

# FGFOA Webinar: A Roadmap for Uncertain Times

**Creating Better Investment Policies** 

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#### **Creating Better Investment Policies**



Presenter:
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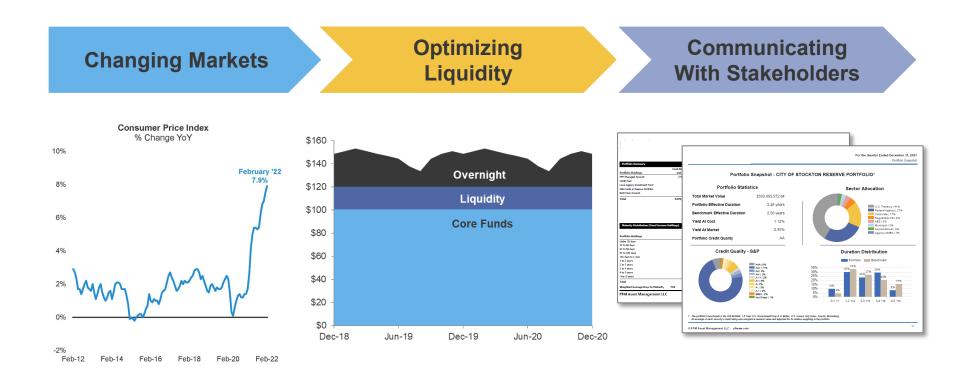


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Datnilza Metz
Sales & Relationship Manager
PFM Asset Management LLC

#### **Session Description:**

Florida local governments are required to adhere to state statutes that lay the basis for a safe, best practice investment program. This session will provide a detailed look at Florida's investment statutes and how they have functioned through volatile markets. This session will incorporate the historical lessons learned to construct an investment policy using Florida's investment statutes.

#### **Challenges in Designing an Investment Program**



A well-designed investment program lays the foundation for a successful investment program.



#### The Challenge: Managing Uncertainty

#### **Changing Markets**

- 5 U.S. economic recessions (1980, 1981-2, 1990-1, 2001, 2007-9, 2020)
- 7 presidential administrations (4 Democrat, 3 Republican)
- 5 Federal Reserve Chairs
- 13 U.S. Treasury Secretaries
- U.S. Military operations (Libya, Grenada, Panama, Kuwait, Somalia, Bosnia, Kosovo, Afghanistan, Iraq)
- Many periods of geopolitical turmoil
- Stock Market crashes of 1987, 1997, 2000-1 and 2008-9
- ▶ 1980's Farm Credit System crisis
- 1982-84 Failure of Drysdale Lombard-Wall and Lion's Capital
- 1983 FNMA issues 1st CMO
- 1980-90's Savings and Loan crisis
- 1986 Tax Reform Act
- 1990 Bankruptcy of Drexel Burnham Lambert & Michael Milken conviction
- 1991 Bankruptcy of Pan Am/Eastern
- 1994 Orange County CA bankruptcy
- 1995 Barings Bank trading collapse
- 1997 Asian financial Crisis
- 1998 Russian financial crisis/default
- 1998 Failure of Long-Term Capital Mgmt.
- 1999 Introduction of the Euro

- 2000 Bursting of the dot-com bubble
- 2001 California energy crisis and bankruptcy of PG&E
- 2001 September 11 terrorist attacks
- 2001 Enron fraud and bankruptcy
- 2002 WorldCom bankruptcy
- 2005 Hurricane Katrina
- 2006 Collapse of Amaranth hedge fund
- 2007 Freezing of asset-backed CP mkt
- 2007 Florida SBA Pool freezes
- 2007-9 Sub-prime mortgage crisis and housing bubble
- 2008 Collapse of Bear Stearns
- 2008 Failure of Lehman Brothers, Washington Mutual and IndyMac Bank
- 2008 Primary Reserve money market fund "breaks the buck"
- 2008 Iceland systemic banking collapse
- 2008 Conservatorship of Fannie Mae and Freddie Mac
- 2008 LIBOR manipulation scandal
- 2008-12 TARP, TAF, TSLF, PDCF, IOER, AMLF, CPFF, TLGP, TAG
- 2008-14 Federal Reserve "quantitative easing" (QE)
- 2008 Bernie Madoff Ponzi scheme
- 2008-12 European banking & sovereign debt

- 2009-13 ECB's LTRO, EFSF
- 2009 Stanford Financial Ponzi scheme
- 2009 Bankruptcies of GM & Chrysler
- 2010 U.S. stock market Flash Crash
- 2010 Dodd-Frank Wall Street Reform Act
- Basel Bank accords of 1988, 2004-9, & 2010-13
- 2011 Fukushima nuclear disaster
- 2011 S&P's downgrade of U.S. Gov't.
- 2011 Collapse of MF Global
- 2011 Jefferson County AL bankruptcy
- 2012 Hurricane Sandy
- 2013 City of Detroit bankruptcy
- 2013 U.S. Government Shutdown
- 2014 Russian annexation of Crimea
- 2014 Russian financial & currency crisis
- 2015 Greece default on IMF loan
- 2015 Puerto Rico debt default
- 2015-16 Oil price collapse
- 2016 Brexit
- 2018-19 Chinese bond market deleveraging
- 2020 Coronavirus Pandemic
- ▶ 2021 Chinese developer Evergrande crisis
- 2022 US inflation hits 42 year high
- 2022 Russia Invades Ukraine
- 2023 SVB, First Republic Mid size bank failures
- 2023 Hamas Attack on Israel



# Investment Policy Design Framework



#### **Investment Policy Review Framework**

## PFMAM's Investment Policy Review Framework consists of three components:

**State Statutes** 

Association of Public Treasurers of US & Canada

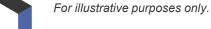
**GFOA Best Practices** 



#### **Section 218.415 Florida Statutes Requirements**

- 1. Scope
- 2. Investment Objectives
- 3. Performance Measurement
- 4. Prudence and Ethical Standards
- 5. Listing of Authorized Investments
- 6. Maturity and Liquidity Requirements
- 7. Portfolio Composition
- 8. Risk and Diversification
- 9. Authorized Investment Institutions and Dealers
- 10. Third-Party Custodial Agreements
- 11. Master Repurchase Agreement
- 12. Bid Requirement
- 13. Internal Controls
- 14. Continuing Education
- 15. Reporting

elaborate on Performance
Measurement, include the continuing
education requirement and consistent
reporting as per Section 218.415,
Florida Statutes



#### **APT US & C\* Investment Policy Requirements**

- Policy/Purpose
- Scope
- Prudence
- Objective (Safety, Liquidity, Yield)
- Delegation of Authority
- Ethics and Conflict of Interest
- Authorized Financial Dealers and Institutions
- Authorized & Suitable Investments
- Investment Pools/Mutual Fund Questionnaire
- Collateralization
- Safekeeping and Custody
- Diversification
- Maximum Maturities
- Internal Control
- Performance Standards
- Reporting
- Investment Policy Adoption
- Glossary

Based on PFMAM's review, the existing Investment Policy is missing two of the sections necessary to be certified by the APT US & C



#### **GFOA Investment Policy Best Practices**

- Scope and investment objectives
- Roles, responsibilities, and standards of care
- Suitable and authorized investments
- Investment diversification
- Safekeeping, custody, and internal controls
- Authorized financial institutions, depositories, and broker/dealers
- Risk and performance standards
- Reporting and disclosure standards

of the GFOA's best practice recommendations



For illustrative purposes only.

#### **Poll Question**

# Why Do Local Governments Need an Investment Statute?

A) Promotes Best Practices

- B) Encourages Strong, Written Policy
- C) Promotes Transparency
- D) All of the Above



# **Chapter 218.415, Florida Statute**



#### **Poll Question**

# What is covered by the policy?

A) Operating Funds

B) Bond Proceeds

C) Pension Funds

D) Trust Funds



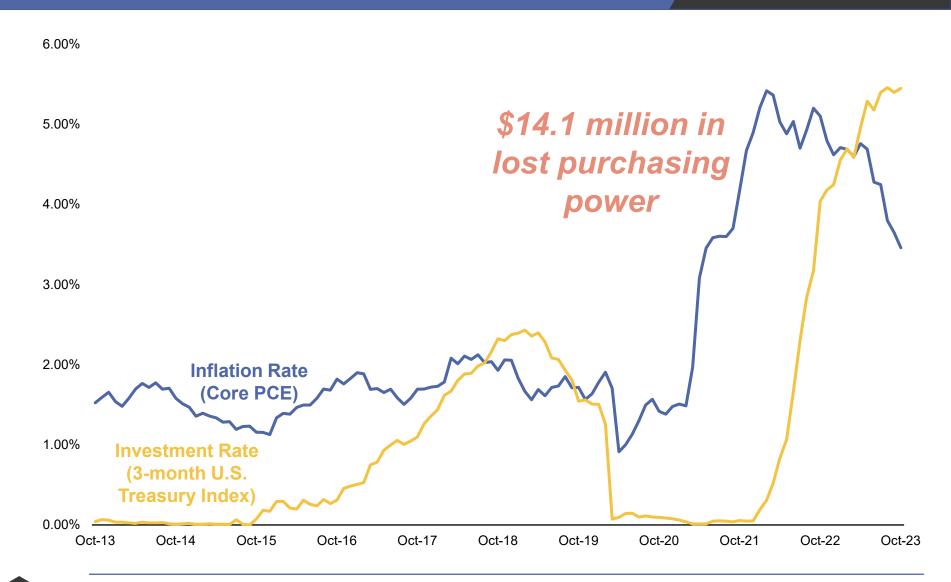
#### (1) SCOPE

The investment policy shall apply to funds under the control of the unit of local government in excess of those required to meet current expenses. The investment policy shall not apply to pension funds, including those funds in chapters 175 and 185, or funds related to the issuance of debt where there are other existing policies or indentures in effect for such funds.

#### (2) Investment Objectives

The investment policy shall describe the investment objectives of the unit of local government. Investment objectives shall include safety of capital, liquidity of funds, and investment income, in that order.

## **Erosion of Principal Purchasing Power Over 10 Years**



#### (3) Performance Measurement

The investment policy shall specify performance measures as are appropriate for the nature and size of the public funds within the custody of the unit of local government.

#### **Performance Measurement**

#### **CFA Institute's Benchmark Characteristics**

#### Identification and Explanation

 Benchmark is identified and agreed upon before implementing proposed portfolio strategy

#### Appropriate

Consistent with the portfolio's style

#### Measurable

Return is readily calculable

#### Unambiguous

Names and weights of assets are identifiable

#### Reflective of current investment options

 Close comparability between portfolio and selected benchmark

#### Accountable

Manager agrees that benchmark is appropriate

#### Investable

Possible to hold the benchmark



#### **Poll Question**

Which of the following is a characteristic of an appropriate benchmark?

A) Measurable

B) Ambiguous

C) Investable

D) Only A & C



#### **Government Best Practices: Using Total Return**

The Government Finance Officers
Association recommends that government
investors assess their investment portfolio
for performance and risk by comparing
the total return of the portfolio to carefully
selected benchmarks.

Total return provides a complete snapshot of the outcomes resulting from investment decisions since it measures the percent change in the value of a portfolio over a defined historical period.



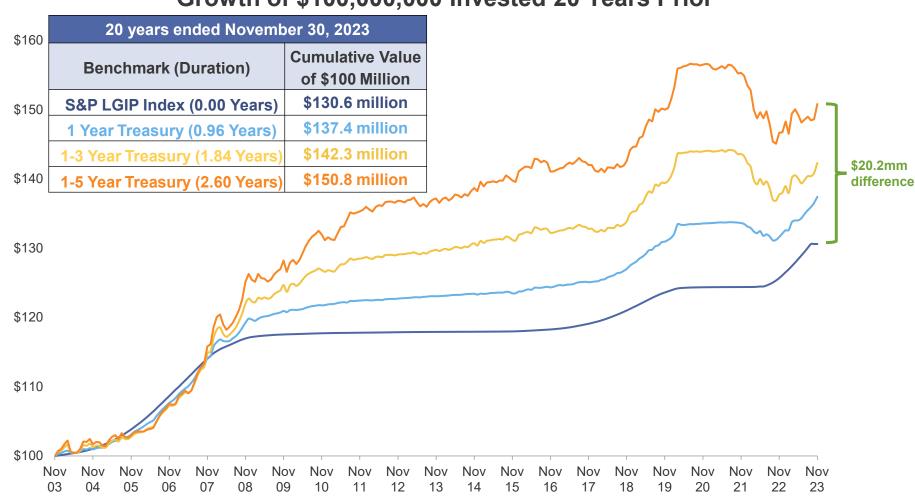
#### **Benchmark Examples**

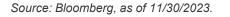
Category	Short-Term Benchmark¹	Long-Term Benchmark²			
Name	Standard & Poor's LGIP All Gross Yield	ICE BofAML US 1-3 Treasury			
Definition	Short-Term index that tracks the performance of AAAm and AAm Local Government Investment Pools (LGIPS).	Intermediate term index that tracks sovereign debt securities publicly issued by the United States Government carrying maturities between 1 and 3 years.			
Number of Constituents	60 Pools	94 Issues			
Assets Represented	\$247.7 billion	\$4.7 trillion			
Weighted Average Maturity/Duration	33 days (reset)	1.80 years			



#### **Historical Benefit of Increased Duration**

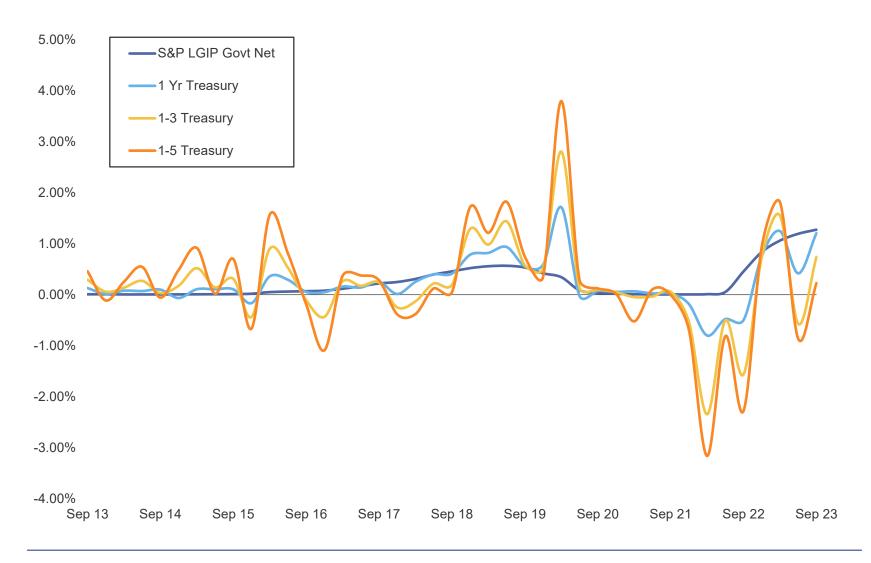
#### Growth of \$100,000,000 Invested 20 Years Prior





Millions

# **Benchmark Duration's Impact on Periodic Performance**





#### (4) Prudence and Ethical Standards

The investment policy shall describe the level of prudence and ethical standards to be followed by the unit of local government in carrying out its investment activities with respect to funds described in this section. The unit of local government shall adopt the Prudent Person Rule, which states that:

"Investments should be made with judgment and care, under circumstances then prevailing, which persons of prudence, discretion, and intelligence exercise in the management of their own affairs, not for speculation, but for investment, considering the probable safety of their capital as well as the probable income to be derived from the investment."

#### (5) Listing of Authorized Investments

The investment policy shall list investments authorized by the governing body of the unit of local government, subject to the provisions of subsection (16). Investments not listed in the investment policy are prohibited. If the policy authorizes investments in derivative products, the policy must require that the unit of local government's officials responsible for making investment decisions or chief financial officer have developed sufficient understanding of the derivative products and have the expertise to manage them. For purposes of this subsection, a "derivative" is defined as a financial instrument the value of which depends on, or is derived from, the value of one or more underlying assets or index or asset values. If the policy authorizes investments in reverse repurchase agreements or other forms of leverage, the policy must limit the investments to transactions in which the proceeds are intended to provide liquidity and for which the unit of local government has sufficient resources and expertise.

# What Investments are Allowed for Local Governments?

Security Type	Section 218.415 (16)  With Investment Policy	Section 218.415 (17) Without Investment Policy
Local Government Investment Pool	✓	✓
SEC Registered Money Market Funds	✓	✓
Deposits Accounts / Certificates of Deposit with QPDs	✓	✓
US Treasury Obligations	✓	✓
Federal Agencies & Instrumentalities	✓	
Government of Israel Obligations	✓	
US Government Bond Mutual Funds	✓	
Investments Approved by Governing Body	✓	

Source: State of Florida

# Investment Policy Maximum Sector Limit Comparison

Sector	Current Policy	New Draft Policy	Peer 1	Peer 2	Peer 3	Peer 4	Peer 5	
U.S. Treasuries	100%	100%	100%	100%	100%	100%	75%	
Federal Agencies	100%	75%	75%	80%	75%	80%	50%	
Supranationals	0%	10%	15%	0%	10%	25%	25%	
Certificates of Deposit	100%	60%	50%	50%	50%	50%	40%	
Commercial Paper	0%	50%	50%	25%	25%	50%	25%	
Corporates	Corporates 0% 50%		50%	25%	50%	50%	25%	
Asset Backed Securities	0% 25% 2		25%	0%	25%	25%	10%	
Agency Mortgage - Backed Securities	100%	25%	25%	20%	25%	25%	0%	
Municipals	100%	25%	25%	25%	25%	25%	0%	
Money Market Funds	100%	50%	50%	50%	50%	50%	80%	
Local Government Investment Pools	100%	100%	50%	50%	75%	50%	40%	

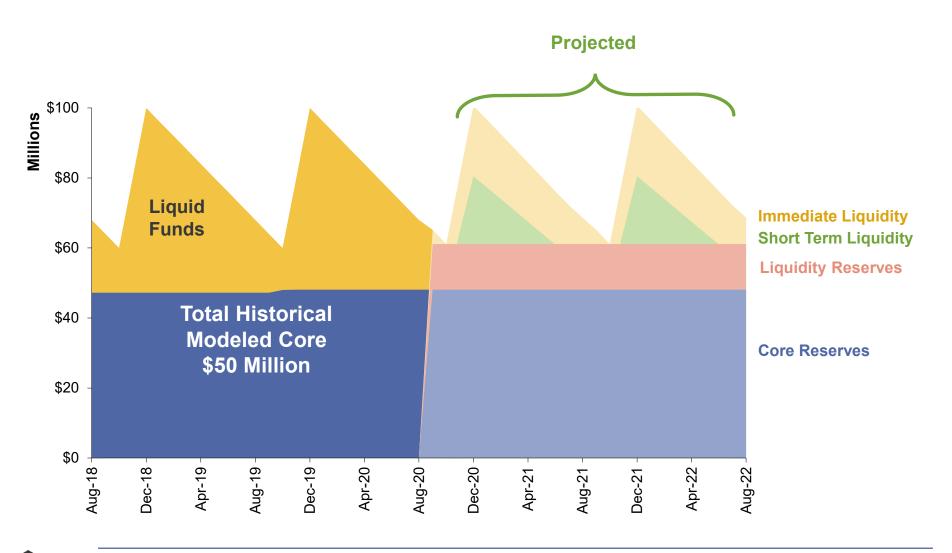


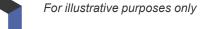


#### (6) Maturity and Liquidity Requirements

The investment policy shall require that the investment portfolio is structured in such manner as to provide sufficient liquidity to pay obligations as they come due. To that end, the investment policy should direct that, to the extent possible, an attempt will be made to match investment maturities with known cash needs and anticipated cash-flow requirements.

# **Cash Flow Analysis is Used to Optimize Portfolio Segmentation**





# **Portfolio Segmentation** and Strategy Considerations

Portfolio Segment	Strategy Consideration	Potential Characteristics
Immediate Liquidity	Daily Liquidity	<ul> <li>Bank operating cash</li> <li>Money Market Funds</li> <li>Local Government Investment Pools (LGIPs)</li> </ul>
Short Term Liquidity	Up to 1 Year Laddered Maturities	<ul> <li>Short-term fixed rate investments</li> <li>Commercial Paper</li> <li>LGIP Term Investments</li> <li>Certificate of Deposits</li> </ul>
Liquidity Reserves	Short Duration Target (6 Months-2 Year Duration)	<ul> <li>Highly liquid securities</li> <li>Securities/sectors with active secondary markets</li> <li>Limited structure/optionality risk</li> <li>Allocation to high-quality, diversified credit securities to maximize the income potential of short duration needs</li> <li>Commercial paper, ABS, corporate notes</li> </ul>
Core Reserves	Longer Duration Target (1-3, 1-5 years)	<ul> <li>Diversified across high-quality asset classes</li> <li>Realize the benefits of a positively sloped yield curve</li> <li>Greater focus on income generation (lower liquidity profile)</li> <li>Corporate notes, MBS, federal agencies</li> </ul>

#### **Poll Question**

Investment maturities should be matched with which of the following?

A) Known Cash Needs

B) Anticipated, but Uncertain Needs

C) Both A & B

D) None of the Above



#### (7) Portfolio Composition

The investment policy shall establish guidelines for investments and limits on security issues, issuers, and maturities. Such guidelines shall be commensurate with the nature and size of the public funds within the custody of the unit of local government.

#### **Table of Permitted Investments**

Sector	Sector Maximum (%)	Per Issuer Maximum (%)	Minimum Ratings Requirement	Maximum Maturity	
U.S. Treasury  GNMA  Other U.S. Government Guaranteed (e.g. AID, GTC)	100%	100% 40% 10%	N/A	5.5 years	
Federal Agency/GSE: FNMA, FHLMC, FHLB, FFCB Federal Agency/GSE other than those above	75%	40% 10%	N/A	5.5 Years	
Supranationals where U.S. is a shareholder and voting member	10%	5%	AAA	5.5 Years	
Corporates	30%	5%	A-	5.5 Years	
Municipals	25%	5%	A-	5.5 Years	
Agency Mortgage-Backed Securities (MBS)	25%	40%	N/A	5.5 Years	
Asset-Backed Securities (ABS)	25%	5%	AAA	5.5 Years	



For illustrative purposes only.

#### **Table of Permitted Investments**

Sector	Sector Maximum (%)	Per Issuer Maximum (%)	Minimum Ratings Requirement	Maximum Maturity	
Non-Negotiable Certificate of Deposits and Savings Accounts	50%	None, if fully collateralized	None, if fully collateralized.	2 Years	
Commercial Paper (CP)	30%	5%	A-1	270 Days	
Repurchase Agreements (Repo or RP)	40%	20%	A-1	90 Days	
Money Market Funds (MMFs)	100%	25%	AAAm	N/A	
Local Government Investment Pools	50%	25%	AAAm	N/A	



For illustrative purposes only.

#### (8) Risk and Diversification

The investment policy shall provide for appropriate diversification of the investment portfolio. Investments held should be diversified to the extent practicable to control the risk of loss resulting from overconcentration of assets in a specific maturity, issuer, instrument, dealer, or bank through which financial instruments are bought and sold. Diversification strategies within the established guidelines shall be reviewed and revised periodically, as deemed necessary by the appropriate management staff.

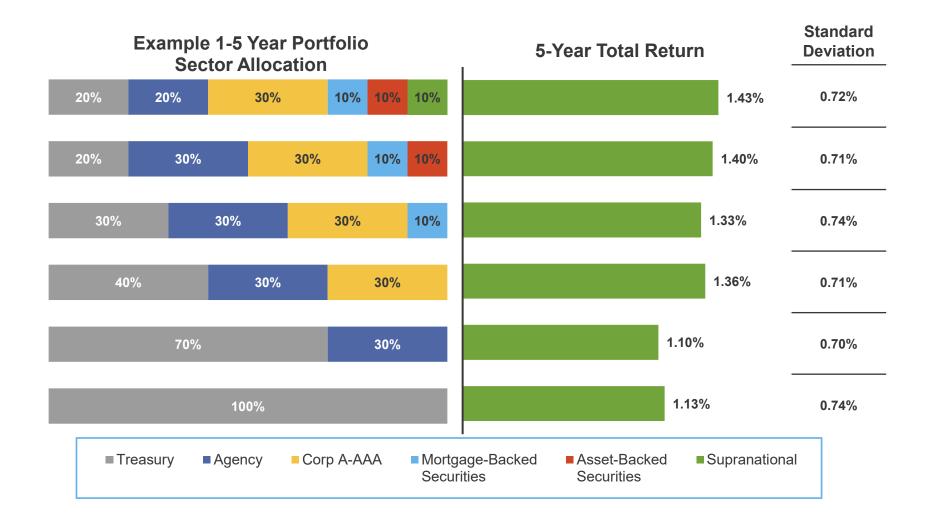
### Annual Return BofA Merrill Lynch 1-5 Year Indices

2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
8.73%	11.66%	5.81%	5.10%	5.85%	1.24%	3.79%	1.52%	2.19%	2.24%	1.84%	6.33%	5.41%	0.34%
8.63%	6.95%	5.43.%	3.66%	3.16%	1.14%	2.12%	1.20%	1.70%	1.62%	1.83%	5.83%	4.38%	-0.18%
7.45%	5.68%	4.17%	3.36%	2.45%	0.47%	1.49%	1.12%	1.24%	1.46%	1.79%	4.59%	4.25%	-0.64%
6.81%	5.56%	3.61%	3.36%	1.97%	0.40%	1.30%	0.98%	1.12%	1.40%	1.71%	4.20%	3.64%	-0.86%
5.65%	5.00%	3.54%	2.89%	1.63%	0.06%	1.30%	0.97%	1.12%	1.29%	1.52%	3.80%	3.35%	-0.88%
4.41%	2.53%	3.27%	2.62%	1.38%	0.03%	1.24%	0.93%	1.09%	0.86%	1.16%	3.78%	3.22%	-1.10%
-1.94%	0.23%	1.85%	1.92%	0.91%	-0.19%	0.95%	0.89%	0.16%	0.65%	0.82%	3.65%	2.76%	-1.56%

U.S. Treasury Federal Agency Corporate AAA-A Municipal Supranational AAA-AA MBS U.S. ABS Index AAA



# Potential Benefits of Diversification: Increased Expected Return and Decreased Risk





# (9) Authorized Investment Institutions and Dealers

The investment policy should specify the authorized securities dealers, issuers, and banks from whom the unit of local government may purchase securities.

#### **Financial Institutions**

24

Primary Dealers for the New York Federal Reserve Bank 117

Qualified Public Depositories in Florida

3,378

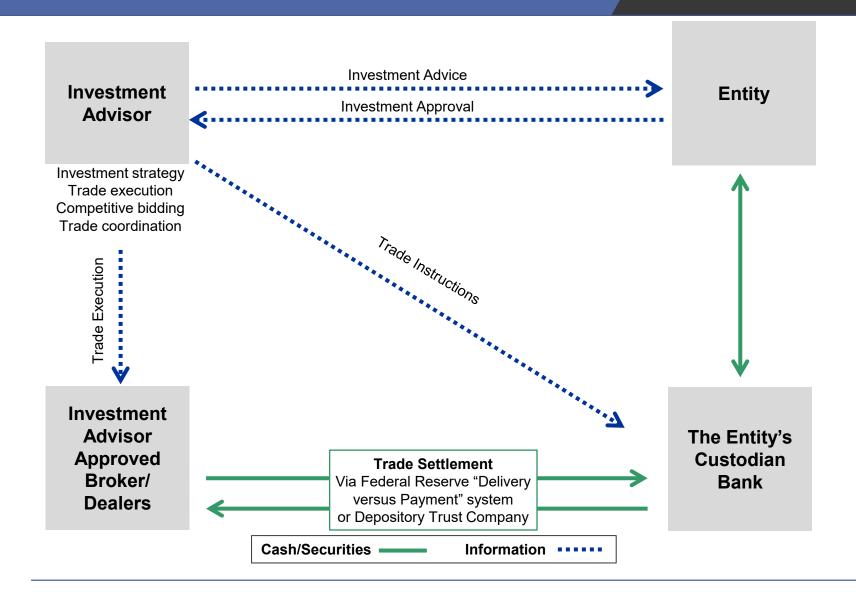
FINRA Registered Securities Firms



# (10) Third Party Custodial Agreements

The investment policy shall provide appropriate arrangements for the holding of assets of the unit of local government. Securities should be held with a third party; and all securities purchased by, and all collateral obtained by, the unit of local government should be properly designated as an asset of the unit of local government. No withdrawal of securities, in whole or in part, shall be made from safekeeping, except by an authorized staff member of the unit of local government. Securities transactions between a broker-dealer and the custodian involving purchase or sale of securities by transfer of money or securities must be made on a "delivery vs. payment" basis, if applicable, to ensure that the custodian will have the security or money, as appropriate, in hand at the conclusion of the transaction.

# **Using a Third-Party Custodian**





# (11) Master Repurchase Agreement

The investment policy shall require all approved institutions and dealers transacting repurchase agreements to execute and perform as stated in the Master Repurchase Agreement. All repurchase agreement transactions shall adhere to the requirements of the Master Repurchase Agreement.

# (12) Bid Requirement

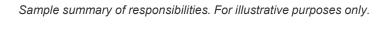
The investment policy shall require that the unit of local government's staff determine the approximate maturity date based on cash-flow needs and market conditions, analyze and select one or more optimal types of investment, and competitively bid the security in question when feasible and appropriate. Except as otherwise required by law, the bid deemed to best meet the investment objectives specified in subsection (2) must be selected.

# (13) Internal Controls

The investment policy shall provide for a system of internal controls and operational procedures. The unit of local government's officials responsible for making investment decisions or chief financial officer shall establish a system of internal controls which shall be in writing and made a part of the governmental entity's operational procedures. The investment policy shall provide for review of such controls by independent auditors as part of any financial audit periodically required of the unit of local government. The internal controls should be designed to prevent losses of funds which might arise from fraud, employee error, misrepresentation by third parties, or imprudent actions by employees of the unit of local government.

# **Job Duties**

Summary Responsibilities	External Investment Manager	City Manager	Chief Financial Officer	Finance Director (Investment Officer)	Deputy Finance Director	Treasurer	Chief Accountant
Strategies and policies	Recommends investment strategies & changes to policy	N/A	Reviews and approves strategies as part of Investment Committee	Reviews and approves strategies	Reviews and approves strategies as part of Investment Policy	Designs strategies and policies	N/A
Supervision	N/A	N/A	N/A	Responsible for overall supervision of strategies, external reporting & internal controls	Approves purchases and sales of investments, outgoing wires and internal reports	Reviews and approves transactions for Deputy Finance Director	N/A
Forecasting	Advises and informs investment officer(s) relative to economic conditions and trends	N/A	Conducts Periodic Reviews	Evaluates current economic conditions, relative to interest rate levels and the general direction of interest rates	Reviews and Approves economic reports relative to general direction of interest rate movements	Forecasts expected cash outflows and inflows to meet investment strategies and ongoing cash flow needs	N/A
Reporting	Prepares monthly, quarterly investment reports	Reviews reports prior to City Commission meetings	Reviews investment reports  • Monthly  • Quarterly	Reviews reports from external Investment Manager.  Reviews specialized monthly internal reports	Reviews reports from external Investment Manager .  Quarterly reports are submitted to the Investment Committee.	Prepares specialized internal monthly reports	Reviews specialized monthly internal reports
Compliance	Includes compliance with investment policy as part of reports  Reports non- compliance to Finance Director and Deputy Finance Director	N/A	Report items concerning compliance as related to the investment policy	Reviews external and internal reports & documents to ensure compliance  Approves quarterly and annual investment report  Reports non-compliance to City Investment Committee and City Commission as deemed necessary	Reviews external and internal reports & documents to ensure compliance  Certifies quarterly investment report  Reports non-compliance to Director	Reviews reports, documents and investment policy  Prepares quarterly investment report	N/A



# (14) Continuing Education

The investment policy shall provide for the continuing education of the unit of local government's officials responsible for making investment decisions or chief financial officer. Such officials must annually complete 8 hours of continuing education in subjects or courses of study related to investment practices and products.

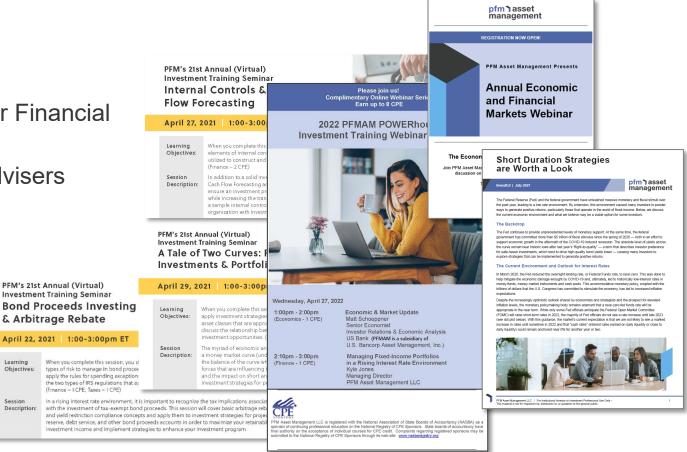
## **Continuing Education**

- ► GFOA
- ► FGFOA
- CFA Institute
- Association for Financial **Professionals**

Learning

Objectives:

Investment Advisers





# **Poll Question**

How many hours of Continuing Education are required under this section?

A) 6 hours

B) 8 hours

C) 10 hours

D) 12 hours



# (15) Reporting

The investment policy shall provide for appropriate annual or more frequent reporting of investment activities. To that end, the governmental entity's officials responsible for making investment decisions or chief financial officer shall prepare periodic reports for submission to the legislative and governing body of the unit of local government, which shall include securities in the portfolio by class or type, book value, income earned, and market value as of the report date. Such reports shall be available to the public.

# Communication with Stakeholders: Reporting

#### **Daily Reporting**

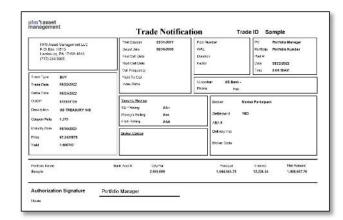
- Daily balances as of close of business prior day
- Transaction history and pending transactions
- Trade tickets
- Timely updates on portfolio changes and markets

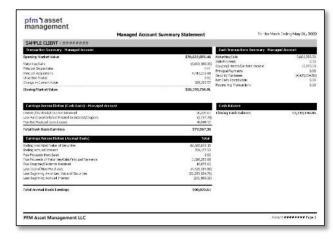
#### **Monthly Reporting**

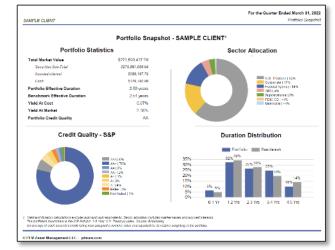
- Detailed description of holdings
- Summary of realized and unrealized earnings
- Transactions
- GASB 31, 40 compliant reporting data

#### **Quarterly and Annual Reporting**

- Quarterly and annual performance reports
- Quarterly economic review and outlook
- Board-level reports on assets, participants, transactions









# (24) Investment Decisions

- (a) As used in this subsection, the term "pecuniary factor" means a factor that the governing body of the unit of local government, or in the absence of the existence of a governing body, the respective principal officer of the unit of local government, prudently determines is expected to have a material effect on the risk or returns of an investment based on appropriate investment horizons consistent with applicable investment objectives and funding policy. The term does not include the consideration of the furtherance of any social, political, or ideological interests.
- (b) Notwithstanding any other law, when deciding whether to invest and when investing public funds pursuant to this section, the unit of local government must make decisions based solely on pecuniary factors and may not subordinate the interests of the people of this state to other objectives, including sacrificing investment return or undertaking additional investment risk to promote any nonpecuniary factor. The weight given to any pecuniary factor must appropriately reflect a prudent assessment of its impact on risk or returns.

# **Brief Sector Review**



#### **Fixed Income Sectors**



Government

Treasuries
Federal Agencies
Supranationals
Municipals



Securitized

Agency Mortgage-Backed
Asset-Backed



Credit

Corporate Notes
Commercial Paper
Certificates of Deposit



#### **Cash Alternatives**

Money Market Funds
Local Government
Investment Pools



#### **Sector Focus: Treasuries**



#### Government

#### **Treasuries**

Federal Agencies
Supranationals
Municipals



#### Securitized

Agency Mortgage-Backed
Asset-Backed



#### Credit

Corporate Notes
Commercial Paper
Certificates of Deposit



#### Cash Alternatives

Money Market Funds
Local Government
Investment Pools

#### What are Treasuries?

Securities issued directly by and backed by the full faith and credit of the U.S. Government Maturities range from short-term to 30 years

Types: Treasury Bills, Notes, Bonds, floating rate notes, STRIPS, TIPS and SLGS

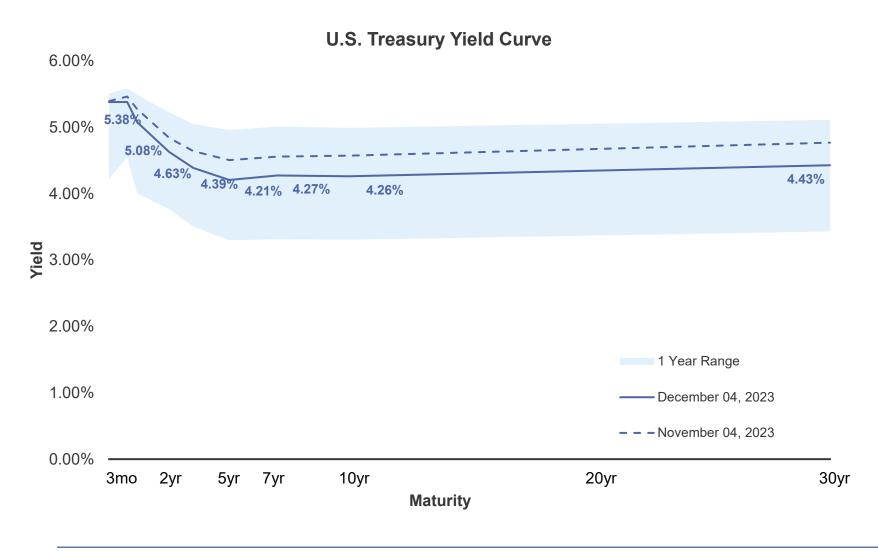
#### **Potential Benefits:**

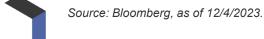
- largest segment of the U.S. bond market
- considered "risk-free"

- highest liquidity
- available in large segments



## **Treasury Yield Curve**





### **Sector Focus: Federal Agencies/GSEs**



#### Government

**Treasuries** 

**Federal Agencies** 

Supranationals

Municipals



#### Securitized

Agency Mortgage-Backed
Asset-Backed



#### Credit

Corporate Notes
Commercial Paper
Certificates of Deposit



#### Cash Alternatives

Money Market Funds
Local Government
Investment Pools

#### What are Federal Agencies?

Securities issued by agencies of the U.S. Government and U.S. Government-Sponsored Enterprises (GSEs), most of which are not explicitly backed by the full faith and credit of the U.S.

Frequent issuers: Fannie Mae, Freddie Mac, Federal Home Loan Banks, Federal Farm Credit Bank

Types: discount notes, coupon notes/bonds, callables and floating rate notes

#### **Potential Benefits:**

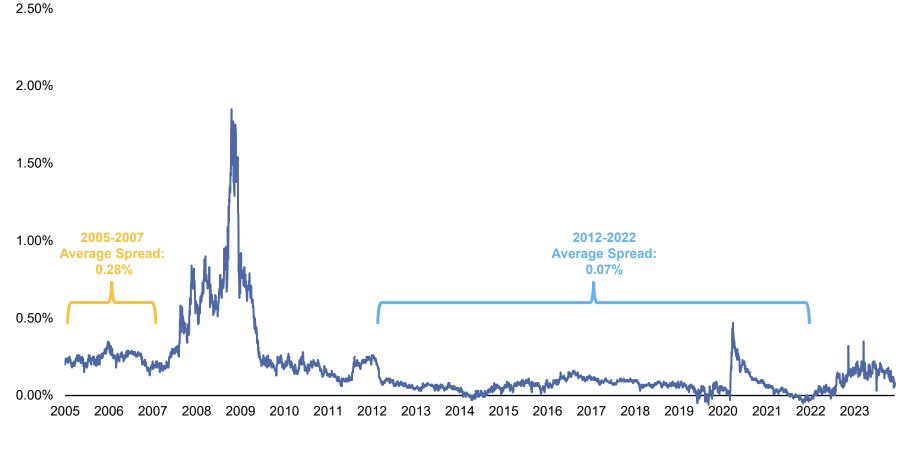
- incremental yield over Treasury securities
- high liquidity

- diversification
- high credit quality



# Federal Agency Debt Market: Historic Spreads vs US Treasuries

#### 1-3 Year Federal Agency vs. U.S. Treasury Spread



-0.50%



# **Poll Question**

# Which sector is considered "risk-free"?

A) Federal Agencies

B) Municipals

C) Local Government Investment Pools

D) U.S. Treasuries

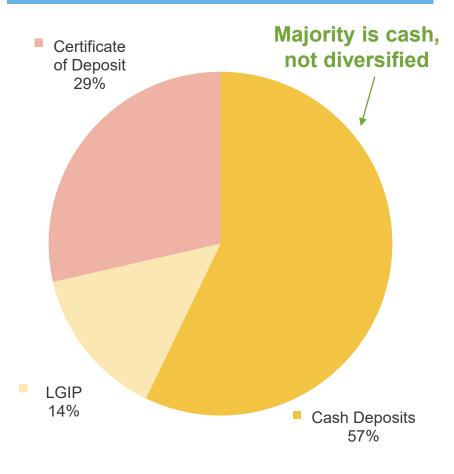


# Putting the Policy into Practice



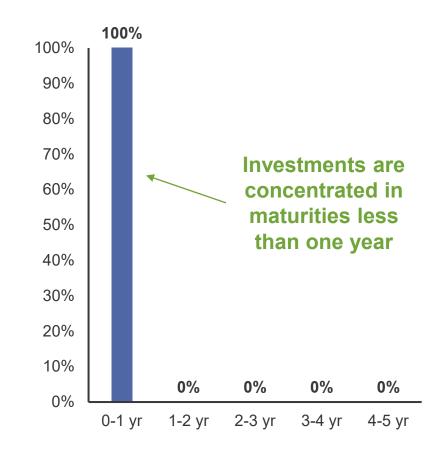
## **Example: Current Investments**

#### **Sector Allocation**



#### **Duration Distribution**

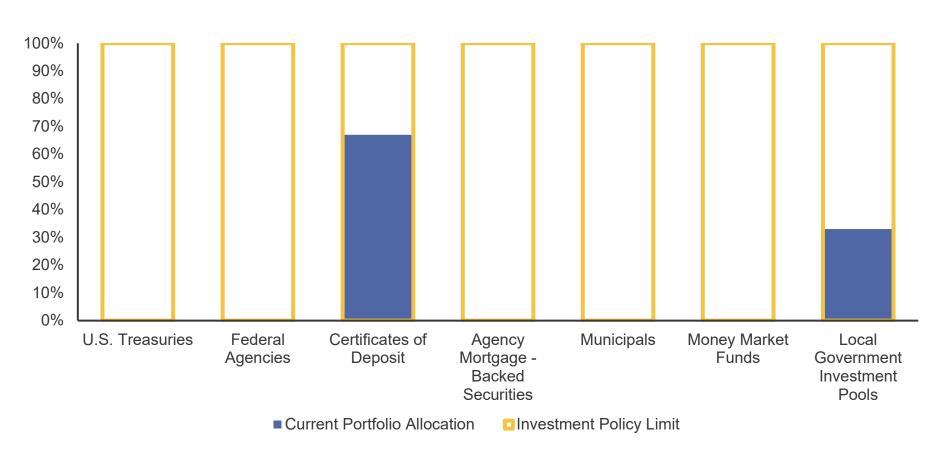
Portfolio Duration: 0.30 years





# **Investment Policy Constraints versus Actual Utilization**

# Investment policy has additional sectors that are not being utilized



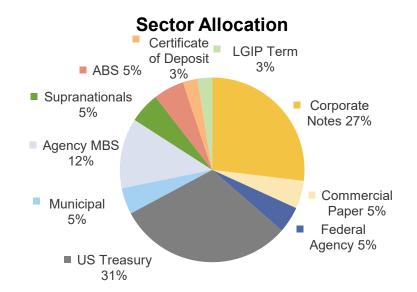


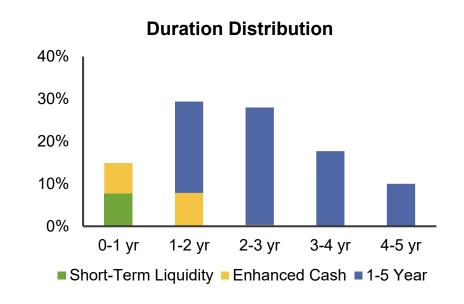
## **Snapshot of Investment Program Goals**

## **Total Program Characteristics**

- High quality
- Well-diversified
- Designed to protect assets
- Designed to maximize income

Portfolio Statistics						
Duration	1.97 years					
Gross Yield	5.47%					
Average Credit Quality	AA					

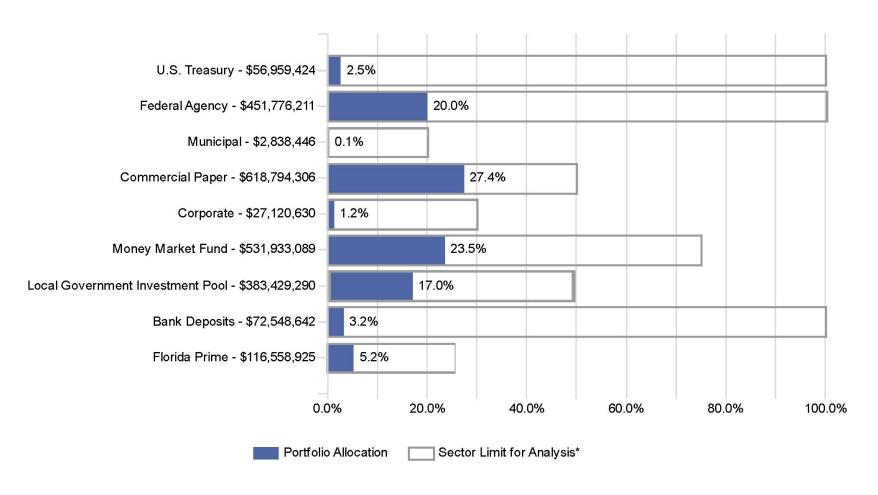






## **Asset Allocation Snapshot**

#### **Sector Allocation Analytics**





For illustrative purposes only.

# Potential Benefits of a Well-Designed Investment Policy & Program

- An investment policy codifies procedure and allows for better program management and transparency
- Creating and formally adopting an investment policy allows for greater diversification
- Regular reviews and updates allows you to maintain a discipline strategy to navigate volatile markets
- Provides the tools to help optimize your long and short-term investments while maintaining adequate liquidity
- Keeps all stakeholders updated and informed about the investment program and the factors that affect it



# Thank you!

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# Important Disclosures

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