

How We Think About Interest Rates
April 2024

The Payden Economics Team



Every Morning, Bond Investors Wake Up And Think "Where's The 10-Year?"



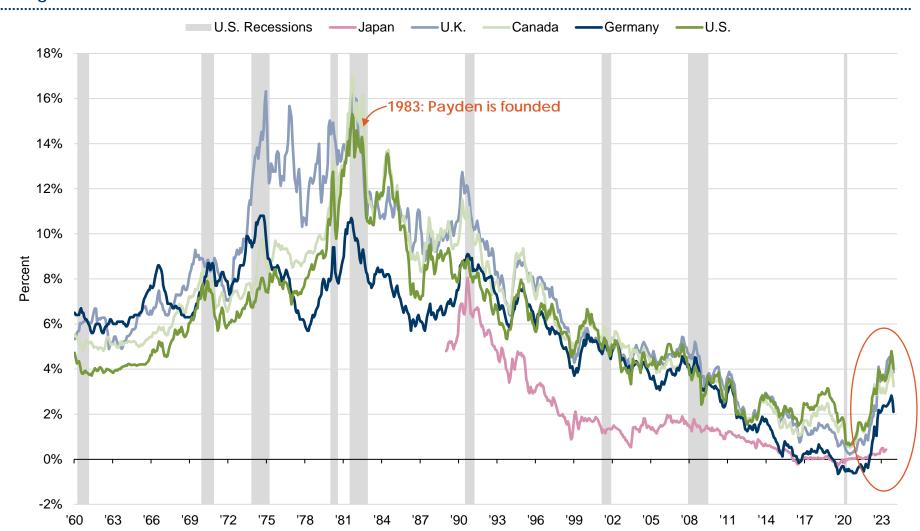
"Where's the 10-year?"

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The Global March Of Interest Rates Lower Has Taken A Pause...

Longer-Term Global Government Bond Yields



Source: OECD



The Three Components Of Longer-Term Interest Rates

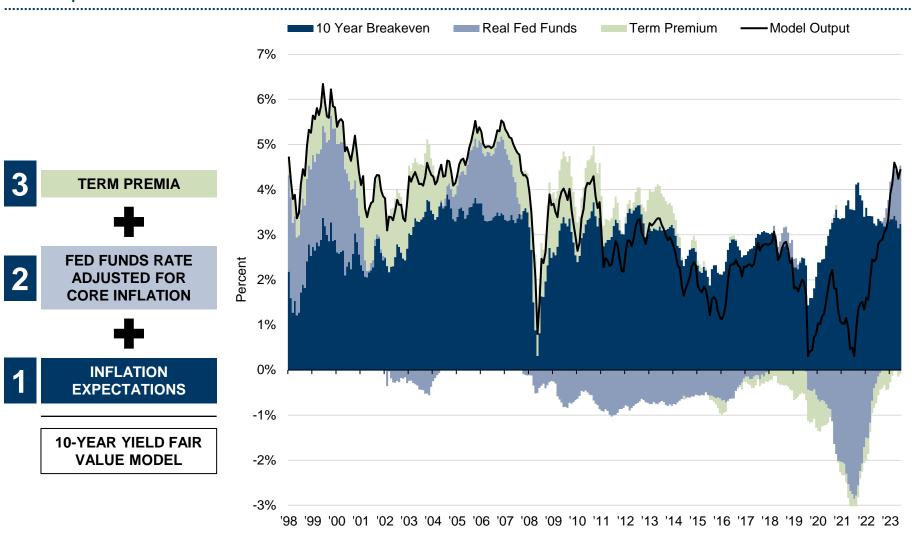
"....it is useful to decompose longer-term yields into three components: one reflecting *expected inflation* over the term of the security; another capturing the *expected path of short-term real*, or inflation-adjusted, interest rates; and a residual component known as *the term premium*."

- Ben Bernanke, former Chairman of the Federal Reserve



What Are The Building Blocks Of Longer-Term Rates?

Decomposition of the 10-Year Yield Fair Value Model

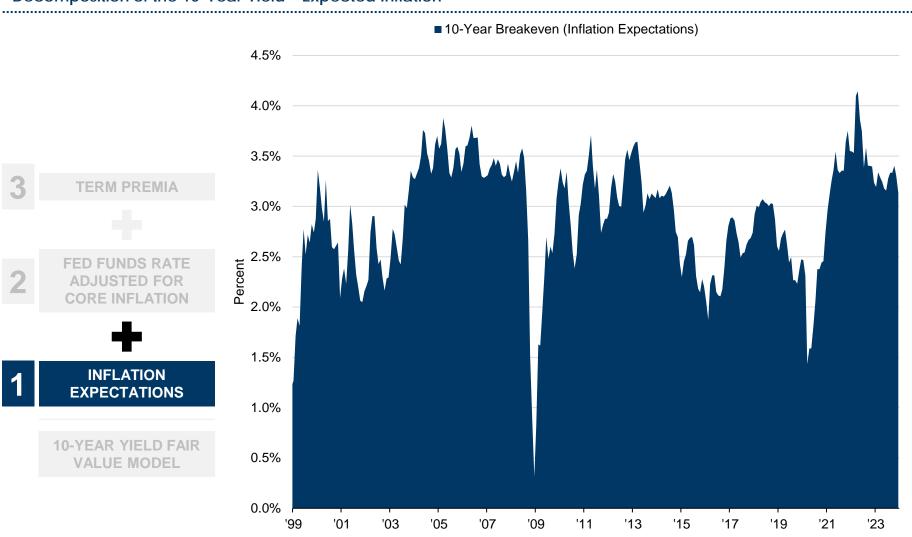


Source: Federal Reserve, Bureau of Economic Analysis, Bloomberg, Payden Calculations



Building Block 1: Expected Inflation

Decomposition of the 10-Year Yield - Expected Inflation

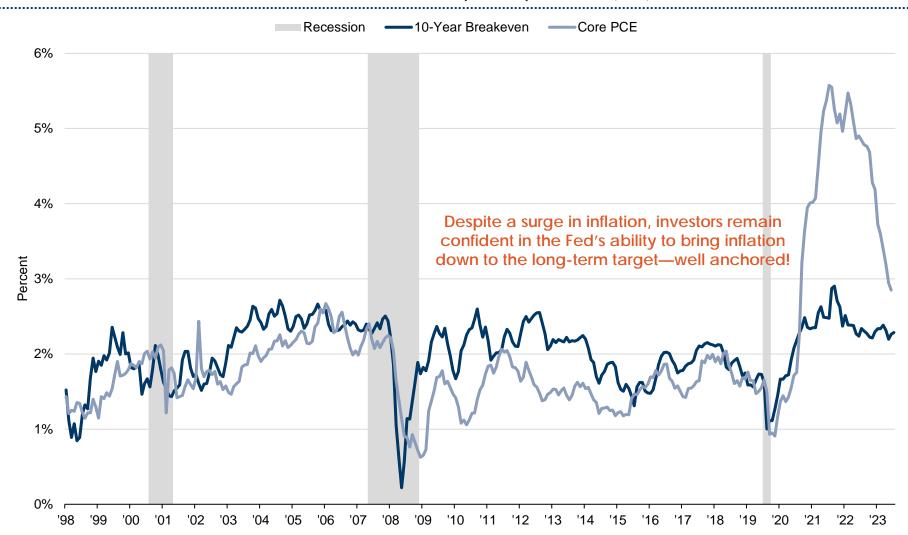


Source: Bloomberg, Payden Calculations



First, The Obvious One: Investors Would Like to Be Compensated For Inflation

U.S. 10-Year Breakeven Rate Versus Core Personal Consumption Expenditures (PCE) Price Index

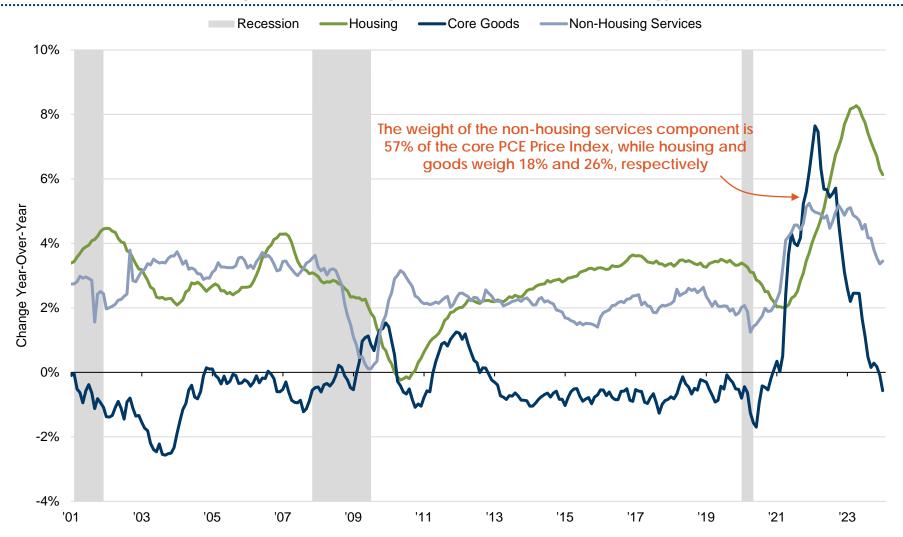


Source: Bloomberg, Bureau of Economic Analysis



Non-Housing Services: The Key to Slowing Core Inflation

Contribution of Goods, Housing, And Non-Housing Services in Core (Ex. Food & Energy) PCE* Index



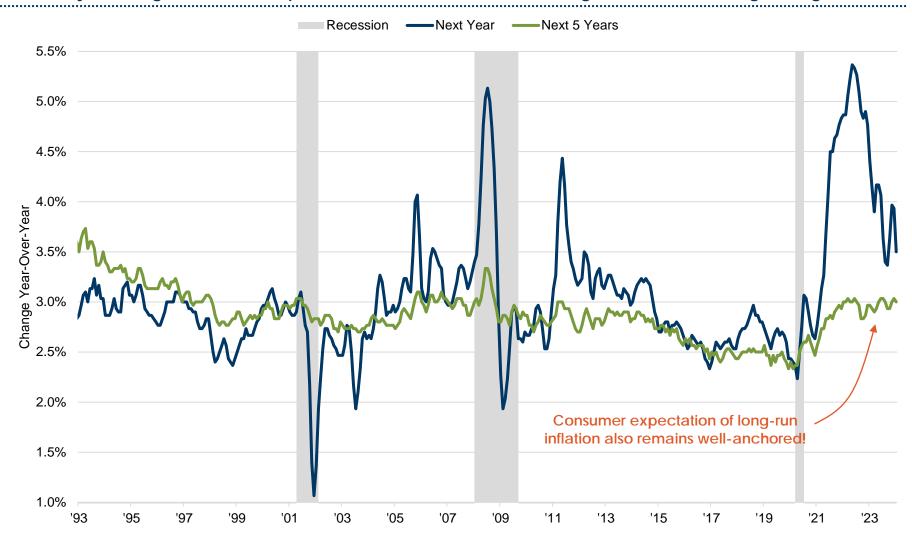
Source: Bureau of Economic Analysis, Bloomberg, NBER, Payden Calculations

 $*Personal\ Consumption\ Expenditures\ (PCE)$



Consumers Expect Volatile Inflation In The Near Term, But Stable In The Long Run

University of Michigan Consumer Expectation Of Inflation In Short And Long Run, 3-Month Moving Average

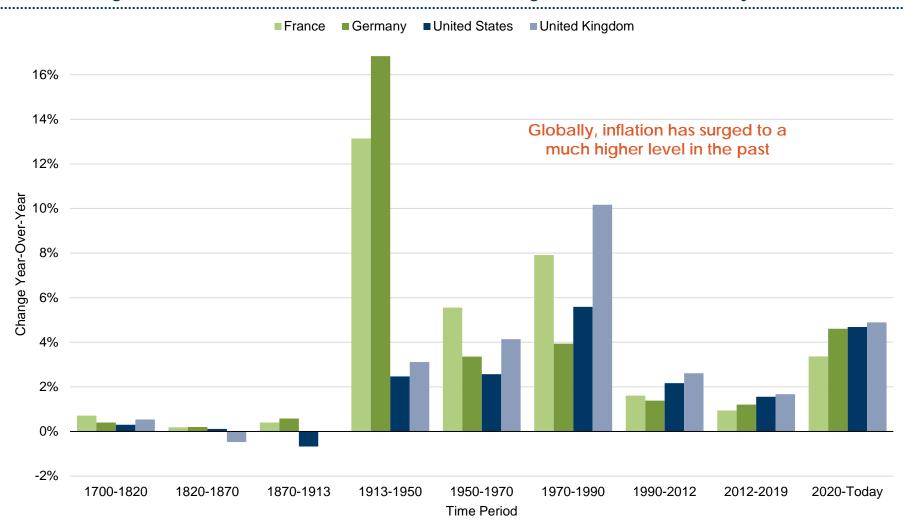


Source: University of Michigan



Instead Of A New Regime, We Might Just Be Returning To Normal

Inflation During Different Time Periods In the United States, United Kingdom, France and Germany

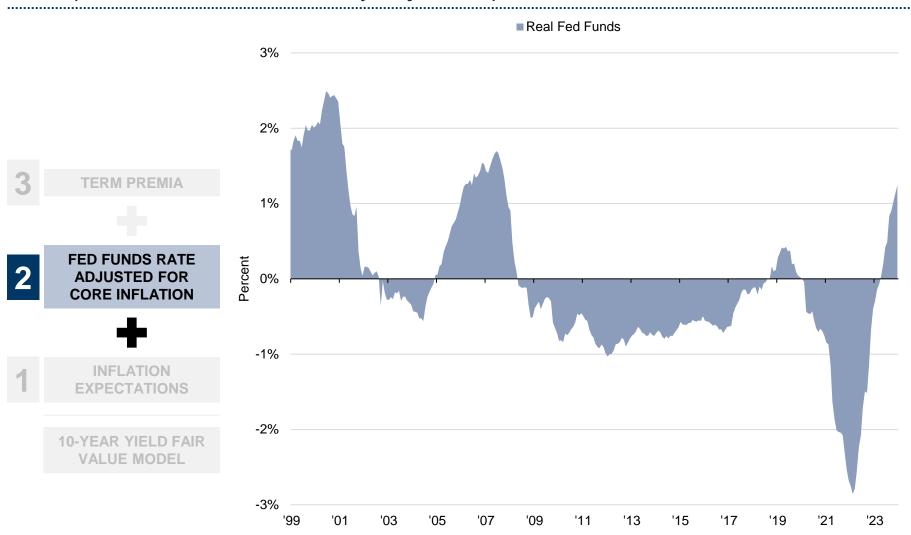


Source: Thomas Piketty, Eurostat, Bureau of Labor Statistics, Payden Calculations



Building Block 2: The Path Of Real Fed Funds Rates

Decomposition of the 10-Year Yield - Fed Trajectory, Real Output Growth

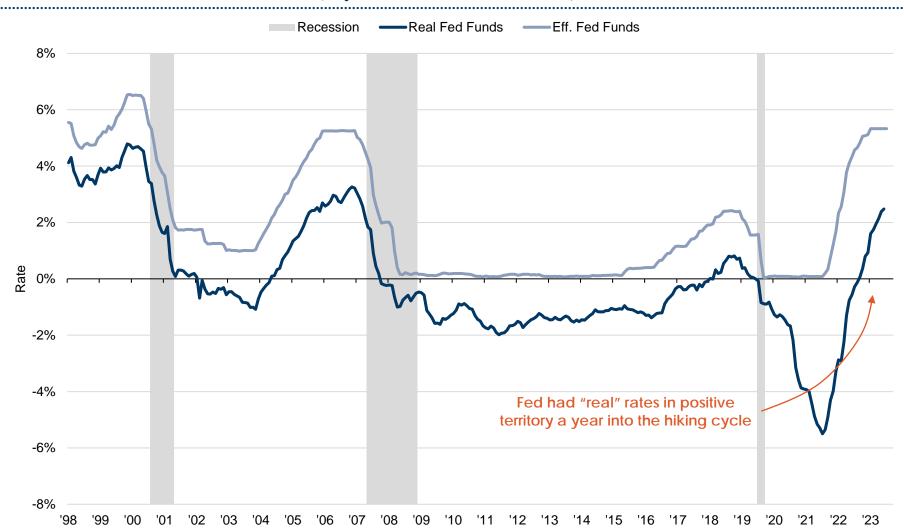


Source: Federal Reserve, Bureau of Economic Analysis, Bloomberg, Payden Calculations



The 'Real' Fed Funds Rate Becomes Restrictive After More Than a Year of Rate Hikes

Fed Funds Rate Versus "Real" Fed Funds (Adjusted with Core PCE Inflation)

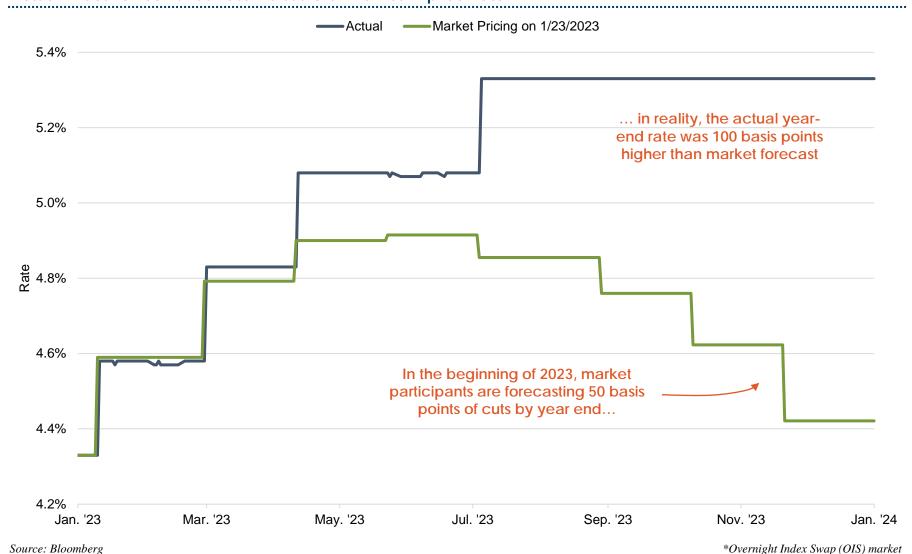


Source: Bloomberg, Bureau of Economic Analysis



Bond Investors: Often Wrong, But Never In Doubt!

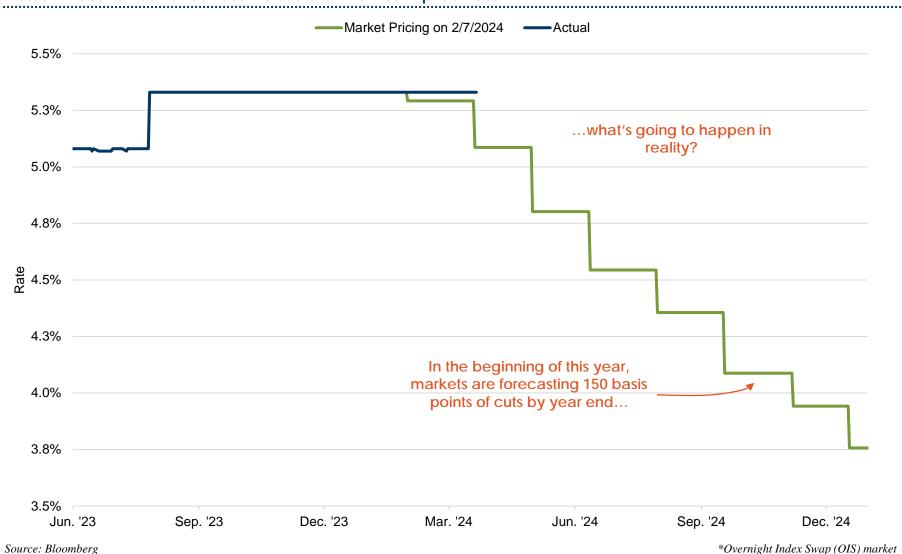
Actual Effective Fed Funds Rate Versus OIS* Market Implied Rate





Will 2024 Be Different? Market Pricing Began Aggressively Predicting Cuts

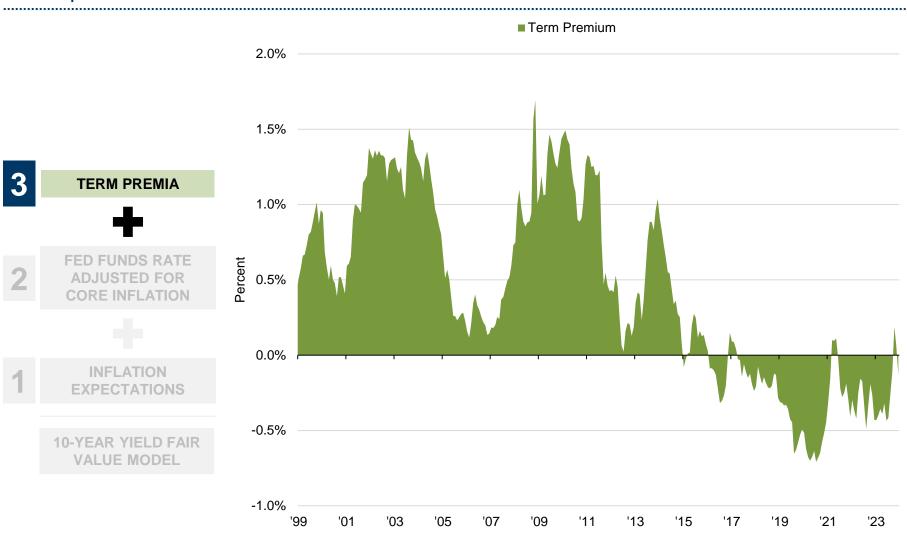
Actual Effective Fed Funds Rate Versus OIS* Market Implied Rate





Building Block 3: Term Premium

Decomposition of the 10-Year Yield Fair Value Model

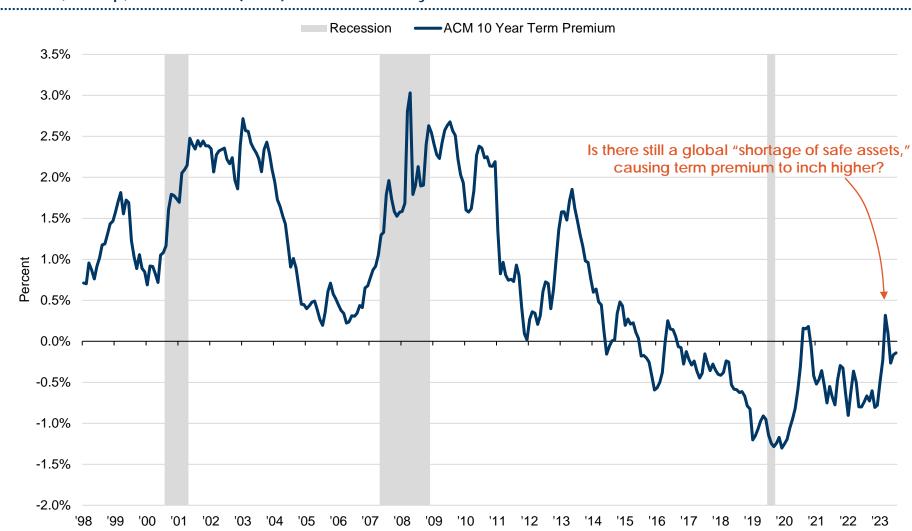


Source: Federal Reserve Bank of New York



How Investors Feel About Locking Up Their Money In U.S. Treasuries

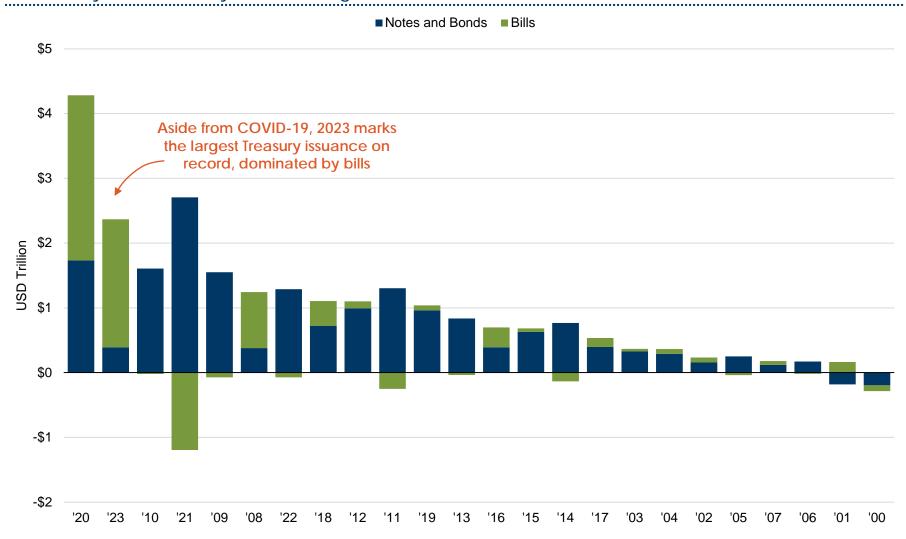
Adrian, Crump, and Moench (ACM) Model of Treasury Term Premia





2023: The Year With the Biggest Net Treasury Issuance, Aside from During COVID

U.S. Treasury Net Issuance By Year From Largest To Smallest

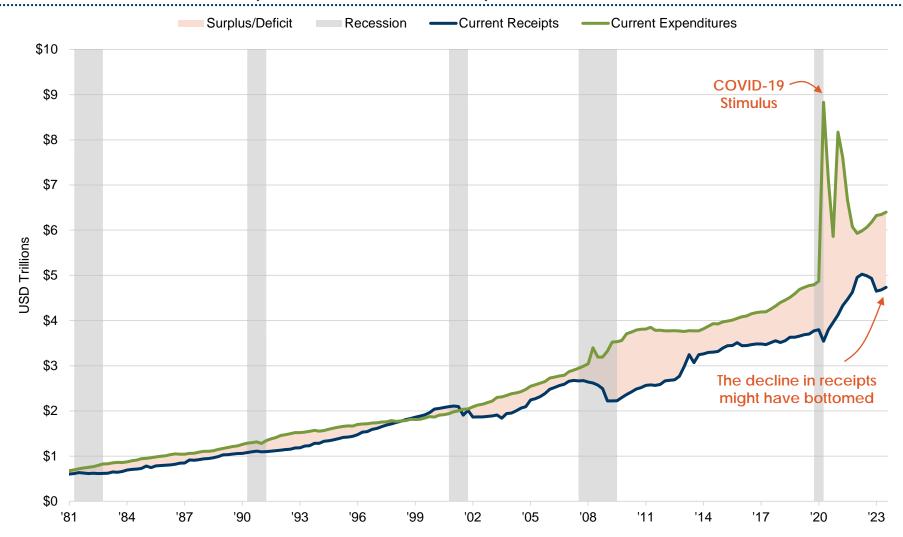


Source: Securities Industry And Financial Markets Association



Widening Deficit Means That Treasury Issuance Will Remain High In 2024

Federal Government Current Expenditures And Current Receipts

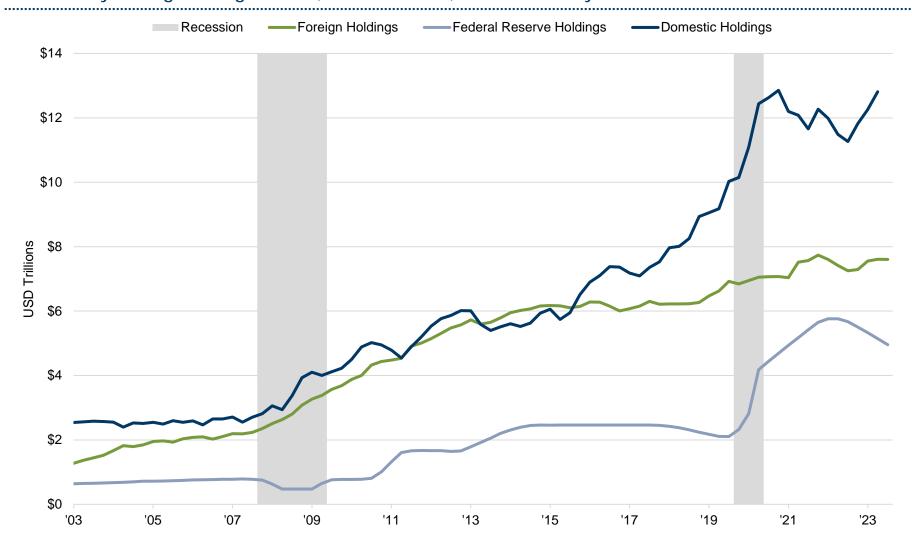


Source: Bureau of Economic Analysis



The Treasury Is The World's Safe Asset—Held By Foreign Central Banks And The Fed

U.S. Treasury Holdings - Foreign Holders, Federal Reserve, and Domestically In The U.S.

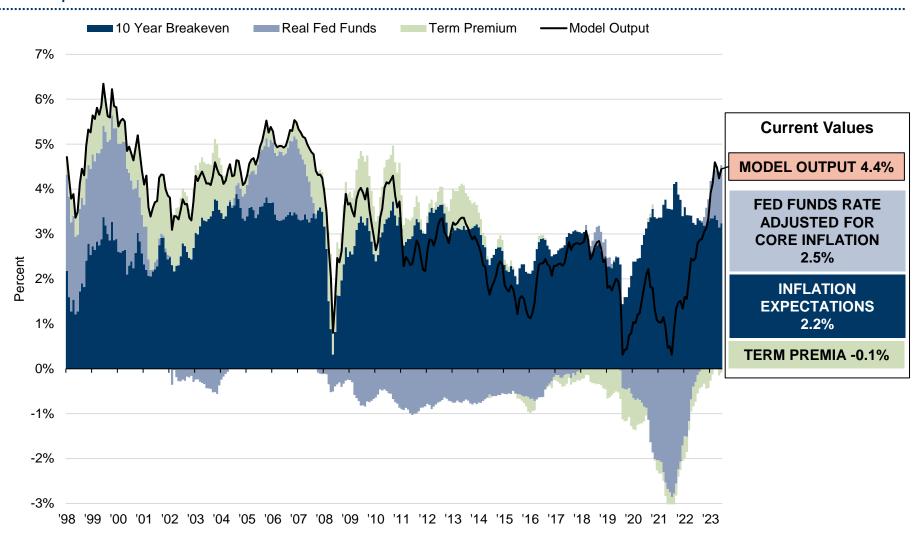


Source: U.S. Treasury, Federal Reserve



Now That You Understand The Building Blocks, Let's Put Them Together!

Decomposition of the 10-Year Yield Fair Value Model

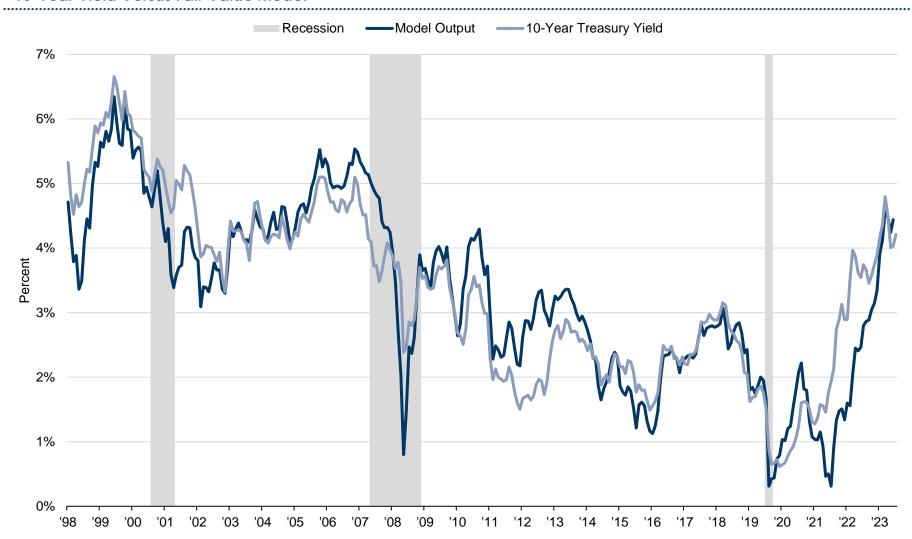


Source: Federal Reserve, Bureau of Economic Analysis, Bloomberg, Payden Calculations



Historically, Our Framework Has Worked Well!

10-Year Yield Versus Fair Value Model



Source: Federal Reserve Bank of San Francisco, Bloomberg, Payden Calculations







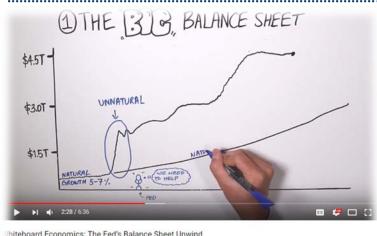


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Chart of the Week and Economic Updates

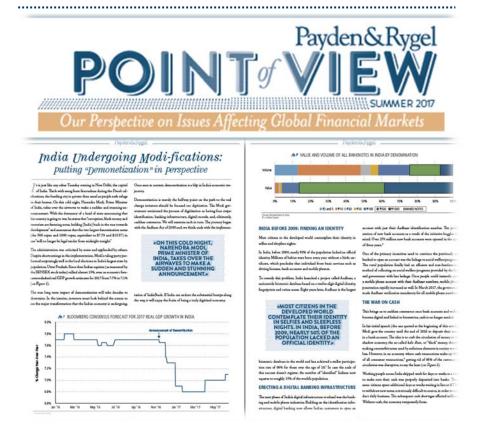


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The Point of View



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