



Session 6: Understanding Cash Flow and Forecasting, Part 1 - Concepts

### INVESTMENT PLAN AND EXECUTION

CALIFORNIA DEBT AND INVESTMENT ADVISORY COMMISSION
CALIFORNIA MUNICIPAL TREASURERS ASSOCIATION

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#### Successful Investment Plan Aligns Appropriate Strategy for Purpose

- Immediate Reserves: <12 months</li>
  - T-bills/Agency discount notes/CD's
  - Commercial Paper
  - Local Government Investment Pools
- Semi-Permanent Reserves: 1-5
   Years
  - Treasury Notes/Agency Notes
  - Investment Grade Corporate Bonds
  - Taxable Municipal Bonds
  - Agency Mortgage Securities

- Permanent Reserves: 5+ Years
  - Investment Grade Corporate Bonds
  - Mortgage Pass Thru Bonds
  - Taxable Municipal Bonds
  - Treasury Notes / Agency Notes
- Pension / OPEB : Long Horizon
  - Corporate Bonds
  - Zero Coupon Treasury/Agency Bonds
  - Equities / Stocks



- Periodically Review & Update Your Investment Policy
  - Authorized investments
  - Diversification
  - Maturity
  - Asset class



# **EXECUTING INVESTMENT PLAN**

- Broker-Dealer Self-directed investments
  - You make all investment decisions
  - Sell investment products (Treasuries, Agencies, Corporates)
- Investment Advisor Investment management
  - Discretionary or Non-discretionary management
  - Separately managed accounts
  - Investment funds/pools



# WHEN TO UTILIZE?

Asset type	LGIP	Broker/Dealer Bank Products	Investment Advisor
Highly Liquid Funds < 9 month	<del>-</del>	4	
Medium Term Funds > 1.0 to 2.0 years		-	-
Core Funds > 2.0 years			4
Bond Proceeds (depends on use)			
Self Insurance Assets			4
OPEB/Pension Assets			-



#### POWER OF A LADDER

- Reinvest over time
- Similar to dollar cost averaging in stocks
- Works in all rate environments
  - Rates Fall: Locked in higher yields in longer maturities
  - Rates Stable: Longer maturities will enhance yield
  - Rates Rise: Reinvest at higher yields as bonds mature



### YIELD CURVE STRATEGIES

\$10 Million Portfolio

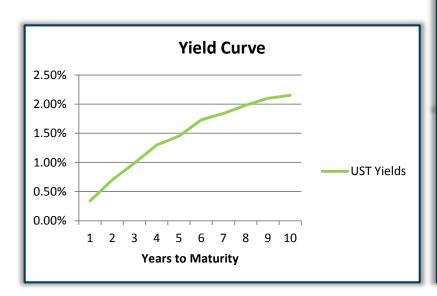
Average Maturity: 5 Years

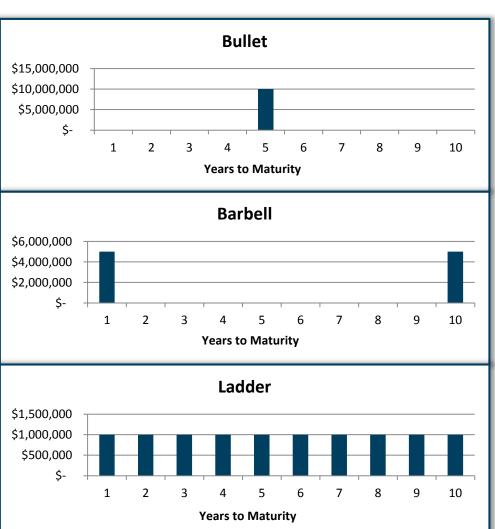
Portfolio Yield:

Bullet: 1.45%

Barbell: 1.24%

Ladder: 1.46%







### ROLLING DOWN THE YIELD

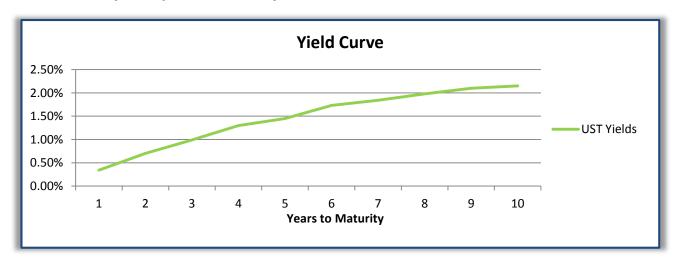
- In a positively sloped yield curve environment, as the bond ages, it will be repriced at a lower yield which leads to a higher price
- This enhances the price component of return leading to a total return that is greater than the purchase yield

Example: 5-year UST yield 1.45%Price: 99.68

Next year this bond will be a 4-year yielding 1.30% Price: 100.29

Price change: +.61
 Total return: +1.98%

Find the steepest part of the yield curve to maximize the roll-down strategy





## MAINTAIN LIQUIDITY

- Cash flow analysis
  - Keep it simple
  - Be realistic
- Remember unusual expenditures



### GENERATE INCOME

- Understand market realities
  - You can't "beat" the market over time
  - Extending maturity increases yield <u>and</u> interest rate risk
  - Match assets and liabilities to reduce risk and provide efficient investing
  - Remember, the market is efficient
- Seek best execution through competitive bids



#### INVESTMENT APPROACH

- Invest only in allowable investments
- Tailor strategy to meet investment goals
- Invest with a disciplined investment plan
- Thoroughly understand each investment



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