

**Retirement Plan for  
Sacramento Regional  
Transit District Employees  
ATU Local 256**

**Actuarial Valuation Report  
as of July 1, 2024**

**Produced by Cheiron**

**March 2025**

## TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
Letter of Transmittal .....	i
Foreword .....	ii
Section I      Executive Summary .....	1
Section II     Disclosures Related to Risk .....	10
Section III    Assets .....	21
Section IV    Liabilities .....	26
Section V     Contributions.....	29
 <u>Appendices</u>	
Appendix A    Membership Information .....	34
Appendix B    Statement of Actuarial Assumptions and Methods.....	39
Appendix C    Summary of Plan Provisions.....	46
Appendix D    Glossary .....	51

March 12, 2025

ATU Retirement Board of  
Sacramento Regional Transit District  
2830 G Street  
Sacramento, CA 95816

Dear Members of the Board:

At your request, we have conducted an actuarial valuation of the Retirement Plan for Sacramento Regional Transit District Employees (ATU Plan) (SacRT, the Fund, the Plan) as of July 1, 2024. This report contains information on the Plan's assets and liabilities. This report also discloses employer contribution levels. Your attention is called to the Foreword in which we refer to the general approach employed in the preparation of this report.

The purpose of this report is to present the results of the annual actuarial valuation of the Plan. This report is for the use of the Retirement Board and the auditors in preparing financial reports in accordance with applicable law and accounting requirements.

This report was prepared solely for the Retirement Board for the purposes described herein, and for the use by the plan auditor in completing an audit related to the matters herein. Other users of this report are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to any other user.

This report 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 report. This report does not address any contractual or legal issues. We are not attorneys and our firm does not provide any legal services or advice.

Sincerely,  
Cheiron

A handwritten signature in blue ink, reading "Graham Schmidt".

Graham A. Schmidt, FSA, EA, FCA, MAAA  
Principal Consulting Actuary

A handwritten signature in blue ink, reading "Anne Harper".

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

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**FOREWORD**

Cheiron has performed the actuarial valuation of the Retirement Plan for Sacramento Regional Transit District Employees (ATU Plan) as of July 1, 2024. The valuation is organized as follows:

- In Section I, the **Executive Summary**, we describe the purpose of an actuarial valuation, summarize the key results found in this valuation, and disclose important trends.
- In Section II, **Disclosures Related to Risk**, we review the primary risks facing the District, and quantify these using various risk and maturity measures.
- The **Main Body** of the report presents details on the Plan's
  - Section III – Assets
  - Section IV – Liabilities
  - Section V – Contributions
- In the **Appendices**, we conclude our report with detailed information describing plan membership (Appendix A), actuarial assumptions and methods employed in the valuation (Appendix B), a summary of pertinent plan provisions (Appendix C), and a glossary of key actuarial terms (Appendix D).

Future results may differ significantly from the results of the current valuation presented in this report due to such factors as the following: plan experience differing from that anticipated by the assumptions; changes in assumptions; and, changes in plan provisions or applicable law.

In preparing our report, we relied on information (some oral and some written) supplied by the District's staff. This information includes, but is not limited to, 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.

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION I – EXECUTIVE SUMMARY**

The primary purpose of the actuarial valuation and this report is to measure, describe, and identify the following as of the valuation date:

- The financial condition of the Plan,
- Past and expected trends in the financial progress of the Plan,
- Employer and member contribution rates for Plan Year 2024-2025, and
- An assessment and disclosure of key risks.

Prior to July 1, 2016, a combined valuation report was issued for the Retirement Plans for Sacramento Regional Transit District Employees ATU Local 256 and IBEW Local 1245. As per the Board's direction, beginning with the July 1, 2016 valuation, separate reports are issued for the ATU and IBEW plans.

The information required under GASB Statements (Nos. 67 and 68) is included in a separate report, with the report for the Fiscal Year Ending June 30, 2024 provided to the Board in August 2024.

In the balance of this Executive Summary, we present (A) the basis upon which this year's valuation was completed, (B) the key findings of this valuation including a summary of all key financial results, (C) changes in Plan cost, (D) an examination of the historical trends, and (E) the projected financial outlook for the Plan.

**A. Valuation Basis**

This valuation determines the employer and PEPRA member contributions for the plan year.

The Plan's funding policy is for the District to contribute an amount equal to the sum of:

- The normal cost under the Entry Age Normal Cost Method, net of any contributions by the members,
- Amortization of the Unfunded Actuarial Liability, and
- The Plan's expected administrative expenses.

This valuation was prepared based on the plan provisions shown in Appendix C. There have been no changes in plan provisions since the prior valuation.

A summary of the assumptions and methods used in the current valuation are shown in Appendix B. There have been no changes in assumptions or methods since the prior valuation.

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION I – EXECUTIVE SUMMARY**

**B. Key Findings of this Valuation**

The key results of the July 1, 2024 actuarial valuation are as follows:

- The actuarially determined employer contribution rate decreased from 25.86% of payroll last year to 24.55% of payroll for the current valuation. This year's rate decreased primarily due to greater than expected payroll growth.
- The Plan's funded ratio, the ratio of Actuarial Value of Assets over Actuarial Liability, increased from 76.1% as of July 1, 2023 to 78.3% as of July 1, 2024. As a point of comparison, a funding ratio of 60.1% or more is required just to fund the liabilities of the inactive members: retired, disabled, terminated with vested benefits, and their beneficiaries. This ratio is sometimes referred to as the Inactive Funded Ratio.
- The Unfunded Actuarial Liability (UAL) is the excess of the Plan's Actuarial Liability over the Actuarial Value of Assets. The Plan experienced a decrease in the UAL from \$53,496,723 to \$50,170,074 as of July 1, 2024. This decrease in the UAL was primarily due to contributions being made to the Plan that exceed the Normal Cost plus the interest on the UAL.
- During the year ended June 30, 2024, the return on Plan assets was 10.54% on a market value basis net of investment expenses, as compared to the 6.75% assumption. This resulted in a market value gain on investments of \$6,273,073. The Actuarial Value of Assets recognizes 20% of the annual difference between the expected and actual return on the Market Value of Assets (MVA). This method of smoothing the asset gains and losses returned 7.03% on the smoothed value of assets, an actuarial asset gain of \$481,902.
- The Actuarial Value of Assets is currently 99.1% of the market value. Since actuarial assets are below market assets, there are unrecognized investment gains (approximately \$1.6 million) that will be reflected in the smoothed value of assets in future years.
- The Plan experienced a slight liability loss of \$28,141. The Plan experienced an \$11,396 gain from administrative expenses being less than expected, and a gain of \$83,883 from contributions being more than the actuarial cost. Combining all sources of actuarial experience, the Plan experienced a total gain of \$549,041.
- There were 88 new hires and rehires since July 1, 2023 and the total active population increased by 21. Total projected payroll increased 7.82% from \$43,921,861 to \$47,357,311 for 2024-2025.
- The impact of PEPRA continued to lower the employer cost. As more PEPRA members are hired, the average normal cost rate declines, because PEPRA members have lower benefits than the non-PEPRA members and they contribute approximately 50% of the PEPRA Normal Cost. As of June 30, 2024, PEPRA members make up over 60% of the active workforce.

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION I – EXECUTIVE SUMMARY**

Table I-1 summarizes the key results of the valuation with respect to membership, assets and liabilities, and contributions. The results are presented and compared for both the current and prior plan year.

Table I 1					
Summary of Principal Plan Results					
Valuation Date	July 1, 2023		July 1, 2024	% Change	
<b><u>Participant Counts</u></b>					
Active Participants	557		578	3.77%	
Participants Receiving a Benefit	527		537	1.90%	
Terminated Vested Participants	37		34	-8.11%	
Transferred Participants	19		17	-10.53%	
Non-Vested Participants Due Refund	51		73	43.14%	
<b>Total</b>	<b>1,191</b>		<b>1,239</b>	<b>4.03%</b>	
Annual Pay of Active Members	\$	43,921,861	\$	47,357,311	7.82%
<b><u>Assets and Liabilities</u></b>					
Actuarial Liability (AL)	\$	223,482,409	\$	230,994,116	3.36%
Actuarial Value of Assets (AVA)		169,985,686		180,824,042	6.38%
Unfunded Actuarial Liability (UAL)	\$	53,496,723	\$	50,170,074	-6.22%
Funded Ratio (AVA)		76.1%		78.3%	2.22%
Market Value of Assets (MVA)	\$	166,073,676	\$	182,439,142	9.85%
Funded Ratio (MVA)		74.3%		79.0%	4.67%
Inactive Funded Ratio		60.1%		60.1%	0.00%
<b><u>Contributions</u></b>					
Employer Contribution Payable Monthly	\$	\$10,995,953	\$	11,268,838	2.48%
Employer Contribution as a Percentage of Payroll		25.86%		24.55%	-1.31%

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION I – EXECUTIVE SUMMARY**

**C. Changes in Contributions**

Table I-2 summarizes the impact of actuarial experience on contributions.

<b>Table I 2 Employer Contribution Reconciliation</b>				
<b>Item</b>	<b>Total</b>	<b>Normal Cost</b>	<b>UAL Amortization</b>	<b>Admin Expense</b>
FYE 2025 Employer Contribution Rate	25.86%	11.08%	14.08%	0.70%
Change due to asset gains	-0.07%	0.00%	-0.07%	0.00%
Change due to PEPRA	-0.46%	-0.46%	0.00%	0.00%
Change due to demographic and liability changes	-0.07%	-0.06%	-0.01%	0.00%
Change due to amortization payroll	-0.70%	0.00%	-0.66%	-0.04%
Change due to contribution/expense surplus	<u>-0.01%</u>	<u>0.00%</u>	<u>-0.01%</u>	<u>0.00%</u>
Total Change	-1.31%	-0.52%	-0.75%	-0.04%
FYE 2026 Employer Contribution Rate	24.55%	10.56%	13.33%	0.66%

An analysis of the cost changes from the prior valuation reveals the following:

- Asset experience produced an investment gain on an actuarial basis.

The actuarial return on assets was 7.03%, which is more than the assumed rate of 6.75%. This resulted in a decrease in the contribution rate by 0.07% of payroll

The Market Value of Assets is more than the actuarial value; there are approximately \$1.6 million in net deferred asset gains.

- Liability experience and changes in demographics (including PEPRA new hires) resulted in a net decrease in the contribution rate.

The employer portion of the normal cost for the new hires under the PEPRA benefit formula is lower than the normal cost for the non-PEPRA membership. The growth in the PEPRA membership resulted in a decrease in the average employer normal cost rate of 0.46% of payroll.

The liability experience of the Plan – including rates of retirement, death, disability, and termination – was very close to what was predicted by the actuarial assumptions in aggregate. The liability experience and other changes in the population resulted in a small reduction in the contribution rate by 0.07% of payroll.

The net impact on the contribution rate from changes in liabilities and demographics was a decrease of 0.53% of payroll.



**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION I – EXECUTIVE SUMMARY**

- Overall payroll growth was greater than expected.

The projected payroll grew by 7.82%, considerably more than the assumed rate of 2.75%, which decreased the contribution rate by 0.70% of pay, since it results in the Plan's Unfunded Actuarial Liability and administrative expenses being spread over a larger payroll base.

- Contributions were slightly more than the actuarially determined contribution.

Actual contributions were slightly more than the total actuarially determined contribution (including expenses), which resulted in a decrease in the contribution rate by 0.01%.

The total impact on employer Plan contribution from all changes is a decrease of 1.31% of pay.

RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024

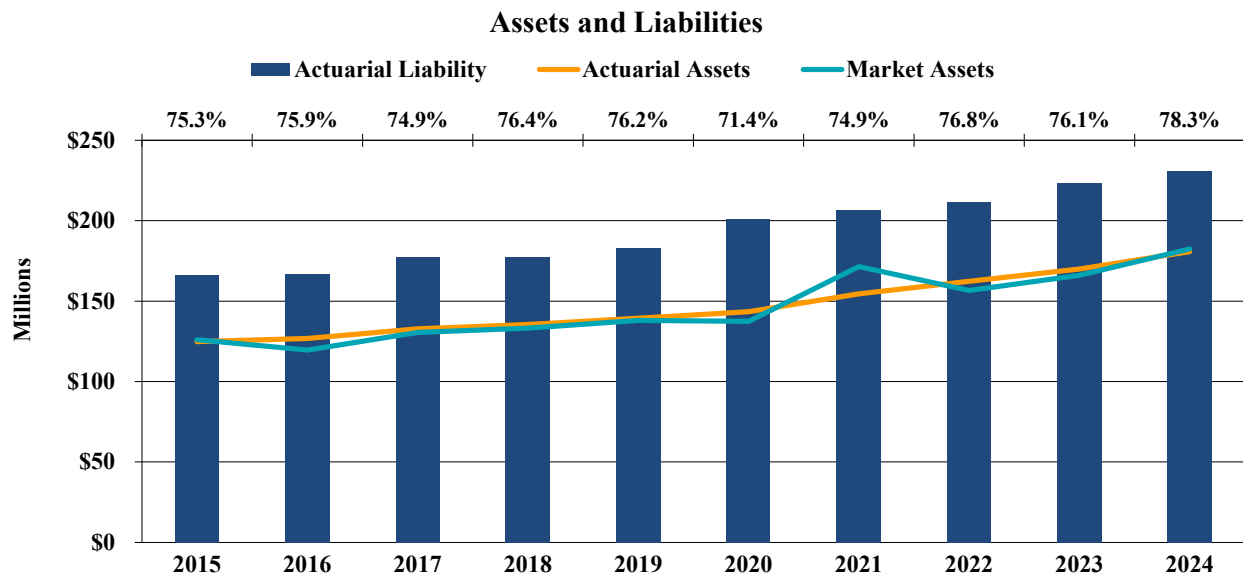
SECTION I – EXECUTIVE SUMMARY

D. Historical Trends

Despite the fact that for most retirement plans the greatest attention is given to the current valuation results and in particular, the size of the current Unfunded Actuarial Liability and the employer contribution, it is important to remember that each valuation is merely a snapshot in the long-term progress of a pension fund. It is also important to judge a current year's valuation result relative to historical trends, as well as trends expected into the future.

Assets and Liabilities

The chart compares the Market Value of Assets (MVA) and Actuarial Value of Assets (AVA) to the Actuarial Liabilities. The percentage shown at the top of the chart below is the ratio of the Actuarial Value of Assets to the Actuarial Liability (the funded ratio). The funded ratio increased from 75.3% in 2015 to 78.3% in 2024, due to contributions made to the Plan, despite decreases in the assumed rate of return from 7.50% to 6.75% over the same time period. The increase in the 2024 funded ratio is also a result of contributions, plus positive actuarial asset experience.



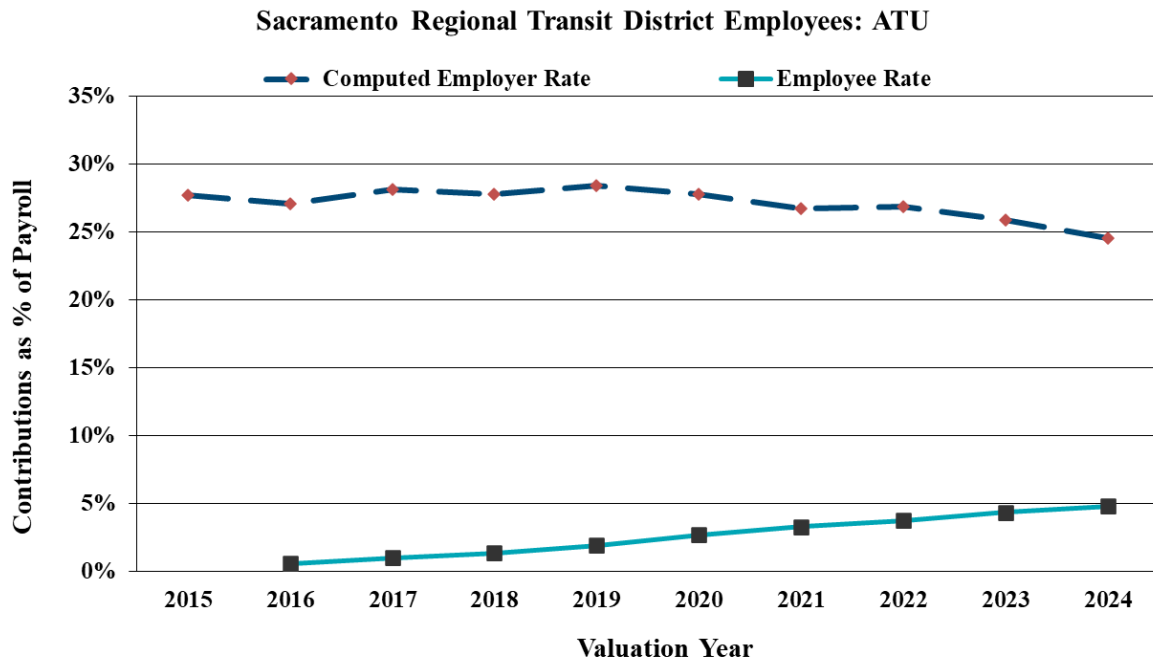
**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION I – EXECUTIVE SUMMARY**

**Contribution Trends**

In the chart below, we present the Plan’s historical actuarially determined contribution rates and employee contribution rates. The employer contribution rate has declined moderately, as investment gains, payroll growth, and the transition to the PEPR population have outweighed changes to the assumptions that increased cost. The employer rates shown include the three-year phase-in of the impact of the 2020 assumption changes on the UAL payment.

PEPRA employees began making contributions during FYE 2016. They have become a larger portion of the population, resulting in an increase in the weighted employee contributions for the Plan.



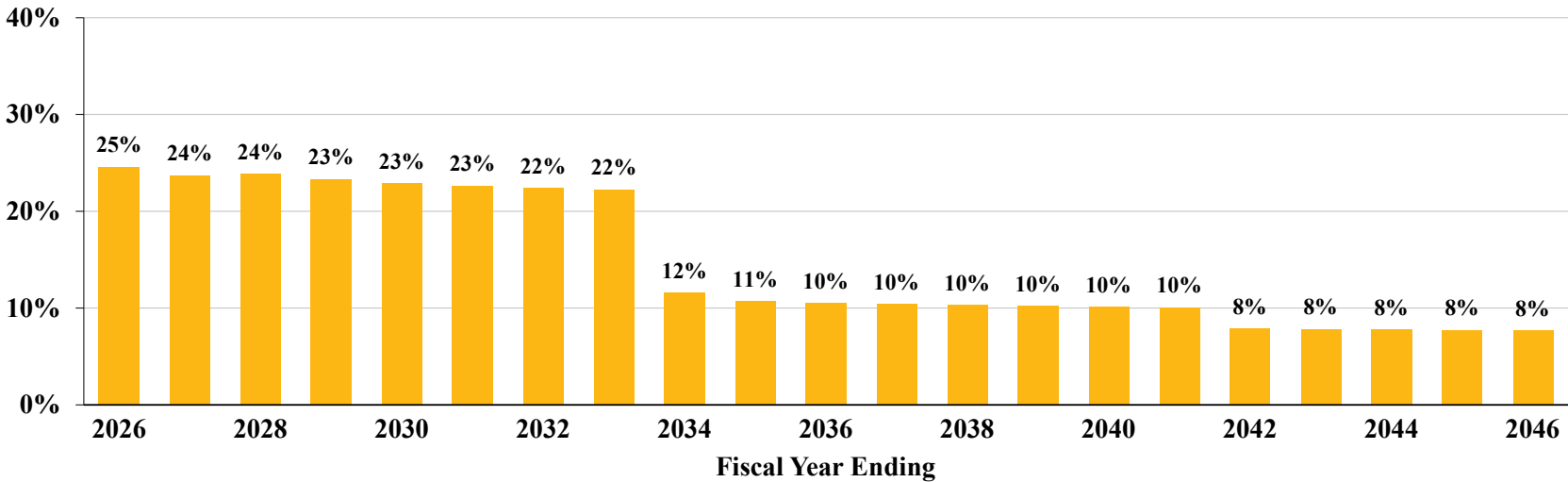
RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024

SECTION I – EXECUTIVE SUMMARY

E. Future Expected Financial Trends

The analysis of projected financial trends is perhaps the most important component of this valuation. In this section, we present our assessment of the implications of the July 1, 2024 valuation results in terms of contribution levels and benefit security (assets over liabilities). All the projections in this section are based on the assumption that the Plan will achieve exactly the 6.75% assumption each year, which is clearly an impossibility. We have also assumed future payroll growth of 2.75% per year and that there are no other actuarial gains or losses or changes to the assumptions or funding policy.

Projection of Employer Contributions 6.75% return each year



The graph shows that the District’s contribution rate is expected to remain relatively level over the next several years, declining gradually as the PEPPRA membership increases. The employer contribution rate is expected to decline substantially in FYE 2034, once the largest layer of the unfunded liability (the UAL that existed as of June 30, 2019) is fully amortized.

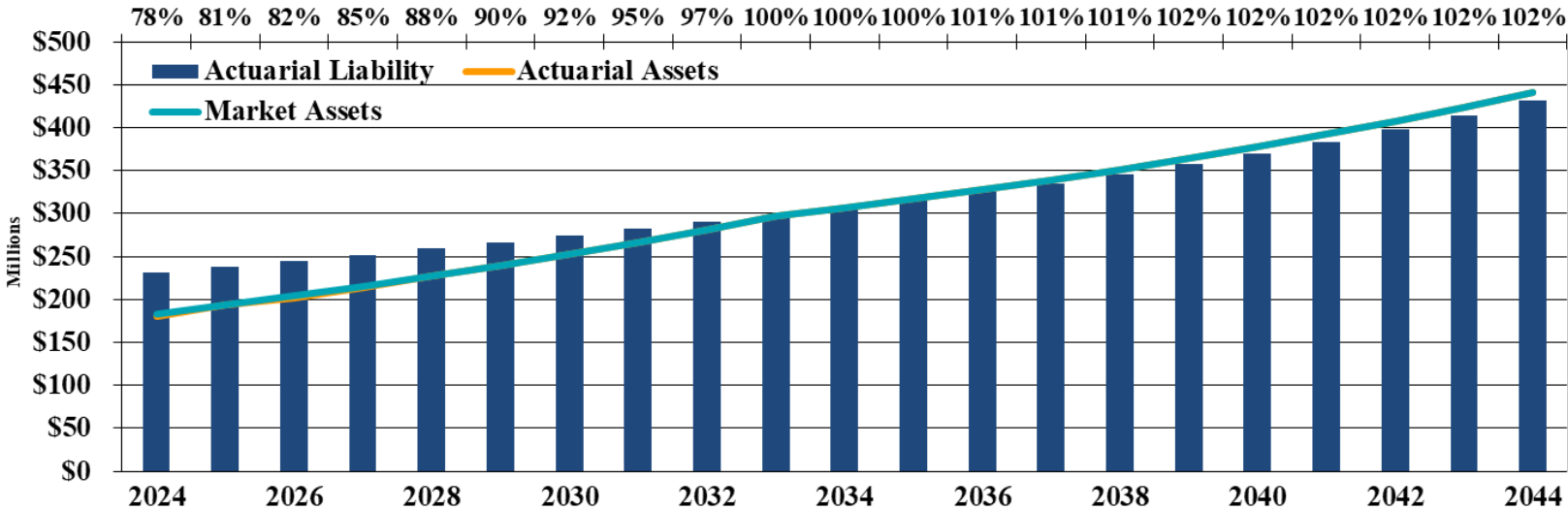
RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024

SECTION I – EXECUTIVE SUMMARY

The employer actuarial cost will be approximately \$11.9 million in 2025-2026 and is expected to increase to \$13.1 million in 2032-2033 with payroll growth, then is expected to drop significantly between \$5.9 to \$7.3 million in the following years, when the bulk of the unfunded liability amortization payment disappears.

The following graph shows the projection of assets and liabilities assuming that assets will earn 6.75% each year during the projection period and that all other actuarial assumptions are met. The funded status is expected to increase steadily as the existing unfunded liability is fully amortized. The Plan is expected to be fully funded in 2033, five years earlier than in the July 1, 2023 valuation. However, it is primarily the actual return on Plan assets that will determine the future funding status and contribution rate to the Plan.

**Projection of Assets and Liabilities 6.75% return each year**



## SECTION II – DISCLOSURES RELATED TO RISK

Actuarial valuations are based on a set of assumptions about future economic and demographic experience. These assumptions represent a reasonable estimate of future experience, but actual future experience will undoubtedly be different and may vary significantly.

Actuarial Standard of Practice (ASOP 51) requires actuaries to identify and assess risks that “may reasonably be anticipated to significantly affect the plan’s future financial condition.” This section of the report is intended to identify the primary risks to the Plan, provide some background information about those risks, and provide an assessment of those risks.

### Identification of Risks

The fundamental risk to a pension plan is that the contributions needed to pay the benefits become unaffordable. Even in the case that the Plan remains affordable, the contributions needed to support the Plan may differ significantly from expectations. While there are a number of factors that could lead to contribution amounts deviating from expectations, we believe the primary risks are:

- Investment risk,
- Assumption change risk,
- Longevity and other demographic risk, and
- Contribution risk.

Other risks that we have not identified may also turn out to be important.

*Investment Risk* is the potential for investment returns to be different than expected. Lower investment returns than anticipated will increase the Unfunded Actuarial Liability necessitating higher contributions in the future unless there are other gains that offset these investment losses. The potential volatility of future investment returns is determined by the Plan’s asset allocation and the affordability of the investment risk is determined by the amount of assets invested relative to the size of the plan sponsor or other contribution base.

*Assumption change risk* is the potential for the environment to change such that future valuation assumptions are different than the current assumptions. For example, declines in interest rates over the last three decades (which have recently reversed) resulted in higher investment returns for fixed-income investments, but lower expected future returns necessitating either a change in investment policy, a reduction in discount rate, or some combination of the two. Assumption change risk is an extension of the other risks identified, but rather than capturing the risk as it is experienced, it captures the cost of recognizing a change in environment when the current assumption is no longer reasonable.

*Longevity and other demographic risks* are the potential for mortality or other demographic experience to be different than expected. Generally, longevity and other demographic risks emerge slowly over time and are often dwarfed by other changes, particularly those due to investment returns.

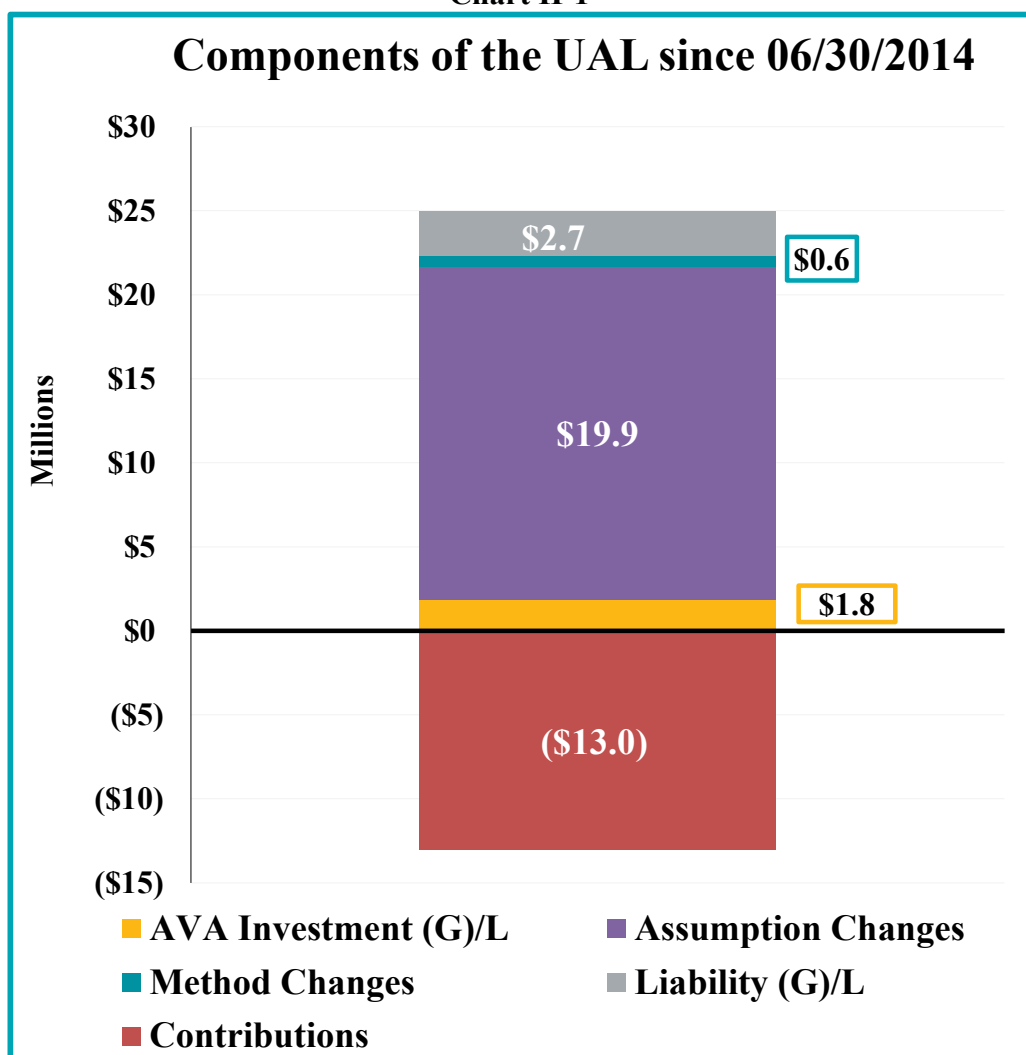
RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024

SECTION II – DISCLOSURES RELATED TO RISK

*Contribution risk* is the potential for actual future contributions to deviate from expected future contributions. There are different sources of contribution risk ranging from the sponsor choosing to not make contributions in accordance with the funding policy to material changes in the contribution base (e.g., covered employees, covered payroll, sponsor revenue) that affect the amount of contributions the Plan can collect.

The chart below shows the primary components contributing to the Unfunded Actuarial Liability (UAL) from June 30, 2014 through June 30, 2024. Over the last 10 years, the UAL has increased by approximately \$12 million. The assumption changes (purple bar) resulting in a total UAL increase of \$19.9 million is the largest source of UAL growth. The contributions have been above the “tread water” level (described later in this section, shown in the red bar), resulting in a decrease of \$13.0 million in the UAL. Asset losses (\$1.8 million, yellow bar), liability losses (\$2.7 million, gray bar), and method changes (\$0.6 million, teal bar) have had little net impact over the past 10 years.

Chart II-1



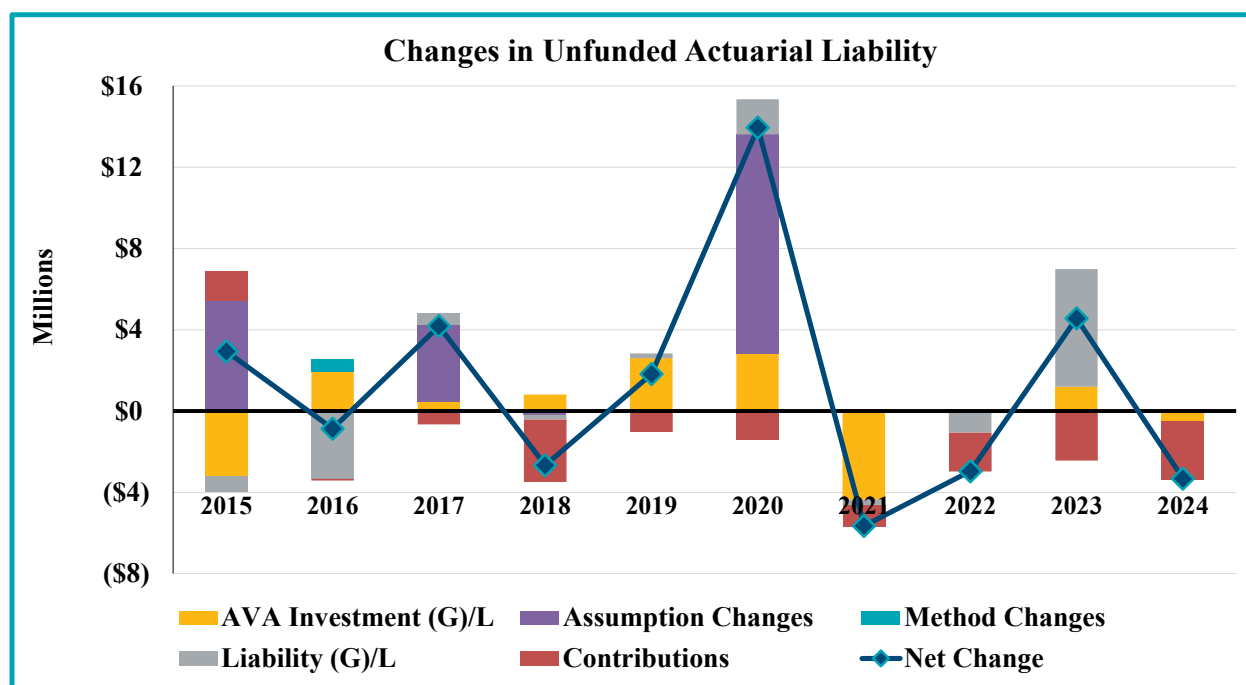
RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024

SECTION II – DISCLOSURES RELATED TO RISK

Each year the UAL is expected to increase for benefits earned in the current year (the normal cost), administrative expenses, and interest on the UAL. This expected increase is referred to as the tread water level. If contributions are greater than the tread water level, the UAL is expected to decrease. Conversely, if contributions are less than the tread water level, the UAL is expected to increase. The amortization policy (as well as the contribution-timing lag) can impact whether or not the contributions exceed the tread water level. Contributions above the “tread-water” level (red bar) have decreased the UAL by \$13.0 million.

Chart II-2 below details the annual sources of the UAL change (colored bars) for each valuation year. The net UAL change for each year is represented by the blue diamonds.

Chart II-2



The impact of all assumption changes is represented by the purple bars. In 2015 and 2020, there were experience studies performed, which resulted in significant increases in liabilities, primarily due to changes in the salary assumption and method changes and reductions in the discount rate. The discount rate was also reduced in 2017.

On the liability side (gray bars), the Plan has experienced gains and losses, increasing the UAL by approximately \$2.7 million over the 10-year period resulting from participants retiring, terminating, becoming disabled and dying at rates different from the actuarial assumptions as well as unexpected changes in salaries. Most of this type of activity is normal in the course of Plan experience. The Plan will experience actuarial gains and losses over time because we cannot predict exactly how people will behave. When a plan experiences alternating gains and losses that are small compared to the total actuarial liability, the Plan’s actuarial assumptions are reasonable.



**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION II – DISCLOSURES RELATED TO RISK**

The method change that increased the UAL by \$0.6 million is a result of the reallocation of assets between ATU and IBEW in 2016, when the plans began reporting on a separate basis.

While the net investment gains and losses have not been the largest driver of UAL changes over the past 10 years, the year-to-year investment volatility can have a large impact on the UAL and is unpredictable. For example, the actuarial investment loss in 2020 was \$2.8 million compared to the \$4.3 million actuarial gain in 2021.

Table II-1 below shows the same information as Chart II-2, but the annual source of the UAL change is shown numerically.

<b>Table II-1</b> <b>Unfunded Actuarial Liability (UAL) Change by Source</b>						
<b>Valuation Year</b>	<b>Assumption Changes</b>	<b>Method Changes</b>	<b>Contributions</b>	<b>Investment Experience</b>	<b>Liability Experience</b>	<b>Total UAL Change</b>
<b>2015</b>	5,462,978	0	1,432,127	(3,181,791)	(777,851)	2,935,464
<b>2016</b>	0	604,762	(87,435)	1,937,815	(3,324,546)	(869,404)
<b>2017</b>	3,786,867	0	(646,075)	473,857	564,582	4,179,231
<b>2018</b>	(181,711)	0	(3,066,194)	811,286	(232,751)	(2,669,370)
<b>2019</b>	0	0	(1,017,419)	2,599,812	237,141	1,819,535
<b>2020</b>	10,785,510	0	(1,395,665)	2,826,815	1,729,434	13,946,094
<b>2021</b>	0	0	(1,046,149)	(4,339,811)	(269,085)	(5,655,044)
<b>2022</b>	0	0	(1,904,165)	(143)	(1,056,070)	(2,960,378)
<b>2023</b>	0	0	(2,431,167)	1,200,719	5,791,385	4,560,936
<b>2024</b>	0	0	(2,872,887)	(481,902)	28,141	(3,326,649)
<b>Total</b>	<b>\$ 19,853,644</b>	<b>\$ 604,762</b>	<b>\$ (13,035,027)</b>	<b>\$ 1,846,657</b>	<b>\$ 2,690,380</b>	<b>\$ 11,960,415</b>

## SECTION II – DISCLOSURES RELATED TO RISK

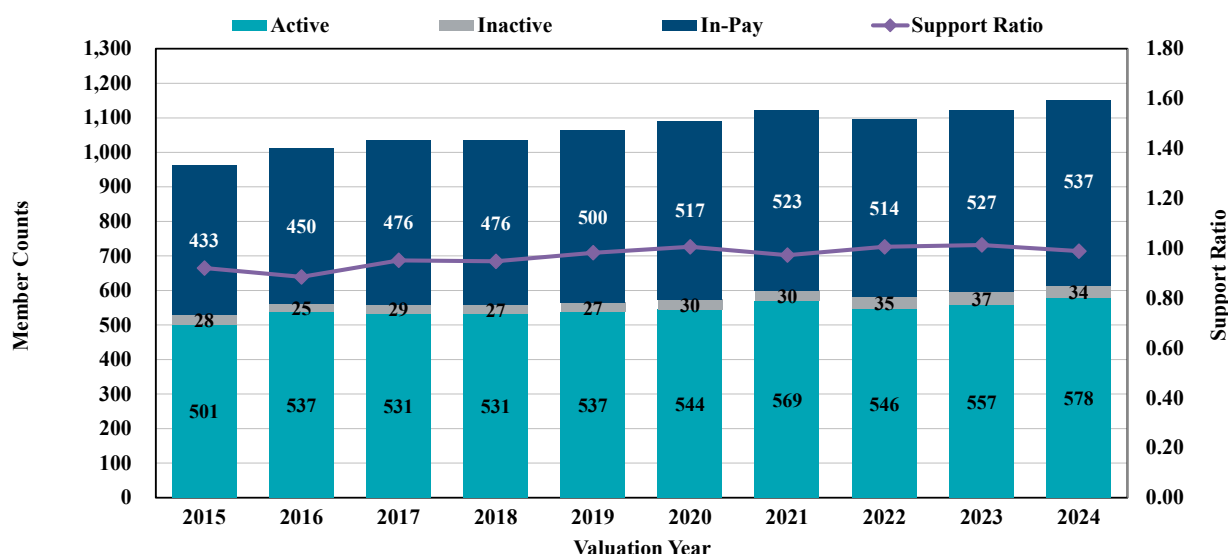
### Plan Maturity Measures

The future financial condition of a mature pension plan is more sensitive to each of the risks identified above than a less mature plan. Before assessing each of these risks, it is important to understand the maturity of the plan compared to other plans and how the maturity has changed over time.

Plan maturity can be measured in a variety of ways, but they all get at one basic dynamic – the larger the plan is compared to the contribution or revenue base that supports it; the more sensitive the plan will be to risk. The measures on the following pages have been selected as the most important in understanding the primary risks identified for the plan.

#### Inactives per Active (Support Ratio)

One simple measure of plan maturity is the ratio of the number of inactive members (those receiving benefits or inactives – those entitled to a deferred benefit) to the number of active members. The Support Ratio is expected to increase gradually as a plan matures. The chart below shows the Support Ratio has gradually grown from 0.92 in 2015 to 0.99 in 2024 as the number of retired members increased at a faster rate than the number of active members.



#### Leverage Ratios

Leverage or volatility ratios measure the size of the plan compared to its revenue base more directly. The asset leverage ratio is simply the market value of assets to active member payroll and indicates the sensitivity of the Plan to investment returns. The liability leverage ratio is the Plan's Actuarial Liability to active member payroll and indicates the sensitivity of the Plan to assumption changes or demographic experience.

The Plan assets are currently around four times covered payroll. As the Plan becomes better funded, the asset leverage ratio will increase, and if it were 100% funded, the asset leverage ratio would be just under five and equal the Actuarial Liability (AL) leverage ratio. Although both of

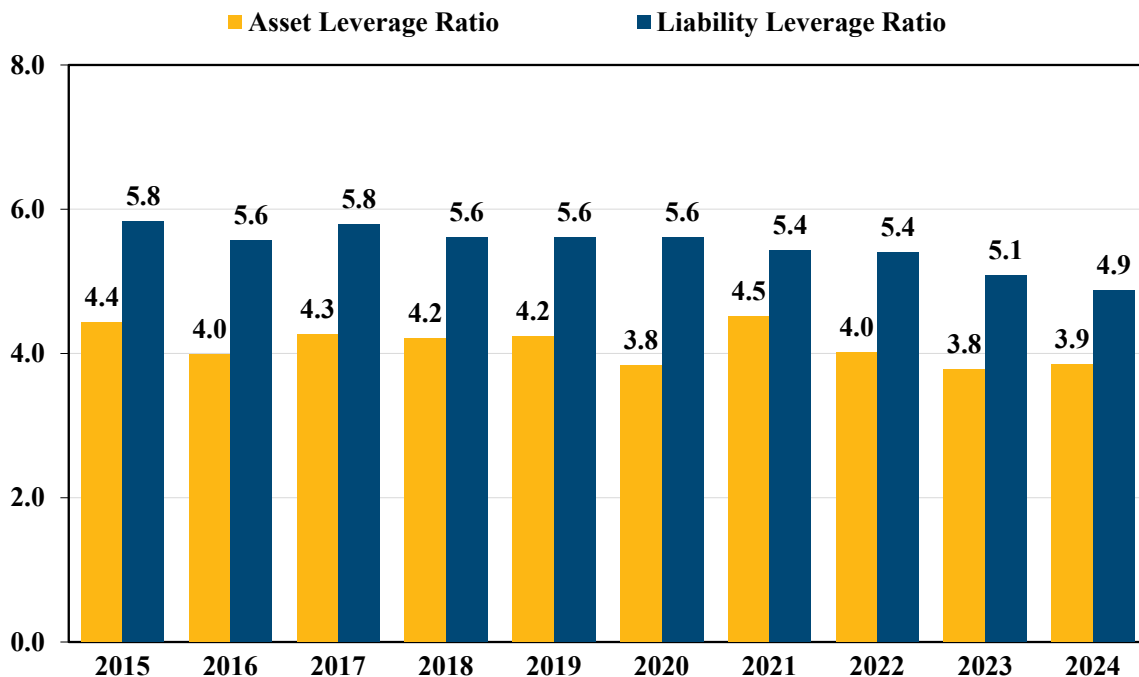
**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION II – DISCLOSURES RELATED TO RISK**

these ratios are lower than those of many other public plans, the increase in the asset leverage ratio expected to accompany an improvement in the Plan's funding still represents a substantial increase in the volatility of the contributions.

An asset leverage ratio of 3.9 means that if the Plan's assets lose 10% of their value (a 16.75% actuarial loss compared to the expected return of 6.75%), the loss is about 66% of payroll ( $3.9 \times 16.75\%$ ). Based on the Plan's amortization policy, the contribution rate would ultimately increase by approximately 4.7% of payroll if asset smoothing were not applied and the loss were amortized over 20 years. The same investment loss if the Plan were 100% funded would be around 82% of payroll and an ultimate contribution rate increase of about 5.9% of payroll, if amortized over 20 years.

The chart below shows the historical leverage ratios of the Plan. The ratios have declined slightly since 2015, as payroll has grown faster than the changes in liabilities and assets.



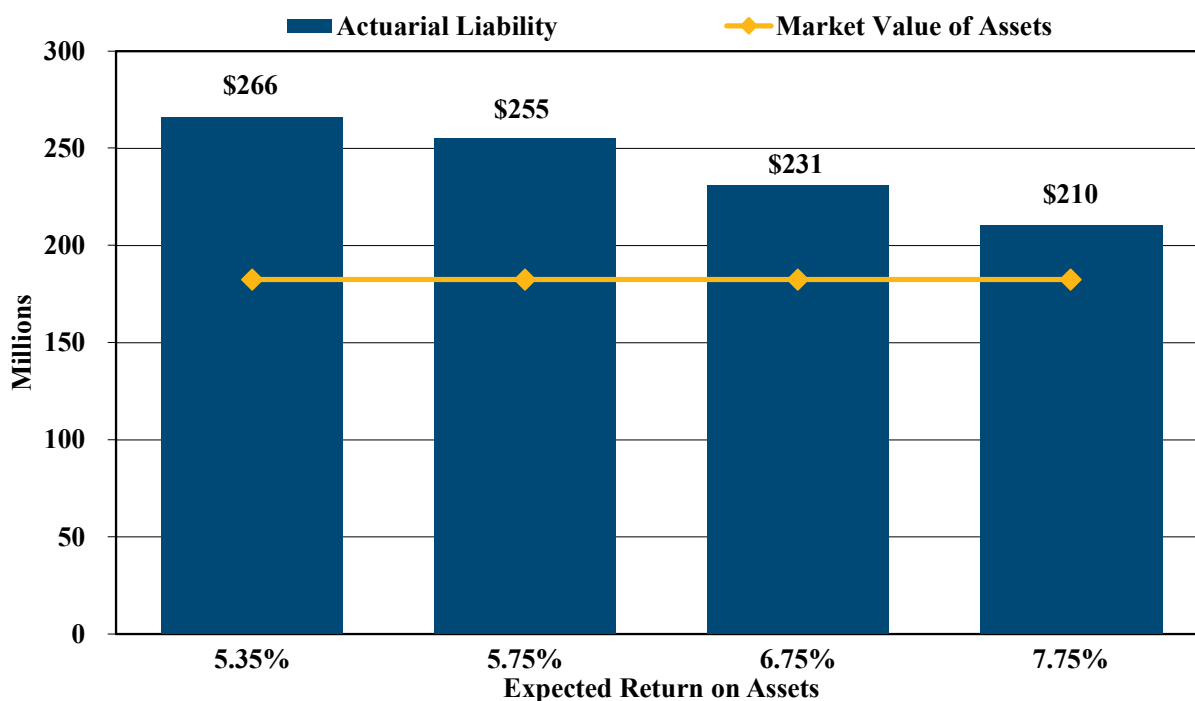
## SECTION II – DISCLOSURES RELATED TO RISK

### Assessing Costs and Risks

#### Sensitivity to Investment Returns

The chart below compares the Market Value of Assets (line) to the Actuarial Liabilities (bars) discounted at the current expected rate of return (6.75%) and at discount rates 100 basis points above and below the expected rate of return. In addition, we have added an additional measurement, the Low Default Risk Obligation Measure (LDROM), which is the Actuarial Liability using a discount rate derived from low-default-risk fixed income securities that approximately match the benefit payments of the plan.

Actuarial Liability versus Assets



If investments return 6.75% annually, the Plan would need approximately \$231 million in assets today to pay the benefits associated with the service earned to date, compared to current Market Value of Assets of \$182 million. If investment returns are only 5.75%, the Plan would need approximately \$255 million in assets today, and if investment returns are 7.75%, the Plan would need approximately \$210 million in assets today.

ATU invests in a diversified portfolio to achieve the best possible returns at an acceptable level of risk. ATU's average geometric return on the Market Value of Assets over the last 10 years is 6.3%. Please refer to Table III-5 (page 25) for the asset returns by year since 2010.

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION II – DISCLOSURES RELATED TO RISK**

The low-risk portfolio for a pension plan would be composed entirely of low-default-risk fixed income securities whose cash flows approximately match the benefit cash flows of the plan. However, such a portfolio would have a lower expected rate of return (5.35% as of June 30, 2024<sup>1</sup>) than the diversified portfolio (6.75%). The LDROM represents what the present value of future benefits would be if ATU's assets were invested in such a portfolio. As of June 30, 2024, the LDROM is \$266 million compared to Actuarial Liability of \$231 million for ATU. The \$35 million difference can be viewed as the expected savings from taking on the investment risk of the diversified portfolio. Alternatively, it can be viewed as the potential cost of minimizing the investment risk.

If ATU were to invest in the LDROM portfolio and not a diversified portfolio, the funded status would be lower, and the expected contribution requirements would increase. The security of ATU's pension benefits relies on current assets, future investment earnings, and the ability and willingness of the employer to make future contributions. If ATU were to invest in the LDROM portfolio, it would not change current assets, but it could potentially reduce future investment earnings, potentially changing the level of reliance on future employer contributions. However, investing in an LDROM portfolio would generate more predictable future investment earnings and future contributions.

---

<sup>1</sup> Assumes a 5.35% discount rate, which is based on the June 30, 2024 FTSE Pension Liability Index and all other assumptions and methods as used to calculate the Actuarial Liability.

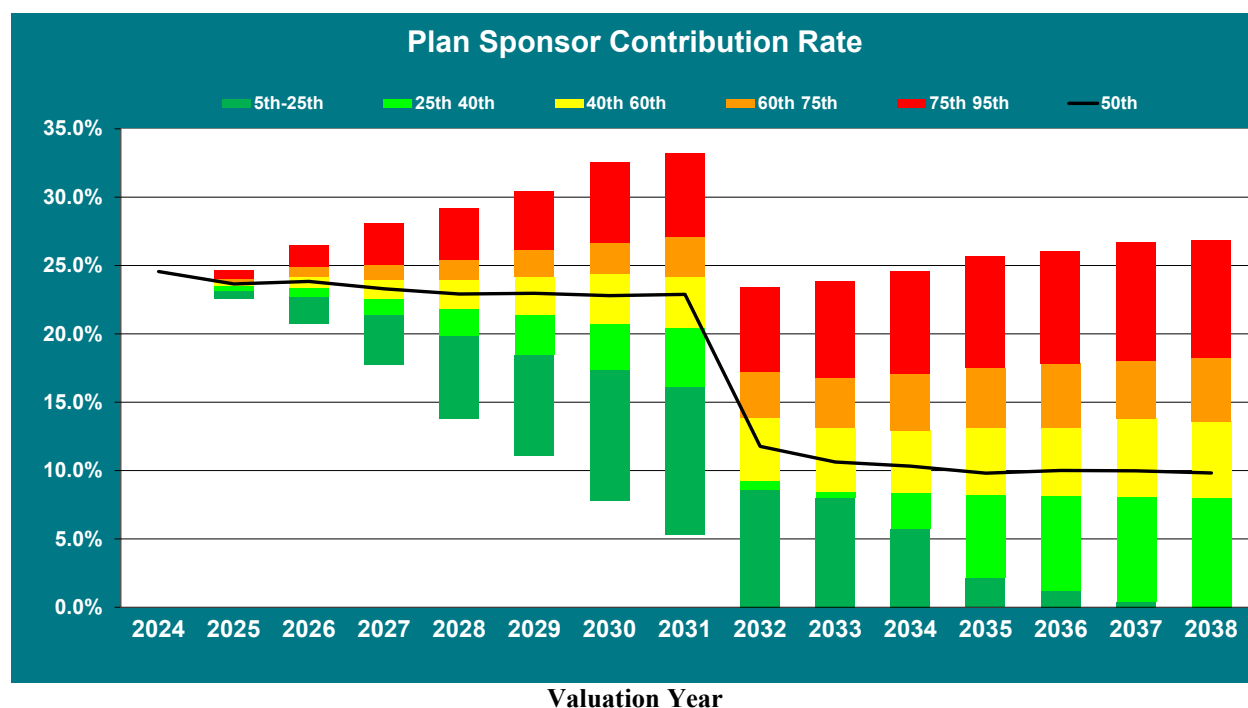
RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024

SECTION II – DISCLOSURES RELATED TO RISK

Stochastic Projections

Stochastic projections serve to show the range of probable outcomes of various measurements. The chart below and on the following page show the projected range of the employer contribution rate and of the funded ratio on an Actuarial Value of Assets basis. The range in both scenarios is driven by the volatility of investment returns (assumed to be based on a 12.4% standard deviation of annual returns, as provided by the Plan's investment consultant and described in the 2020 Experience Study Report). The stochastic projections of investment returns are based on an assumption that each future year's investment return is independent from all other years and is identically distributed according to a lognormal distribution. This assumption may result in an unrealistically wide range of compound investment returns over longer periods.

Stochastic Projection of Employer Contributions as a Percent of Pay

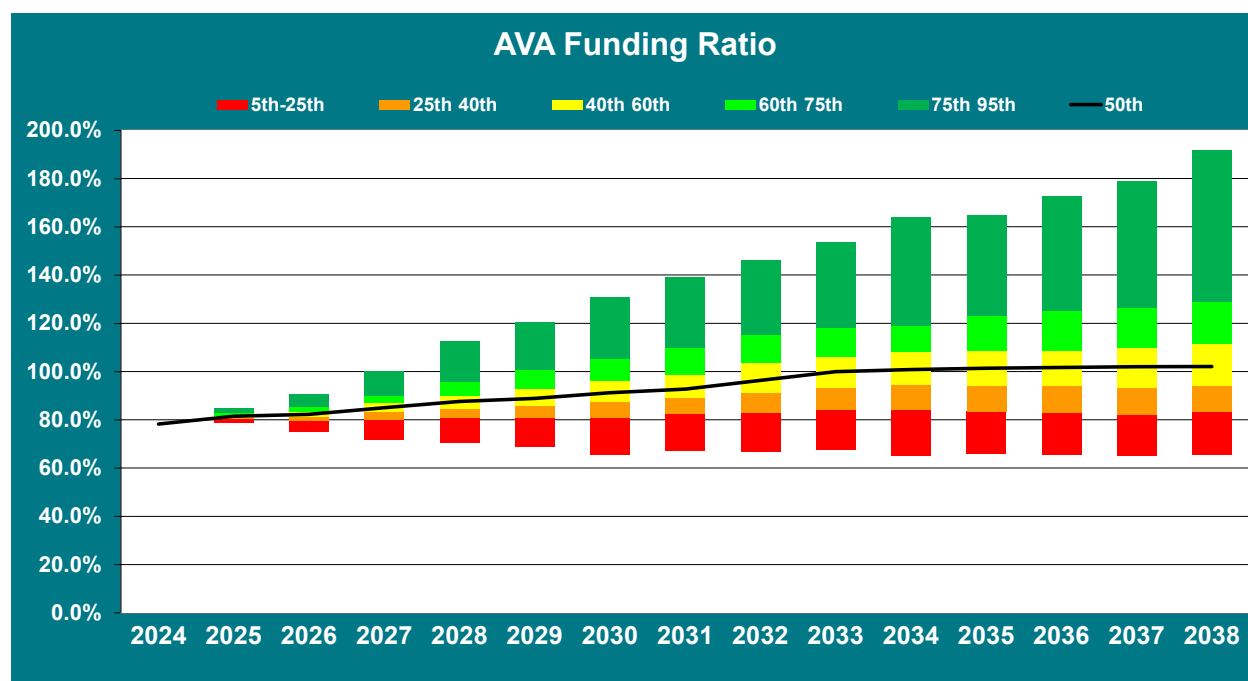


The stochastic projection of employer contributions, shown here as of the valuation date and payable the following fiscal year, shows the probable range of future contribution rates as a percentage of pay. The baseline contribution rate (black line), which is based on the median of the simulations using an average return of 6.75%, aligns closely with the projections discussed in subsection D of the Executive Summary of this report. In the most pessimistic scenario shown, the 95<sup>th</sup> percentile, the projected employer contribution rate is between 30% and 35% of pay in the 2031 valuation (FYE 2033). Conversely, the most optimistic scenario shown, the 5<sup>th</sup> percentile, the projected employer contribution falls below 10% starting with the 2030 valuation (FYE 2032). We note that these projections set the employer contribution to not fall below the normal cost unless the funded ratio exceeds 120%, as required under PEPR.

RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024

SECTION II – DISCLOSURES RELATED TO RISK

Stochastic Projection of Funded Ratio on an Actuarial Value of Assets Basis



The graph above shows the projection of the funded ratio based on the Actuarial Value of Assets. It is based on the Plan's layered amortization policy, where the UAL that existed as of July 1, 2019 is paid off over the next eight years, and all future gains or losses are amortized over a new closed 20-year period. While the baseline-funded ratio (black line) is projected to be nearly 100% at the end of the period shown here, there is a wide range of potential outcomes. Good investment returns have the likelihood of bringing the funded ratio well over 100%.

Under the current funding policy of the Plan, even in scenarios with unfavorable investment returns the Plan is projected to remain close to 60% funded on an actuarial value of assets basis, as long as the actuarially determined contributions continue to be made.

**Contribution Risk**

While investment returns are typically the dominant factor in volatility, contribution rates can also be sensitive to future salary increases and the hiring of new members. When member payroll growth stagnates or even declines, the dollar level of contributions made to the Plan also stagnates or declines since contributions are based on payroll levels, though this will generally only present a funding issue if there is an extended period of payroll reductions.

There is also a risk of the contribution rate increasing even higher when payroll decreases since the Plan's funding policy amortizes the UAL as a level percentage of pay. This means that the UAL payments increase at the assumed payroll growth rate of 2.75%, so that the payment is expected to remain constant as a percentage of payroll. If payroll growth is less than the expected 2.75% or there is a decline in payroll, the UAL payments are spread over a smaller payroll base

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION II – DISCLOSURES RELATED TO RISK**

and the contribution rate as a percentage of pay increases, making the Plan less affordable for sponsors with declining revenue bases.

For example, the UAL Amortization rate as of June 30, 2024 for the FYE 2026 is 13.33%. If the projected payroll for FYE 2026 were 2.75% lower, all else being equal, the UAL Amortization rate would increase to 13.71%.

**More Detailed Assessment**

While a more detailed assessment is always valuable to enhance the understanding of the risks identified above, we believe the scenarios illustrated above cover the primary risks facing the Plan at this time. We would be happy to provide the Board with a more in-depth analysis at their request.



**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

### SECTION III – ASSETS

Pension Plan assets play a key role in the financial operation of the Plan and in the decisions the Board may make with respect to future deployment of those assets. The level of assets, the allocation of assets among asset classes, and the methodology used to measure assets will likely impact benefit levels, employer contributions, and the ultimate security of participants' benefits.

In this section, we present detailed information on Plan assets including:

- **Disclosure** of Plan assets as of June 30, 2023 and June 30, 2024
- Statement of the **changes** in market values during the year
- Development of the **Actuarial Value of Assets**

#### **Disclosure**

There are two types of asset values disclosed in the valuation, the Market Value of Assets and the Actuarial Value of Assets. The market value represents “snapshot” or “cash out” values, which provide the principal basis for measuring financial performance from one year to the next. Market values, however, can fluctuate widely with corresponding swings in the marketplace. As a result, market values are usually not as suitable for long-range planning as are the Actuarial Value of Assets, which reflect smoothing of annual investment returns.

Table III-1 discloses and compares each component of the market asset value as of June 30, 2023 and June 30, 2024.

Table III-1 Statement of Assets at Market Value June 30,			
Investments	2023	2024	
Cash and Cash Equivalents	\$ 9,126,920	\$ 9,475,700	
Equity Securities	110,120,195	123,348,793	
Fixed Income Securities	40,256,470	47,838,390	
Real Estate	16,108,690	14,939,435	
Total Investments	\$ 175,612,275	\$ 195,602,318	
<b>Receivables:</b>			
Securities Sold	\$ 3,301,193	\$ 1,669,042	
Interest and Dividends	296,802	310,224	
Other Receivable	15,907	16,288	
Total Receivables	\$ 3,613,902	\$ 1,995,554	
<b>Payables</b>			
Accounts Payable	\$ (395,186)	\$ (334,707)	
Benefits Payable	0	0	
Other Payable	(12,757,315)	(14,824,023)	
Total Payables	\$ (13,152,501)	\$ (15,158,730)	
<b>Market Value of Assets</b>	<b>\$ 166,073,676</b>	<b>\$ 182,439,142</b>	

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION III – ASSETS**

**Changes in Market Value**

The components of asset change are:

- Contributions (employer and employee)
- Benefit payments
- Expenses (investment and administrative)
- Investment income (realized and unrealized)

Table III-2 shows the components of a change in the Market Value of Assets during 2023 and 2024.

<b>Table III-2 Changes in Market Values</b>		
	<b><u>2023</u></b>	<b><u>2024</u></b>
<b>Contributions</b>		
Employer's Contribution	\$ 10,500,021	\$ 11,437,314
Members' Contributions	<u>1,429,978</u>	<u>1,911,287</u>
Total Contributions	\$ <u>11,929,999</u>	\$ <u>13,348,601</u>
<b>Investment Income</b>		
Interest & Dividends	\$ 2,977,294	\$ 3,164,926
Realized & Unrealized Gain/(Loss)	9,347,186	15,140,602
Other Investment Income	0	0
Investment Expenses	<u>(823,418)</u>	<u>(858,392)</u>
Total Investment Income	\$ <u>11,501,062</u>	\$ <u>17,447,136</u>
<b>Disbursements</b>		
Benefit Payments	\$ (13,450,294)	\$ (14,134,387)
Administrative Expenses	(289,981)	(295,884)
Transfer from/(to) Union Plans	<u>(248,765)</u>	<u>0</u>
Total Disbursements	\$ <u>(13,989,040)</u>	\$ <u>(14,430,271)</u>
<b>Net increase (Decrease)</b>	\$ 9,442,021	\$ 16,365,466
<b>Net Assets Held in Trust for Benefits:</b>		
Beginning of Year	\$ <u>156,631,655</u>	\$ <u>166,073,676</u>
End of Year	\$ <u>166,073,676</u>	\$ <u>182,439,142</u>
Approximate Return	7.39%	10.54%
Administrative Expenses as a Percentage of Mean Assets	0.17%	0.16%

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION III – ASSETS**

**Actuarial Value of Assets (AVA)**

The Actuarial Value of Assets represents a “smoothed” value developed by the actuary to reduce the volatile results that could develop due to short-term fluctuations in the Market Value of Assets. For this Plan, the Actuarial Value of Assets is calculated on a modified market-related value. The Market Value of Assets is adjusted to recognize, over a five-year period, investment earnings which are greater than (or less than) the assumed investment return.

<b>Table III-3 Development of Actuarial Value of Assets as of July 1, 2024</b>							
Year	(a) Total Contributions	(b) Total Disbursements	(c) Expected Return	(d) Actual Return	(e) = (d) – (c) Additional Earnings	(f) Not Recognized	(g) = (e) x (f) Unrecognized Earnings
2019-2020	9,550,287	(12,699,669)	9,896,436	2,523,724	(7,372,712)	0%	0
2020-2021	10,621,104	(13,358,322)	9,185,251	36,857,731	27,672,480	20%	5,534,496
2021-2022	11,609,641	(14,176,773)	11,494,032	(12,345,778)	(23,839,810)	40%	(9,535,924)
2022-2023	11,929,999	(13,989,040)	10,504,279	11,501,062	996,783	60%	598,070
2023-2024	13,348,601	(14,430,271)	11,174,063	17,447,136	6,273,073	80%	5,018,458
1. Total Unrecognized Dollars							1,615,100
2. Market Value of Assets as of June 30, 2024							182,439,142
3. Actuarial Value of Assets as of June 30, 2024: [(2) - (1)]							180,824,042
4. Ratio of Actuarial Value to Market Value [(3) ÷ (2)]							99.11%

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION III – ASSETS**

**Investment Performance**

The following table calculates the investment related gain/loss for the Plan year on both a market value and an actuarial value basis. The market value gain/loss is an appropriate measure for comparing the actual asset performance to the previous valuation's long-term 6.75% assumption.

<b>Table III-4 Asset Gain/(Loss)</b>		
	<b>Market Value</b>	<b>Actuarial Value</b>
<b>July 1, 2023 value</b>	<b>\$ 166,073,676</b>	<b>\$ 169,985,686</b>
Employer Contributions	11,437,314	11,437,314
Employee Contributions	1,911,287	1,911,287
Benefit Payments and Expenses	(14,430,271)	(14,430,271)
Transfer In / (Out) from ATU	0	0
Expected Investment Earnings (6.75%)	11,174,063	11,438,124
Expected Value June 30, 2024	<b>\$ 176,166,069</b>	<b>\$ 180,342,140</b>
Investment <b>Gain / (Loss)</b>	<b>6,273,073</b>	<b>481,902</b>
<b>July 1, 2024 value</b>	<b>\$ 182,439,142</b>	<b>\$ 180,824,042</b>
Return	10.54%	7.03%

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION III – ASSETS**

The table below shows the historical annual asset returns on a market value and actuarial value basis.

<b>Table III-5 Historical Return on Assets</b>		
<b>Year Ended June 30</b>	<b>Market Value Return</b>	<b>Actuarial Return</b>
2011	19.91%	4.95%
2012	1.99%	3.32%
2013	13.92%	6.91%
2014	15.12%	12.90%
2015	2.73%	10.44%
2016	-0.66%	6.26%
2017	12.26%	7.12%
2018	6.73%	6.63%
2019	6.09%	5.31%
2020	1.85%	5.20%
2021	27.09%	9.81%
2022	-7.25%	6.75%
2023	7.39%	6.01%
2024	10.54%	7.03%

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION IV – LIABILITIES**

In this section, we present detailed information on Plan liabilities including:

- **Disclosure** of Plan liabilities on July 1, 2023 and July 1, 2024
- Statement of **changes** in these liabilities during the year

**Disclosure**

Several types of liabilities are calculated and presented in this report. Each type is distinguished by the people, ultimately using the figures and the purpose for which they are using them. Note that these liabilities are not applicable for settlement purposes, including the purchase of annuities and the payment of lump sums.

- **Present Value of Future Benefits:** Used for measuring all future Plan obligations represents the amount of money needed today to fully fund all benefits of the Plan both earned as of the valuation date and those to be earned in the future by current plan participants, under the current Plan provisions.
- **Actuarial Liability:** Used for funding calculations, the normal cost rate is equal to the total projected value of benefits at entry age, divided by present value of future salary at entry age. The dollar amount of the normal cost is equal to the normal cost rate multiplied by each member's projected pay. The Actuarial Liability is the portion of the present value of future benefits not covered by future expected normal costs. This method is called **Entry Age to Final Decrement (EAFD)**.
- **Unfunded Actuarial Liability:** The excess of the Actuarial Liability over the Actuarial Value of Assets.

Table IV-1 discloses each of these liabilities for the current and prior valuations.

Table IV-1			
Liabilities/Net (Surplus)/Unfunded			
		July 1, 2023	July 1, 2024
<b><u>Present Value of Future Benefits</u></b>			
Active Participant Benefits	\$	138,454,976	\$ 145,862,036
Retiree and Inactive Benefits		134,292,531	138,807,307
<b>Present Value of Future Benefits (PVB)</b>	<b>\$</b>	<b>272,747,507</b>	<b>\$ 284,669,343</b>
<b><u>Actuarial Liability</u></b>			
Present Value of Future Benefits (PVB)	\$	272,747,507	\$ 284,669,343
Present Value of Future Normal Costs (PVFNC)		49,265,098	53,675,227
<b>Actuarial Liability (AL = PVB – PVFNC)</b>	<b>\$</b>	<b>223,482,409</b>	<b>\$ 230,994,116</b>
Actuarial Value of Assets (AVA)		169,985,686	180,824,042
<b>Net (Surplus)/Unfunded (AL – AVA)</b>	<b>\$</b>	<b>53,496,723</b>	<b>\$ 50,170,074</b>

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION IV – LIABILITIES**

**Changes in Liabilities**

Each of the Liabilities disclosed in the prior table are expected to change at each valuation. The components of that change, depending upon which liability is analyzed, can include:

- New hires since the last valuation
- Benefits accrued since the last valuation
- Plan amendments increasing benefits
- Passage of time which adds interest to the prior liability
- Benefits paid to retirees since the last valuation
- Participants retiring, terminating, or dying at rates different than expected
- A change in actuarial or investment assumptions
- A change in the actuarial funding method or software
- Transfers of liabilities from one plan to another

Unfunded liabilities will change because of all of the above, and also due to changes in Plan assets resulting from:

- Employer contributions are different than expected
- Investment earnings are different than expected
- A change in the method used to measure plan assets
- Transfer of assets from one plan to another

Table IV-2		
Changes in Actuarial Liability		
Actuarial Liability at July 1, 2023	\$	223,482,409
Actuarial Liability at July 1, 2024	\$	230,994,116
Liability Increase (Decrease)		7,511,707
Change due to:		
Actuarial Methods / Software Changes	\$	0
Plan Changes		0
Assumption Changes		0
Transfer In / (Out) from ATU		0
Accrual of Benefits		6,777,143
Actual Benefit Payments		(14,134,387)
Interest		14,840,810
Actuarial (Gain)/Loss		28,141

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION IV – LIABILITIES**

<b>Table IV-3 Development of Actuarial Gain / (Loss)</b>		
1. Unfunded Actuarial Liability at Start of Year (not less than zero)	\$	53,496,723
2. Employer Normal Cost at Middle of Year		6,777,143
3. Interest on 1. and 2. to End of Year		3,836,023
4. Expected Contributions and Admin Expenses in Prior Year		12,960,499
5. Interest on 4. to End of Year		430,275
6. Change in Unfunded Actuarial Liability Due to Changes in Actuarial Methods		0
7. Change in Unfunded Actuarial Liability Due to Changes in Assumptions		0
8. Change in Unfunded Actuarial Liability Due to Changes in Plan Design		0
9. Expected Unfunded Actuarial Liability at End of Year [1. + 2. + 3. – 4. – 5. + 6. + 7. + 8.]	\$	50,719,115
10. Actual Unfunded Actuarial Liability at End of Year (not less than zero)		50,170,074
11. Actuarial Gain / (Loss) [9. – 10.]	\$	549,041
Actuarial Gain / (Loss) From Liabilities more than expected		(28,141)
Actuarial Gain / (Loss) From Actuarial Asset returns more than expected		481,902
Actuarial Gain / (Loss) From Expenses less than expected		11,396
Actuarial Gain / (Loss) From Contributions more than Actuarial Cost		83,883
Actuarial Gain / (Loss) From Transfer to Salaried Plan		0



**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION V – CONTRIBUTIONS**

In the process of evaluating the financial condition of any pension plan, the actuary analyzes the assets and liabilities to determine what level (if any) of contributions is needed to properly maintain the funding status of the Plan. Typically, the actuarial process will use a funding technique that will result in a pattern of contributions that are both stable and predictable.

For this Plan, the actuarial funding method used to determine the normal cost and the Unfunded Actuarial Liability is the **Entry Age to Final Decrement (EAFD)** cost method.

The normal cost rate for each member is determined with the normal cost percentage equal to the total projected value of benefits at entry age, divided by present value of future salary at entry age. Normal cost contributions are assumed to be made throughout the year, or on average mid-year.

The Unfunded Actuarial Liability is the difference between the EAFD Actuarial Liability and the Actuarial Value of Assets. The UAL rate is based on an eight year level percentage of payroll amortization of the remainder of the Unfunded Actuarial Liability as of July 1, 2019, again assuming mid-year payment to reflect the fact that employer contributions are made throughout the year. Effective July 1, 2020, unexpected changes in the UAL are amortized over new closed 20-year schedules, known as layered amortization. The payment for the UAL layer associated with the assumption changes adopted as part of the July 1, 2020 actuarial valuation was phased-in over a three-year period.

Beginning with the July 1, 2013 actuarial valuation, an amount equal to the expected administrative expenses for the Plan is added directly to the actuarial cost calculation. Previously, this cost was implicitly included in the calculation of the normal cost and unfunded liability payment, based on the use of a discount rate that was net of anticipated administrative expenses.

ATU members who were hired on or after January 1, 2015 but before January 1, 2016 contribute 3% of Compensation to the Plan until the first payroll after the first valuation determining that the Plan is at least 100% funded, at which time member contributions will cease following the adoption by the Retirement Board.

Members who were hired on or after January 1, 2016 contribute half of the PEPRAs normal cost of the Plan rounded to the nearest 0.25%. Once established, contribution rate for New Members will be adjusted to reflect a change in the normal cost rate, but only if the normal cost rate changed by more than 1% of payroll. For the Fiscal Year 2024-2025, the contribution rate for PEPRAs members was 7.75% of payroll (1/2 of 15.47%, rounded to the nearest quarter). The normal cost rate for the PEPRAs members as of the July 1, 2024 valuation is 15.28%, and since the decrease is less than 1%, the rate for the following fiscal year remains at 7.75%. Table V-4 contains the details of this calculation.

The tables on the following pages present the employer contributions for the Plan for the current and prior valuations as well as details on the amortization of the UAL.

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION V – CONTRIBUTIONS**

Table V 1 Development of Employer Contribution Amount		
	July 1, 2023	July 1, 2024
1. Entry Age Normal Cost (Middle of Year)		
a. Termination	\$ 392,247	\$ 424,106
b. Retirement	5,131,165	5,496,705
c. Disability	466,348	500,048
d. Death	140,509	149,299
e. Refunds	146,513	179,921
f. Total Active Liability: (a) + (b) + (c) + (d) + (e)	\$ 6,276,782	\$ 6,750,079
2. Entry Age Actuarial Liability		
<u>Active Members</u>		
a. Termination	\$ 1,135,951	\$ 1,211,561
b. Retirement	82,059,395	84,858,839
c. Disability	4,940,261	5,242,975
d. Death	1,589,001	1,634,516
e. Refunds	(534,730)	(761,082)
f. Total Active Liability: (a) + (b) + (c) + (d) + (e)	\$ 89,189,878	\$ 92,186,809
<u>Inactive Members</u>		
g. Termination	\$ 5,632,928	\$ 5,091,476
h. Retirement	104,914,206	109,190,622
i. Disability	10,933,179	10,765,135
j. Death	7,009,915	8,083,973
k. Non-Vested Due Refund	144,859	241,188
l. Transfer	5,657,444	5,434,913
m. Total Inactive Liability: (g) + (h) + (i) + (j) + (k) + (l)	\$ 134,292,531	\$ 138,807,307
n. Total Entry Age Actuarial Liability: (2f) + (2m)	\$ 223,482,409	\$ 230,994,116
3. Actuarial Value of Assets	\$ 169,985,686	\$ 180,824,042
4. Unfunded Actuarial Liability: (2n) - (3)	\$ 53,496,723	\$ 50,170,074
5. Unfunded Actuarial Liability Amortization at Middle of Year as a Level Percentage of Payroll	\$ 6,183,356	\$ 6,313,602
6. Expected Administrative Expenses	\$ 306,914	\$ 314,587
7. Expected Member Contributions	\$ (1,771,099)	\$ (2,109,430)
8. Employer Contribution Payable in Monthly Installments: (1f) + (5) + (6) + (7)	\$ 10,995,953	\$ 11,268,838
9. Covered Payroll (Normal Cost)	\$ 40,686,044	\$ 43,944,674
10. Covered Payroll (UAL Amort and Expenses)	\$ 43,921,861	\$ 47,357,311
11. Employer Contribution as a Percent of Covered Payroll: [(1f) + (7)] / (9) + [(5) + (6)] / (10)	25.86%	24.55%

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION V – CONTRIBUTIONS**

Table V 2 Development of Amortization Payment						
<u>Type of Base</u>	<u>Date Established</u>	<u>Initial Amount</u>	<u>Initial Amortization Years</u>	<u>7/1/2024 Outstanding Balance</u>	<u>Remaining Amortization Years</u>	<u>Amortization Amount</u>
Remaining UAL as of 2019	7/1/2019	\$ 43,605,115	13	\$ 33,709,954	8	\$ 4,957,262
7/1/2020 Experience	7/1/2020	4,532,291	20	4,324,507	16	366,173
Assumption changes	7/1/2020	10,785,510	20	11,057,061	16	936,245
7/1/2021 Experience	7/1/2021	(4,315,905)	20	(4,186,104)	17	(339,359)
7/1/2022 Experience	7/1/2022	(1,121,846)	20	(1,102,394)	18	(85,850)
7/1/2023 Experience	7/1/2023	6,967,583	20	6,916,091	19	518,926
7/1/2024 Experience	7/1/2024	(549,041)	20	(549,041)	20	(39,797)
<b>Total Unfunded Actuarial Liability (UAL)</b>				<b>\$ 50,170,074</b>		<b>\$ 6,313,602</b>

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION V – CONTRIBUTIONS**

Table V-3 shows the allocation of the cost calculation between the groups.

<b>Table V-3 Allocation of Liabilities, Assets, and Cost among Groups</b>				
	<b>ATU Legacy</b>	<b>ATU 2015</b>	<b>PEPRA</b>	<b>Total</b>
Actuarial Liability				
Active	74,788,423	2,340,319	15,058,067	92,186,809
Inactive	<u>138,368,028</u>	<u>0</u>	<u>439,279</u>	<u>138,807,307</u>
Total Actuarial Liability	213,156,451	2,340,319	15,497,346	230,994,116
Market Value of Assets				182,439,142
Actuarial Value of Assets				180,824,042
Unfunded Actuarial Liability (UAL)				50,170,074
UAL Amortization (Middle of Year)	2,391,744	166,241	3,755,617	6,313,602
Total Normal Cost (Middle of Year)	2,452,785	209,449	4,087,844	6,750,079
Expected Employee Contributions	0	(36,578)	(2,072,852)	(2,109,430)
Administrative Expense	<u>119,173</u>	<u>8,283</u>	<u>187,131</u>	<u>314,587</u>
Employer Contribution Payable Monthly	4,963,702	347,396	5,957,740	11,268,838
Covered Payroll (Normal Cost)	15,978,940	1,219,262	26,746,472	43,944,674
Covered Payroll (UAL Amort and Admin)	17,940,084	1,246,949	28,170,278	47,357,311
Total Normal Cost as a % of Payroll	15.35%	17.18%	15.28%	15.36%
Employee Contribution Rate	<u>0.00%</u>	<u>( 3.00%)</u>	<u>( 7.75%)</u>	<u>( 4.80%)</u>
Employer Normal Cost as a % of Payroll	15.35%	14.18%	7.53%	10.56%
UAL Amortization Rate	13.33%	13.33%	13.33%	13.33%
Administrative Expense Rate	<u>0.66%</u>	<u>0.66%</u>	<u>0.66%</u>	<u>0.66%</u>
Total Contribution as a % of Payroll	29.34%	28.17%	21.52%	24.55%

Table V-4 on the following page shows the allocation of the cost calculation between PEPRA and Non-PEPRA members.

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**SECTION V – CONTRIBUTIONS**

Table V 4 ATU PEPRA/Non PEPRA Summary			
	Non PEPRA	PEPRA	Total
1. Entry Age Normal Cost (Middle of Year)	\$ 2,662,235	\$ 4,087,844	\$ 6,750,079
2. Covered Payroll (Normal Cost)	\$ 17,198,202	\$ 26,746,472	\$ 43,944,674
3. Normal Cost as a Percent of Covered Payroll: (1) / (2)	15.48%	15.28%	15.36%
4. Expected Employee Contributions as a Percent of Covered Payroll	( 0.21%)	( 7.75%)	( 4.80%)
5. Entry Age Actuarial Liability	\$ 215,496,770	\$ 15,497,346	\$ 230,994,116
6. Actuarial Value of Assets			\$ 180,824,042
7. Unfunded Actuarial Liability: (5) - (6)			\$ 50,170,074
8. Unfunded Actuarial Liability Amortization at Middle of Year as a Level Percentage of Payroll	\$ 2,557,985	\$ 3,755,617	\$ 6,313,602
9. Expected Administrative Expenses	\$ 127,456	\$ 187,130	\$ 314,587
10. Expected Employee Contributions	\$ (36,578)	\$ (2,072,852)	\$ (2,109,430)
11. Employer Contribution Payable in Monthly Installments: (1) + (8) + (9) + (10)	\$ 5,311,098	\$ 5,957,740	\$ 11,268,838
12. Covered Payroll (UAL Amort and Expenses)	\$ 19,187,033	\$ 28,170,278	\$ 47,357,311
13. Total Contribution as a Percent of Covered Payroll: [(1) + (10)] / (2) + [(8) + (9)] / (12)	29.26%	21.52%	24.55%

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**APPENDIX A – MEMBERSHIP INFORMATION**

The data for this valuation was provided by the Sacramento Regional District Transit staff as of July 1, 2024.

<b>Active Participants</b>	<b>July 1, 2023</b>	<b>July 1, 2024</b>
Classic	242	221
PEPRA	315	357
Total Number	557	578
Number Vested	259	312
Average Age	49.8	49.4
Average Service	9.2	8.9
Average Pay	\$78,854	\$81,933
<b>Retired</b>		
Number	399	408
Average Age	71.5	71.7
Average Annual Benefit	\$28,846	\$29,393
<b>Beneficiaries</b>		
Number	61	62
Average Age	74.0	74.0
Average Annual Benefit	\$14,245	\$16,007
<b>Disabled</b>		
Number	67	67
Average Age	68.3	69.1
Average Annual Benefit	\$19,308	\$19,379
<b>Term Vested</b>		
Number	37	34
Average Age	50.4	49.9
Average Annual Benefit	\$16,190	\$15,874
<b>Transferred</b>		
Number	19	17
Average Age	53.3	52.7
Average Annual Benefit	\$32,354	\$34,028
<b>Term Non-Vested / Due Refund</b>		
Number	51	73
Average Estimated Refund	\$2,840	\$3,306

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**APPENDIX A – MEMBERSHIP INFORMATION**

<b>Changes in Plan Membership: ATU</b>								
	<b>Actives</b>	<b>Actives with Transfer Service</b>	<b>Non Vested Terms with Funds on Account</b>	<b>Vested Terminations</b>	<b>Disabled</b>	<b>Retired</b>	<b>Beneficiaries<sup>1</sup></b>	<b>Total</b>
July 1, 2023	557	19	51	37	67	399	61	1,191
New Entrants	88	0	0	0	0	0	0	88
Rehires	0	0	0	0	0	0	0	0
Disabilities	(1)	0	0	0	1	0	0	0
Retirements	(20)	0	0	(5)	0	25	0	0
Vested Terminations	(2)	0	0	2	0	0	0	0
Died, With Beneficiaries' Benefit Payable, QDRO	0	0	0	0	0	(5)	5	0
Transfers	(6)	1	0	0	0	0	0	(5)
Died, Without Beneficiary, and Other Terminations	(27)	0	26	0	(1)	(14)	0	(16)
Transfer Retirement	0	(3)	0	0	0	3	0	0
Beneficiary Deaths	0	0	0	0	0	0	(4)	(4)
Funds Transferred	0	0	0	0	0	0	0	0
Refund of Contributions, Not entitled to further benefits	(11)	0	(4)	0	0	0	0	(15)
Data Corrections	0	0	0	0	0	0	0	0
July 1, 2024	<b>578</b>	<b>17</b>	<b>73</b>	<b>34</b>	<b>67</b>	<b>408</b>	<b>62</b>	<b>1,239</b>

<sup>1</sup> Beneficiary counts do not include DROs where benefits are paid over the member's lifetime.

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**APPENDIX A – MEMBERSHIP INFORMATION**

Age / Service Distribution Of ATU Active Participants As of July 1, 2024													
Age	Service												Total
	Under 1	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	
Under 20	0	0	0	0	0	0	0	0	0	0	0	0	0
21 to 24	1	2	1	0	0	0	0	0	0	0	0	0	4
25 to 29	9	6	0	1	4	1	0	0	0	0	0	0	21
30 to 34	14	11	2	4	2	16	0	0	0	0	0	0	49
35 to 39	10	11	4	7	5	20	6	2	0	0	0	0	65
40 to 44	7	7	1	7	9	24	12	4	2	0	0	0	73
45 to 49	3	5	3	4	6	14	14	5	7	0	0	0	61
50 to 54	17	10	3	6	9	22	9	11	15	3	0	0	105
55 to 59	7	2	2	8	8	18	6	9	15	7	1	0	83
60 to 64	3	3	3	5	6	11	9	11	14	4	4	0	73
65 to 69	1	1	0	2	0	8	5	4	7	1	1	0	30
70 & up	1	0	0	1	0	1	3	3	2	1	0	2	14
Total	73	58	19	45	49	135	64	49	62	16	6	2	578

Average Age = 49.4

Average Service = 8.9



**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**APPENDIX A – MEMBERSHIP INFORMATION**

Payroll Distribution Of ATU Active Participants As of July 1, 2024													
Age	Service												Total
	Under 1	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	
Under 20	0	0	0	0	0	0	0	0	0	0	0	0	0
21 to 24	47,662	69,282	74,086	0	0	0	0	0	0	0	0	0	65,078
25 to 29	55,964	73,015	0	97,630	79,116	90,508	0	0	0	0	0	0	68,875
30 to 34	51,457	81,858	57,750	81,056	92,229	88,783	0	0	0	0	0	0	74,807
35 to 39	51,799	63,443	72,320	94,911	66,081	85,327	76,718	62,119	0	0	0	0	73,708
40 to 44	59,176	78,972	70,234	102,971	91,097	83,127	85,957	91,880	69,769	0	0	0	83,720
45 to 49	57,706	82,248	99,350	89,221	104,133	82,547	86,374	82,557	67,451	0	0	0	83,835
50 to 54	55,469	73,165	67,871	99,700	92,155	83,881	83,460	80,172	88,464	89,794	0	0	79,815
55 to 59	58,003	88,965	85,305	84,495	90,783	91,860	88,521	83,624	87,202	95,290	110,205	0	86,497
60 to 64	62,200	66,103	72,061	80,310	92,544	94,439	86,670	90,669	87,226	103,910	110,014	0	88,370
65 to 69	61,587	71,890	0	59,861	0	92,406	82,229	94,663	97,819	116,817	104,935	0	89,624
70 & up	60,518	0	0	118,766	0	86,431	98,794	79,753	84,681	103,968	0	97,182	90,646
Total	55,271	74,462	75,661	90,625	89,529	86,901	85,482	84,782	85,838	98,302	109,199	97,182	81,933

Average Salary = \$ 81,933

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**APPENDIX A – MEMBERSHIP INFORMATION**

**Service Retired Participants and  
Beneficiaries**

Age	Number	Average Monthly Benefit
35-39	0	\$0
40-44	2	\$1,540
45-49	1	\$563
50-54	0	\$0
55-59	32	\$2,143
60-64	58	\$2,360
65-69	94	\$2,566
70-74	119	\$2,435
75-79	92	\$2,243
80-84	42	\$1,969
85-89	22	\$1,557
90-94	5	\$2,086
95+	3	\$2,759
<b>Total</b>	<b>470</b>	<b>\$2,302</b>

**Disabled Participants**

Age	Number	Average Monthly Benefit
30-34	0	\$0
35-39	0	\$0
40-44	0	\$0
45-49	0	\$0
50-54	7	\$1,412
55-59	4	\$1,546
60-64	14	\$1,210
65-69	8	\$1,835
70-74	13	\$1,844
75-79	11	\$2,037
80-84	7	\$1,572
85-89	3	\$1,042
90+	0	\$0
<b>All Ages</b>	<b>67</b>	<b>\$1,615</b>

**Terminated Vested Participants**

Age	Number	Average Monthly Benefit
25-29	0	\$0
30-34	1	\$606
35-39	3	\$632
40-44	4	\$1,343
45-49	6	\$1,395
50-54	15	\$1,417
55-59	3	\$1,848
60-64	1	\$1,593
65-69	0	\$0
70-74	1	\$333
75-79	0	\$0
80-84	0	\$0
85-89	0	\$0
90+	0	\$0
<b>All Ages</b>	<b>34</b>	<b>\$1,323</b>

**Transferred Participants**

Age	Number	Average Monthly Benefit
25-29	0	\$0
30-34	0	\$0
35-39	0	\$0
40-44	2	\$1,662
45-49	7	\$2,892
50-54	2	\$2,602
55-59	2	\$3,509
60-64	3	\$2,826
65-69	0	\$0
70-74	1	\$3,937
75-79	0	\$0
80-84	0	\$0
85-89	0	\$0
90+	0	\$0
<b>All Ages</b>	<b>17</b>	<b>\$2,836</b>

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**APPENDIX B – STATEMENT OF ACTUARIAL ASSUMPTIONS AND METHODS**

The assumptions and methods used in the actuarial valuation reflect the results of an experience study performed by Cheiron covering the period from July 1, 2015 through June 30, 2020 and adopted by the Board at their May 5, 2021 meeting. More details on the rationale for the demographic and economic assumptions can be found in the experience study report adopted at that meeting. The combined effect of the assumptions is expected to have no significant bias for the purpose of this measurement.

**A. Contribution Allocation Procedure**

The contribution allocation procedure primarily consists of an actuarial cost method, an asset valuation method, and an amortization method as described below. This contribution allocation procedure, combined with reasonable assumptions, produces a Reasonable Actuarially Determined Contribution as defined in Actuarial Standard of Practice No. 4. The contribution allocation procedure was selected to balance benefit security, intergenerational equity, and the stability of actuarially determined contributions. The selection also considered the demographics of plan members, the funding goals and objectives of the Board, and the need to accumulate assets to make benefit payments when due. There were no changes to the contribution allocation procedures from the prior valuation.

**1. Actuarial Cost Method**

The Entry Age Normal actuarial funding method was used for active employees, whereby the normal cost is computed as the level annual percentage of pay required to fund the retirement benefits between each Member's date of hire and assumed retirement. The Actuarial Liability is the difference between the Present Value of Future Benefits and the Present Value of Future Normal Cost. The Unfunded Actuarial Liability (UAL) is the difference between the Actuarial Liability and the Actuarial Value of Assets.

**2. Amortization Method**

The UAL is amortized as a percentage of projected payroll.

- The amortization period as of July 1, 2024 is eight years for the UAL determined as of July 1, 2019 with 20-year layered amortization for UAL changes after 2019.
- Effective July 1, 2020, unexpected changes in the UAL are amortized over new closed 20-year amortization layers.
- The payment for the UAL layer associated with the assumption changes adopted as part of the July 1, 2020 actuarial valuation was phased-in over a three-year period.

## **APPENDIX B – STATEMENT OF ACTUARIAL ASSUMPTIONS AND METHODS**

### **3. Actuarial Value of Plan Assets**

The actuarial value of Plan assets is calculated on a modified market-related value. The Market Value of Assets is adjusted to recognize, over a five-year period, investment earnings which are greater than (or less than) the assumed investment return on the Market Value of Assets.

## **B. Modeling**

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 and stochastic projections in this valuation report were developed using R-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 Plan. R-scan uses standard roll-forward techniques that implicitly assume a stable active population. Because R-scan does not automatically capture how changes in one variable affect all other variables, some scenarios may not be consistent. We have relied on Cheiron colleagues who developed the tool, and we have used the tool in accordance with its purpose.

## **C. Actuarial Assumptions**

### **1. Rate of Return**

The annual rate of return on all Plan assets is assumed to be 6.75% for the current valuation net of investment, but not administrative, expenses.

### **2. Low-Default-Risk Obligation Measure Discount Rate (effective June 30, 2023)**

The discount rate used to calculate the Low-Default-Risk Obligation Measure (LDROM) is the FTSE Pension Liability Index as of the valuation date. This index was selected because it reflects the types of fixed-income securities the Plan would likely invest in if the Trustees wanted to match cash flows. The rate for this valuation is 5.35%.

### **3. Cost of Living**

The cost of living as measured by the Consumer Price Index (CPI) is assumed to increase at the rate of 2.50% per year.

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**APPENDIX B – STATEMENT OF ACTUARIAL ASSUMPTIONS AND METHODS**

**4. Increases in Pensionable Payroll / Amortization Payments**

Overall pensionable compensation (used in the calculation of amortization payments) is expected to grow by 2.75% per year. The PEPRA Compensation Limit is assumed to increase by 2.50% per year (in line with the increase in the CPI).

**5. Plan Expenses**

Administrative expenses are assumed to be \$314,587 for Fiscal Year 2024-25 and are added directly to the actuarial cost calculation. The expenses are assumed to increase with CPI in future years.

**6. Increases in Pay**

Assumed pay increases for active Participants consist of increases due to wage inflation and those due to longevity and promotion.

Based on an analysis of pay levels and service for the ATU Plan Participants, we assume that pay increases due to longevity and promotion will occur in accordance with the following table:

Salary Increases			
Service	Base	Longevity & Promotion	Total (Compound)
0-2	2.75%	13.00%	16.11%
3	2.75%	11.00%	14.05%
4	2.75%	5.00%	7.89%
5-9	2.75%	2.00%	4.81%
10+	2.75%	0.50%	3.26%

**7. Family Composition**

85% of participants are assumed to be married. Males are assumed to be three years older than their spouses, and females are assumed to be three years younger than their spouses. This assumption is applied to active members, as well as retired members with a joint and survivor benefit where the data is missing the beneficiary date of birth.

**8. Terminal Payments**

Retirement benefits are assumed to be increased by 7.0% due to the application of payments for unused vacation and sick leave to Average Final Monthly Earnings.

No liability adjustment for retirement is used for members who joined the plan on or after January 1, 2015.

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**APPENDIX B – STATEMENT OF ACTUARIAL ASSUMPTIONS AND METHODS**

**9. Missed Pay Periods**

A 2.62% load is applied to the normal cost for ATU PEPRA members to adjust for the missed pay periods in which service is credited yet no contributions are made by the member.

**10. Employment Status**

No Plan participants are assumed to transfer between the ATU Plan and the Salaried Plan.

**11. Rates of Termination**

Rates of termination for all Participants from causes other than death, disability, and service retirement are based on the Participant's age, service, and sex.

Representative rates are shown in the following table:

Termination Rates <sup>1</sup>	
Years of Service	Rate
0-4	10.00%
5-9	4.00%
10-14	3.00%
15-19	3.00%
20+	1.00%

<sup>1</sup> No terminations are assumed after eligibility for normal retirement or after 25 years of service for non-PEPRA members. PEPRA members terminating with at least five years of service are expected to receive a deferred annuity benefit; those terminating with less than five years of service are expected to receive a refund of contributions (with interest).

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**APPENDIX B – STATEMENT OF ACTUARIAL ASSUMPTIONS AND METHODS**

**Rates of Disability**

Rates of disability are based on the age and sex of the Participant. Representative rates are as follows on the following page:

Rates of Disability		
Age	Male	Female
22	0.15%	0.00%
27	0.20%	0.15%
32	0.25%	0.20%
37	0.30%	0.28%
42	0.35%	0.43%
47	0.40%	0.67%
52	0.45%	1.18%
57	0.50%	2.04%
62	0.55%	2.87%

**12. Rates of Mortality for Active Healthy Lives**

Pri-2012 Blue Collar Healthy Employee Headcount-weighted mortality rates for male ATU and IBEW members, and the Cheiron ATU Employee mortality rates adjusted by 105% for female ATU and IBEW members, with generational improvements using MP-2020 from the base year of the tables (2012 and 2016, respectively).

Age	Male	Female
25	0.000709	0.000348
30	0.000755	0.000399
35	0.000858	0.000539
40	0.000970	0.000759
45	0.001177	0.001058
50	0.001712	0.001590
55	0.002789	0.002506
60	0.004543	0.003827
65	0.006927	0.005505

*Rates shown are base rates, prior to  
generational improvements.*

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**APPENDIX B – STATEMENT OF ACTUARIAL ASSUMPTIONS AND METHODS**

**13. Rates of Mortality for Disabled Retirees**

Cheiron ATU Disabled Annuitant mortality for ATU and IBEW members, with no adjustment, with generational improvements using Scale MP-2020 from 2016.

Age	Male	Female
25	0.009707	0.001858
30	0.009632	0.003098
35	0.011224	0.004766
40	0.012844	0.006769
45	0.018315	0.009686
50	0.021187	0.014759
55	0.024130	0.018518
60	0.027997	0.020617
65	0.033476	0.022110
70	0.041983	0.027203
75	0.057023	0.038567

*Rates shown are base rates, prior to  
generational improvements.*

**14. Retired Member and Beneficiary Mortality**

Cheiron ATU Healthy Annuitant mortality for ATU and IBEW members, adjusted by 95% for males and 105% for females, with generational improvements using Scale MP-2020 from 2016.

Age	Male	Female
55	0.008528	0.005455
60	0.010669	0.007998
65	0.012434	0.011577
70	0.018838	0.017144
75	0.031080	0.027626
80	0.053155	0.046543
85	0.091646	0.080753

*Rates shown are base rates, prior to  
generational improvements.*



**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**APPENDIX B – STATEMENT OF ACTUARIAL ASSUMPTIONS AND METHODS**

**15. Rates of Retirement**

Rates of service retirement among all Participants eligible to retire are given by the following table:

Rates of Retirement <sup>1</sup>			
Age	Years of Service		
	10-24	25-29	30+
Under 55	0.00%	9.60%	9.60%
55	7.20%	9.60%	9.60%
56-61	5.00%	9.60%	9.60%
62-64	20.00%	20.80%	20.80%
65	30.00%	30.00%	30.00%
66-69	25.00%	25.00%	25.00%
70+	100.00%	100.00%	100.00%

<sup>1</sup> PEPRA members are assumed to begin retiring at age 52, with at least five years of service.

**16. Changes Since Last Valuation**

No assumptions have been changed since the previous valuation.

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**APPENDIX C – SUMMARY OF PLAN PROVISIONS**

**1. Definitions**

Average Final  
Monthly  
Earnings:

A Participant's Average Final Monthly Earnings is the highest average consecutive 48 months' compensation paid. Payments for accumulated vacation or sick leave not actually taken prior to retirement are included in computing Average Final Monthly Earnings if last 48 months of compensation are used in the calculation.

Compensation:

A Participant's Compensation is the earnings paid in cash to the participant during the applicable period of employment with the District.

PEPRA member's Compensation is computed using base salary, without overtime or other special compensation such as terminal payments. Pensionable compensation for PEPRA members is limited to the PEPRA Compensation Limit (for 2025, \$155,081 for those participating in Social Security; increased by the CPI-U in subsequent years).

Service:

Service is computed from the date in which the Participant becomes a full or part-time employee and remains in continuous employment to the date employment ceases.

Service includes time with the District or predecessor companies immediately prior to April 1, 1979 and subsequent to hire. Service is measured in continuous fractions of a year.

**2. Participation**

Eligibility:

Any person employed by the District who is a member of ATU Local 256 is eligible to participate in the Plan.

Any member joining the Plan for the first time on or after January 1, 2016 is a New Member and will follow PEPRA provisions. Employees who transfer from and are eligible for reciprocity with another public employer will not be New Members if the service in the reciprocal system was under a pre-PEPRA plan.

**3. Retirement Benefit**

Eligibility:

Participants hired prior to January 1, 2016 are eligible for normal service retirement upon attaining age 55 and completing 10 or more years of service. In addition, members are eligible to retire upon reaching 25 years of service.

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**APPENDIX C – SUMMARY OF PLAN PROVISIONS**

PEPRA members are eligible upon attaining age 52 and completing five or more years of service.

**Benefit Amount:** The normal service retirement benefit is the greater of the benefit accrued under the plan provisions in effect on February 28, 1993 or the Participant's benefit under the current plan provisions. Under the current plan provision, the member would receive a percentage of the Participant's Average Final Monthly Earnings multiplied by the Participant's service at retirement.

For retirements and terminations prior to March 1, 2004, the percentage is equal to:

- 2.0%, if the member retires prior to age 65, and
- 2.5%, if the member retires at age 65 or later.

For retirements and terminations on and after March 1, 2004, the percentage is equal to:

- 2.0%, if the member retires at age 55 or with 25 years of service,
- 2.1%, if the member retires at age 56 or with 26 years of service,
- 2.2%, if the member retires at age 57 or with 27 years of service,
- 2.3%, if the member retires at age 58 or with 28 years of service,
- 2.4%, if the member retires at age 59 or with 29 years of service, and
- 2.5%, if the member retires at age 60 or later or with 30 years or more years of service.

For PEPRA members, the benefit multiplier will be 1% at age 52, increasing by 0.1% for each year of age to 2.5% at 67. In between exact ages, the multiplier will increase by 0.025% for each quarter year increase in age.

**Form of Benefit:** The benefit begins at retirement and continues for the Participant's life with no cost-of-living adjustments. A Participant may elect to receive reduced benefits in the form of a contingent annuity with 50% or 100% continuing to a beneficiary after death, or in the form of an increased benefit prior to receiving Social Security benefits, and a reduced benefit thereafter.

## APPENDIX C – SUMMARY OF PLAN PROVISIONS

### 4. Disability Benefit

**Eligibility:** A Participant is eligible for a disability benefit, if the Participant is unable to perform the duties of his or her job with the District, cannot be transferred to another job with the District, and has submitted satisfactory medical evidence of permanent disqualification from his or her job. 10 years of service is required to qualify for disability. For PEPRA members, only five years of service is needed.

**Benefit Amount:** The benefit payable to a disabled Participant is equal to the Normal Retirement Benefit earned to the date of disability.

**Form of Benefit:** The benefit begins at disability and continues until recovery or for the Participant's life with no cost-of-living adjustments. A Participant may elect to receive reduced benefits in the form of a contingent annuity with 50% or 100% continuing to a beneficiary after death, or in the form of an increased benefit prior to receiving Social Security benefits, and a reduced benefit thereafter.

### 5. Pre-Retirement Death Benefit

**Eligibility:** A Participant's surviving spouse or Domestic Partner is eligible for a pre-retirement death benefit, if the Participant has completed 10 years of service with the District. A PEPRA Participant's surviving spouse or Domestic Partner is eligible for a pre-retirement death benefit if the Participant has completed five years of service with the District.

**Benefit Amount:** The pre-retirement death benefit is the actuarial equivalent of the Normal Retirement Benefit, as if the member retired on the day before his/her death. If the member is not eligible to retire on the day before his/her death, but is vested in his/her benefit, the benefit shall be calculated using a 1% multiplier for PEPRA members and 2% for all other members.

**Form of Benefit:** The death benefit begins when the Participant dies and continues for the life of the surviving spouse or Domestic Partner. No optional form of benefit may be elected. No cost-of-living increases are payable.

### 6. Termination Benefit

**Eligibility:** Participants hired before January 1, 2016 are eligible for a termination benefit after earning 10 years of service.

PEPRA members are eligible for a termination benefit after earning five years of service.

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**APPENDIX C – SUMMARY OF PLAN PROVISIONS**

**Benefit Amount:** The benefit payable to a vested terminated Participant is equal to the Normal Retirement Benefit, based on the provisions of the Plan in effect on the date the Participant terminated employment.

PEPRA members are eligible after earning five years of service for the full Normal Retirement Benefit earned on the date of termination, based on the service and Average Final Monthly Earnings accrued by the Participant at that point, and using the factor based on the age at which the benefit commences.

**Form of Benefit:** The termination benefit begins at retirement and continues for the Participant's life with no cost of living adjustments. A Participant may elect to receive reduced benefits in the form of a contingent annuity with 50% or 100% continuing to a beneficiary after death, or in the form of an increased benefit prior to receiving Social Security benefits, and a reduced benefit thereafter.

**7. Withdrawal Benefit**

**Eligibility:** Non-Classic members who are not eligible for a termination benefit upon termination.

**Benefit Amount:** The withdrawal benefit is a refund of the Participant's accumulated contributions with interest

**Form of Benefit:** The withdrawal benefit is paid in a lump sum upon election by the Participant.

**8. Reciprocity Benefit**

**Eligibility:** A Participant who transfers from this Plan to the RT Salaried Plan, and who is vested under this Plan, is eligible for a retirement benefit from this Plan.

**Benefit Amount:** The benefit payable to a vested transferred Participant is equal to the Normal Retirement Benefit based on service earned under this Plan to the date of transfer and based on Average Final Earnings computed under this Plan and the Salaried Plan together, as if the plans were a single plan. For ATU members who transfer on or after August 30, 2011, the multiplier payable by the ATU Plan will be limited to the multiplier applicable at the date of transfer.

**Form of Benefit:** The reciprocity benefit begins at retirement and continues for the Participant's life with no cost of living adjustments. A Participant may elect to receive reduced benefits in the form of a contingent annuity with 50% or 100% continuing to a beneficiary after death, or in the

**RETIREMENT PLAN FOR SACRAMENTO REGIONAL TRANSIT DISTRICT EMPLOYEES:  
ATU PLAN ACTUARIAL VALUATION REPORT AS OF JULY 1, 2024**

**APPENDIX C – SUMMARY OF PLAN PROVISIONS**

form of an increased benefit prior to receiving Social Security benefits, and a reduced benefit thereafter.

**9. Funding**

ATU members hired on or after January 1, 2015 but before January 1, 2016 will contribute 3% of Compensation to the Plan until the first payroll after the first valuation determining that the Plan is at least 100% funded, at which time member contributions will cease following the adoption by the Retirement Board.

PEPRA members hired on or after January 1, 2016 will contribute half of the PEPRA normal cost of the Plan rounded to the nearest 0.25%. Once established, contribution rate for New Members will be adjusted to reflect a change in the normal cost rate, but only if the normal cost rate changed by more than 1% of payroll. For the current year, the contribution rate for PEPRA members was 7.75% of payroll (1/2 of 15.47%, rounded to the nearest quarter). The normal cost rate for the PEPRA members as of the July 1, 2024 valuation is 15.28%, and since the decrease is less than 1%, the rate for the following fiscal year remains at 7.75%. The remaining cost of the Plan is paid by the District.

**10. Changes in Plan Provisions**

None.

## APPENDIX D– GLOSSARY

### 1. Actuarial Assumptions

Assumptions as to the occurrence of future events affecting pension costs such as mortality, withdrawal, disability, retirement, changes in compensation, and rates of investment return.

### 2. Actuarial Cost Method

A procedure for determining the actuarial present value of pension plan benefits and expenses and for developing an allocation of such value to each year of service, usually in the form of a normal cost and an Actuarial Liability.

### 3. Actuarial Gain (Loss)

The difference between actual experience and that expected based upon a set of actuarial Assumptions during the period between two actuarial valuation dates, as determined in accordance with a particular actuarial cost method.

### 4. Actuarial Liability

The portion of the actuarial present value of projected benefits that will not be paid by future normal costs. It represents the value of the past normal costs with interest to the valuation date.

### 5. Actuarial Present Value (Present Value)

The value as of a given date of a future amount or series of payments. The actuarial present value discounts the payments to the given date at the assumed investment return and includes the probability of the payment being made.

### 6. Actuarial Valuation

The determination, as of a specified date, of the normal cost, Actuarial Liability, Actuarial Value of Assets, and related actuarial present values for a pension plan.

### 7. Actuarial Value of Assets

The value of cash, investments, and other property belonging to a pension plan as used by the actuary for the purpose of an actuarial valuation. The purpose of an Actuarial Value of Assets is to smooth out fluctuations in market values.

### 8. Actuarially Equivalent

Of equal actuarial present value, determined as of a given date, with each value based on the same set of actuarial assumptions.

## APPENDIX D– GLOSSARY

### 9. Amortization Payment

The portion of the pension plan contribution, which is designed to pay interest and principal on the Unfunded Actuarial Liability in order to pay for that liability in a given number of years.

### 10. Entry Age Normal Actuarial Cost Method

A method under which the actuarial present value of the projected benefits of each individual included in an actuarial valuation is allocated on a level basis over the earnings of the individual between entry age and assumed exit ages.

### 11. Funded Ratio

The ratio of the Actuarial Value of Assets to the Actuarial Liabilities.

### 12. Normal Cost

That portion of the actuarial present value of pension plan benefits and expenses that is allocated to a valuation year by the actuarial cost method.

### 13. Projected Benefits

Those pension plan benefit amounts which are expected to be paid in the future under a particular set of actuarial assumptions, taking into account such items as increases in future compensation and service credits.

### 14. Unfunded Actuarial Liability

The excess of the Actuarial Liability over the Actuarial Value of Assets. The Unfunded Actuarial Liability is not appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the Plan's benefit obligation in the event of a plan termination or other similar action. However, it is an appropriate measure for assessing the need for or the amount of future contributions.





*Classic Values, Innovative Advice*