

Sussex County Employee
Pension Plan and
Postemployment Benefits Plan

2025 Actuarial Valuations

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November 20, 2025



Agenda



- 2025 Pension Actuarial Valuation
 - Historical Review
 - Identification and Assessment of Risk
 - Valuation Results
 - Projections
- 2025 OPEB Actuarial Valuation
 - Historical Review
 - Valuation Results
 - Projections
- Appendix GASB 67/68/74/75

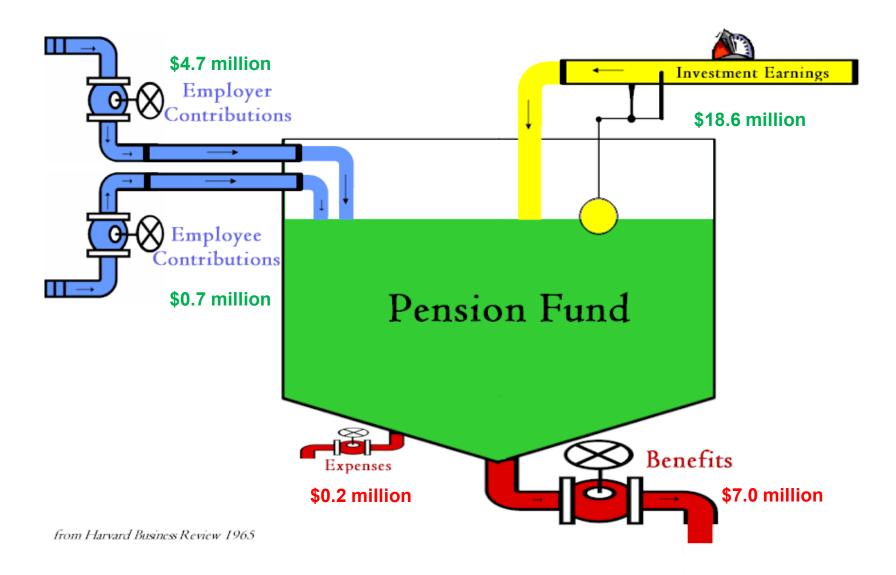




2025 Pension Actuarial Valuation

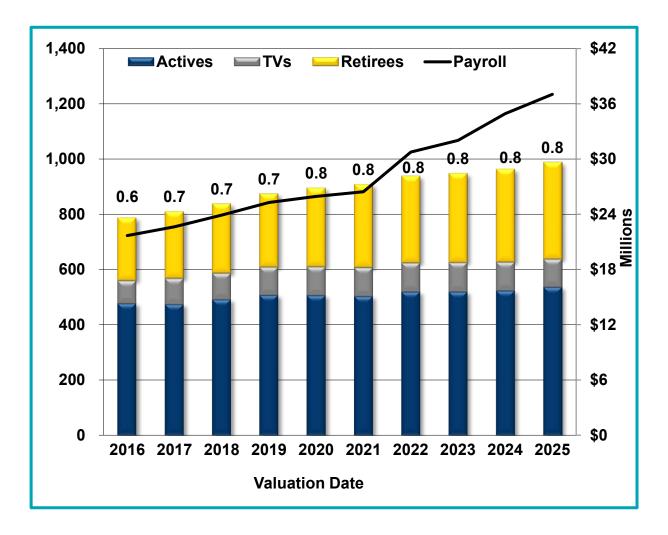


The Actuarial Valuation Process



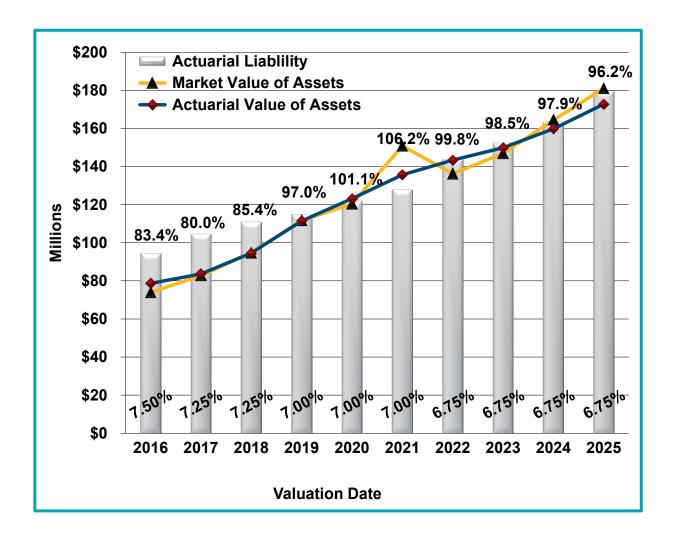


Historical Trends – Participation



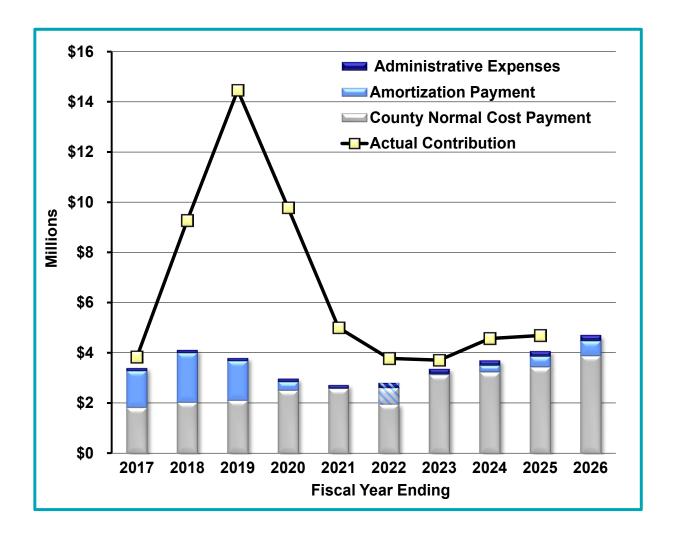


Historical Trends – Assets and Liabilities



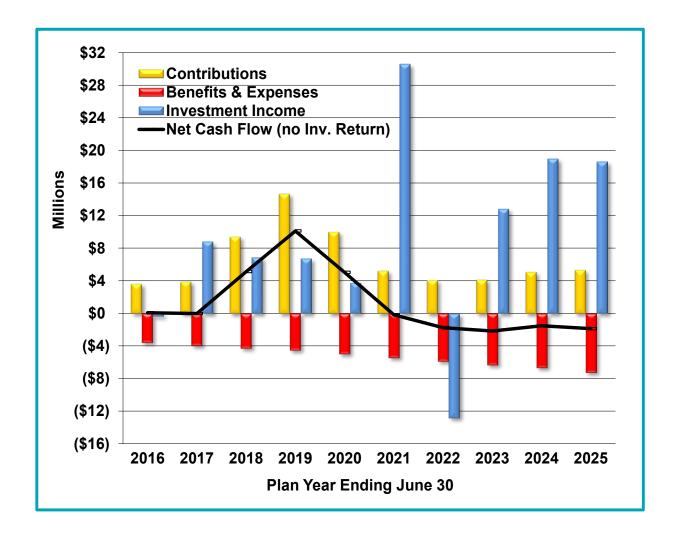


Historical Trends – Contributions





Historical Trends – Cash Flow





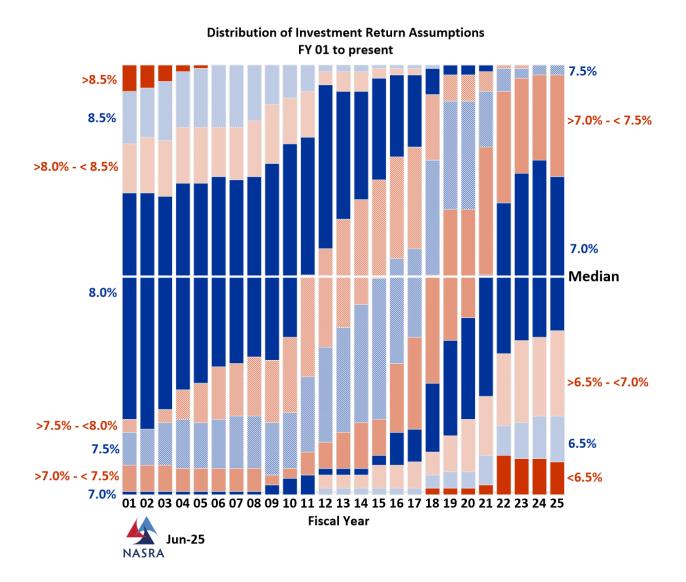


Identification and Assessment of Risk



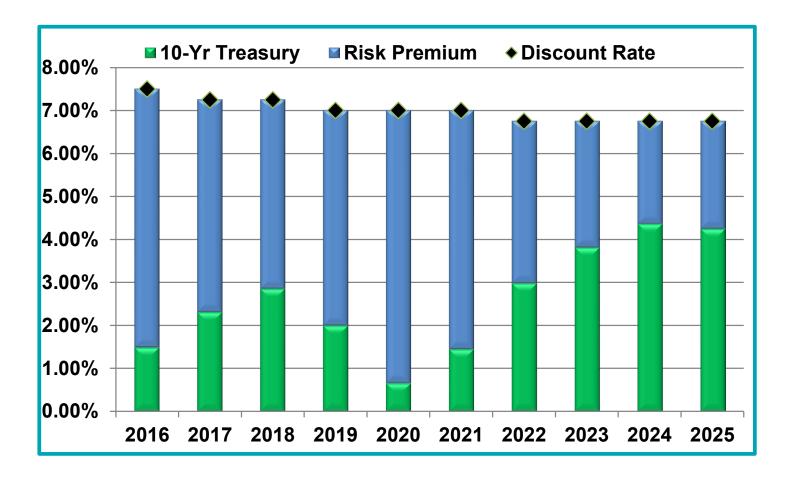
- Material risks identified:
 - Investment Risk the potential for investment returns to be different than expected
 - Interest Rate Risk the potential for interest rates to be different than expected
 - Longevity and other Demographic Risk the potential for mortality and other demographic experience to be different than expected
 - Assumption Change Risk the potential for the environment to change such that future valuation assumptions are different than the current assumptions

NASRA Investment Return Assumptions History



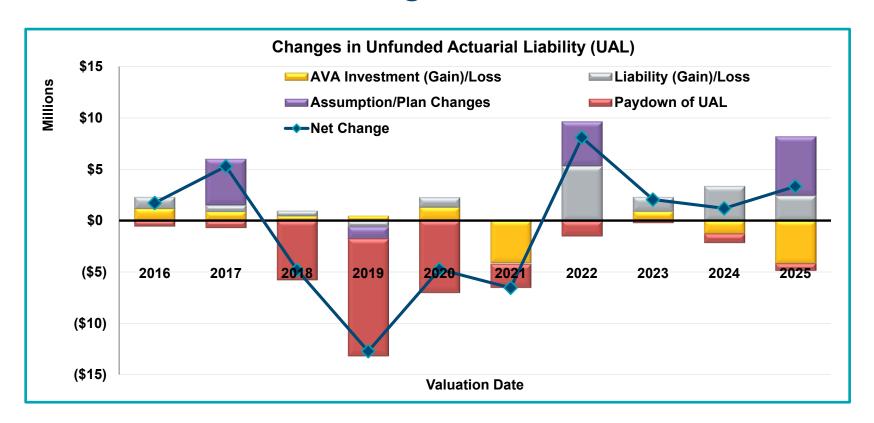


Interest Rate Risk





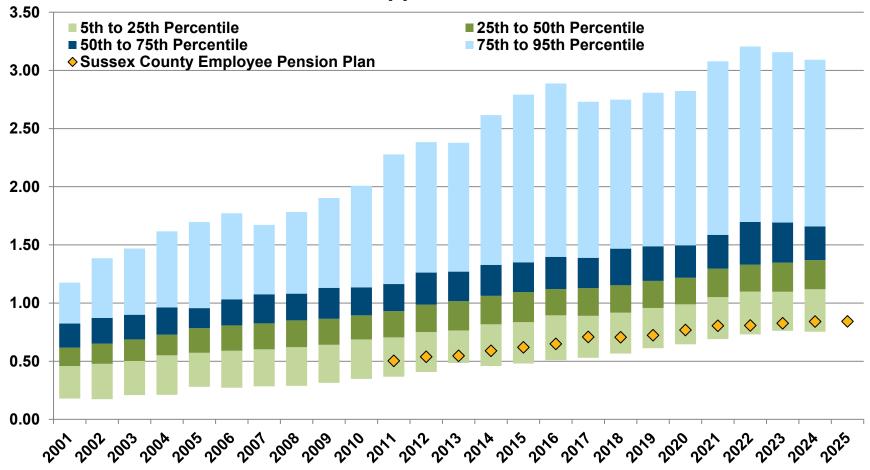
Material Risks – Changes in UAL





Plan Maturity Measures – Support Ratio

Support Ratio

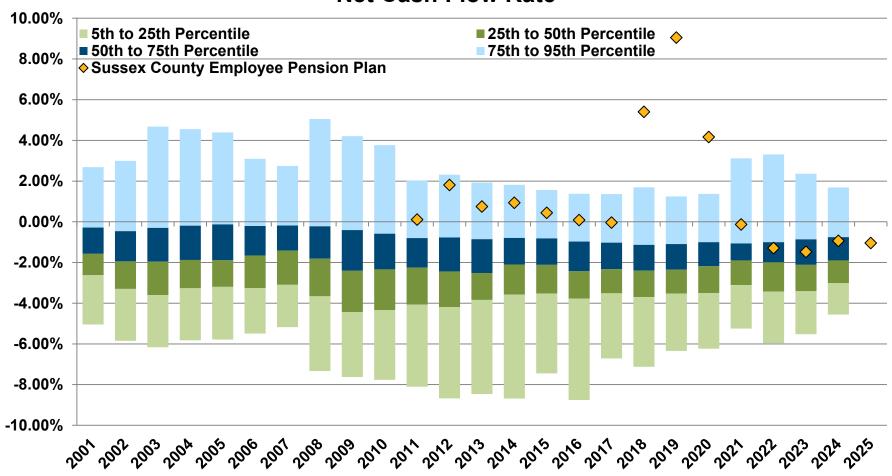






Plan Maturity Measures – Net Cash Flow

Net Cash Flow Rate





Survey Data from Public Plans Data as of 7/8/2025



2025 Valuation – Comments on Results



Contributions

- Actuarially Determined Contribution (ADC) increased from \$4.1 million to \$4.7 million
 - Primarily due to the assumption changes (shown on next slide)
- Unfunded actuarial liability (UAL) and funded status
 - UAL increased from \$3.5 million to \$6.8 million
 - Actuarial experience asset gain of \$4.2 million
 - 11.40% on market value (compared to 6.75% assumption)
 - 9.37% on actuarial value (assumes phase-in of 5-year asset smoothing)
 - Actuarial experience liability loss of \$2.5 million
 - Funded ratio (actuarial value of assets divided by actuarial liability) decreased from 97.9% to 96.2%



CHEIRON 2025 Valuation – Experience Study Recap



- Cheiron presented results on February 20, 2025
- County Council adopted recommended assumption changes on March 11, 2025, including
 - Mortality rates, retirement rates, termination rates, and salary increases
 - This increased the UAL by \$5.8 million and increased the ADC by \$1.1 million
- Amortization method changed
 - Initial UAL Base: 20-year closed period beginning July 1, 2025 (level dollar approach)
 - Subsequent Bases: Separate 20-year closed periods (level dollar) approach)
 - This decreased the ADC by \$0.3 million

2025 Valuation – Participants

Participant Information								
	7/1/2024	7/1/2025	Percent Change					
Number of Actives	523	536	2.5 %					
Total Salary	\$34,921,960	\$37,024,408	6.0 %					
Average Salary	\$66,772	\$69,075	3.5 %					
Number of In-Pay	336	351	4.5 %					
Total Benefits	\$6,716,210	\$7,165,839	6.7 %					
Average Benefits	\$19,989	\$20,415	2.1 %					
Number of Terminated Vested	104	101	-2.9 %					
Total Benefits	\$965,505	\$971,692	0.6 %					
Average Benefits	\$9,284	\$9,621	3.6 %					

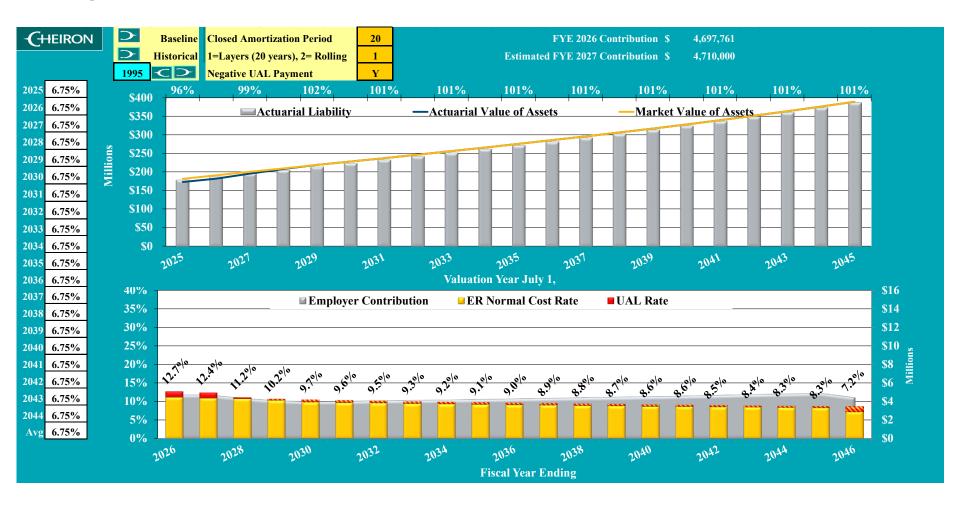


2025 Valuation – Principal Results

Principal Results							
	7/1/2024	7/1/2025					
Actuarial Liability (AL)	\$163,249,579	\$179,583,169					
Actuarial Values of Assets	159,767,302	172,767,923					
Unfunded AL (UAL)	\$3,482,277	\$6,815,246					
Actuarial Funded Ratio	97.9%	96.2%					
Market Value of Assets	\$164,392,505	\$181,139,931					
Market Funded Ratio	100.7%	100.9%					
FYE Contribution Applicable to	2025	2026					
Employer Normal Cost	\$3,430,743	\$3,887,506					
UAL Amortization Payment	429,621	590,974					
Administrative Expense	202,475	219,281					
Total County Contribution	\$4,062,839	\$4,697,761					
Contribution as a Percentage of Payroll	11.63%	12.69%					



Projected Outlook







Required Disclosures



The purpose of this presentation is to present the July 1, 2025 Actuarial Valuation results for the Sussex County Employee Pension Plan. Other users of this presentation are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to such other users.

In preparing this presentation, we relied on information, some oral and some written, supplied by the Sussex County staff. This information includes, but is not limited to, the plan provisions, member 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, Data Quality.

The analysis was based on financial data through June 30, 2025 and the July 1, 2025 membership data. The July 1, 2025 Actuarial Valuation Report should be referred to for a summary of the plan provision, methods and assumptions, and other disclosure information. Future results may differ significantly from this presentation 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.

The deterministic projections are based on our proprietary model P-Scan developed by our firm that utilize the results shown in the July 1, 2025 Actuarial Valuation Report. The projections assume continuation of the plan provisions and actuarial assumptions in effect as of July 1, 2025 and do not reflect the impact of any changes in benefits or actuarial assumptions that may be adopted after July 1, 2025 unless otherwise indicated. While the assumptions individually are reasonable for the underlying valuation that supports the projections, specifically for projection purposes, they are also considered reasonable in the aggregate. The future outcomes become increasingly uncertain over time, and therefore the general trends and not the absolute values should be considered in the review of these projections.

This presentation and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices and our understanding of the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board as well as applicable laws and regulations. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinion contained in this presentation. This presentation does not address any contractual or legal issues. We are not attorneys, and our firm does not provide any legal services or advice.

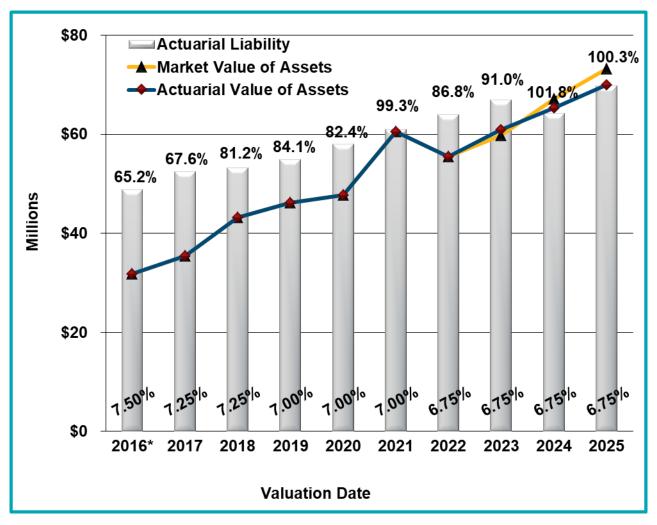
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2025 OPEB Actuarial Valuation



Historical Review – Assets and Liabilities

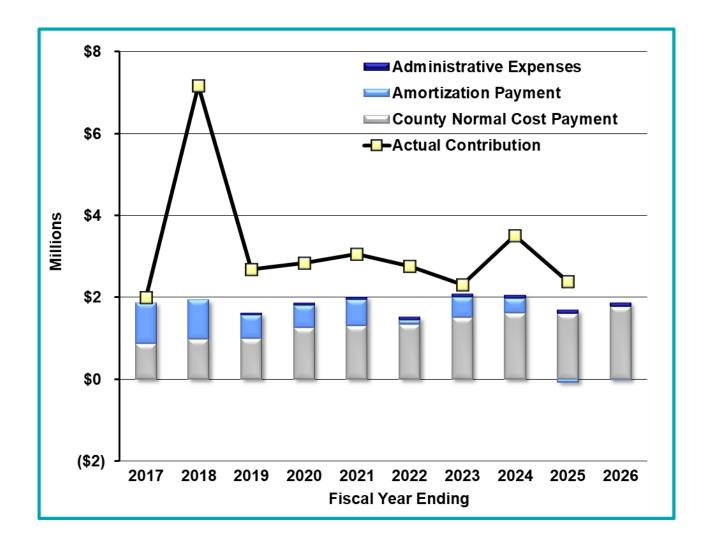


Funding ratio based on AVA Smoothed Method starting in 2023

^{*} Valuation date change to 6/30 from 12/31.



Historical Review – Contributions





2025 Valuation – Principal Results

Pri	incipal Results	
	7/1/2024	7/1/2025
Active Employees	517	537
Retirees	225	235
Disabled	9	9
Survivors	26	26
Total Participants	777	807
Actuarial Liability (AL)	\$ 64,168,398	\$ 69,725,322
Assets (AVA)	65,342,560	69,911,639
Unfunded AL (UAL)	\$ (1,174,162)	\$ (186,317)
Actuarial Funded Ratio	101.8%	100.3%
FYE Contribution Applicable to	2025	2026
Employer Normal Cost	\$ 1,583,828	\$ 1,750,090
UAL Amortization Payment	(68,239)	(16,156)
Interest	102,302	117,041
Total County Contribution	\$ 1,617,891	\$ 1,850,975
Contribution as a Percentage of Payroll	4.70%	5.01%
Covered Payroll	\$ 34,453,002	\$ 36,965,179



Actuarial Asset Smoothing – 4-years

Development of Actuarial	Val	ue of Assets (A	V	A)
Market Value of Assets at July 1, 2024			\$	67,091,654
Employer Contributions				2,382,678
Employee Contributions				0
Benefit Payments and Refunds				(3,728,828)
Administrative Expenses				(92,436)
Expected Return at 6.75%				4,480,927
Expected Value at July 1, 2025			\$	70,133,995
Actual Value of Assets at July 1, 2025			Φ	70,133,993
Investment Gain/(Loss)			\$	3,082,071
		Total		Excluded
	(Gain/(Loss)		Portion
Exclude 20% of 2022 Gain/(Loss)	\$	(9,430,393)	\$	(1,886,080)
Exclude 40% of 2023 Gain/(Loss)		1,330,162		532,065
Exclude 60% of 2024 Gain/(Loss)		3,654,641		2,192,785
Exclude 80% of 2025 Gain/(Loss)		3,082,071		<u>2,465,657</u>
Total Excluded Gain/(Loss) for AVA Calc	ula	tion	\$	3,304,427
Market Value of Assets at July 1, 2025				73,216,066
Total Gain/(Loss) Excluded				3,304,427
Actuarial Value of Assets at July 1, 2025			\$	69,911,639



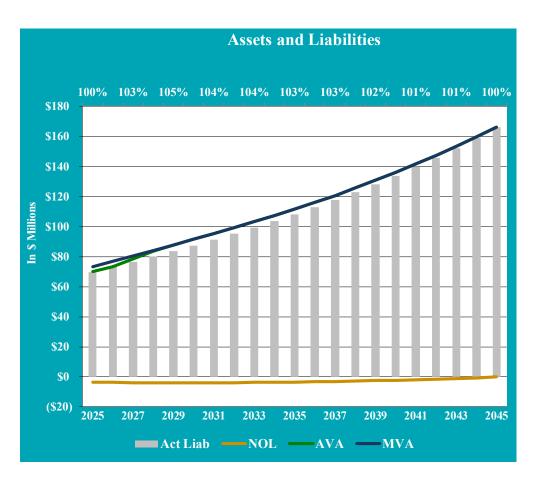
Projected Outlook – Baseline

Projection assumptions:

6.75% discount rate

ADC contributions

20 year layered amortization







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The purpose of this presentation is to present the July 1, 2025 OPEB valuation and GASB 74/75 results for the Sussex County Postemployment Benefit Plan. Other users of this presentation are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to such other users.

In preparing this presentation, we relied on information, some oral and some written, supplied by the Sussex County staff. This information includes, but is not limited to, the plan provisions, member 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, Data Quality.

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John Colberg, FSA, EA, MAAA Principal Consulting Actuary Gaelle Gravot, FSA, MAAA Principal Consulting Actuary

Ryan Benitez, ASA, MAAA Consulting Actuary

Appendix – GASB 67/68/74/75





GASB 67 – Pension Fund



- County first adopted GASB 67 in the June 30, 2014 financial statements
- Similar actuarial methods and assumptions used in developing the actuarial liability for funding purposes
- Assets will differ from funding since GASB requires using market value with no smoothing (funding uses 5-year smoothing)
- Discount rate for GASB 67 is 6.75% (same as funding)
 - Projections indicated that plan assets are expected to cover all future benefit payments for current plan members (if not, some blending with a municipal bond index (5.20% for 2025) would have been required)



GASB 68 – Pension Expense



- Under GASB 68, the pension expense is equal to the change in the plan's net pension liability (NPL), with adjustments for deferrals
 - Chart on next page shows the pension expense development two ways for both the 2025 and 2024 plan years
 - The County's FY 2025 expense will be based on the County's 2025 plan year results
- Treatment of deferrals
 - Asset gains or losses recognized over 5 years
 - Liability gains or losses and assumption changes recognized over average future working lifetime (6 years for the Plan)
 - No deferrals on plan changes
 - Deferred gains called "deferred inflows"; deferred losses called "deferred outflows"

GASB 67 - Results

Sensitivity of Net Pension Liability to Changes in Discount Rate						
		1% Decrease 5.75%		Discount Rate 6.75%		1% Increase 7.75%
Total Pension Liability Plan Fiduciary Net Position	\$	204,083,416 181,139,931	\$	179,583,169 181,139,931	\$	159,353,383 181,139,931
Net Pension Liability Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	\$	22,943,485 88.8%	\$	(1,556,762) 100.9%	\$	(21,786,548) 113.7%



GASB 68 – Results

Calculation of Pension Expense						
		Measurement Year Ending 2025 2024				
Change in Net Pension Liability	\$	(413,836)	\$	(6,427,115)		
Change in Deferred Outflows		(4,274,266)		2,179,075		
Change in Deferred Inflows		3,724,662		4,309,466		
Employer Contributions		4,688,420		4,568,242		
Pension Expense	\$	3,724,980	\$	4,629,668		
Pension Expense as % of Payroll		10.06%		13.26%		
Operating Expenses						
Service cost	\$	4,068,640	\$	3,756,517		
Employee contributions		(654,343)		(538,465)		
Administrative expenses		213,933		197,537		
Total	\$	3,628,230	\$	3,415,589		
Financing Expenses						
Interest cost	\$	11,061,058	\$	10,315,190		
Expected return on assets		(11,033,844)		(9,867,922)		
Total	\$	27,214	\$	447,268		
Changes						
Benefit changes	\$	0	\$	0		
Recognition of assumption changes		1,678,869		514,749		
Recognition of liability gains and losses		2,244,555		1,745,108		
Recognition of investment gains and losses		(3,853,888)		(1,493,046)		
Total	\$	69,536	\$	766,811		
Pension Expense	\$	3,724,980	\$	4,629,668		







- Similar actuarial methods and assumptions used in developing the actuarial liability for funding purposes
- GASB 74/75 requires using market value of assets
- Discount rate for GASB 74 is 6.75%

Change in Net OPEB Liability							
	Increase (Decrease)						
		Total OPEB Liability (a)		lan Fiduciary Net Position (b)		Net OPEB Liability (a) - (b)	
Balances at 6/30/2024	\$	64,168,398	\$	67,091,654	\$	(2,923,256)	
Changes for the year:						,	
Service cost		1,501,603				1,501,603	
Interest		4,308,932				4,308,932	
Changes of benefits		0				0	
Differences between expected and	l	2,469,884				2,469,884	
Changes of assumptions		1,005,333				1,005,333	
Contributions - employer				2,382,678		(2,382,678)	
Contributions - member				-		0	
Net investment income				7,562,998		(7,562,998)	
Benefit payments		(3,728,828)		(3,728,828)		0	
Administrative expense				(92,436)		92,436	
Net changes		5,556,924		6,124,412		(567,488)	
Balances at 6/30/2025	\$	69,725,322	\$	73,216,066	\$	(3,490,744)	

GASB 75 – 2025 OPEB Expense

Calculation of OPEB Expense						
		FYE 2025				
Change in Net OPEB Liability	\$	(567,488)	\$	(10,142,499)		
Change in Deferred Outflows		(2,262,267)		589,878		
Change in Deferred Inflows		51,703		6,721,617		
Employer Contributions		2,382,678	_	3,504,709		
OPEB Expense	\$	(395,374)	\$	673,705		
OPEB Expense as % of Payroll		-1.07%		1.96%		
Operating Expenses						
Service cost	\$	1,501,603	\$	1,510,151		
Employee contributions		-		-		
Administrative expenses		92,436		85,629		
Total	\$	1,594,039	\$	1,595,780		
Financing Expenses						
Interest cost	\$	4,308,932	\$	4,496,461		
Expected return on assets		(4,480,927)	_	(4,020,737)		
Total	\$	(171,995)	\$	475,724		
Changes						
Benefit changes	\$	0	\$	0		
Recognition of assumption changes		(1,281,613)		(1,425,238)		
Recognition of liability gains and losses		1,018,435		665,597		
Recognition of investment gains and losses		(1,554,240)		(638,158)		
Total	\$	(1,817,418)	\$	(1,397,799)		
OPEB Expense	\$	(395,374)	\$	673,705		







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