

## Cash & Investment Management: Building a Strategy for Predictable Income

MTAW 2023 Fall Conference

## Today's Agenda











**Investment Basics** 

# KEY TERMS & COMMON INVESTMENTS





Liquidity: The ease with which an investment can be bought or sold at stated market value and considering transaction costs

Maturity: The stated date upon which the issuer must pay the principal balance to security holders

- Bullet
- Periodic





Principal/Face Amount: The stated value of an investment (AKA par)





#### **Optional Redemption or "Call" Date:**

- Issuers may retain right to pay off bonds at face or premium value – PRIOR to stated maturity
- Some securities require issuer make bondholders "whole" if exercising optional redemption
  - ✓ Pay bondholders present value of remaining interest

Call Date: July 1, 2021

2 years' foregone interest

Maturity Date: July 1, 2023





Coupon: The stated interest rate issuers pay bondholders

Fixed Variable



Yield: The measure of investor return considering all net cash flows while holding security

May or may not be guaranteed Yield MAY NOT equal coupon





#### Premium

 Amount paid for a security <u>in excess</u> of face or par value

#### **Discount**

 Amount paid for a security <u>below</u> face or par value





#### Market Value

 Prevailing or current trading value of a security

#### **Book Value**

 Accounting value for a security (price paid +/premium or discount)

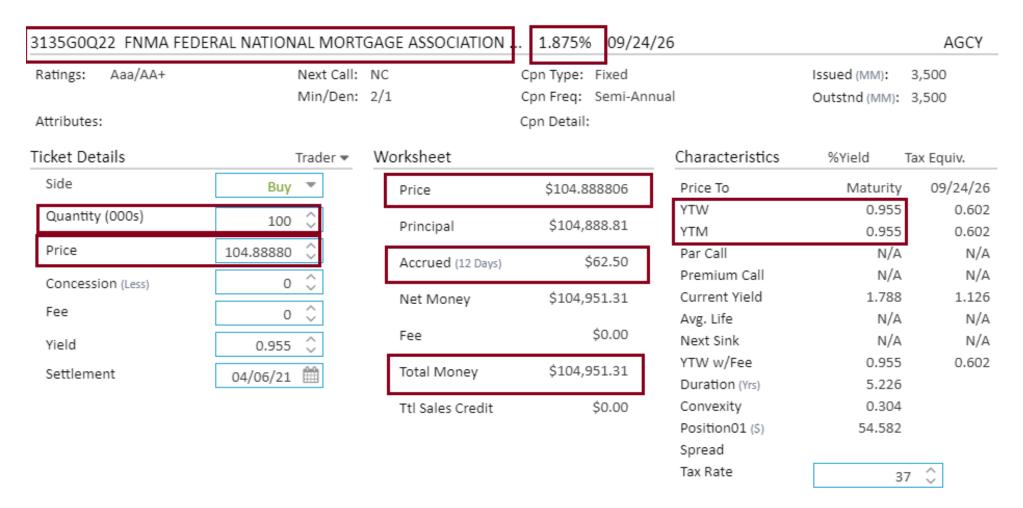


## Learning the Lingo: Putting it all Together

Details		Call Schedule					Ratings	
CUSIP	3135G0Q22	Callable	No				Moody's / S & P	Aaa AA+
Form	Book Entry	Par Call					Underlying	
Cpn Freq	Semi-Ann	Sinkable	No				Short Term	
Cpn Type	Fixed	Coupon Dates	Yes				onore remi	
Benchmark		Extraordinary Call	No				Issuance	
Cpn Detail		Putable	No				Issue Date	09/23/2016
Day Count	30/360	Avg. Life					Dated Date	09/27/2016
Attributes		Step Schedule	No				Orig. Settle	09/27/2016
	AI-	Put/Call Minimum					First Cpn	03/24/2017
Sinker Survivor Ont	No	Notice Pre-Re Date					Int Acc Date	09/27/2016
Survivor Opt	No	Make Whole Call	No				Issue Price	99.367000
		IVIAKE WHOIE CAII	INO				Issue Yield	1.945
		All 🔻					Amt Issued	3,500,000,000
							Outstanding Size	3,500,000,000
		Date Side Qty	Price	Yield	Sprd	ldx	Min Amt	2
		CEP Eval.	104.471	1.03	N/A		Denom Amt	1
		04-01-21 D 8	104.470	1.03	N/A			
		04-01-21 B 8	104.470	1.03	N/A			



#### Learning the Lingo: Putting it all Together













#### **Common Investment Risks**

#### Liquidity Risk:

 The risk, or inability, to convert an asset into cash quickly with minimal transaction costs

#### **Credit Risk:**

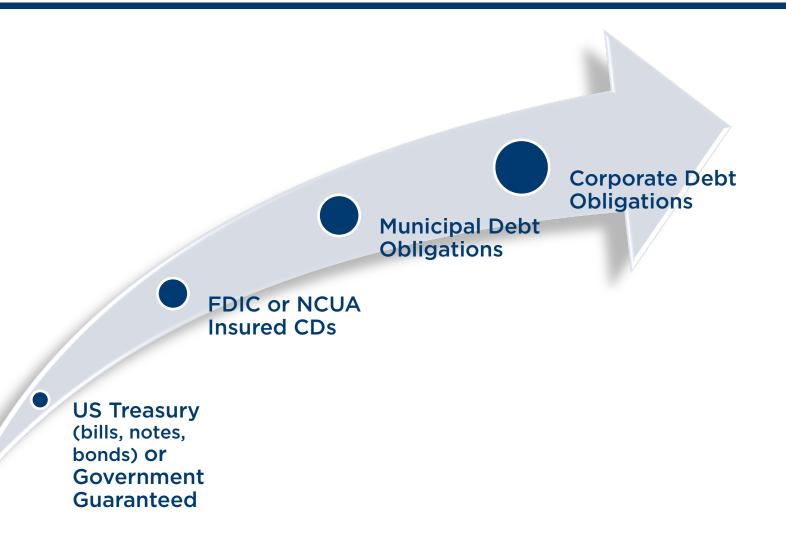
 the risk that an issuer or other counterparty to an investment will not fulfill its obligation(s)

#### Market/Interest Rate Risk:

 The risk that changes in interest rates will adversely affect value of investment



## Credit Risk: Lowest to Highest





#### Fixed Rate vs. Variable Rate

#### Fixed Rate:

 Predictable income & maturity schedule for budget

#### Variable Rate:

- Rate (value in some cases)
   may fluctuate
- Cannot predict income for budget



## Let's Talk!





### Market Players & Their Roles

**Broker** 

- Matches buyers & sellers
- Holds NO inventory
- Compensated via commission

Dealer

- Buys & sells as broker (agent) and for itself (principal)
- Keeps inventory
- Compensated via commission or "spread"

**Both Must** 

- Treat all parties fairly
- Provide certain disclosures
- Maintain suitability standard of care



## Market Players & Their Roles

#### **Investment Provider**

- Direct counterparty
- Often holds funds through maturity
- <u>Cannot</u> act as fiduciary
- Compensated via spread

#### **Registered Investment Adviser**

- Provides fee-based advice
- Can't charge commission or spread
- Must act as fiduciary
- Typically, does not serve as custodian





## Safekeeping & Custody

## Brokerage Custody

- Cash & securities held FBO client
- Referred to as "street name"
- Broker/dealer can lend client securities
- Your assets considered their assets, subject to creditor claims
- SIPC insured up to \$500,000, covers face value
- Likely no fees assessed
- May be able to trade with any broker/dealer



## Safekeeping & Custody

Independent Bank Custody

- Cash & securities held in your name
- Your assets, not likely subject to bank's creditors
- Can authorize lending, be compensated
- Can trade with any broker/dealer
- Investment adviser may receive limited authority to transact on your behalf
- Fee-based relationship





Cash & Investment Management

# CASH FLOWS & INCOME PROJECTIONS

### **Investment Program**

Cash & investment management = core financial function Building assets takes years, poor investing can create losses within days Reliable income source focused on preserving principal

Liquidity, cash balances for operations & capital projects

Governance for appropriate risk mitigation, transparency & continuity



## **Effective Cash Management**

#### **Forecast for Operational Funds**

Core vs. liquidity

Treasury management, banking analysis statements & investments

Build predictable income to avoid short-term borrowing and support budget

#### **Project Forecast**

Project timeline

Bond proceeds investing

Offset rising costs of goods/services & project delays



## **Budget & Project Planning**



#### Plan ahead

- Increases in costs of goods & services
- Increases in property values
- More income opportunities to support budgets



#### Create a cash management strategy

- Dovetail with long-range planning
- Avoid idle cash
- Avoid short-term borrowing or liquidating investments prior to maturity



#### Optimize Earnings: Manage Balances Efficiently





## **Cash Flow Forecasting**



Identifies liquidity needs in operational or project cash balances.



Uncovers cash shortfalls or irregularities.

Minimizes borrowing needs or liquidation of longer-term investments



Optimizes investment opportunities.

Put idle cash to work!



#### **Quick Cash Flow Model**

 Gather 2-3 years of monthly:

- ✓ Bank statements
- ✓ Receipts
- ✓ Disbursements
- Identify your "perfect storm"

Lowest 24-36 Month Bank Balance	\$8,
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Lowest Revenue Collection Month

Highest Expenditure Total Month

**Worst Case Liquidity Scenario** 



\$1,000,000

\$2,000,000

\$7,000,000



## **Cash Management**

#### Liquidity = actual cash or near liquid balances

• Funds can be invested: use pool, money market, or other 30-/60-day investments

#### Core = longer term reserve funds

- Funds should be invested with maturities to match anticipated project or major operational expenditures
- Potentially longer term, based on duration or maturity targets, investment policy

#### Project Funds Based on Draw Schedule

Invest debt proceeds based upon project timeline



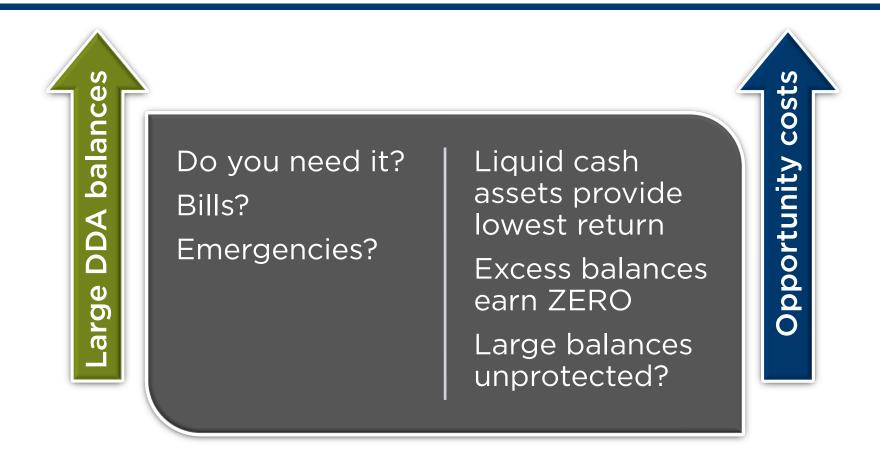
#### Cash Management: Analyze Bank Services

## Analyze bank services

- Are bank charges competitive?
- Are you using services you're paying for?
- How are you paying for services?

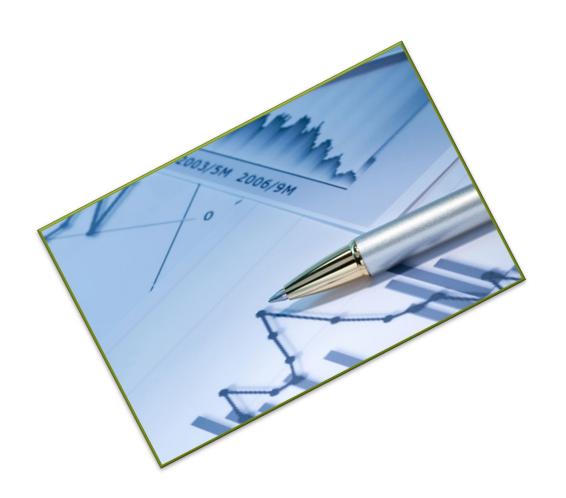


## Cash Management: The DDA Conundrum





## Reading Your Account Analysis Statement



#### **Balance summary**

Ledger vs. collected vs. investable balance

#### **Results summary**

• Earnings credit vs. analyzed fees

#### Bank service detail

 Review services & charges at least annually



# **Balances or Sweep?** How to Choose

IF	THEN
<ul> <li>Earnings credit &gt; sweep/investment rates</li> </ul>	<ul> <li>MAY be better to pay fees with balances</li> </ul>
<ul> <li>Sweep or investments &gt; earnings credit</li> </ul>	<ul><li>Invest as much as possible</li><li>Pay bank fees</li></ul>
<ul> <li>More balance than needed for bank fees</li> </ul>	Sweep or invest excess balances



### Cash Management: Investments

# Investigate investment options

- Invest idle cash?
- For how long?
- Develop Investment Program





Investment Strategies

# SEEKING TO OPTIMIZE INVESTMENT RETURNS

#### **Interest Rates**

Fed funds rate initially expected to remain low through 2023

Persistent inflation tightening monetary policy to combat it

Additional rate increases?

What about potential rate decreases??



#### Inflation & Federal Funds Rate

#### Inflation

- Highest measures in 40 years
- Inflationary pressure leads to reduction in value of a dollar today & received in the future

# Consumer Price Index (CPI)

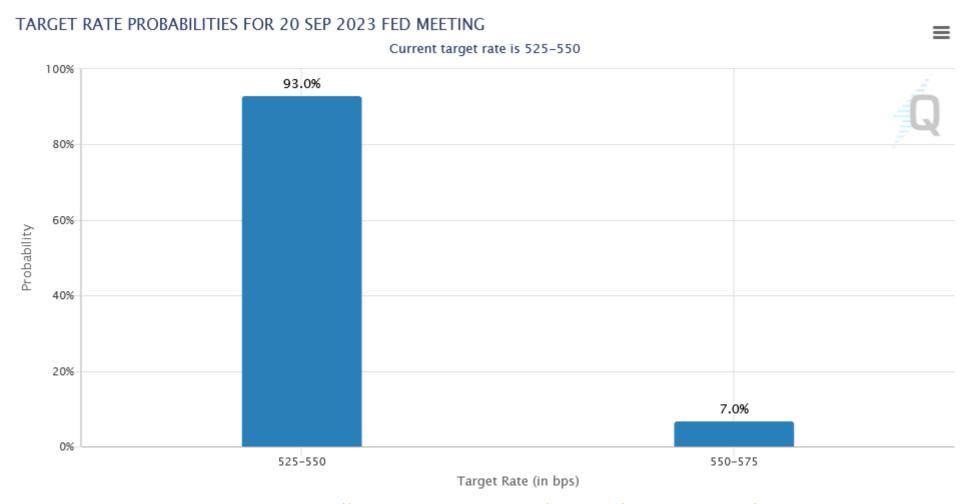
- Increased 3.18% (for 12 months ending 7/31/23)
- Up from 3.00% in June
- Delays in supply chain/rising energy prices

# Federal Open Market Committee (FOMC)

- <u>Fed funds range of 5.25% 5.50%</u> (last time 2007)
- Began the year at 4.25% 4.50%
- Increase in rates to reduce inflation



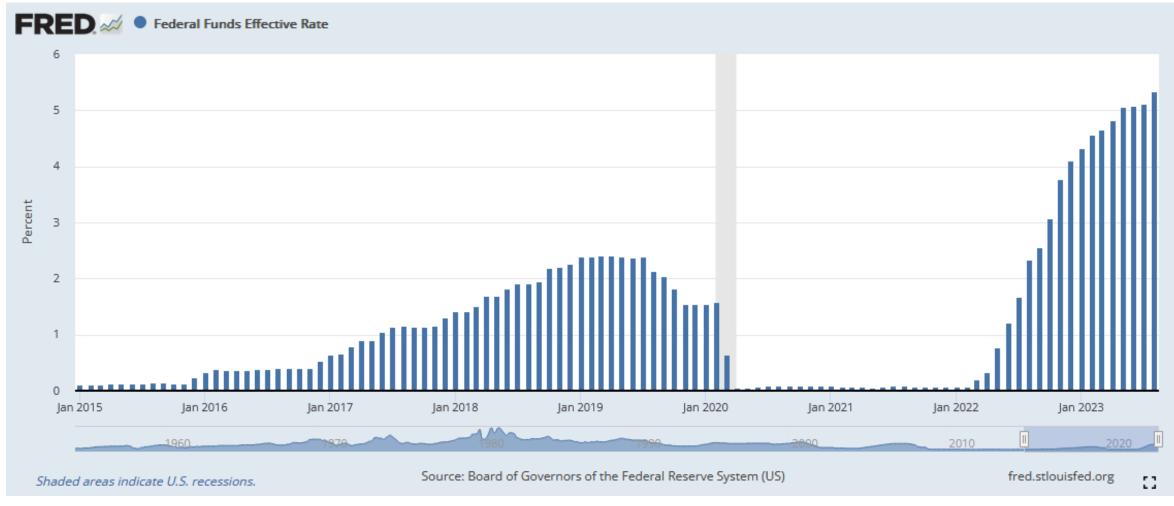
#### Market Trends: Federal Funds Rate





https://www.cmegroup.com/trading/interest-rates/countdown-to-fomc.html

#### Market Trends: Federal Funds Rate

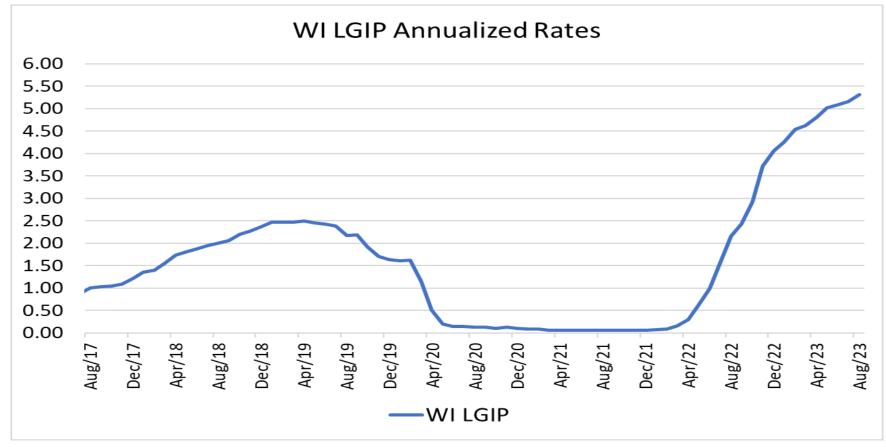




Source: St. Louis Fed

#### Market Trends: WI LGIP

#### Rising rates = cash management & investing opportunities





#### **Market Trends:** Fixed Income

Market Rate Comparison as of 09/07/2023

	Taxable Municipal Debt Obligations	Tax-Exempt Municipal Debt Obligations	US Agency	US Treasury	National CD Markets
30 Day	N/A	3.48	5.23	5.35	5.38
60 Day	N/A	3.63	5.32	5.40	5.35
90 Day	5.7	3.88	5.46	5.45	5.35
6 Month	5.5	3.9	5.49	5.52	5.60
12 Month	5.62	3.98	5.56	5.40	5.75
24 Month	5.5	4.17	5.75	4.95	5.55

Market rates, including local bank rates, subject to change and availability.

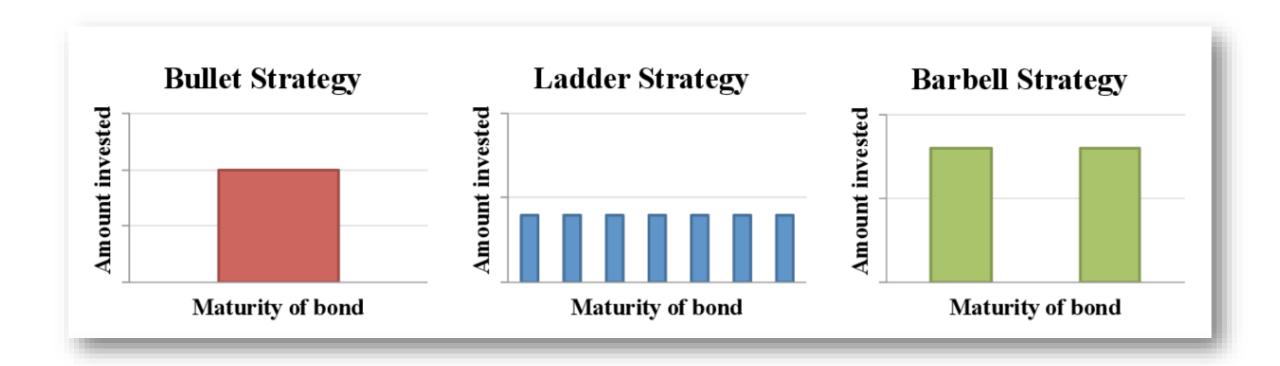
Municipal debt obligations, US Agency, and US Treasury rates based highest rates currently available on highly rated issuers.

CD Rates quoted reflective of banks and credit unions participating in FDIC or NCUA insurance coverage limits up to \$250,000.

Source: Bloomberg

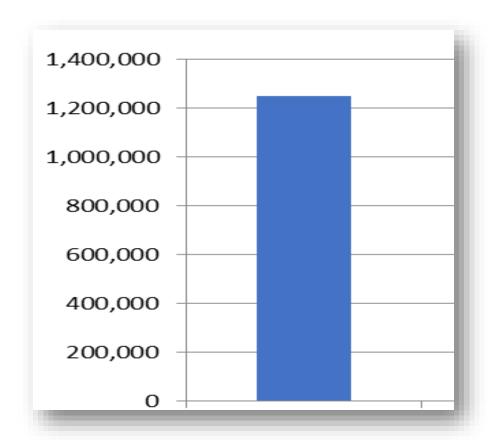


## **Basic Strategies**





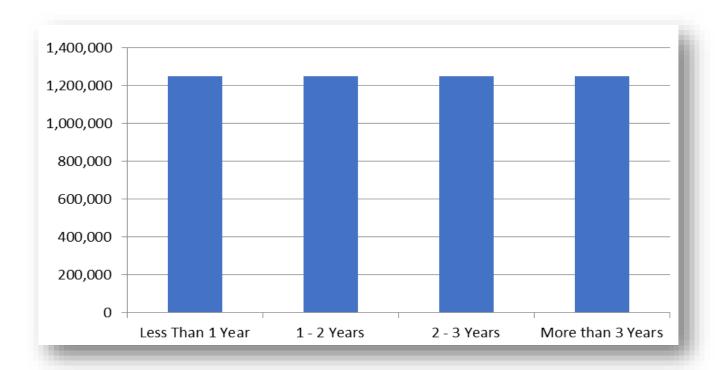
## **Bullet Strategy**



- Goal: Invest for an expense with generally known timing & dollar amount
- Solution: Bullet



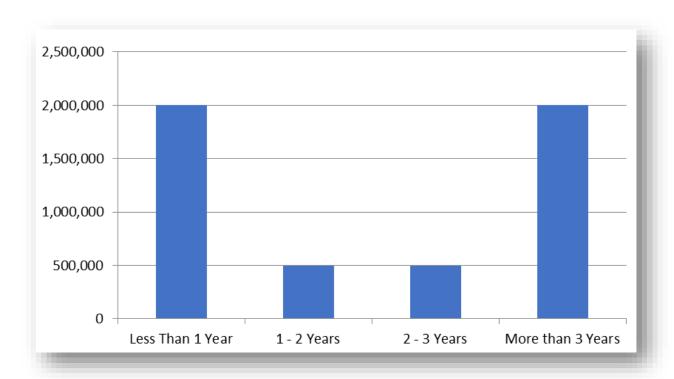
# **Laddered Strategy**



- Goal: Generate predictable income
- Solution: Bond ladder



# **Barbell Strategy**



- Goal: Capture rising short-term rates & reduce income volatility in future years
- Solution: Barbell



# Remember 3 Things

- Be aware of statutory limitations and key terms for investments
- Build your cash forecast, know your peaks and valleys - invest strategically without fear of "locking up" funds
- Leverage industry resources and professionals



# Let's Talk!





#### **Your Presenter**



Tami Olszewski, CPFIM Senior Investment Advisor tolszewski@ehlers-inc.com 262-796-6189



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