## CalPERS Update and Path Forward

David Teykaerts, Stakeholder Strategy Manager

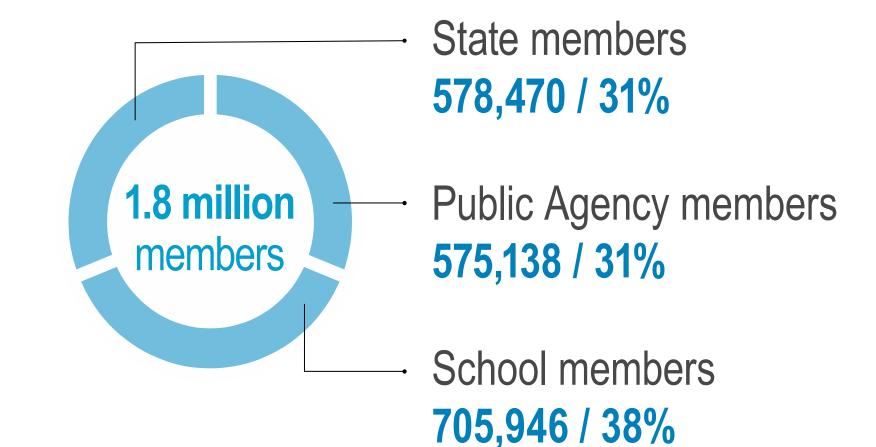
February 13, 2018 City of San Leandro | City Council Work Session



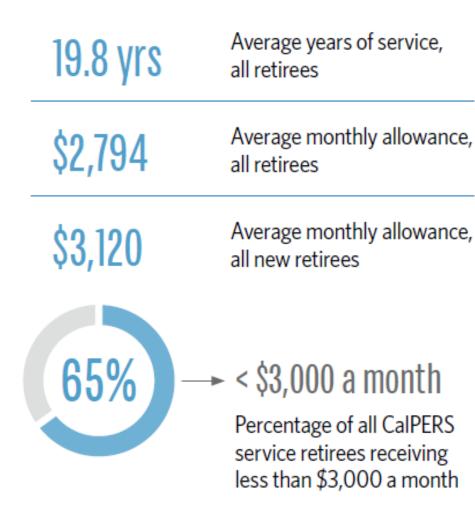
# Facts & Figures



#### **CalPERS Retirement Benefits**









**Financial Highlights** 

## Current Value \$360 billion

11.20%	8.83%	4.39%	6.60%	8.40%
2016/17	5-yr Annualized	10-yr Annualized	20-yr Annualized	Annualized Return
Portfolio Return	Return	Return	Return	Since 1988



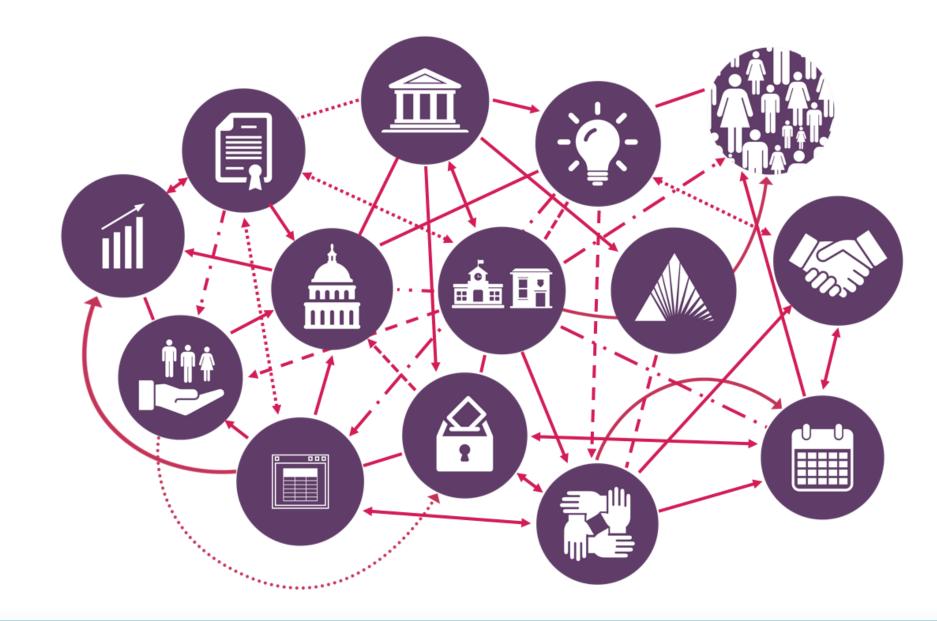
#### How are CalPERS Retirement Benefits Funded?



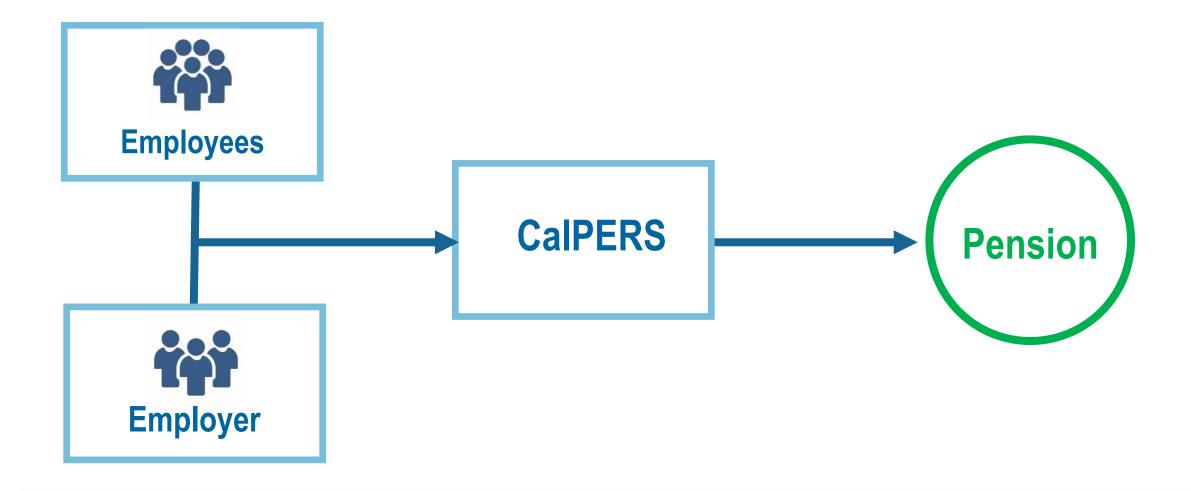


# **Role Clarity**







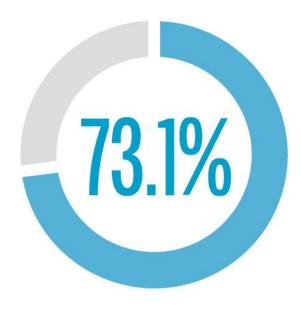


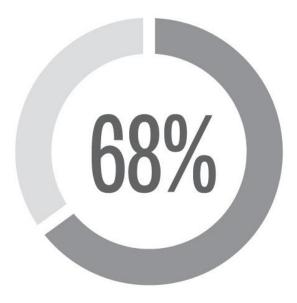


# **Past and Present**



#### **Funded Status**



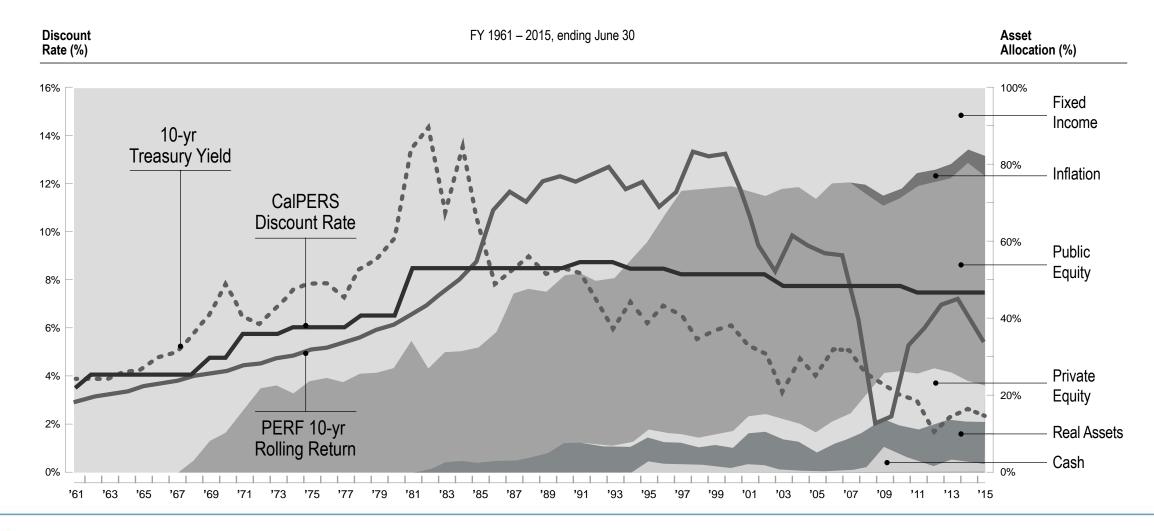


FY 2014-15

#### FY 2016-17 estimate

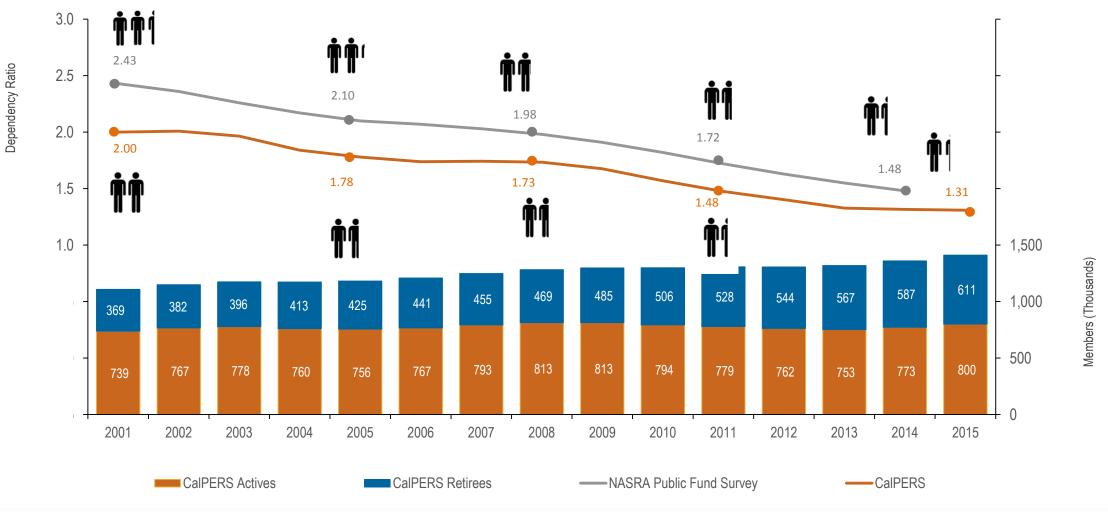












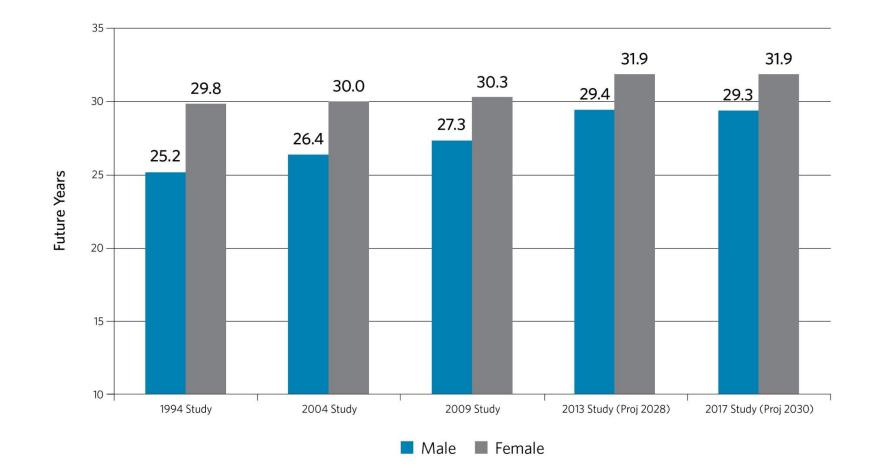






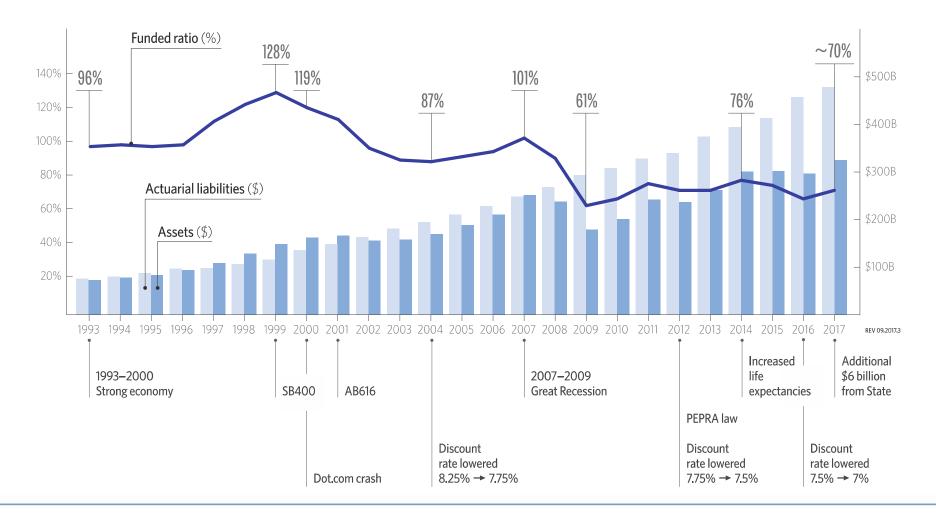


#### Male and Female Life Expectancy at Age 55 for Healthy Recipients





#### Historical Factors Impact Funded Status (1993-2017)

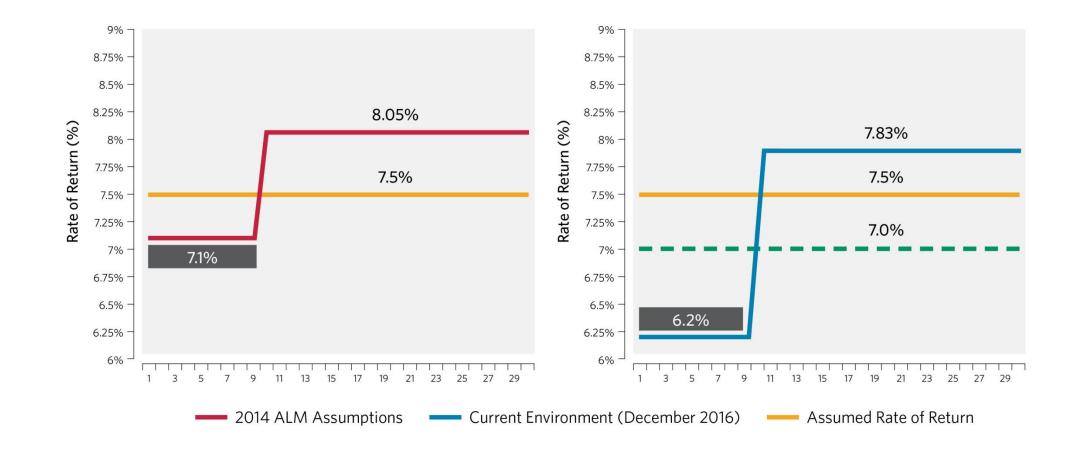




Future



#### **2014 vs Current Capital Market Assumptions**



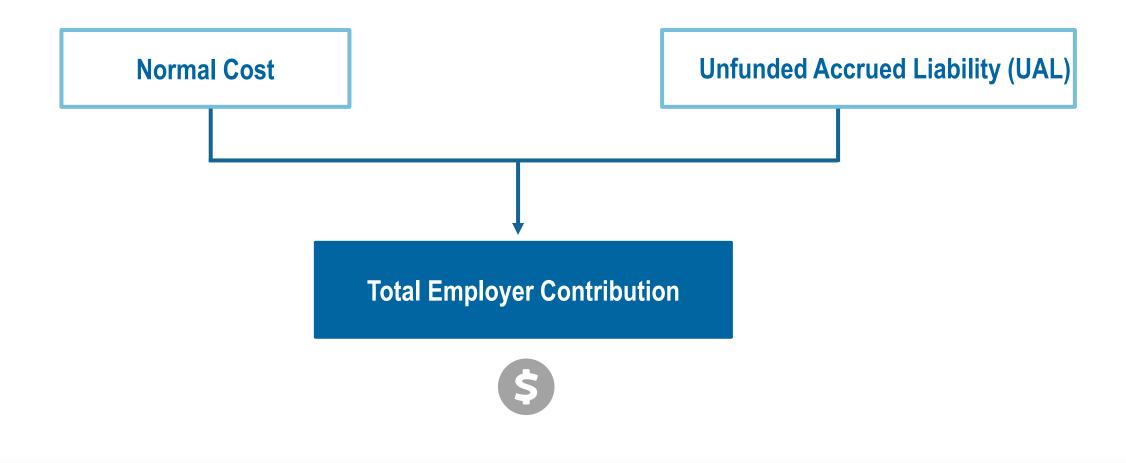


### **2017 Capital Market Assumptions by Asset Class**

Asset Class	60 Year Projected Returns
Global Equity	8.14%
Private Equity	11.26%
Fixed Income	3.21%
Real Assets	6.49%
Inflation Assets	3.08%
Liquidity	2.0%



#### **Employer Contribution Costs**





### **Public Agency Contribution Increases**

	Normal	Cost	UAL Pa	yments
FY Impact	Misc. Plans	Safety Plans	Misc. Plans	Safety Plans
2018-19	0.25% - 0.75%	0.5% - 1.25%	2% - 3%	2% - 3%
2019-20	0.5% - 1.5%	1.0% - 2.5%	4% - 6%	4% - 6%
2020-21	1.0% - 3.0%	2.0% - 5.0%	10% - 15%	10% - 15%
2021-22	1.0% - 3.0%	2.0% - 5.0%	15% - 20%	15% - 20%
2022-23	1.0% - 3.0%	2.0% - 5.0%	20% - 25%	20% - 25%
2023-24	1.0% - 3.0%	2.0% - 5.0%	25% - 30%	25% - 30%
2024-25	1.0% - 3.0%	2.0% - 5.0%	30% - 40%	30% - 40%



#### **Sample Actuarial Valuation: Safety Plan for Large City**

Fiscal Year	Required Contribution	Projected Future Employer Contributions (Assumes 7.375% Return for Fiscal Year 2016-17)							
	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25		
Normal Cost %	20.436%	21.4%	23.2%	23.2%	23.2%	23.2%	23.2%		
UAL Payment	15,606,152	19,342,000	22,124,000	25,684,000	28,837,000	30,929,000	30,918,000		
Total as a % of Payroll*	41.9%	47.2%	51.9%	55.5%	58.5%	59.9%	58.9%		
Projected Payroll	72,627,842	74,806,678	77,050,878	79,362,404	81,743,276	84,195,574	86,721,441		



### **Future Relief – PEPRA Impacts**

- 31% of all public employees have been hired since January 1, 2013
- Pension savings of \$29–\$38 billion over next 30 years
- Pensionable compensation caps on salary:
  - \$118,775 for Social Security participants
  - \$142,530 for non-Social Security participants



# **Policy Decisions**



#### **Candidate Portfolios**

Asset Alloc	folios		Allocation	Interim Policy	ALM Policy			
Asset Class Component	Candidate A	Candidate B	Candidate C	Candidate D	9/30/2017	9/30/2016	2013	
Global Equity	34%	42%	50%	59%	50%	46%	47%	
Private Equity	8%	8%	8%	8%	8%	8%	12%	
Fixed Income	44%	36%	28%	19%	19%	20%	19%	
Real Assets	13%	13%	13%	13%		—	—	
Real Estate			—	_	9%	11%	11%	
Infrastructure/Forestland	—	—	—	—	2%	2%	3%	
Inflation Assets	0%	0%	0%	0%	8%	9%	6%	
Liquidity	1%	1%	1%	1%	4%	4%	2%	
Expected Compound Return (1-10 yrs.)	5.6%	5.8%	6.1%	6.4%	6.0%	5.9%	6.2%	
Long Term Expected Return (11-60 yrs.)	7.8%	8.0%	8.3%	8.5%	8.1%	8.0%	8.3%	
Blended Return (1-60 yrs.)	6.50%	6.75%	7.00%	7.25%	6.85%	6.77%	7.09%	
Expected Volatility	9.1%	10.2%	11.4%	12.8%	11.5%	11.0%	12.0%	
Cash Yield	3.1%	3.0%	2.9%	2.7%	_	—	_	

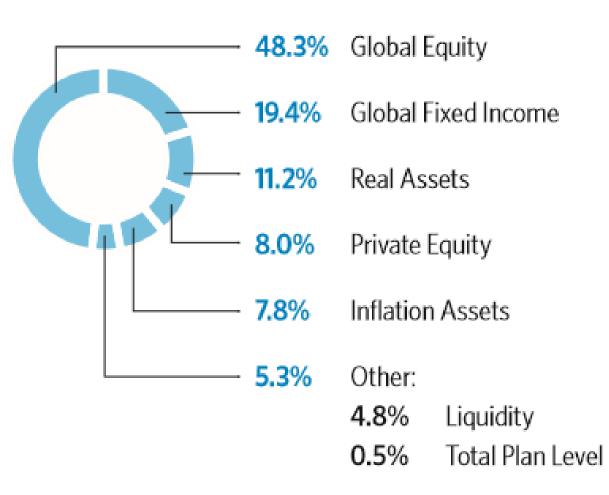
• With the 2013 Capital Market Assumptions, the Current Policy Portfolio had an expected compound return of 7.15% for years 1 through 10, expected compound return of 8.39% for the long term (i.e., years greater than 10), blended return of 7.56%, and expected volatility of 11.76%.

• Blended Return is the weighted expected compound rate of return of years 1 though 10 and the long term, minus 15 bps for admin fees.

• Symbols (circles, squares) correspond to Candidate Portfolios illustrated on pages 6 and 7.



#### **Current Asset Allocation**





#### **Proposed Amortization Policy Change**

- Decision occurring February 13 at CalPERS Board meeting
- <u>Future</u> gains and losses would be amortized over shorter period 30
- The "ramp-down" on gains and losses would be eliminated
- Use a level dollar amount for calculating employer contributions, instead of using a level percentage of payroll
- Save employers money overtime by reducing total amount of unfunded liability
  - Ex: 15 year mortgage vs 30 year mortgage
- Aligns with best industry standards
- Addresses 'intergenerational equity' issue



### Asset Liability Management (ALM) Process





#### Considerations

- Pension prefunding options for employers
- Vested Rights issue in County Retirement Systems and Firefighter cases with State Supreme Court
- Stakeholder engagement with Board and executive team
- No pension reform ballot measure
- Public policy efforts and debate likely forthcoming
- Balancing ESG priorities wit fiduciary obligations



Sou Inves		Comp	Reducing Complexity & Costs			eholder gement
	Managing Risks		Best Practice Leader			nsion unding
	Def	uarding fined fit Plans		Expe	nnical rt and tner	



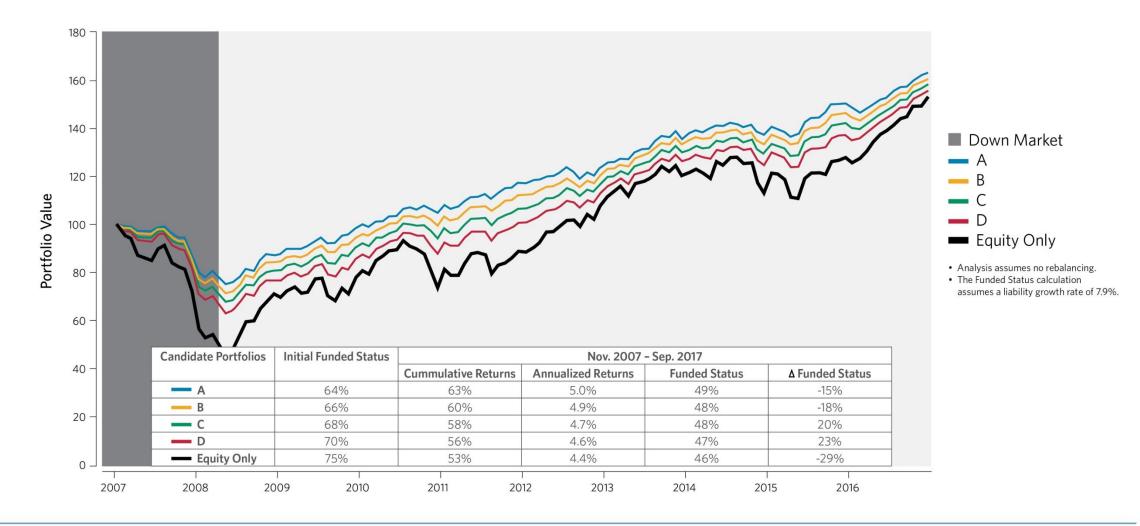
## Appendix

#### **2017 Capital Market Assumptions**

					Correlation						ints (%)
Asset Class	Arithmetic Return	Compound Return	Volatility (Std. Dev)	Global Equity	Private Equity	Fixed Income	Real Asset	Inflation Asset	Liquidity	Floor	Сар
Global Equity	8.14%	6.80%	17.00%	1.00	0.81	0.01	0.59	0.39	0.00	0%	100%
Private Equity	11.26%	8.30%	25.50%	0.81	1.00	0.00	0.48	0.33	0.00	5%	8%
Fixed Income	3.21%	3.00%	6.58%	0.01	0.00	1.00	0.09	0.40	0.31	15%	100%
Real Assets	6.49%	5.75%	12.55%	0.59	0.48	0.09	1.00	0.21	0.00	9%	13%
Inflation Asset	3.08%	2.77%	8.00%	0.39	0.33	0.40	0.21	1.00	0.08	0%	12%
Liquidity	2.00%	2.00%	1.00%	0.00	0.00	0.31	0.00	0.08	1.00	1%	100%
U.S. Inflation Assu	mption: 2:00%	6									



#### Scenario Analysis (Global Financial Crisis & Recovery)





#### **Amortization Policy - 30 Year (Current)**

	Source								
	(Gain)	)/Loss	Assumption/	Benefit	Golden Handshake				
Driver	Investment	Non-Investment	Method Change	Change					
Amortization Period	30 Years	30 Years	20 Years	20 Years	5 Years				
Escalation Rate – Active Plans – Inactive Plans	Payroll (3%) 0%	3% 0%	3% 0%	3% 0%	3% 0%				
Ramp Up	5	5	5	0	0				
Ramp Down	5	5	5	0	0				

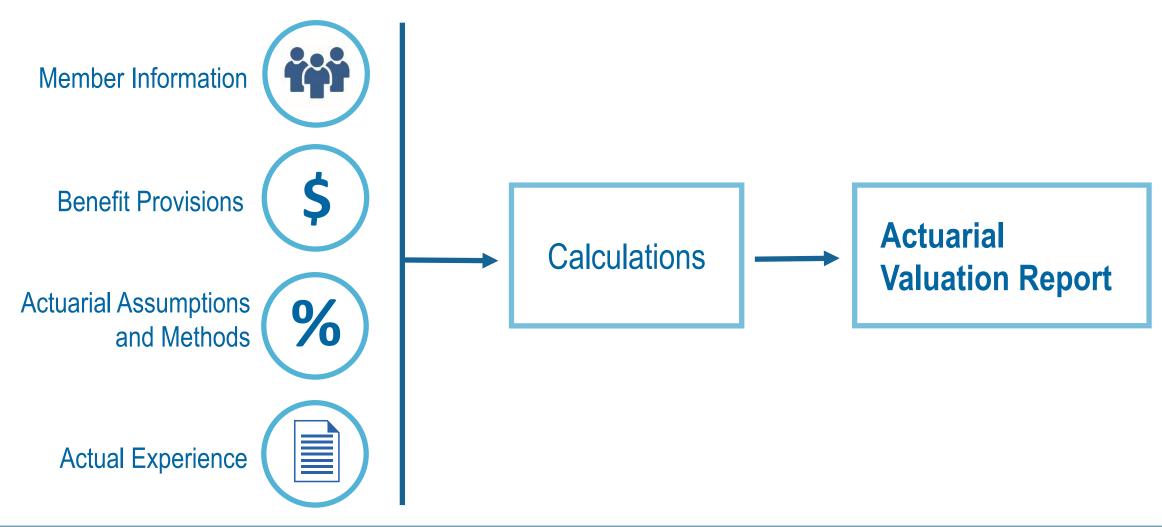


#### **Proposed Actuarial Amortization Policy: 20 Years For Gains & Losses**

	Source								
	(Gain)/Loss		Assumption/	Benefit	Golden				
Driver	Investment	Non-Investment	Method Change	Change	Handshake				
Amortization Period - Active Agencies - Inactive Agencies	20 Years Closed Period (15 years or less)	20 Years Closed Period (15 years or less)	20 Years	20 Years	5 Years				
Escalation Rate	0%	0%	0%	0%	0%				
Ramp Up	5	0	0	0	0				
Ramp Down	0	0	0	0	0				



#### What Goes into Employer Contribution Rates





#### **Definitions**

- Asset Liability Management (ALM) An integrated look at our assets and liabilities to determine the right mix of investments for our portfolio, specifically designed to achieve a sound and sustainable fund. Done on a rolling 4-year cycle.
- **Discount Rate** Also known as the "assumed rate of return". It is what we assume our \$304 billion in investments will return in a typical fiscal year, July 1 to June 30.
- **Normal Cost** The annual cost of service accrual for the upcoming fiscal year for active employees. The normal cost should be viewed as the long term contribution rate.
- **Risk Mitigation Policy** A mechanism that triggers adjustments to strategic asset allocations and reduces discount rate by a set amount when returns exceed a certain threshold. Temporarily suspended.
- Unfunded Liability / Unfunded Actuarial Accrued Liability (UAL) When a plan or pool's Market Value of Assets is less than its Accrued Liability, the difference is the plan or pool's Unfunded Liability. If the Unfunded Liability is positive, the plan or pool will have to pay contributions exceeding the Normal Cost.

