#### Fall Trustee School

Impact of Riding the Asset Allocation Rollercoaster

Russ Kamp, Managing Director, Ryan ALM, Inc. FLORIDA PUBLIC PENSION TRUSTEES ASSOCIATION SINCE 1984

- 44

#### **Importance of Defined Benefit Plans**

- Defined Benefit plans (DB) are the only true retirement program
  - DB plans provide a monthly annuity until death or the death of a designated beneficiary
- Defined Contribution plans (DC) were designed to provide supplemental retirement benefits
  - Asking untrained individuals to fund, manage, and then disburse a benefit through a DC plan is poor policy

#### **Defined Benefit Plans – Current Landscape**

- Regrettably, DB plans have been disappearing in the private sector for decades
- For myriad reasons, including government deregulation, about 10-15% of multiemployer plans are in difficult financial shape – but help is coming!
- Public pension plans still cover about 85% of public workers, but there are funding challenges among many states and local sponsors

#### **Current Asset Allocation Strategy— A Return Objective?**

- The asset consultant, actuary, and plan sponsor determine the appropriate ROA objective
- The objective is a long-term target >10 years
- The expected ROA may be accompanied by a substantial annual standard deviation
- Traditional approach has the pension plan's assets focused on achieving the singular ROA target
- Asset allocation is memorialized within the Investment Policy Statement (IPS)

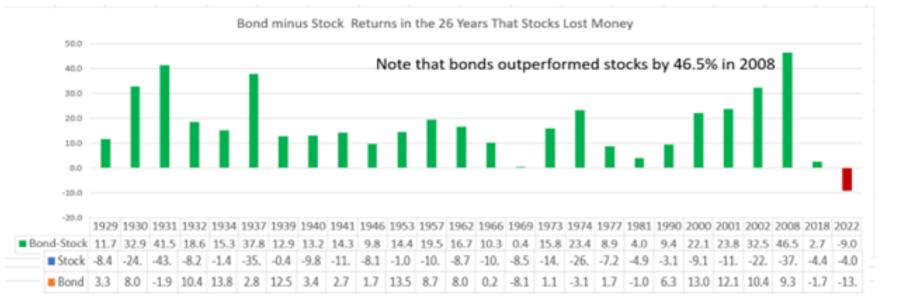
#### US Equity Investment Management – Performance (as of 11/22 using Russell indexes)

Style	YTD (%)	Last 3 Years (%)	Last 5 Years (%)
Mega Cap Core	-14.7	11.3	11.5
Large Cap Core	-14.1	10.6	10.7
Mid Cap Core	-12.6	8.7	8.5
Small Cap Core	-14.9	6.4	5.4
Micro Cap Core	-18.5	7.5	4.5

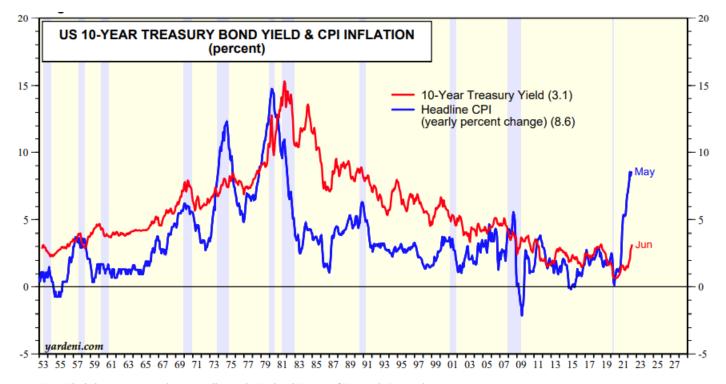
#### A New Day – Not Necessarily Better

Bonds have always outperformed stocks in down markets, until now

All are calendar years, except 2022 is the year ending 8/19/22

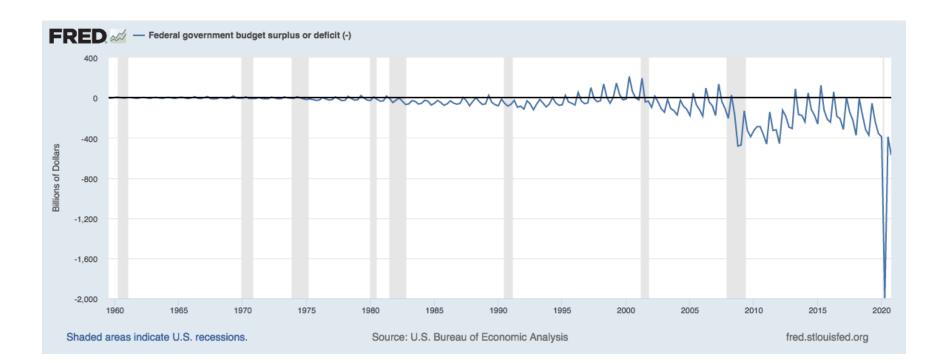


# **CPI vs. 10-year Treasury – Where's the Inflation Premium?**



Note: Shaded areas are recessions according to the National Bureau of Economic Research. Source: Board of Governors of the Federal Reserve System and Bureau of Labor Statistics.

#### **U.S. Federal Budget Deficit**

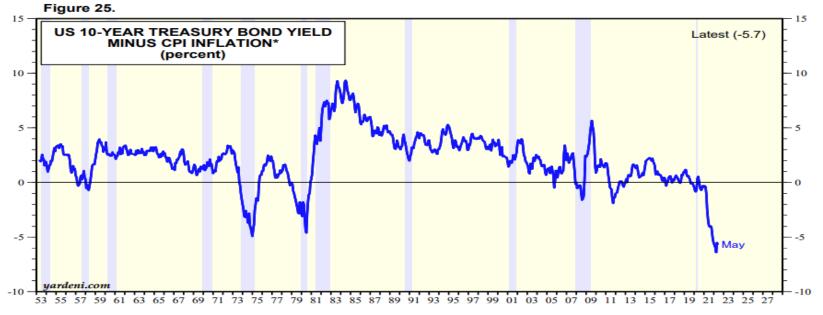


#### **Labor Force Participation Rate**



#### **Real Yields on 10-Year Treasury**

#### **Government Bond Yields**



\* Yearly percent change in CPI.

Note: Shaded areas are recessions according to the National Bureau of Economic Research. Source: Board of Governors of the Federal Reserve System and Bureau of Labor Statistics.

#### **Yield Curve Move in 2022**



#### **Traditional Asset Allocation?**



#### **Asset Allocation—An Alternative Approach**

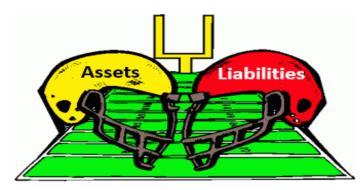
- Bifurcate the plan's assets into alpha and beta buckets
- The beta assets are used to meet benefits/expenses
- The alpha (growth) assets are used to meet future liabilities, as they can now grow unencumbered
- This asset allocation is focused on the plan's specific liabilities to drive investment structure
- As the funded ratio/status improves, plans should reduce risk
- This process helps to stabilize contribution expenses

#### **Pension Game – Identify the Objective**

• What's the Goal?

Secure Benefits in cost efficient and prudent risk manner

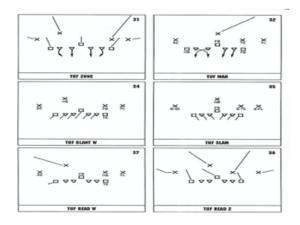
- What's the game plan?
   Assets outgrow Liabilities
   Focus on Liabilities (the Opponent)
- Achieving the ROA is no guarantee of funding success



### **Develop a Game Plan (Asset Allocation)**

Predicting each asset class ROA is risky... then what weight? Instead:

• Liability-focused asset allocation



#### **Asset Allocation Strategy—Liability Focus**

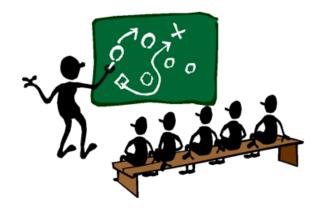
#### Install Custom Liability Index (CLI)

Calculates PV of liabilities + growth rate Evaluate plan's asset growth vs. liability growth *(Scoreboard: Assets versus Liabilities)* Provides data to calculate Funded Ratio/Status monthly Knowing the score essential to responsive Asset Allocation



#### Asset Allocation Strategy – Enhance Liquidity

Separate Liquidity assets from Growth assets
 Liquidity assets fund Benefits + Expense
 Growth assets grow unencumbered
 No need for Cash Sweep



#### **Contribution of Dividends to S&P 500 return**

- Dividends and dividends reinvested are a major contributor to the total return of the S&P 500
- Since 1940, 47% of the S&P 500's total return on a 10-year moving average was attributable to dividends
- On a 20-year moving average the contribution is an incredible 57%
- The study by Guinness Asset management includes all 500 S&P constituents—not just dividend payers
- Yet, plan sponsors tend to sweep cash from all accounts to meet benefits—This practice keeps growth assets from growing unencumbered

# **Liquidity Assets**

- Objective
  - Fund NET Liabilities (B+E) (C) chronologically
- Strategy
  - Cash Flow matching (CFM)
  - Bond portfolio that cash flow matches NET liabilities monthly
  - Provides alpha through composition of bond portfolio

### **Liquidity Assets—Benefits**

#### • Benefits

- Certainty of cash flows . . . Funds benefits
- Reduces funding costs by > 1+% per year
- Reduces volatility of the Funded Ratio/Status

 Buys time for Growth Assets to grow unencumbered

## **Cash Flow Matching**

- Methodology
  - Cost Optimization Model
  - Investment grade bond portfolio
  - Skewed to A/BBB+ ratings and longer maturities
  - Bond Math = Creates the lowest cost bond portfolio
  - Cash flow match and fund monthly Benefits + Expenses

### **Responsive Asset Allocation (AA)**

 As game evolves, AA responds to Funding Status As funding improves, add to liquidity assets Secures more benefits Buys more time



#### **Benefits of Responsive Asset Allocation**

- Promised benefit payments are now more secure
- Glide-path to improved funded status & lower risk
- Liquidity to pay benefit payments is improved
- Less volatility of the funded ratio

### **Key Takeaways**

- Defined Benefit Plans must be protected and preserved for the masses
- A fund is in good harmony if **Assets = Liabilities** 
  - Negative cash flow is not a bad development
  - The DB plan is successful if the last \$ pays for the last benefit
  - This is not an "inheritance" for the sponsor to pass on
- Adopt a new asset allocation process
- Changing market conditions enhance this new strategy