# 2022 ANNUAL BUSINESS MEETING







BRYANT GLADNEY Boone Co. Fire Protection District



KEVIN CREMER CITY OF FESTUS Fire



MATTHEW DAVIS Iron County Sheriff's Dept.



Jake Reed City of Joplin Police



Scott Wood Randolph County Ambulance District



Benjamin Cooper City of Joplin Police

# 2022 ANNUAL BUSINESS MEETING





## **EMPLOYER TRUSTEE NOMINATIONS**



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## **MEMBER TRUSTEE NOMINATIONS**



# 2022 ANNUAL BUSINESS MEETING





# LAGERS' ASSET ALLOCATION PROCESS



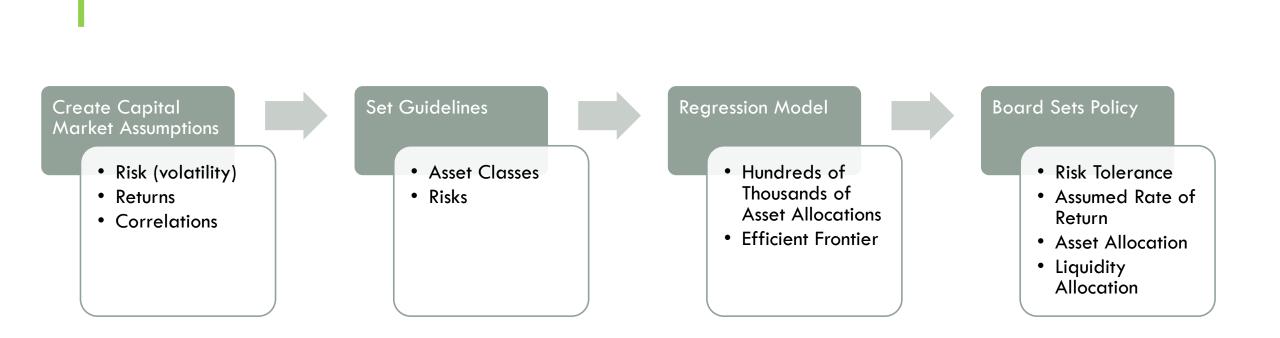
#### MISSOURI LAGERS ASSET STUDY PROCESS

#### LAGERS' Investment Team conducts an asset study a minimum of every 5 years

#### **Goals:**

- Set Risk Tolerance
- Set Asset Allocation
- Set Assumed Rate of Return



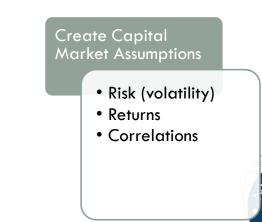


MISSOURI LAGERS ASSET STUDY PROCESS



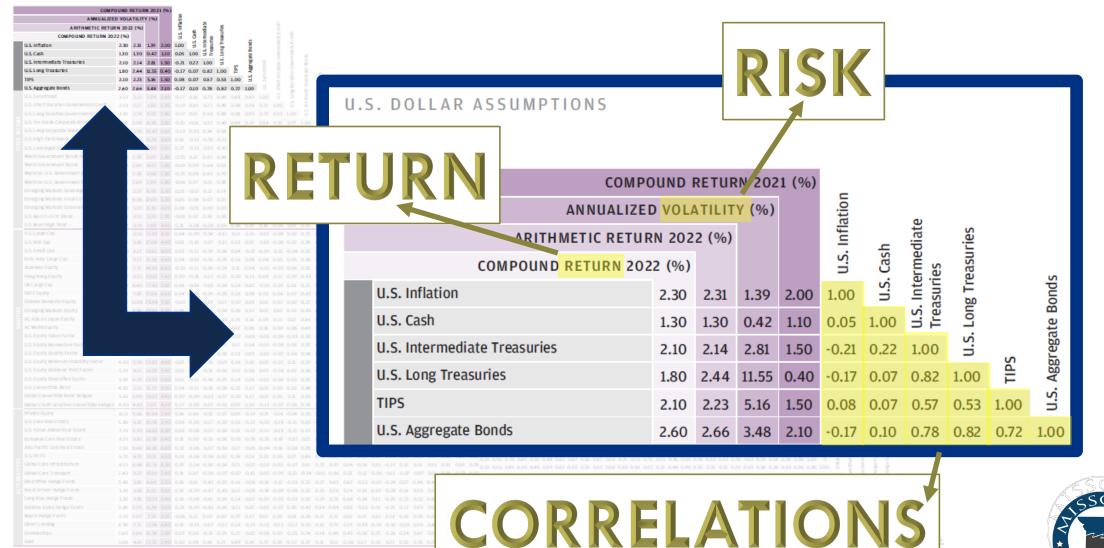
#### CREATE CAPITAL MARKET ASSUMPTIONS

- 1) Gather Capital Market Assumptions from Industry Participants
  - expected risk, return, and correlation over the next 10 years
- 2) Develop Own Capital Market Assumptions





#### CAPITAL MARKET ASSUMPTIONS EXAMPLE – JP MORGAN



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#### CREATE CAPITAL MARKET ASSUMPTIONS

- 1) Gather Capital Market Assumptions from Industry Participants
  - expected risk, return, and correlation over the next 10 years
- 2) <u>Develop LAGERS Capital Market Assumptions</u>



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	DEVEL	0P	LA	GE	RS (	CAPITAL N	ARKET ASSUMPTI	ONS	
AGER5 2018 0	Capital Market Assumptions		Global Equity -	Equity	Emerging	LAGERS 2018	Capital Market Assumptions	US Equity	Global Equity - ACWI
	Weights	US Equity	ACWI 5.00%	Equity - EAFE	Markets Equity 5.00%		Weights	10.00%	5.00%
Real Return Gross of Passive Fees 3.79% 4.45% 4.65% 5.87%   Nominal Return Gross of Passive Fees 6.13% 6.80% 7.00% 8.25%   Fee Assumptions 0.02% 0.04% 0.05% 0.10%			Real Return Gross of Passive Fees	3.79%	4.45%				
	Net of Passive Fees Volatility	6.11% 17.00%	6.76% 18.60%	6.95% 19.00%	8.15% 25.00%		ninal Return Gross of Passive Fees	6.13%	6.80%
	US Equity	1.000	0.760	0.680	0.640	NOI	inal Return Gross of Passive Fees	0.1570	0.0070
Equity	Global Equity - ACWI International Equity - EAFE	0.760 0.680	1.000 0.860	0.860	0.810		Fee Assumptions	0.02%	0.04%
	Emerging Markets Equity Private Equity	0.640 0.680	0.810	0.700	1.000 0.650				6.76%
					0.200		Net of Passive Fees	6.11%	0.70%
					-0.200		Volatility	17.00%	18.60%
					0.400		· · · · · · · · · · · · · · · · · · ·	27.0070	10.0070
					0.450				
					0.150			4 6 6 6	0 700
					0.250		US Equity	1.000	0.760
					0.430		Clabel Fundamentary	0.700	1 000
					0.380		Global Equity - ACWI	0.760	1.000
					0.000	Equity	International Faulty FAFF	0 690	0.960
					0.000		International Equity - EAFE	0.680	0.860
						<b>Correlations</b>	Emerging Markets Equity	0.640	0.810
							Emerging warkets Equity	0.040	0.010
							Private Equity	0.680	0.710



AGERS

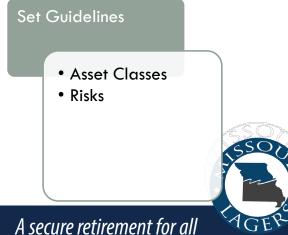
## SET GUIDELINES

#### 1) Asset Class Ranges:

Amount of each asset class LAGERS is willing to hold

#### 2) <u>Risk Ranges:</u>

- Amount of illiquidity LAGERS is willing to hold
- Amount of leverage LAGERS is willing to deploy
- Amount of cash LAGERS is willing to hold
- Guidelines for rising and falling growth risk as well as rising and falling inflation risk



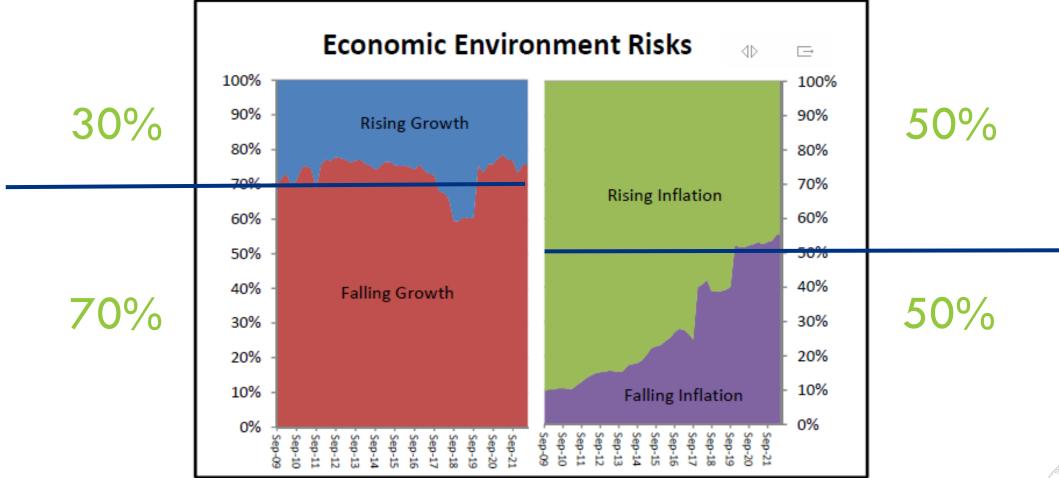
#### SET GUIDELINES – EQUITY EXAMPLE

Assets	Min	Max	Liquidity
Equity	35.00%	60.00%	Short-Term
US Equity	10.00%	14.00%	Short-Term
Global Equity	5.00%	9.00%	Short-Term
International Equity	5.00%	9.00%	Short-Term
Emerging Market Equity	5.00%	15.00%	Short-Term
Private Equity	5.00%	10.00%	Long-Term

Other Guidelines	Min	Max
Leverage	110.00%	135.00%
Cash	3.00%	10.50%
Long-Term Liquidity (>1 year)	0.00%	60.00%



#### SET GUIDELINES – RISKS





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#### ACTUARY RUNS REGRESSION ANALYSIS

#### 1) <u>Efficient Frontier</u>:

provides set of optimal portfolios that offer the highest expected return for a level of risk

2) <u>Creates hundreds of thousands of portfolios using the Capital Market</u> <u>Assumptions and Guidelines provided by LAGERS</u>



- Thousands of Asset Allocations
- Efficient Frontier

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## **BOARD SETS POLICY**

#### 1) <u>Set Target Risk:</u>

- 10% standard deviation
- 2) <u>Set Portfolio Allocation</u>:
  - Iook at portfolio allocations with 10% standard deviation
- 3) Set Assumed Rate of Return
  - 7% assumed rate of return over a full market cycle
- 4) <u>Set Liquidity Allocation</u>



ASSET	
ALLOCATION	

Asset Class	Target	Min	Max
Equity	35.0%	30.0%	40.0%
Fixed Income	31.0%	26.0%	36.0%
Real Assets	36.0%	31.0%	41.0%
Strategic Assets	8.0%	5.0%	15.0%
Alpha Portfolio	15.0%	10.0%	20.0%
Cash Portfolio	10.0%	See Note	
Leverage Portfolio	-35.0%	-20.0%	-40.0%

 $\ast$  LAGERS targets 28.5% of leveraged portfolio to be held in cash

Liquidity	Target	Min	Max
Short-Term (<1 week)	40.0%	35.0%	65.0%
Medium-Term (1 wk – 1 yr)	20.0%	0.0%	30.0%
Long-Term (>1 year)	40.0%	20.0%	50.0%

#### LIQUIDITY ALLOCATION



#### LAGERS ASSET ALLOCATION PROCESS

# **Questions?**



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# LAGERS FINANCIAL MANAGEMENT OVERVIEW



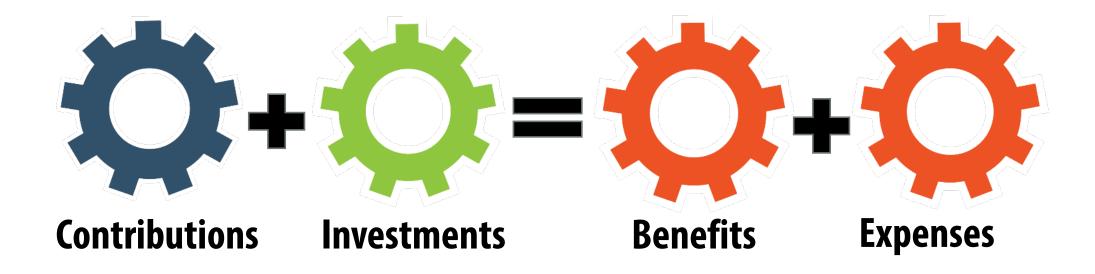
## LAGERS SOURCES OF FUNDING LAST FIVE YEARS

#### Investment Returns Employer Contributions Employee Contributions





# PENSION FUNDING FORMULA





## YOUR EMPLOYER PAYS ONLY FOR BENEFITS EARNED WITH YOUR EMPLOYER

#### **Rates Determined By**

- Benefits Chosen
- Economic & Demographic Experience at your Employer
- Economic Experience of LAGERS

Exceptions: Pooled Benefit Reserve Fund & Casualty Reserve Fund



# **ACTUARIAL ASSUMPTIONS**

# Used to calculate how much money is needed to fund future benefits

#### LAGERS' Board Sets Assumptions

- Reviewed Every 5 Years: Next Review 2025
- Updated if Needed



## **ACTUARIAL ASSUMPTIONS**

#### DEMOGRAPHIC

- Members that leave employment
- Disabilities for Members
- Retirements of Members
- Salary Increases for Members
- Mortality of Active Members & Retirees

#### ECONOMIC ·

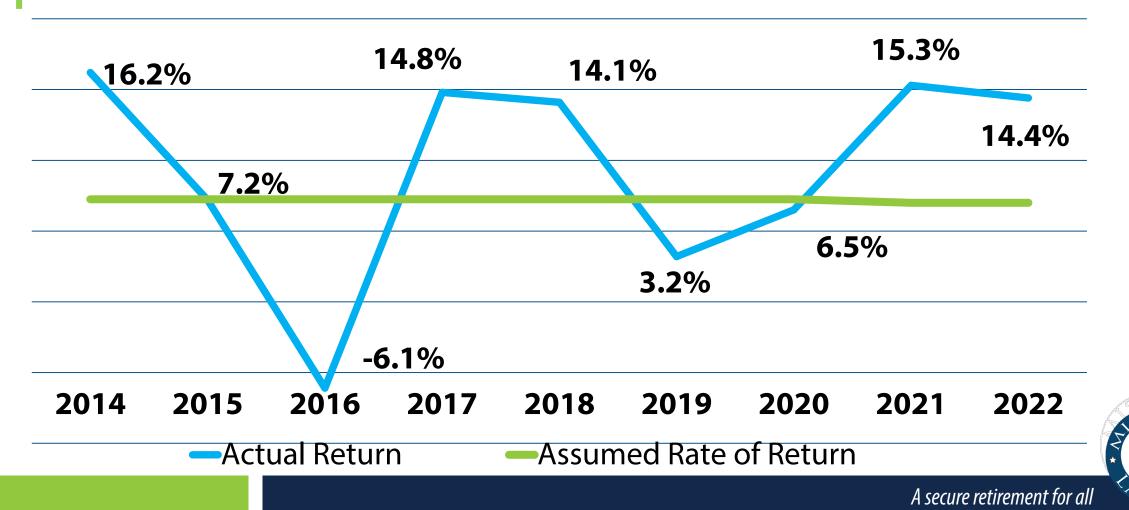
- Rate of Return: 7.00% Annually
- Price Inflation: 2.25% Annually
- Wage Inflation: 2.75% Annually
- Payroll Growth: 2.75% Annually



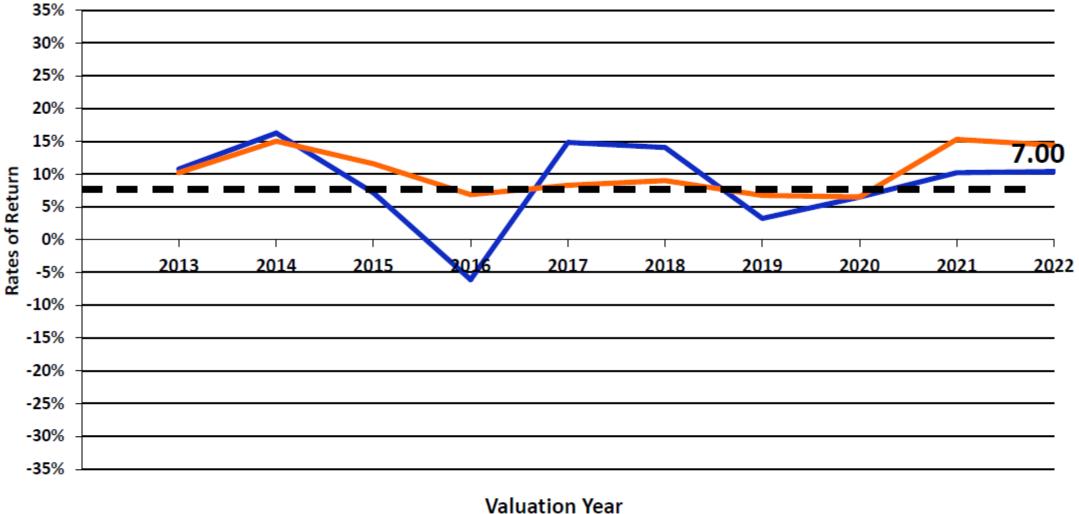
## **EXPERIENCE VS. ASSUMPTIONS**

Variance in One-Year Investment Results

As of the end of February



## LAGERS SMOOTHS GAINS & LOSSES



—Market Value Rate of Return



#### WHERE DOES THE MONEY GO? LAGERS Has 4 Main Accounts

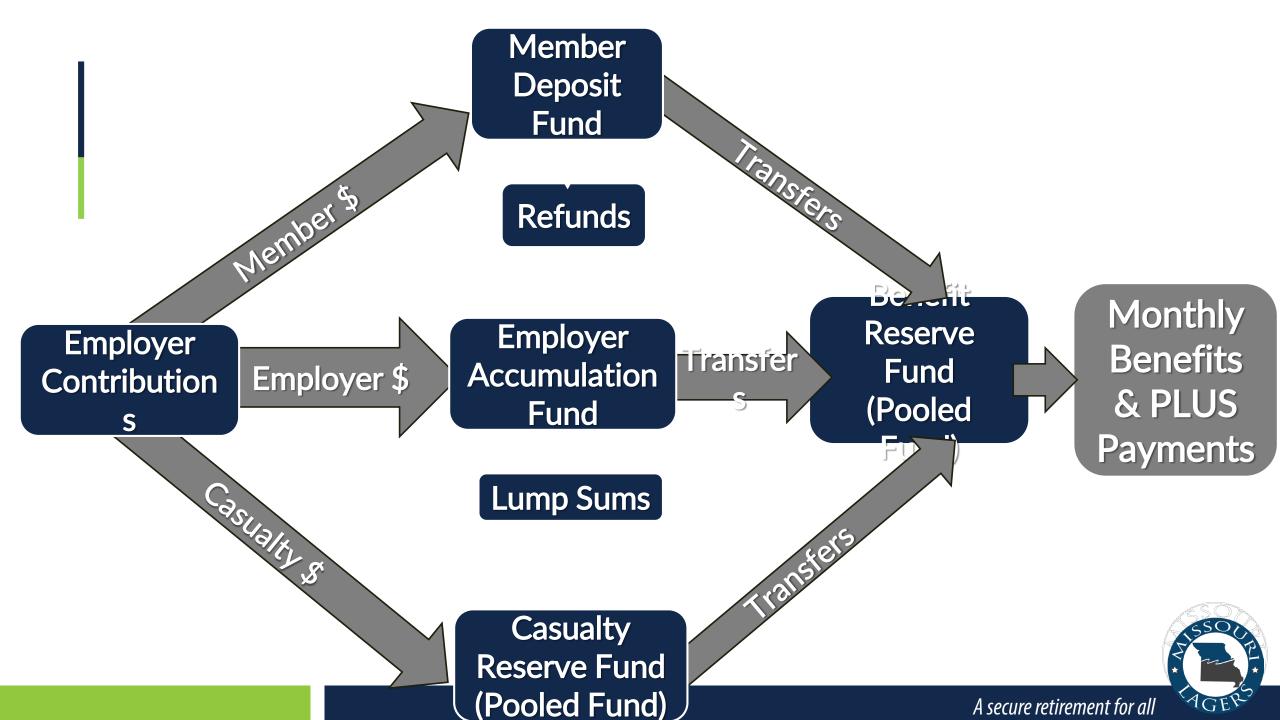
EmployerEmployee\$4.5 Billion\$190 Million

Benefits \$5.5 Billion

Casualty

\$26.8 Million





# WHERE DOES THE MONEY GO? REVENUES

Additions	June 30, 2022
<b>Employees' Contributions</b>	27.7 Million
<b>Employer Contributions</b>	280.8 Million
Investment Income	7.8 Million

# Total

**316.3 Million** 



## WHERE DOES THE MONEY GO? EXPENDITURES

Million
Million
Million
20,339)
63,750

Total

425.7 Million



## **2022 INTEREST CREDITS TO RESERVE ACCOUNTS**





## FUNDED STATUS OF RESERVE ACCOUNTS



# Benefits 119%

## Casualty

100%



# DOCUMENTATION YOU RECEIVE FROM LAGERS

#### **EMPLOYER COSTS**

- Annual Valuation in July
- Rate Notice Letters Two Months Prior To Rate Change

## **FINANCIAL REPORTING**

- GASB Statements & Reporting
- SOC-1 Type 2 Report

