# 2025 Review of PERF Actuarial Assumptions

Finance and Administration Committee

April 14, 2025



# Today's Presentation

- Overview
- Mortality
- Inflation
- Cost Impacts and Next Steps



# What is an Actuarial Experience Study?

- Reviews actuarial assumptions relative to recent past experience and future expectations
- Performed periodically, usually every 3-5 years
- Recommends whether to maintain or modify existing assumptions



## Importance of Actuarial Assumptions

- Used to determine expected costs for the system:
  - funded status
  - required employer and member contributions
  - financial reporting information
- Used to create actuarial equivalent factors for benefits and service credit purchases
- Assumptions that understate or overstate pension costs result in future funding corrections



## Experience Studies at CalPERS

- Required by PERL Sections 20132 and 20133
- Is a piece of the Asset Liability Management Policy as a deliverable to the Board
- Performed every four years, most recently in 2021



## **Actuarial Assumptions**

The discount rate assumption is studied during asset-liability management cycle





# **Economic Assumptions**

- Long-term Investment Return
- Discount Rate
- Inflation



# Non-Economic Assumptions

- Pay Increases
- Longevity
- Retirement
- Termination
- Disability
- Others



# Key Findings of the Study

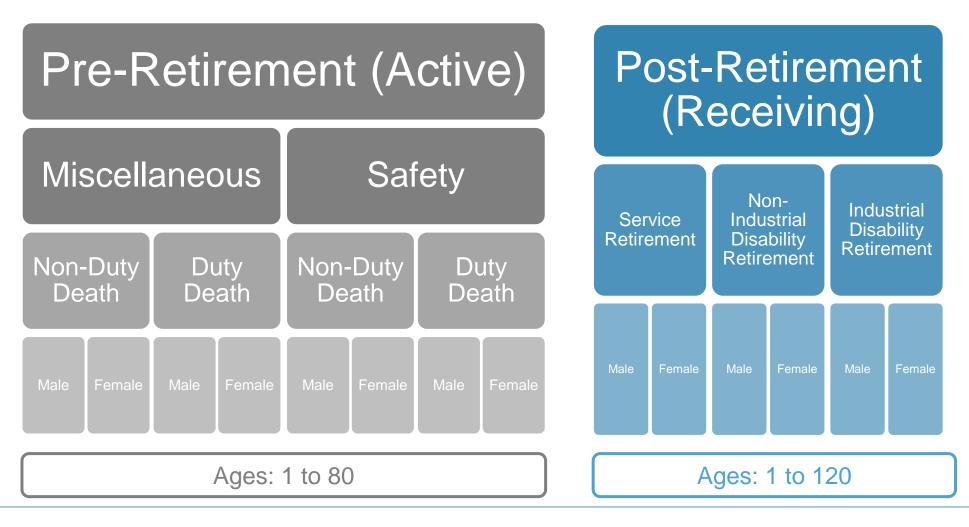
- Study is nearing completion, actual contribution impact analyses are not yet complete
- Four new years of experience, including the Pandemic experience data
- Pandemic experience was excluded for a number of assumptions due to anomalous results
- For many assumptions, significant changes are not warranted



# Mortality



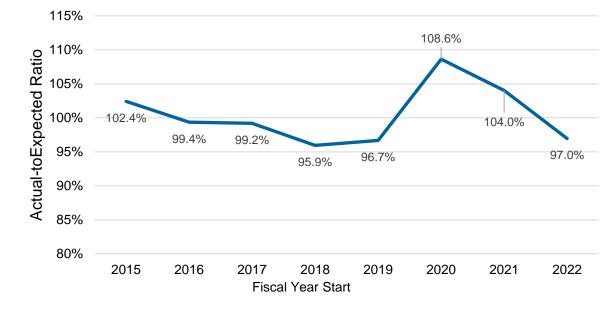
# Mortality Rates





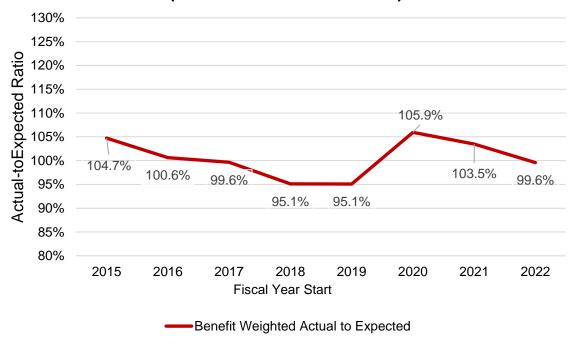
#### Post-Retirement Mortality Analysis – Actual Experience vs Assumptions

#### Male Service Retirement Mortality Actual To Expected Ratios (FY 2015-16 to FY 2022-23)



Benefit Weighted Actual to Expected

# Female Service Retirement Mortality Actual To Expected Ratios (FY 2015-16 to FY 2022-23)





#### Observations

- Mortality experience during the years impacted by COVID provided no value in assessing the current base mortality rates or assumptions for future mortality improvement
- Prior to COVID, the CalPERS mortality rates aligned well with actual experience



# Likely Recommendation in September

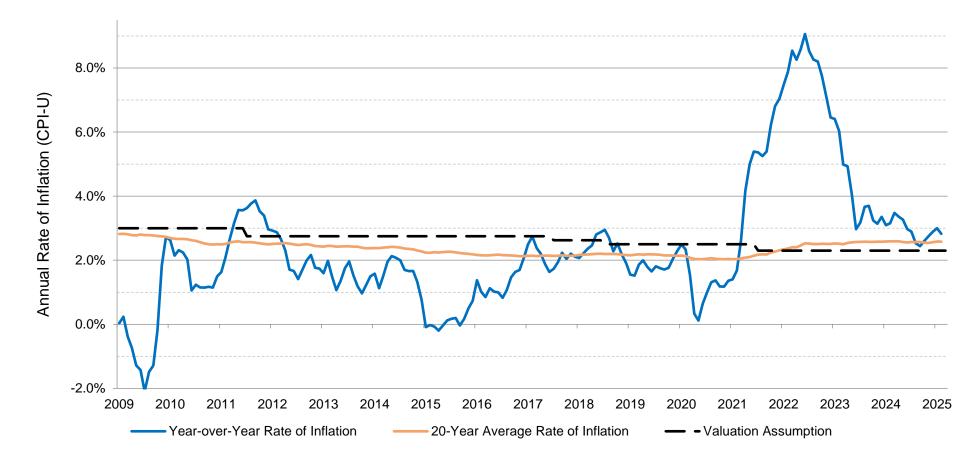
- No change other than the normal improvement progression
- Continue to monitor California and national mortality trends



# Inflation



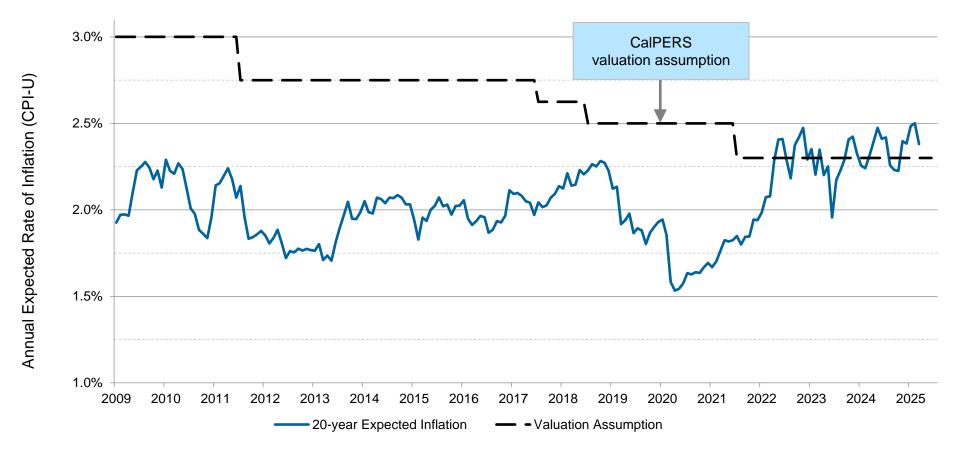
# History of Inflation Since 2009 (CPI-U)





### Cleveland Federal Reserve Inflation Model

Published monthly showing expected inflation for 20 years





#### Observations

- Inflation during the previous 3-4 years has significantly exceeded the inflation assumption
- Recent inflation has slowly declined toward longer historical averages and the Federal Reserve target of 2%
- Forecasters are typically projecting long-term inflation averages to be slightly higher than the current CalPERS assumption of 2.3%



# Likely Recommendation in September

• Increase inflation assumption 10-30 basis points



# Cost Impacts and Next Steps



#### Costs

- Inflation and salary scale revisions will be the biggest drivers for cost change
- The magnitude of the rate changes vary by employee category and benefit provisions (COLA)



## Next Steps

- Study findings are being reviewed by an external actuary
- All results will be presented to the Board
  - First reading, September 2025
  - Second reading, November 2025



### 2025 Asset Liability Management (ALM) Timeline

**Stakeholder Engagement Throughout Cycle** 

#### **MARCH APRIL JUNE JULY Board Offsite Education Education Session: ALM Education Session: Education Session:** Governance & Reporting **Experience Study** Active Risk Session Update ALM Strategy Closed ALM Strategy Closed Stakeholder Webinar Stakeholder Webinar Session Session July 24 April 4 SEPTEMBER **NOVEMBER DECEMBER** First Reading on Recommended: Board Vote on Recommended: Stakeholder Webinar Proposed Reference Portfolio, Active December 4 Proposed Reference Portfolio, Active Risk Limits, Expected Rate of Return, Risk Limits, Expected Rate of Return, Experience Study, Actuarial Experience Study, Actuarial Assumptions, and Discount Rate Assumptions, and Discount Rate **ALM Effective Date July 1, 2026** ALM Strategy Closed Session ALM Strategy Closed Session



# Questions?

