

### **Michigan State Police**

## Retiree Health Actuarial Valuation Results as of September 30, 2019

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### Retiree Health Benefits The Funding Issue

- Unlike pensions, health benefits have not been pre-funded for a long period of time
  - Most public plan sponsors nationwide have not pre-funded health benefits either
- Costs rise as more members retire, and health inflation outpaces general inflation
- Pre-funding contributions have been calculated since 1999 – but pre-funding started in Fiscal Year (FY) 2013



### September 30, 2019 Valuation

- Purpose of the September 30, 2019 valuation is twofold:
  - Determines the actuarially computed employer contribution for FY 2022
  - Measures the retiree health plan's funding progress
- Reflects investment return assumption remaining at 6.90% as the market rate of return for FY 2019 was too low to trigger the provisions of the Dedicated Gains Policy adopted by the Board of Trustees



### September 30, 2019 Valuation

- Reflects these provisions of Public Act 674 of 2018
  - Gradual transition from level percent of payroll amortization of Unfunded Actuarial Accrued Liabilities (UAAL) to level dollar amortization
  - 2.25% payroll growth assumption used for the September 30, 2019 valuation for amortization purposes only
- Employer contributions included in this presentation do not incorporate the "contribution floor" provisions of Public Act 674 of 2018



### FY 2019 – Expenditures vs. Contributions

- FY 2019 expenditures for employer paid retiree health care benefits:
  - \$30.0 million
    - Excludes retiree paid premiums
    - Excludes \$5.2 million in other governmental contributions
- FY 2019 contributions for retiree health care Benefits:
  - \$60.4 million
    - Excludes \$5.2 million in other governmental contributions

Amounts reported above are from the 2019 SPRS financial statements.



### Actuarially Computed Employer Contribution FY 2022 (\$ in Millions)

• Actuarially Computed employer contribution for FYE September 30, 2022:

	FY 2022		
Employer Normal Cost	\$	10.0	
Amortization of UAAL <sup>1</sup>		42.1	
Employer Contribution	\$	52.1	

<sup>1</sup>Unfunded Actuarial Accrued Liabilities (UAAL) were amortized over 17 years from October 1, 2021.

• Once fully funded, the annual employer contribution requirement decreases to the normal cost



## Actuarial Gain/(Loss) (\$ in Millions)

#### Gain/(Loss)

1. Premiums. Gains and losses resulting from	
actual premiums in valuation year versus	
that assumed from prior valuation.	\$ 86.3
2. Investment Income. If there is greater	
investment income than assumed, there is a	
gain. If less income, a loss.	(0.7)
3. Demographic and Other. Gains and losses	
resulting from demographic experience,	
data adjustments, timing of financial	
transactions, etc.	 9.5
4. Composite Gain/(Loss) During Year.	\$ 95.1



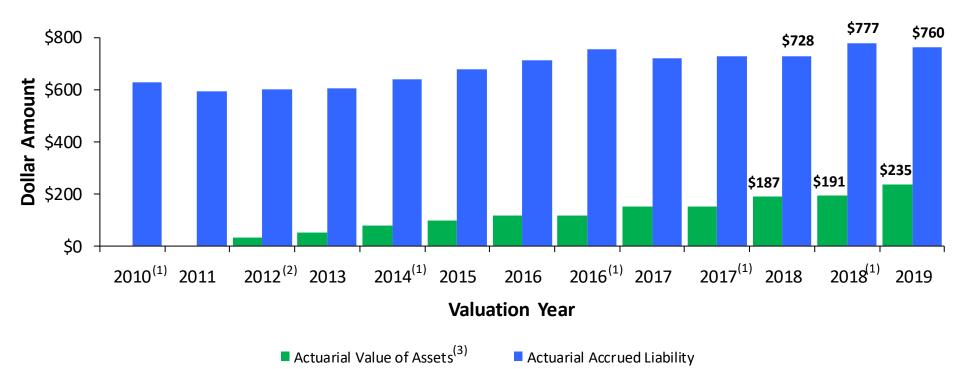
### Circumstances That Would Increase Projected Costs

- Medicare funding reductions or cost shifting
- Unexpected new benefit recipients (from health benefit cutbacks of other employers)
- Medical inflation worse than assumed; the actual future contributions will depend on future per capita health cost increases (health inflation) \*
- Lower than expected investment returns; bigger impact as plan assets grow
- This is not a complete list

<sup>\*</sup> Per capita costs are projected to increase 7.50% the first year, graded down to 3.50% in the fifteenth year.



### Health Assets & Accrued Liabilities Full Actuarial Funding (\$ in Millions)

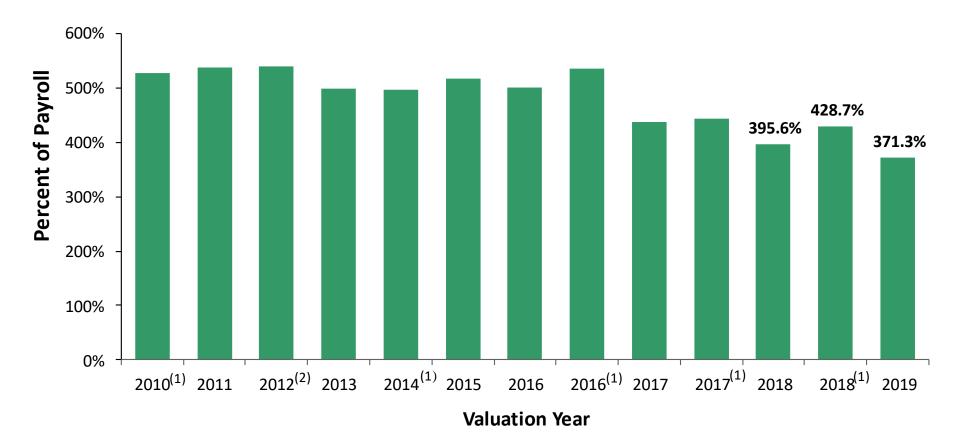


- (2) Revised benefit provisions
- (3) Actuarial value of assets were equal to the market value of assets prior to 2018



<sup>(1)</sup> Reflects assumption changes

### Unfunded Accrued Liabilities as %'s of Payroll Full Actuarial Funding

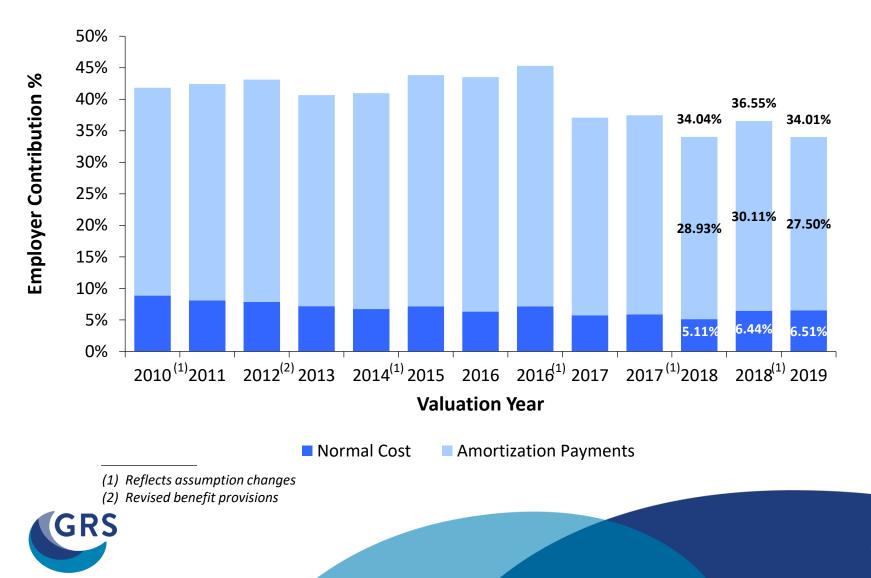


(1) Reflects assumption changes

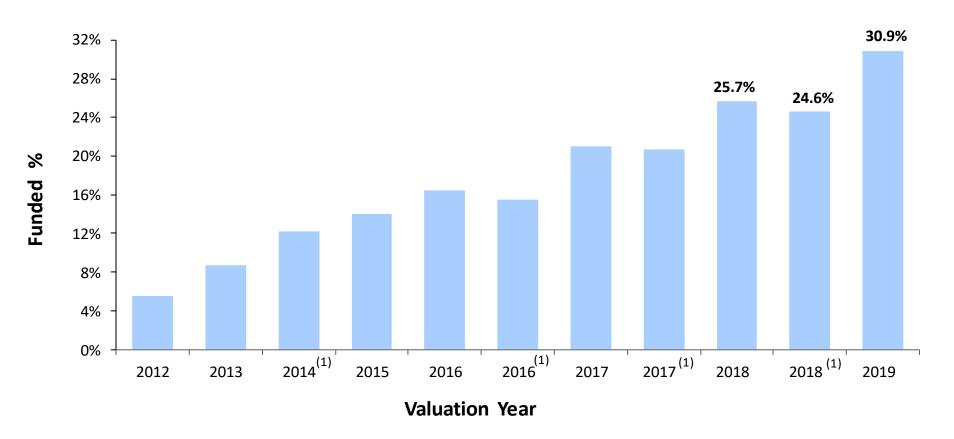
(2) Revised benefit provisions



# Required Employer Contributions as Percents of Payroll (Full Actuarial Funding)



### **Funded Percent**



<sup>(1)</sup> Reflects assumption changes

<sup>(2)</sup> Revised benefit provisions



### Disclaimers

- This presentation is intended to be used in conjunction with the September 30, 2019 retiree health annual actuarial valuation report. This presentation should not be relied on for any purpose other than the purpose described in the valuation report.
- This presentation shall not be construed to provide tax advice, legal advice or investment advice.
- The actuaries submitting this presentation (Mita Drazilov and Louise Gates) are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

