

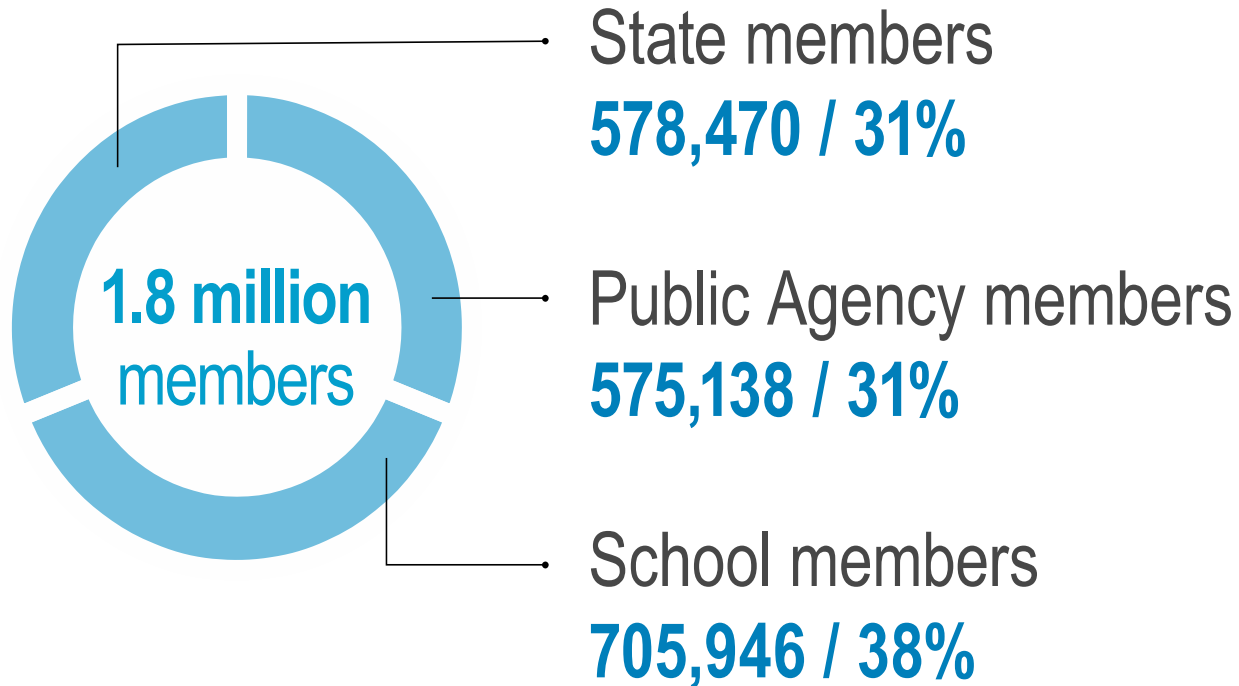
# Strategies for Managing the New Reality

September 15, 2017

Scott Terando, CalPERS Chief Actuary  
League of California Cities

---

## Our Members



---

## Financial Highlights

**Today:**  
\$331 billion in assets

11.2%

FY 2016/17 ESTIMATED  
PORTFOLIO RETURN

5.1%

10 – YR ANNUALIZED  
RETURN

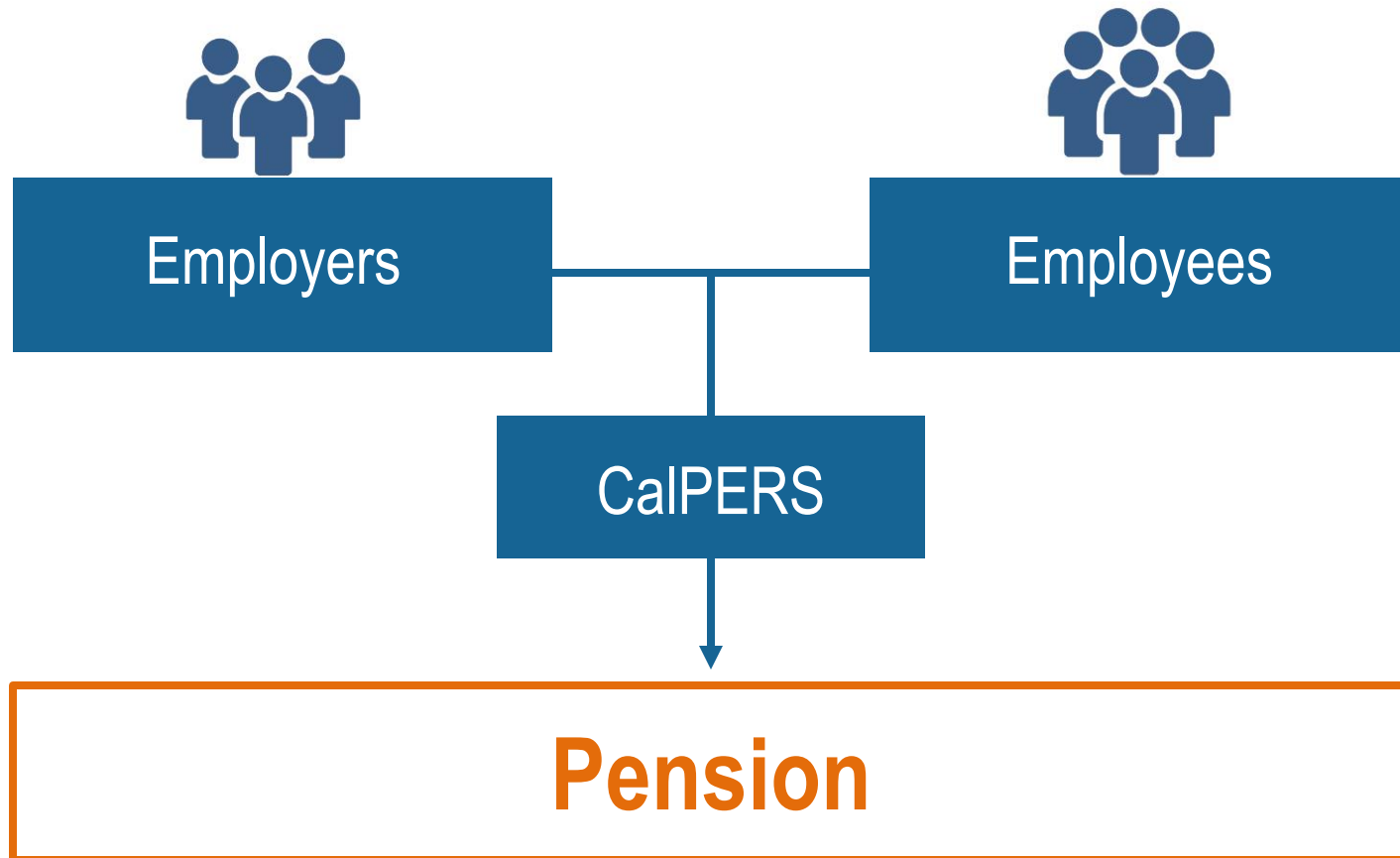
7.0%

20 – YR ANNUALIZED  
RETURN

Since 1988 Fund Inception: 8.4% Annualized Return

---

## Pensions are Funded from Three Sources



---

## What is the Discount Rate?

- What we expect to earn on our investments
- Used to calculate the next fiscal year contributions and projected contributions

---

## Approved Discount Rate Phase-In for Public Agencies

7.5% → 7.0%

Required contributions from FY 2018-19 to FY 2020-21

FY 2018-19 — 7.375%

FY 2019-20 — 7.25%

FY 2020-21 — 7.0%

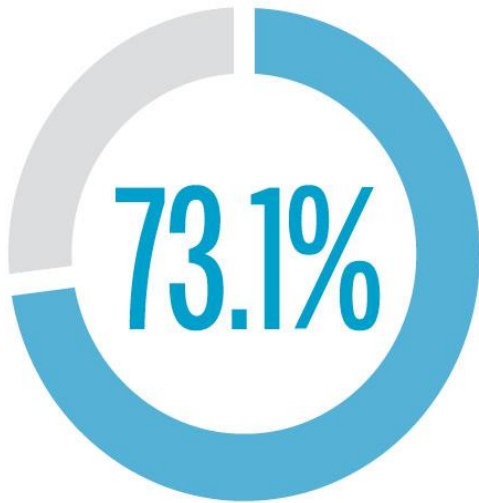
---

## Employer Contributions

- Normal Cost + Unfunded Accrued Liability (UAL) determine the employer contribution
- Higher risks and maturity of the fund creates larger unfunded liability
- Lower discount rate increases UAL
- Contributions are determined by benefit rates, negotiated by the employers/employees

---

## Funded Status (PERF)



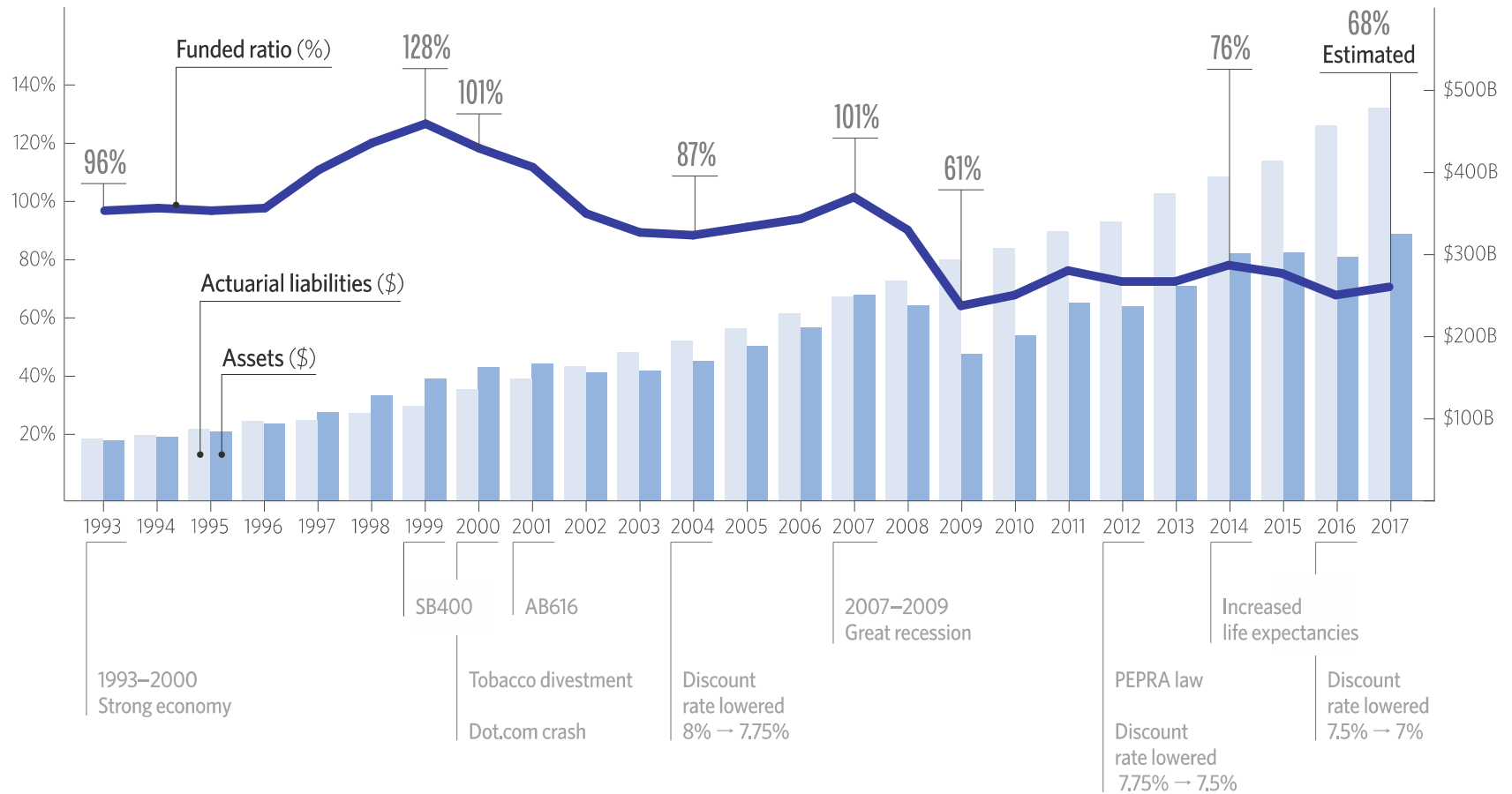
FY 2014-15



FY 2016-17 estimate



# Historical Factors Impacting Funded Status (1993-2017)



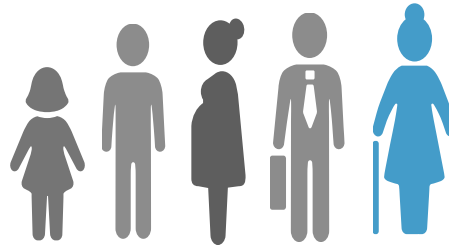
---

# Factors Driving Funding Risk



## Market Conditions

- Current portfolio and market environment includes significant risk of volatility
- Market valuations and return expectations



## Plan Demographics

- Plans are Maturing
- Public Employees are living longer
- Increased cash outflows

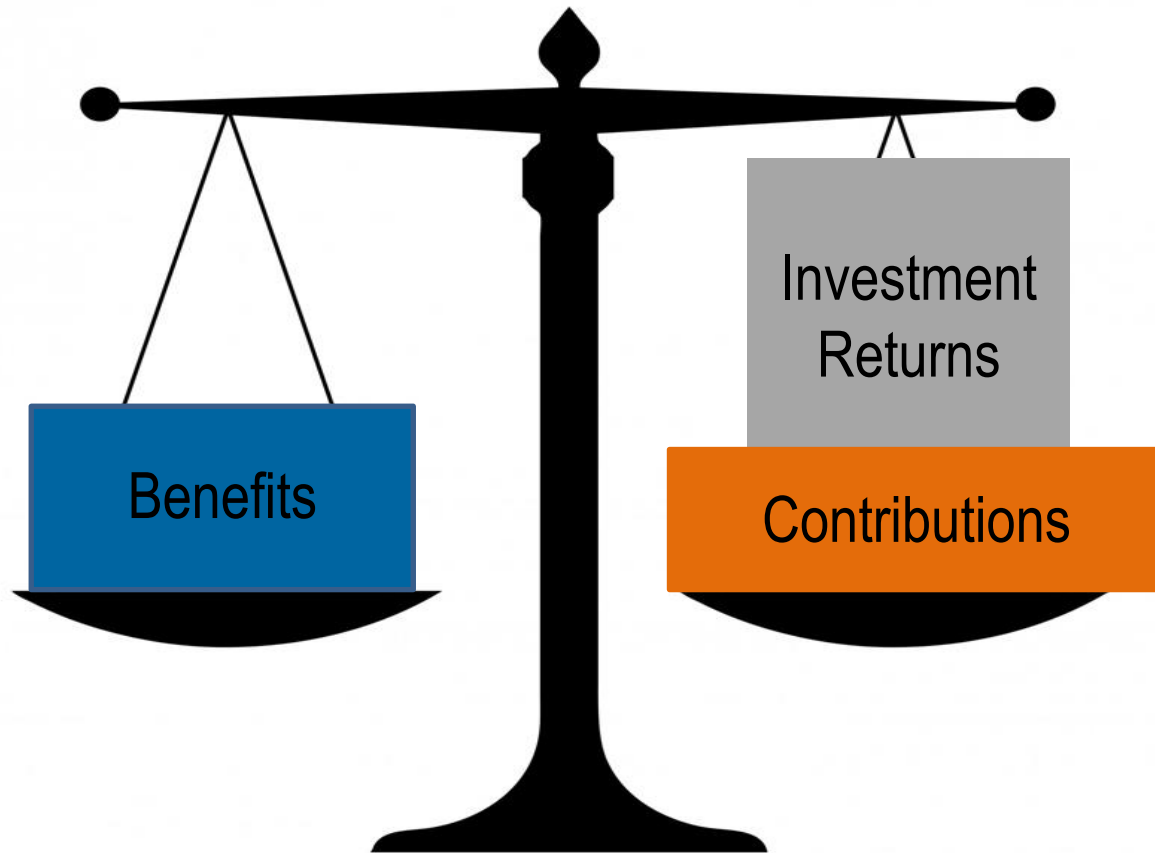


## Benefit Structure

- Asset and liability to payroll ratios increase with higher benefit formula

---

## Balancing the Fund



---

## Considerations for Employer Budget Savings

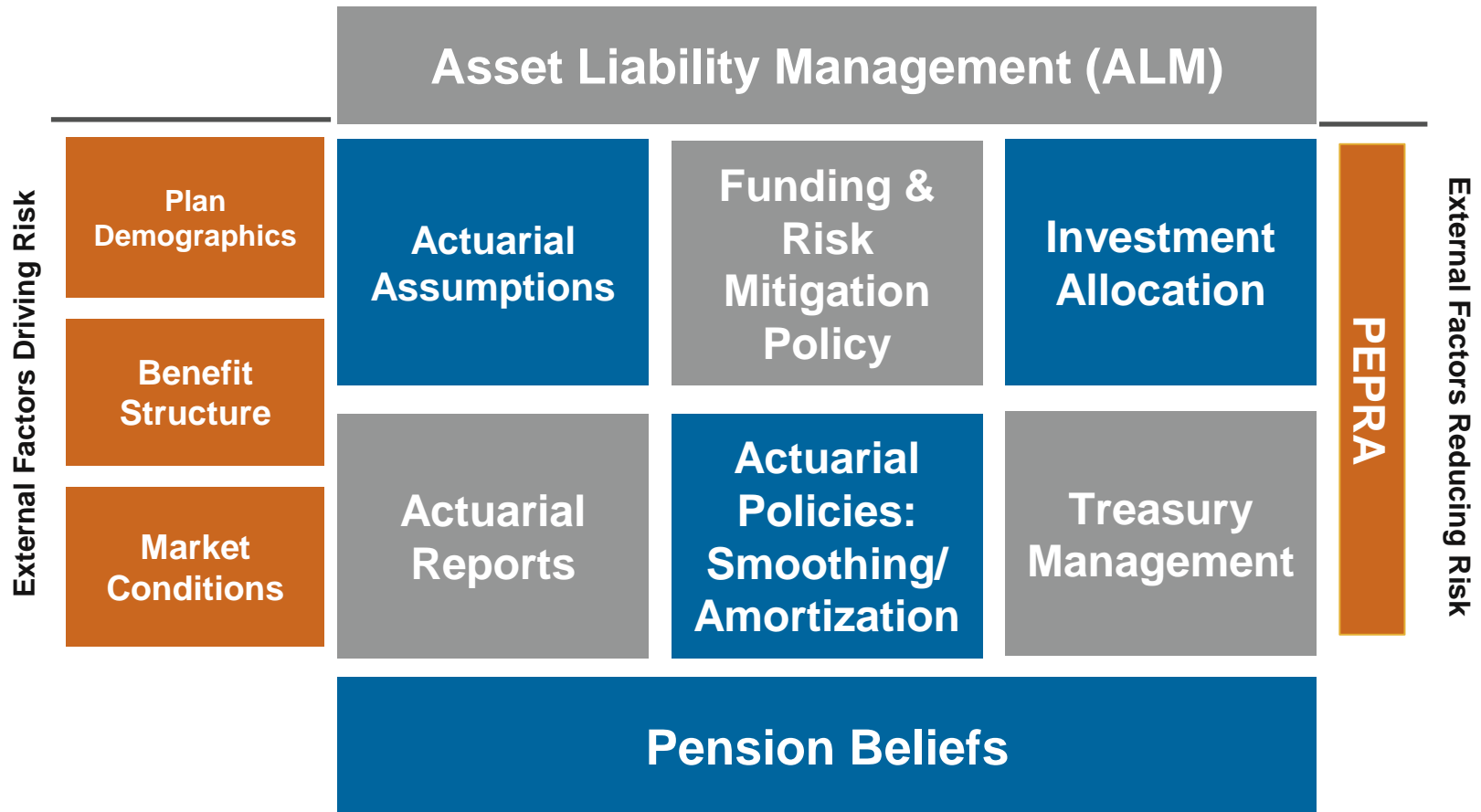
- Additional UAL Contributions
- PEPRA Savings
  - \$29 billion - \$38 billion over the next 30 years

---

## Engage in the Process and Get Involved

- Participate in the Asset Liability Management Process
- Take Part in Employer Education Opportunities
- Connect with CalPERS Staff and Board

# Asset Liability Management (ALM) Framework



# Stay Informed Through the ALM Process



---

## Definitions

- **Normal Cost** – Determined by looking at the annual cost of providing benefits to active employees for the upcoming fiscal year. The normal cost should be viewed as the long term contribution rate.
- **Accrued Liability** (also called Actuarial Accrued Liability or Entry Age Normal Accrued Liability) – The total dollars needed as of the valuation date to fund all benefits earned in the past for *current* members.
- **Unfunded Accrued Liability (UAL)** – When a plan or pool's Value of Assets is less than its Accrued Liability, the difference is the plan or pool's UAL. If the UAL is positive, the plan or pool will have to pay contributions exceeding the Normal Cost.
- **Employer Contribution** – Sum of the normal cost and the UAL payment.



---

## Definitions

- **Discount Rate** – The long-term rate used to fund future pension benefits. The discount rate is also known as the assumed rate of return because it's what CalPERS expects its investments to earn during the fiscal year.
- **Funded Status** – A measure of how well funded, or how "on track" a plan or risk pool is with respect to assets versus accrued liabilities. A ratio greater than 100% means the plan or risk pool has more assets than liabilities and a ratio less than 100% means liabilities are greater than assets.