

## Michigan Judges' Retirement System

Pension Actuarial Valuation Results as of September 30, 2020

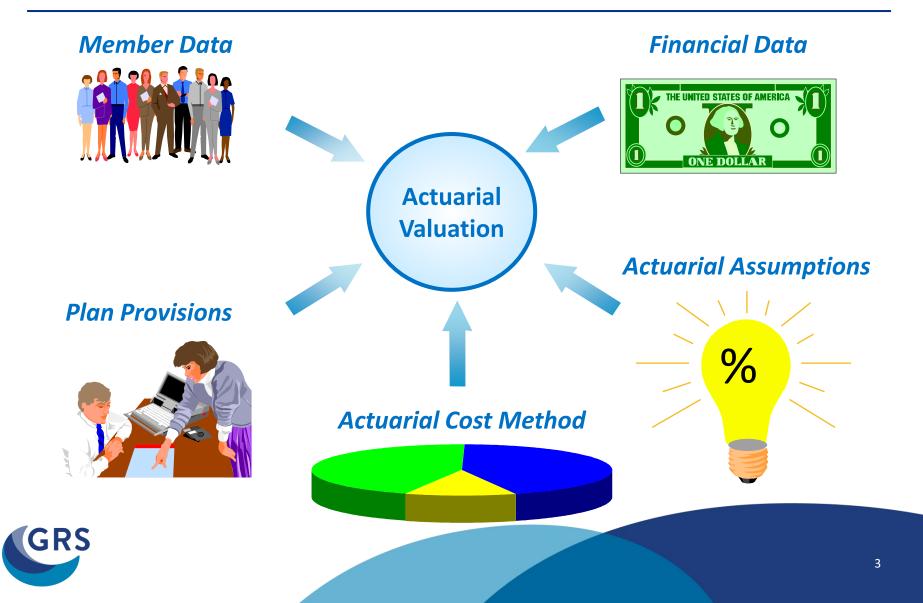
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#### September 30, 2020 Valuation

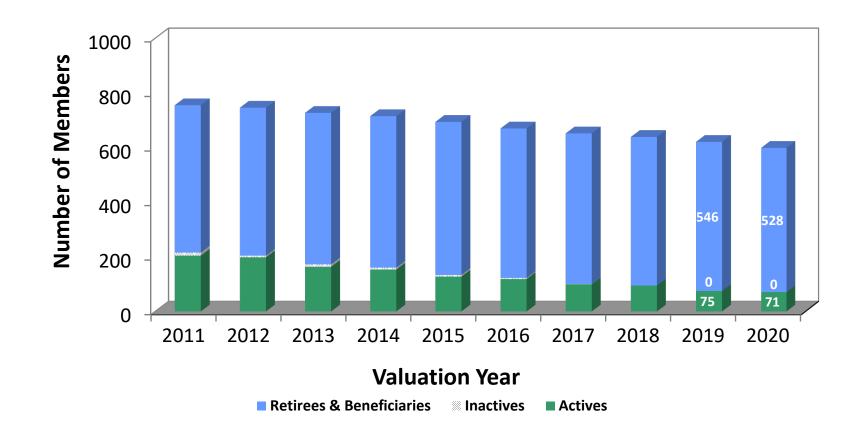
- Purpose of the September 30, 2020 valuation is twofold:
  - Determine the employer contribution for fiscal year 2021
  - Measure the System's funding progress
- Reflects the Dedicated Gains Policy adopted by the Board of Trustees
  - The investment return assumption remained 6.25% as a result of the Policy
  - Market rate of return on assets for FY 2020 too low to trigger the provisions of the Dedicated Gains Policy



#### **Actuarial Valuation Process**



#### Membership Data

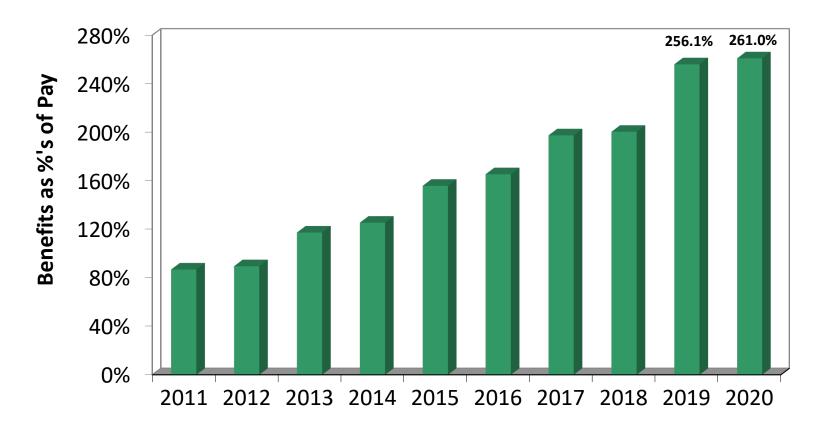




#### Ratio of Active Members to Pension Benefit Recipients



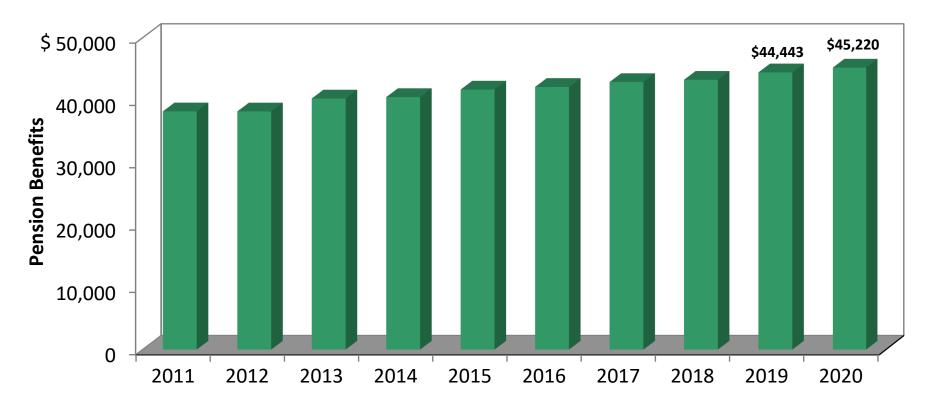
#### Pension Benefits Expressed as Percents of Active Member Pay



**Valuation Year** 



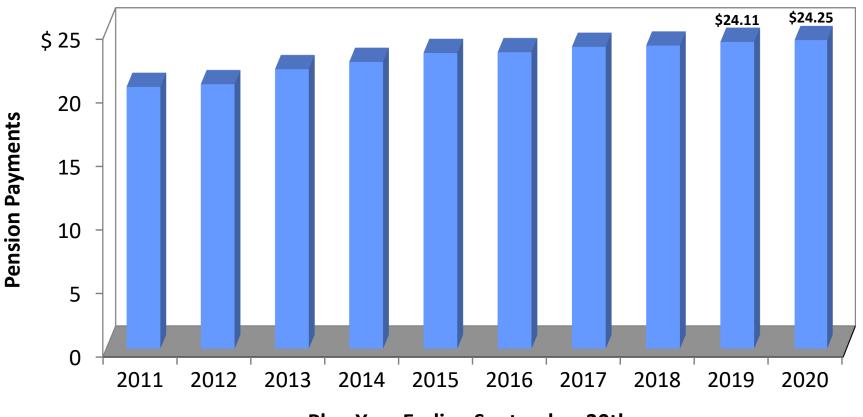
#### **Average Annual Pensions**



**Valuation Year** 



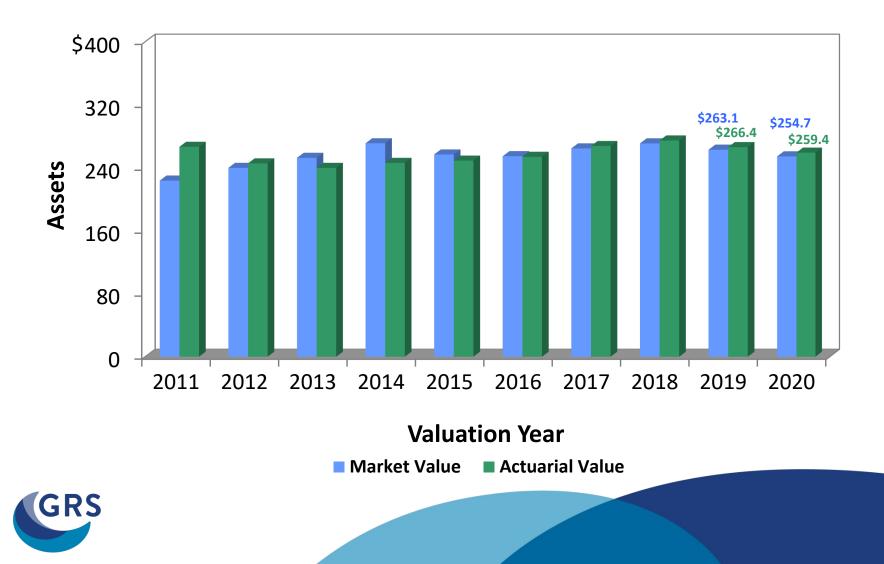
#### Reported Pension Payments by Plan Year (Amounts in Millions)



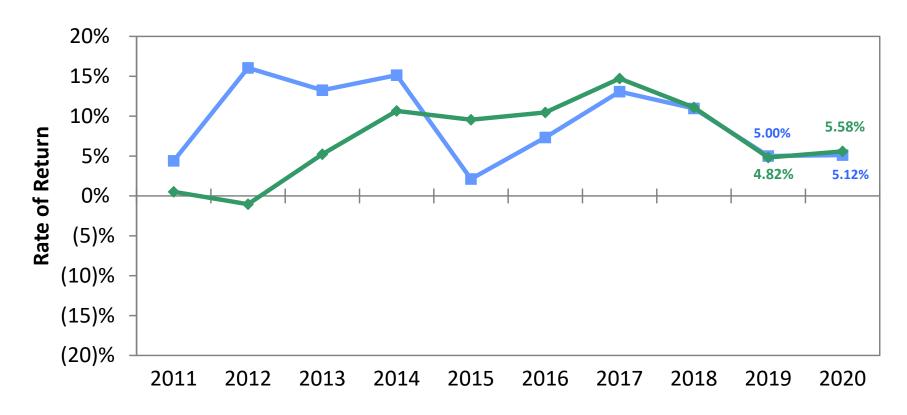
Plan Year Ending September 30th



#### Growth of Pension Assets (Amounts in Millions)



#### Market & Actuarial Net Rates of Return

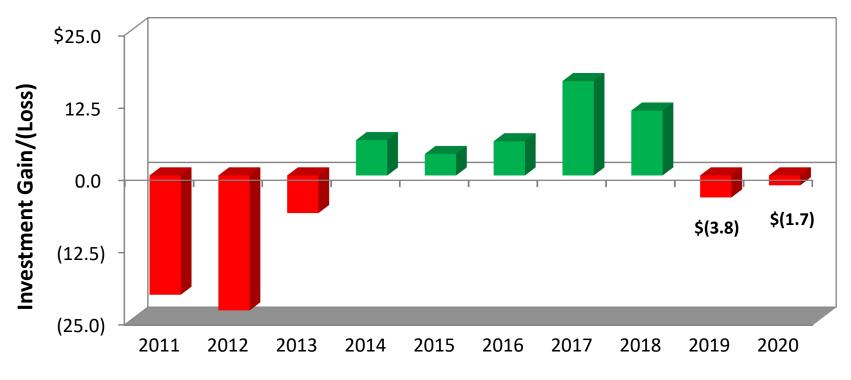


**Plan Year Ending September 30th** 

----Market -----Actuarial



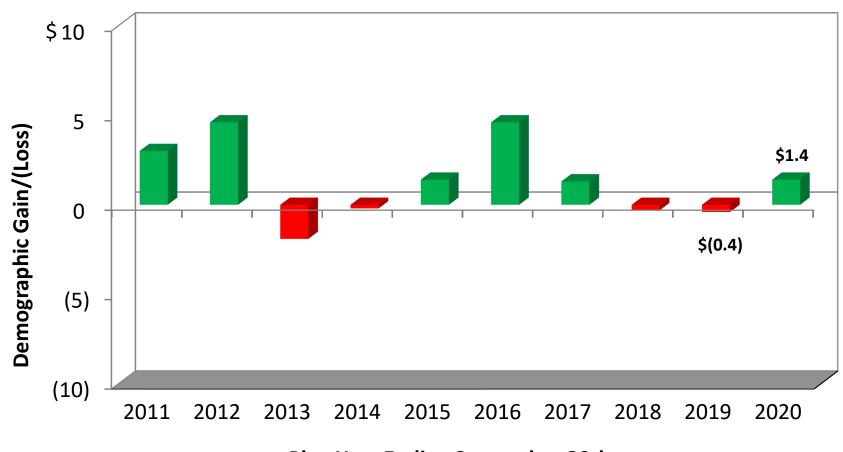
#### Investment Gain/Loss (Amounts in Millions)



**Plan Year Ending September 30th** 



#### Demographic Gain/Loss (Amounts in Millions)



Plan Year Ending September 30th

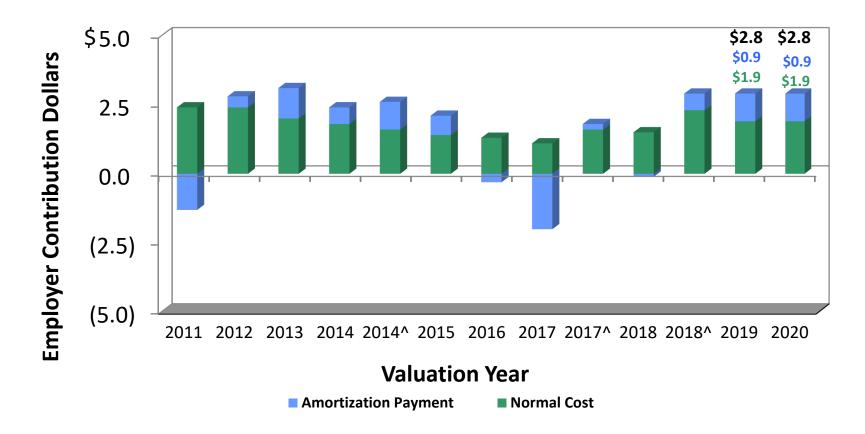


#### Gain/(Loss) by Type of Activity (Amounts in Millions)

Plan Year					
Ending 9/30	2020	2019	2018	2017	2016
New Entrants	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Retiree Deaths	(0.73)	(0.72)	(1.61)	0.28	2.36
Investments	(1.71)	(3.77)	11.17	16.34	5.92
Pay Increases	0.24	0.47	0.02	1.04	1.68
Withdrawals	0.00	0.00	0.04	0.05	0.06
Retirements	1.82	(0.30)	1.20	(0.58)	0.29
Other	0.04	0.17	0.08	0.55	0.16
Total	(0.34)	(4.15)	10.90	17.68	10.47



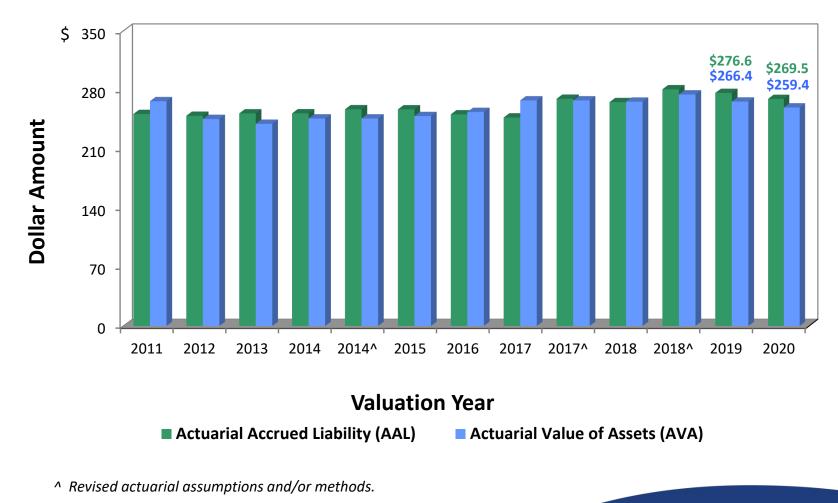
# Employer Contribution Dollars Valuation as of September 30<sup>th</sup> (Amounts in Millions)



^ Revised actuarial assumptions and/or methods.

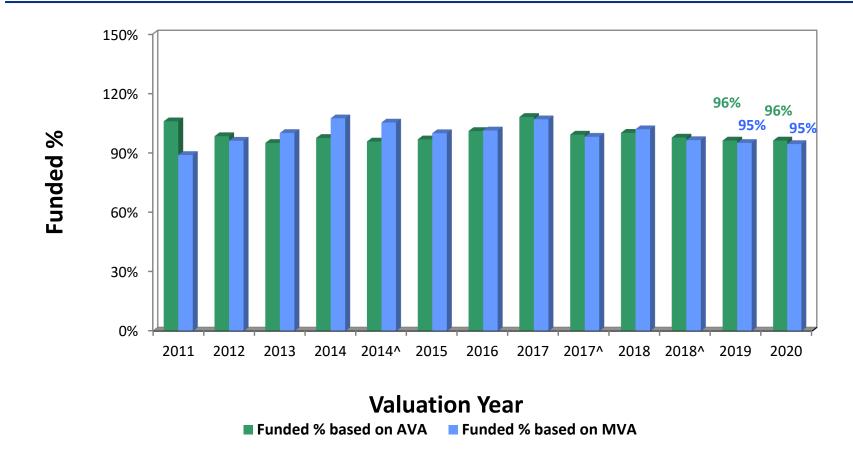


#### Actuarial Accrued Liability Compared to Actuarial Value of Assets (in Millions)





# Retirement System Funded % Based on Actuarial Value and Market Value of Assets



^ Revised actuarial assumptions and/or methods.



### Disclaimers

- This presentation is intended to be used in conjunction with the September 30, 2020 pension 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 and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

