# Affiliate Trust Asset Allocation Review Supplemental Income Plans

Trust Level Portfolio Management Global Equity, Affiliate Investment Program
4/16/2018



### Affiliate Trust Asset Allocation Review: Investment Committee (IC) Engagements in 2018

Monday, April 16<sup>th</sup> Investment Committee

#### Asset Allocation Review:

Supplemental Income Plans (SIP)

Monday, May 14<sup>th</sup> Investment Committee

#### **Asset Allocation Review**

- Judges' Retirement Fund (JRS)
- Judges' Retirement Fund II (JRS II)
- Legislators' Retirement Fund (LRS)
- California Employers' Retiree Benefit Trust Fund (CERBT)

Monday, June 18<sup>th</sup> Investment Committee

#### **Asset Allocation Review:**

- Health Care Fund (HCF)
- Long-Term Care Fund (LTC)



## Agenda

- Overview of CalPERS Supplemental Income Plans
- Introduction to Glide Path Design
- Review of CalPERS Glide Path Design
- Glide Path Recommendation
- Appendix



# Overview of CalPERS Supplemental Income Plans



## Program Overview as of 12/31/17

Program	Purpose	Assets	Participants	Employers	
Public Employees' Deferred Compensation	Pre-tax retirement savings	\$1.5B	27,483	791	
Placer County 401(k)	Pre-tax retirement savings	\$42M	1,434	1	
Supplemental Contributions Program	After-tax retirement savings, tax deferred	\$115M	7,455	1	
Program Totals	\$1.66B	36,672	793		



#### Investment Menu Design

# Tier I Target Date Funds

Custom, age-based funds with asset allocation managed throughout career

# Tier II Core Funds

Six market index funds across asset classes, participant manages allocation

# Tier III Self-managed account

Mutual funds and certificates of deposit offered via brokerage account



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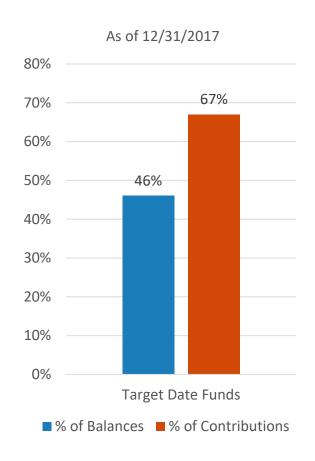
## Investment Fund Lineup

	Asset Class	Investment Funds				
Tier 1	Age-based asset allocation	Target Retirement Date Funds Ten funds: 2055 – Income Fund				
	U.S. Equity	Russell All Cap Equity Index Fund				
	International Equity	Global All Cap Equity Index Fund				
Tier 2	U.S. Fixed Income	U.S. Bond Index Fund				
Tie	U.S. Fixed Income	U.S. Short-Term Govt/Credit Bond Index Fund				
	Real Assets	Real Asset Fund				
	Capital Preservation	Short-Term Investment Fund				
Tier 3	Various	Self-Managed Account: Mutual Funds, Certificates of Deposit				



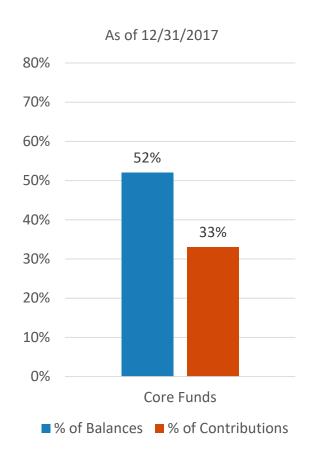
# Tier I: Target Retirement Date Funds (TDFs)

- Participant selects fund nearest retirement date, allocation managed throughout career
  - Investments utilize broad market index funds
  - Glide path customized based on demographics
  - Rebalanced using disciplined process
- Participant usage trending upward
  - 60% invested 100% in TDFs
  - 46% balances
  - 67% contributions
- Qualified Default Investment Alternative
- 2060 TDF can be added



#### Tier II: Core Funds

- Participant selects individual fund(s) and manages allocation
  - Investments utilize broad market index funds
  - No glide path
  - Participant rebalances
- Participant usage trending downward
  - 52% balances
  - 33% contributions



# Tier III: Brokerage Account

- Employers may choose to contract for this option
- Participant selects individual fund(s) and manages allocation
  - Investments utilize mutual funds & certificates of deposit
  - Higher fees for mutual funds
  - Participant rebalances
- Participant usage in line with industry
  - 2% balances
  - 0% contributions



#### SIP Plan Investment Review

2013 Results Simplified lineup, reduced funds from 24 to 16

Moved from active to index, closed balanced funds

Updated glide path based on participant demographics

Opened 2055 Target Retirement Date Fund

2018 Focus Evaluate capital preservation and fixed income options

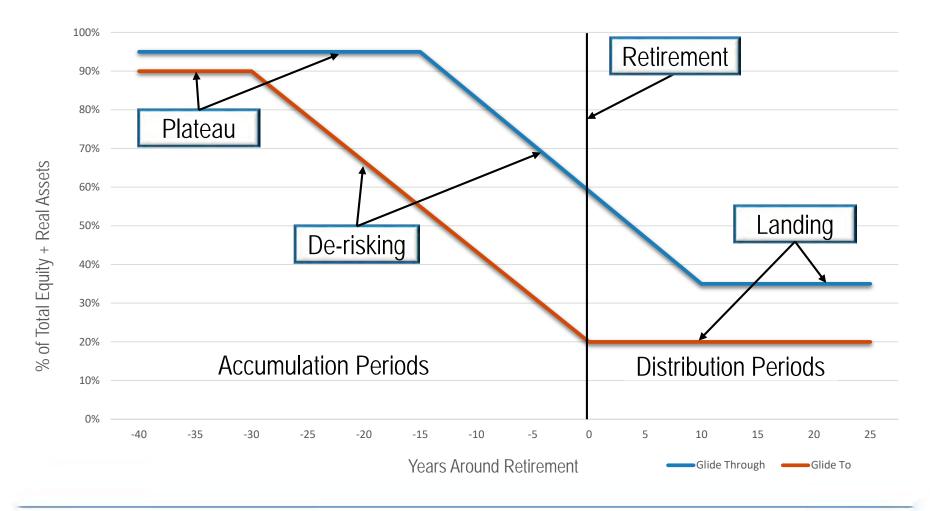
Review and refresh the glide path

Add 2060 Target Retirement Date Fund

# Introduction to Glide Path Design



#### Basic Elements of A Glide Path





# Utility of a Glide Path Design

- Affords a disciplined approach to adjust asset allocation as the plan participant goes through his/her life cycle
- Accruing wealth during the accumulation (Plateau followed by De-risking) years while maximizing the opportunity for income during distribution years, all within a risk-controlled framework
- Efficient portfolios built on risk/return trade-off of the whole accumulation plus distribution period, instead of any static point of time



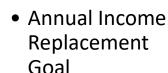
#### RVK Glide Path Design

#### Project Balance Accumulation



- Inflation Rates
- Investment Returns
- Salary Growth
- Participant Contributions

#### Project Income Adequacy



- Household Income
   Sources
- Annual Plan
   Distributions
- Household Life Expectancies

#### Repeat 2,000 times & Rank

- Maximizing Replacement Income
- Minimizing
   Market Risk

Change Glide Path Design (Feedback)





# Review of CalPERS Glide Path Design



#### Distribution in Retirement Phase

	Age Group								
	Distribution Type		55-60	60-65	65-70	70-75	>=75	>=65	
А	No Distributions <sup>1</sup>	95%	94%	89%	85%	56%	14%	69%	
В	Partial Distributions	2%	3%	5%	7%	35%	80%	23%	
A+B	Participants Remaining in Plan	97%	97%	94%	93%	91%	94%	92%	
С	Rollover <sup>2</sup>	1%	2%	3%	5%	5%	1%	4%	
D	Full Cash Distribution	1%	2%	2%	3%	3%	5%	3%	
A+B+C	Participants Fully Invested	99%	98%	98%	97%	97%	95%	97%	
C+D	Fully Depleted Participants <sup>3</sup>	3%	3%	6%	7%	9%	6%	8%	

#### **During 2016:**

- 1. The majority of plan participants make **no distributions before age 70**; however, 31% of plan participants are making distributions after age 65.
- 2. A high percentage of all depletions was due to account rollovers. Research shows that median equity allocation of traditional rollover IRAs is greater than 50%.
- 3. Only a small percentage of participants take a full distribution at retirement, suggesting a "through" glide path is appropriate.



## Inputs to SIP Glide Path Design

23 Starting Age Two members
Household Size

**58** Retirement Age

**65**Age Withdrawals
Start

\$1,800 Beginning Balance 81% Income Replacement Goal

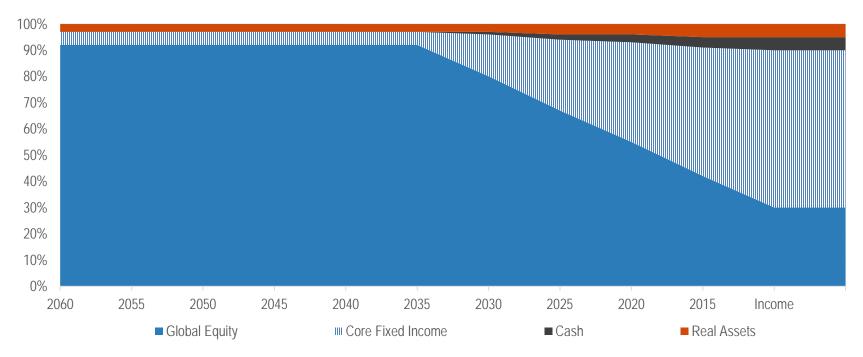
1.8% - 3.2%<sup>1</sup>
Annual
Contribution

**36+ Years**<sup>2</sup> Projected Period

#### Glide Path Recommendation



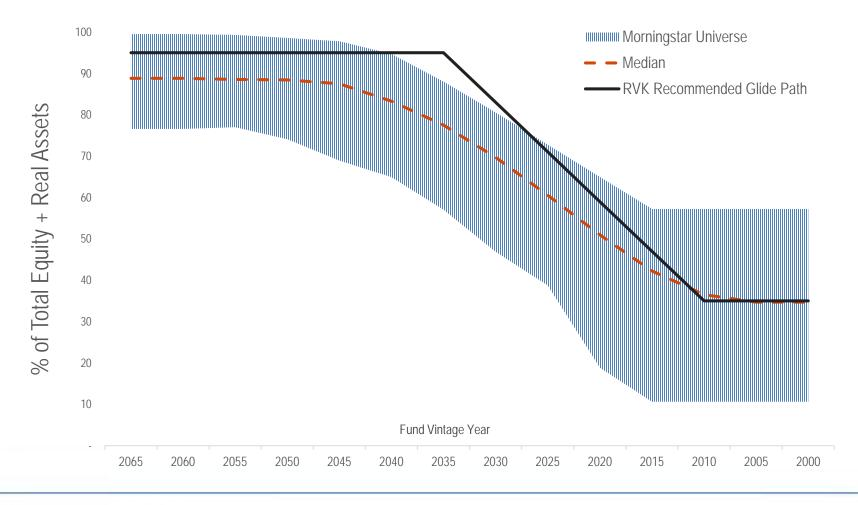
#### SIP Recommended Asset Allocation



	2060	2055	2050	2045	2040	2035	2030	2025	2020	2015	Income
Global Equity	92%	92%	92%	92%	92%	92%	80%	67%	55%	42%	30%
Real assets	3%	3%	3%	3%	3%	3%	3%	4%	4%	5%	5%
Core fixed income	5%	5%	5%	5%	5%	5%	16%	27%	38%	49%	60%
Cash	0%	0%	0%	0%	0%	0%	1%	2%	3%	4%	5%



#### Morningstar Universe and SIP Recommended Glide Path





#### SIP Recommended Glide Path Median Income Projections<sup>1</sup>

6.0%

Annualized Return Before Distribution 13.6%

Annualized Volatility
Before Distribution

\$285,970

**Ending Balance** 

76%

Replacement Rate

71%

Probability of Shortfall

14

Years Before Drawdown<sup>2</sup>

1.5%

Additional Contribution (50% probability of shortfall)

5.8%

457 Replacement Rate

#### SIP Current Glide Path Median Income Projections<sup>1</sup>

5.1%

Annualized Return Before Distribution 10.4%

Annualized Volatility
Before Distribution

\$212,765

**Ending Balance** 

73%

Replacement Rate

83%

Probability of Shortfall

13

Years Before Drawdown<sup>2</sup>

3.6%

Additional Contribution (50% probability of shortfall)

4.3%

457 Replacement Rate

### Implementation Steps

**Update Investment Policy** 

Participant & Employer Communications

Open 2060 Fund

New Glide Path effective October 1st, 2018

# Appendix



### SIP Capital Market Assumptions

Asset Class	SIP Benchmark	Arithmetic Return	Geometric Return	Volatility	Correlations				
					Global Equity	Real Assets	Fixed Income	Liquidity	
Global Equity	Global Equity Composite <sup>1</sup>	8.1	6.8	17.0	1.0	0.8	0.0	0.0	
Real Assets	Real Asset Composite <sup>2</sup>	5.5	4.7	12.8	0.8	1.0	0.1	-0.05	
Fixed Income	Barclays U.S. Aggregate	2.6	2.5	5.0	0.0	0.1	1.0	0.4	
Liquidity	BofA Merrill Lynch 3-Month US Treasury Bill	2.0	2.0	1.0	0.0	-0.05	0.4	1.0	