

## Unlocking Potential: Mastering Investment Planning

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December 15, 2023



Dec. 14-15, 2023 San Diego, CA Municipal Finance INSTITUTE

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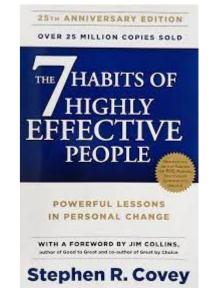
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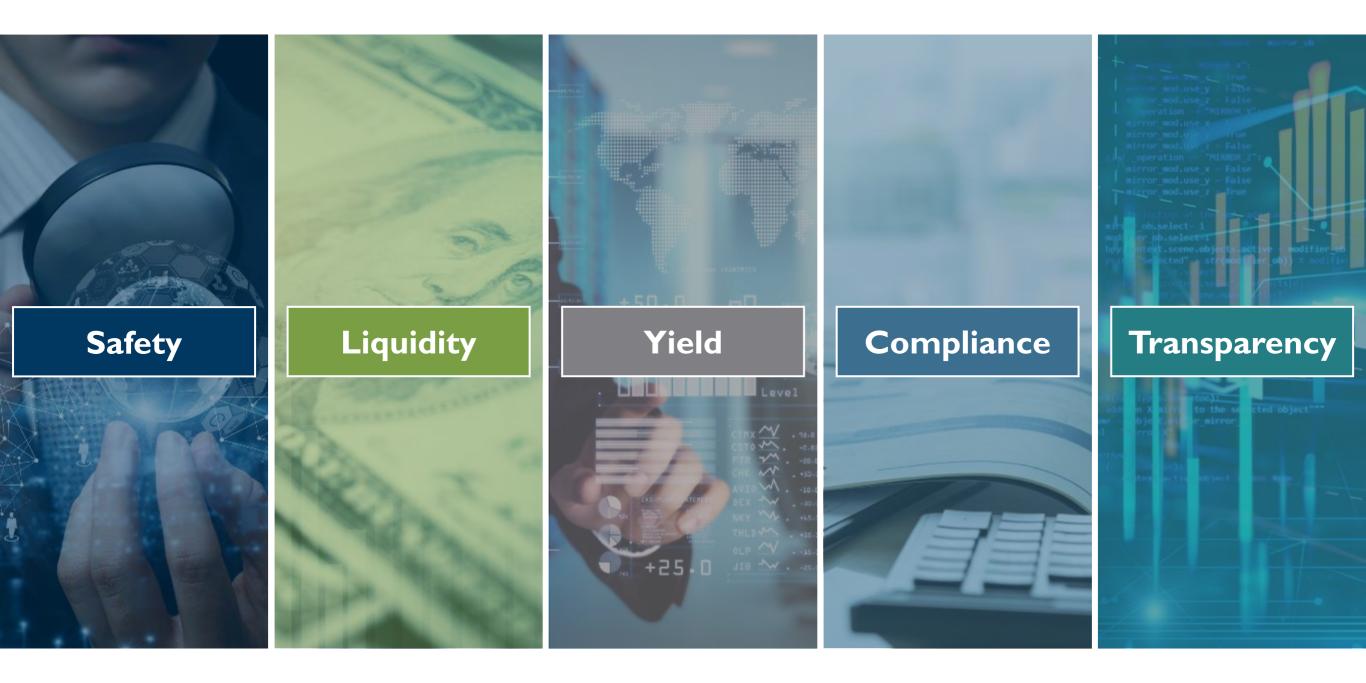
## The Seven Habits of Highly Effective Investment Programs

- Have a Comprehensive Plan In Place (Investment Policy)
- Have a Detailed Asset/Liability Matching Model (aka: Cash Flow Model)
- Have a Responsible Amount of Interest Rate Risk and Credit Risk
- Don't Try to Time the Market (Unrealized vs. Realized Gains and Losses)
- Have an Informed Opinion on Market Conditions
- Benchmark Your Investment Program and Portfolio
- Provide Quality, Timely, Transparent Reporting

The Investment Portfolio is One of the Only Areas of State and Local Governments Where Income Can Be Generated Without Charging Taxes or Fees to the Citizenry.









## Investment Program Objectives: Safety, Liquidity, and Income

- Safety of Principal: Safety of principal is the foremost objective of the investment program. Investments shall be undertaken in a manner that seeks to ensure the preservation of capital in the overall portfolio. To attain this objective, diversification of security types, sectors, issuers, and maturities is necessary in order that potential losses on individual securities do not exceed the income generated from the remainder of the portfolio.
- Liquidity: The investment portfolio shall be structured to timely meet expected cash outflow needs and associated obligations which might be reasonably anticipated. This objective shall be prioritized by matching investment maturities with forecasted
- Investment Income: The investment portfolio shall be designed to earn a market rate of investment income in relation to prevailing budgetary and economic cycles, while taking into account investment risk constraint, and liquidity needs of the portfolio.



# Investment Policy



## Investment Policy: What & Why?

- A written investment policy is the single most important element in a public funds investment program
  - Defines primary objectives: safety, liquidity, and yield/income
  - Sets forth types and characteristics of eligible instruments, the investment process, and the management of the portfolio
- Can improve the quality of decisions and demonstrates a commitment to the fiduciary care of public funds, with emphasis on balancing safety of principal and liquidity with yield/income
- Adherence to an investment policy signals that an entity is well managed and is earning interest income suitable to its situation and economic environment

-GFOA Creating an Investment Policy Best Practices



## Investment Policy Development

A well-defined investment policy is vital to governing the investment and the safekeeping of public funds and should include:

General	Governance	Risk Mitigation &	Reporting &
Investment Rules		Safekeeping	Accountability
Investment objectives	Governing board	Diversification & maximum maturities	Benchmarks & assessment
Allowable	Annual policy	Collateral	Reporting
investments	review	requirements	requirements
Roles &	Define investment	Custodial	Required
responsibilities	committee	services	meetings
Statutory/	Adoption of	Selection &	Record
constitutional	policy by formal	management of	keeping & storage
constraints	action	outside services	requirements



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## California Investment Code

	Authorizing Section		Maximum Maturity	Credit Quality Requirement	Maximum Portfolio Allocation %	% Maximum Per Issuer %	
Investment Type	CA Gov't C	Investment ode Policy	CA Gov't Code	CA Gov't Code	CA Gov't Code	CA Gov't Code	
Municipal Bonds	53601 (a)(c)(d)(e)	15.1	5 Years	None	None	None	
U.S. Treasury Obligations	53601 (b)	15.2	5 Years	None	None	None	
Federal Agency and GSE's	53601 (f)	15.3	5 Years	None	None	None	
Commercial Paper	53601 (h)	15.4	270 Days	A-1 or Higher	25%	10%	
Asset-Backed Commercial Paper	53601 (h)	15.5	270 Days	A-1 or Higher	25%	10%	
Insured Time Deposits	53630 et seq	15.6	5 Years	None	None	None	
Collateralized Time Deposits	53630 et seq	15.7	5 Years	None	None	None	
CD Placement Services	536301.8 & 53635	8 15.8	5 Years	None	50%	FDIC	
Negotiable CD's	53601 (i)	15.9	5 Years	None	30%	None	
Repurchase Agreements	53601 (j)	15.10	1 Year	None	None	None	
Reverse Repurchase Agreements	53601 (j)	15.11	92 Days	None	20%	None	
Medium-Term Corporate Notes	53601 (k)	15.12	5 Years	A or Better	30%	10%	
Money Market Mutual Funds	53601(I)(2)	15.13	NA	Highest by 2 NRSRO	20%	None	
Mortgage & Asset-Backed Securities	53601 (o)	15.14	5 Years	AA-	20%	None	
Local Agency Investment Fund	NA	15.15	NA	None	None	None	
Joint Powers Authority Pools	53601 (p)	15.16	NA	None	None	None	
Supranational Securities	53601 (q)	15.17	5 Years	AA-	30%	None	



## The Importance of a Cash Flow Analysis



## What is a Cash Flow Forecast?

- $\circ~$  Projection of anticipated cash receipts
- Projection of anticipated cash disbursements
- $\circ~$  Used to create an estimate of investable cash balances
  - Liquid funds
  - Reserve funds
- $\circ\,$  "Cash" is the operative word in "cash flow forecasting"
  - No accruals or budgeted funds
  - Only cash is spendable or investable



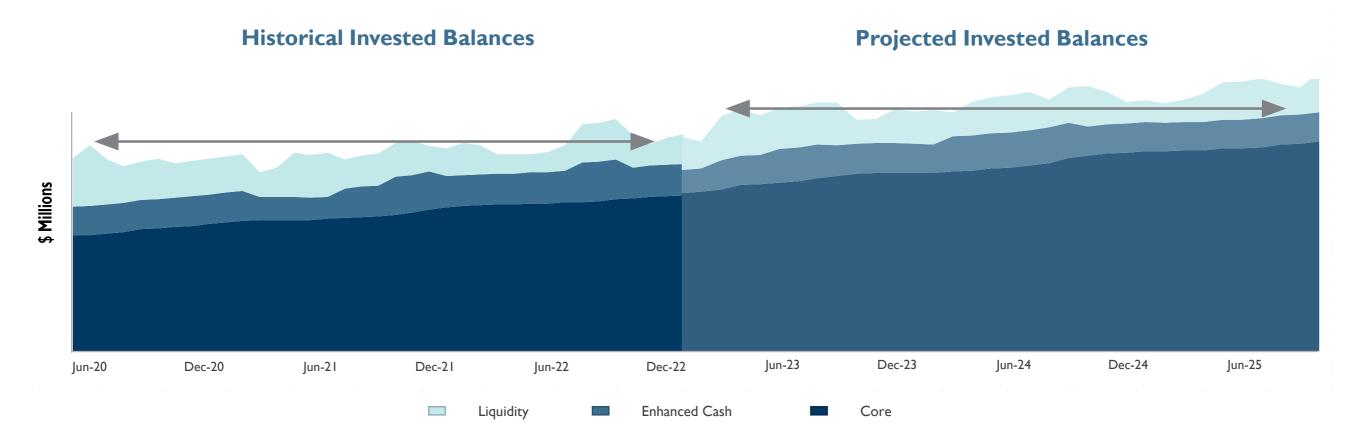
## **Objectives of Cash Flow Forecasting**

- Ensure sufficient liquidity for 6–12-month disbursements
- Improve investment earnings
  - Matching sources and uses of funds
  - Invest reserve/core funds longer-term and more diversified
  - Managing investment risks
    - Liquidity risk
    - Market risk
- Identify Short-term Cash Deficits
- Warn of Impending Budget Problems



### Cash Flow Planning: Historical and Projected Invested Balances

Ensuring sufficient liquidity allows the core portfolio to pursue longer maturities and greater expected returns over time.



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# Risk Management



## Fixed Income Investment Risks

- o Interest Rate Risk: the impact of changes in interest increase/decrease the market value of a bond
  - Related to duration; market value change is inversely related to interest rate movement
- Yield Curve Risk: portfolios have different exposures to how the yield curves shifts
  - Any measure of interest rate risk that assumes that the interest rates changes by an equal number of basis points for all maturities is only an approximation
- Call Risk: the risk of the bond being "called" by the issuer; call risk increases when interest rates decrease resulting in higher reinvestment rate risk due to the lower interest rate environment
  - Callable bonds may provide a higher yield at the time of purchase though the actual yield is determined at the time of call or maturity
- **Reinvestment Risk:** : the risk that proceeds available for reinvestment must be reinvested at a lower interest rate than the instrument that generated the proceeds



## Fixed Income Investment Risks

- **Credit Risk**: There are three types of credit risk
  - Default Risk: the risk that the issuer will fail to satisfy the terms of the obligation with respect to the timely payment of interest and repayment of the amount borrowed
  - Credit Spread Risk: the risk that an issuer's debt obligation will decline to due to an increase in the credit spread (credit spread is part of risk premium or spread over treasuries attributable to default risk)
  - Downgrade Risk: A deterioration in the credit rating of an issue or issuer is penalized by the assignment of an inferior credit rating from its initial rating
- Liquidity Risk: the risk that the investor will have to sell a bond below its true value where the true value is indicated by a recent transaction
  - Primary measure of liquidity is the size of the spread between the bid price (price at which a dealer is willing to buy a security) and the ask price (the price at which a dealer is willing to sell a security)
  - The wider the bid-ask spread, the greater the liquidity risk





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## **Building Your Investment Strategy**

Based upon your specific goals and cash needs



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## Historical Risk and Return

Summary of Total Return Performance of Select ICE BAML Fixed Inco.

ICE Bank of America Merrill Lynch Index Description	Effective Duration <sup>2</sup>	Yield to Worst <sup>1</sup>	Avg. Ann. Total Return (1998-2022)	Avg. Ann. Price Return (1998-2022)	Avg. Ann. Income Return (1998-2022)	Standard Deviation (1998-2022)	# of Years w/ Negative Total Return	# of Quarters w/ Negative Total Return	
3-Month Treasury Bill Index	0.17	4.61%	1.91%	1.91%	0.00%	0.59%	-	-	NA
Enhanced Cash/LAIF	0.74	2.50%	2.22%	0.00%	2.22%	0.41%	-	-	0.76
1-3 Year Gov/Corp AA-AAA Index	1.75	4.84%	2.72%	-0.45%	3.17%	1.47%	2	16	0.56
1-5 Year Gov/Corp AA-AAA Index	2.46	4.65%	3.05%	-0.27%	3.32%	2.06%	3	19	0.55
3-5 Year Gov/Corp AA-AAA Index	3.63	4.34%	3.60%	0.03%	3.57%	3.17%	3	33	0.53



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## What Are My Investment Options?

### • California Joint Power Authority (JPA) investment pools

- California CLASS
- CAMP
- CalTrust
- **o** Money Market Funds and/or Bank Deposits
- Local County Investment Pool
- o **LAIF**
- Other Investments permitted by California Investment Code 53601
  - Treasury and Agencies
  - Municipals
  - Commercial Paper
  - Corporate Notes



## JPA Investment Pools

- Permitted by California Government code 53601 (p)
- May invest only in investments authorized by California Government Code 53601
- Authorized for use by all local governments in California

### California permitted LGIPs

- Joint Power Authority (JPA) pools California CLASS, CAMP and CalTrust
- State pool LAIF
- County investment pools

#### • LGIPs vary based on objectives

- Principal stability value Stable NAV or Fluctuating NAV
- Risk tolerance
- Credit rating



## Commonly Used California Local Government Investment Pool Options

	California CLASS		САМР	CAMP Cal Trust		LAIF
Portfolio Type	Prime Style MMF	Enhanced Cash	Prime Style MMF	Prime Style MMF	Enhanced Cash	Enhanced Cash*
Purpose	Short term liquidity	Core reserve strategy	Short term liquidity	Short term liquidity	Core reserve strategy	Short term liquidity
Investment Advisor	Public Trust	Public Trust	PFM	Blackrock	Blackrock	CA State Treasurer
Rating	AAAm	AAAf SI	AAAm	AAAm AAAm		Not Rated
Liquidity Offered	Daily	Next Day	Daily	Daily	Next Day	Daily
Investment Authorization	53601	53601	53601	53601	53601	16430 and 16480.4
Weighted Average Maturity	60-day max	9mos – 1.25yr	60-day max	60-day max	0-2 Year	Unlimited**
Interest Paid	Monthly	Monthly	Monthly	Monthly	Monthly	Quarterly
Rate	Calculated Daily	Calculated Daily	Calculated Daily	Calculated Daily	Calculated Daily	Posted Weekly
Governance	Board of	Trustees	Board of Trustees	Board of Trustees Board of Trustee		Local Investment Advisory Board

For a full description on rating methodologies please visit www.spglobal.com and www.fitchratings.com. Ratings are subject to change and do not remove credit risk.



# Why Is LAIF underperforming LGIPs?

- As interest rates have risen longer duration/WAM portfolios have underperformed.
- LAIF weighted average maturity (WAM) is 240 days
- LAIF Daily Yield: 3.91%
- LGIPs WAM maximum is 60 days
- LGIP Daily Yield: 5.54%
- $\circ~$  LGIPs vary based on objectives
  - Principal stability value Stable NAV or Fluctuating NAV
  - Risk tolerance
  - Credit rating

Data unaudited. Performance results are shown net of all fees and expenses and reflect the reinvestment of dividends and other earnings. Many factors affect performance including changes in market conditions and interest rates and in response to other economic, political, or financial developments. Investment involves risk including the possible loss of principal. No assurance can be given that the performance objectives of a given strategy will be achieved. California CLASS is not a bank. An investment in California CLASS is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. Although the California CLASS Prime Fund seeks to preserve the value of your investment at \$1.00 per share, it cannot guarantee it will do so. Please review the California CLASS Information Statement(s) located in the Document Center before investing. **Past performance is no guarantee of future results. Any financial and/or investment decision may incur losses.** 



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# LAIF versus LGIP Earnings Analysis 10/21 – 9/23

#### LAIF vs. LGIP Historical Earnings Analysis

Initial Investment Amount:50,000,000Initial Investment Date:10/01/21

		Local Agency Investment Fund Analysis					ocal Governme	ent Investment Pool Ana	lysis <sup>1</sup>
		Annualized	Periodic LAIF				Periodic LGIP		
Date	Beg. LAIF Balance	LAIF Rate	Return	LAIF Interest	End LAIF Balance	Beg. LGIP Balance	Return	LGIP Interest	End LGIP Balance
10/01/21	50,000,000				50,000,000	50,000,000			50,000,000
12/31/21	50,000,000	0.230%	0.057%	28,671	50,028,671	50,000,000	0.010%	5,000	50,005,000
03/31/22	50,028,671	0.320%	0.079%	39,475	50,068,146	50,005,000	0.040%	20,011	50,025,011
06/30/22	50,068,146	0.750%	0.187%	93,621	50,161,766	50,025,011	0.200%	100,136	50,125,148
09/30/22	50,161,766	1.350%	0.340%	170,687	50,332,454	50,125,148	0.550%	275,890	50,401,037
12/31/22	50,332,454	2.070%	0.522%	262,611	50,595,065	50,401,037	0.970%	488,225	50,889,262
03/31/23	50,595,065	2.740%	0.676%	341,829	50,936,894	50,889,262	1.170%	591,962	51,481,225

51,336,923

51.801.459

51,481,225

52,148,498

1.310%

1.410%

Totals:

06/30/23

09/30/23

50,936,894

51.336.923

3.150%

3.590%

1,801,458.72

400,029

464.536

2,872,348.46

667,273

723.851

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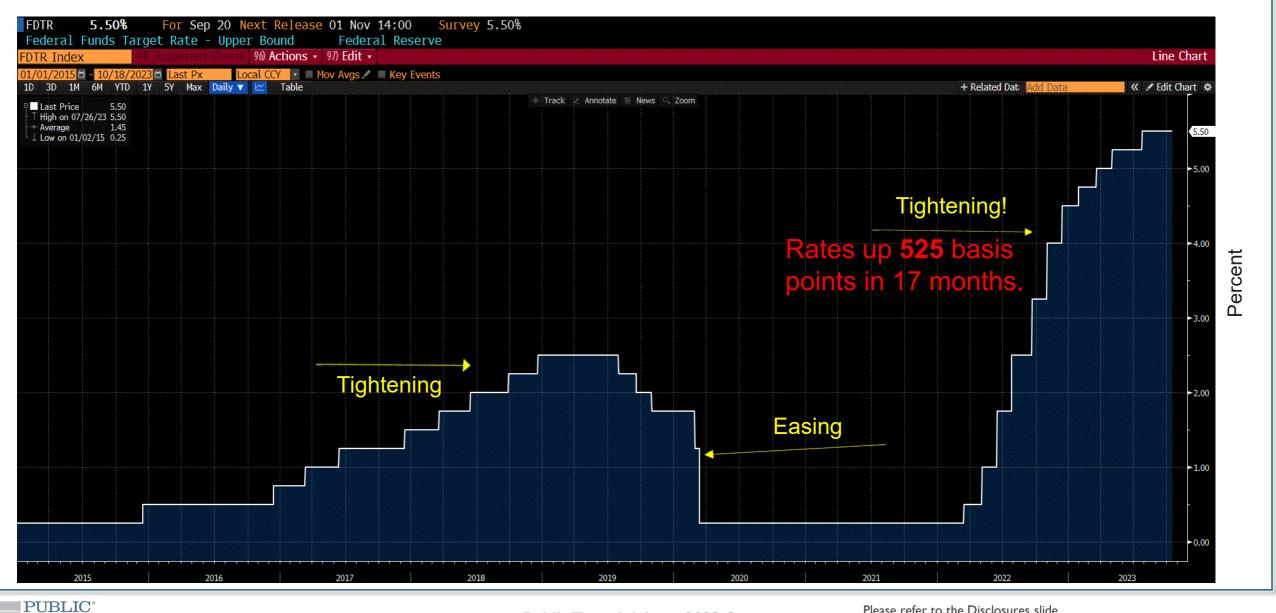
0.785%

0.905%

52,148,498

52.872.348

## Fed Funds Target Rate - Fed Aggressively Fighting Inflation



Source: Bloomberg. Data as of October 18, 2023.

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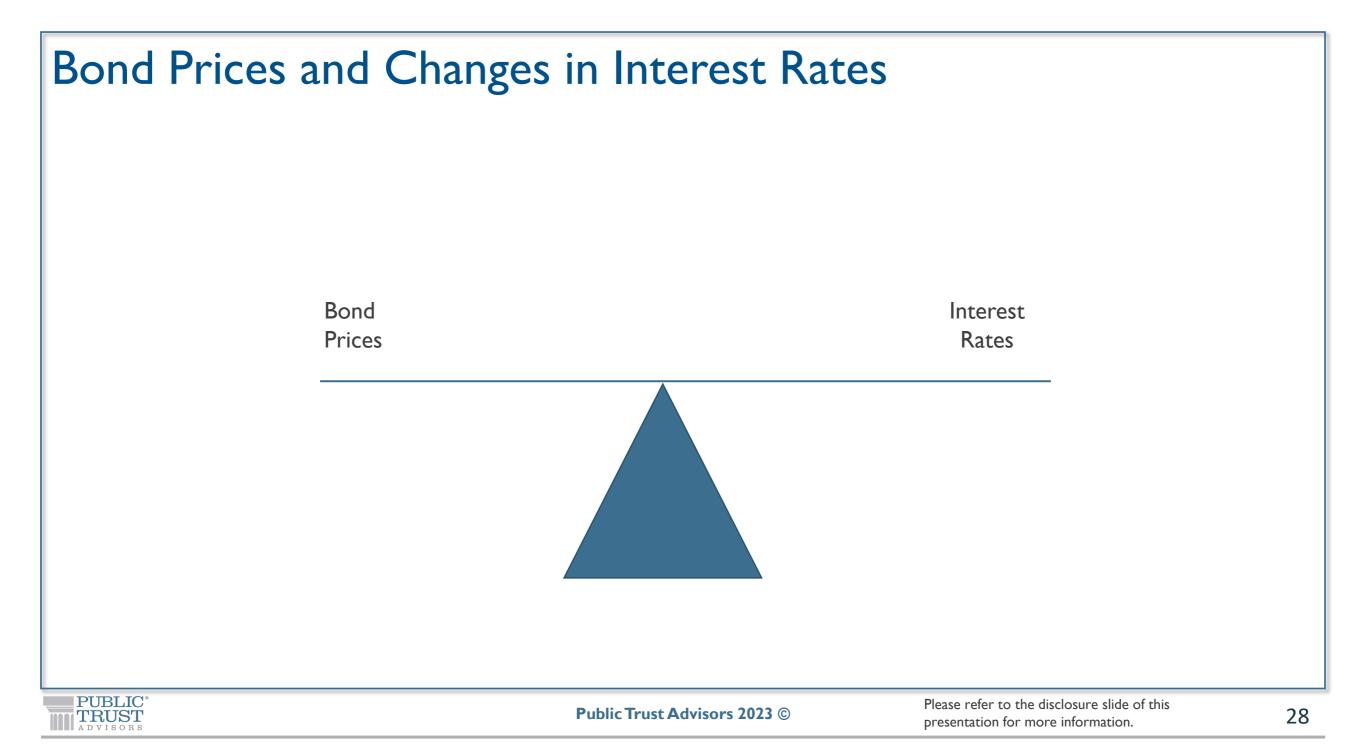
## Federal Reserve Dot Plot

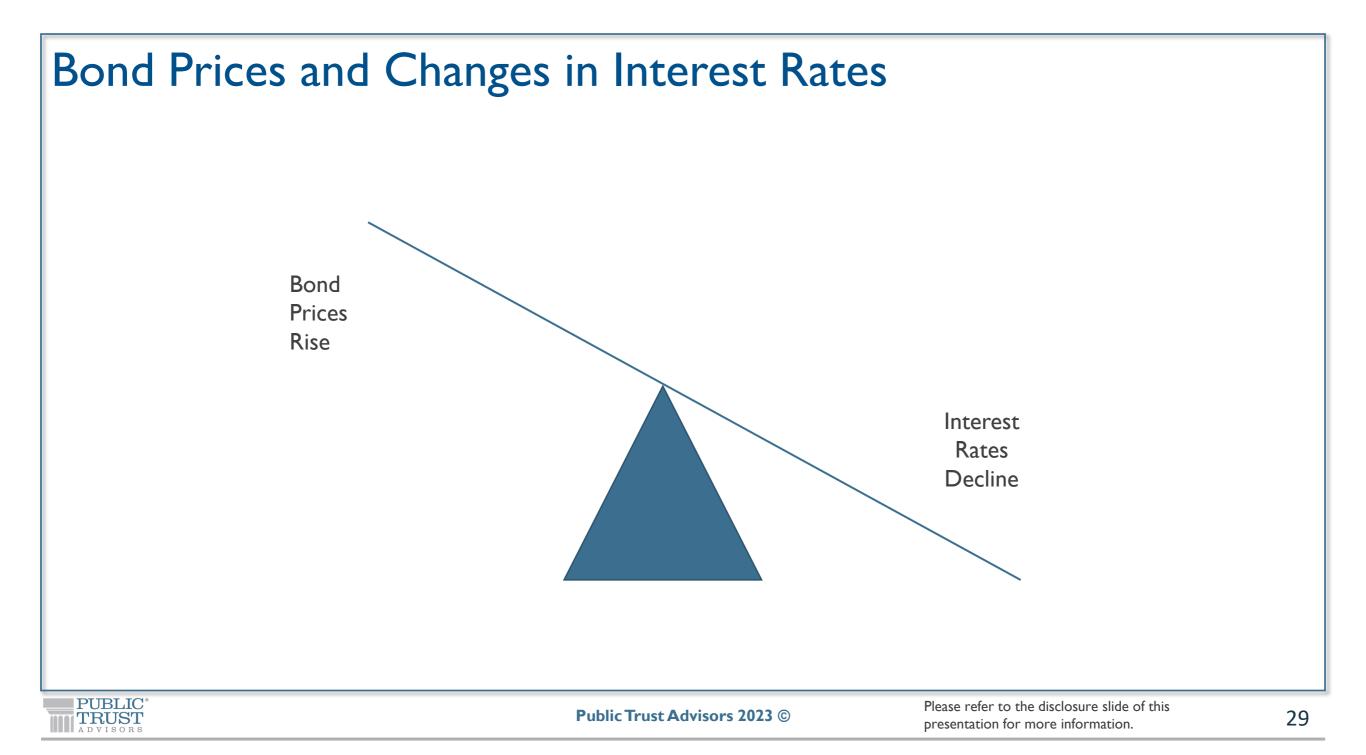


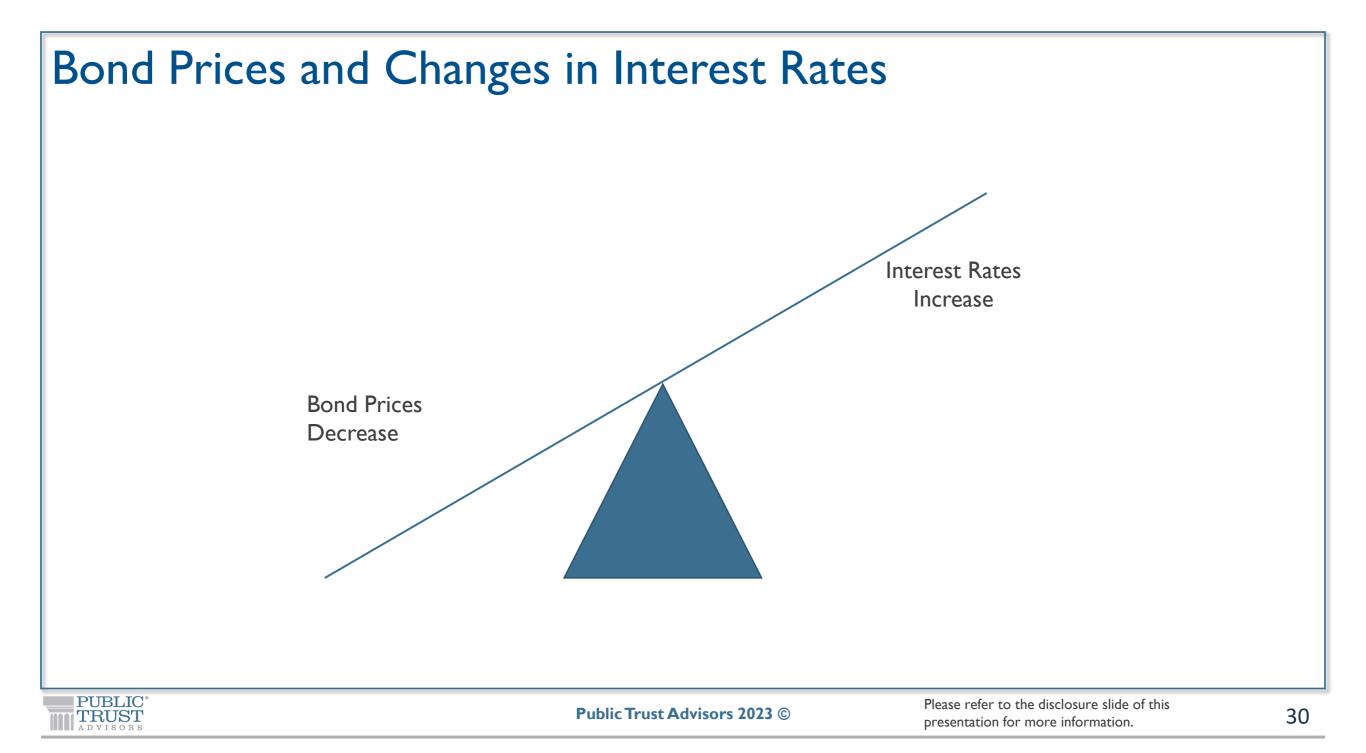


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# Key Investment Program Decisions

- Maintain an Updated Investment Policy
- Perform a Thorough Cash Flow Analysis
- Determine Appropriate Risk Tolerance For Your Entity
- Determine Appropriate Portfolio Sizing For Liquidity and Core Portfolios
- Evaluate Market Conditions and Economic Data
- Consider Historical Perspective and the Current Environment
- Understand Benefits (Enhanced Earnings, Dynamic Management Approach) and Risks involved with various Investment Strategies (Liquidity, Reinvestment, Credit)
- Assess the Relative Value of Your Investment Options
- Implement an Active and/or Passive Strategy for Core and Liquidity Funds based on Investment Management Goals and Objectives





#### Money Market Composite GIPS Composite Report Reported in: USD

	Total Net Return AWR	Primary Benchmark	3Yr Ex Post Std Dev Composite Net	3Yr Ex Post Std Dev Primary Benchmark	Internal Asset Wtd. Dispersion	Number Of Portfolios	Composite Assets (MM)	Total Firm Assets (MM)	
2022	1.76%	1.46%	0.33%	0.34%	0.02%	8	40,271	60,570	
2021	0.07%	0.05%	0.30%	0.32%	0.02%	6	31,903	47,370	1
2020	0.74%	0.67%	0.24%	0.27%	n.m.	6	32,087	44,492	
2019	2.40%	2.28%	0.17%	0.20%	n.m.	≤ 5	25,913	38,404	
2018	2.12%	1.87%	0.19%	0.20%	n.m.	≤ 5	20,067	29,468	
2017	1.14%	0.86%	0.12%	0.11%	n.m.	≤ 5	15,807	22,179	
2016	0.65%	0.33%	0.07%	0.05%	n.m.	≤ 5	12,375	17,547	
2015	0.17%	0.05%	0.01%	0.02%	n.m.	≤ 5	7,135	10,145	:
2014	0.11%	0.04%	0.02%	0.02%	n.m.	≤ 5	5,825	7,418	
2013	0.13%	0.07%	< 3 Years	0.03%	n.m.	≤ 5	5,195	6,512	
2012	0.22%	0.11%	< 3 Years	0.03%	n.m.	≤ 5	2,781	3,177	

n.m. = Not Meaningful

Primary Benchmark: ICE BofA US 3-Month Treasury Index

Composite Creation Date: December 20, 2016; Inception Date: January 1, 2012

1 The Money Market Composite contains portfolios that invest in fixed income instruments to generate current income, maintain liquidity, and preserve capital. The allowable investments for these portfolios are collateralized repurchase agreements, U.S. Treasury securities; government sponsored and guaranteed agencies, commercial paper, certificates of deposit, municipals and other money market instruments. Portfolios included in the Money Market Prime Composite typically permit allocations of ten percent or more to commercial paper, corporate credit, or other non-government sectors. Portfolio weighted average maturity typically will not exceed 60 days to comply with rule 2a-7 guidelines. Most individual holdings are generally limited to a final maturity of 13 months. The benchmark for this composite is the ICE BofAML 3-Month Treasury Bill Index, an unmanaged index of Treasury securities maturing in 90 days that assumes reinvestment of all income. Pools rated 'AAAm' provide excellent safety and a superior capacity to maintain principal value (Source: S&P Global Ratings' website). The comparison between this index and the portfolio may differ in holdings, duration fees, and percentage composition of each holding. Such differences may account for variances in yield. This composite was created on December 20, 2016 and has an inception date of January 1. 2012.

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4 Results are based on fully discretionary accounts under management, including those accounts no longer with the firm. The volatility of the benchmark may be materially different from that of the composite. Benchmark returns are not covered by the report of the independent verifier. The U.S. Dollar is the currency used to express performance. Returns are presented net of management fees and transaction costs and reflect the reinvestment of dividends and other earnings. Dispersion is calculated using the asset-weighted standard deviation for all accounts in the composite for the full year based on the net returns. For those years where less than six portfolios were included in the composite for the full year, no dispersion measure is presented. The three-year annualized standard deviation measures the variability of the composites for this strategy will be achieved. Past performance is not a guarantee of future results. Net-of-fees returns are calculated using the actual management fee incurred. Portions of the track record history may include accounts that paid fees lower than the current fee schedule. Investment management fees incurred by client's range between 0.10% and 0.20%. All fees are subject to negotiation and are dependent on a number of factors, including account services provided and size of portfolio.



#### Performance

Annualized as of September 30, 2023

Time Period	California CLASS Prime
Inception Date	7/1/2022
1 year	4.8243%
3 years	N/A
5 years	N/A
10 years	N/A
Since Inception	4.2908%

Benchmark(s)	1 year	3 year	5 year	10 year
ICE BofA US 3-Month Treasury Index	4.4717%	1.7003%	1.7165%	1.1148%

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The ICE BofA ML 3-Month T-Bill Index is an unmanaged index that measures the returns of three-month U.S. Treasury Bills. The ICE BofA ML 6-Month T-Bill Index is an unmanaged index that measures the returns of six-month U.S. Treasury Bills.

Investors cannot purchase the index directly. Fees will reduce returns.

