# 2016 RATE MEETING

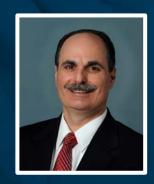
Presented by:







Louis W. Kosiba Executive Director



Mark Nannini Chief Financial Officer



# Agenda

- General Rate-Making Principles
- Annual Documentation
- 2015 Investment Income
- Points to Remember
- Appendix



#### **Each Employer:**

- > Pre-funds retirement benefits
- > Has a separate reserve account
- Pays a level percentage of payroll
- Has contributions pooled
- Has liabilities calculated based off the same actuarial assumptions

IMRF provides demographic and financial data to actuaries

Actuaries apply assumptions to demographics and financial data

Actuaries produce 12/31/15
Actuarial Valuation

Employer Contribution Rates are set for 2017



# Where does the money go?

IMRF assets are held in three "reserve accounts"

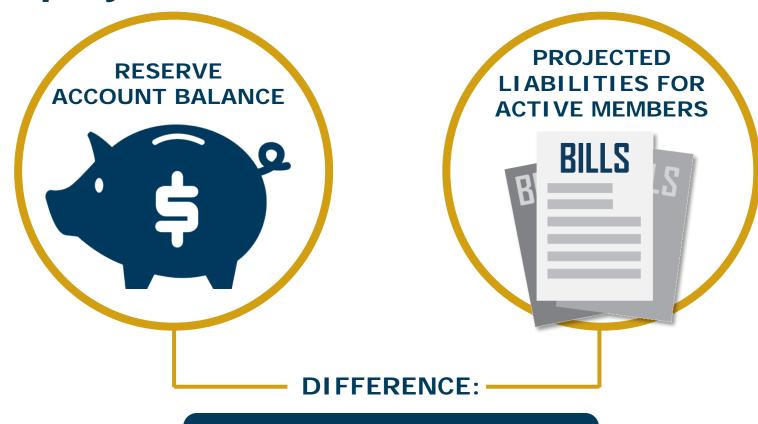
Members \$6.5 Billion 100% Funded

**Employers**\$8.5 Billion
(Balancing Account)

Retirees \$19.4 Billion 100% Funded



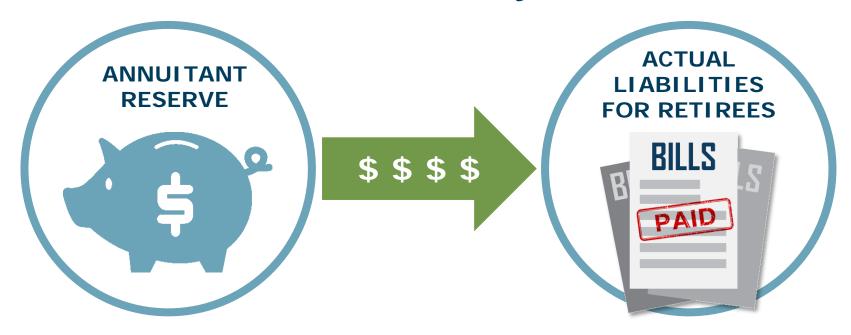
### **Employer Funded Status**



**EMPLOYER FUNDED STATUS** 



### **Annuitant Reserve is fully funded**



Liabilities for retirees are 100% funded

## **Economic Assumptions**

1. Price inflation: 2.75%

2. Wage inflation: 3.5%

3. Investment return: 7.5%

## **Non-economic Assumptions**

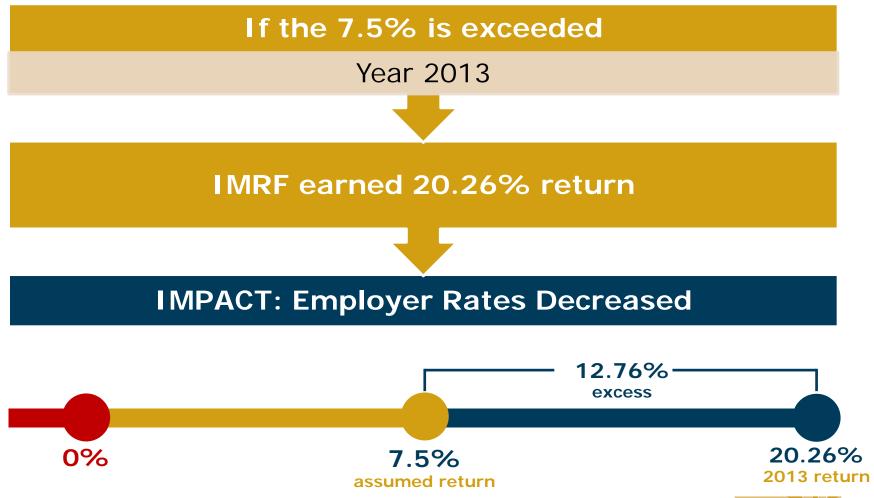
- 1. Mortality rates before and after retirement
- 2. Disability rates
- 3. Rates of retirement
- 4. Rates of separation from employment (Refunds)
- Probabilities of an active member being married

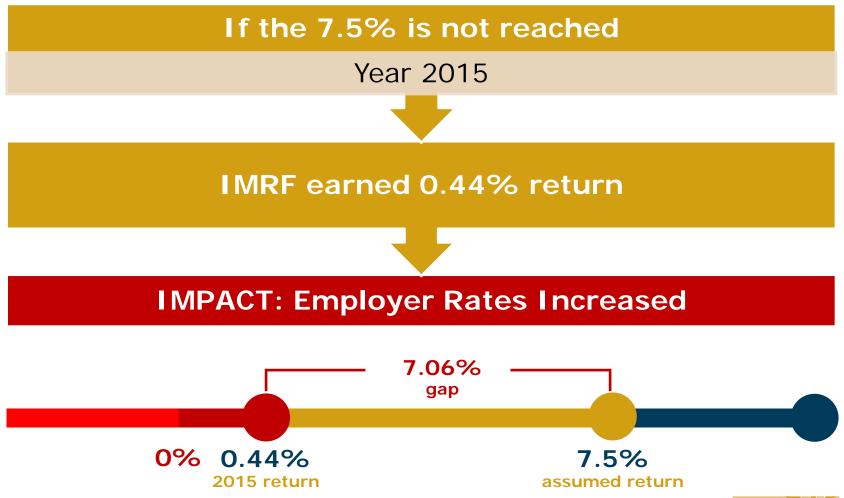
Based upon IMRF's experience during the 2011-2013 period.



## Causes for rate changes

- Wages paid to employees being more or less than assumed
- Rates of disability, retirement, or separation differing from assumptions
- Legislative changes
- Investment returns more or less than 7.5% net
- Periodic adjustments to actuarial assumptions





#### Investment returns and employer rates

- Returns are "smoothed" over a five-year period for rate-setting purposes (Actuarial)
  - Only 1/5<sup>th</sup> of investment gain/loss recognized annually
- Two-year lag between returns and rate impact
  - i.e.: Year 2015 returns will impact 2017-2021 rates

Calendar Year	Percentage Return	Dollar Return	1/5 Recognition
2015	0.44%	\$200,727,209	\$40,145,442
2014	5.76%	\$2,001,420,871	\$400,284,174
2013	20.26%	\$5,583,120,005	\$1,116,624,001
2012	13.75%	\$3,393,689,073	\$678,737,815
2011	-0.29%	(\$92,930,304)	(\$18,586,061)

## **Employer Reserve Statements:**

- IMRF provided Employer Reserve Statements in February 2016
- Statements show employer funds on deposit for current active and inactive members, and current year activity:
  - Interest credited @ 7.5% less funding for employee and annuitant reserves
  - Employer retirement contributions
  - Adjustments (if any)
  - Reductions for 2015 retirees





www.imrf.org

PAGE: 1

#### 2015 EMPLOYER RETIREMENT RESERVE STATEMENT REGULAR RESERVE ACCOUNT

VILLAGE OF ANYWHERE
EMILY EMPLOYER, TREASURER
123 ANY STREET
ANYWHERE, IL 12345

EMPLOYER NBR: 00000

PHONE NUMBER: 000-111-2222

PHONE NUMBER: 800-275-4673

FIELD REP....: MANDY BEEDIE

NORMAL COST 7.890 DISABILITY .110
FUNDING ADJ OVR/UND 6.980 DEATH .170
SUPPLEMENTAL PENSION .620

RETIREMENT 14.870



## Preliminary Rate Notices

- Available April 2016
- Staff reviews rates to ensure accuracy

#### Final Rate Notices

-Available November 2016



#### Final Notice of Illinois Municipal Retirement Fund Contribution Rate for Calendar Year 2016

Date November 2015

Employer name ANYWHERE SD	Employer No. 00000
	IMRF Contributions Regular
Member Contributions (tax-deferred)	4.50%
Employer Contributions • Retirement Rate	
Normal Cost	6.96%
Funding Adjustment <over> under</over>	3.47%
Net Retirement Rate	10.43%
Other Program Benefits	
Death	0.20%
Disability	0.14%
Supplemental Benefit Payment	0.62%
Early Retirement Incentive	0.00%
TOTAL EMPLOYER RATE	11.39%



#### GASB 50 Disclosures (Available April 2016)

- Shows funded status of each employer plan for last three years for its active and inactive members only
- Reflects actuarial funded status using five-year smoothing of investment returns subject to 20% corridor
- Footnote on schedule discloses funded status on market basis



Employer #00000

#### **GASB 50 RSI Information for Employers**

# Anywhere County EMPLOYER NUMBER: 00000R REQUIRED SUPPLEMENTARY INFORMATION Schedule of Funding Progress

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) -Entry Age (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio (a/b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll ((b-a) /c)
12/31/15	\$13,808,007	\$14,090,915	\$282,908	97.99	\$5,627,410	5.03
12/31/14	\$13,100,366	\$13,902,718	\$802,352	94.23	\$5,774,260	13.90
12/31/13	\$12,293,684	\$12,910,844	\$617,160	95.22	\$5,692,950	10.84

On a market value basis, the actuarial value of assets as of December 31, 2015 is \$13,544,431. On a market basis, the funded ratio would be 96.12%.

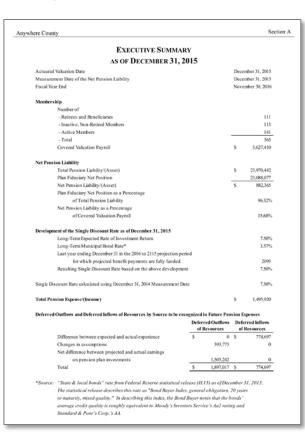
The actuarial value of assets and accrued liability cover active and inactive members who have service credit with Anywhere County. They do not include amounts for retirees. The actuarial accrued liability for retirees is 100% funded.

here Count	у				Sec
	EXECUTIVE SUMMAR	Y			
	AS OF DECEMBER 31, 20	015			
A atmorial	Valuation Date	,,,		Dan	ember 31, 2015
	nent Date of the Net Pension Liability				ember 31, 2015
Fiscal Yea					ember 31, 2015 ember 30, 2016
riscai rea	rend			Nov	ember 30, 2016
Members	hin				
	Number of				
	- Retirees and Beneficiaries				111
	- Inactive, Non-Retired Members				113
	- Active Members				141
	- Total				365
	Covered Valuation Payroll			s	5,627,410
				-	-,,
Net Pensi	on Liability				
	Total Pension Liability/(Asset)			s	23,970,442
	Plan Fiduciary Net Position				23,088,077
	Net Pension Liability/(Asset)			\$	882,365
	Plan Fiduciary Net Position as a Percentage				
	of Total Pension Liability				96.32%
	Net Pension Liability as a Percentage				
	of Covered Valuation Payroll				15.68%
Developm	ent of the Single Discount Rate as of December 31, 2015				
	Long-Term Expected Rate of Investment Return				7.50%
	Long-Term Municipal Bond Rate*				3.57%
	Last year ending December 31 in the 2016 to 2115 projection peri	od			
	for which projected benefit payments are fully funded				2095
	Resulting Single Discount Rate based on the above developmen	t			7.50%
Single Dis	count Rate calculated using December 31, 2014 Measurement Dat	e			7.50%
Total Pen	sion Expense/(Income)			\$	1,495,920
Deferred	Outflows and Deferred Inflows of Resources by Source to be reco				
			red Outflows Resources		erred Inflows Resources
	Difference between expected and actual experience	s	0	\$	774,697
	Changes in assumptions		393,775		0
	Net difference between projected and actual earnings				
	on pension plan investments		1,503,242		0
	Total	S	1,897,017	s	774,697
*Source:	"State & local bonds" rate from Federal Reserve statistical rel-	ease (H	15) as of Deci	omber	31. 2015
Dom et.	The statistical release describes this rate as "Bond Buyer Index				
	to maturity, mixed quality." In describing this index, the Bond	_			
	average credit quality is roughly equivalent to Moody's Investo				
	are uge erean quanty is roughly equivalent to shootly s hiveste	and mer ha	ee a zinez ruiti	S am	-

# GASB 68 Statement Page 1



# **GASB 68 Statement Page 1, Key Details**



#### **Census Data**

Membership	
Number of	
- Retirees and Beneficiaries	111
- Inactive, Non-Retired Members	113
- Active Members	 141_
- Total	365
Covered Valuation Payroll	\$ 5,627,410

#### **Funding Level**

Plan Fiduciary Net Position as a Percentage	
of Total Pension Liability	96.32%

#### **Long-Term Municipal Bond Rate**

Long-Term Municipal Bond Rate*	3.57%	5
--------------------------------	-------	---



SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS
CURRENT PERIOR

Anywhere County

#### CALENDAR YEAR ENDED DECEMBER 31, 2015

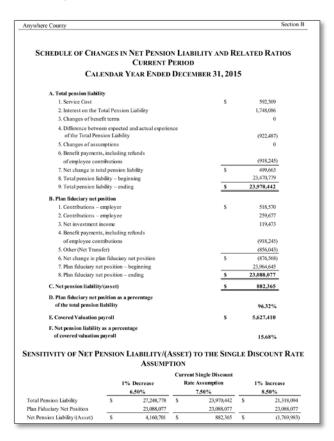
A. Total pension liability		
1. Service Cost	\$	592,309
2. Interest on the Total Pension Liability		1,748,086
3. Changes of benefit terms		0
Difference between expected and actual experience		
of the Total Pension Liability		(922,487)
5. Changes of assumptions		0
<ol><li>Benefit payments, including refunds</li></ol>		
of employee contributions		(918,245)
7. Net change in total pension liability	\$	499,663
8. Total pension liability - beginning		23,470,779
9. Total pension liability – ending	\$	23,970,442
B. Plan fiduciary net position		
<ol> <li>Contributions – employer</li> </ol>	\$	518,570
<ol> <li>Contributions – employee</li> </ol>		259,677
3. Net investment income		119,473
4. Benefit payments, including refunds		
of employee contributions		(918,245)
5. Other (Net Transfer)		(856,043)
6. Net change in plan fiduciary net position	\$	(876,568)
7. Plan fiduciary net position - beginning		23,964,645
8. Plan fiduciary net position - ending	\$	23,088,077
C. Net pension liability/(asset)	\$	882,365
D. Plan fiduciary net position as a percentage		
of the total pension liability		96.32%
E. Covered Valuation payroll	s	5,627,410
F. Net pension liability as a percentage		
of covered valuation payroll		15.68%

#### SENSITIVITY OF NET PENSION LIABILITY/(ASSET) TO THE SINGLE DISCOUNT RATE ASSUMPTION

	Current Single Discount					
	15	% Decrease	Rate	e Assumption	19	% Increase
		6.50%		7.50%		8.50%
Total Pension Liability	s	27,248,778	\$	23,970,442	S	21,318,094
Plan Fiduciary Net Position		23,088,077		23,088,077		23,088,077
Net Pension Liability/(Asset)	S	4,160,701	\$	882,365	s	(1,769,983)

# GASB 68 Statement Page 10

# GASB 68 Statement Page 10, Key Details



#### **Total Net Pension Liability**

9. Total pension liability – ending	\$	23,970,442
-------------------------------------	----	------------

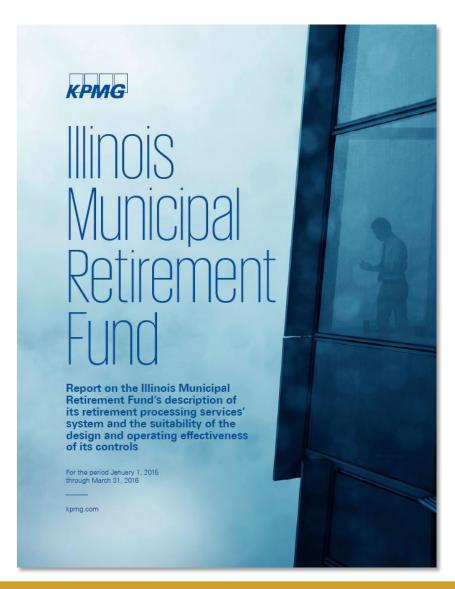
#### **Covered Valuation Payroll**

F. Net pension liability as a percentage of covered valuation payroll 15.68%

## Sensitivity of Net Pension Liability to the Single Discount Rate Assumption

	<b>Current Single Discount</b>					
	1% Decrease		Rate Assumption		1% Increase	
		6.50%		7.50%		8.50%
Total Pension Liability	\$	27,248,778	\$	23,970,442	\$	21,318,094
Plan Fiduciary Net Position		23,088,077		23,088,077		23,088,077
Net Pension Liability/(Asset)	\$	4,160,701	\$	882,365	\$	(1,769,983)





## **SOC-1** Report

For the period January 1, 2015 through March 31, 2016

NASDAQ	7.1%
S&P 500	1.38%
Barclays Aggregate (Bond)	0.55%
Russell 3000	0.48%
Dow Jones Total Mkt.	0.44%
Small Cap Index	-4.41%
International (other than U.S.)	-5.66%
IMRF Benchmark	1.43%

Ending December 31, 2015



- Investment return for 2015 was 0.44%
- Short of assumed actuarial return of 7.5% (7.06% gap)
- Short of Total Fund Benchmark return of 1.43% (0.99% gap)

#### 2014

Members \$6.3 Billion Employers \$11.7 Billion (Balancing Account)

Retirees \$17.9 Billion

2015

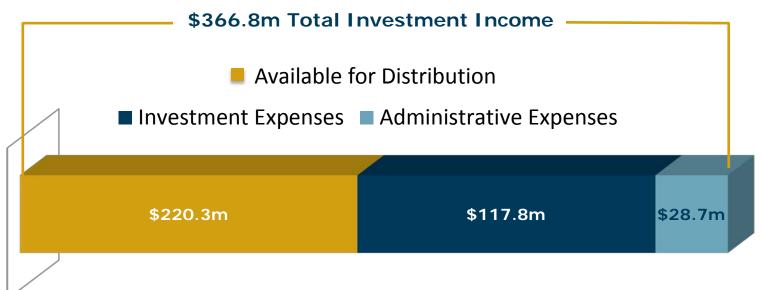
Members \$6.5 Billion 100% Funded

Employers \$8.5 Billion (Balancing Account) Retirees \$19.4 Billion 100% Funded



#### What did a 0.44% return mean for 2015?

- \$366.8 million investment income
  - > \$117.8 million of investment expenses
  - > \$28.7 million of administrative expenses



#### What did a 0.44% return mean for 2015?

- Credited \$1.62 billion to annuitant reserve
  - ➤ Balance (\$19.4 billion)
- Credited \$211.9 million to member reserve
  - ➤ Balance (\$6.5 billion)

#### What did a 0.44% return mean for 2015?

- Charged \$3.17 billion to employer reserves:
  - ➤ Balance (\$8.5 billion)
  - ➤ Included \$1.713 billion of residual loss for 2015
  - > Interest not realized
  - ➤ Percentage for individual employers varies based upon relationship between its employer reserve and annuitant reserve compared to the total of all employers reserves

## **Impact on Funding Ratio**

#### > In 2015:

	BEGINNING OF YEAR		
	Market Value	<b>Actuarial Value</b>	
Assets	\$34,833.10	\$32,700.20	
Liabilities	37,465.10	\$37,465.10	
Ratio	93.0%	87.3%	

END OF YEAR			
Market Value	Actuarial Value		
\$34,461.06	\$34,913.10		
\$39,486.60	\$39,486.60		
87.4%	88.4%		

- Funding value and Market value were impacted by:
  - Investment returns below 7.5%
- > Liabilities grew due to:
  - One more year of service credit

## Magnitude of the Unfunded Liability

	2014	2015
Actuarial Liability	\$37.5b	\$39.5b
Actuarial Assets	<u>\$32.7b</u>	<u>\$34.9b</u>
Unfunded Actuarial Accrued Liability (UAAL)	\$ 4.8b	\$ 4.6b
Market Value of Assets	\$34.9b	\$34.5b
UAAL on Market Basis	\$ 2.6b	\$5.0b

## Points to Remember

- IMRF is a defined benefit plan
- Benefits are based upon a formula that covers the final rate of earnings and years of service
- IMRF's benefits are guaranteed by the Illinois Constitution and can only be changed prospectively by the Illinois legislature for new members

## Points to Remember

- There are only three sources of funding:
  - Member contributions (Fixed)
  - Employer contributions (Variable)
  - 3. Investment return (Variable)
- While member contributions are fixed by statute, investment income varies based upon market returns and employer contributions fund the balance and are also variable.

## Points to Remember



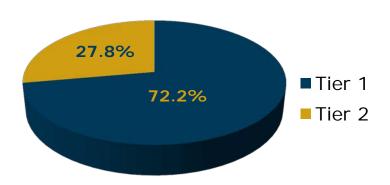
#### 2017 Cost of the IMRF Program

	Regular	SLEP
Retirement	6.71%	11.77%
Disability & Death	.27%	.27%
13 <sup>th</sup> Payment	.62%	.62%
Unfunded Liabilities	3.74%	7.90%
SLEP Supplemental Liabilities	-	1.83%
TOTAL	11.34%	22.39%

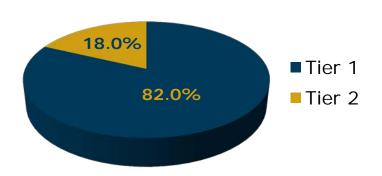
- A 2017 contribution rate HIGHER than the cost of the program means the employer was underfunded as of December 31, 2015
- A 2017 contribution rate LESS than the cost of the program means the employer was overfunded as of December 31, 2015

## Impact of Tier 2 on <u>Blended</u> Normal Cost on the Regular Plan

Tier 1 and Tier 2 Members



Projected 2017 Wages (as % of total IMRF wages)



2017 normal cost for Tier 1	7.28%
2017 normal cost for Tier 2	4.41%
2017 average blended normal cost for Regular Plan	6.76%

## If an employer is less than 100% funded on an actuarial basis:

- 1. Taxing Bodies a 26-year closed period (reducing to 15 years at which time it becomes a 15 year rolling period)
- 2. Instrumentalities a 10-year rolling period

**ERI** – up to 10 years at employer option

#### 2016 Webinars

March 29	Pension Spiking and Accelerated Payment Webinar
May 12	Rate Meeting
August	GASB 68
October	Employer Rate-Making



Visit www.imrf.org for further information

### Illinois Municipal Retirement Fund

#### Contact us:

- Louis W. Kosiba
  - Email: lkosiba@imrf.org; Phone: 630-368-5355
- Mark Nannini
  - Email: mnannini@imrf.org; Phone: 630-368-5345

#### **Employer 800-number:**

**- 1-800-728-7971** 

#### **IMRF** website:

- www.imrf.org
  - Comprehensive Annual Financial Report
  - Annual Budget
  - GASB 68 Resource Page
  - GASB 50 (Employer Access)
  - SOC-1 Document (Employer Access)

IMRF is an Agent Multiple-Employer
 Public Employee Retirement System

Cost method of valuation:
 Aggregate Entry Age Normal

#### IMRF Mission, Vision, and Values

**Mission** - To efficiently and impartially develop, implement, and administer programs that provide income protection to members and their beneficiaries on behalf of participating employers in a prudent manner.

**Vision -** To provide the highest quality retirement services to our members, their beneficiaries and employers.

#### Values - (REAACH)

Respect

**E**mpathy

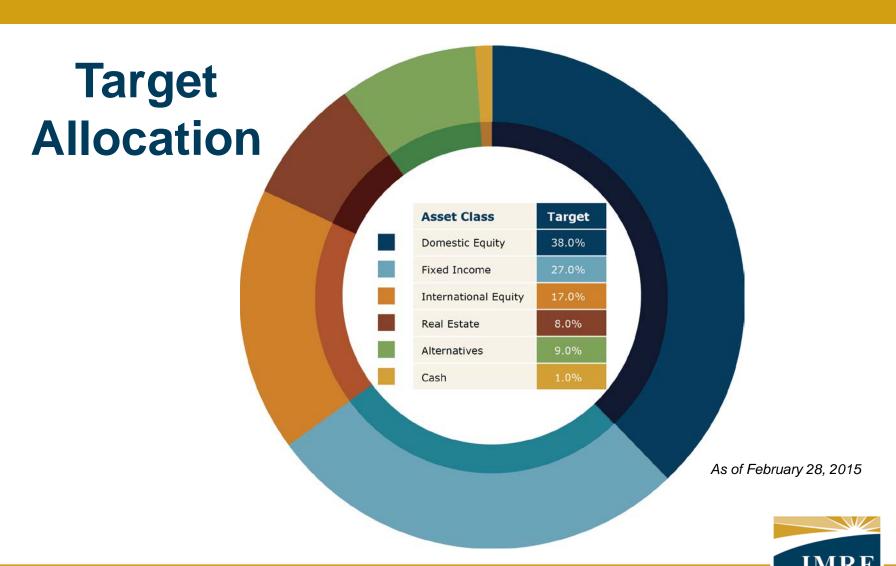
**A**ccountability

**A**ccuracy

**C**ourage

**H**onesty







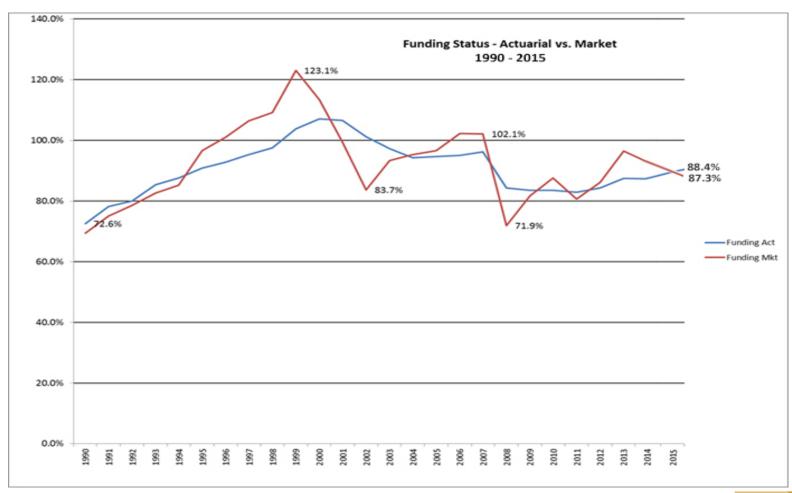


- In 1982, began operating under the "Prudent Person Rule"
- 7.5% assumed return
- Annualized Total Fund return 1982-2015: 9.94%

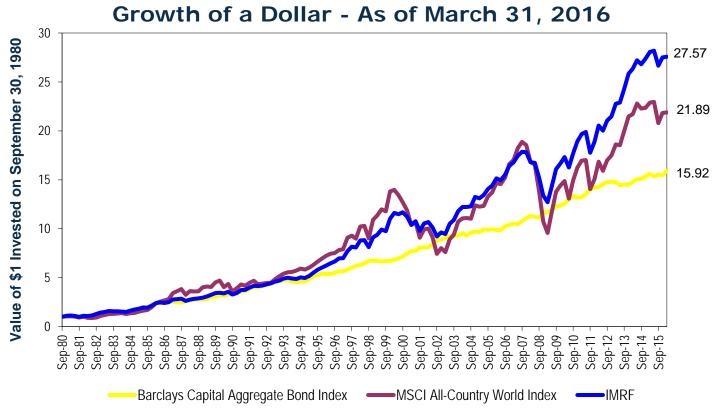
- 6 periods in which IMRF lost money
- 11 periods < 7.5%
- 23 periods > 7.5%
- 20 periods double-digit returns



## Appendix – Funding Status



### How is the money invested?





# Do you have any questions?

# Thank you for attending!

