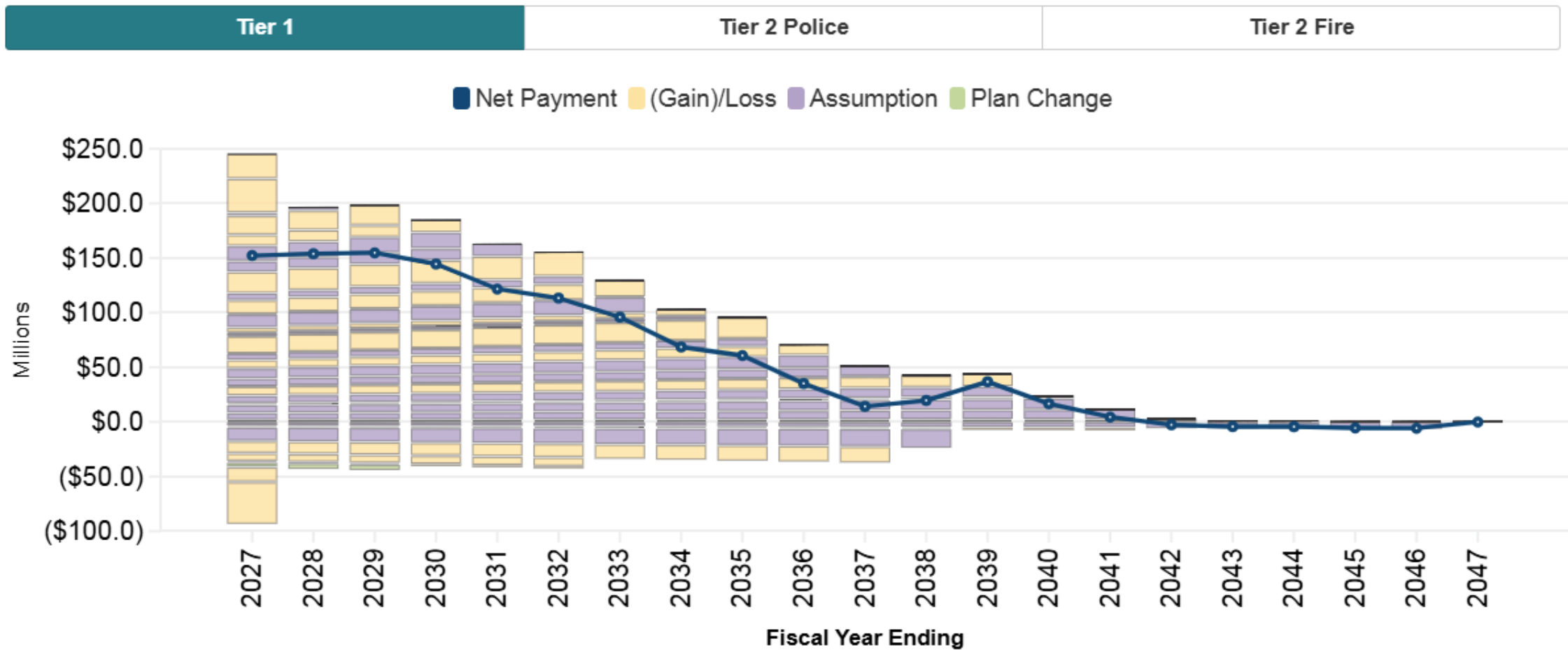
Baseline Projections – Funded Status and UAL



Current Tier 1 Amortization Layers



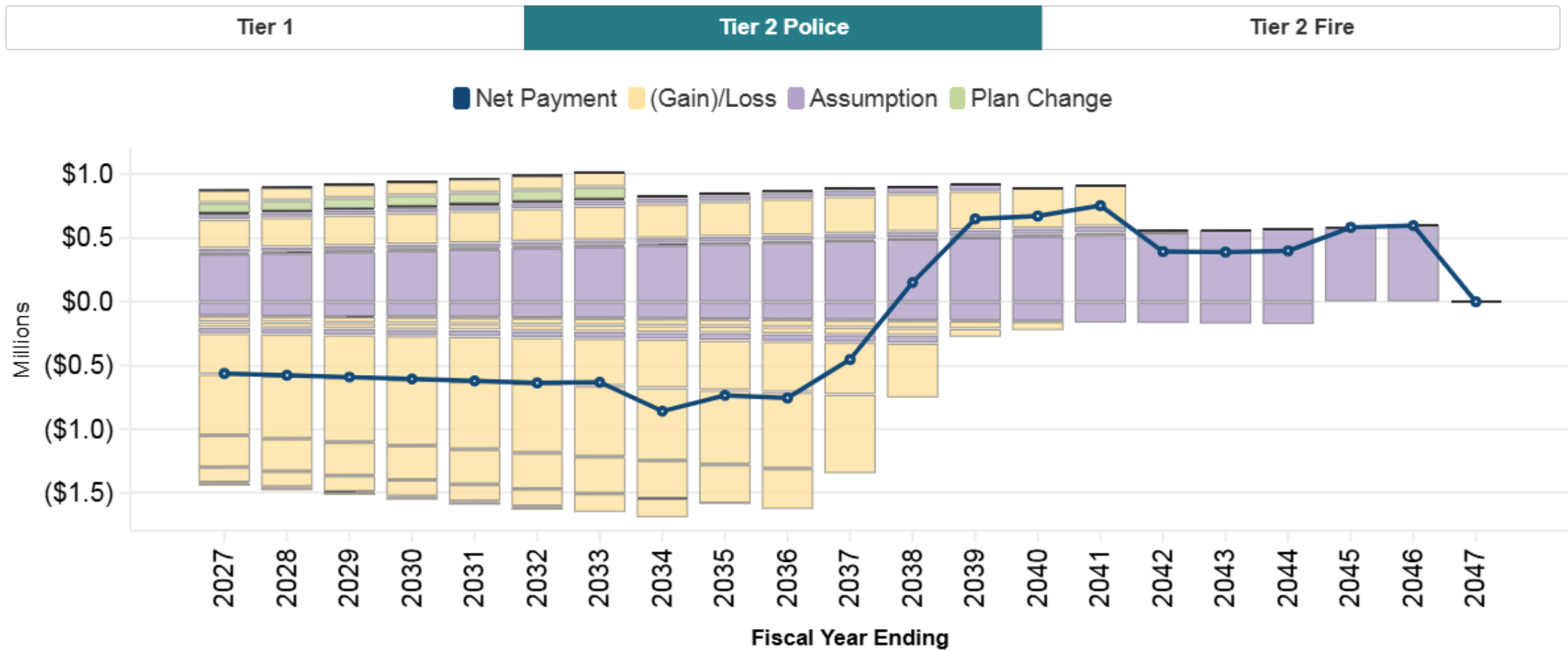
Amortization Payment Layers



Current Tier 1 Amortization Layers



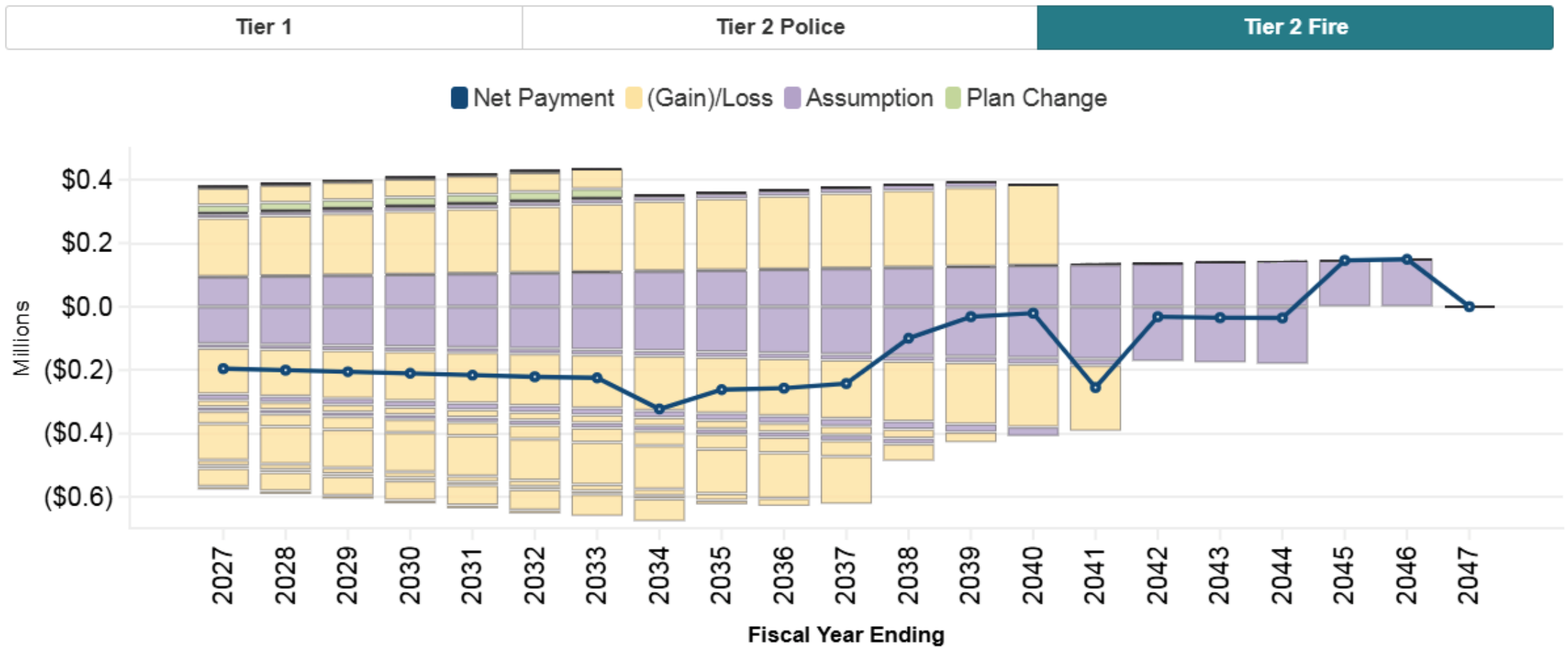
Amortization Payment Layers



Current Tier 1 Amortization Layers



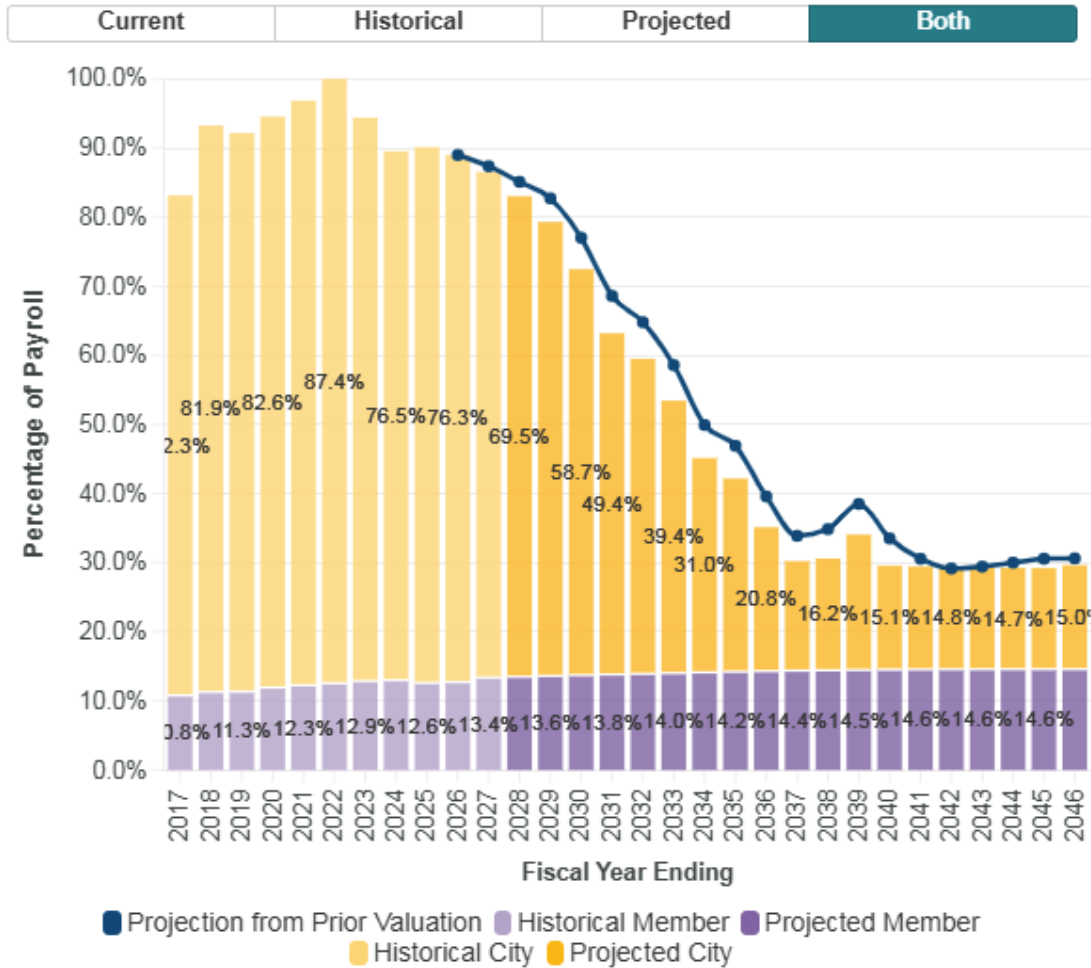
Amortization Payment Layers



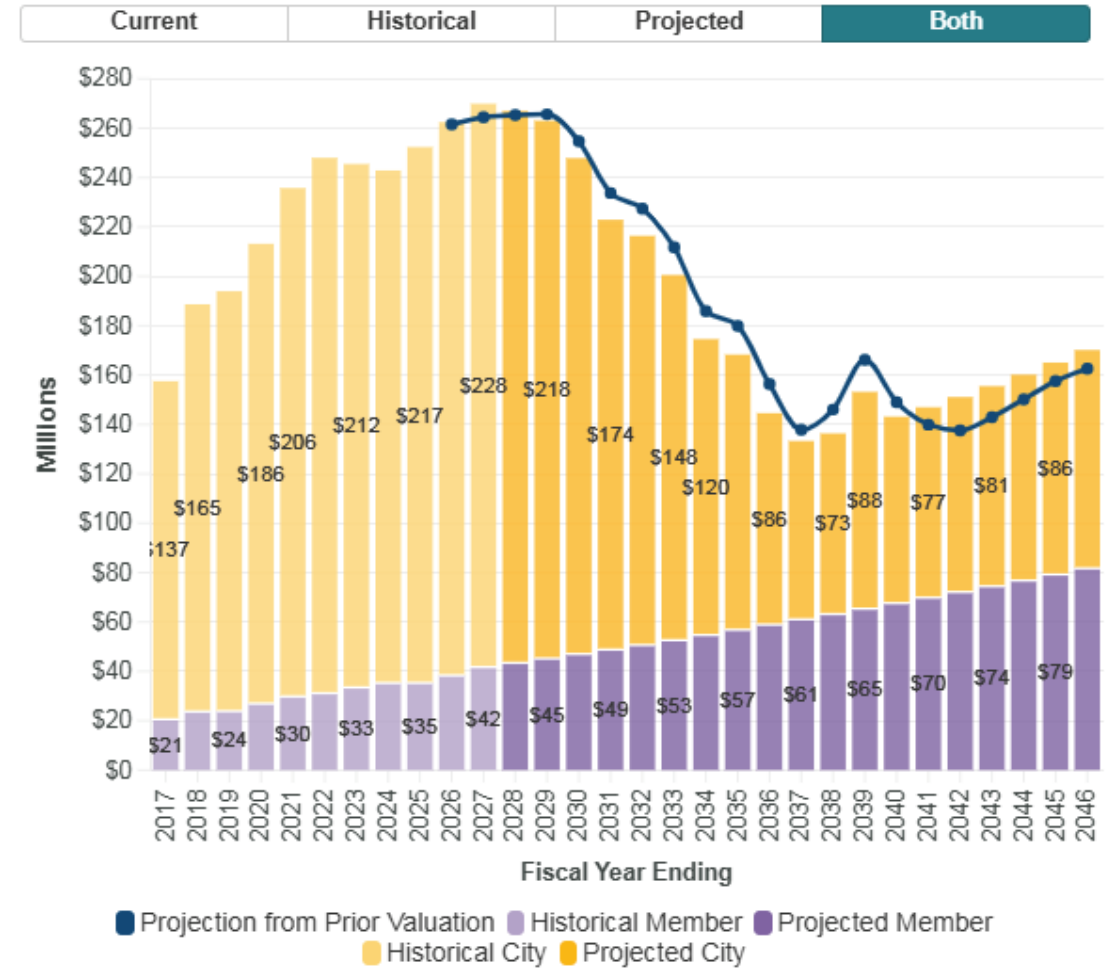
Baseline Projections – Contributions



Historical and Projected Contribution Rates



Historical and Projected Contribution Amounts



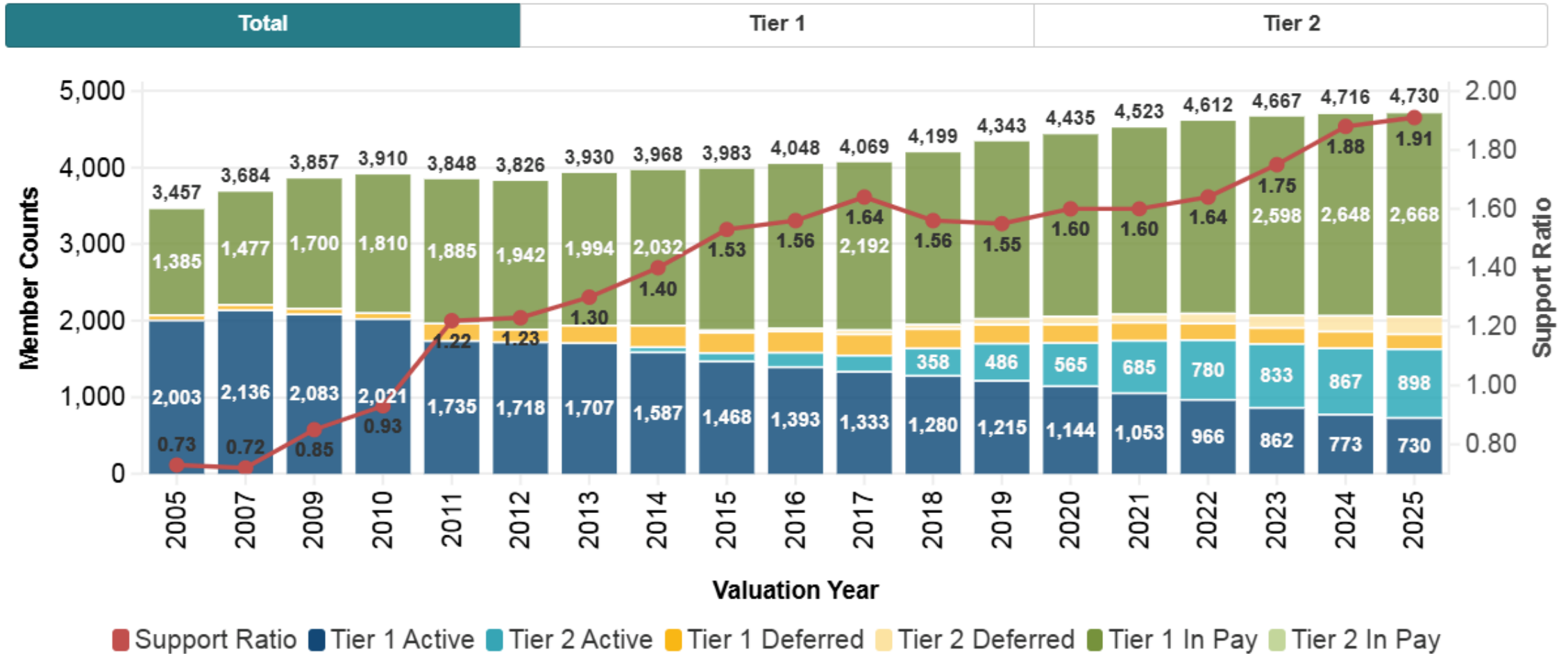


Mature Pension Plans Are More Sensitive to Risk

Membership Trends



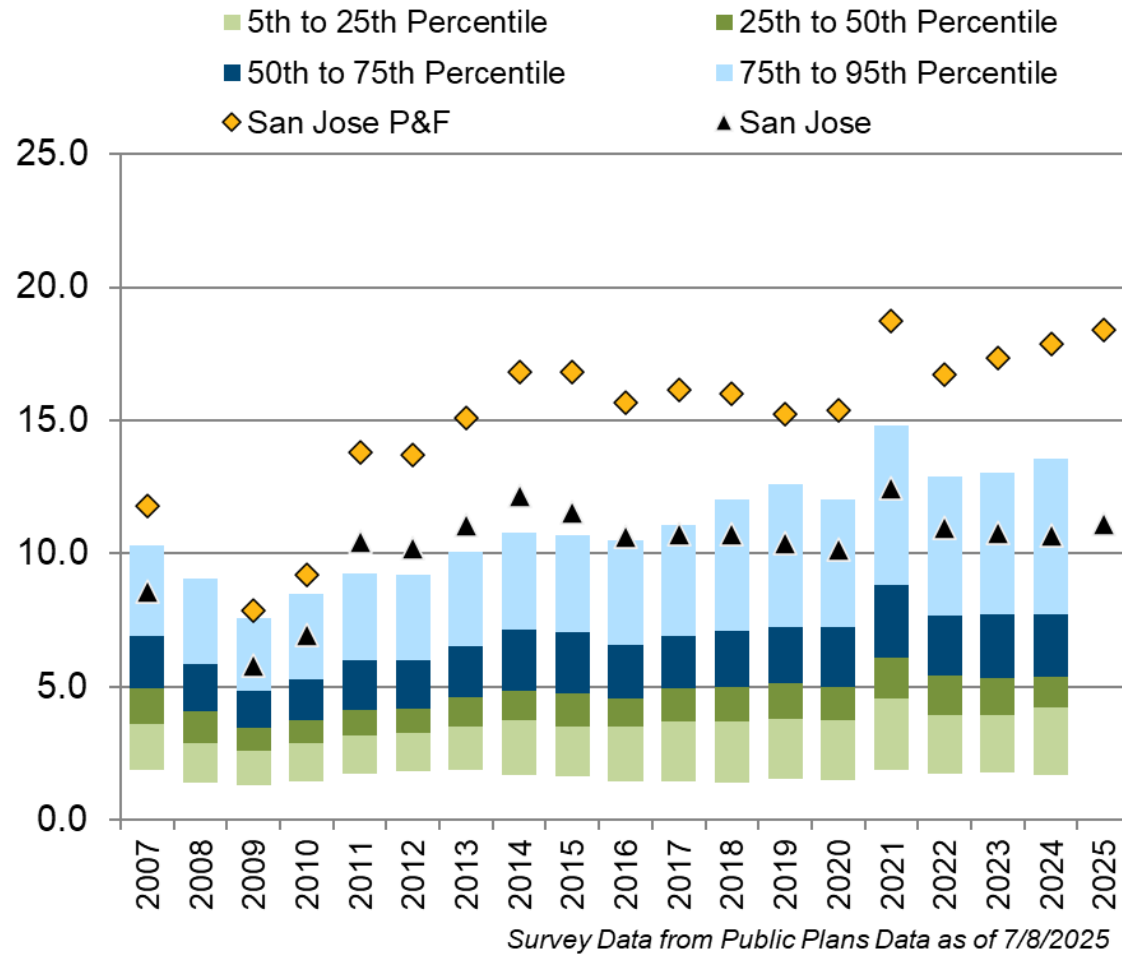
Membership Trends



Leverage Ratios



Asset Leverage Ratio



Liability Leverage Ratio

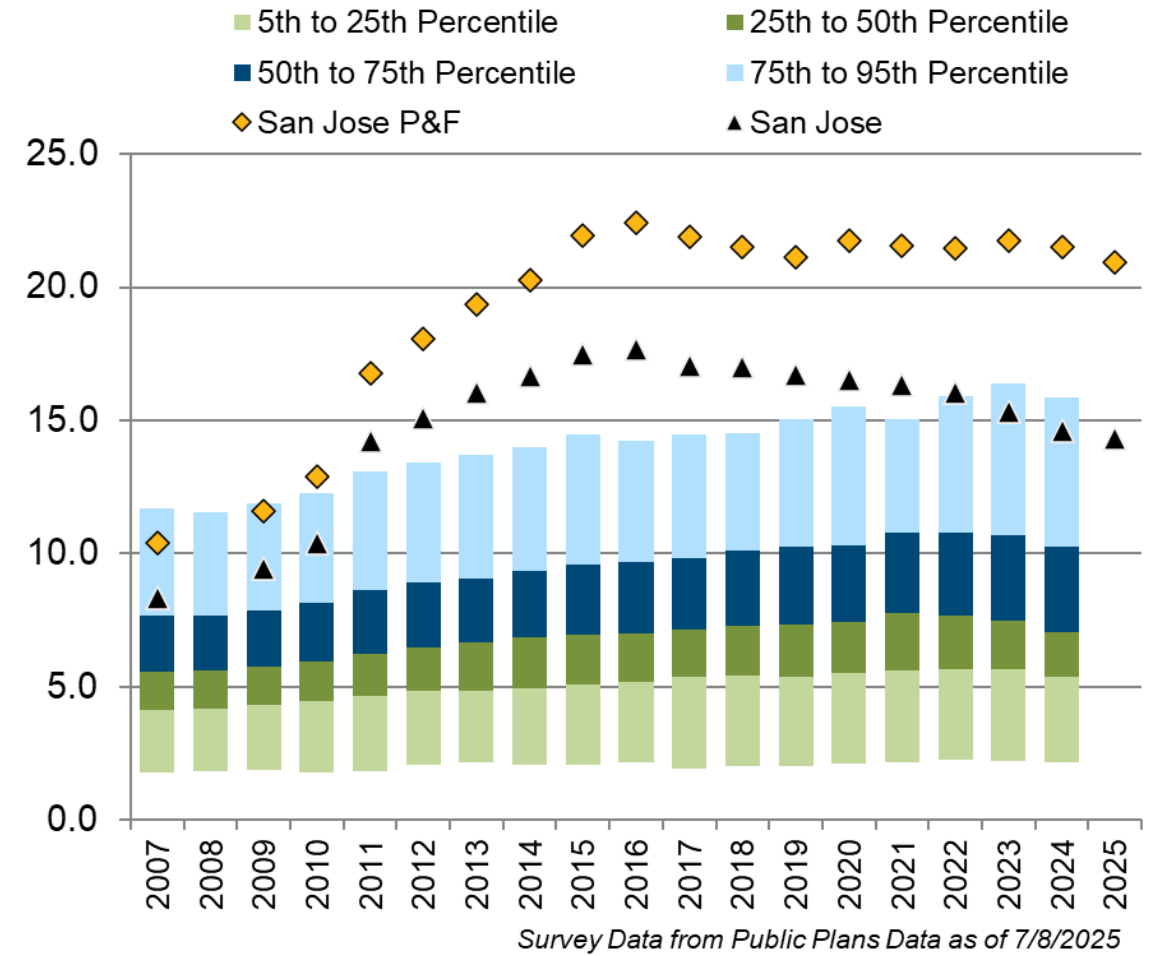
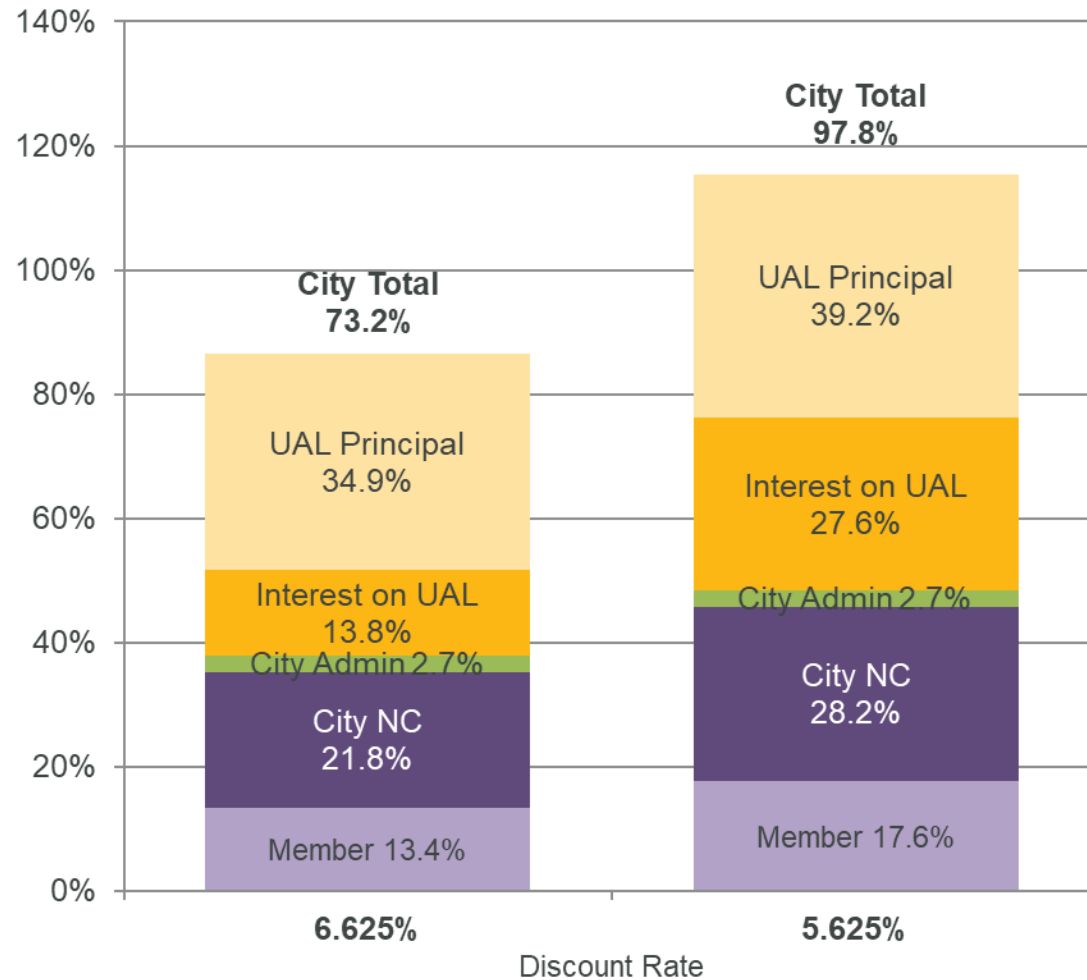


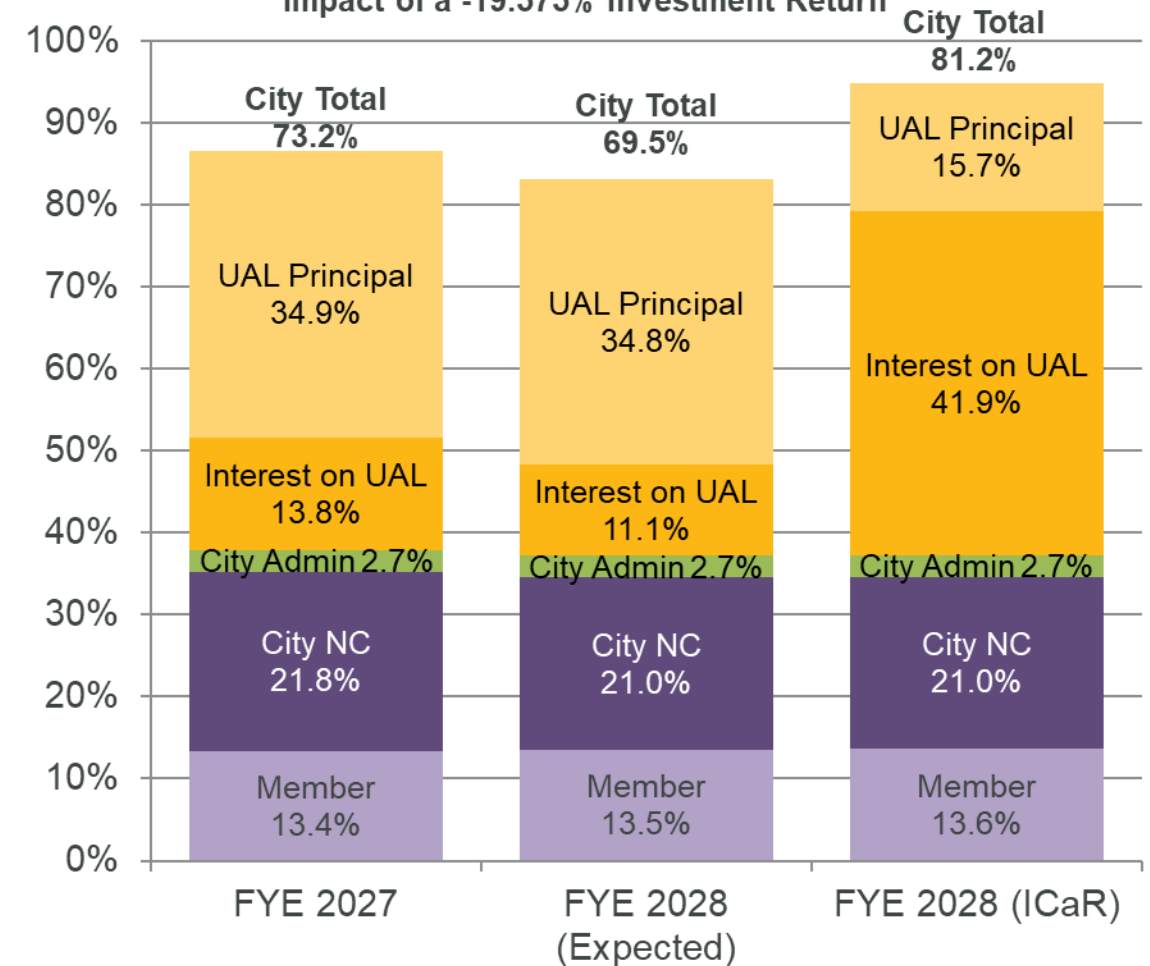
Illustration of Sensitivity



Discount Rate Change Impact



Interest Cost at Risk Impact of a -19.575% Investment Return



Projection Scenarios



Stress Testing Scenarios



- Scenarios are intended to illustrate the range of potential contributions
 - Based on Meketa's 10-year capital market assumptions
 - Impact of asset smoothing and amortization
 - Volatility due to plan maturity
- Not intended to be realistic economic scenarios

Annual Average Investment Return

Percentile	1 Year	5 Years
95 th	30.7%	17.1%
75 th	16.2%	11.1%
25 th	-1.3%	3.3%
5 th	-12.2%	-2.0%

Deterministic Scenarios

FYE	1-Year Shock		5-Year Moderate	
2025	-12.2%	30.7%	3.3%	11.1%
2026	6.625%	6.625%	3.3%	11.1%
2027	6.625%	6.625%	3.3%	11.1%
2028	6.625%	6.625%	3.3%	11.1%
2029	6.625%	6.625%	3.3%	11.1%
2030+	6.625%	6.625%	6.625%	6.625%

Stress Testing Scenarios

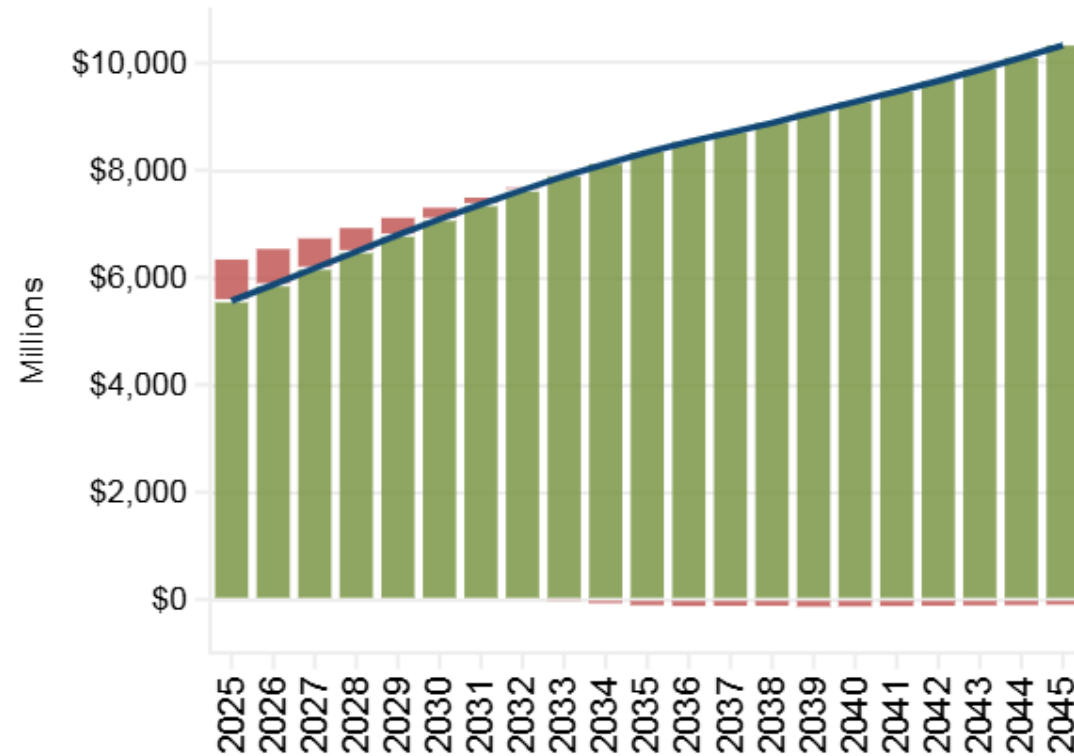


Deterministic Scenarios

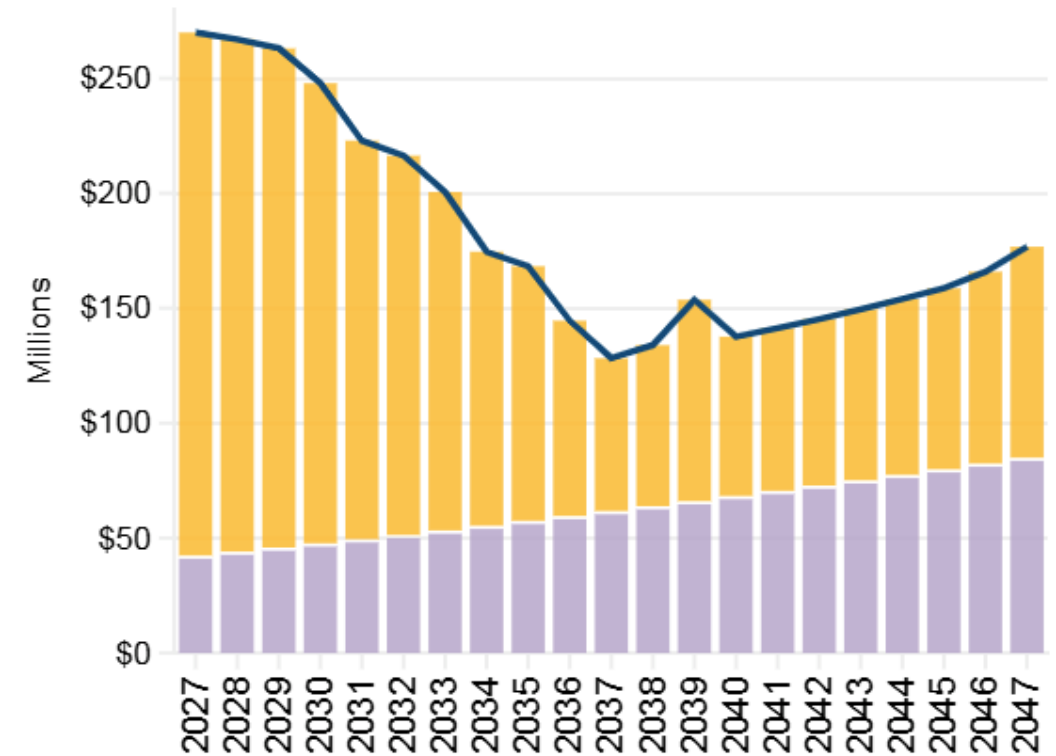
Scenario	Baseline	1-Yr Shock Neg	1-Yr Shock Pos	5-Yr Moderate Neg	5-Yr Moderate Pos
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■ Baseline ■ Assets ■ UAL ■ Member ■ City

Assets and Liabilities



Contribution



Stress Testing Scenarios

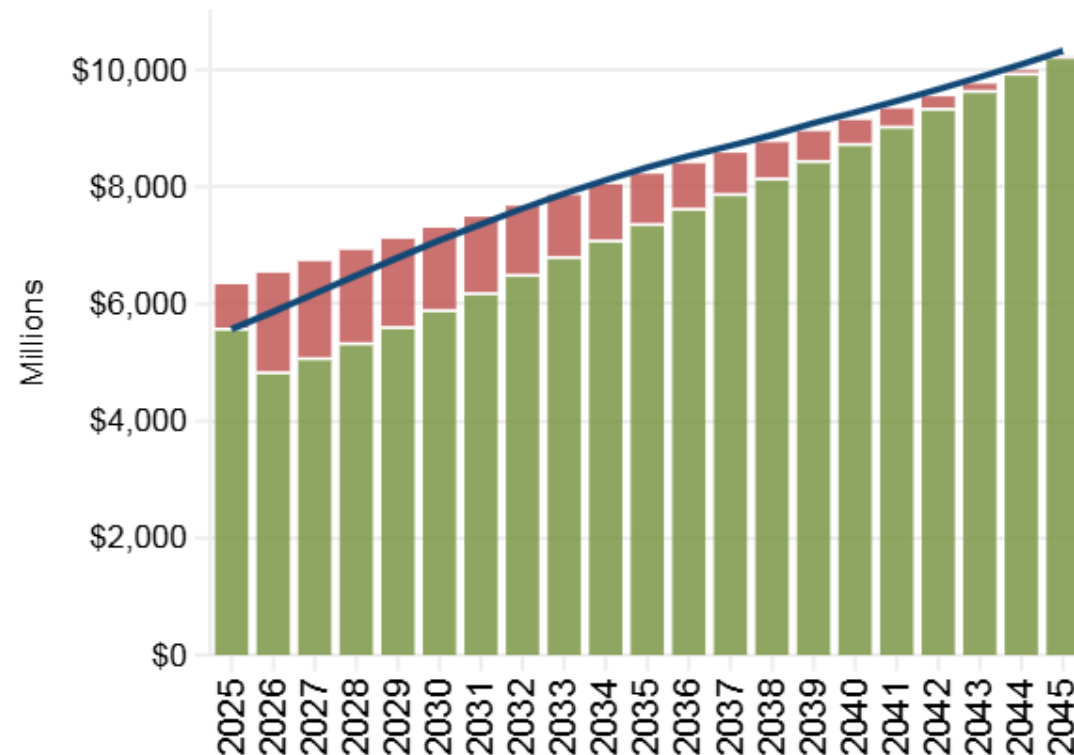


Deterministic Scenarios

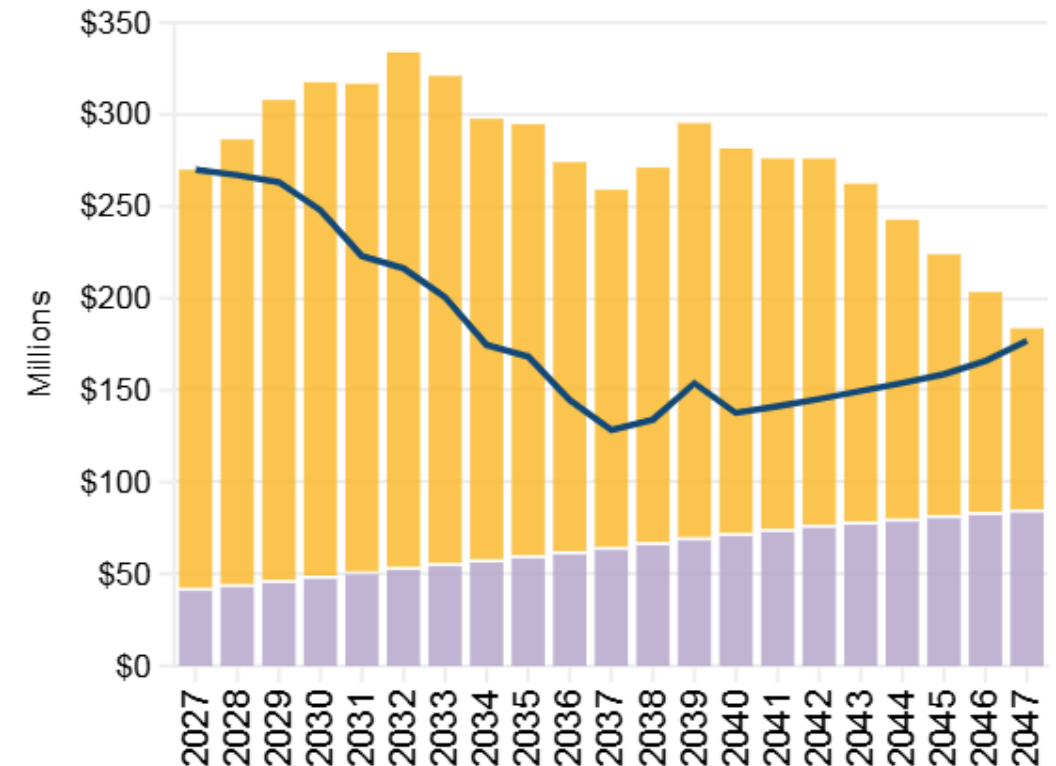
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■ Baseline ■ Assets ■ UAL ■ Member ■ City

Assets and Liabilities



Contribution



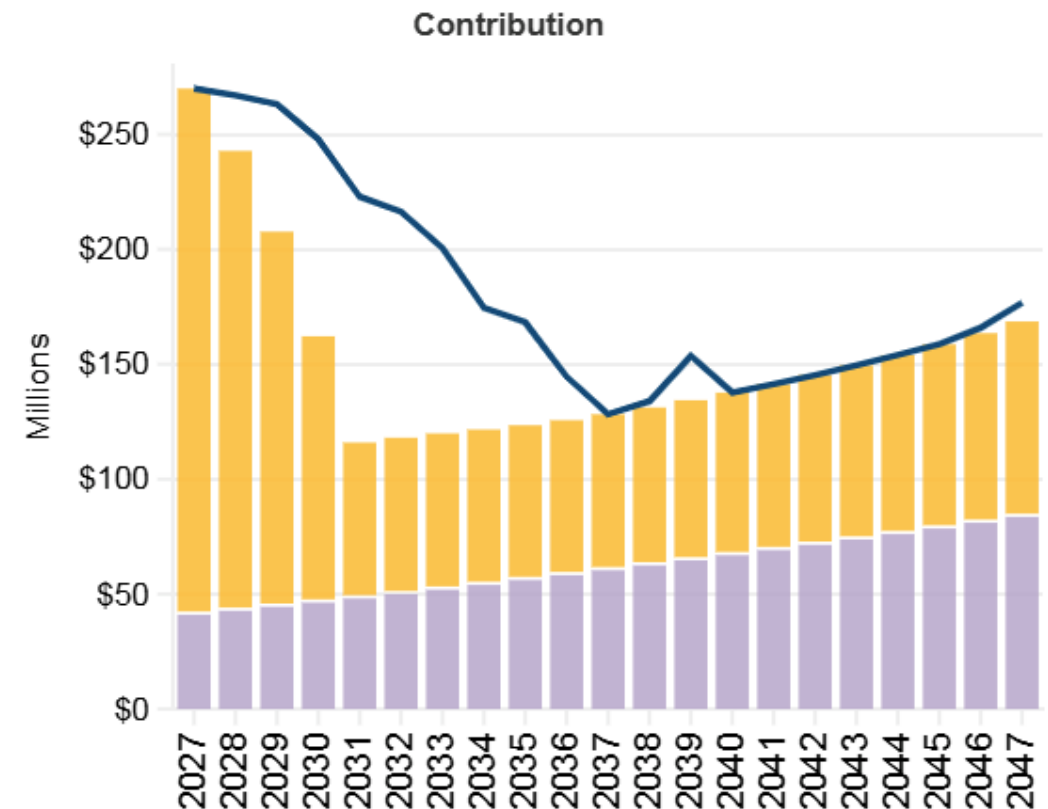
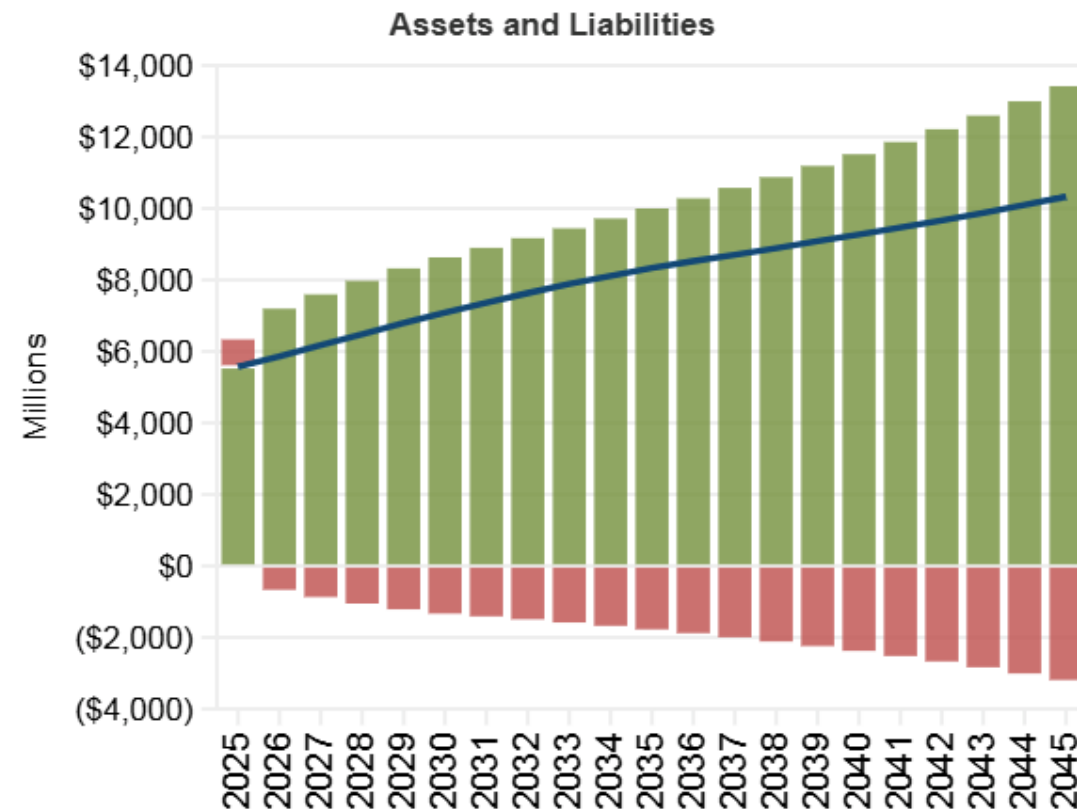
Stress Testing Scenarios



Deterministic Scenarios

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■ Baseline ■ Assets ■ UAL ■ Member ■ City



Stress Testing Scenarios

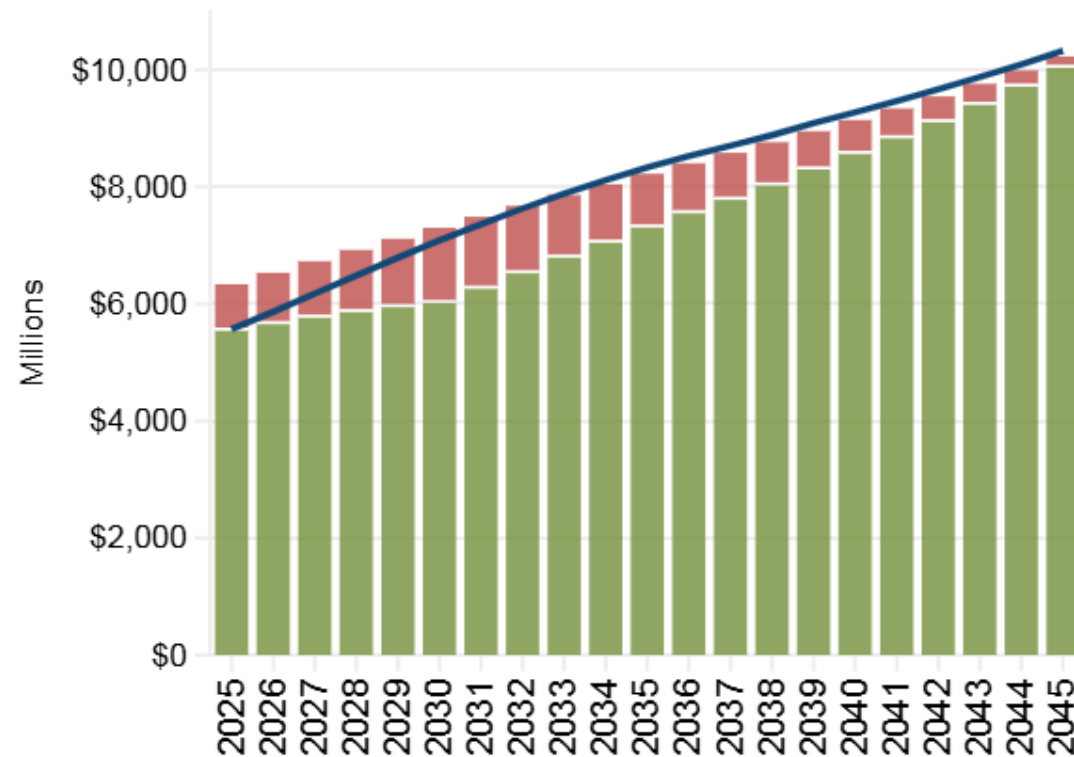


Deterministic Scenarios

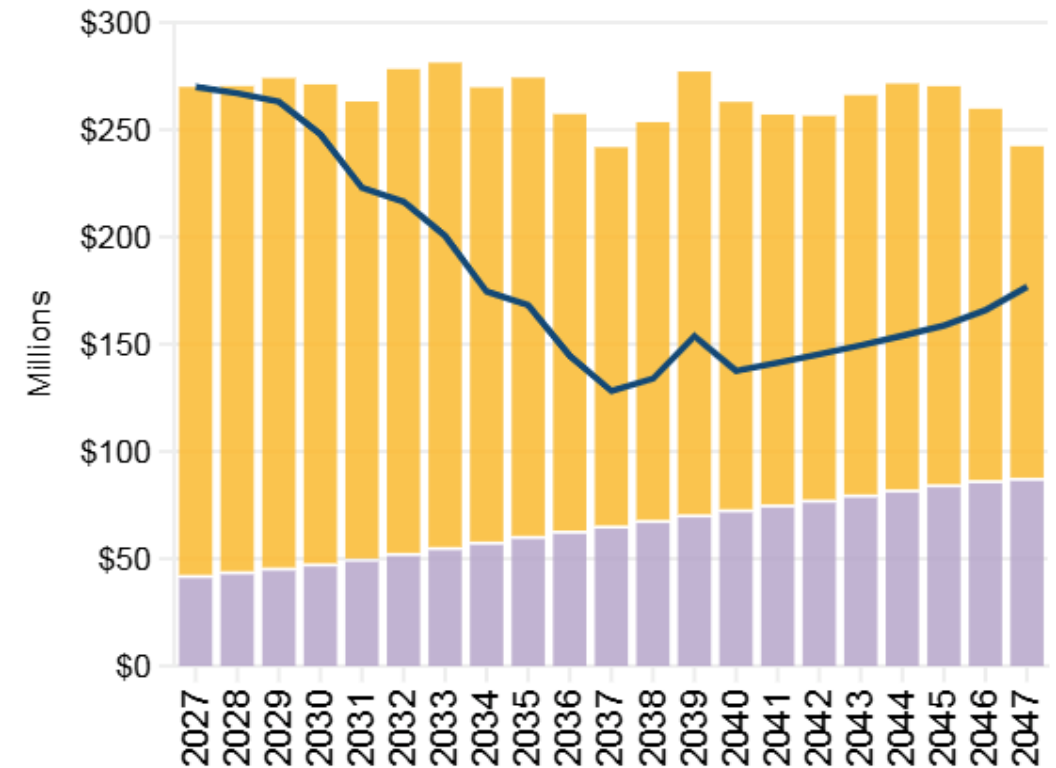
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Assets and Liabilities



Contribution



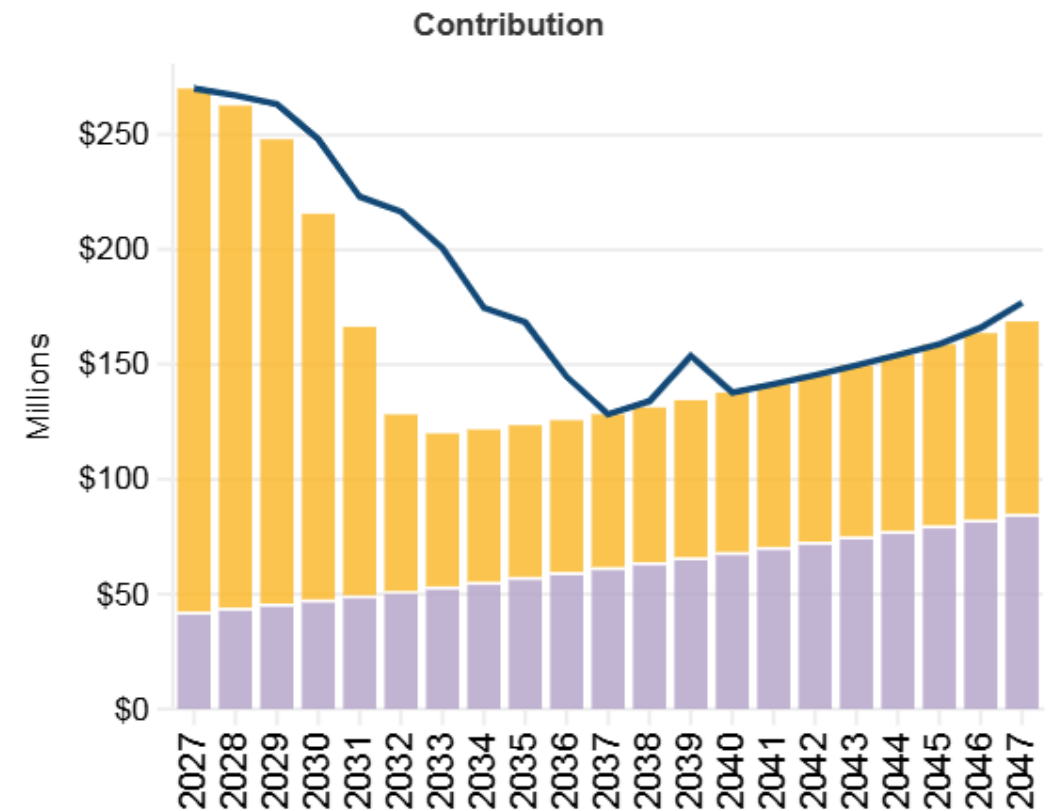
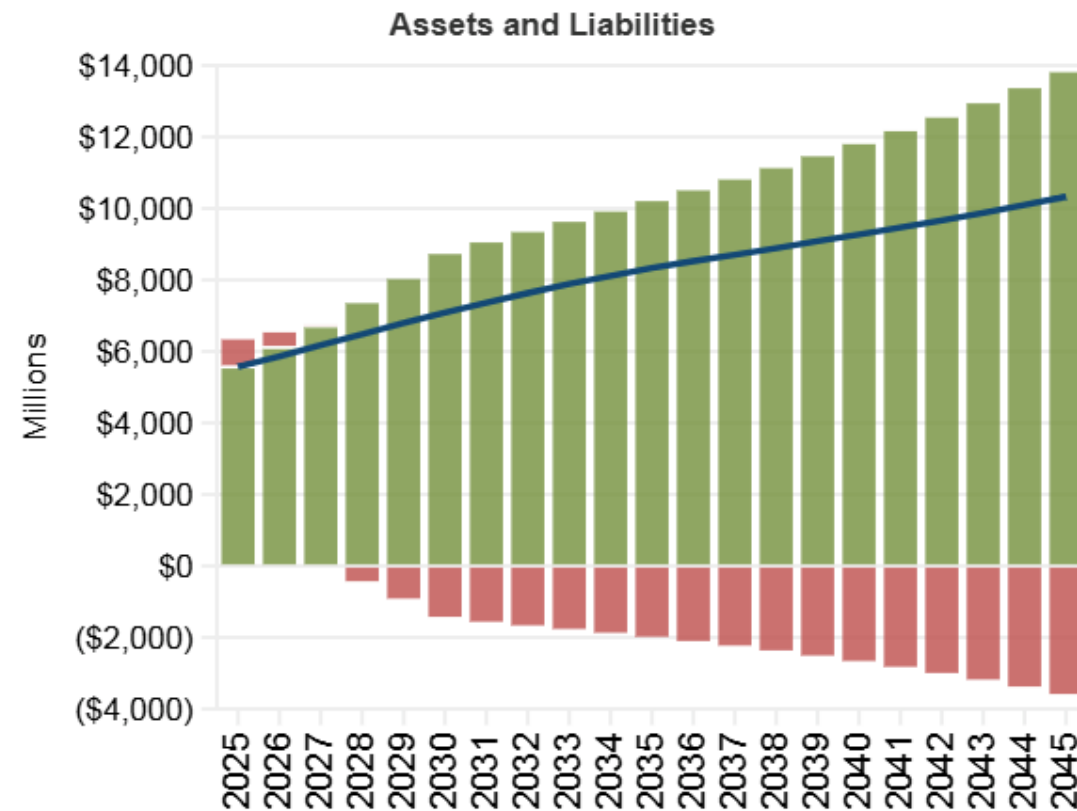
Stress Testing Scenarios



Deterministic Scenarios

Scenario	Baseline	1-Yr Shock Neg	1-Yr Shock Pos	5-Yr Moderate Neg	5-Yr Moderate Pos
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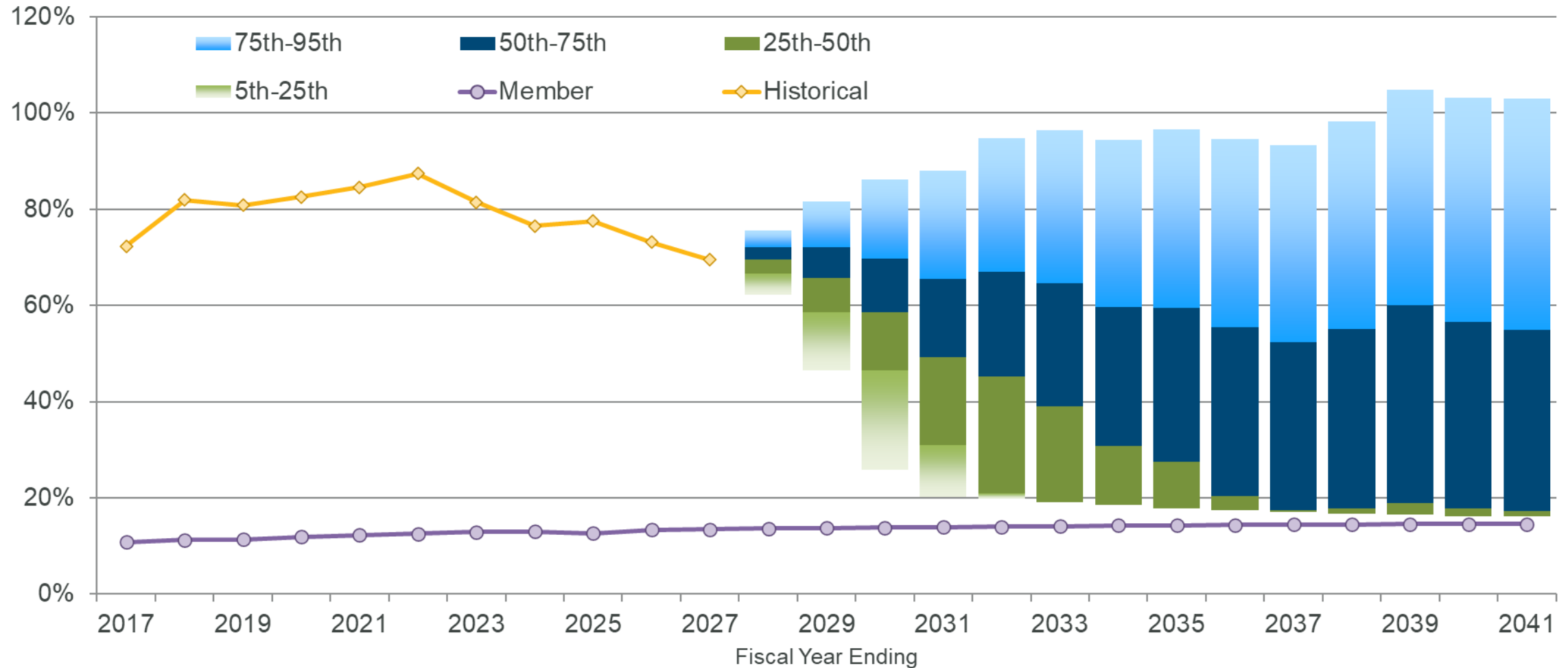
■ Baseline ■ Assets ■ UAL ■ Member ■ City



Stochastic Contributions – Contribution Rates



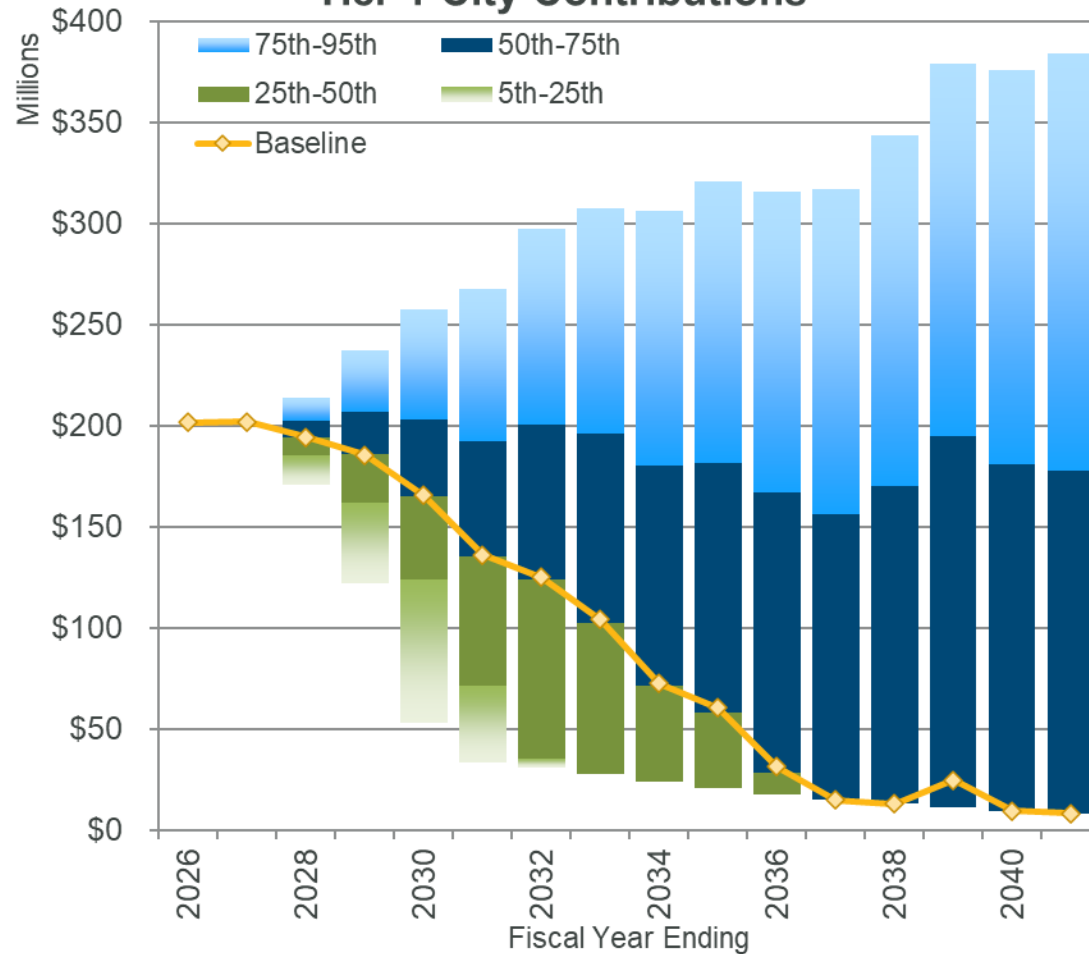
Historical and Projected Employer Contribution Rates



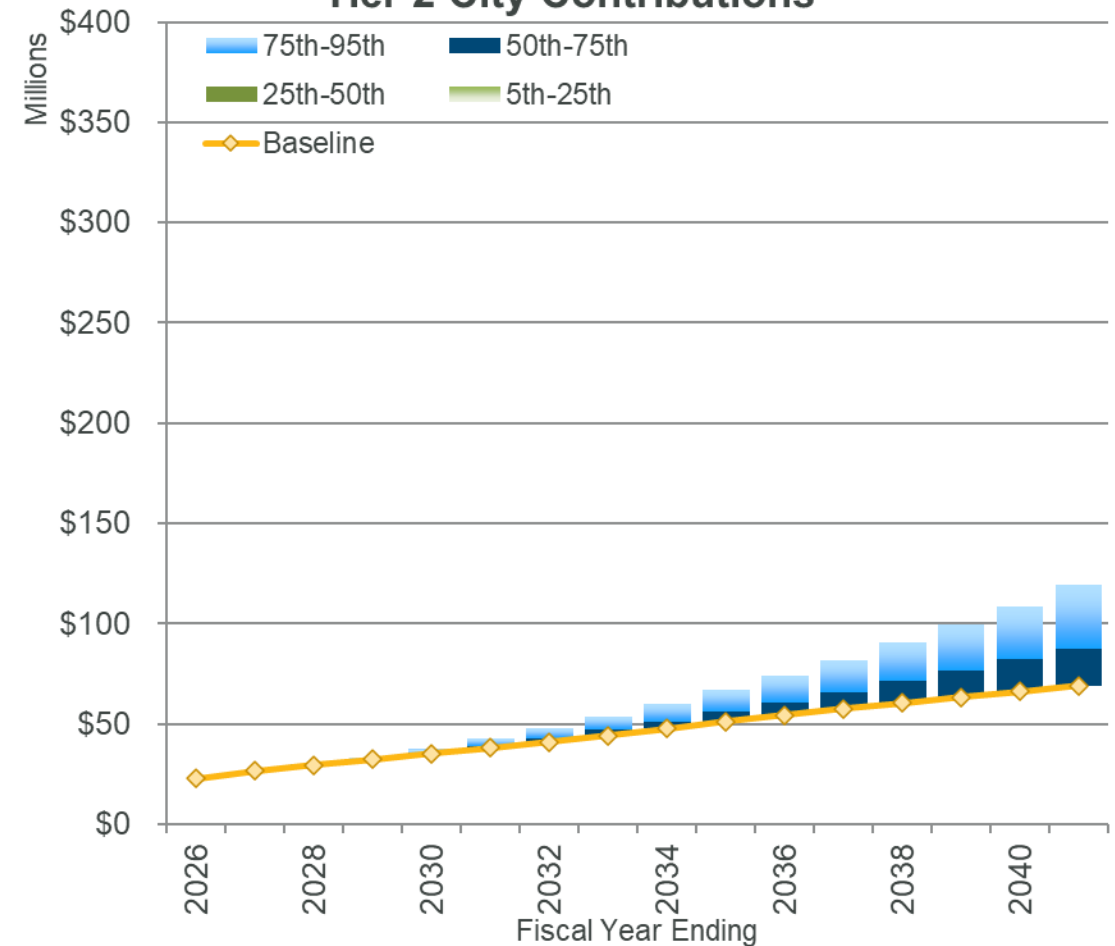
Stochastic Projections – Contributions by Tier



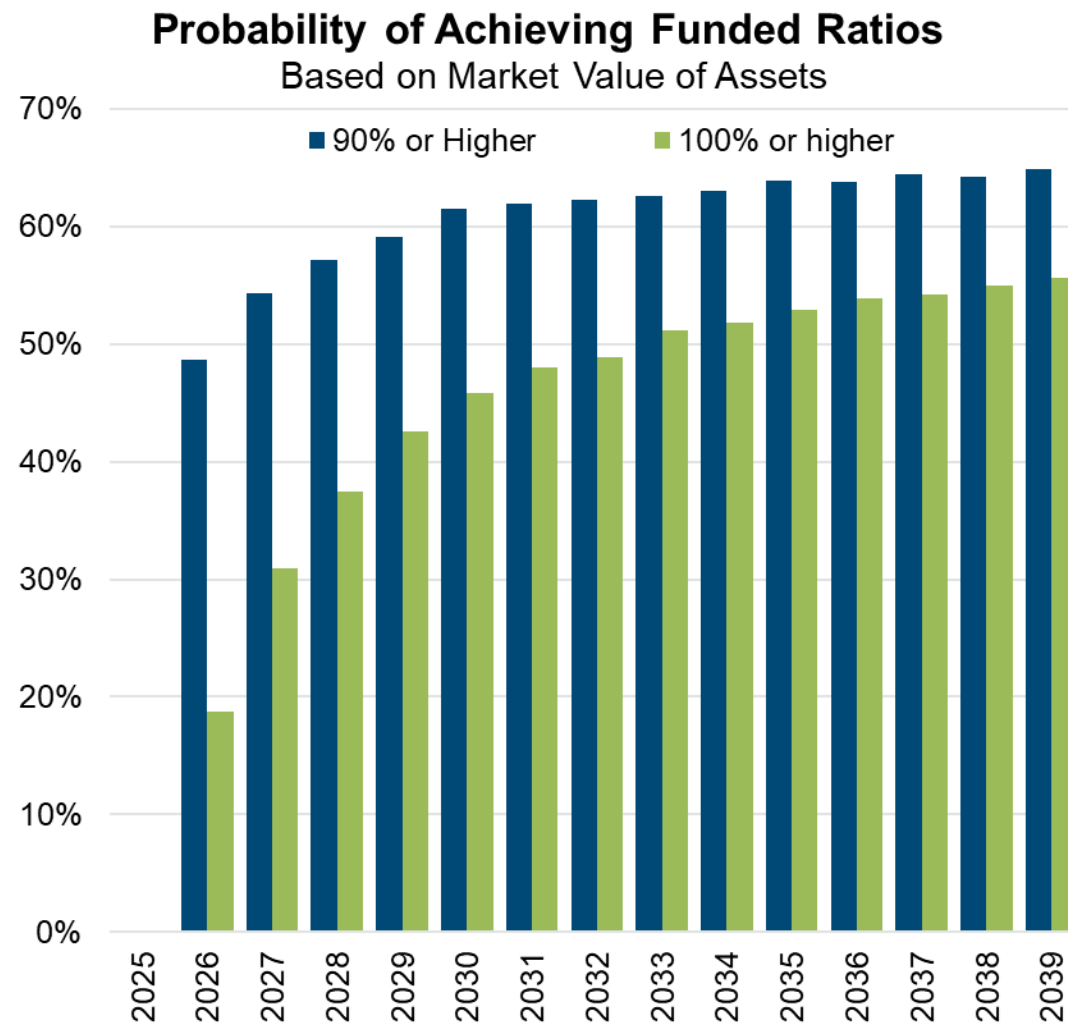
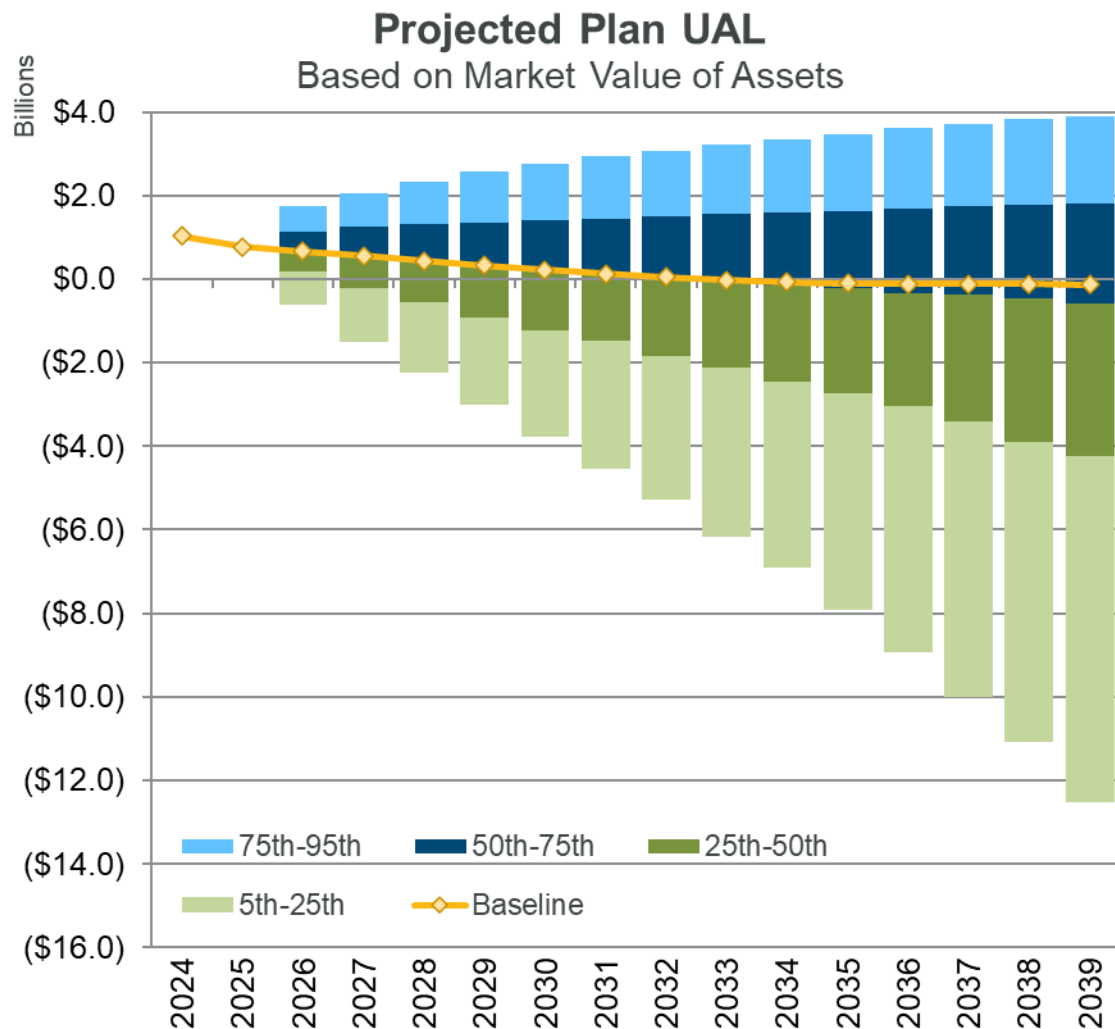
Historical and Stochastically Projected Tier 1 City Contributions



Historical and Stochastically Projected Tier 2 City Contributions



Stochastic Projections – UAL and Funded Ratio



Questions





- The purpose of this presentation is to present the results of the June 30, 2025 Actuarial Valuation for the City of San José Police and Fire Department Retirement Plan.
- In preparing our presentation, we relied on information (some oral and some written) supplied by the City of San José Department of Retirement Services. This information includes, but is not limited to, the plan provisions, employee data, and financial information. We performed an informal examination of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial Standard of Practice No. 23. A summary of the data, assumptions, methods, and plan provisions used to prepare the valuation can be found in the June 30, 2025 actuarial valuation report.
- Future actuarial measurements may differ significantly from the current measurements due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions, changes in economic or demographic assumptions, and changes in plan provisions or applicable law.
- This presentation and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices and our understanding of the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board as well as applicable laws and regulations. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinion contained in this presentation. This presentation does not address any contractual or legal issues. We are not attorneys, and our firm does not provide any legal services or advice.
- This presentation was prepared exclusively for the City of San José Police and Fire Department Retirement Plan for the purpose described herein. This presentation is not intended to benefit any third party, and Cheiron assumes no duty or liability to any such party.

William R. Hallmark, ASA, EA, MAAA, FCA
Consulting Actuary

Anne D. Harper, FSA, EA, MAAA
Principal Consulting Actuary



- Cheiron utilizes ProVal actuarial valuation software leased from Winklevoss Technologies (WinTech) to calculate liabilities and project benefit payments. We have relied on WinTech as the developer of ProVal. We have a basic understanding of ProVal and have used ProVal in accordance with its original intended purpose. We have not identified any material inconsistencies in assumptions or output of ProVal that would affect this valuation.
- Deterministic projections in this valuation report were developed using P-scan, a proprietary tool used to illustrate the impact of changes in assumptions, methods, plan provisions, or actual experience (particularly investment experience) on the future financial status of the System.
- P-scan uses standard roll-forward techniques that implicitly assume a stable active population. Because P-scan does not automatically capture how changes in one variable affect all other variables, some scenarios may not be consistent.
- Stochastic projections in this valuation report were developed using R-scan, our proprietary tool for assessing the probability of different outcomes based on a range of potential investment returns. We relied on Cheiron colleagues for the development of the model. The stochastic projections of investment returns assume that each future year's investment return is independent from all other years and is identically distributed according to a lognormal distribution. The standard deviation used in the stochastic projection of investment returns was provided by the System's investment consultant.

Appendix – Contribution Detail



Contribution Rates and Amounts (Throughout the Year)						
	Fire		Police		Total	
	FYE 2026	FYE 2027	FYE 2026	FYE 2027	FYE 2026	FYE 2027
Member Rates						
Tier 1	12.0%	11.9%	10.4%	11.5%	11.2%	11.7%
Tier 2	<u>15.0%</u>	<u>14.6%</u>	<u>13.6%</u>	<u>14.6%</u>	<u>14.0%</u>	<u>14.6%</u>
Aggregate	13.3%	13.1%	12.4%	13.6%	12.7%	13.4%
City Contributions						
Tier 1 Admin/UAL	\$ 13,703	\$ 3,748	\$ 147,652	\$ 156,552	\$ 161,355	\$ 160,300
Tier 1 Normal Cost	\$ 20,779 32.2%	\$ 20,748 31.9%	\$ 19,408 28.7%	\$ 20,686 31.5%	\$ 40,187 30.4%	\$ 41,434 31.7%
Tier 2 Contribution	\$ 7,104 15.0%	\$ 7,798 14.6%	\$ 15,503 13.6%	\$ 18,682 14.6%	\$ 22,607 14.0%	\$ 26,480 14.6%
Aggregate	\$ 41,587 37.2%	\$ 32,294 27.2%	\$ 182,562 100.3%	\$ 195,921 101.3%	\$ 224,149 76.3%	\$ 228,215 73.2%

Numbers may not add due to rounding

Dollar amounts in thousands

Appendix – 5-Year Contribution Projection



Fiscal Year Ending	Contribution Rates and Amounts (Throughout the Year)									
	2027		2028		2029		2030		2031	
Member Rates										
Police Tier 1	11.47%		11.47%		11.46%		11.47%		11.49%	
Police Tier 2	14.64%		14.64%		14.64%		14.64%		14.64%	
Fire Tier 1	11.88%		11.84%		11.82%		11.80%		11.78%	
Fire Tier 2	14.55%		14.55%		14.55%		14.55%		14.55%	
City Contributions										
Police										
Tier 1 UAL	\$ 152,123		\$ 151,490		\$ 145,972		\$ 129,048		\$ 101,981	
Tier 1 Admin	4,429		4,568		4,710		4,857		5,009	
Tier 1 Normal Cost	31.48%	20,687	31.48%	18,887	31.44%	16,996	31.46%	15,208	31.48%	13,709
Tier 2 Contribution	14.64%	18,682	14.64%	20,401	14.64%	22,184	14.64%	23,960	14.64%	25,632
Total Police	101.35%	\$ 195,921	97.99%	\$ 195,346	92.35%	\$ 189,862	81.64%	\$ 173,073	66.93%	\$ 146,331
Fire										
Tier 1 UAL	\$ 49		\$ (3,814)		\$ (3,933)		\$ (4,056)		\$ (4,183)	
Tier 1 Admin	3,699		3,814		3,933		4,056		4,183	
Tier 1 Normal Cost	31.93%	20,748	31.83%	19,223	31.77%	17,797	31.72%	16,462	31.66%	15,313
Tier 2 Contribution	14.55%	7,798	14.55%	9,004	14.55%	10,197	14.55%	11,370	14.55%	12,475
Total Fire	27.24%	\$ 32,294	22.25%	\$ 28,227	22.20%	\$ 27,994	21.40%	\$ 27,832	20.72%	\$ 27,788
Aggregate City	73.17%	\$ 228,215	69.51%	\$ 223,573	65.68%	\$ 217,856	58.74%	\$ 200,905	49.36%	\$ 174,119
75th Percentile	73.17%	228,215	72.15%	232,041	72.07%	239,054	69.78%	238,686	65.60%	231,399
25th Percentile	73.17%	228,215	66.68%	214,479	58.55%	194,187	46.43%	158,827	31.01%	109,388

Dollar amounts in thousands

Appendix – Tier 1 Beginning of Year Contributions



Tier 1 City Contribution Amounts (Beginning of Year Assuming Full Discount)

Fiscal Year Ending	2027	2028	2029	2030	2031
Police					
Tier 1 UAL Payment	\$ 147,321	\$ 146,708	\$ 141,364	\$ 124,975	\$ 98,762
Tier 1 Administrative Expenses	4,289	4,424	4,561	4,704	4,851
Tier 1 Normal Cost	<u>20,034</u>	<u>18,291</u>	<u>16,460</u>	<u>14,728</u>	<u>13,276</u>
Total Police	\$ 171,644	\$ 169,423	\$ 162,385	\$ 144,407	\$ 116,889
Fire					
Tier 1 UAL Payment	\$ 47	\$ (3,694)	\$ (3,809)	\$ (3,928)	\$ (4,051)
Tier 1 Administrative Expenses	3,582	3,694	3,809	3,928	4,051
Tier 1 Normal Cost	<u>20,093</u>	<u>18,616</u>	<u>17,235</u>	<u>15,942</u>	<u>14,830</u>
Total Fire	\$ 23,722	\$ 18,616	\$ 17,235	\$ 15,942	\$ 14,830
Tier 1 Total	\$ 195,366	\$ 188,039	\$ 179,620	\$ 160,349	\$ 131,719

Dollar amounts in thousands