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Macro



Darius Dale Macro Voices Interview
Thursday, February 1, 2024

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Executive Summary: Monday, January 29, 2024

Modal Outcome: The latest data indicate the “resilient US economy” theme we authored in the summer of 2022 persists. While we expect the resiliency of the US economy to begin dissipating in 4Q23 (demonstrated by Q4 GDP), a sharp, sudden slowdown to a well-below-trend growth rate is likely to be avoided. Leading indicators currently indicate only a low probability of a developing recession in the US economy. “Immaculate disinflation” persists in the US economy. The recent surge in productivity growth in the US reduces pressure on corporate margins, which reduces the need for corporations to shed costs and/or raise prices. That said, the current level of productivity growth is north of its structural trend and may not be sustained. While fiscal policy was a dominant driver of persistent upside surprises in US growth in recent quarters, it is unlikely to remain as supportive over the medium term. Transitory factors dramatically inflated the federal budget deficit throughout FY23 in ways that are unlikely to be matched in FY24. That said, the US economy is unlikely to experience a fiscal cliff in a general election year – especially with an incumbent president on the ballot.

Right Tail Risks: The Fed has implemented a dovish pivot with likely rate cuts over the NTM. Although we expect balance sheet roll off to persist over the medium term, we expect the Treasury to offset balance sheet roll off via its low-net-bond-supply financing regime until the RRP balance is largely depleted. The decline in the RRP increases USD liquidity and coincides with rising global liquidity.

Left Tail Risks: Per our fall 2022 analysis of historical yield curve inversion cycles, a recession has the highest probability of commencing in the US economy in the Nov-23 to Apr-24 timeframe. Emergent signs of “sticky inflation” support our view that the “last mile” of disinflation required for the Fed to achieve its price stability mandate will be difficult to traverse in the absence of a recession.

Quantitative Risk Management Summary: Monday, January 29, 2024

Short-Term Signals (<1mo):

- **Crowding Model:** Not currently generating any bullish or bearish signals.
- **Probable Range Model:** No key macro market indicator is currently overbought or oversold.

Short-to-Medium-Term Signals (1-3mos):

- **Dispersion Model:** Balanced flows into Defensive and Cyclical equity sectors and factors on a trend basis suggests long/short equity investors are not likely to experience a violent reversal in dispersion in the near term.
- **Positioning Model:** Retail trader positioning is modestly overweight Stocks per the AAI Bulls-Bears Spread. Discretionary investor positioning is likely to be modestly overweight Stocks, neutral Bonds, and modestly underweight Cash per the AAI Survey. Systematic investor positioning is likely to be modestly overweight Stocks per the trend in realized volatility. Investor positioning in US Treasuries and Commodities is at extreme bearish levels per the CFTC Commitment of Traders Report, which has historically been bullish for Bonds and bearish for Commodities. US Equities are unlikely to find valuation support at current levels. The terminal Fed Funds Rate is the dominant driver of the S&P 500 on a trending basis. Cyclical inflation expectations are the dominant driver of Bitcoin on a trending basis.
- **Volatility-Adjusted Momentum Signal (VAMS):** Among the Four Horsemen of Market Risk, the VVIX/VIX Ratio and High Beta/Low Beta Ratio are bullish, and the Small Cap/Mega Cap Ratio and Value/Growth Ratio are neutral. Risk Assets are mostly bullish. Stocks are bullish. Commodities are neutral. Crypto is bullish. Defensive Assets are mixed. The CVIX, MOVE Index, and VIX are bearish. The US Dollar Index is neutral. Gold and Treasury Bonds are bullish.

Medium-Term Signals (3mos):

- **Global Macro Risk Matrix:** **GOLDILOCKS** is the Top-Down Market Regime. **GOLDILOCKS** is a risk-on regime in which investors are generally rewarded for increasing risk. *Key portfolio construction considerations in **GOLDILOCKS**: Risk Assets > Defensive Assets, High Beta > Low Beta, Growth > Value, International > US, EM > DM, Spread Products > Treasuries, Short Rates > Long Rates, High Yield > Investment Grade, and FX > USD.*
- **Macro Weather Model:** Currently generating a bullish three-month outlook Bonds and Bitcoin, and a neutral three-month outlook for Stocks, the US Dollar, and Commodities. The composite signals indicate the Top-Down Market Regime has a middling probability of remaining in a risk-on condition (i.e., **GOLDILOCKS** or **REFLATION**) over the next three months. Our [Fundamental Research Summary](#) currently implies little risk of a RORO phase transition (i.e., risk-on-to-risk-off or vice versa) in the next 0-6mos and elevated risk of that outcome in the 6-12mo time horizon. This week's gauntlet of key macro updates may change that.

We Use Our **Global Macro Risk Matrix** To Nowcast The Top-Down Market Regime, Which Investors Must Position For To Consistently Perform Well

1/29/2024	ES1	MES1	NKY	NO1	RTY1	SHCOMP	SXXP	CVIX	MOVE	VIX	VVIX	CO1	CRB FOOD	CRB RIND	XAG	XBT	AUD	DX	EUR	GBP	USDCHF	USDCNY	USDJPY	XAU	DEGGBE10	GDBR10	GJGB10	GUKG10	LF98OAS	LF98YW	LUACOAS	LUACYW	S0042FC 1Y1M	S0133FC 1Y1M	S0141FC 1Y1M	UKGGBE10	USGG10YR	USGG2YR	USGG30YR	USGG8E10	USGGT10Y	USYC2Y10				
12/29/2023	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	
1/1/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/2/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/3/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/4/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/5/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/8/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/9/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/10/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/11/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/12/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/15/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/16/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/17/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/18/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/19/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/22/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/23/2024	✓	✗	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/24/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/25/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/26/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1/29/2024	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
G	1	0	0	1	0	0	1	1	1	1	1	0	0	0	0	1	1	0	1	1	0	0	0	1	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0		
R	1	0	0	1	0	0	1	1	1	0	1	1	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
D	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1D%Δ r to SPX (t3mo)	0.67	1.00	0.06	0.64	0.55	0.37	0.26	-0.09	-0.00	-0.41	-0.12	0.03	0.00	0.41	0.40	-0.03	0.73	-0.65	0.63	0.58	-0.62	-0.56	-0.42	0.32	0.00	-0.10	0.07	-0.12	-0.38	-0.49	-0.19	-0.28	-0.19	-0.10	-0.18	0.19	-0.25	-0.25	-0.22	0.05	-0.28	0.02	0.00	0.00		
r²	0.45	1.00	0.00	0.41	0.31	0.13	0.07	0.01	0.00	0.17	0.01	0.00	0.00	0.17	0.16	0.00	0.53	0.42	0.39	0.34	0.39	0.32	0.18	0.10	0.00	0.01	0.00	0.01	0.14	0.24	0.04	0.08	0.04	0.01	0.03	0.03	0.06	0.06	0.05	0.00	0.08	0.00	0.00			
1D%Δ r to 10yr TIPS Yield	-0.22	-0.28	-0.14	-0.20	-0.36	0.07	-0.15	-0.02	0.13	0.13	0.04	0.05	0.12	-0.07	-0.41	0.02	-0.47	0.45	-0.40	-0.42	0.39	0.28	0.51	-0.49	0.23	0.59	0.24	0.61	0.12	0.67	0.04	0.91	0.78	0.59	0.63	0.03	0.94	0.82	0.88	0.01	1.00	0.04	0.00			
r²	0.05	0.08	0.02	0.04	0.13	0.00	0.02	0.00	0.02	0.02	0.00	0.00	0.01	0.01	0.17	0.00	0.22	0.21	0.16	0.18	0.15	0.08	0.26	0.24	0.05	0.35	0.06	0.38	0.01	0.45	0.00	0.82	0.61	0.35	0.40	0.00	0.88	0.67	0.78	0.00	1.00	0.00	0.00			
1D%Δ r to DXY	-0.50	-0.65	0.06	-0.44	-0.64	0.01	-0.22	-0.03	0.08	0.19	0.15	-0.08	0.01	-0.29	-0.54	0.01	-0.80	1.00	-0.94	-0.87	0.74	0.61	0.66	-0.53	0.05	0.26	0.00	0.32	0.38	0.65	0.25	0.59	0.44	0.13	0.28	-0.06	0.47	0.47	0.42	0.13	0.45	-0.01	0.00			
r²	0.25	0.42	0.00	0.19	0.41	0.00	0.05	0.00	0.01	0.04	0.02	0.01	0.00	0.09	0.30	0.00	0.64	1.00	0.89	0.76	0.55	0.37	0.43	0.28	0.00	0.07	0.00	0.11	0.15	0.42	0.06	0.35	0.19	0.02	0.08	0.00	0.23	0.22	0.18	0.02	0.21	0.00	0.00			

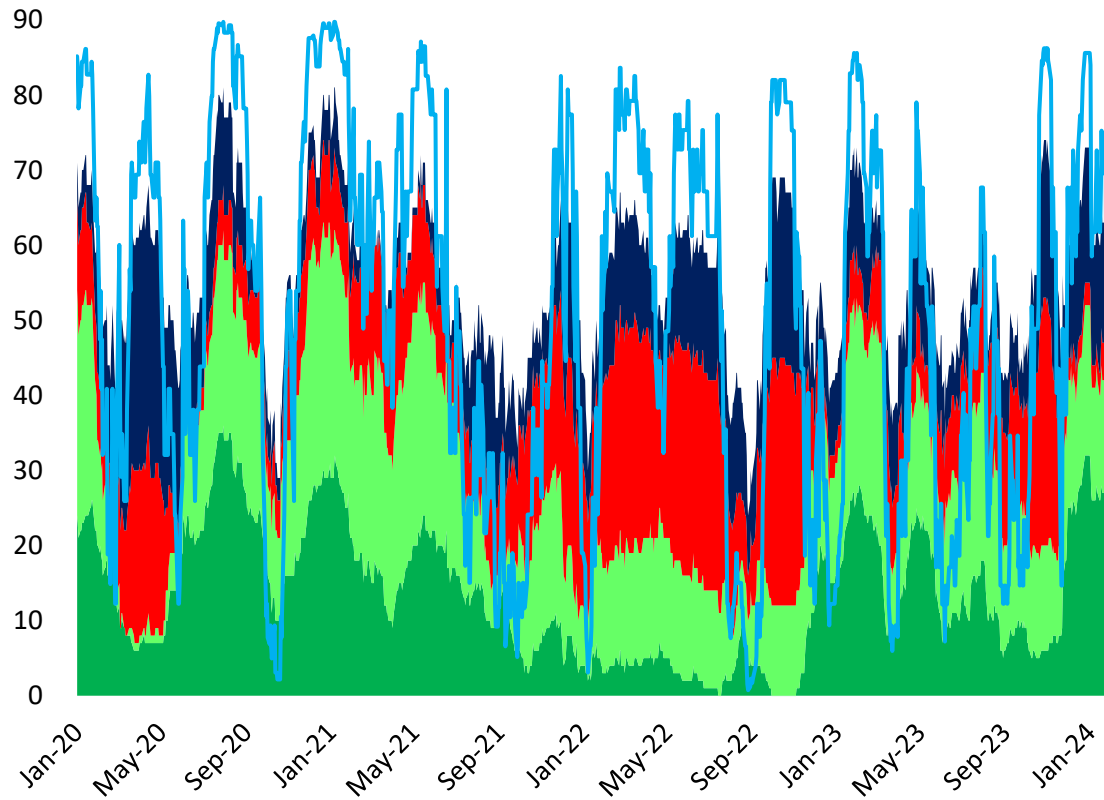
© 42 Macro LLC. Data Source: Bloomberg.

GREEN ✓ = bullish VAMS, ORANGE ! = neutral VAMS, and RED X = bearish VAMS.

Ticker Key: <https://bit.ly/3IOdA60>. You may have to copy/paste the link into your browser if clicking on it does not work.

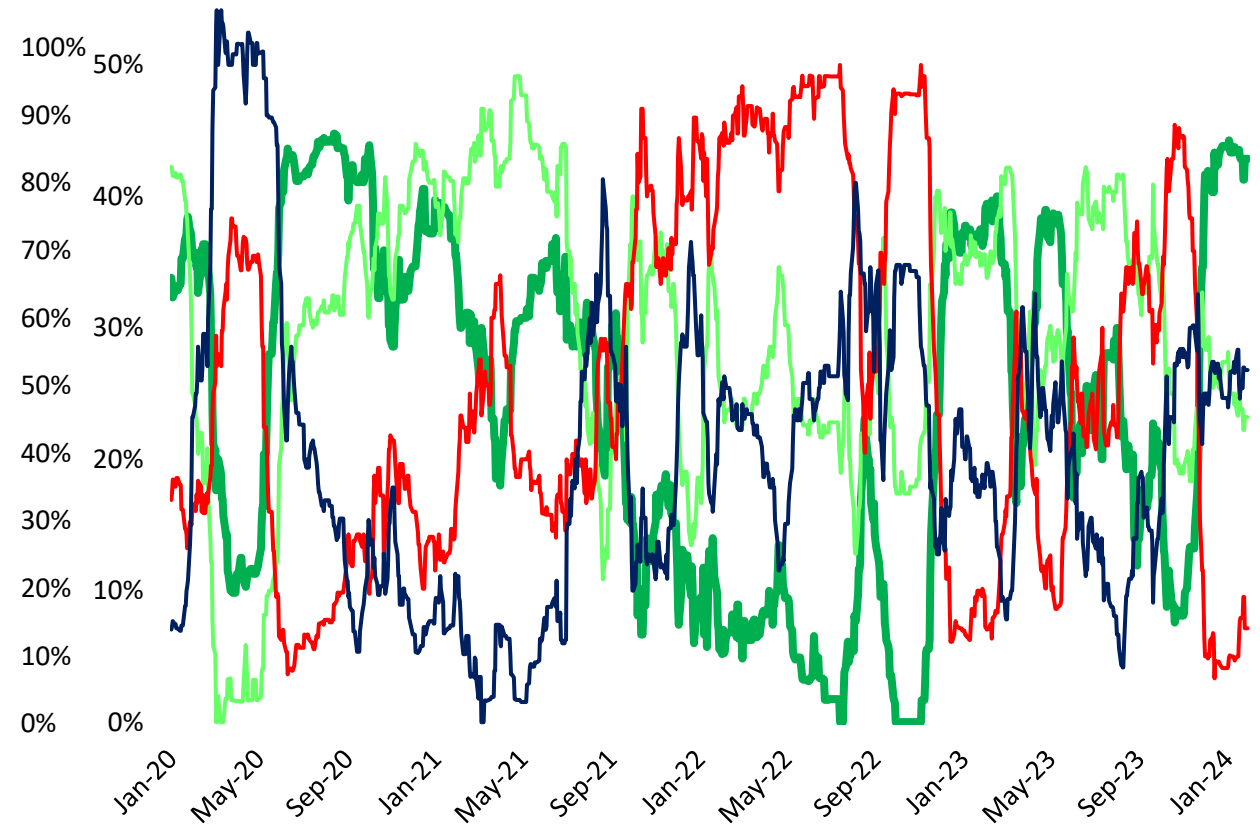
Global Macro Risk Matrix: Sum Of Confirming Markets

GOLDBLOCKS = 24 (t3yr peak = 32) **REFLATION** = 13 (t3yr peak = 32)
INFLATION = 4 (t3yr peak = 33) **DEFLATION** = 15 (t3yr peak = 24)
 — Strength of Signal = 54% (r-axis)



Global Macro Risk Matrix: Share Of Confirming Markets

GOLDBLOCKS = 43% (t3yr peak = 44%) **REFLATION** = 23% (t3yr peak = 49%)
INFLATION = 7% (t3yr peak = 50%) **DEFLATION** = 27% (t3yr peak = 41%)



© 42 Macro LLC. Data Source: Bloomberg.

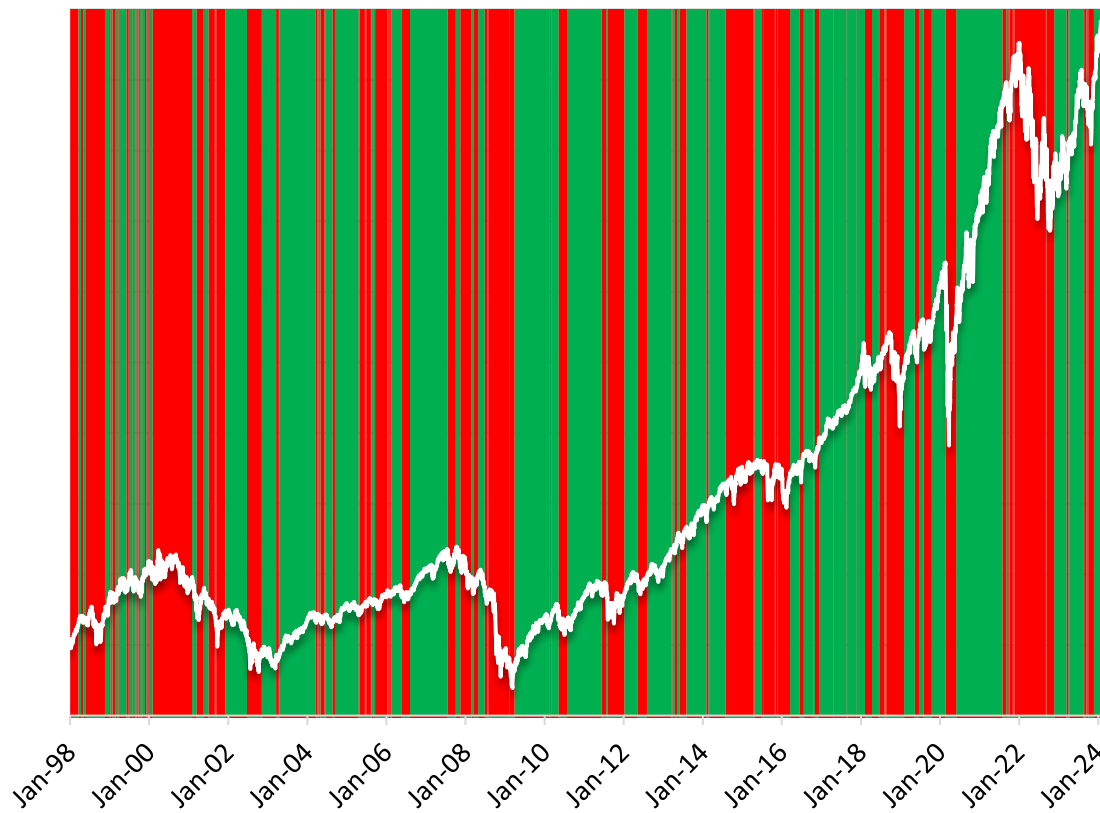
GOLDBLOCKS = risk on with a disinflationary bias. **REFLATION** = risk on with an inflationary bias.
INFLATION = risk off with an inflationary bias. **DEFLATION** = risk off with a disinflationary bias.

Global Macro Risk Matrix: Top-Down Market Regime

■ Risk-On Regime (GOLDILOCKS or REFLATION)

■ Risk-Off Regime (INFLATION or DEFLATION)

S&P 500 (r-axis)

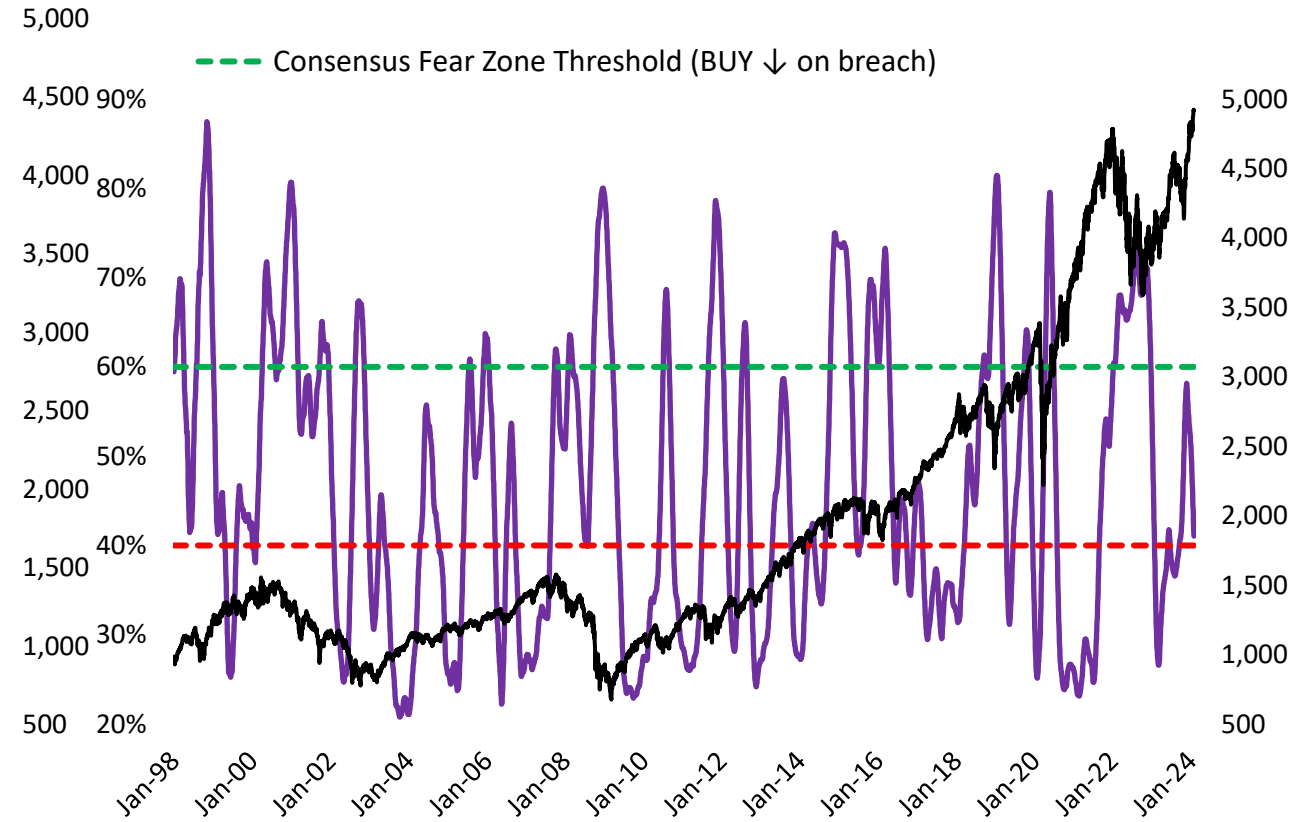


Global Macro Risk Matrix: Cross-Asset Correction Risk Indicator

— INFLATION + DEFLATION Shares (smoothed) = 41%; RISING = Systematic SELLING; FALLING = Systematic BUYING

--- Consensus Complacency Zone Threshold (SELL ↑ on breach)

--- Consensus Fear Zone Threshold (BUY ↓ on breach)

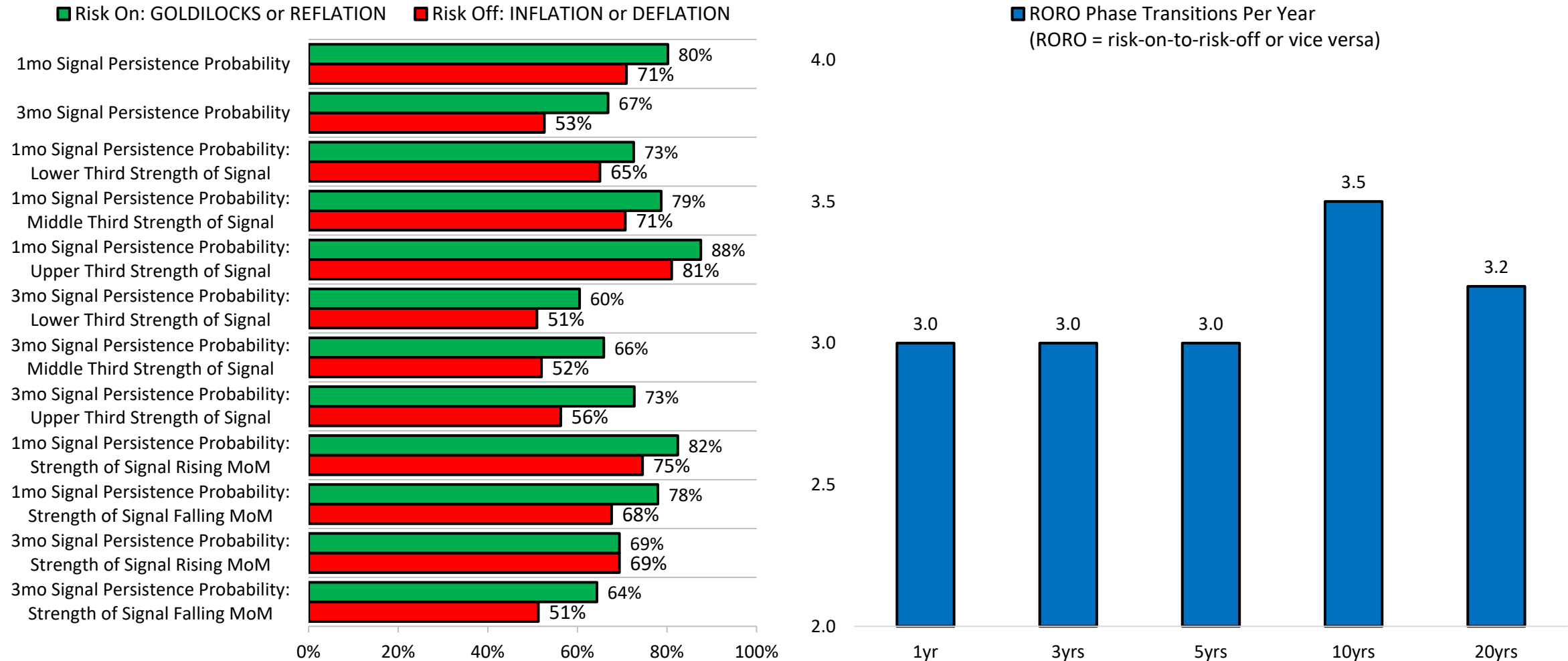


© 42 Macro LLC. Data Source: Bloomberg.

GOLDILOCKS = risk on with a disinflationary bias. REFLATION = risk on with an inflationary bias.

INFLATION = risk off with an inflationary bias. DEFLATION = risk off with a disinflationary bias.

Global Macro Risk Matrix Top-Down Market Regime Phase Transition Statistics








© 42 Macro LLC. Data Source: Bloomberg. Regime persistence probability study begins in Jan-98.

GOLDILOCKS = risk on with a disinflationary bias. **REFLATION** = risk on with an inflationary bias.

INFLATION = risk off with an inflationary bias. **DEFLATION** = risk off with a disinflationary bias.

We Use Our **Macro Weather Model** (And Fundamental Research) To Determine How Long The Current Top-Down Market Regime Is Likely To Persist

Ten Principal Components of Macro: Real Economy Cycles					United States 1/29/2024		Ten Principal Components of Macro: Financial Economy Cycles						
Growth		Previous Value	Latest Value	Previous Signal	Latest Signal	Stock Market  3-Month Outlook	Latest Signal	Previous Signal	Latest Value	Previous Value	Liquidity		
OECD Composite Leading Indicator		99.6	99.7	⬆️	⬆️		⬆️	⬆️		\$6,276	\$6,289	42 Macro Net Liquidity \$bn	
Consensus NTM Real GDP Δ		-190bps	-190bps	⬇️	⬇️		⬆️	⬆️		\$132,643	\$132,699	42 Macro Global Liquidity Proxy \$bn	
Inflation		Previous Value	Latest Value	Previous Signal	Latest Signal	Bond Market  3-Month Outlook	Latest Signal	Previous Signal	Latest Value	Previous Value	Credit		
Headline CPI YoY		3.1%	3.4%	⬇️	⬇️		⬇️	⬇️		-2.3%	-0.9%	Domestic Broad Money Supply YoY	
Consensus NTM Headline CPI Δ		-60bps	-110bps	⬇️	⬇️		⬇️	⬇️		2.7%	5.1%	Global PPP-Weighted Broad Money Supply YoY	
Employment		Previous Value	Latest Value	Previous Signal	Latest Signal	US Dollar  3-Month Outlook	Latest Signal	Previous Signal	Latest Value	Previous Value	Interest Rates		
Unemployment Rate		3.7%	3.7%	⬆️	⬆️		➡️	➡️		5.50%	5.50%	Benchmark Policy Rate	
Consensus NTM Unemployment Rate Δ		50bps	50bps	⬆️	⬆️		⬇️	⬇️		-115bps	-115bps	2yr Nominal Yield-Benchmark Policy Rate Spread	
Corporate Profits		Previous Value	Latest Value	Previous Signal	Latest Signal	Commodities  3-Month Outlook	Latest Signal	Previous Signal	Latest Value	Previous Value	Fear		
Consensus NTM/TTM S&P 500 Sales Growth Rate		3.4%	3.4%	⬇️	⬇️		⚠️	⚠️		-13%	-16%	Aggregated US Dollar Positioning	
Consensus NTM/TTM S&P 500 EPS Growth Rate		-4.0%	-4.0%	⬆️	⬆️		❌	❌		-20%	-20%	Aggregated US Treasurys Positioning	
Fiscal Policy		Previous Value	Latest Value	Previous Signal	Latest Signal	Bitcoin  3-Month Outlook	Latest Signal	Previous Signal	Latest Value	Previous Value	Greed		
Sovereign Fiscal Balance/Nominal GDP Ratio		-6.3%	-6.5%	⬇️	⬆️		❌	❌		-0%	-1%	Aggregated Commodities Positioning	
USD Real Effective Exchange Rate		108.4	106.6	⬆️	⬆️		⚠️	⚠️		-4%	-3%	Aggregated US Equities Positioning	
GRID Regime: GOLDILOCKS Conviction: MEDIUM													

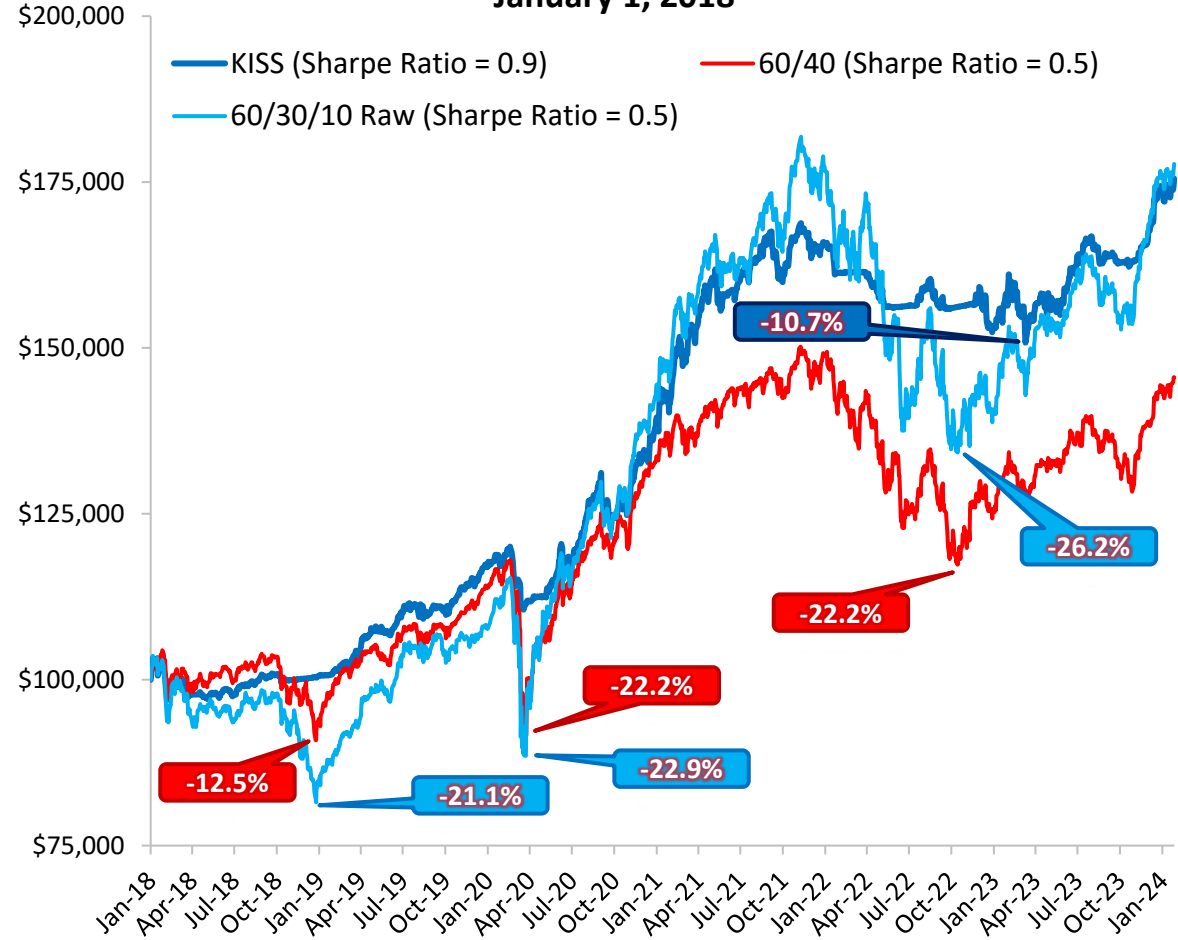
© 42 Macro LLC. Data Source: Bloomberg. How the model works: Each of the 20 features representing the Ten Principal Components of Macro contributes independently to the independent Composite Signals for each asset class. Each Composite Signal is designed to predict whether observed macroeconomic conditions – aka the “Macro Weather” – support **buying**, **holding**, or **selling** the asset class today with a 3-month investment horizon.

KISS Portfolio Construction Process: Keep It Simple & Systematic

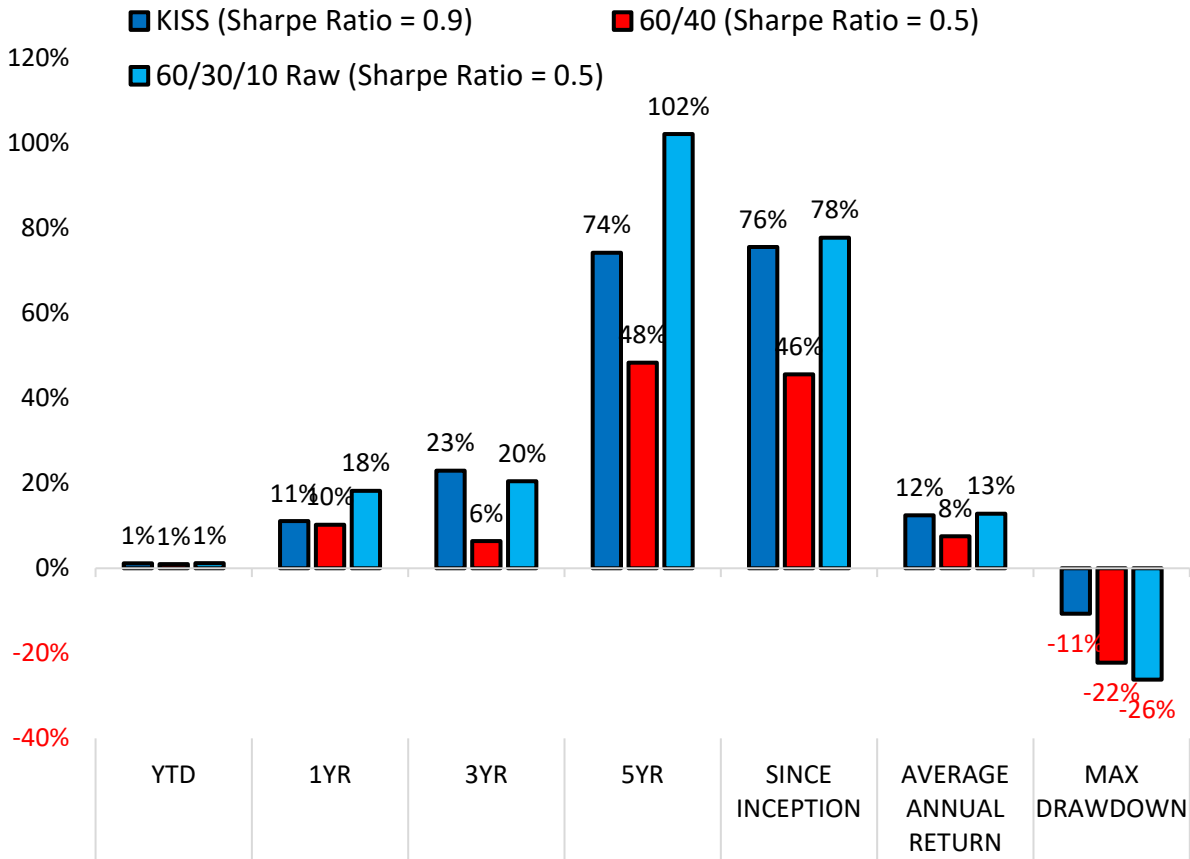
- I. **Factor Selection Process:** We have developed a 60/30/10 trend-following strategy that is likely to materially outperform the standard 60/40 portfolio over the long term.
- The 42 Macro KISS Portfolio Construction Process is a thoughtful evolution of the 60/40 portfolio framework. Our 60/30/10 trend-following strategy is designed to simplify investing, minimize downside capture during bear markets, and maximize upside capture during bull markets.
 - **60% Equities:** Our default exposure is the S&P 500 (\$SPY). Investors may allocate that 60% to an alternate equity ETF or basket of equity ETFs that is better aligned with their individual investment preferences, risk tolerance, and/or product availability. Consult our Discretionary Investment Ideas Summary for ideas.
 - **30% Fixed Income:** Our default exposure is the Core US Aggregate (\$AGG). Investors may allocate that 30% to an alternate fixed income ETF or basket of fixed income ETFs that is better aligned with their individual investment preferences, risk tolerance, and/or product availability. Consult our Discretionary Investment Ideas Summary for ideas.
 - **10% Bitcoin:** Our default exposure is Bitcoin (\$FBTC). Investors may allocate that 10% to the Bitcoin token directly, or to Gold, a basket of physical commodities, or a basket of cryptocurrencies that is better aligned with their individual investment preferences, risk tolerance, and/or product availability. Consult our Discretionary Investment Ideas Summary for ideas.
- II. **Top-Down Risk Management Overlay:** We use our Macro Weather Model to incorporate volatility targeting into our 60/30/10 trend-following strategy.
- If the Weather Model composite signal for the Stock Market is BULLISH, then the Target Allocation for the \$SPY = 60%. If the Weather Model composite signal for the Stock Market is NEUTRAL, then the Target Allocation for the \$SPY = 50%. If the Weather Model composite signal for the Stock Market is BEARISH, then the Target Allocation for the \$SPY = 40%.
 - If the Weather Model composite signal for the Bond Market is BULLISH, then the Target Allocation for the \$AGG = 30%. If the Weather Model composite signal for the Bond Market is NEUTRAL, then the Target Allocation for the \$AGG = 25%. If the Weather Model composite signal for the Bond Market is BEARISH, then the Target Allocation for the \$AGG = 20%.
 - If the Weather Model composite signal for Bitcoin is BULLISH, then the Target Allocation for the \$FBTC = 10%. If the Weather Model composite signal for Bitcoin is NEUTRAL, then the Target Allocation for the \$FBTC = 7.5%. If the Weather Model composite signal for Bitcoin is BEARISH, then the Target Allocation for the \$FBTC = 5%.
- III. **Bottom-Up Risk Management Overlay:** We use our Volatility-Adjusted Momentum Signal to incorporate dynamic positioning sizing into our 60/30/10 trend-following strategy.
- If an ETF is Bullish VAMS, then the Actual Exposure = 100% of the Target Allocation.
 - If an ETF is Neutral VAMS, then the Actual Exposure = 50% of the Target Allocation.
 - If an ETF is Bearish VAMS, then the Actual Exposure = 0% of the Target Allocation.

KISS Portfolio Construction Process Backtest

Hypothetical Performance of a \$100,000 Portfolio Since January 1, 2018



Hypothetical Performance of a \$100,000 Portfolio Over Industry-Standard Reporting Horizons (Inception = January 1, 2018)



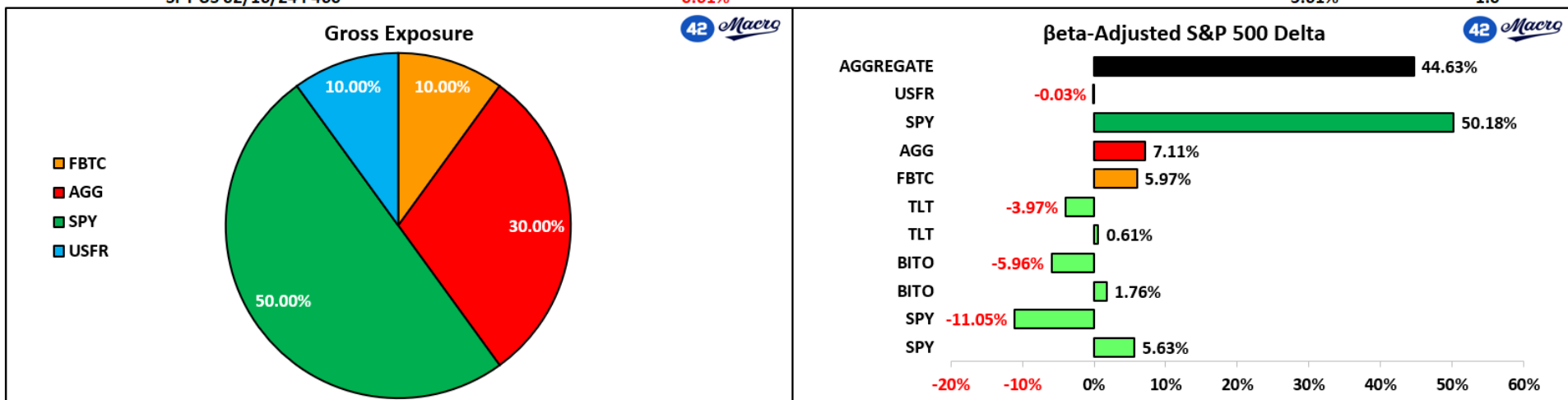
© 42 Macro LLC. Data Source: Bloomberg. Total returns based on daily closing prices. Out-of-sample backtest. KISS' Top-Down and Bottom-Up Risk Management Overlay pivots are lagged by a full day to simulate real-world trading conditions.

Percent of time -20% or more off the highs: 3% (trailing 10yrs) and 37% (all-time) for Stocks; 20% (trailing 10yrs) and 25% (all-time) for Bonds; 84% (trailing 10yrs) and 82% (all-time) for Bitcoin.

Our Current KISS Portfolio Construction

42 Macro KISS Portfolio Construction: 1/29/24

Liquidity (Percent of MAX Exposure of 100%): 10%	Weather Model Target Allocation	VAMS Actual Exposure	Δ Since Prior Update	6mo Beta to S&P 500
USFR	n/a	10.00%		-0.0
Equities (Percent of MAX Exposure of 60%): 83%	Weather Model Target Allocation (60%/50%/40%)	VAMS Actual Exposure (100%/50%/0%)	Δ Since Prior Update	6mo Beta to S&P 500
SPY	50.00%	50.00%		1.0
Fixed Income (Percent of MAX Exposure of 30%): 100%	Weather Model Target Allocation (30%/25%/20%)	VAMS Actual Exposure (100%/50%/0%)	Δ Since Prior Update	6mo Beta to S&P 500
AGG	30.00%	30.00%		0.2
Bitcoin (Percent of MAX Exposure of 10%): 100%	Weather Model Target Allocation (10%/7.5%/5%)	VAMS Actual Exposure (100%/50%/0%)	Δ Since Prior Update	6mo Beta to S&P 500
FBTC	10.00%	10.00%		0.6
Options Overlay: 2.68%				
	Premium	Margin	Delta	6mo Beta to S&P 500
TLT US 02/16/24 P90	1.20%		-7.45%	0.5
TLT US 02/16/24 P85	-0.37%		1.15%	0.5
BITO US 03/15/24 P20	2.22%		-9.98%	0.6
BITO US 03/15/24 P16	-0.89%		2.94%	0.6
SPY US 02/16/24 P470	1.13%		-11.01%	1.0
SPY US 02/16/24 P460	-0.61%		5.61%	1.0



Investors May Use Our **Discretionary Investment Ideas Summary** To Implement Customized Version Of **KISS OR** As A Risk Management Overlay To Their Discretionary Trading Process: Monday, January 29, 2024

TOP-DOWN MARKET REGIME: GOLDILOCKS																								
STOCK MARKET MACRO WEATHER MODEL SIGNAL				NEUTRAL	BOND MARKET MACRO WEATHER MODEL SIGNAL				BULLISH	US DOLLAR MACRO WEATHER MODEL SIGNAL				NEUTRAL	COMMODITIES MACRO WEATHER MODEL SIGNAL				NEUTRAL	BITCOIN MACRO WEATHER MODEL SIGNAL				BULLISH
US EQUITY SECTORS		VAMS	RSI	PROPER TRADE	US EQUITY FACTORS		VAMS	RSI	PROPER TRADE	GLOBAL EQUITIES		VAMS	RSI	PROPER TRADE	FIXED INCOME SECTORS		VAMS	RSI	PROPER TRADE	MACRO EXPOSURES		VAMS	RSI	PROPER TRADE
Beta (SPY)		✓	71	LONG: Max Position	Dividend Compounders (SPHD)		✓	54	LONG: Max Position	Australia (EWA)		✓	55	LONG: Max Position	0-5yr TIPS (STIP)		✓	59	LONG: Max Position	Agriculture (DBA)		⚠	64	LONG: Half Position
Consumer Discretionary (XLY)		✓	43	LONG: Max Position	Growth (IWF)		✓	74	LONG: Max Position	Brazil (EWZ)		✓	47	LONG: Max Position	1-3yr Treasurys (SHY)		✓	58	No Position	Australian Dollar (FXA)		⚠	41	LONG: Half Position
Consumer Staples (XLP)		✓	57	LONG: Max Position	High Beta (SPHB)		⚠	59	LONG: Half Position	Canada (EWC)		✓	58	LONG: Max Position	5-10yr TIPS (TIP)		✓	49	No Position	Base Metals (DBB)		⚠	57	LONG: Half Position
Communication Services (XLC)		✓	79	LONG: Half Position	Low Beta (SPLV)		✓	55	LONG: Max Position	China (FXI)		⚠	47	LONG: Half Position	5-10yr Treasurys (IEF)		✓	47	No Position	Bitcoin (BITO)		✓	49	LONG: Max Position
Energy (XLE)		⚠	57	LONG: Half Position	Mega Caps (OEF)		✓	74	LONG: Max Position	Emerging Markets (EEM)		⚠	50	LONG: Half Position	25+ Year Treasurys (TLT)		✓	42	No Position	British Pound (FXB)		⚠	53	LONG: Half Position
Financials (XLF)		✓	72	LONG: Max Position	Mega Cap Growth (QQQ)		✓	70	LONG: Max Position	Eurozone (EZU)		✓	61	LONG: Max Position	Barclays Agg (AGG)		✓	49	LONG: Max Position	Commodities (DBC)		✗	61	No Position
Health Care (XLV)		✓	59	LONG: Max Position	Mid Caps (VO)		✓	57	LONG: Max Position	India (INDA)		✓	55	LONG: Max Position	BDCs (BIZD)		✓	63	LONG: Max Position	Energy (USO)		⚠	65	LONG: Half Position
Industrials (XLI)		✓	59	LONG: Max Position	Momentum (MTUM)		✓	76	LONG: Half Position	Japan (EWJ)		✓	55	LONG: Max Position	Convertibles (CWB)		✓	55	LONG: Max Position	Euro (FXE)		⚠	45	LONG: Half Position
Information Technology (XLK)		✓	69	LONG: Max Position	Quality (QUAL)		✓	69	LONG: Max Position	United Kingdom (EWU)		✓	54	LONG: Max Position	EM Local Currency Bonds (EMLC)		✓	48	LONG: Max Position	Gold (GLD)		✓	47	LONG: Max Position
Materials (XLB)		✓	46	LONG: Max Position	Small Caps (IWM)		⚠	55	LONG: Half Position						EM USD Bonds (EMB)		✓	51	LONG: Max Position	Japanese Yen (FXJ)		✗	39	SHORT: Max Position
Real Estate (XLRE)		✓	46	LONG: Max Position	Value (IWD)		⚠	61	LONG: Half Position						High Yield Credit (HYG)		✓	61	LONG: Max Position	Swiss Franc (FXF)		⚠	48	SHORT: Half Position
Utilities (XLU)		⚠	42	LONG: Half Position											Investment Grade Credit (LQD)		✓	51	LONG: Max Position	US Dollar (UUP)		⚠	62	SHORT: Half Position
															Leveraged Loans (BKLN)		✓	40	LONG: Max Position	60/40 Portfolio (BIGPX)		⚠	61	LONG: Half Position
															MBS (MBB)		✓	49	LONG: Max Position					
															Preferreds (PFF)		✓	73	LONG: Max Position					
Data Source: Bloomberg. Intellectual Property of 42 Macro LLC. VAMS = Volatility-Adjusted Momentum Signal. RSI = 14-Day Relative Strength Index. Highlighted exposures indicate change in PROPER TRADE signal from the previous report. GREEN = directionally bullish change. RED = directionally bearish change.																								

Data Source: Bloomberg. Intellectual Property of 42 Macro LLC. VAMS = Volatility-Adjusted Momentum Signal. RSI = 14-Day Relative Strength Index. Highlighted exposures indicate change in PROPER TRADE signal from the previous report. GREEN = directionally bullish change. RED = directionally bearish change.

© 42 Macro LLC. Data Source: Bloomberg. **GREEN ✓** = bullish VAMS, **ORANGE !** = neutral VAMS, and **RED ✗** = bearish VAMS.

If an ETF is **bullish** (or **bearish**) VAMS and that is in line with how it should trade in the current **GRID** regime, the model will recommend a **LONG (SHORT)**: Max Position.

If an ETF is **neutral** VAMS and it should be **bullish** (or **bearish**) in the current **GRID** regime, the model will recommend a **LONG (SHORT)**: Half Position.

Max **LONGS** get cut to Half **LONGS** when the 14-Day RSI is **above 75**. Half **LONGS** get cut to No Position when the 14-Day RSI is **above 75**.

Max **SHORTS** and Half **SHORTS** get cut to No Position when the 14-Day RSI is **below 35**. Highlighted ETFs = changes in Proper Trade signal from the prior publication.

Fundamental Research Summary: Monday, January 29, 2024

Growth:

- The latest data indicate the “resilient US economy” theme we authored in the summer of 2022 persists. While we expect the resiliency of the US economy to begin dissipating in 4Q23 (demonstrated by Q4 GDP), a sharp, sudden slowdown to a well-below-trend growth rate is likely to be avoided.
- Per our fall 2022 analysis of historical yield curve inversion cycles, a recession has the highest probability of commencing in the US economy in the Nov-23 to Apr-24 timeframe. That said, leading indicators currently indicate only a low probability of a developing recession in the US economy.
- Japan and Australia currently have the most favorable growth dynamics abroad. China and Switzerland currently have the least favorable growth dynamics abroad.

Inflation:

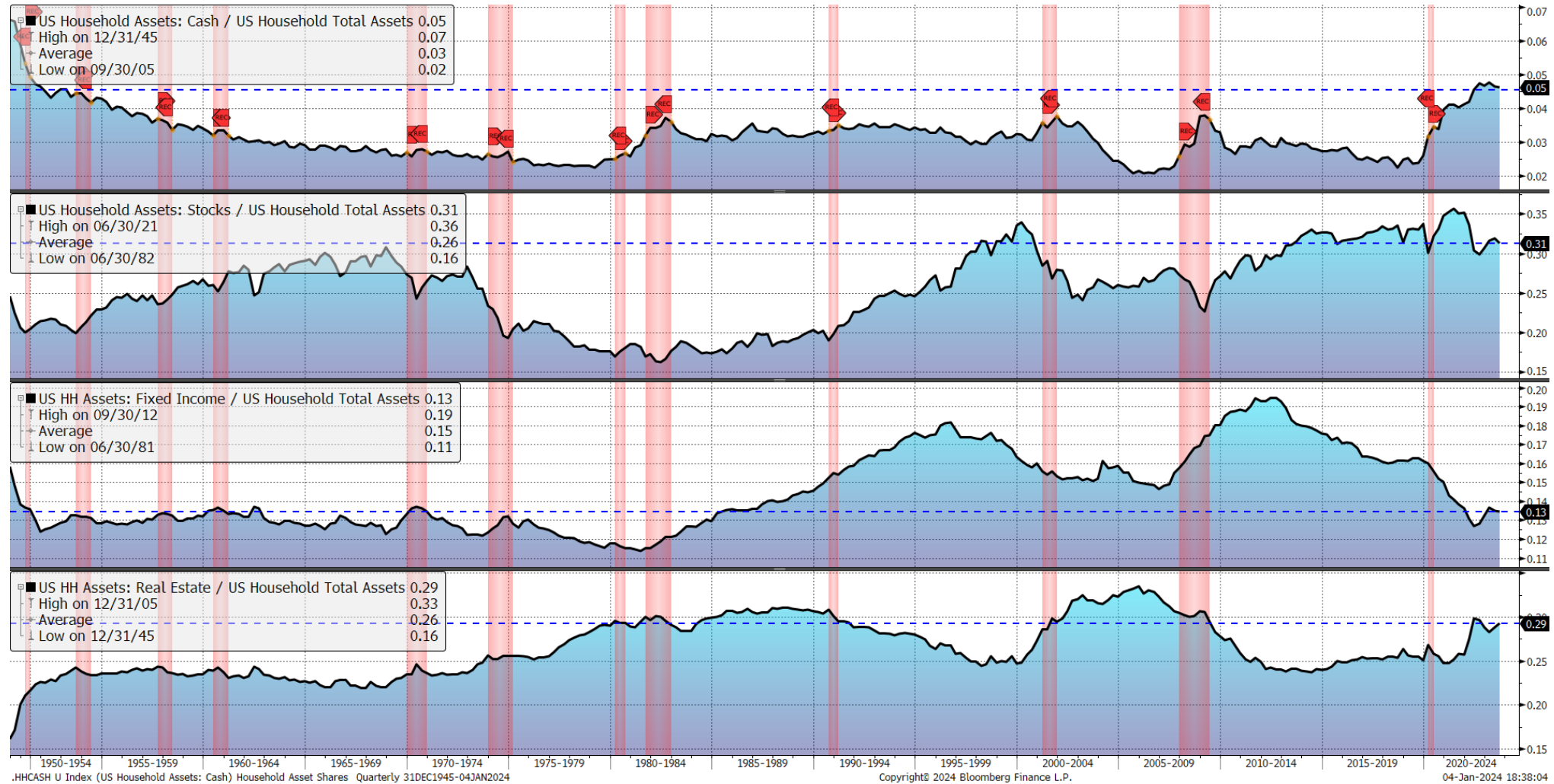
- “Immaculate disinflation” persists in the US economy. Emergent signs of “sticky inflation” support our view that the “last mile” of disinflation required for the Fed to achieve its price stability mandate will be difficult to traverse in the absence of a recession.
- The recent surge in productivity growth in the US reduces pressure on corporate margins, which reduces the need for corporations to shed costs and/or raise prices. That said, the current level of productivity growth is north of its structural trend and may not be sustained.
- China and India currently have the most favorable inflation dynamics abroad. The UK and Australia currently have the least favorable inflation dynamics abroad.

Policy:

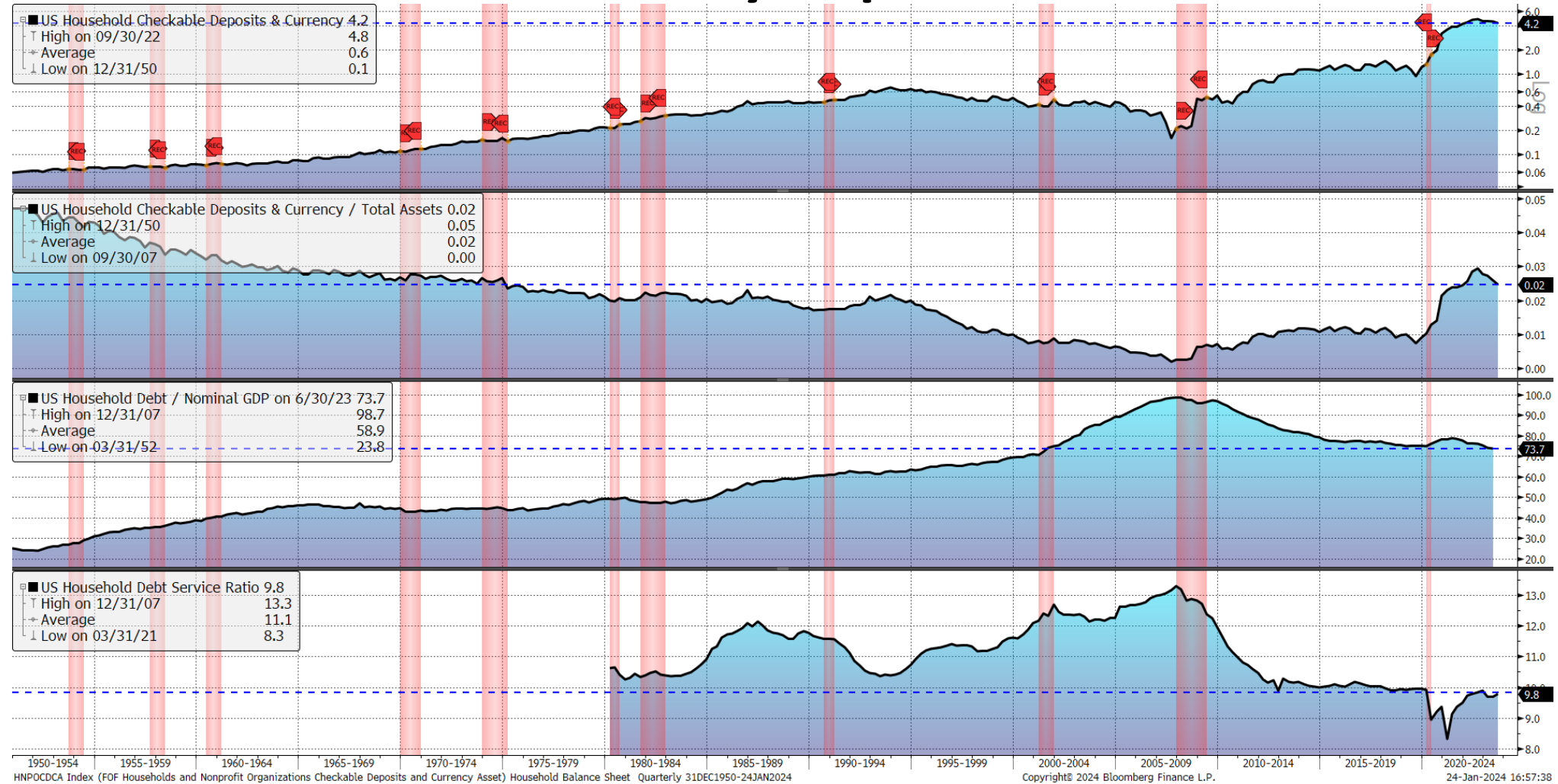
- The Fed has implemented a dovish pivot with likely rate cuts over the NTM. We expect balance sheet roll off to persist over the medium term. We expect the Treasury to offset balance sheet roll off via its low-net-bond-supply financing regime until the RRP balance is largely depleted. The decline in the RRP increases USD liquidity and coincides with rising global liquidity.
- While fiscal policy was a dominant driver of persistent upside surprises in US growth in recent quarters, it is unlikely to remain as supportive over the medium term. Transitory factors dramatically inflated the federal budget deficit throughout FY23 in ways that are unlikely to be matched in FY24. That said, the US economy is unlikely to experience a fiscal cliff in a general election year – especially with an incumbent president on the ballot.
- The UK and Brazil currently have the most favorable policy dynamics abroad. Australia and Switzerland currently have the least favorable policy dynamics abroad.

Modal Outcome

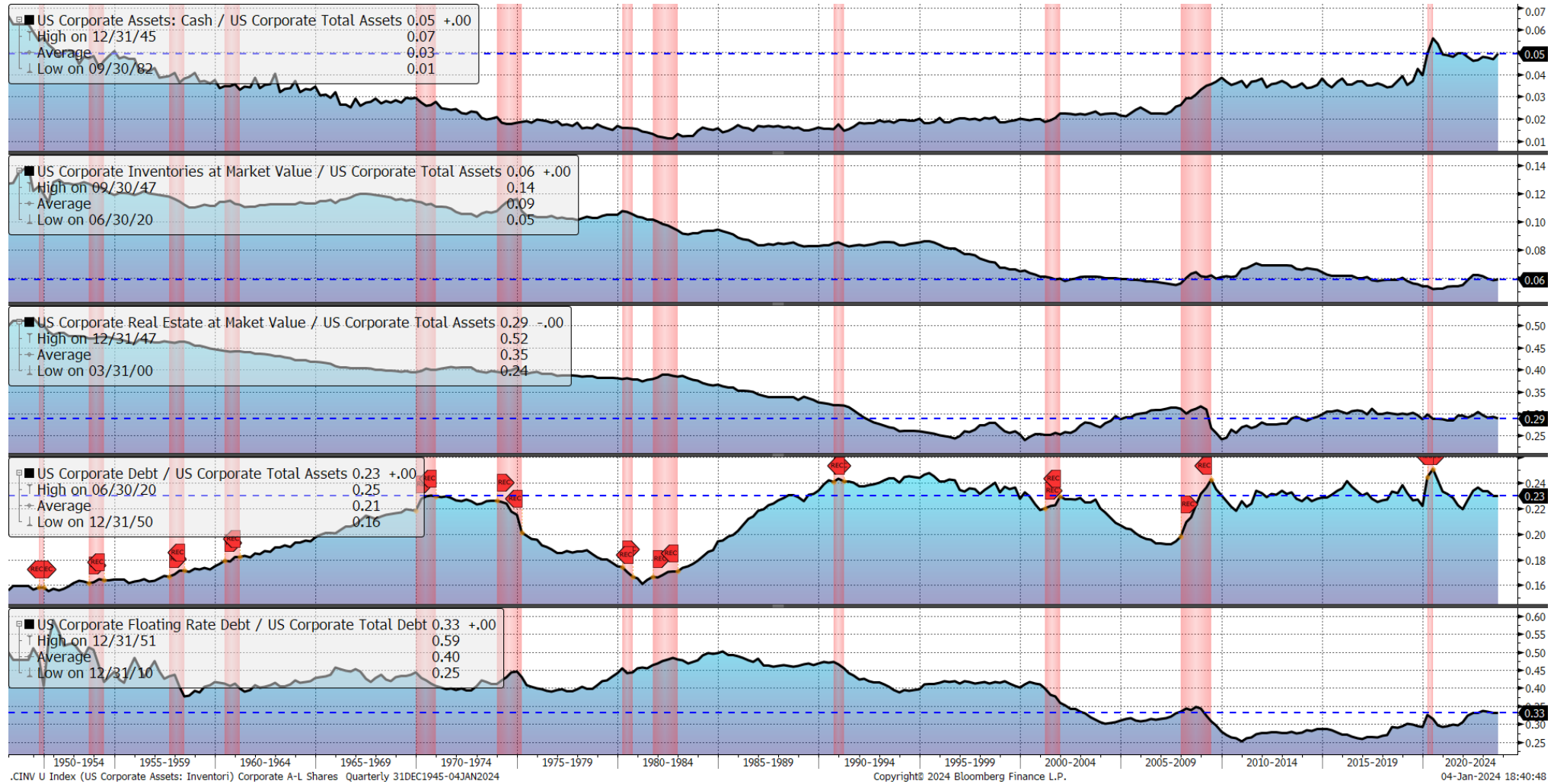
Household Balance Sheets Remain Flush With Cash



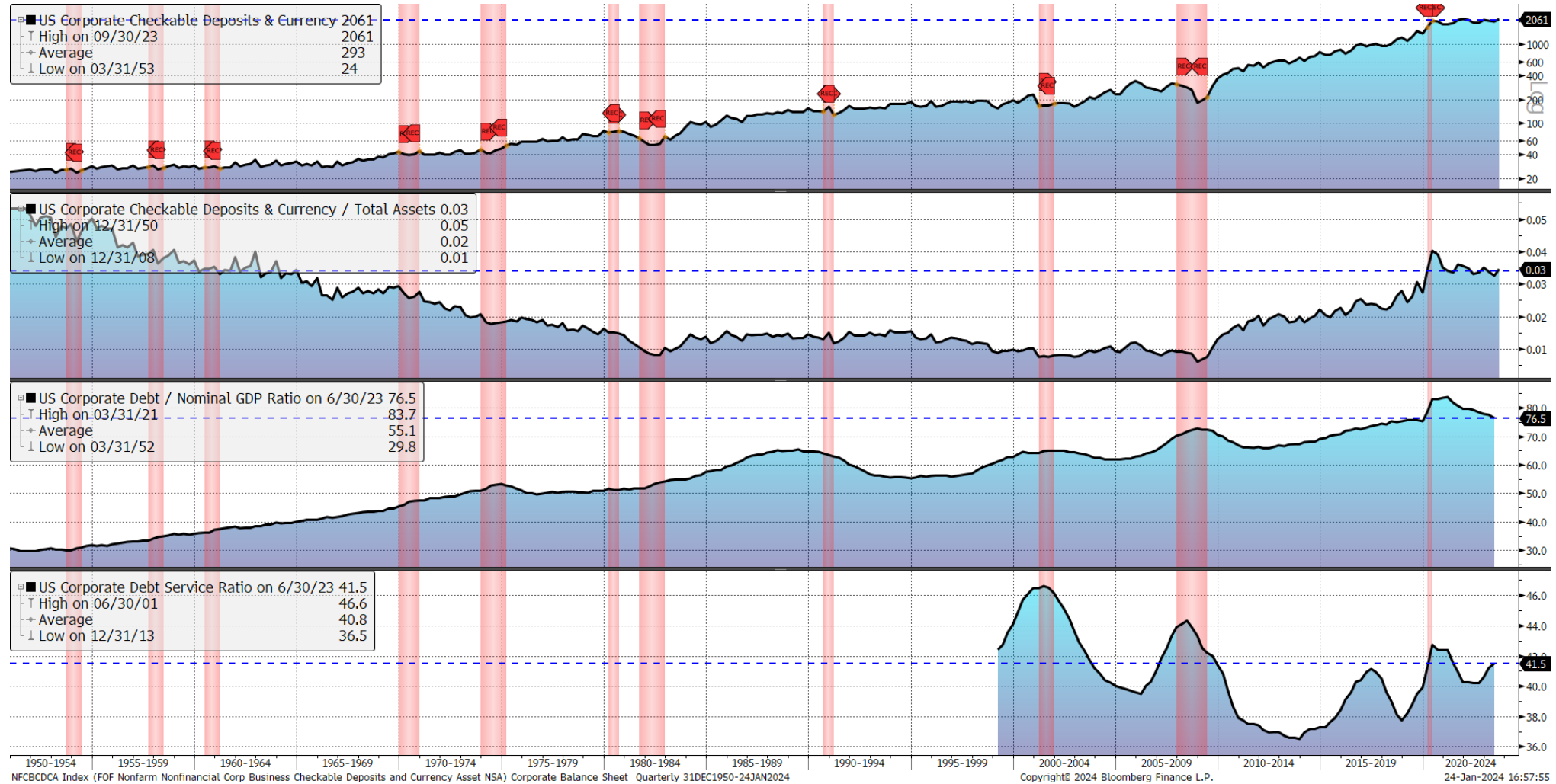
Household Leverage Is Cyclically Depressed And The Household Debt Service Ratio Is Structurally Depressed



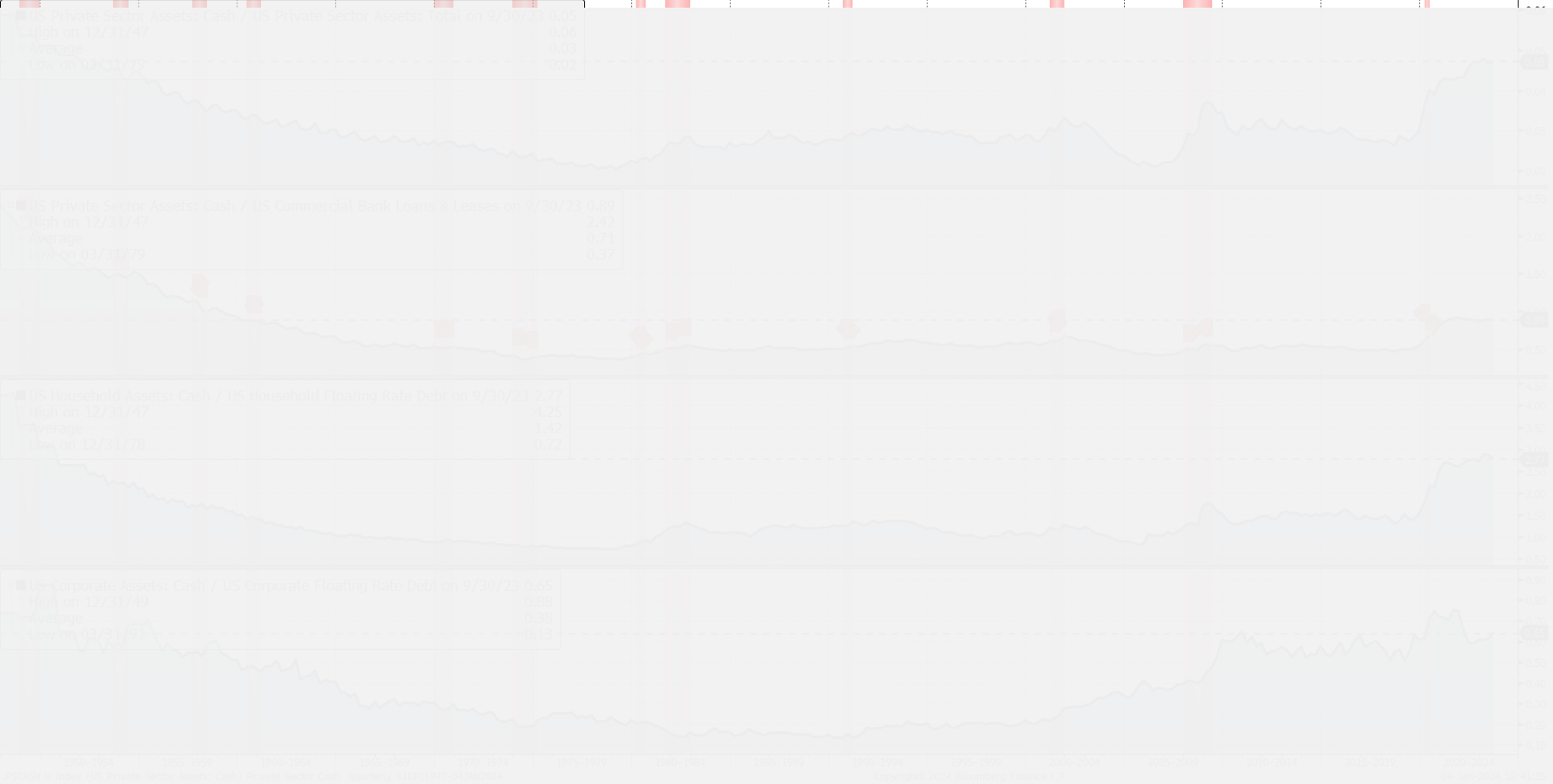
Corporate Balance Sheets Remain Flush With Cash



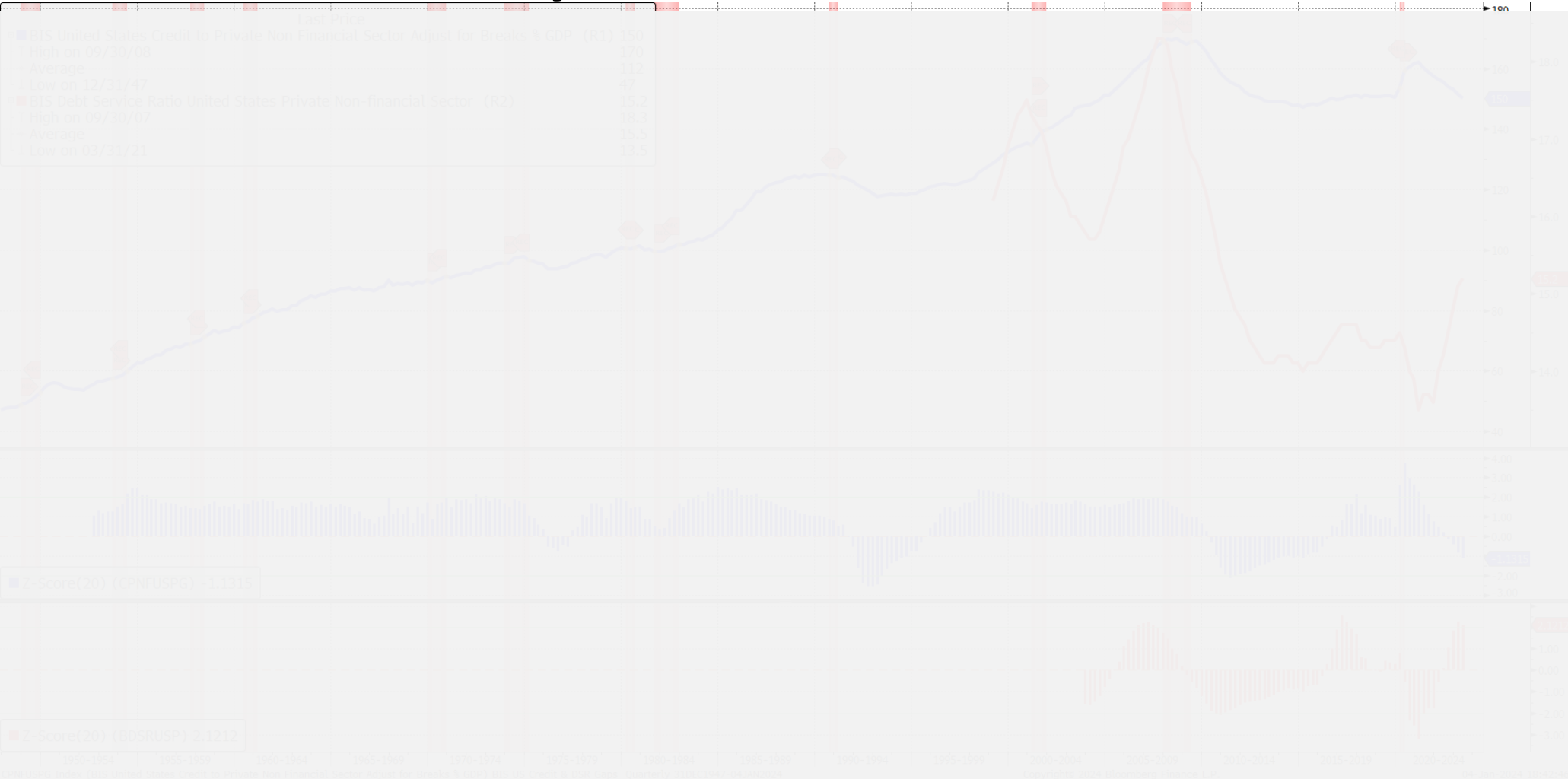
The Corporate Debt Service Ratio Is Well Shy Of Recession-Inducing Levels And Is Unlikely To Deteriorate Further Given Policy Easing And Improving Profitability



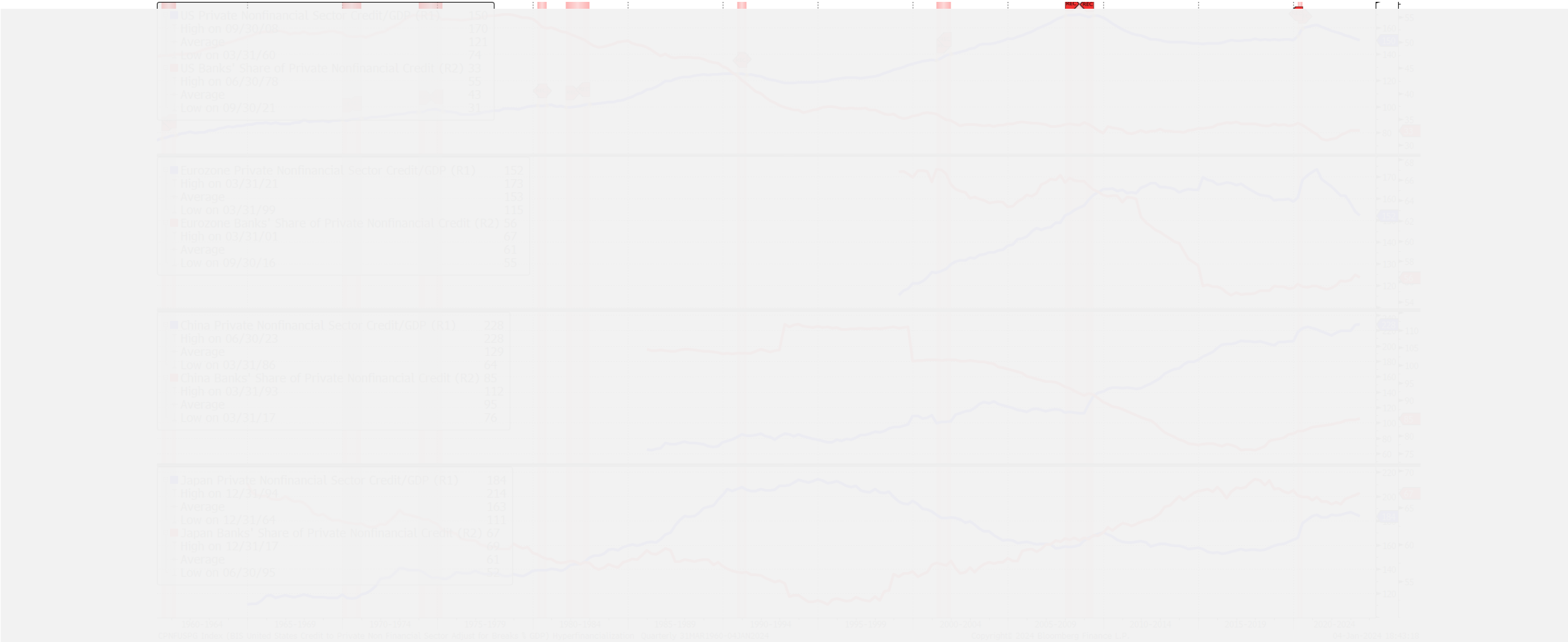
A Favorable Asset-Liability Mix Has Made The Private Sector As Immunized To Rate Hikes As It Has Been Since The 1950s



Reminder, This Has Been An Income-Driven Business Cycle, Not A Credit Driven Business Cycle... Focus On Income, Not Credit



Speaking Of Credit, Easing Financial Conditions Currently Signal The “Maturity Wall” Can Is Likely To Be Kicked Down The Road In The Hyperfinancialized US Economy



“Maturity Walls” Turn Into “Maturity Turnstiles” When Liquidity Is Rising And Animal Spirits Are Robust

US Speculative-Grade Debt Annual Maturity Profile \$bn



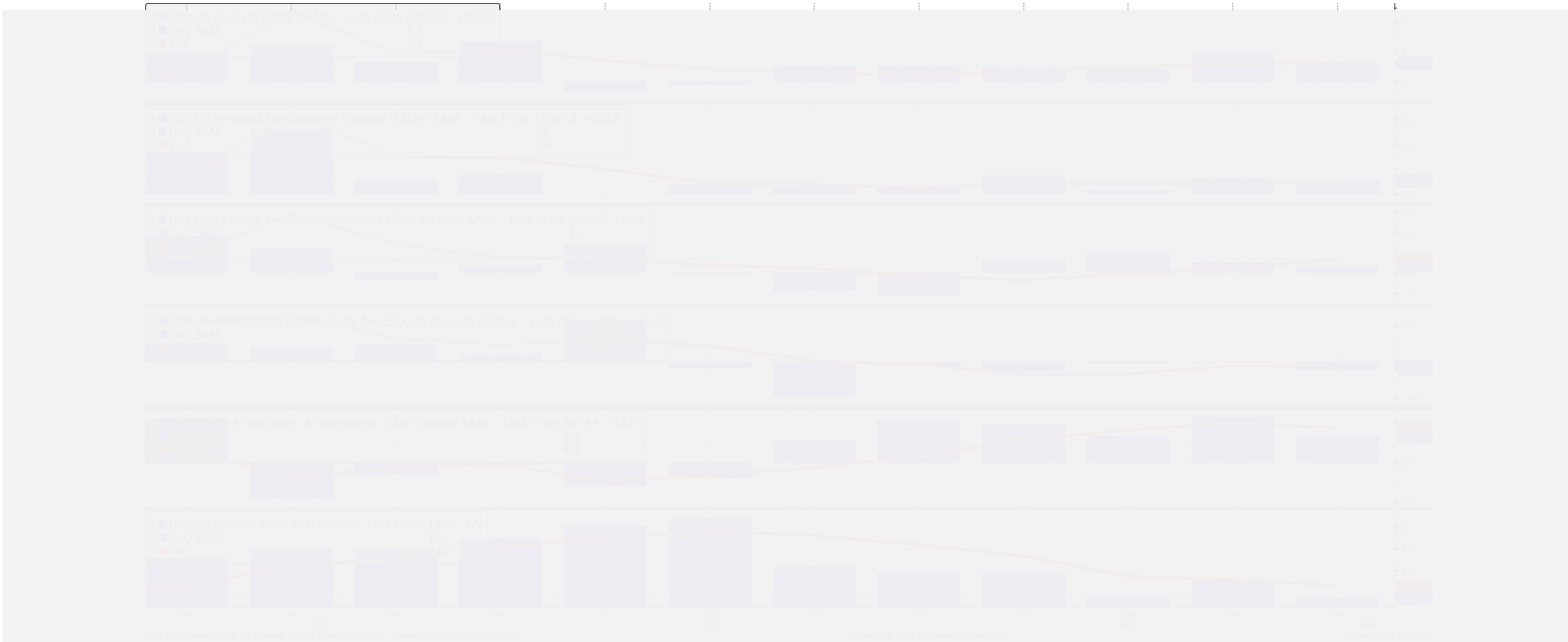
© 42 Macro LLC. Data Source: FTI Consulting, S&P Global.

S&P 500 [\\$SPY](#) 2013 Total Return: **+32%**.

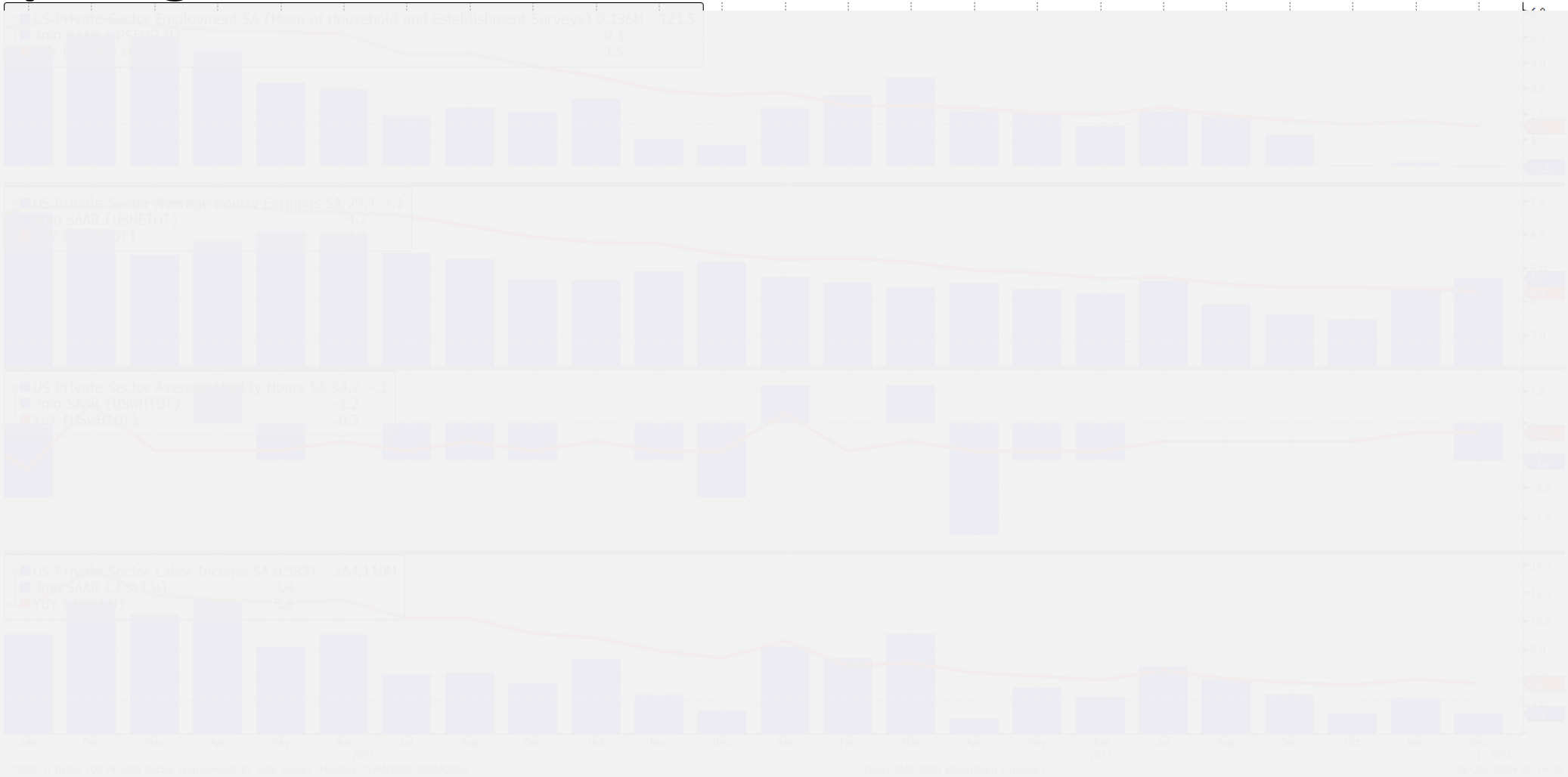
High Yield Credit [\\$HYG](#) 2013 Total Return: **+6%**.

Leveraged Loans [\\$BKLN](#) 2013 Total Return: **+4%**.

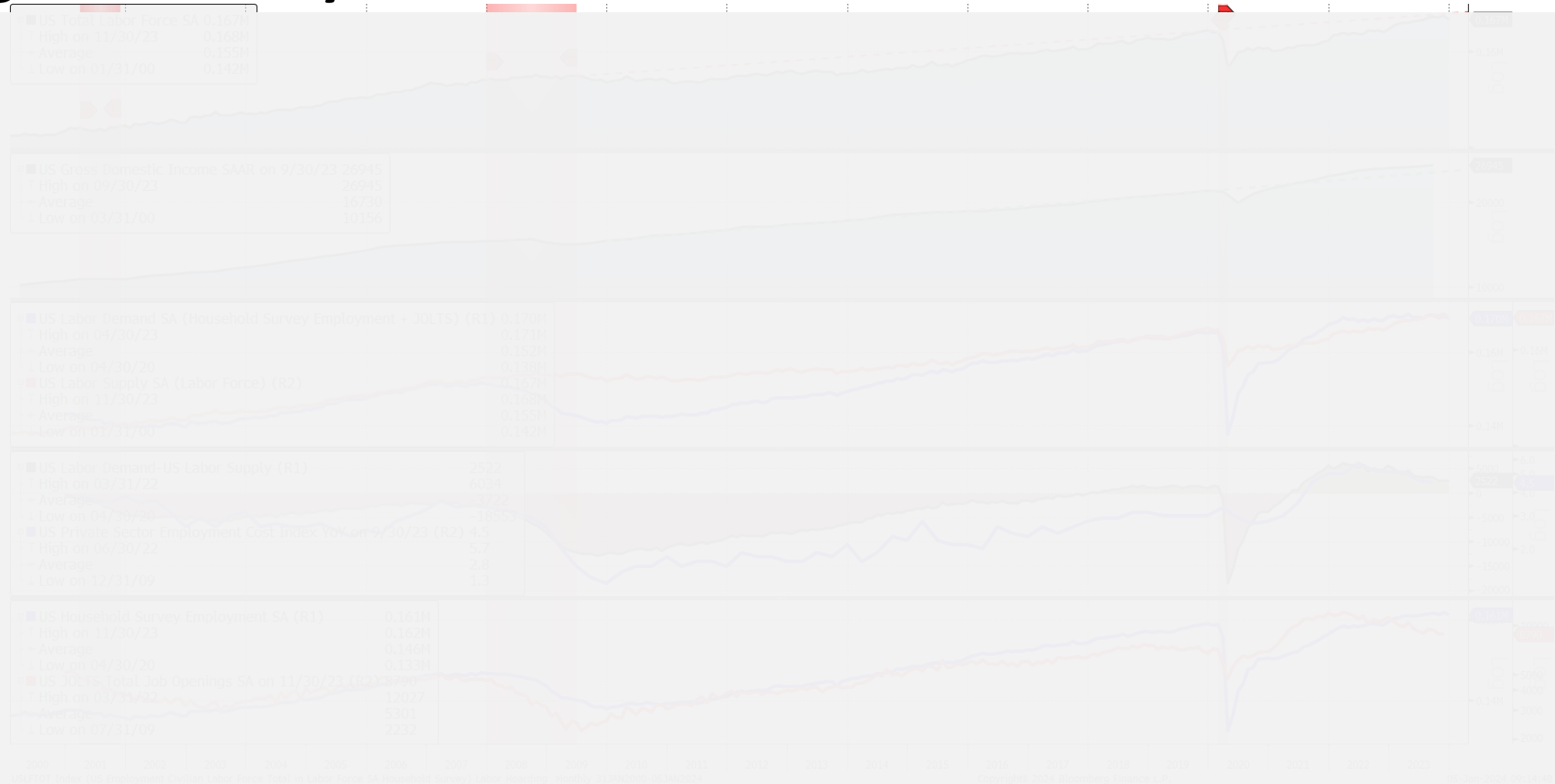
As Such, The US Economy Remains Resilient (For Now)



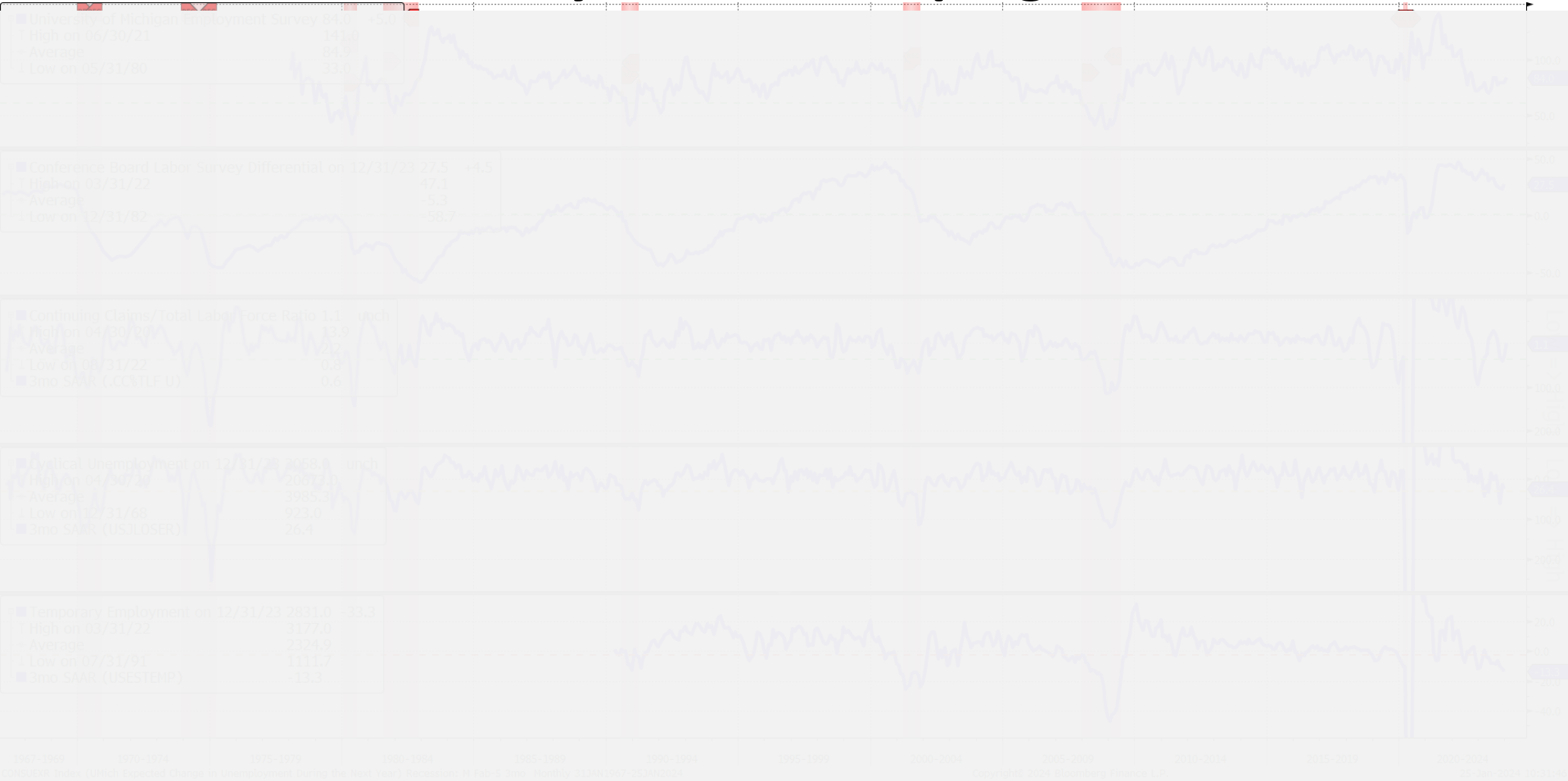
Per Our Expectation, The Resiliency Of The Economy Began Dissipating In 4Q23



Labor Hoarding Has Spared The Business Cycle Thus Far... How Long Will This Dynamic Persist?



The 42 Macro “Fab Five” Recession Signaling Indicators Currently Indicate A Low Probability Of A Developing Recession



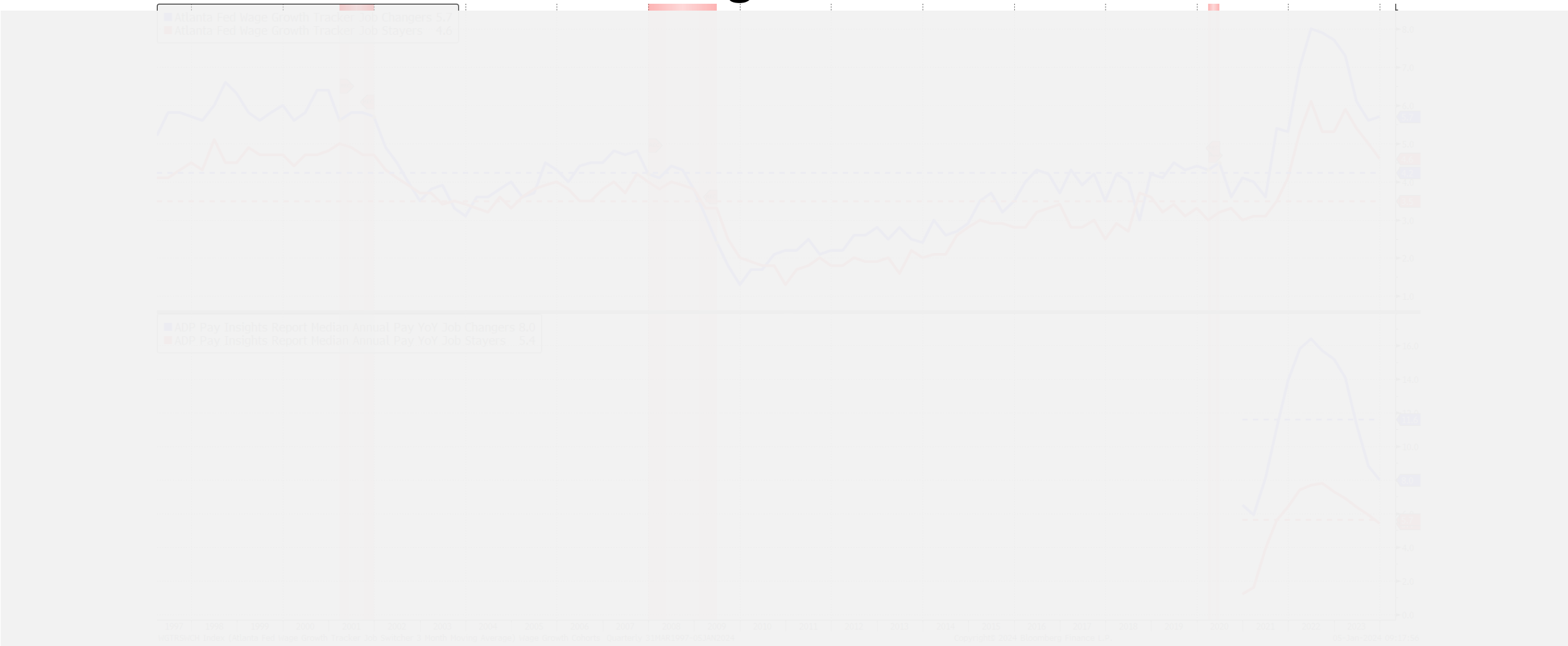
Initial And Continuing Jobless Claims Currently Indicate A Low Probability Of A Developing Recession



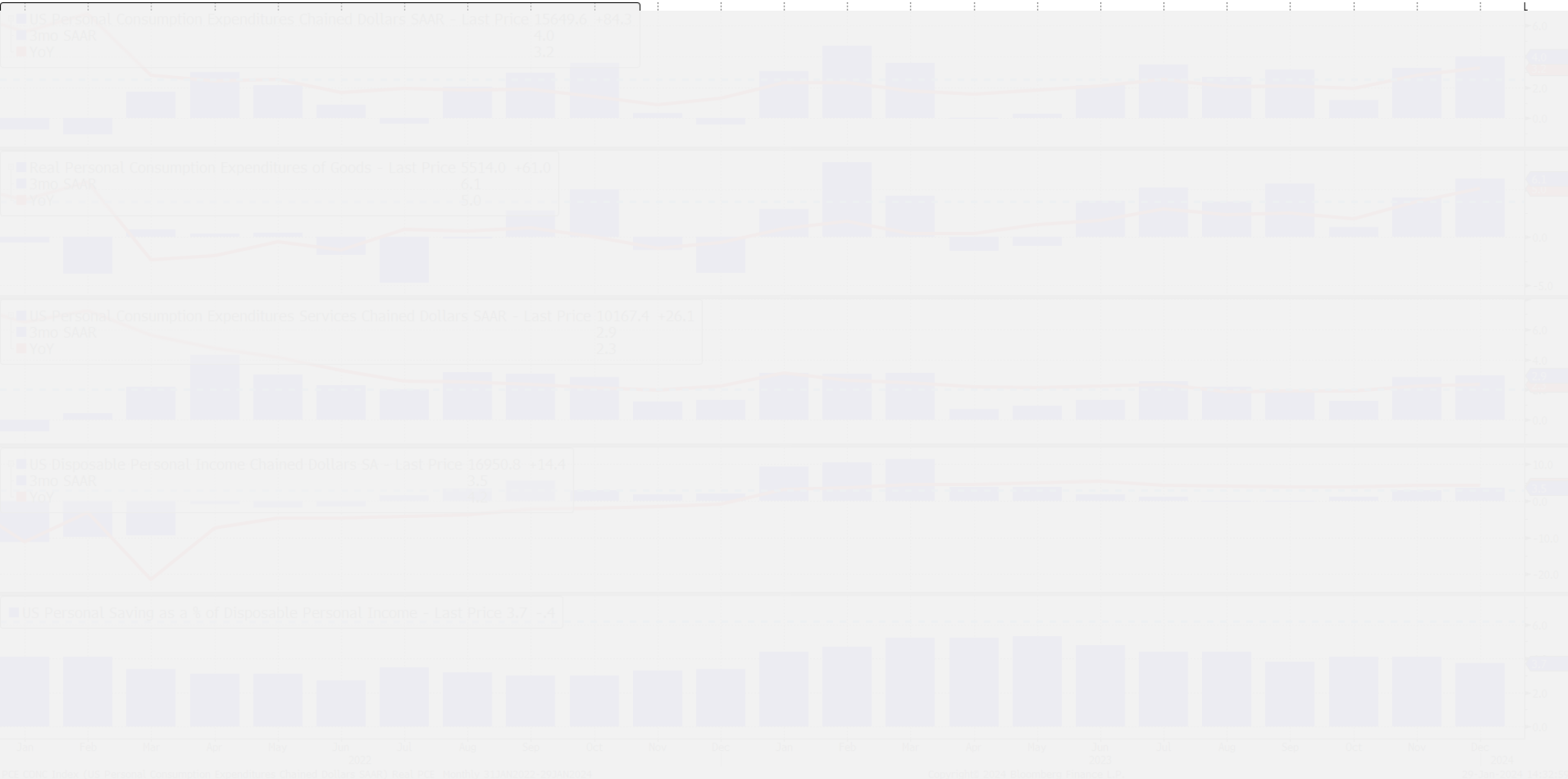
Lower Worker Turnover Is Supportive Of The Economic Expansion



Workers That Change Jobs Experience Faster Wage Growth, So Less Turnover Should Slow Wage Growth In The Months Ahead



Positive Income Growth Means The US Consumer Remains Resilient – For Now



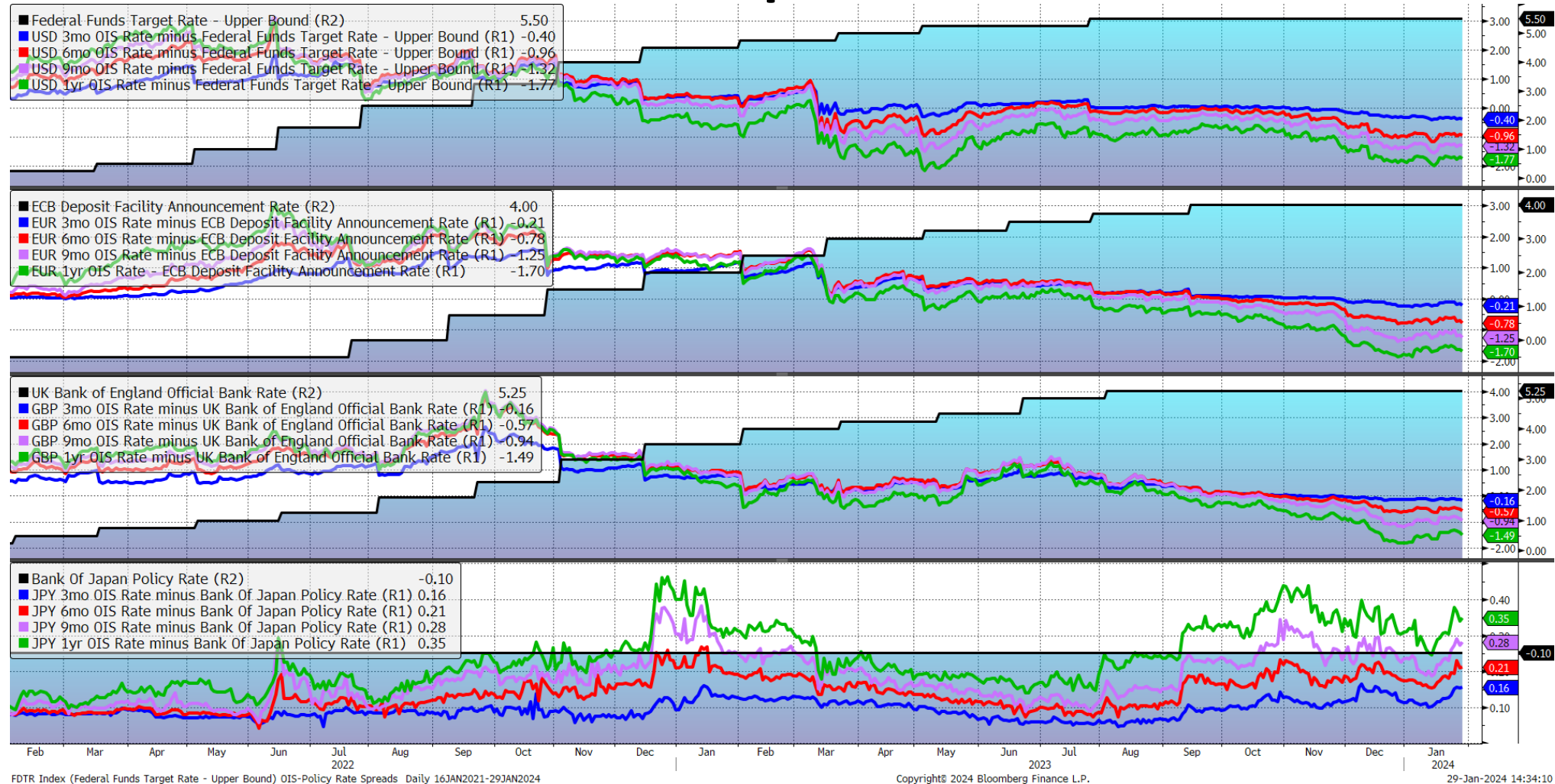
Fiscal Stimulus Has Been A Major Contributing Factor To The Resiliency Of Household Income... This Dynamic Is Dissipating At The Margins, But Is Unlikely To Fall Off A Cliff

42 Macro US Fiscal Policy Monitor	Nominal YTD Sum \$bn					Share of Total, by Category					YoY % Change					Trailing 10yr Z-Score of YoY % Δ				
	2019	2020	2021	2022	2023	2019	2020	2021	2022	2023	2019	2020	2021	2022	2023	2019	2020	2021	2022	2023
Federal Revenue	\$3497.5	\$3416.8	\$4294.5	\$4869.8	\$4521.3	100%	100%	100%	100%	100%	5%	-2%	26%	13%	-7%	(0.1)	(1.4)	2.3	0.7	(1.3)
Corporate Income Taxes	\$242.5	\$215.3	\$401.6	\$431.6	\$464.1	7%	6%	9%	9%	10%	24%	-11%	87%	7%	8%	0.6	(0.7)	2.3	(0.1)	(0.0)
Customs Duties	\$74.1	\$65.6	\$85.6	\$98.0	\$77.4	2%	2%	2%	2%	2%	49%	-12%	31%	15%	-21%	1.9	(1.2)	0.9	0.0	(1.4)
Estate Taxes	\$16.3	\$19.2	\$27.6	\$33.0	\$35.1	0%	1%	1%	1%	1%	-29%	18%	44%	20%	6%	(1.0)	0.4	1.2	0.4	(0.0)
Excise Taxes	\$90.1	\$81.9	\$80.1	\$88.2	\$76.8	3%	2%	2%	2%	2%	-14%	-9%	-2%	10%	-13%	(1.6)	(0.9)	(0.3)	0.7	(1.0)
Federal Reserve Transfers	\$54.4	\$89.9	\$103.7	\$80.4	\$0.7	2%	3%	2%	2%	0%	-18%	65%	15%	-22%	-99%	(0.8)	2.2	0.3	(0.9)	(2.1)
Individual Income Taxes	\$1729.9	\$1570.8	\$2232.8	\$2601.3	\$2196.9	49%	46%	52%	53%	49%	4%	-9%	42%	17%	-16%	(0.7)	(2.1)	2.6	0.6	(1.4)
Miscellaneous Receipts	\$86.0	\$126.8	\$134.5	\$113.5	\$35.5	2%	4%	3%	2%	1%	-19%	48%	6%	-16%	-69%	(1.0)	1.9	0.0	(0.8)	(2.0)
Other Retirement Taxes	\$4.9	\$5.3	\$5.8	\$6.3	\$7.1	0%	0%	0%	0%	0%	5%	10%	8%	9%	14%	0.5	1.2	0.7	0.6	1.7
Social Security Taxes	\$1213.1	\$1285.0	\$1263.8	\$1439.9	\$1579.7	35%	38%	29%	30%	35%	7%	6%	-2%	14%	10%	0.4	0.2	(1.3)	1.2	1.0
Unemployment Insurance Premiums	\$40.7	\$46.9	\$62.8	\$58.2	\$48.7	1%	1%	1%	1%	1%	-9%	15%	34%	-7%	-16%	(0.8)	1.4	2.3	(0.5)	(1.1)
Federal Expenditures	\$4519.5	\$6765.0	\$6874.8	\$6289.0	\$6305.0	100%	100%	100%	100%	100%	8%	50%	2%	-9%	0%	1.3	2.8	(0.4)	(1.0)	(0.5)
Administration of Justice	\$65.6	\$72.9	\$71.8	\$73.7	\$82.8	1%	1%	1%	1%	1%	2%	11%	-1%	3%	12%	(0.1)	1.7	(0.8)	(0.0)	1.7
Agriculture	\$40.2	\$58.0	\$31.8	\$37.7	\$35.6	1%	1%	0%	1%	1%	56%	44%	-45%	19%	-6%	1.8	1.4	(1.8)	0.4	(0.4)
Commerce and Housing Credits	(\$13.1)	\$572.0	\$301.7	(\$21.2)	\$160.5	-0%	8%	4%	-0%	3%	-86%	4475%	-47%	-107%	856%	(0.1)	2.8	(0.3)	(0.3)	0.2
Community and Regional Development	\$27.5	\$95.7	\$46.8	\$68.1	\$86.8	1%	1%	1%	1%	1%	-24%	248%	-51%	46%	27%	(1.1)	2.7	(0.9)	0.2	(0.0)
Education, Training, Employment, and Social Services	\$136.2	\$241.0	\$314.7	\$692.9	(\$16.8)	3%	4%	5%	11%	-0%	39%	77%	31%	120%	-102%	1.0	1.8	0.4	2.0	(2.1)
Energy	\$7.0	\$7.6	\$5.1	(\$12.1)	\$5.3	0%	0%	0%	-0%	0%	338%	9%	-34%	-340%	144%	2.6	(0.1)	(0.4)	(2.0)	0.9
General Budget	\$20.1	\$183.5	\$266.0	\$132.4	\$29.8	0%	3%	4%	2%	0%	7%	814%	45%	-50%	-77%	0.2	2.8	(0.2)	(0.5)	(0.6)
General Science, Space, and Technology	\$33.1	\$34.5	\$35.9	\$38.2	\$41.7	1%	1%	1%	1%	1%	4%	4%	4%	7%	9%	0.5	1.1	0.8	1.4	2.2
Health	\$586.8	\$789.8	\$835.9	\$909.2	\$889.0	13%	12%	12%	14%	14%	10%	35%	6%	9%	-2%	0.5	2.2	(0.3)	(0.2)	(1.1)
Income Security	\$518.0	\$1352.8	\$1670.0	\$813.0	\$741.8	11%	20%	24%	13%	12%	3%	161%	23%	-51%	-9%	0.7	2.8	0.1	(1.2)	(0.4)
International Affairs	\$52.4	\$70.0	\$46.0	\$76.9	\$68.1	1%	1%	1%	1%	1%	9%	34%	-34%	67%	-12%	0.8	2.6	(2.1)	2.2	(0.7)
Medicare	\$663.2	\$781.5	\$693.8	\$737.0	\$865.5	15%	12%	10%	12%	14%	8%	18%	-11%	6%	17%	1.8	2.6	(2.2)	0.3	1.4
National Defense	\$709.6	\$734.3	\$757.3	\$774.6	\$844.3	16%	11%	11%	12%	13%	6%	3%	3%	2%	9%	1.0	0.6	0.4	0.2	1.4
Natural Resource and Environment	\$37.9	\$41.8	\$41.6	\$39.5	\$48.9	1%	1%	1%	1%	1%	7%	10%	-1%	-5%	24%	0.8	1.1	(0.1)	(0.6)	2.1
Net Interest	\$375.4	\$332.6	\$366.7	\$517.7	\$730.4	8%	5%	5%	8%	12%	10%	-11%	10%	41%	41%	0.3	(1.5)	0.5	2.1	1.6
Social Security	\$1059.2	\$1132.3	\$1119.8	\$1243.7	\$1392.0	23%	17%	16%	20%	22%	6%	7%	-1%	11%	12%	0.4	0.6	(1.6)	1.6	1.4
Transportation	\$97.3	\$151.6	\$154.2	\$132.8	\$128.9	2%	2%	2%	2%	2%	3%	56%	2%	-14%	-3%	0.8	2.8	(0.3)	(1.0)	(0.4)
Undistributed Offsetting Receipts	(\$100.1)	(\$110.4)	(\$127.8)	(\$235.7)	(\$143.0)	-2%	-2%	-2%	-4%	-2%	0%	-10%	-16%	-84%	39%	0.2	(0.4)	(0.7)	(2.5)	1.5
Veterans Benefits and Services	\$203.3	\$223.7	\$240.2	\$270.6	\$313.3	4%	3%	3%	4%	5%	7%	10%	7%	13%	16%	(0.3)	1.2	0.3	2.0	2.0
Federal Budget Balance	(\$1022.0)	(\$3348.2)	(\$2580.4)	(\$1419.2)	(\$1783.7)	100%	100%	100%	100%	100%	-17%	-228%	23%	45%	-26%	(0.8)	(2.7)	0.6	0.8	(0.0)
YoY Nominal Δ of Federal Budget Deficit					\$364															

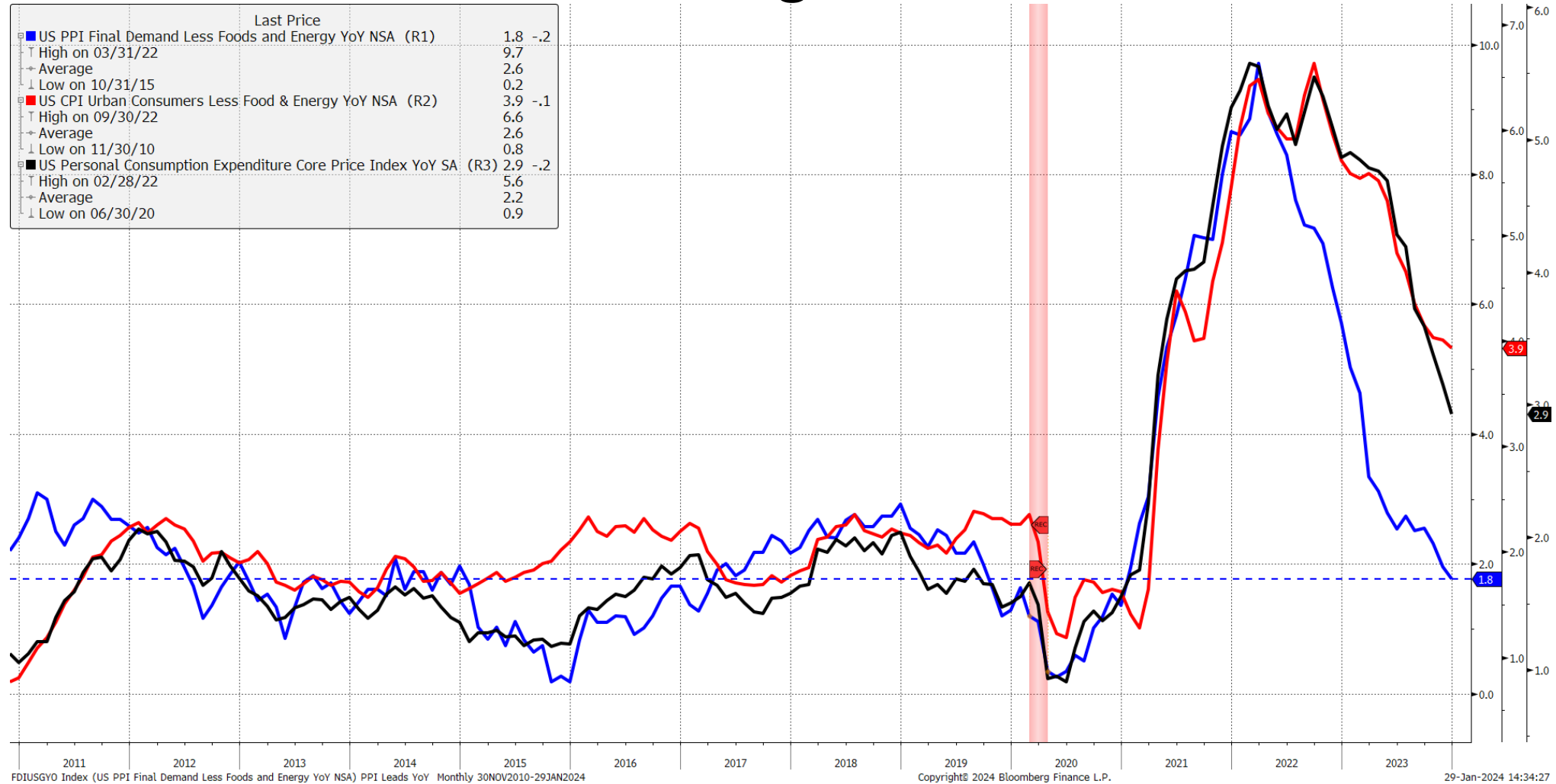
© 42 Macro LLC. Data Source: Bloomberg, NBC News. 2023 COLA = 8.7%. 2024 COLA estimate = 3.2%.

YoY Nominal Δ in the Federal Budget Deficit = +\$834bn in June, +\$535bn in August, +\$276bn in September, +\$255bn in October, +\$320bn in November, and +\$364bn in December.

Considerable Monetary Easing Has Been Priced Into Money Markets... Are Those Rate Cut Expectations Warranted?



Broad-Based Producer Price Disinflation Is Supportive Of Market Expectations For Rate Cuts Throughout 2024

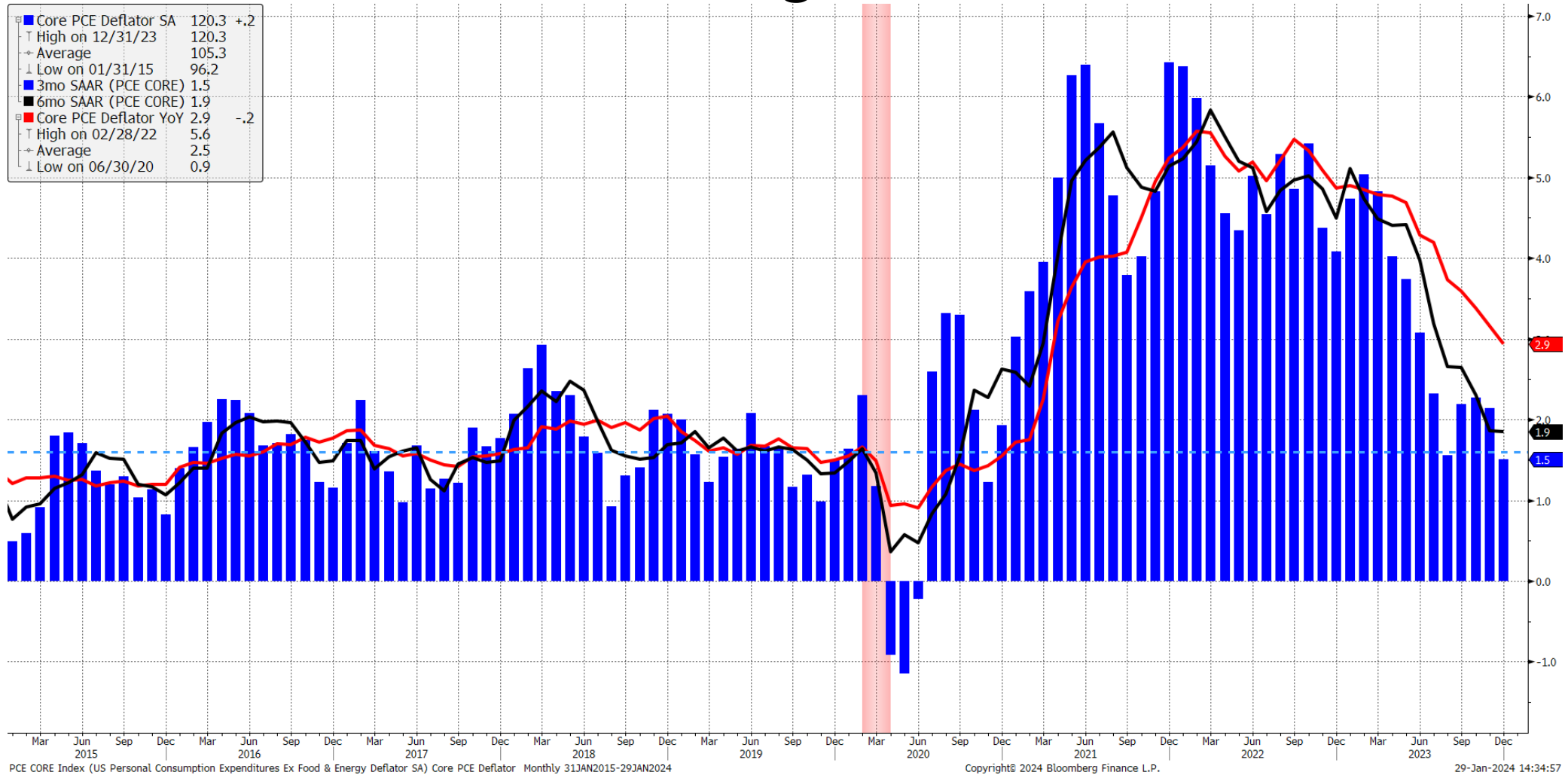


FDIUSGV0 Index (US PPI Final Demand Less Foods and Energy YoY NSA) PPI Leads YoY Monthly 30NOV2010-29JAN2024

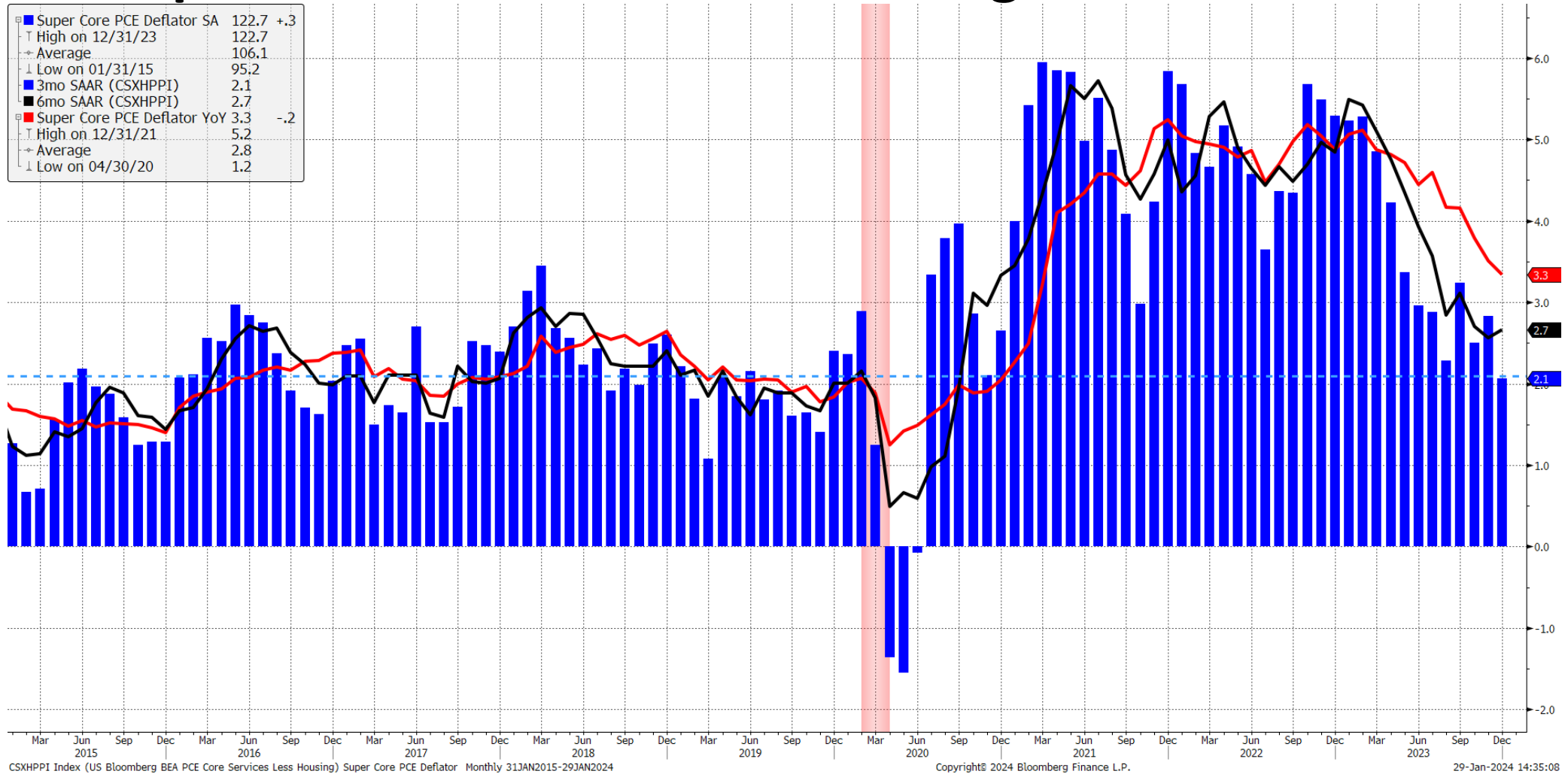
Copyright© 2024 Bloomberg Finance L.P.

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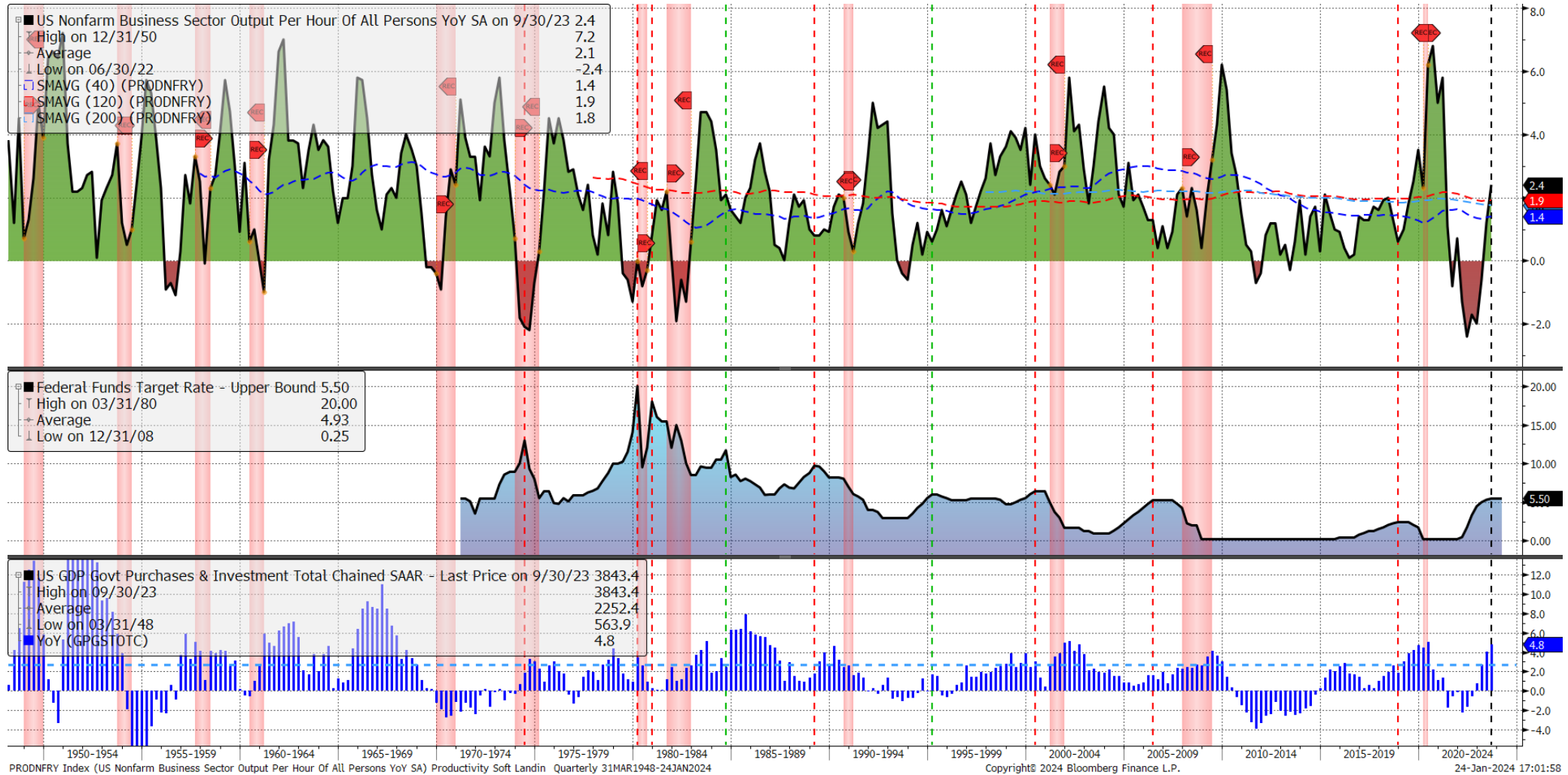
“Immaculate Disinflation” In Core PCE Is Supportive Of Market Expectations For Rate Cuts Throughout 2024



“Immaculate Disinflation” In Super Core PCE Is Supportive Of Market Expectations For Rate Cuts Throughout 2024

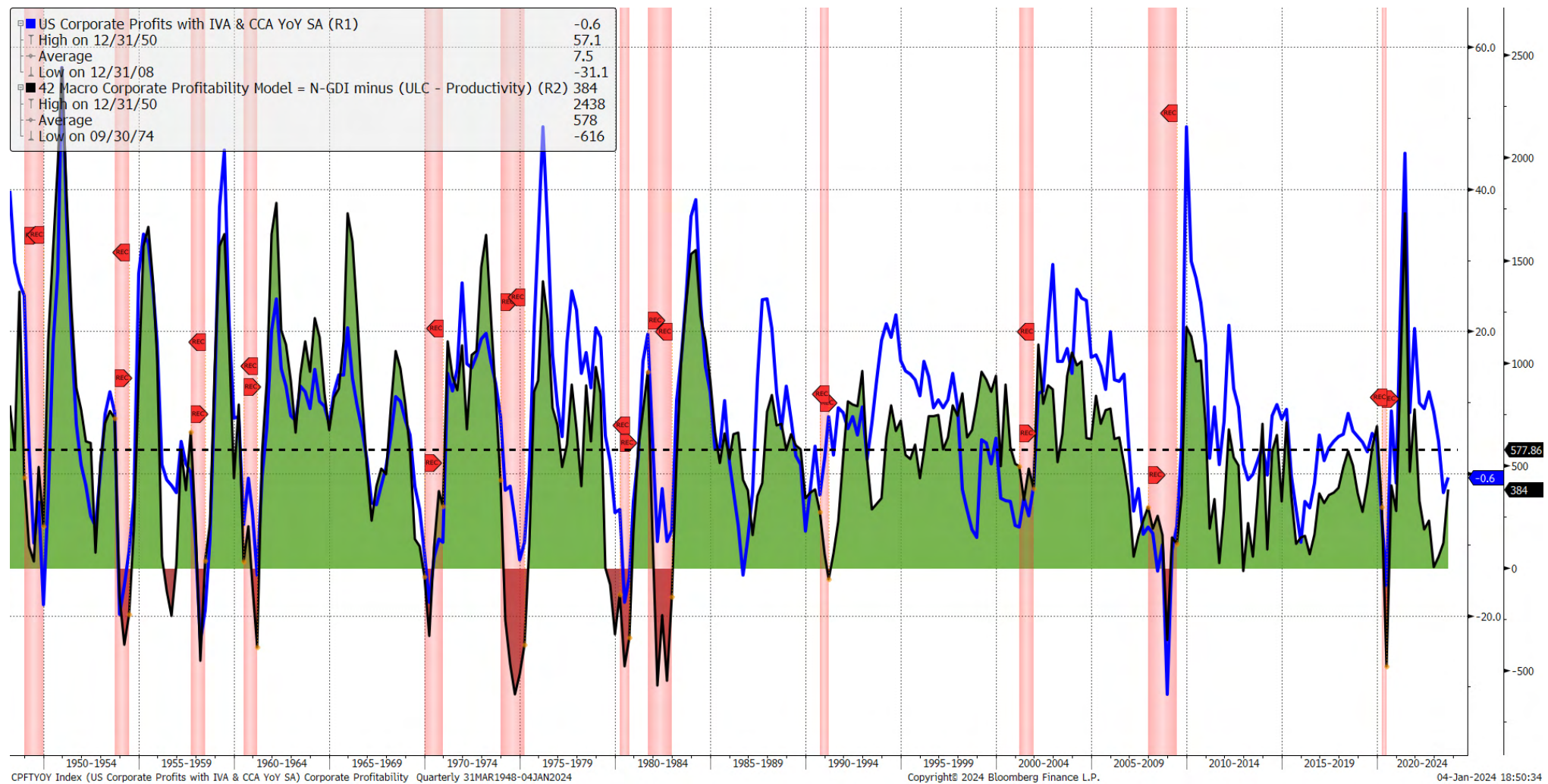


Alongside Fiscal And Monetary Easing, The Sharp Recovery In Productivity Growth Increases The Probability Of A Soft Landing In The US Economy

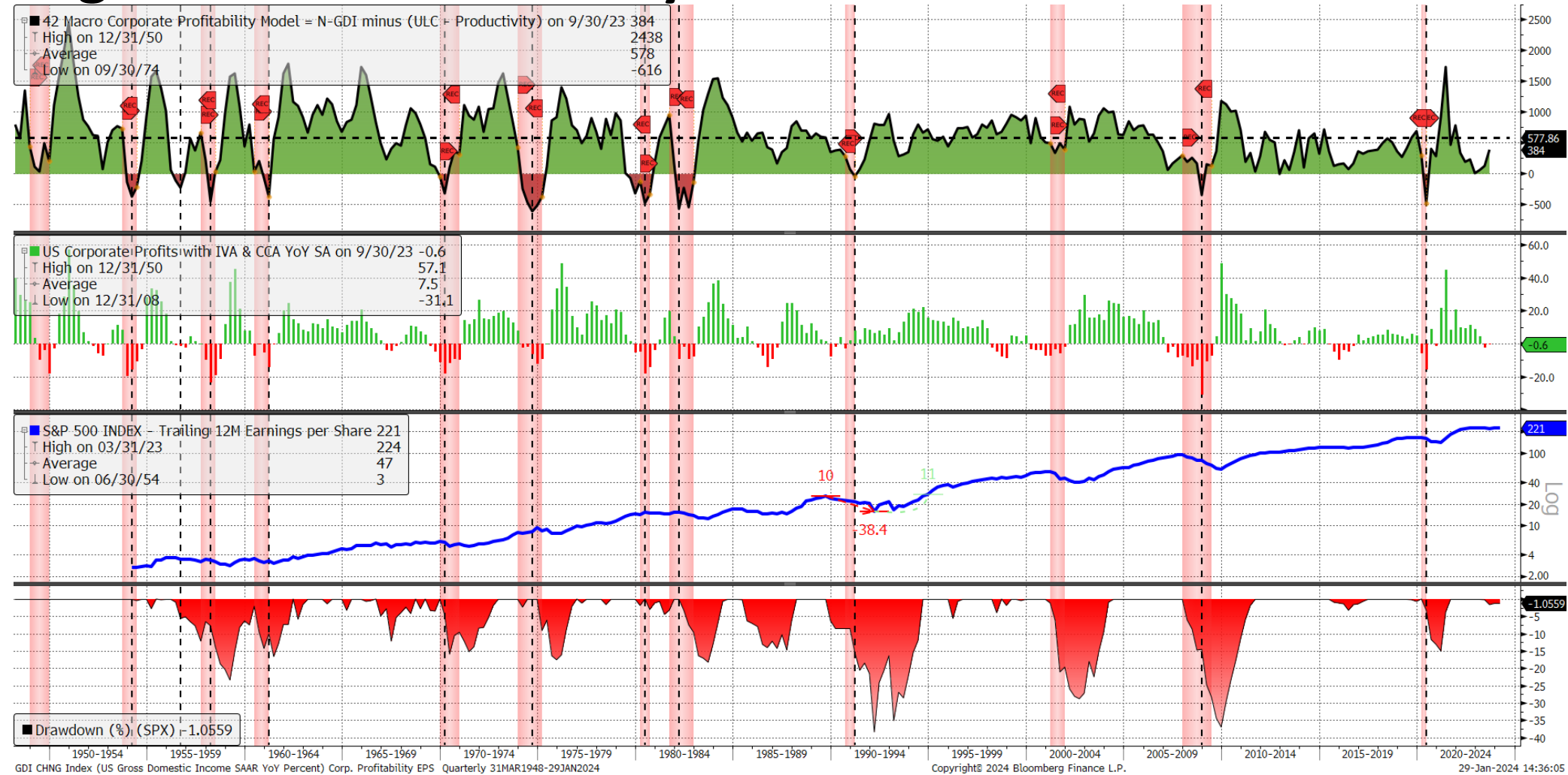


© 42 Macro LLC. Data Source: Bloomberg. Dotted red lines indicate “hard” landing. Dotted green lines indicate “soft” landing. Dotted light blue line indicates long-term average of the YoY growth rate of Gov’t Purchases & Investment. The Fed has achieved soft landing in only 2 of the 9 previous tightening cycles (22%). What do the mid-1980s and mid-1990s soft landings have in common? Sustained above-trend productivity growth that was supported by a quick pivot to rate cuts and/or above-trend government expenditures and investment.

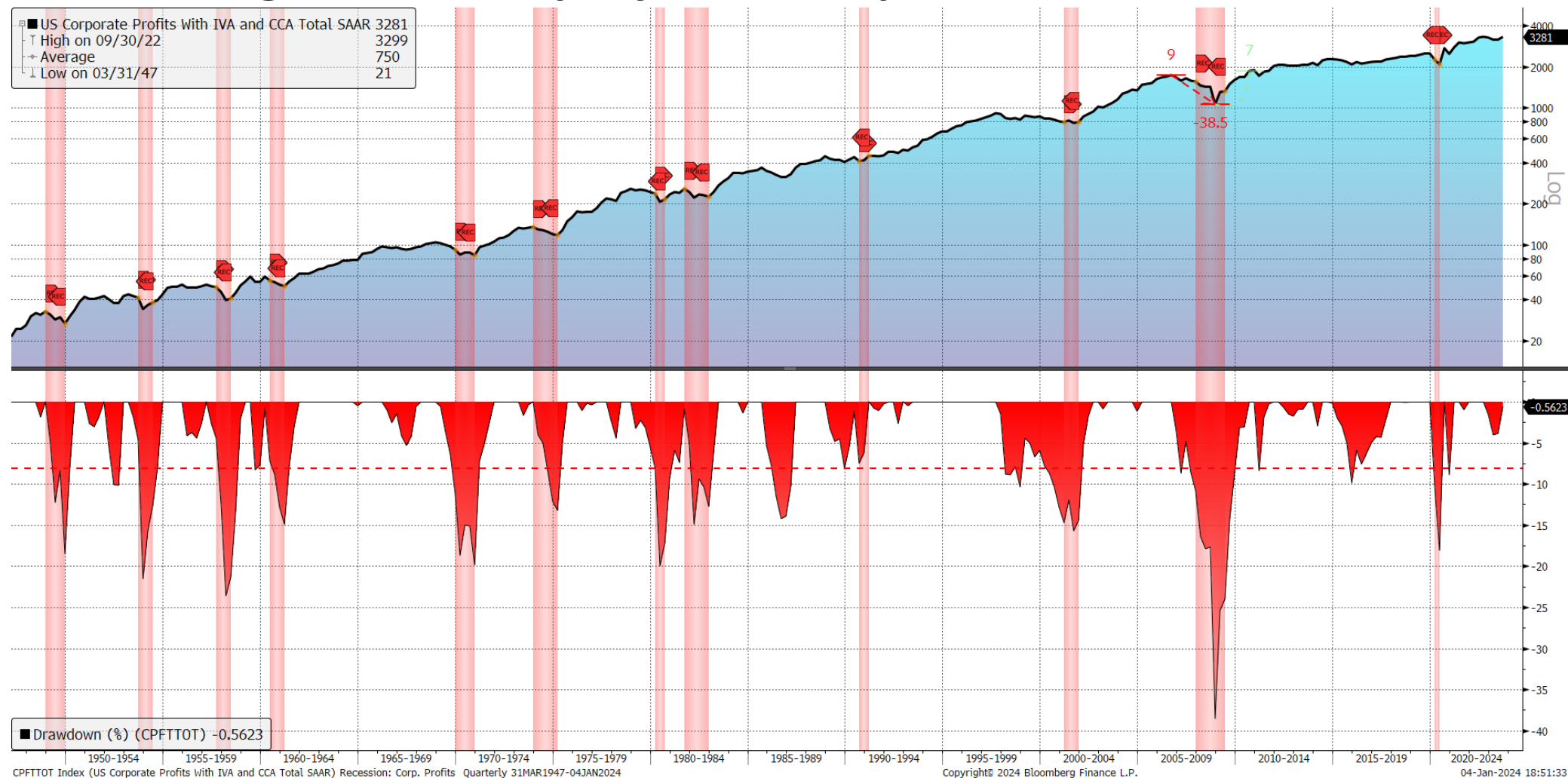
Corporate Profitability Is Broadly Improving, Reducing The Need For Corporations To Shed Costs And/Or Pass On Price Increases To Consumers



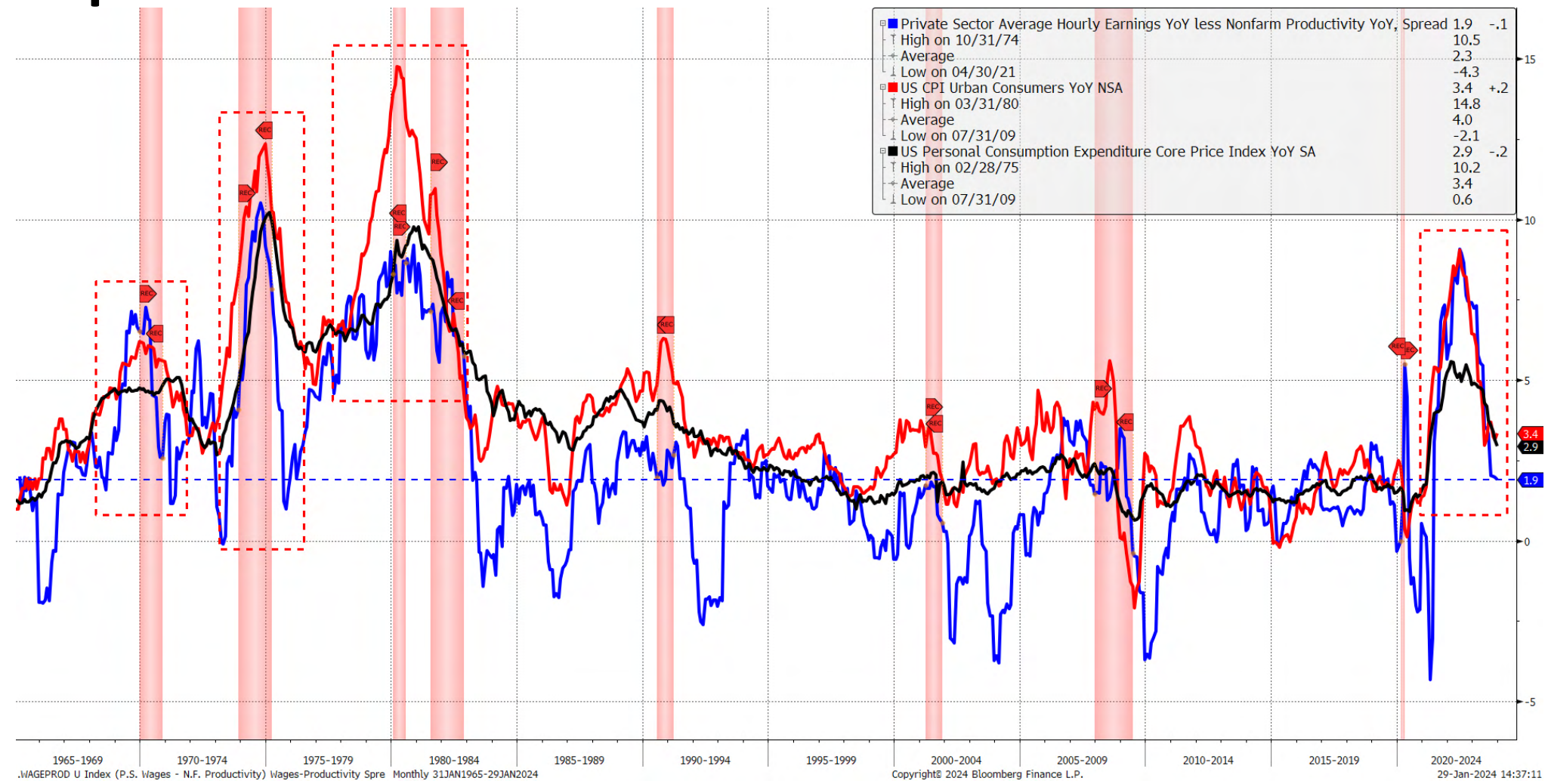
The 42 Macro Corporate Profitability Model Indicates A Deep Earnings Recession Has Likely Been Avoided



Corporate Profits Failed To Draw Down Materially Enough To Perpetuate The Mass Firing And Unemployment Required For A Recession



The Improvement In Productivity Growth Also Reduces The Need For Corporations To Pass On Price Increases To Consumers

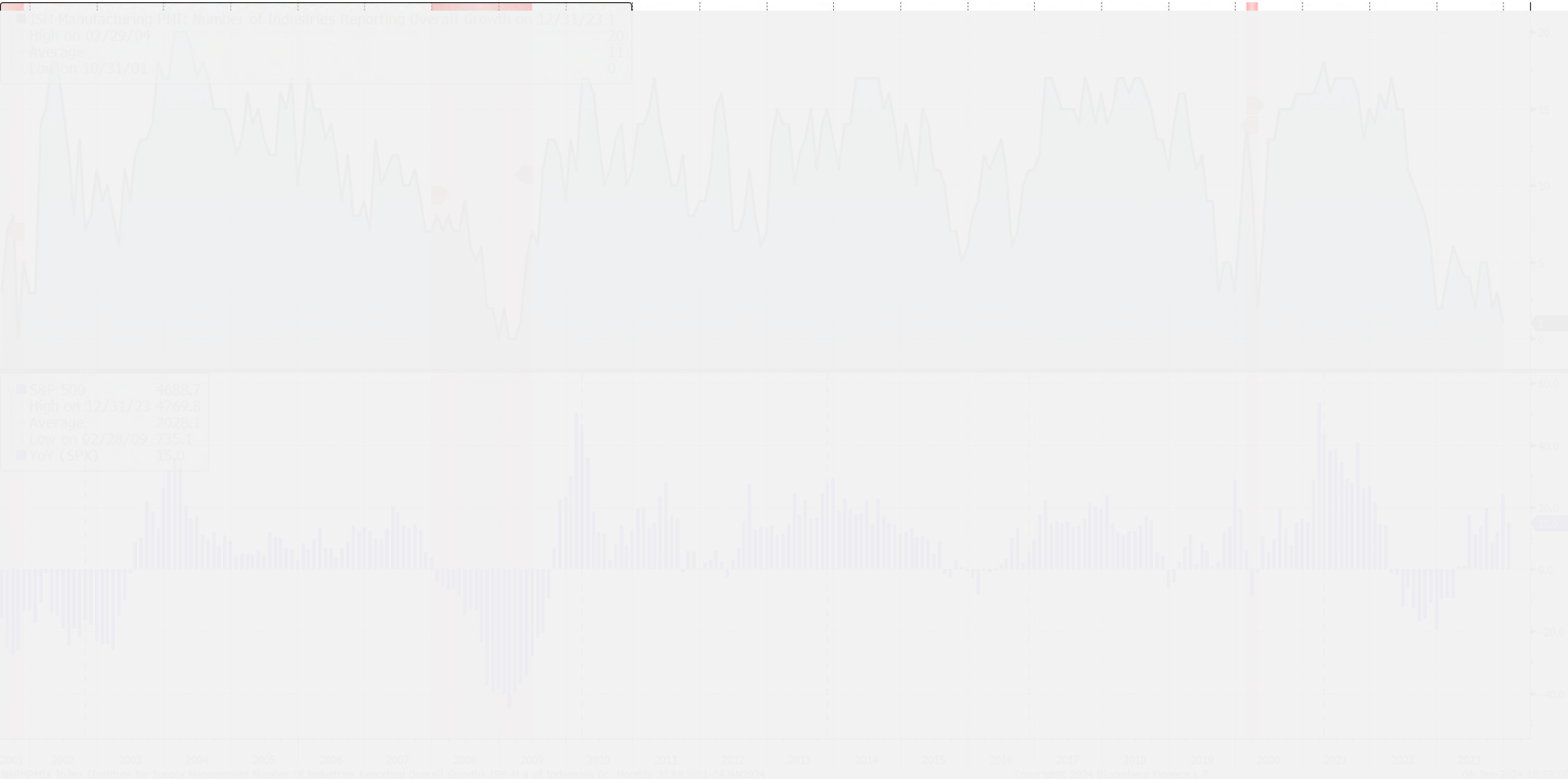


Right Tail Risks

Stocks Typically Perform Well Into Presidential Elections – Especially When An Incumbent Democrat Is On The Ballot

	10 Days 10/26/2024-11/5/2024	11 Days 11/6-19/24	12 Days 11/20-30/24	13 Days 12/1-13/24	14 Days 12/14-27/24	15 Days 12/28-1/9/25	16 Days 1/10-21/25	17 Days 1/22-3/2/25	18 Days 3/3-13/25	19 Days 3/14-23/25	20 Days 3/24-4/3/25	21 Days 4/4-14/25	22 Days 4/15-25/25	23 Days 4/26-5/6/25	24 Days 5/7-17/25	25 Days 5/18-28/25
11/2/1948	3%	8%	5%													
11/4/1952	7%	4%	-3%													
11/6/1956	8%	-3%	-3%	100bps	25bps	50bps										
11/8/1960	-4%	1%	-1%	-150bps	-75bps	25bps										
11/9/1964	15%	6%	3%	0bps	0bps	0bps	0bps	-75bps	40bps							
11/5/1968	12%	5%	6%	100bps	0bps	50bps	-12bps	-17bps	26bps							
11/7/1972	21%	7%	3%	50bps	125bps	75bps	55bps	10bps	13bps	8%	0%	0%	-4%	1%	1%	
11/2/1976	16%	1%	-6%	12bps	12bps	-13bps	-53bps	-26bps	-47bps	0%	0%	0%	4%	-10%	-40%	
11/4/1980	26%	22%	7%	175bps	225bps	425bps	174bps	222bps	177bps	67%	7%	7%	0%	6%	3%	
11/6/1984	5%	7%	5%	50bps	-50bps	-100bps	-25bps	-147bps	-115bps	-6%	-6%	3%	10%	7%	1%	
11/8/1988	10%	7%	2%	137bps	150bps	50bps	11bps	-13bps	23bps	-32%	15%	17%	3%	5%	-5%	
11/3/1992	7%	2%	-1%	-200bps	-75bps	25bps	-62bps	-70bps	14bps	-12%	-1%	-6%	-0%	-1%	8%	
11/5/1996	21%	11%	8%	50bps	0bps	0bps	13bps	63bps	27bps	32%	10%	14%	4%	3%	1%	
11/7/2000	4%	0%	-3%	125bps	50bps	0bps	-6bps	-64bps	-9bps	50%	27%	19%	15%	4%	4%	
11/2/2004	8%	2%	2%	75bps	75bps	50bps	-25bps	-46bps	-40bps	78%	38%	18%	-8%	-6%	-3%	
11/4/2008	-33%	-19%	-19%	-350bps	-100bps	-100bps	-59bps	-13bps	-24bps	-28%	-40%	-45%	11%	15%	15%	
11/6/2012	14%	4%	2%	0bps	0bps	0bps	-28bps	-13bps	18bps	-7%	-8%	-2%	5%	1%	-8%	
11/8/2016	2%	4%	-2%	25bps	0bps	0bps	-47bps	8bps	26bps	1%	2%	13%	-1%	4%	2%	
11/3/2020	10%	19%	2%	-150bps	0bps	0bps	-81bps	29bps	35bps	-34%	90%	-11%	-4%	-4%	0%	
11/5/2024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MIN	-33%	-19%	-19%	-350bps	-100bps	-100bps	-81bps	-147bps	-115bps	-34%	-40%	-45%	8%	6%	5%	
1st QUARTILE	6%	2%	-2%	-150bps	0bps	0bps	-50bps	-94bps	-25bps	-12%	-6%	-6%	-1%	-1%	-1%	
MEDIAN	8%	4%	2%	12bps	0bps	0bps	-25bps	-13bps	-4bps	0%	0%	0%	3%	1%	1%	
3rd QUARTILE	15%	7%	4%	75bps	50bps	50bps	5bps	0bps	22bps	32%	10%	13%	5%	4%	3%	
MAX	26%	22%	8%	137bps	225bps	425bps	174bps	222bps	177bps	78%	90%	19%	15%	19%	15%	
PERCENT POSITIVE	89%	84%	58%	53%	41%	41%	27%	27%	47%	46%	46%	46%	62%	54%	69%	
PERCENT NEGATIVE	11%	16%	42%	35%	24%	24%	67%	73%	53%	46%	38%	38%	38%	46%	31%	
DEMOCRAT INCUMBENT RUNNING (n=5)	15%	8%	5%	-75bps	0bps	0bps	17bps	-10bps	7bps	32%	7%	7%	4%	0%	1%	
REPUBLICAN INCUMBENT RUNNING (n=7)	8%	2%	2%	50bps	12bps	0bps	-39bps	-37bps	-15bps	-3%	0%	0%	-2%	-10%	0%	
Data Source: Bloomberg, UVA Center for Politics. All summary statistics featured in the bottom clusters of rows are MEDIAN values unless denoted otherwise. Intellectual Property of 42 Macro LLC.																

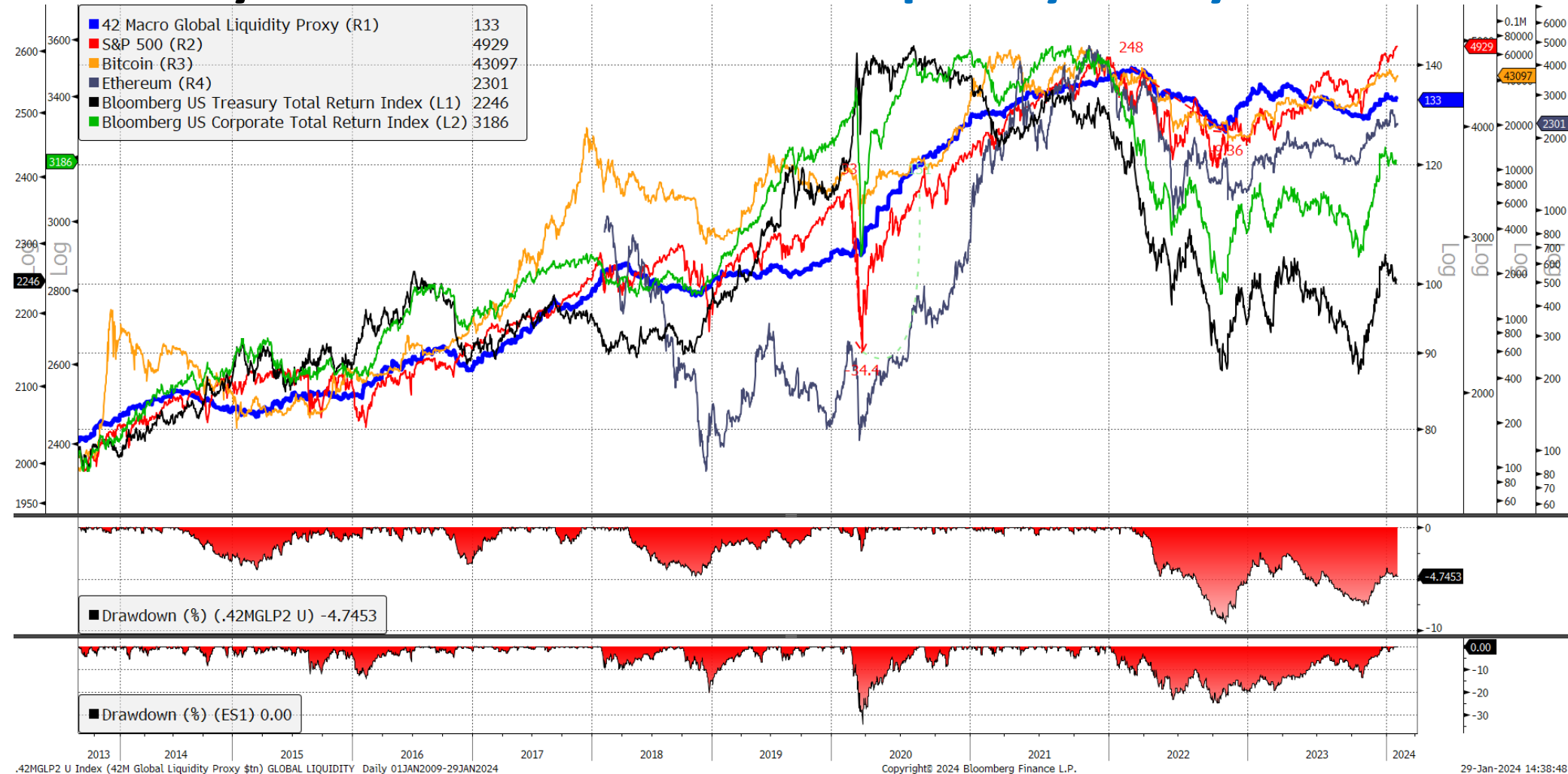
Investors Should Expect A Recovery In The US And Global Manufacturing Sectors Over The Medium Term, Which Has Historically Been Bullish For Risk Assets



© 42 Macro LLC. Data Source: Bloomberg.

Green dotted line = positive 1yr forward return in the S&P 500 from date of “ISM-M PMI # of Industries...” cycle low.
Red dotted line = negative 1yr forward return in the S&P 500 from date of “ISM-M PMI # of Industries...” cycle low.
Sample median values: +34% and -16%. Population median value: +28%. Percent positive ratio: 80%.

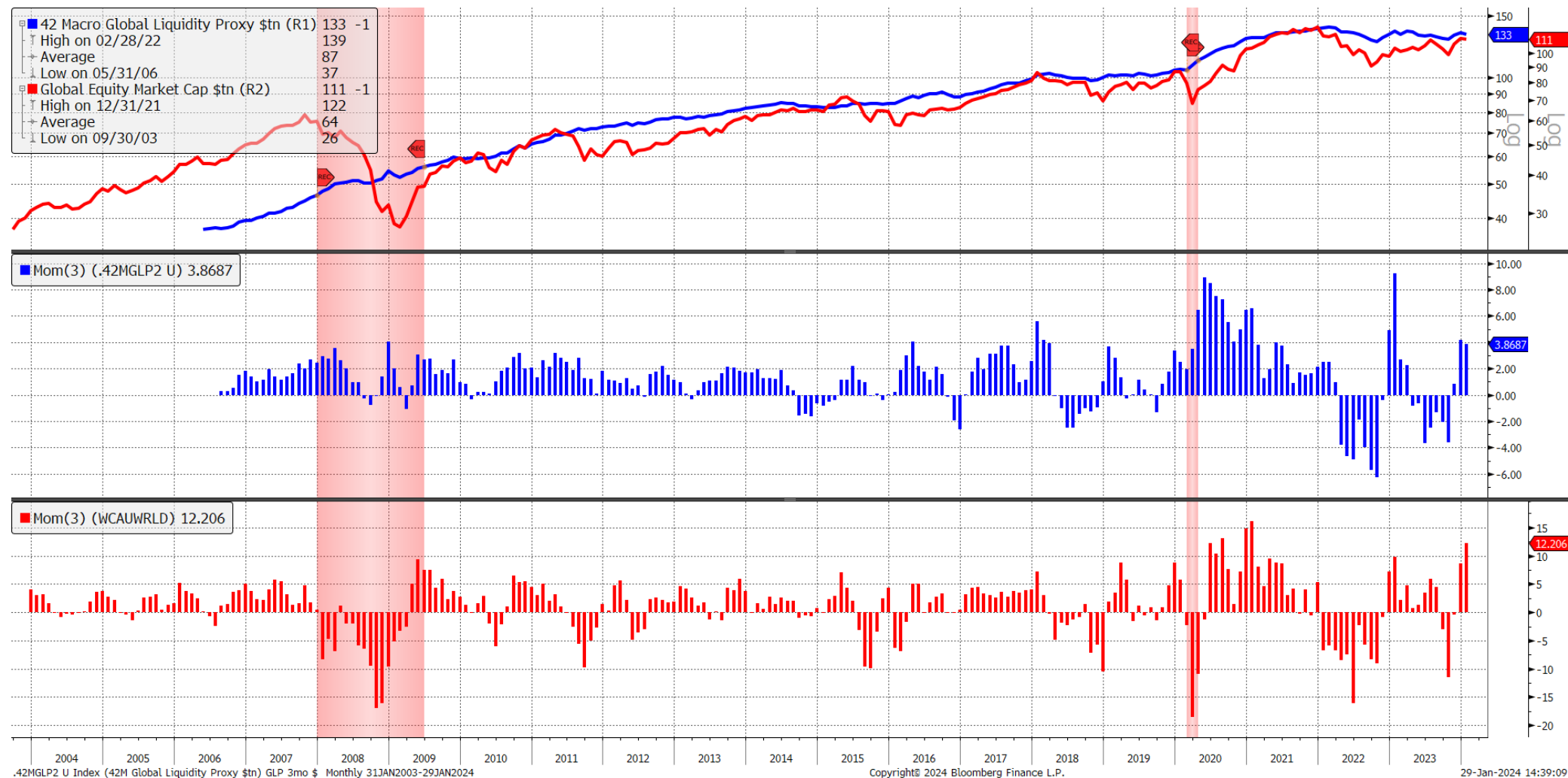
Asset Markets Are Highly Cointegrated With Global Liquidity, As Measured By The 42 Macro Global Liquidity Proxy



The 42 Macro Global Liquidity Proxy Bottomed Almost Perfectly One Year After Its Prior Cycle Low

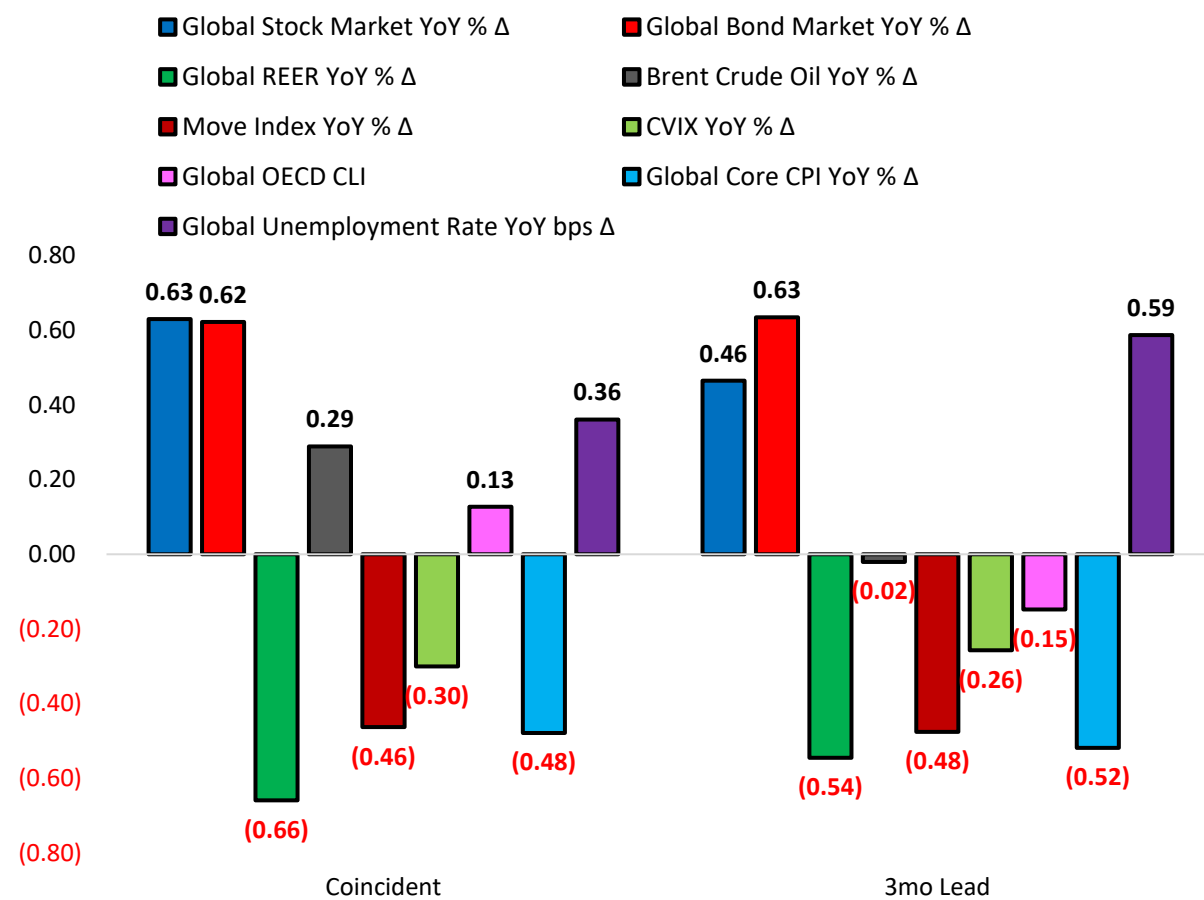


The Global Liquidity Impulse Is Now Appreciably Positive

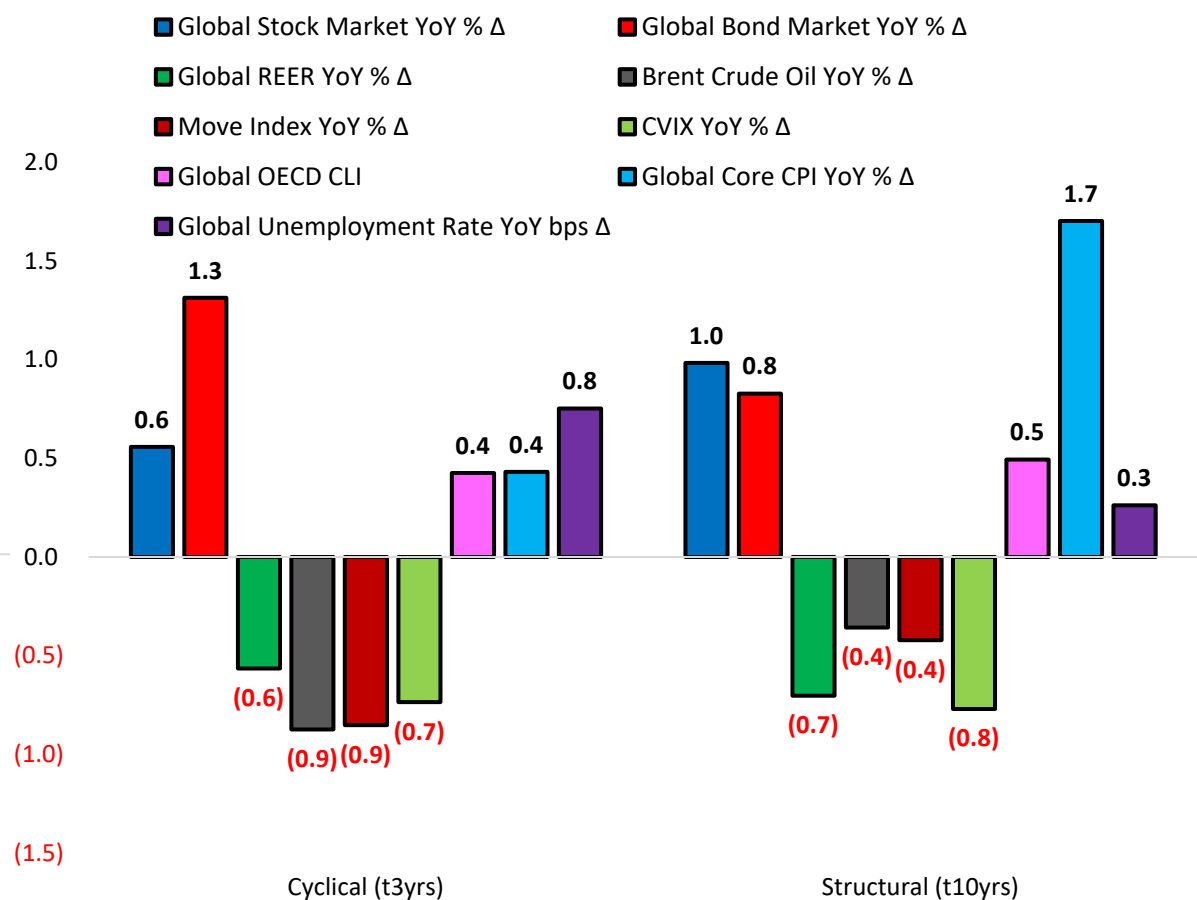


We Have Not Observed Enough Disinflation And/Or Economic Deterioration To Force Central Banks To Provide Substantial Liquidity Over The Medium Term...

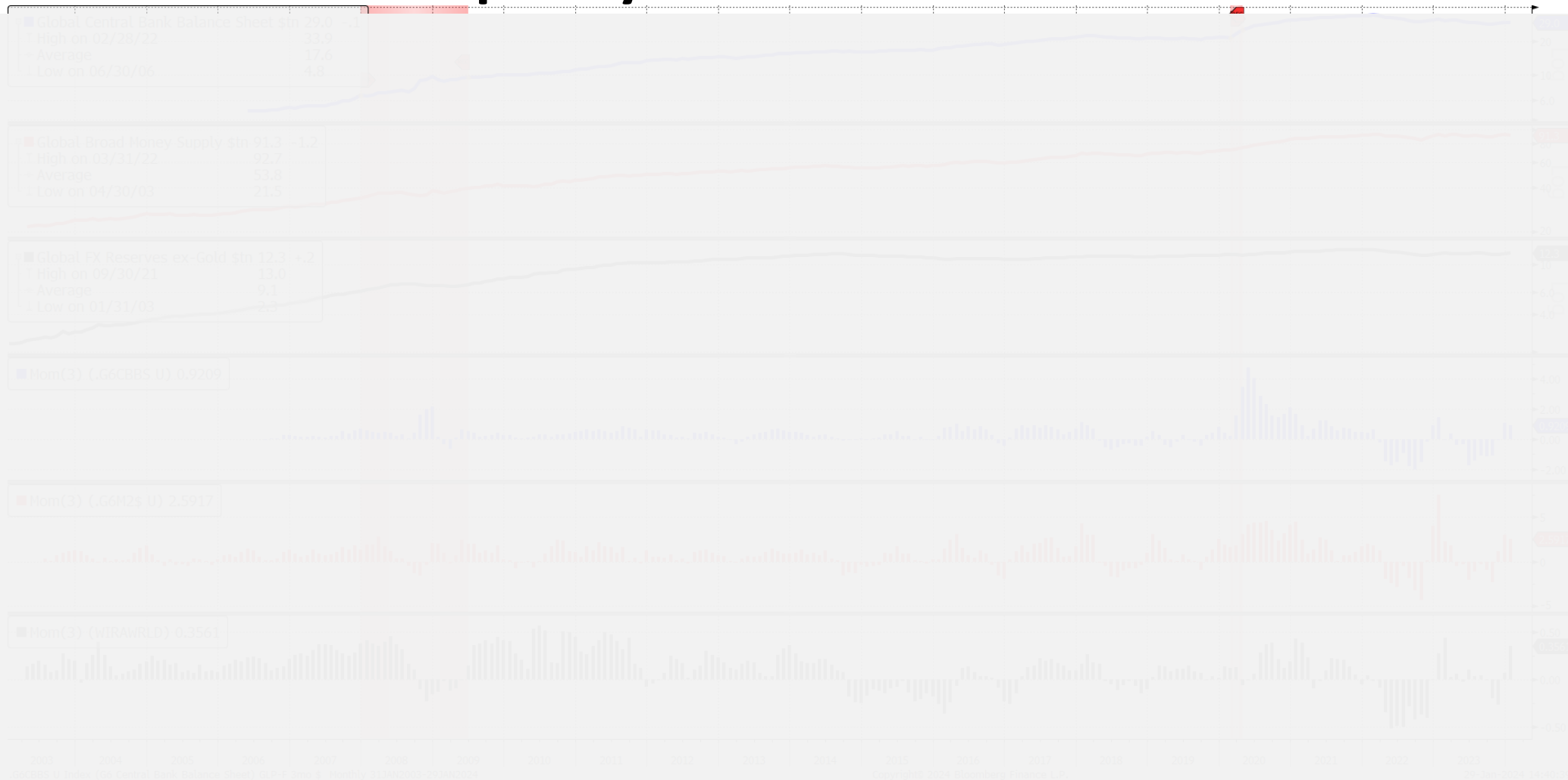
Trailing 10yr Correlation to the YoY % Change in the
42 Macro Global Liquidity Proxy



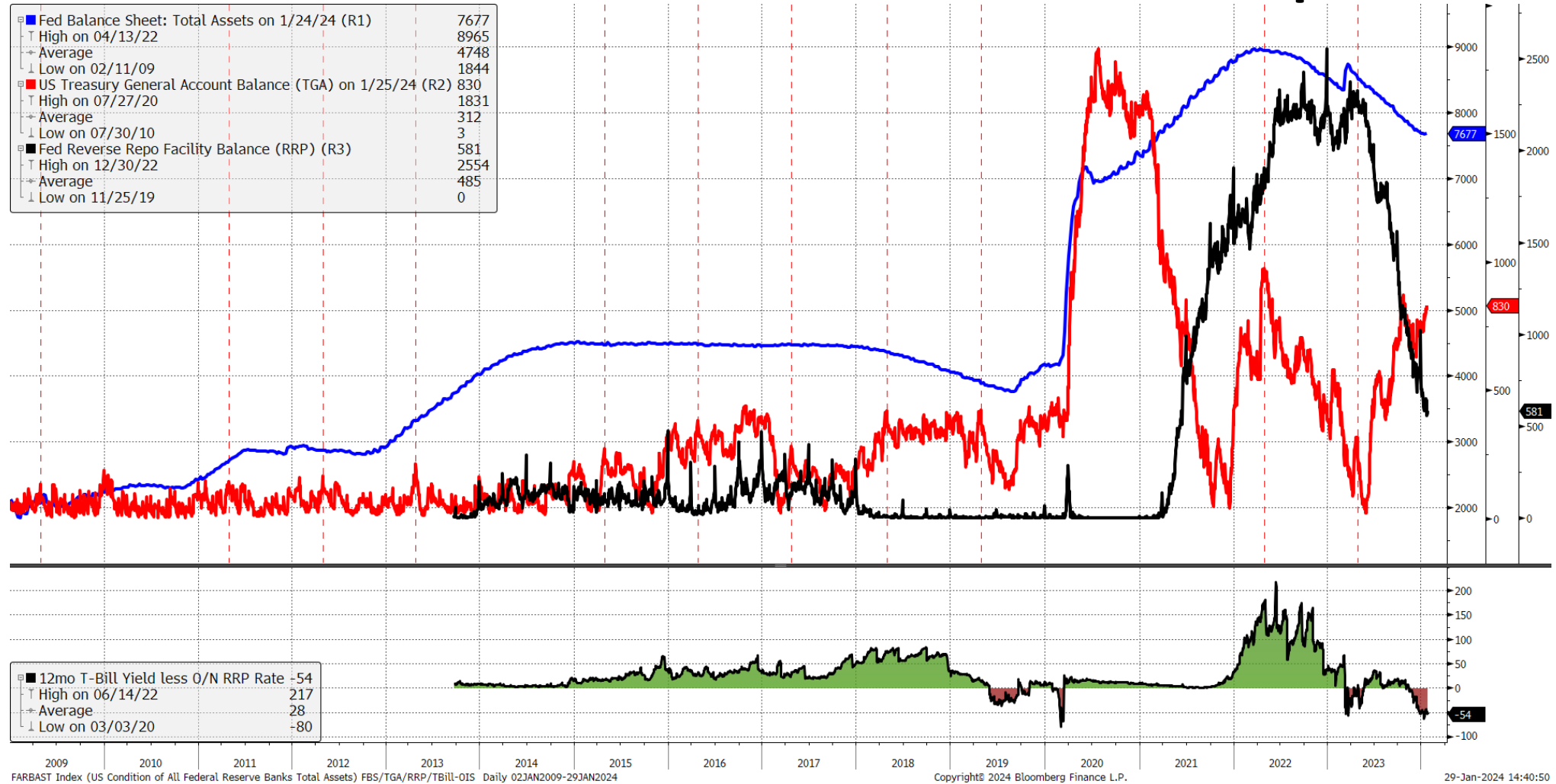
Z-Scores of Select Leading and Coincident Indicators of the
42 Macro Global Liquidity Proxy



... Which Means The Private Sector Is The Key Driver Of The Rebound In Global Liquidity



The Fed's Reverse Repo Facility (RRP) Still Has Roughly \$600bn Dollars Of Excess Demand For T-Bills Relative To Coupons...



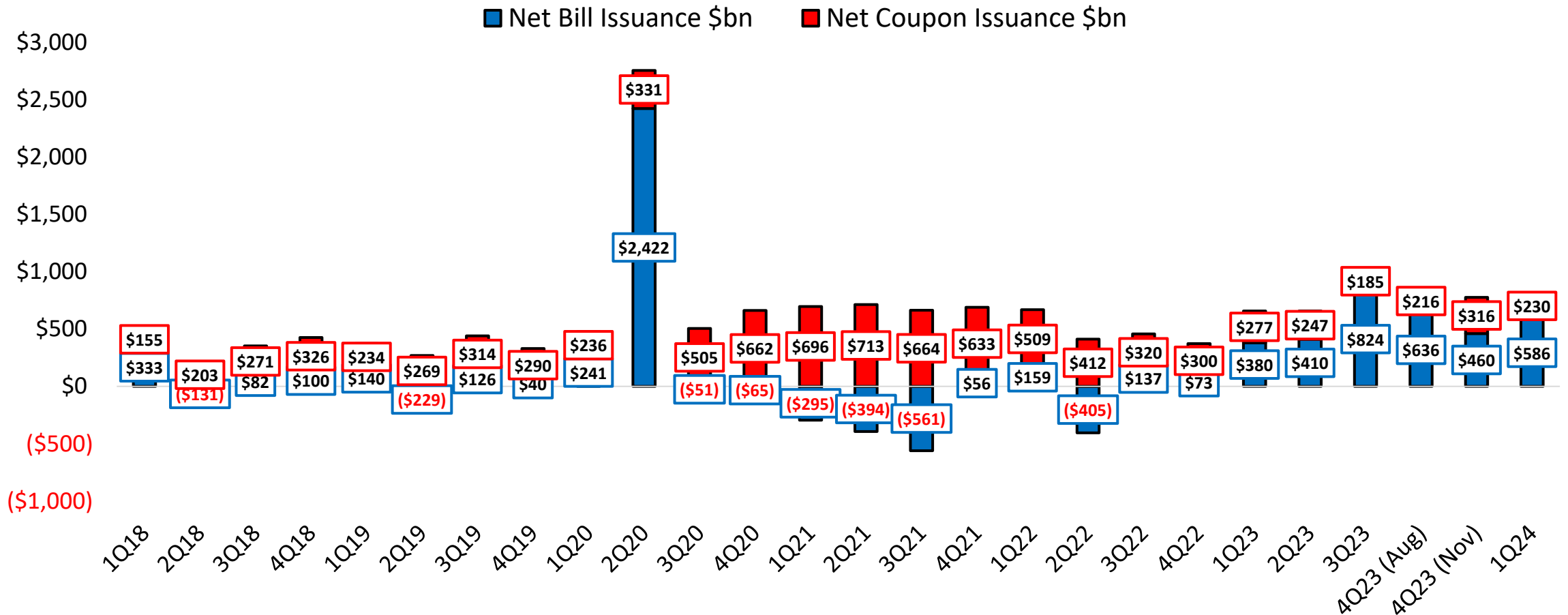
© 42 Macro LLC. Data Source: Bloomberg.

Jan-23 QRA 1Q24 and 2Q24 TGA estimates = \$750bn apiece.

Red dotted lines = spikes in TGA due to the April federal tax deadline.

... Which Is Why Yellen Continues To Flood The Market With T-Bills

US Treasury Nominal Net Marketable Borrowing Composition

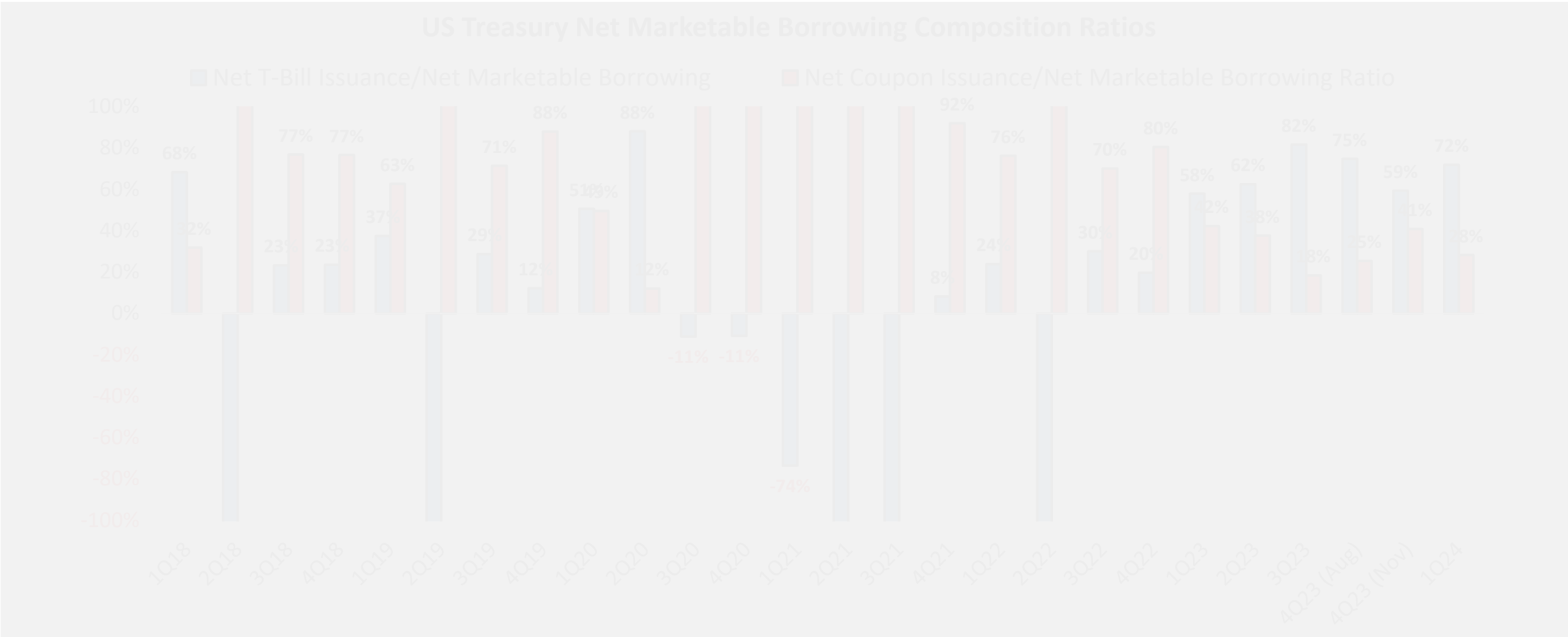


© 42 Macro LLC. Data Source: US Treasury Department.

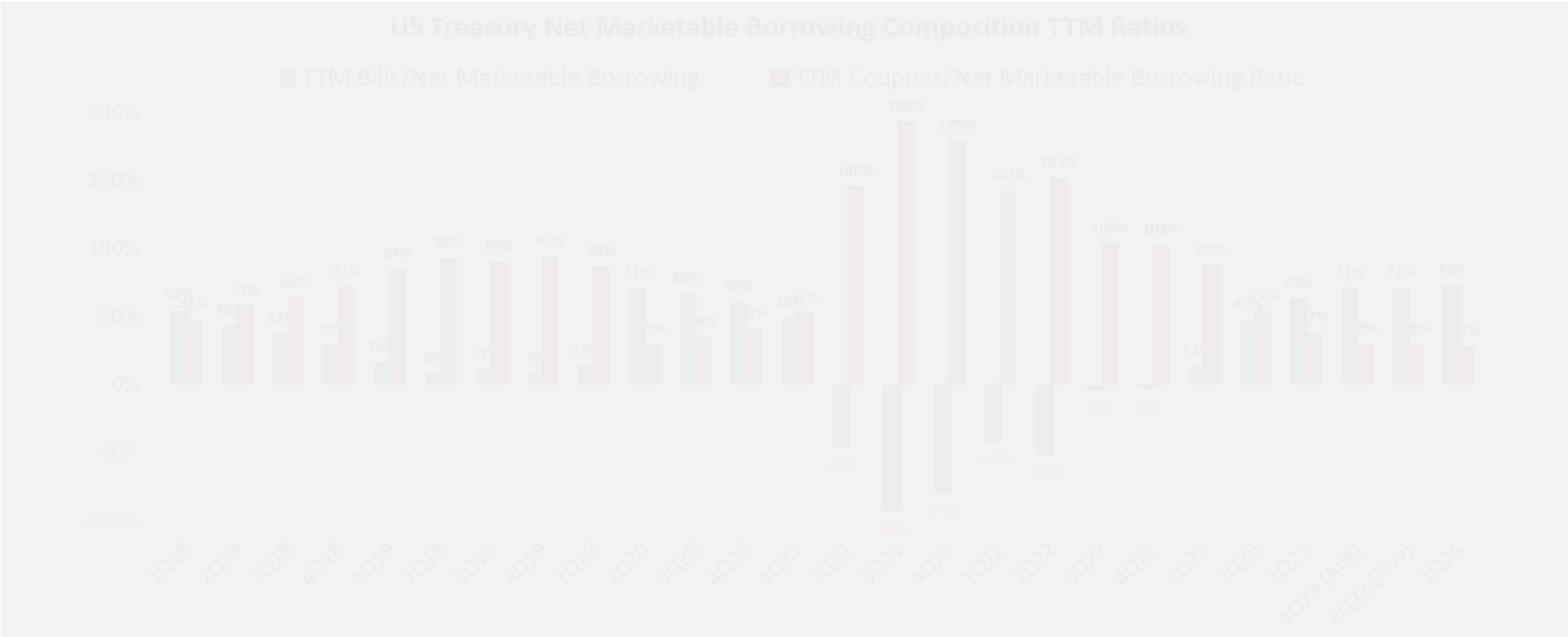
Jan-23 QRA 1Q24 net marketable borrowing estimate = \$760bn, **-\$19bn** from the Oct-23 QRA.

Jan-23 QRA 2Q24 net marketable borrowing estimate = \$202bn, **-\$558bn** QoQ.

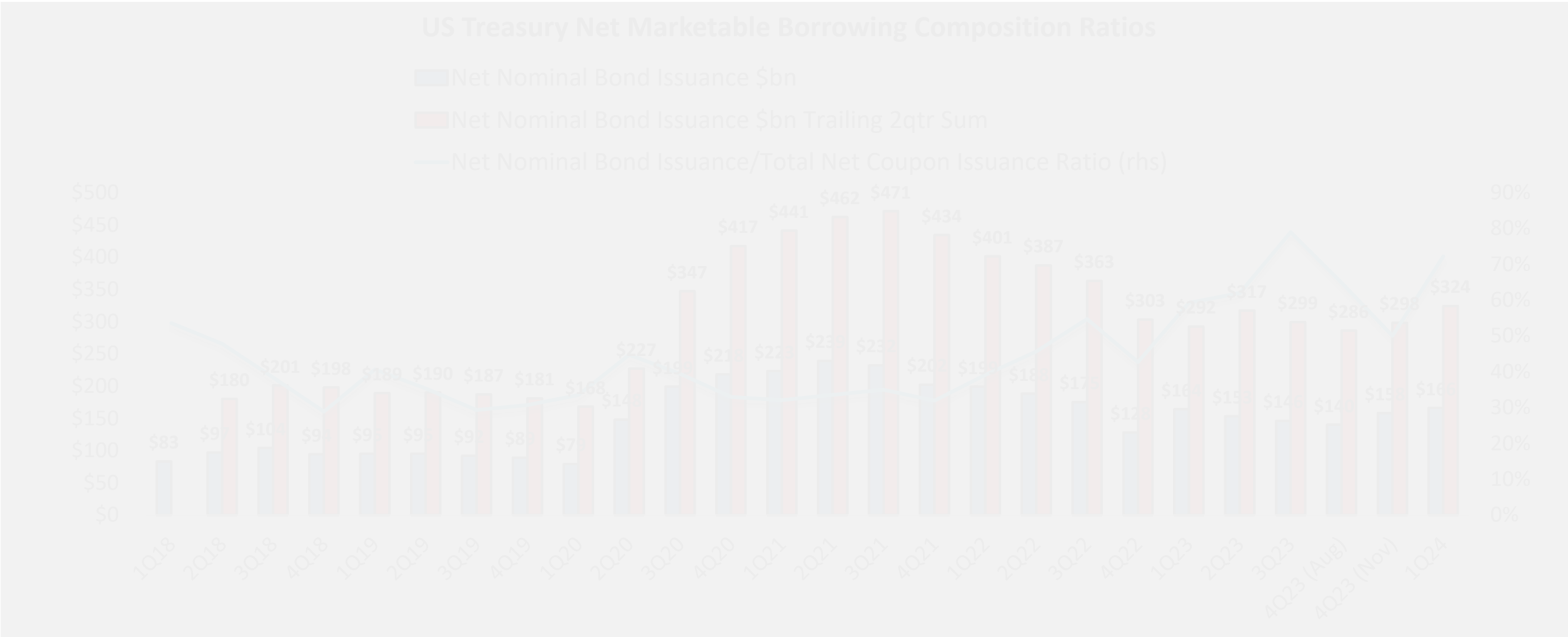
Net Coupon Issuance Will Remain In The [REDACTED] Range Of Total Net Marketable Borrowing It Has Been In Since The Start Of 2023



On A TTM Basis, Net Coupon Issuance Will Account For Only █ Of Net Marketable Borrowing Through Q1 – The Lowest Ratio Since At Least █



Net Nominal Bond Issuance Will Total ██████████ In The Two Quarters Through Q1, Which Is Well Shy Of The ██████████ Range In The Two Years Through 2Q22



Left Tail Risks

The Most Reliable Leading Indicator Of The Business Cycle Still Indicates A Recession Is The Highest Probability Outcome



Our Analysis Of 3M10Y Yield Curve Inversions Suggests A Recession Is Most Likely To Commence In The Nov-23 Through Apr-24 Period

3M10Y	10Y20Y	20Y30Y	30Y40Y	10Y20Y	20Y30Y	30Y40Y	10Y20Y	20Y30Y	30Y40Y	10Y20Y	20Y30Y	30Y40Y	10Y20Y	20Y30Y	30Y40Y
10Y20Y	20Y30Y	30Y40Y	10Y20Y	20Y30Y	30Y40Y	10Y20Y	20Y30Y	30Y40Y	10Y20Y	20Y30Y	30Y40Y	10Y20Y	20Y30Y	30Y40Y	10Y20Y
12/17/1968	2.3%	0.2%	-0.0%	2.6%	0.3%	-3.7%	2.1%	0.9%	-0.3%	10bps	0bps	140bps	4bps	15bps	35bps
6/3/1971	1.5%	-0.6%	1.3%	2.1%	-0.6%	-2.0%	1.8%	0.7%	1.2%	0bps	50bps	180bps	166bps	241bps	232bps
11/1/1978	1.5%	-0.0%	0.6%	1.2%	-0.1%	-4.2%	2.1%	0.9%	-0.3%	-20bps	30bps	160bps	38bps	26bps	121bps
10/27/1980	3.3%	0.4%	-2.8%	2.6%	0.4%	-3.8%	1.2%	0.1%	-1.3%	-30bps	70bps	140bps	-11bps	102bps	-144bps
5/22/1989	1.5%	1.3%	0.4%	-0.7%	1.5%	-1.1%	0.9%	1.0%	-0.6%	20bps	0bps	80bps	-70bps	22bps	24bps
7/7/2000	0.7%	0.3%	-0.1%	-1.2%	-2.9%	-0.9%	0.9%	-0.4%	-1.0%	20bps	40bps	110bps	28bps	12bps	70bps
7/17/2006	1.0%	0.9%	1.2%	0.7%	1.7%	0.6%	0.8%	0.4%	0.3%	0bps	10bps	30bps	-10bps	-40bps	15bps
5/15/2018	2.0%	-0.7%	-0.7%	-0.1%	-15.8%	12.7%	0.7%	-12.1%	7.3%	0bps	960bps	-650bps	-17bps	-52bps	48bps
10/26/2022	1.2%	2.9%		-0.4%	-1.1%		1.3%	2.1%		10bps	40bps		71bps	208bps	
MIN	0.7%	-0.7%	-2.8%	-1.2%	-15.8%	-7.9%	0.5%	-12.1%	-1.3%	-20bps	0bps	-650bps	-71bps	-208bps	-144bps
1st QUANTILE	1.2%	0.2%	-0.9%	-0.4%	-1.1%	-3.9%	0.8%	0.1%	-1.1%	-10bps	10bps	98bps	-31bps	21bps	67bps
MEDIAN	1.5%	0.4%	-0.1%	0.7%	-0.5%	-2.0%	1.2%	0.7%	-0.4%	0bps	40bps	125bps	-10bps	12bps	19bps
3rd QUANTILE	2.0%	0.9%	0.5%	2.1%	0.4%	-0.5%	1.8%	0.9%	-0.1%	10bps	50bps	145bps	28bps	22bps	68bps
MAX	3.3%	2.9%	1.2%	2.6%	1.7%	12.7%	2.4%	2.1%	7.3%	20bps	960bps	180bps	166bps	261bps	232bps
PERCENT POSITIVE	100%	78%	38%	50%	33%	25%	100%	78%	25%	33%	78%	80%	33%	56%	63%
PERCENT NEGATIVE	0%	22%	62%	44%	67%	75%	0%	22%	75%	33%	0%	13%	67%	44%	38%
FED STILL HIKING in 6mo (n=5)	1.5%	0.4%	-0.7%	2.1%	-0.5%	-8.0%	1.8%	0.9%	-0.8%	-10bps	40bps	150bps	-8bps	12bps	84bps
FED PAUSE in 6mo (n=1)	1.0%	0.9%	1.2%	0.7%	1.7%	0.6%	0.8%	0.4%	0.3%	0bps	10bps	30bps	-10bps	-40bps	15bps
FED PIVOT in 6mo (n=3)	1.5%	0.3%	-0.1%	-0.7%	-2.9%	-0.9%	0.7%	-0.4%	-0.6%	20bps	40bps	80bps	-17bps	12bps	24bps
MEAN OF BOLDDED SCENARIOS	1.5%	0.4%	-0.4%	1.4%	-0.5%	-8.0%	1.5%	0.8%	-0.8%	-8bps	40bps	138bps	-7bps	12bps	97bps

Data Source: Bloomberg. All summary statistics featured in the bottom clusters of rows are MEDIAN values unless denoted otherwise. Intellectual Property of 42 Macro LLC.

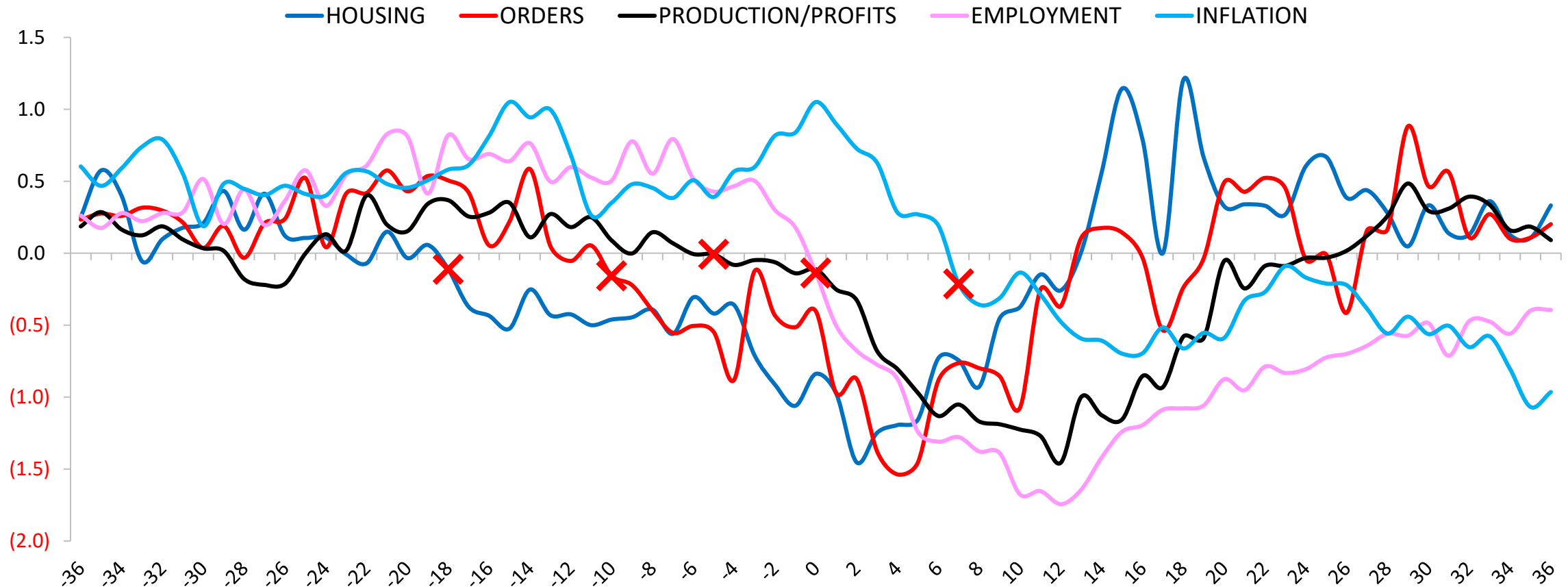
Stocks Are Always Very Buoyant In The Periods Leading Up To Recessions And Tend To Accelerate Late In The Pre-Phase 2 Process

			Trough					Peak					Duration of Phase 2			Months From		Months From	
			Unemployment	Unemployment	Unemployment	Unemployment	Unemployment	100-500	100-500	100-500	100-500	100-500	100-500	Duration of Phase 2	100-500 Peak to	100-500 Trough	100-500 Peak to	100-500 Trough	
Event	Date	Category/Event	Date/Trough/Date	Rate	Date/2nd Date	Rate	Date/1st Date	100-500	100-500	100-500	100-500	100-500	Duration of Phase 2	100-500 Peak to	100-500 Trough	100-500 Peak to	100-500 Trough		
Nov-48	Oct-49	Monetary Tightening	Jan-48	3.4%	Oct-49	7.9%	450bps	6/15/1948	14%	13%	21%	6/13/1949	21%	12	(0)	5	n/a	n/a	
Jul-53	May-54	Monetary Tightening	May-53	2.2%	Sep-54	6.1%	360bps	1/5/1953	11%	6%	9%	9/14/1953	15%	8	5	13	n/a	n/a	
Aug-57	Apr-58	Pandemic	Mar-57	3.7%	Jul-58	7.5%	380bps	8/2/1956	15%	12%	9%	10/22/1957	23%	15	8	9	n/a	n/a	
Apr-60	Feb-61	Monetary Tightening	Feb-60	4.8%	May-61	7.1%	230bps	8/3/1959	28%	10%	5%	10/25/1960	14%	15	7	7	n/a	n/a	
Dec-69	Nov-70	Monetary Tightening/Fiscal Tightening	Dec-68	3.4%	Dec-70	6.1%	270bps	12/2/1968	14%	10%	9%	5/26/1970	36%	18	1	7	0	0	
Nov-73	Mar-75	Energy Price Shock	Oct-73	4.6%	May-75	9.0%	440bps	1/11/1973	16%	12%	10%	10/3/1974	46%	21	10	8	11	3	
Jan-80	Jul-80	Monetary Tightening/Energy Price Shock	May-79	5.6%	Jul-80	7.8%	220bps	2/13/1980	19%	10%	15%	3/27/1980	17%	1	(0)	4	1	3	
Jul-81	Nov-82	Monetary Tightening	Dec-80	7.2%	Nov-82	10.8%	360bps	11/28/1980	12%	25%	15%	8/12/1982	27%	21	1	4	5	3	
Jul-90	Mar-91	Energy Price Shock	Jul-88	5.2%	Feb-92	7.4%	220bps	7/18/1990	11%	8%	7%	10/11/1990	20%	3	(1)	17	(0)	3	
Mar-01	Nov-01	Monetary Tightening	Apr-00	3.8%	Apr-02	5.9%	210bps	3/24/2000	20%	18%	5%	10/9/2002	40%	31	1	(0)	1	(1)	
Dec-07	Jun-09	Monetary Tightening	Dec-06	4.4%	Oct-09	10.0%	560bps	10/9/2007	16%	8%	2%	3/9/2009	27%	17	(0)	8	0	0	
Feb-20	Apr-20	Pandemic	Sep-19	3.3%	Apr-20	14.7%	1120bps	2/19/2020	22%	15%	9%	3/23/2020	26%	1	(0)	1	1	1	
MEDIAN - All			n/a	4.1%	n/a	7.7%	360bps	n/a	16%	11%	9%	n/a	24%	15	1	7	1	2	
25th Percentile			n/a	3.5%	n/a	6.5%	228bps	n/a	14%	9%	5%	n/a	13%	7	(0)	4	0	0	
75th Percentile			n/a	4.9%	n/a	9.3%	443bps	n/a	20%	13%	11%	n/a	35%	19	5	8	2	3	
MEDIAN - Monetary Tightening			n/a	4.1%	n/a	7.5%	315bps	n/a	18%	10%	9%	n/a	24%	16	1	6	1	0	
MEDIAN - Fiscal Tightening			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
MEDIAN - Energy Price Shock			n/a	5.2%	n/a	7.8%	220bps	n/a	16%	10%	10%	n/a	20%	3	(0)	8	1	3	
MEDIAN - Pandemic			n/a	3.6%	n/a	11.1%	750bps	n/a	19%	14%	8%	n/a	28%	8	2	8	1	1	
MILD Recession			n/a	4.9%	n/a	7.1%	220bps	n/a	19%	11%	8%	n/a	25%	13	(0)	6	0	(0)	
MODERATE Recession			n/a	4.4%	n/a	7.7%	330bps	n/a	19%	14%	11%	n/a	26%	16	2	8	3	2	
SEVERE Recession			n/a	3.9%	n/a	9.8%	540bps	n/a	17%	12%	9%	n/a	35%	19	5	6	4	1	
Data Sources: BEA, Bloomberg. Intellectual Property of 42 Macro LLC. Advertisers: 1-Bill Yield prior to the 1973-74 recession, Mild, Moderate, and Severe recession statistics are averages based on the 100-500 rate delta.																			

Data Source: NBER, Bloomberg. Intellectual Property of 42 Macro LLC. Asterisk = 3mo T-Bill Yield prior to the 1973-75 recession. Mild, Moderate, and Severe recession statistics are averages based on the magnitude of the Unemployment Rate Delta.

Inflation Is The Most Lagging Indicator Of The Business Cycle

Median Trailing 10yr Delta-Adjusted Z-Score of a Basket of Select Indicators
n-Months Before/After Recession Start



History Confirms The Fed Must Break The Economy To Achieve Its Price Stability Mandate

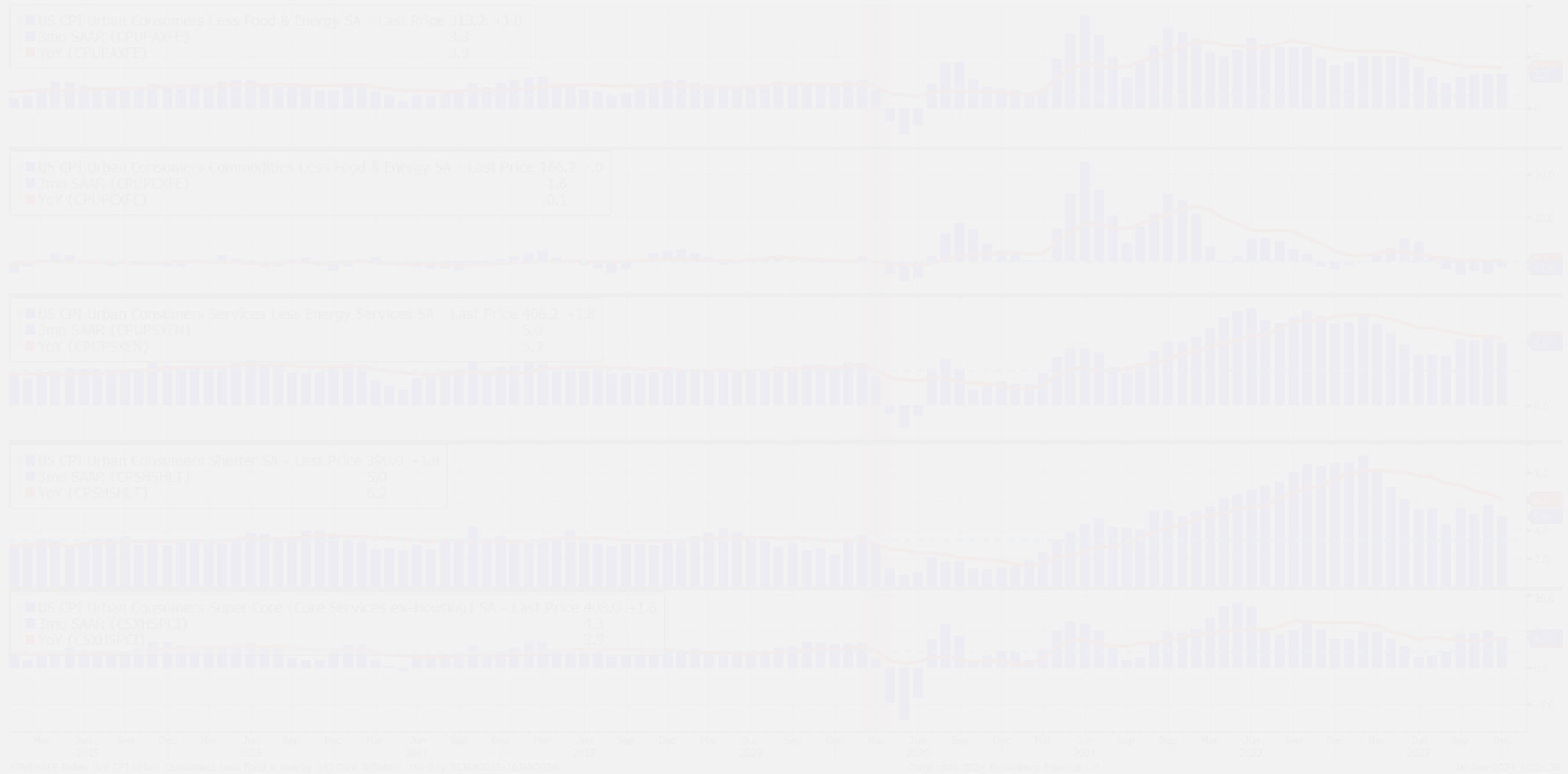
Start	End	Primary Trigger	Real GDP Contraction	Starting Private Non-Financial Sector Credit Gap*	Peak Unemployment Rate	Nonfarm Payrolls Max Drawdown	Manufacturing Sector Share of Nonfarm Payrolls	Manufacturing Sector Share of NFP Drawdown	S&P 500 Max Drawdown	S&P 500 TTM EPS Max Drawdown	NIPA Corporate Profits Max Drawdown	Core PCE YoY Peak	Core PCE YoY Trough	bps Change t-1	bps Change	bps Change t-1	Fed Funds Rate* Peak	Fed Funds Rate* Trough	bps Change t-1	bps Change	bps Change t-1
Aug-29	Mar-33	Monetary Tightening	-26.7%		24.9%				-86%												
May-37	Jun-38	Fiscal Tightening	-18.2%		19.0%				-54%												
Feb-45	Oct-45	Fiscal Tightening	-12.7%		1.9%	-9%	42%	106%	-6%												
Nov-48	Oct-49	Monetary Tightening	-1.7%	0.9	7.9%	-5%	39%	85%	14%												
Jul-53	May-54	Monetary Tightening	-2.6%	1.2	6.1%	-3%	39%	98%	11%		-16%										
Aug-57	Apr-58	Pandemic	-3.7%	1.5	7.5%	-4%	37%	84%	15%	-20%	-24%						3.51%	1.02%	84bps	-249bps	165bps
Apr-60	Feb-61	Monetary Tightening	-1.6%	1.4	7.1%	-2%	35%	95%	28%	-11%	-15%	2.2%	1.2%		-94bps	10bps	4.68%	2.05%	19bps	-263bps	13bps
Dec-69	Nov-70	Monetary Tightening/Fiscal Tightening	-0.6%	1.7	6.1%	-1%	32%	212%	14%	-18%	-20%	4.8%	4.5%	3bps	-23bps	-88bps	8.08%	4.80%	176bps	-328bps	-70bps
Nov-73	Mar-75	Energy Price Shock	-3.2%	1.8	9.0%	-2%	30%	188%	16%	-4%	-12%	4.9%	4.9%	179bps	0bps	-387bps	11.00%	5.50%	350bps	-550bps	-75bps
Jan-80	Jul-80	Monetary Tightening/Energy Price Shock	-2.2%	2.0	7.8%	-1%	27%	153%	19%	-4%	-18%	8.2%	8.2%	144bps	0bps	-37bps	15.50%	9.50%	400bps	-600bps	600bps
Jul-81	Nov-82	Monetary Tightening	-2.7%	0.8	10.8%	-3%	26%	94%	32%	-22%	-9%	9.8%	5.9%	-37bps	-389bps	-138bps	20.00%	9.00%	600bps	-1100bps	50bps
Jul-90	Mar-91	Energy Price Shock	-1.4%	0.9	7.8%	-1%	22%	121%	11%	-43%	-6%	4.1%	3.7%	1bps	-42bps	-36bps	9.00%	6.00%	-100bps	-300bps	-200bps
Mar-01	Nov-01	Monetary Tightening	-0.3%	1.4	6.3%	-2%	18%	107%	20%	-29%	-8%	2.0%	1.2%	3bps	-82bps	-12bps	6.50%	2.00%	-100bps	-450bps	-75bps
Dec-07	Jun-09	Monetary Tightening	-5.1%	1.9	10.0%	-6%	16%	55%	16%	-35%	-37%	2.6%	0.7%	9bps	-184bps	84bps	5.25%	0.25%	-100bps	-500bps	0bps
Feb-20	Apr-20	Pandemic	-19.2%	0.5	14.7%	-14%	14%	12%	22%	-15%	-18%	1.8%	0.9%	6bps	-92bps	221bps	2.50%	0.25%	-75bps	-225bps	0bps
MEDIAN - All			-2.7%	1.4	7.8%	-3%	30%	98%	15%	-19%	-17%	4.1%	3.7%	5bps	-82bps	-36bps	7.3%	3.4%	52bps	-389bps	0bps
25th Percentile			-1.7%	0.9	6.7%	-2%	22%	85%	19%	-12%	-11%	2.2%	1.2%	3bps	-23bps	10bps	4.8%	1.3%	-94bps	-272bps	-74bps
75th Percentile			-8.9%	1.7	10.4%	-5%	37%	121%	11%	-27%	-20%	4.9%	4.9%	43bps	-94bps	-88bps	10.5%	5.9%	307bps	-538bps	41bps
MEDIAN - Monetary Tightening			-2.2%	1.4	7.8%	-3%	30%	96%	16%	-20%	-17%	3.7%	2.9%	3bps	-88bps	-24bps	7.3%	3.4%	98bps	-475bps	6bps
MEDIAN - Fiscal Tightening			-12.7%	1.7	6.1%	-5%	37%	159%	-6%	-18%	-20%	4.8%	4.5%	3bps	-23bps	-88bps	8.1%	4.8%	176bps	-328bps	-70bps
MEDIAN - Energy Price Shock			-2.2%	1.8	7.8%	-1%	27%	153%	16%	-4%	-12%	4.9%	4.9%	144bps	0bps	-37bps	11.0%	6.0%	350bps	-550bps	-75bps
MEDIAN - Pandemic			-11.5%	1.0	11.1%	-9%	25%	48%	19%	-18%	-21%	1.8%	0.9%	6bps	-92bps	221bps	3.0%	0.6%	5bps	-237bps	83bps
MILD Recession			-2.0%	1.3	7.0%	-2%	29%	124%	17%	-25%	-13%	3.3%	2.7%	2bps	-60bps	-31bps	7.07%	3.71%	-1bps	-335bps	-83bps
MODERATE Recession			-2.7%	1.5	8.2%	-3%	32%	123%	19%	-13%	-17%	7.6%	6.3%	95bps	-130bps	-187bps	12.50%	6.26%	359bps	-625bps	185bps
SEVERE Recession			-4.2%	1.2	14.1%	-10%	24%	58%	-22%	-25%	-28%	2.2%	0.8%	8bps	-138bps	152bps	3.88%	0.25%	-88bps	-363bps	0bps
Correlation* to Real GDP Contraction			1.00	0.49	(0.79)	0.24	0.67	0.75	0.80	(0.03)	(0.45)	0.31	0.36	0.08	0.06	(0.57)	0.41	0.46	0.25	(0.26)	0.01
r ²			1.00	0.24	0.63	0.06	0.45	0.56	0.64	0.00	0.20	0.10	0.13	0.01	0.00	0.33	0.17	0.21	0.06	0.07	0.00

Intellectual Property of 42 Macro LLC. Data Source: NBER, Bloomberg. Asterisk = 3mo T-Bill Yield prior to the 1973-75 recession. Mild, Moderate, and Severe recession statistics are averages based on the magnitude of the Max Drawdown in Nonfarm Payrolls.

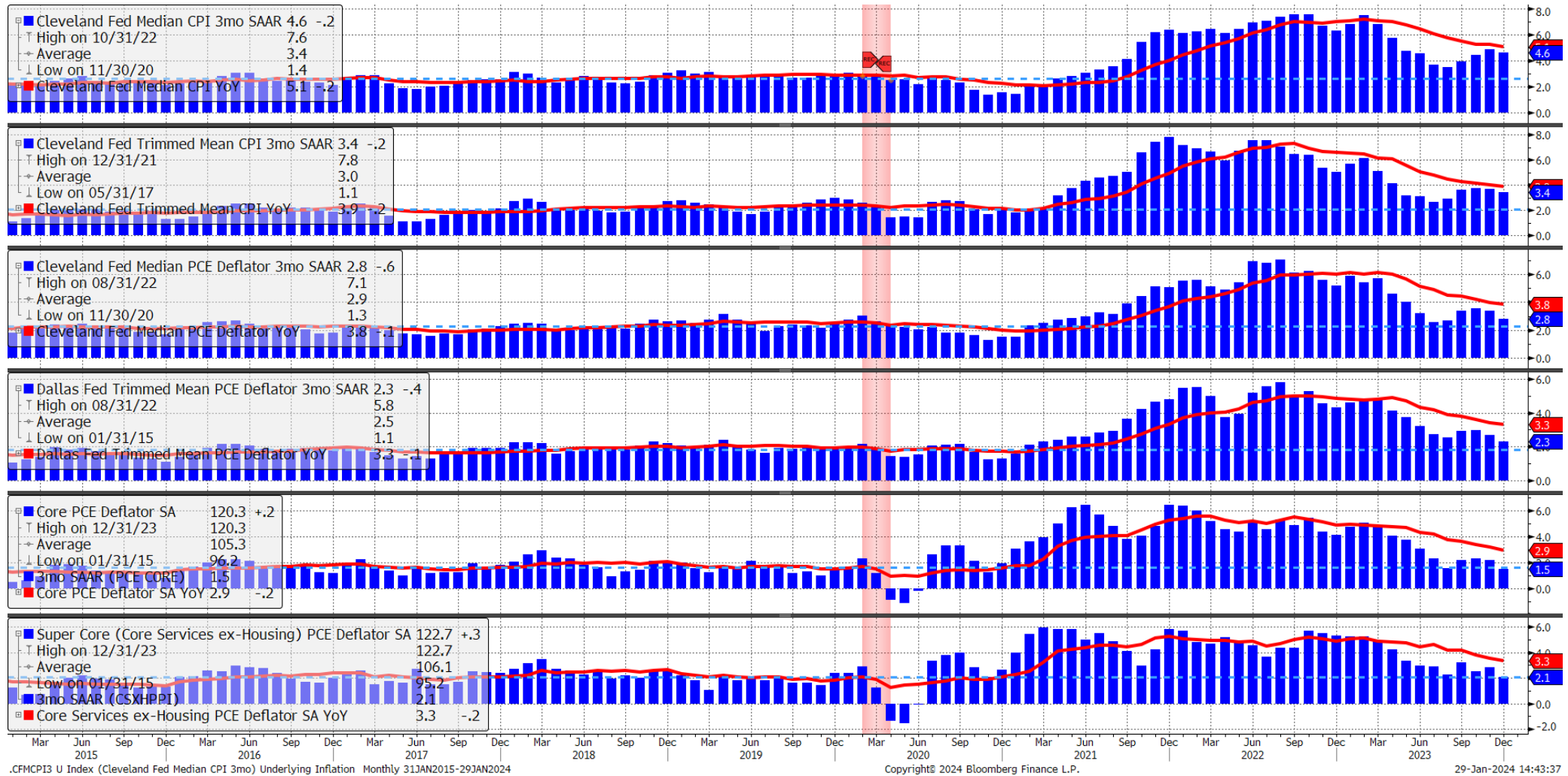
A “No Landing” In The Economy = A “No Landing” In Headline Inflation



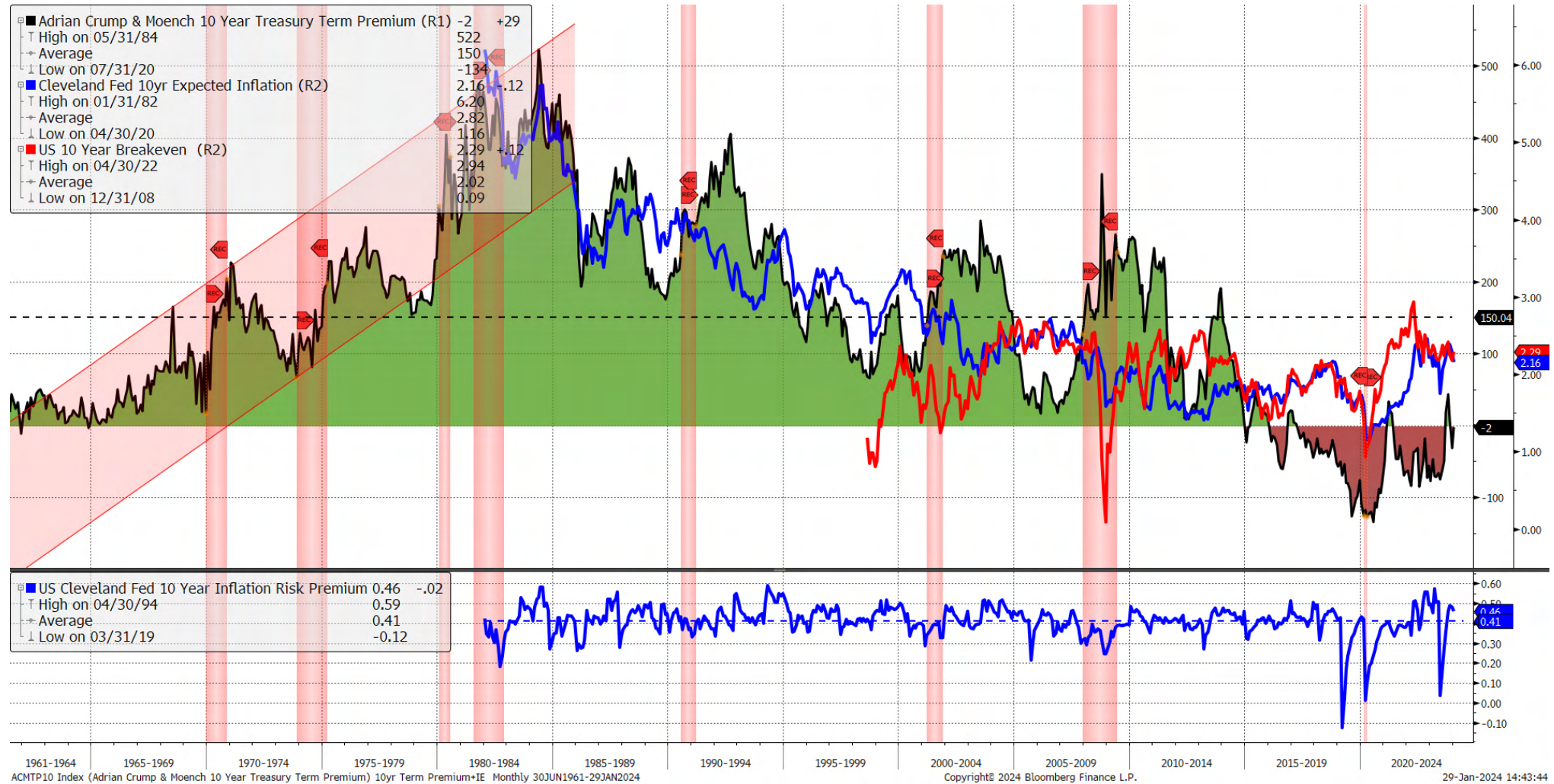
A “No Landing” In The Economy = A “No Landing” In Core Inflation



A “No Landing” In The Economy = A “No Landing” In Underlying Inflation



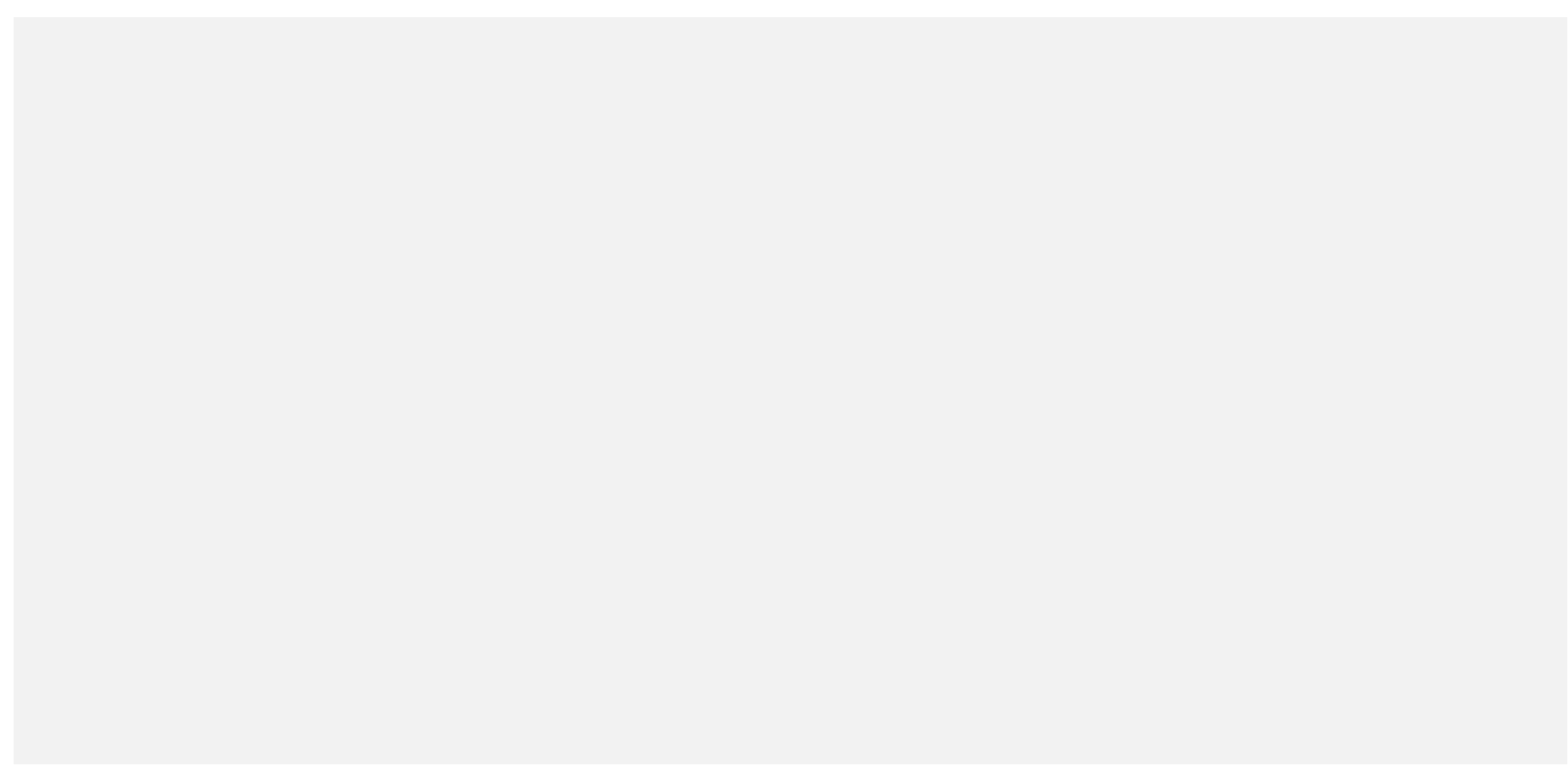
The Treasury Bond Market May Still Be Underpricing Structural Inflation Risks



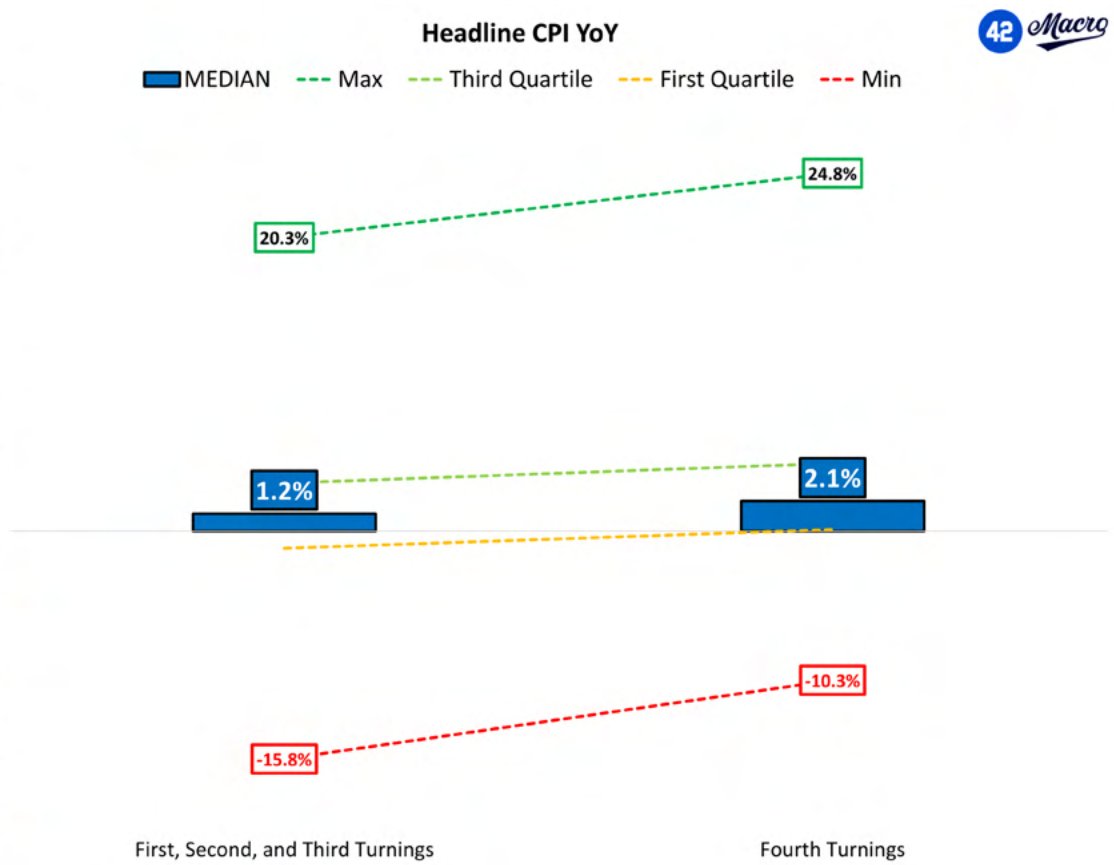
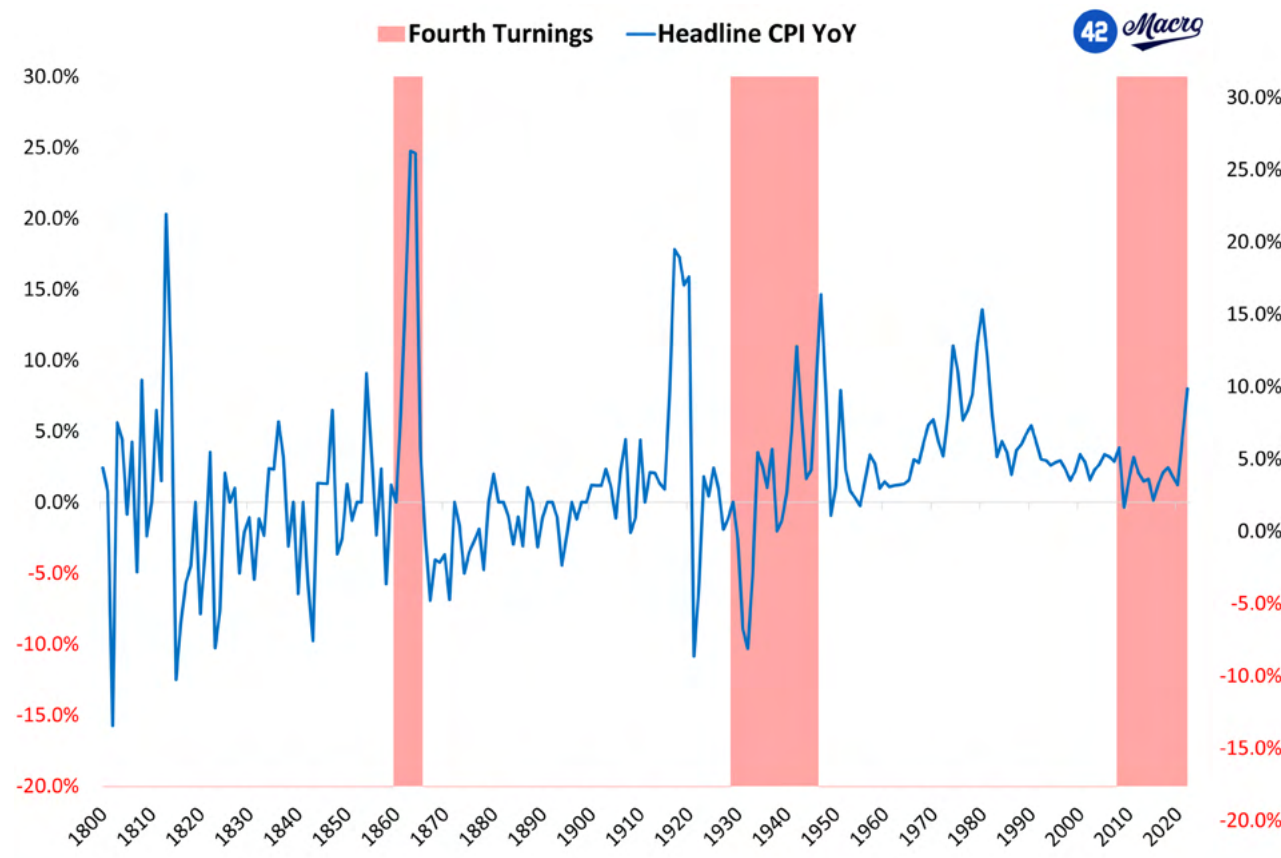
© 42 Macro LLC. Data Source: Bloomberg.

Nominal Interest Rate = Expected Nominal Rate (trend Real GDP + trend Headline CPI)
+ Nominal Term Premium (Real Term Premium + Inflation Risk Premium).

Appendix: Investing During A Fourth Turning Regime



Headline CPI Tends To Be Relatively Strong And Spike During Fourth Turnings

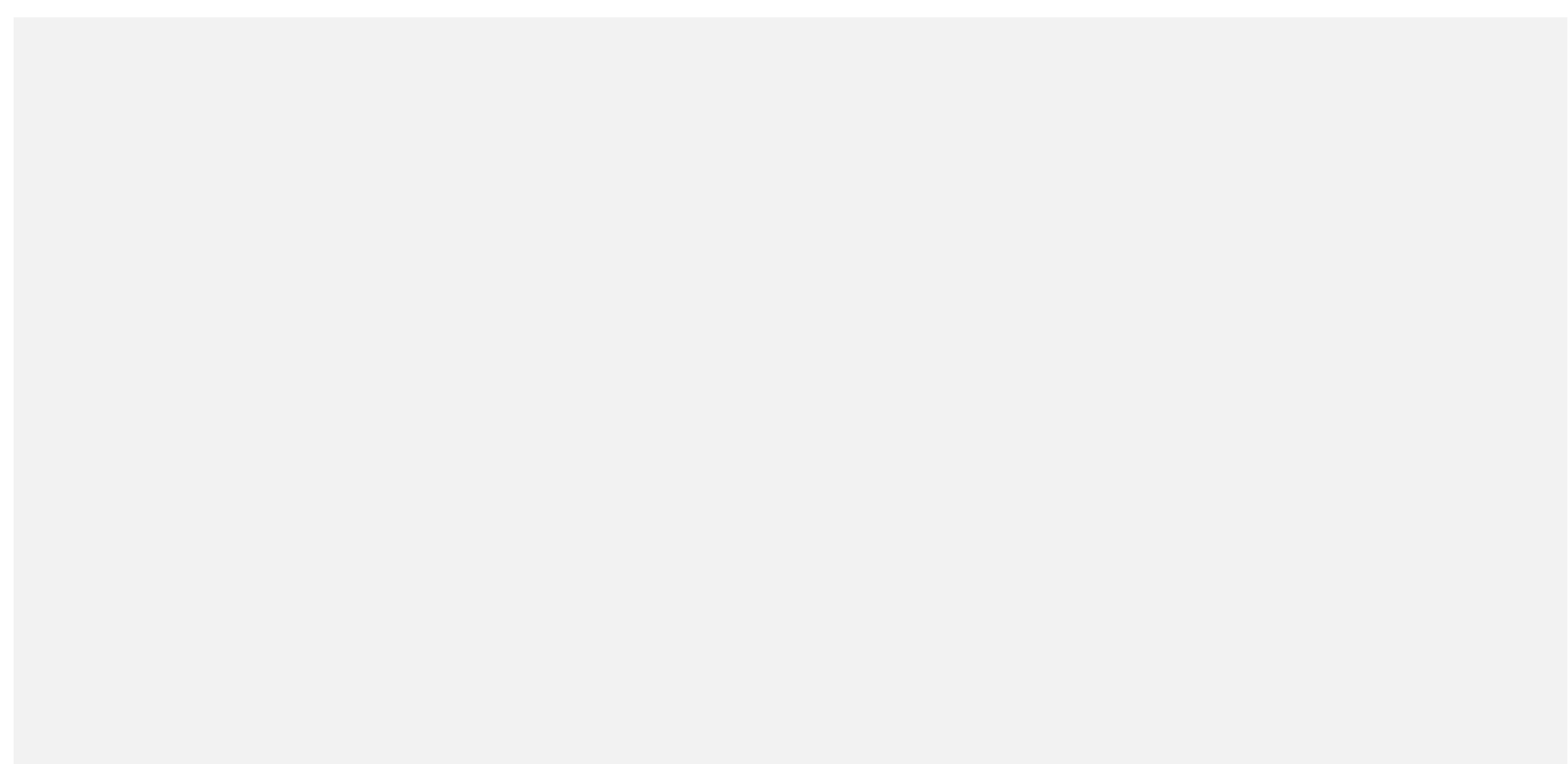


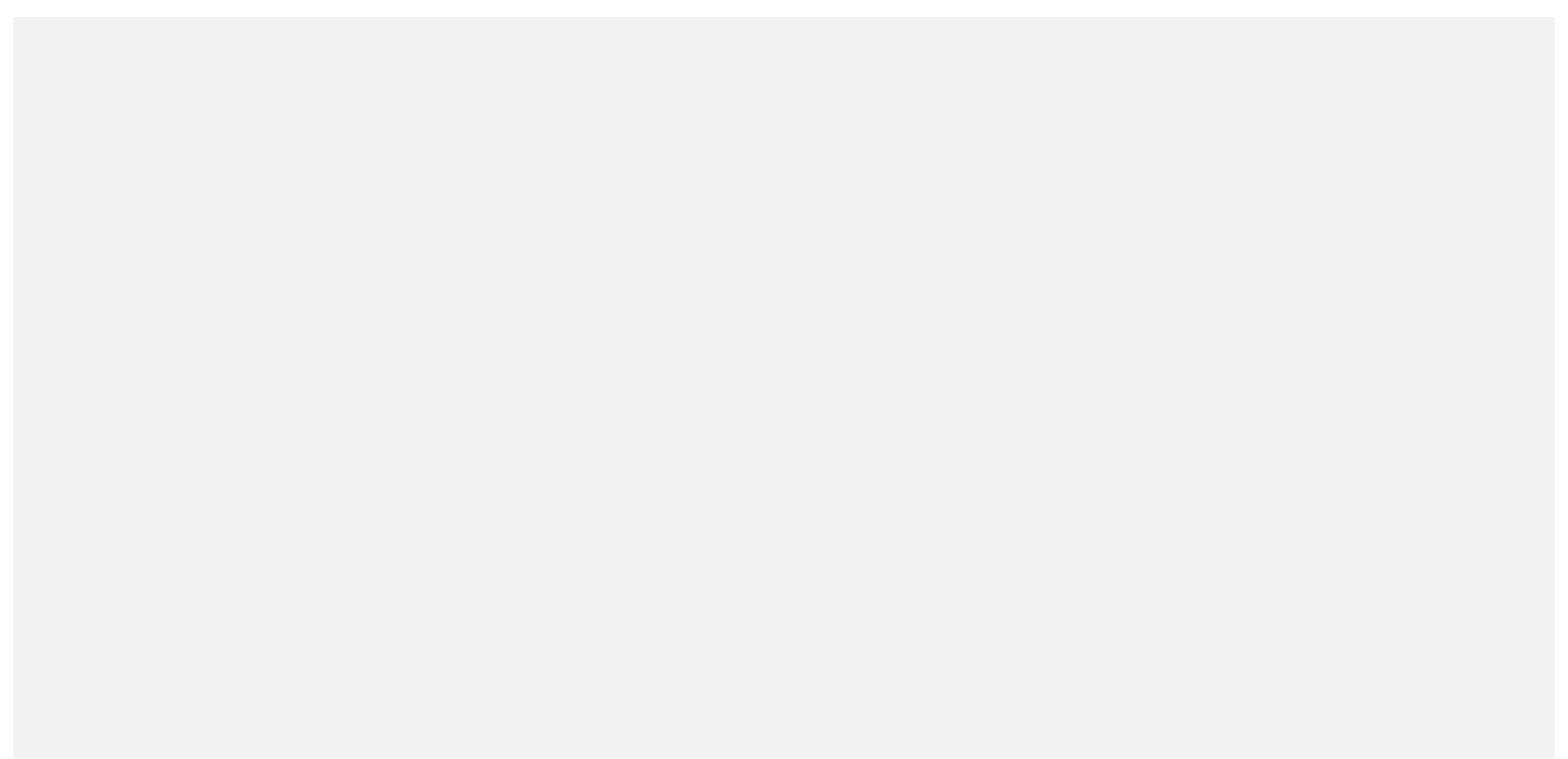
42 Macro Secular Inflation Model: Our Analysis Suggests Core PCE Is Likely To Trend 50-100% Higher Throughout This Decade; 3% Is The New 2%

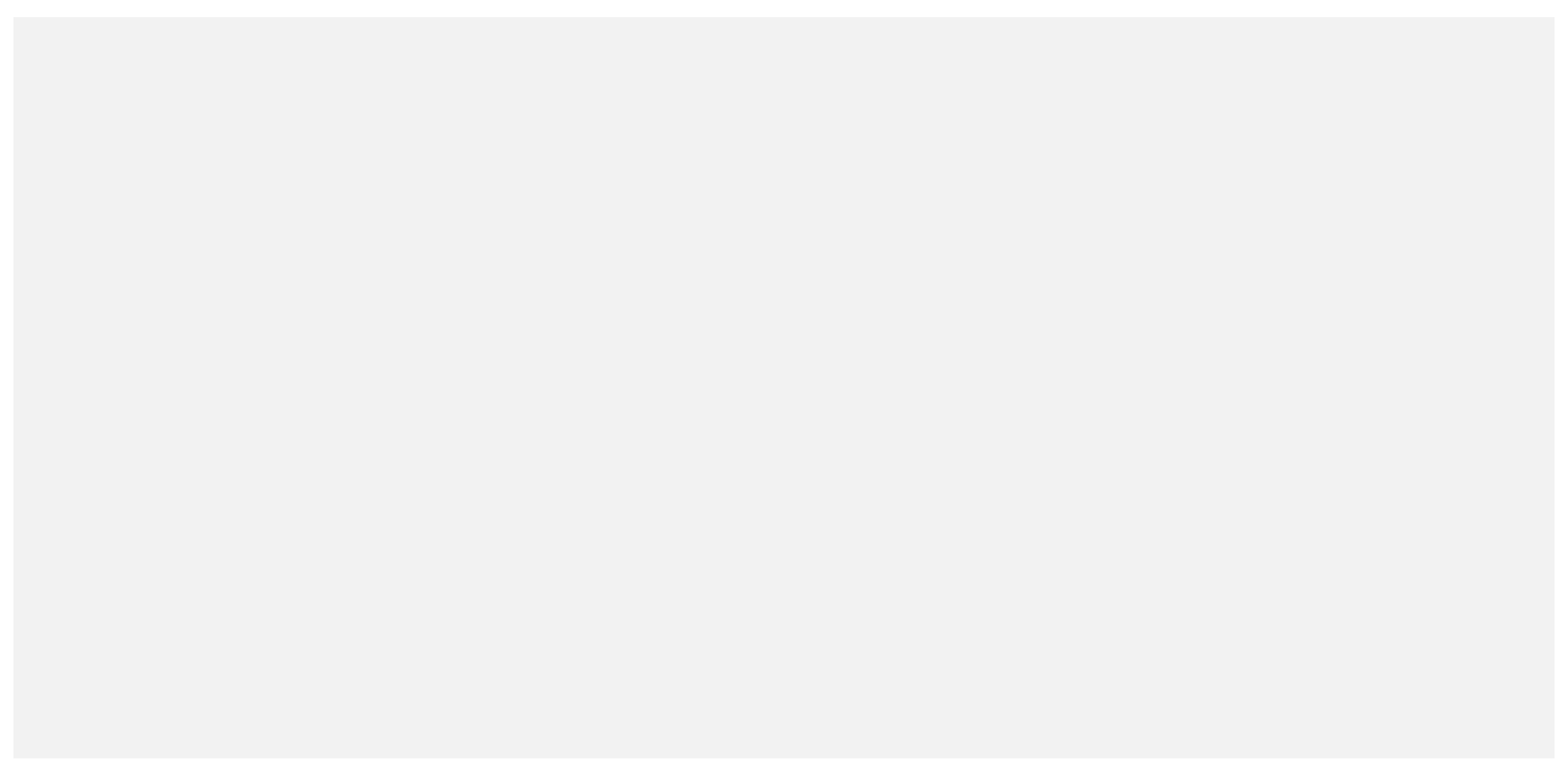
US SECULAR INFLATION MODEL FEATURES	Δ-ADJUSTED Z-SCORE (Latest Value vs. 2010-19 Sample)
Automation: Capex/Employee Compensation (Latest Value = 27%)	(1.1)
Commodities: CRB Index (Latest Value = 521)	1.8
Demographics: Share of Population ≥ 65 Years Old (Latest Value = 17%)	2.2
Fed Reaction Function: Fed Balance Sheet as a % of GDP (Latest Value = 29%)	2.3
Fiscal Policy: Sovereign Fiscal Balance as a % of GDP (Latest Value = -6.5%)	0.8
Globalization: Imports of Goods and Services as a % of GDP (Latest Value = 15%)	1.2
Household Formation: Net Change in Domestic Households (Latest Value = 1628)	1.8
Income Inequality: Gini Coefficient (Latest Value = 0.49)	(1.9)
Labor Supply: Labor Force Participation Rate (Latest Value = 62.5)	1.2
Money Supply: M2 YoY (Latest Value = -2.3%)	(4.3)
Money Velocity: M2/Nominal GDP (Latest Value = 1.3)	(2.0)
Monopsony Power: S&P 100 Market Cap/S&P 500 Market Cap (Latest Value = 68%)	(5.7)
Populism: 25-54 Employment-to-Population Ratio (Latest Value = 80%)	(1.5)
Productivity: Output Per Hour of Nonfarm Labor YoY (Latest Value = 2.4%)	(1.1)
Public Debt: Federal Debt Held by the Public as a % of GDP (Latest Value = 107%)	6.0
Technology: NASDAQ 100 Market Cap/Russell 3000 Market Cap (Latest Value = 42%)	(4.7)
Wages: Employment Cost Index YoY (Latest Value = 4.3%)	5.8
Wealth Effect: Household Checkable Deposits as a % of Total Assets (Latest Value = 2%)	9.6
Wealth Inequality: Top-10% Share of Household Wealth (Latest Value = 49%)	4.5
Mean Z-Score	0.8
Weighted Z-Score	2.1
2010-19 Trend of Core PCE YoY	1.6%
2020-29 Trend Projection: Mean Z-Score Model	2.6%
2020-29 Trend Projection: Weighted Z-Score Model	3.0%
2020-to-date Trend of Core PCE YoY	3.6%

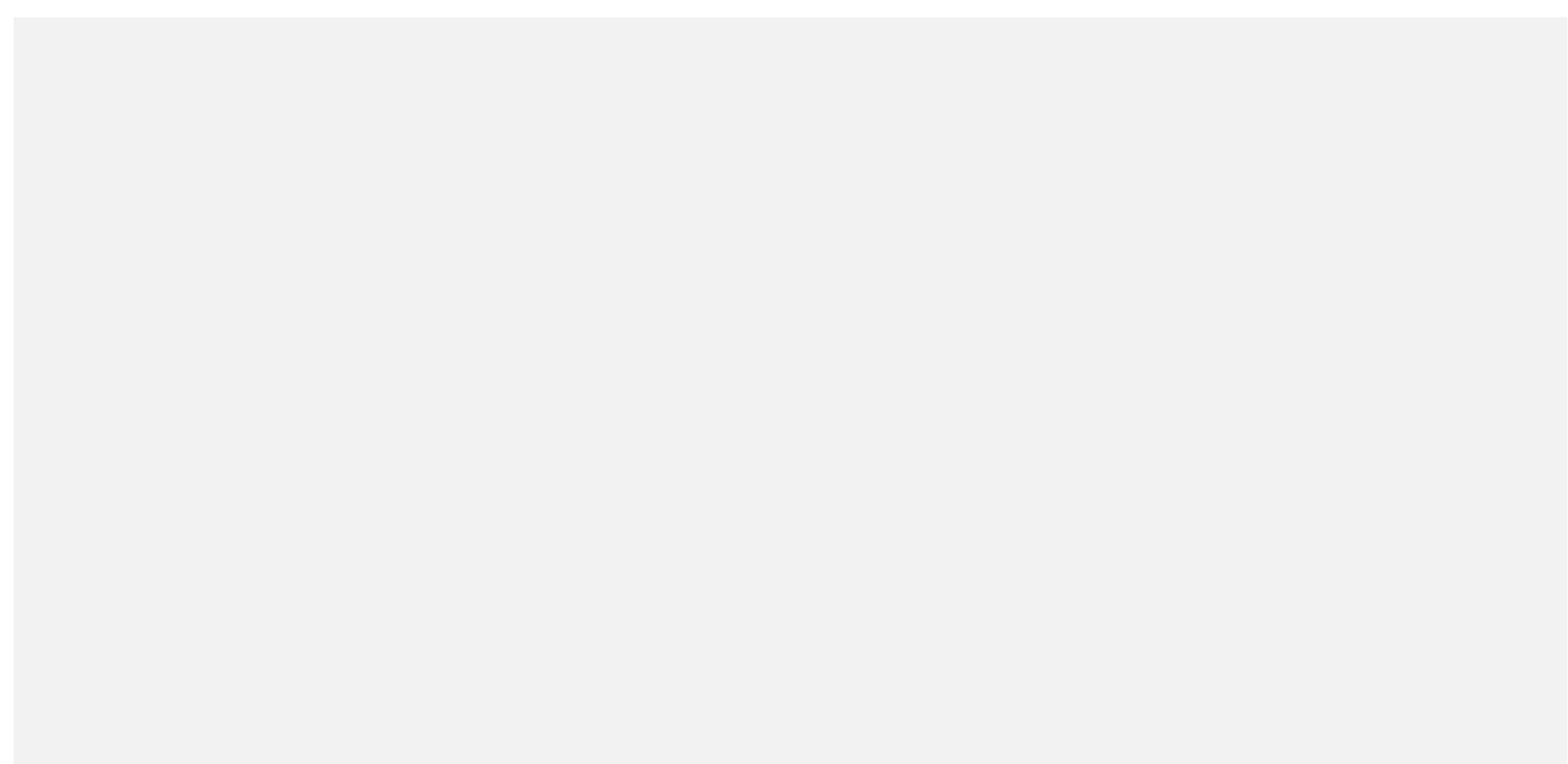
© 42 Macro LLC. Data Source: Bloomberg.

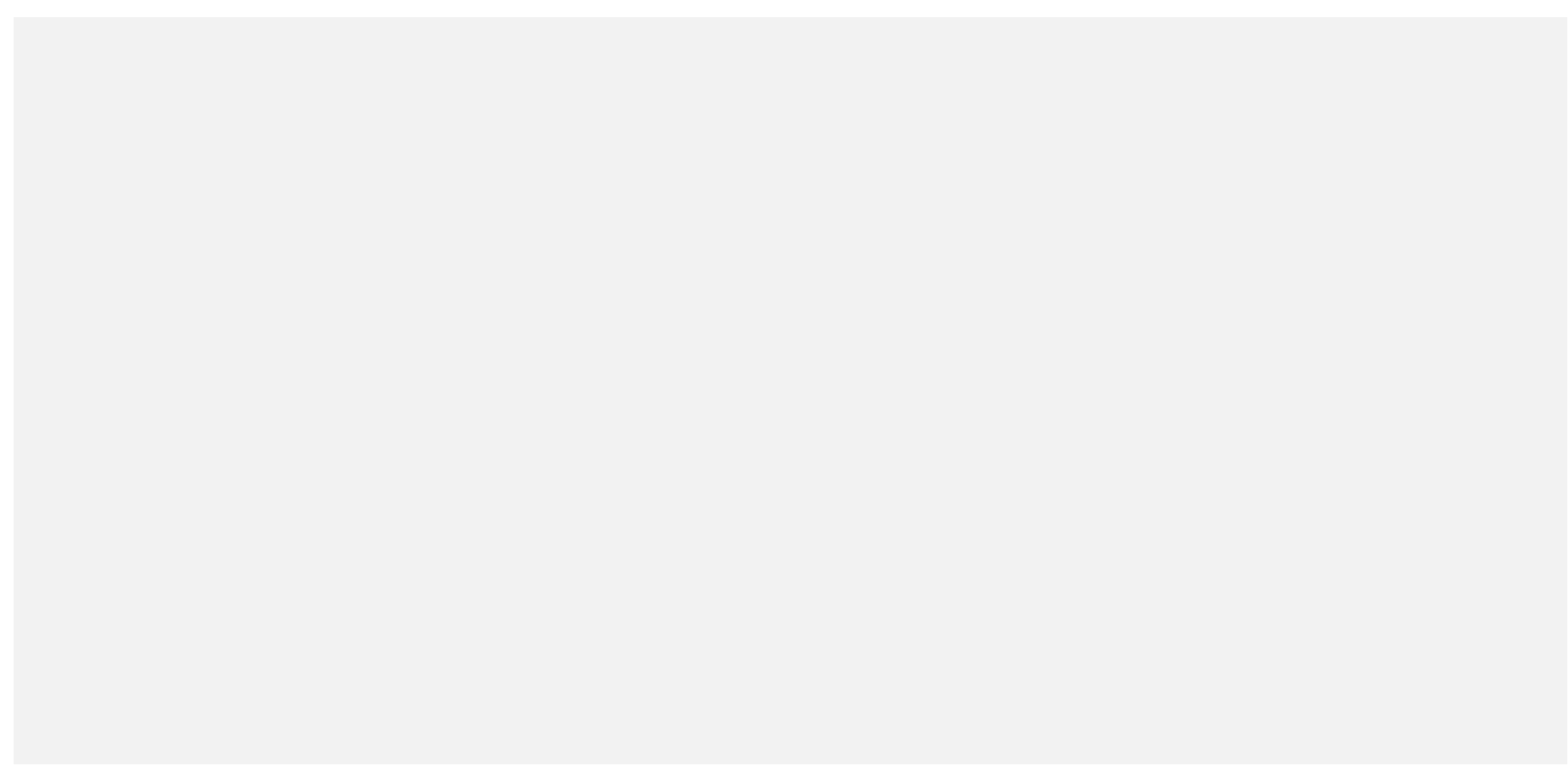
The 42 Macro Secular Inflation Model interpolates the normalized change of key indicators upon the underlying trend of Core PCE inflation on a raw and weighted basis. **Bold** font = highest weighted features.

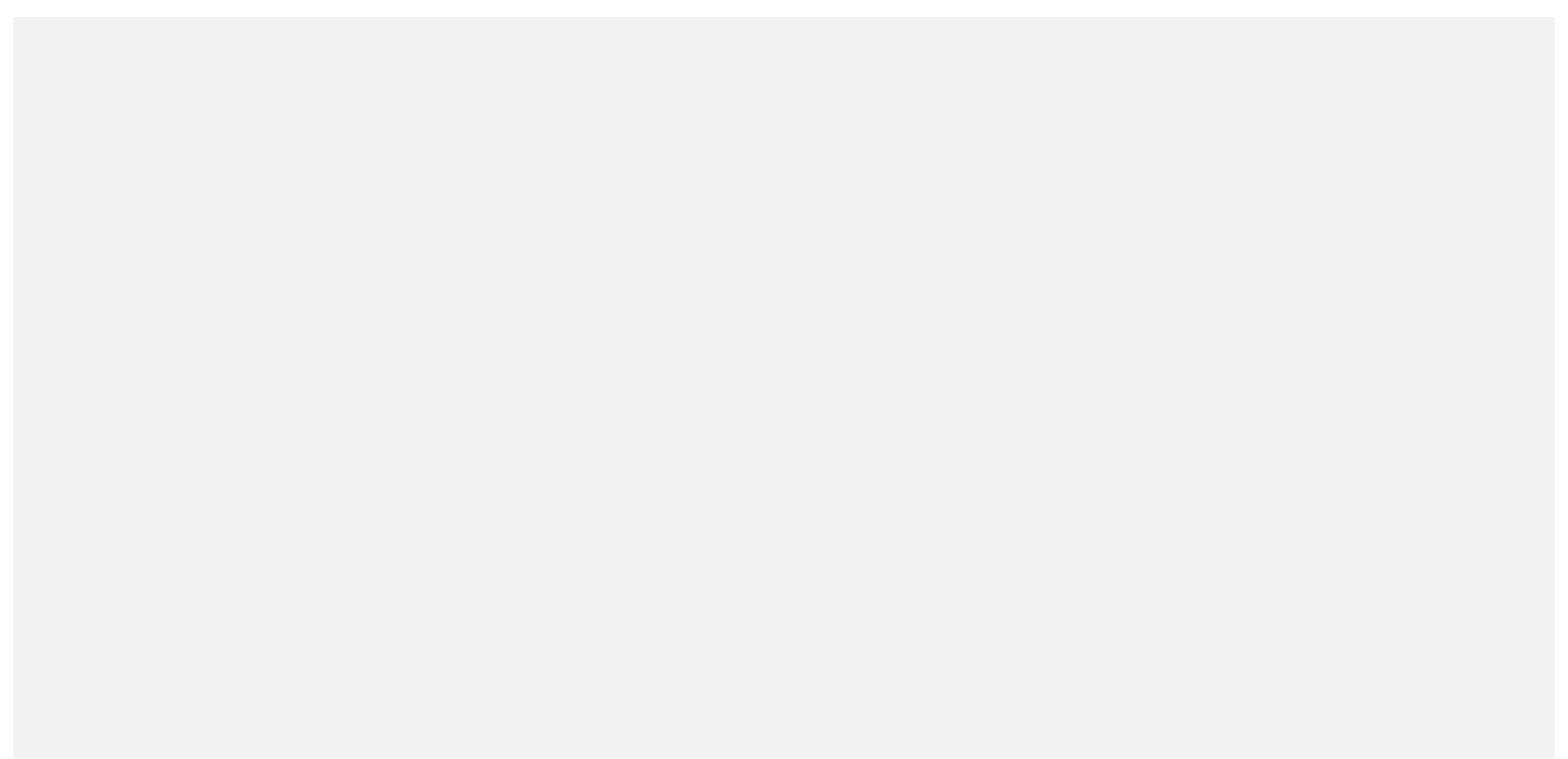


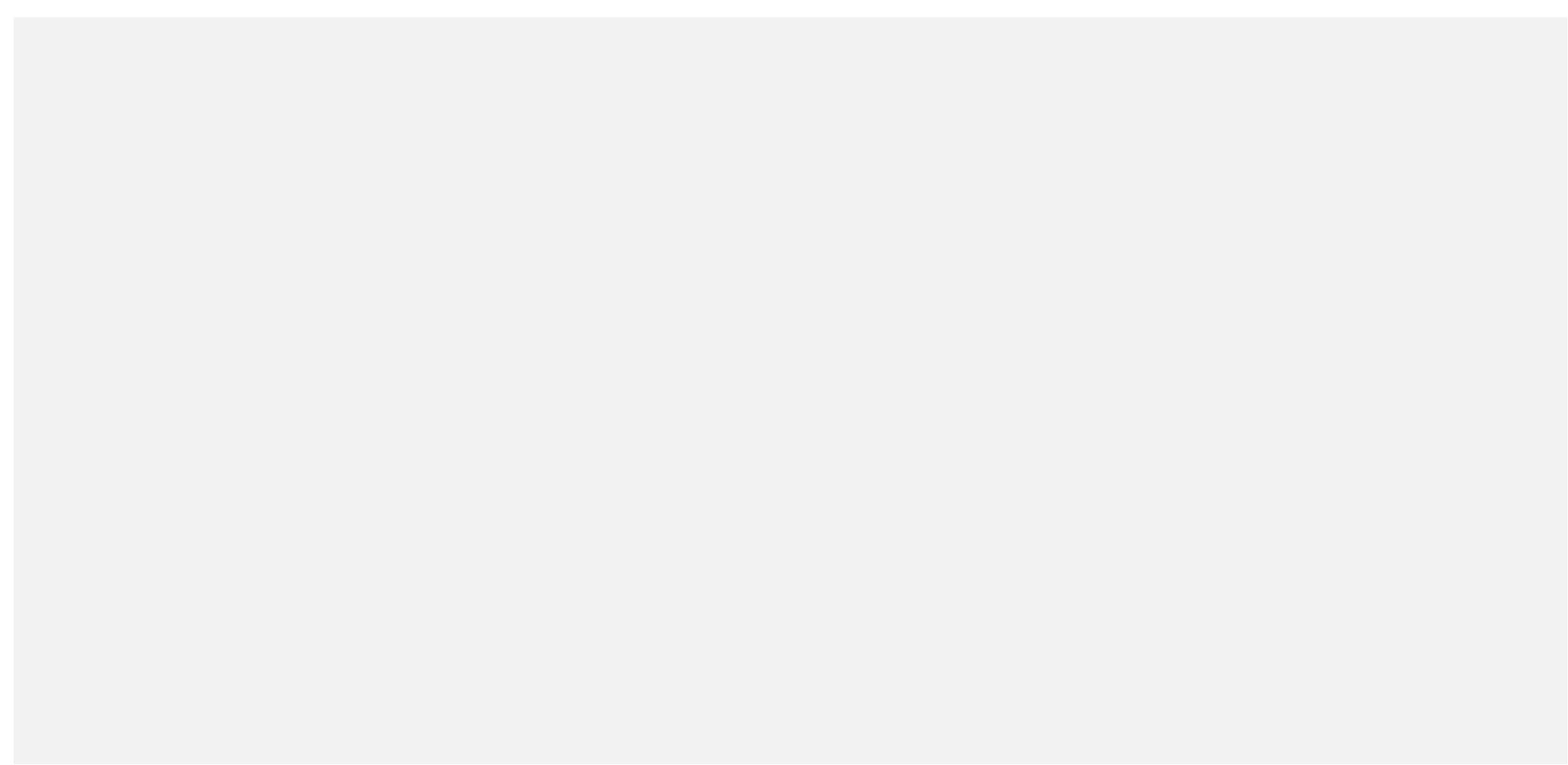


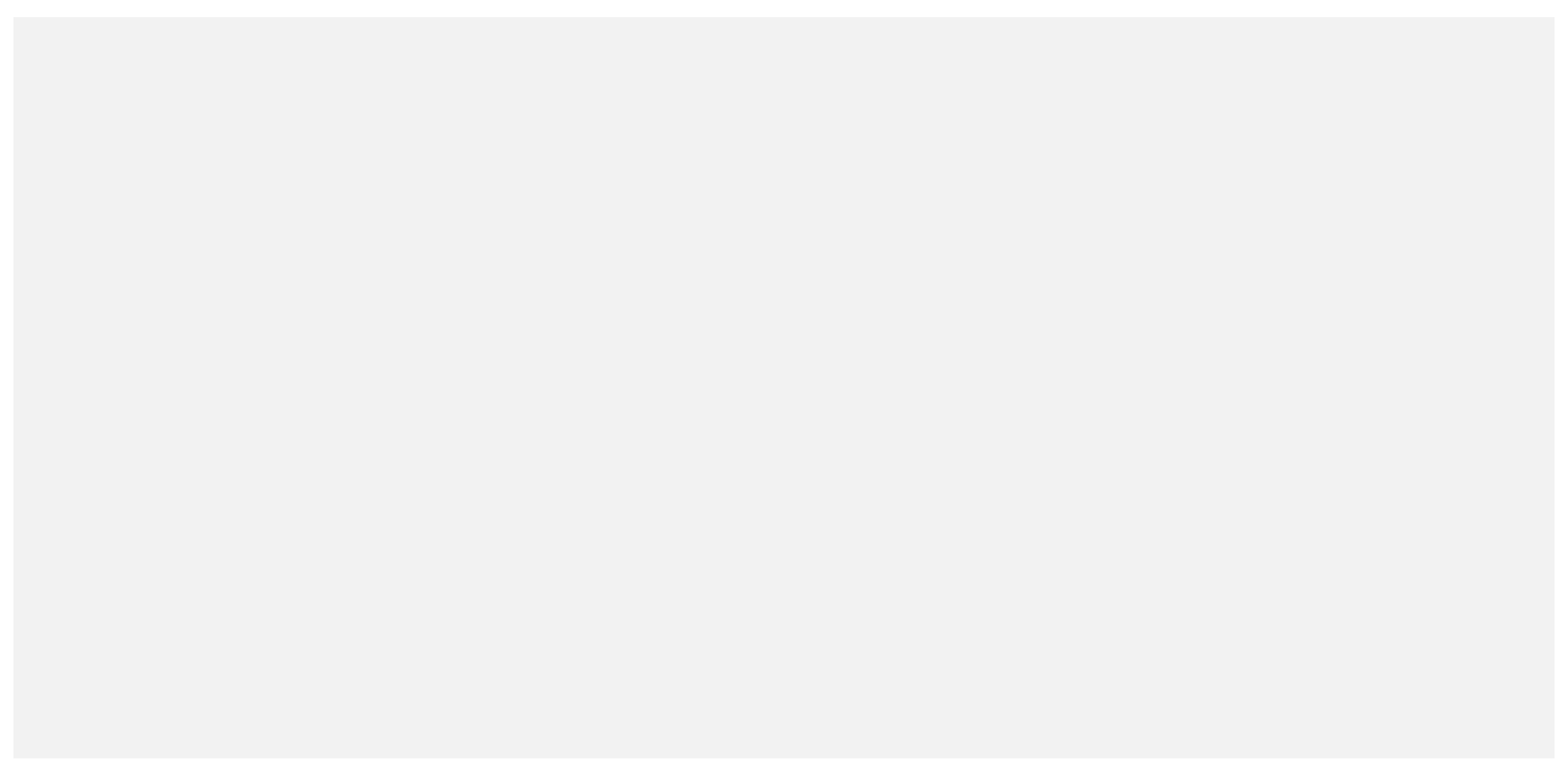


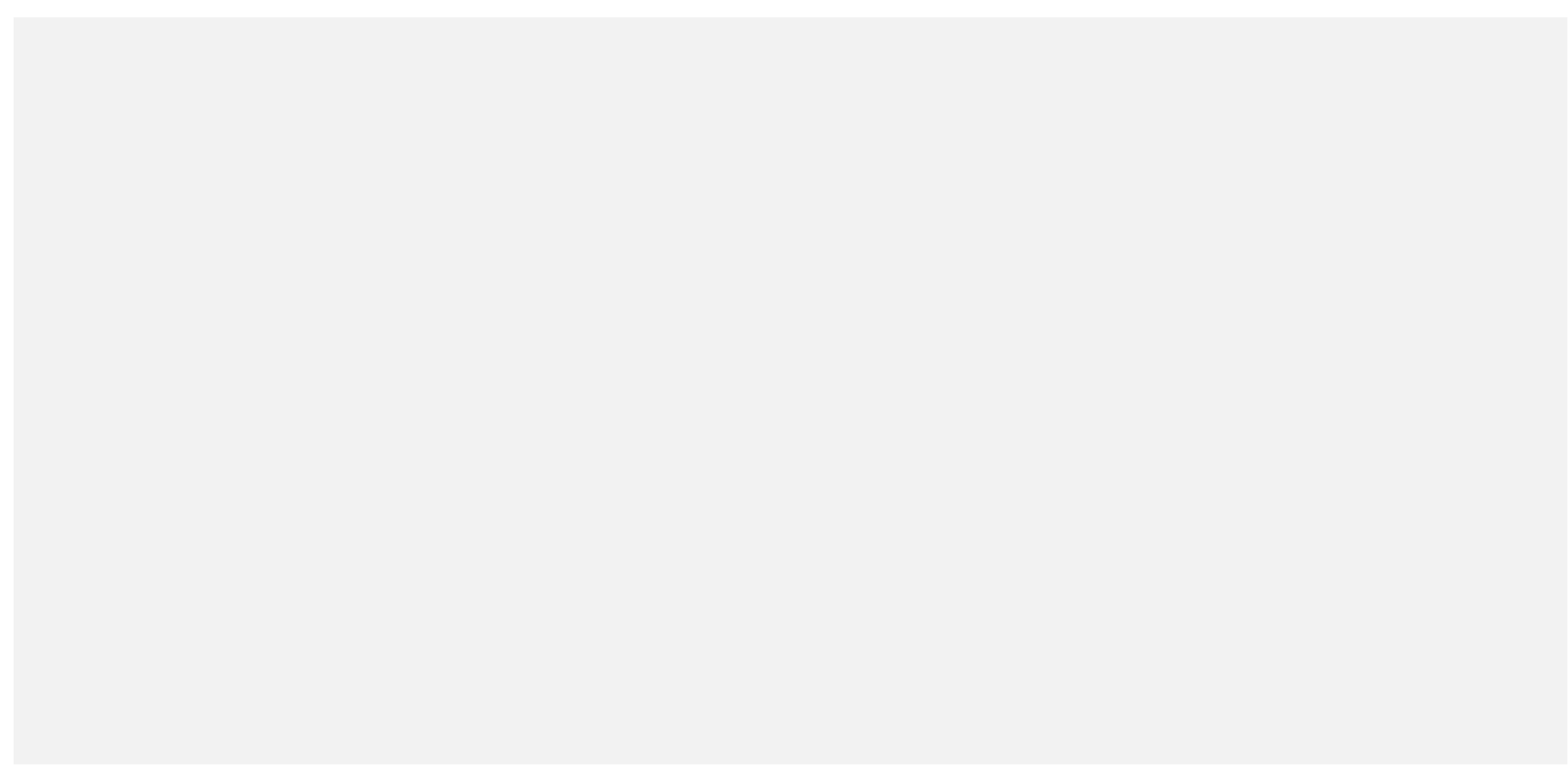


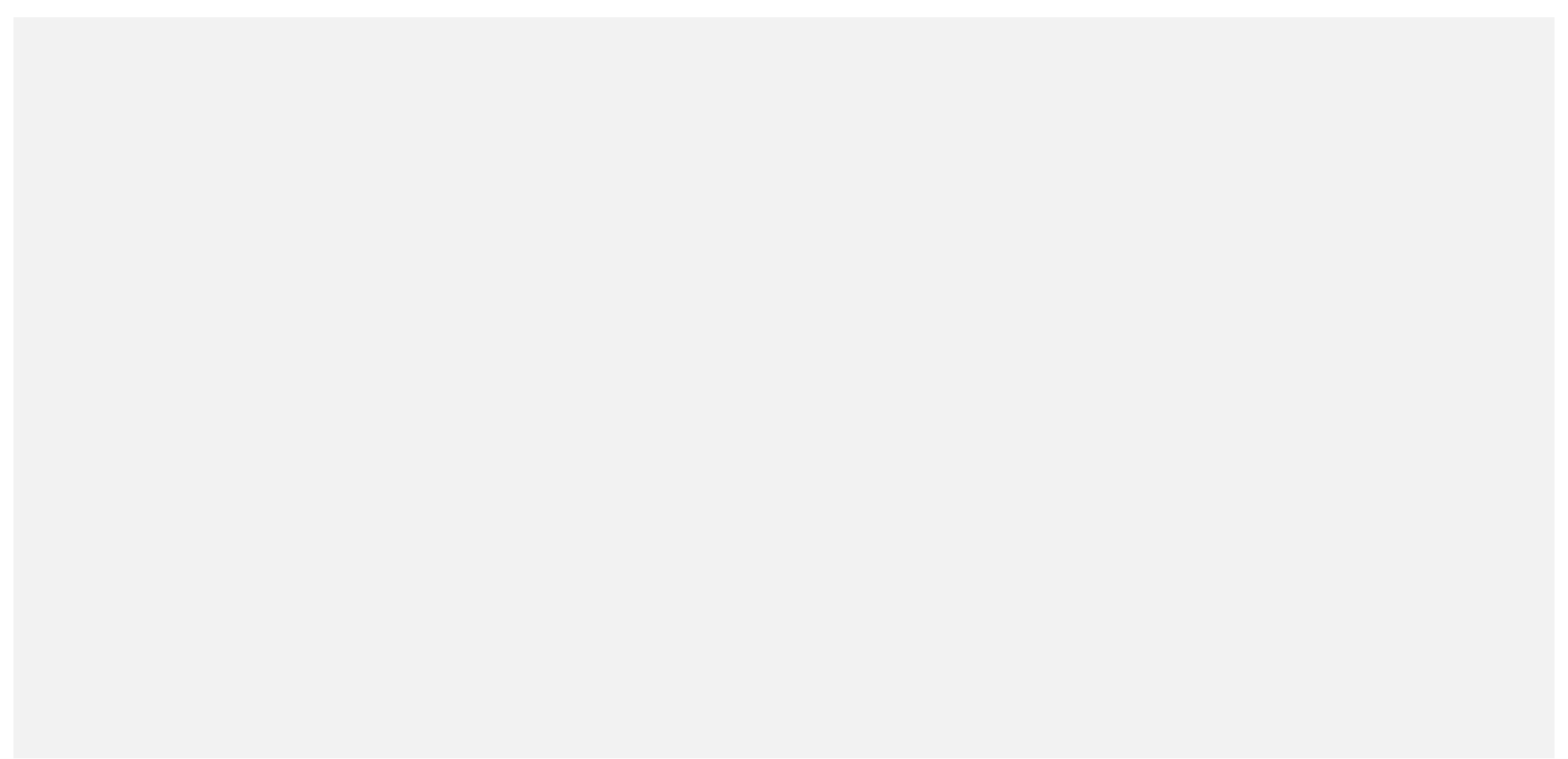


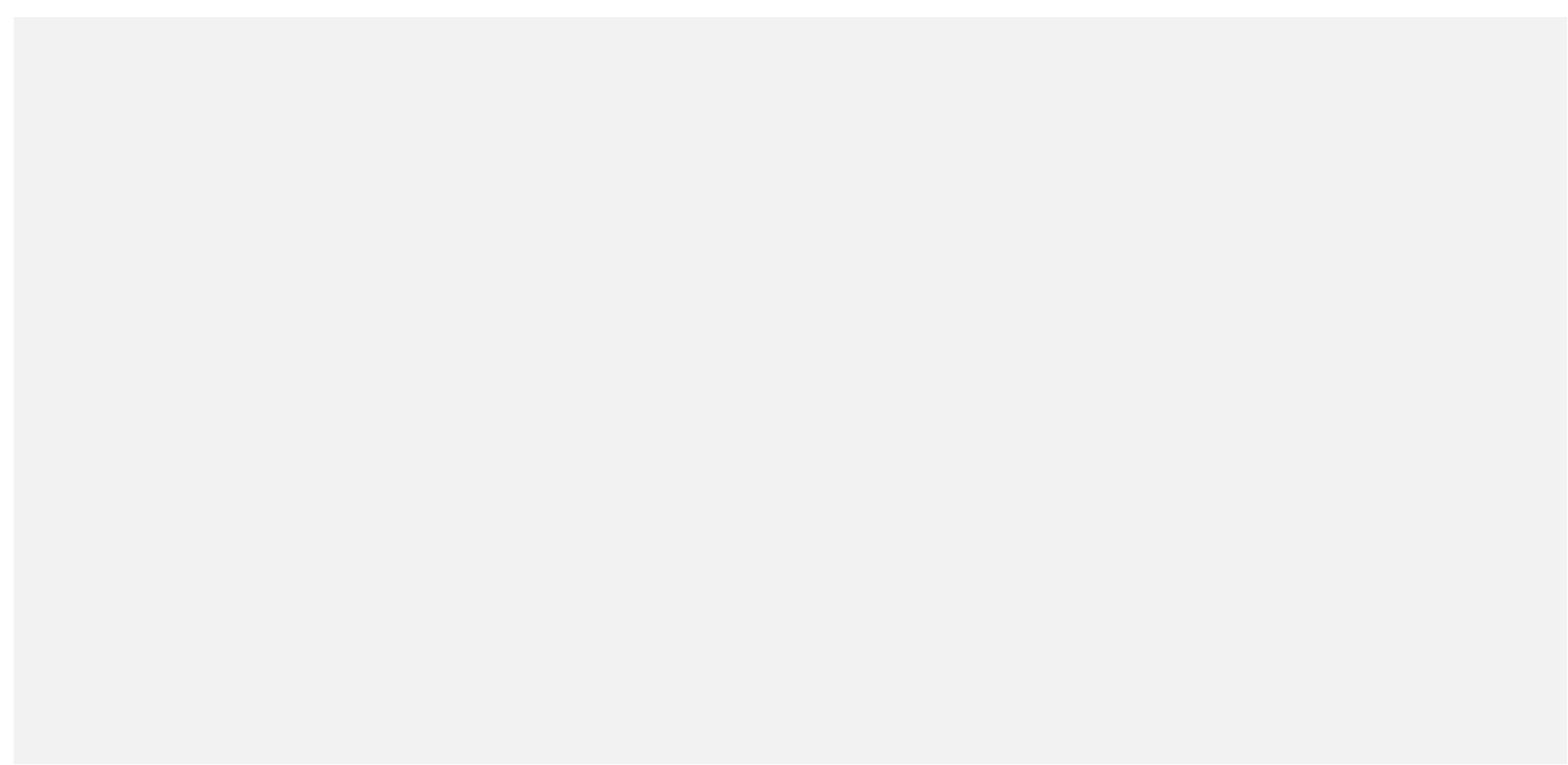


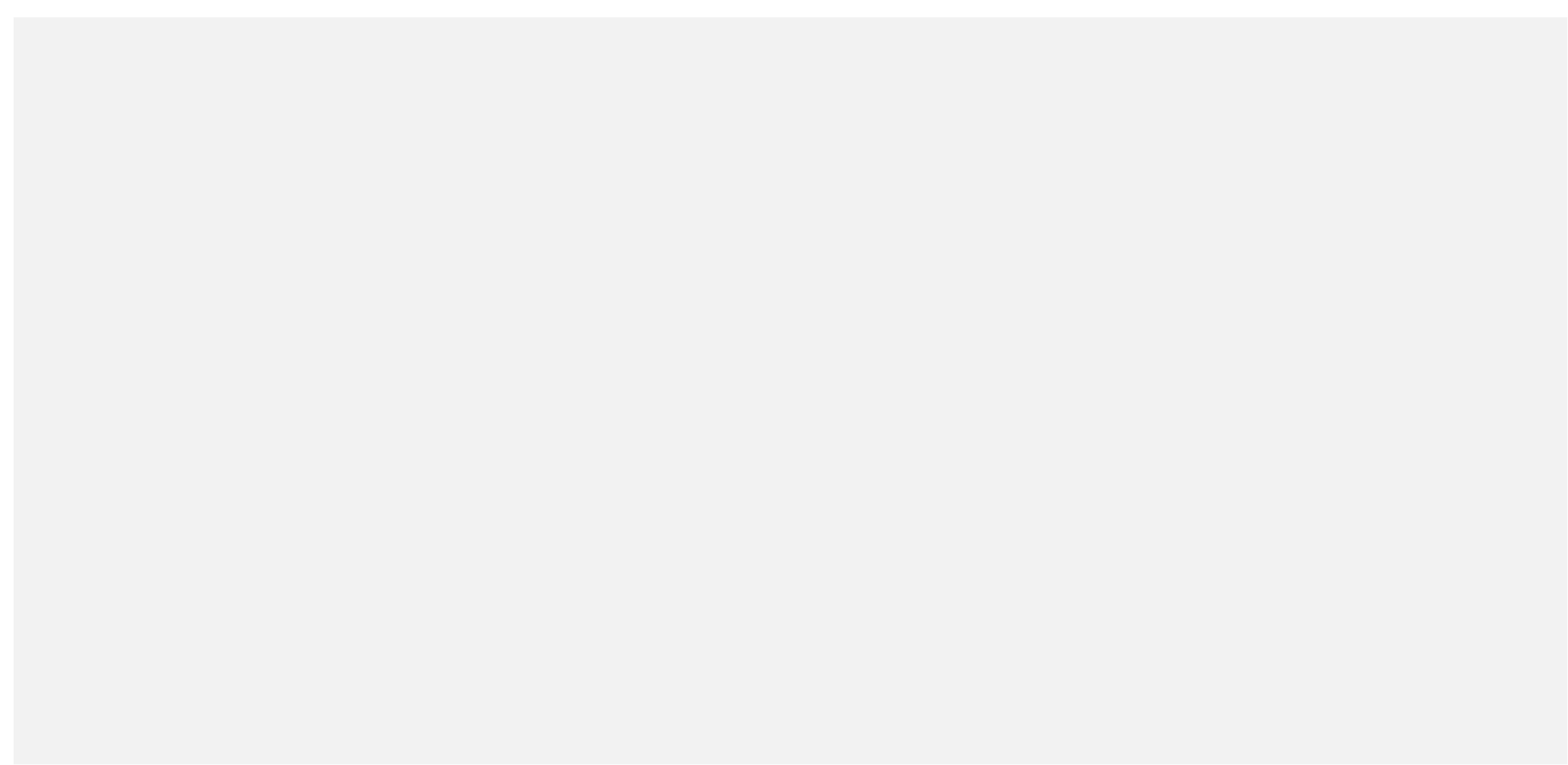


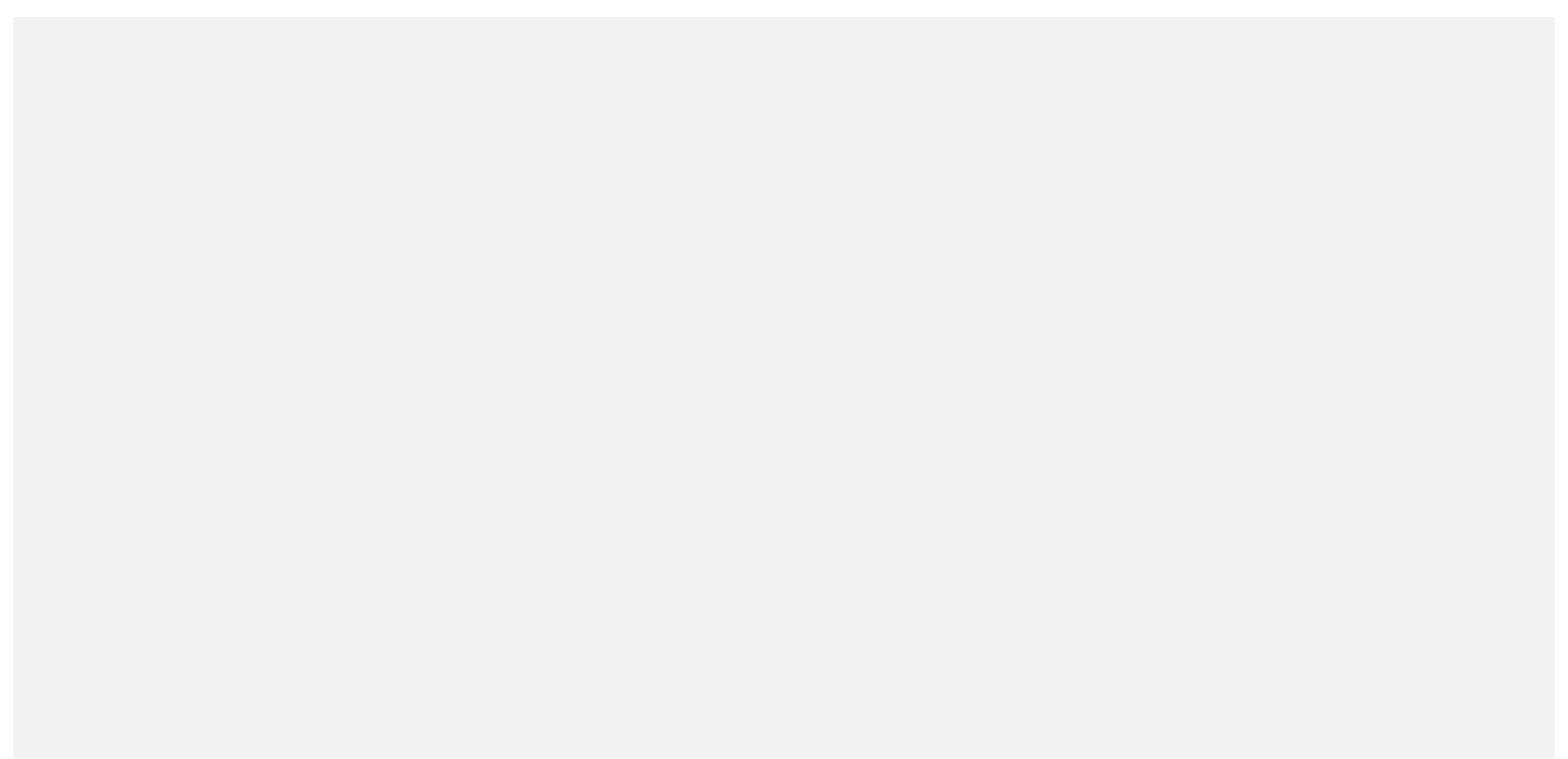

















ALCBANK INDEX (US Commercial bank Assets bank Credit SA) Commercial banks Treasu Quarterly 31MAR1947-30NOV2023

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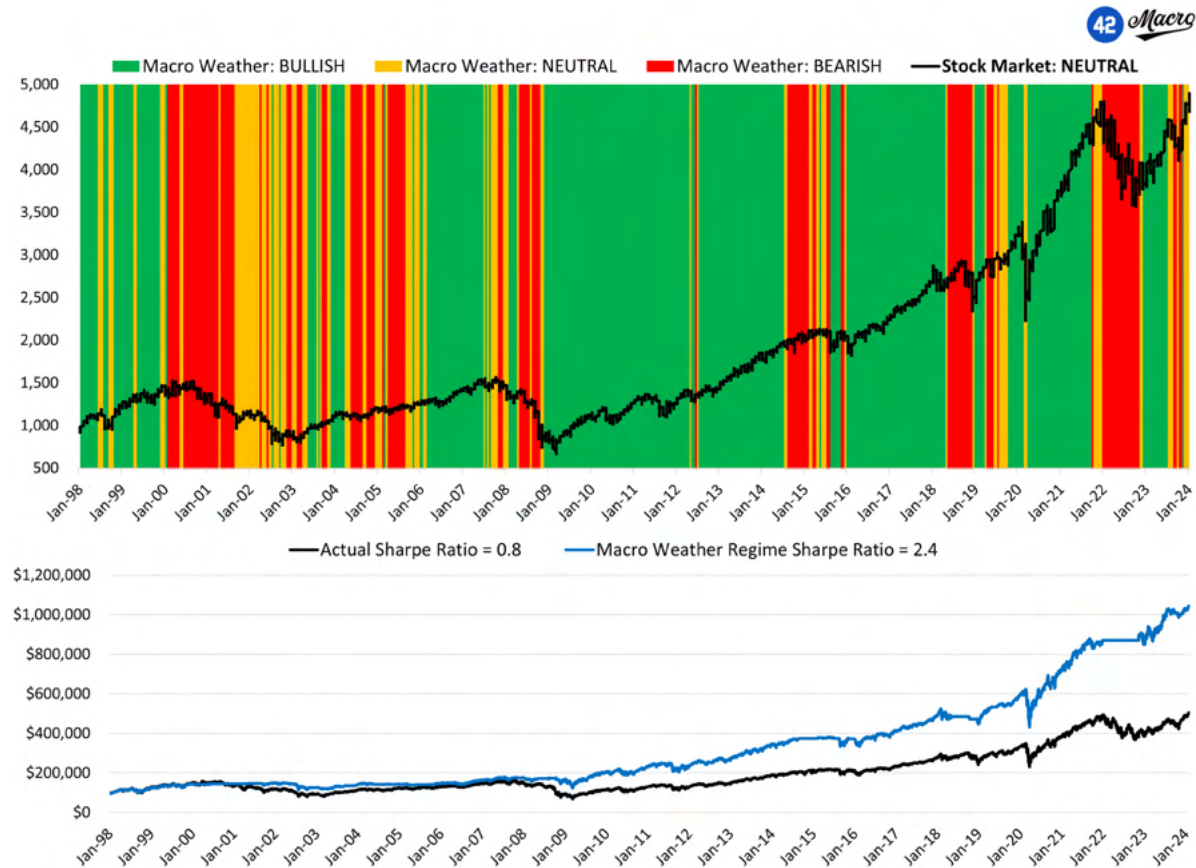
Appendix: Macro Weather Model Component Features

We Use Our **Macro Weather Model** (And Fundamental Research) To Determine How Long The Current Top-Down Market Regime Is Likely To Persist

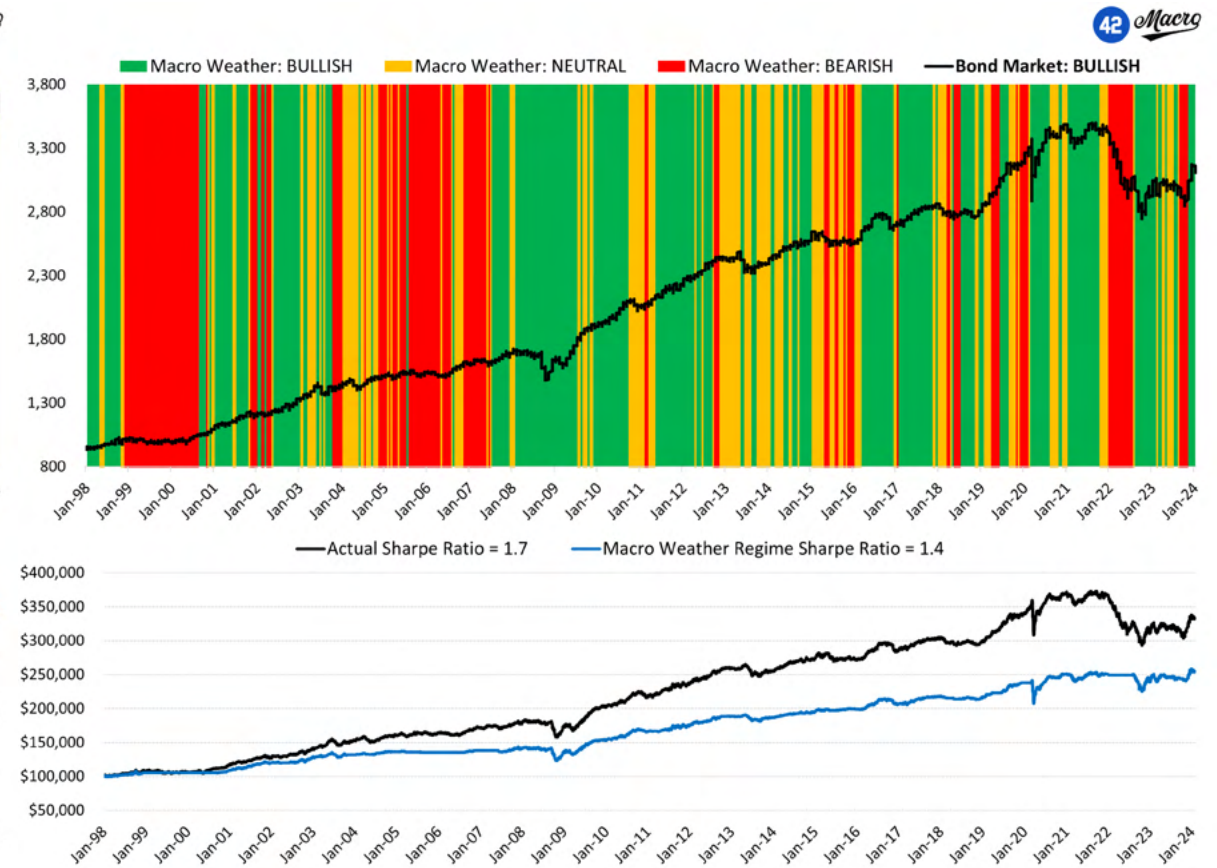
Ten Principal Components of Macro: Real Economy Cycles					United States 1/29/2024		Ten Principal Components of Macro: Financial Economy Cycles					
Growth		Previous Value	Latest Value	Previous Signal	Latest Signal	Stock Market  3-Month Outlook	Latest Signal	Previous Signal	Latest Value	Previous Value	Liquidity	
OECD Composite Leading Indicator		99.6	99.7	⬆️	⬆️		⬆️	⬆️	\$6,276	\$6,289	42 Macro Net Liquidity \$bn	
Consensus NTM Real GDP Δ		-190bps	-190bps	⬇️	⬇️		⬆️	⬆️	\$132,643	\$132,699	42 Macro Global Liquidity Proxy \$bn	
Inflation		Previous Value	Latest Value	Previous Signal	Latest Signal	Bond Market  3-Month Outlook	Latest Signal	Previous Signal	Latest Value	Previous Value	Credit	
Headline CPI YoY		3.1%	3.4%	⬇️	⬇️		⬇️	⬇️	-2.3%	-0.9%	Domestic Broad Money Supply YoY	
Consensus NTM Headline CPI Δ		-60bps	-110bps	⬇️	⬇️		⬇️	⬇️	2.7%	5.1%	Global PPP-Weighted Broad Money Supply YoY	
Employment		Previous Value	Latest Value	Previous Signal	Latest Signal	US Dollar  3-Month Outlook	Latest Signal	Previous Signal	Latest Value	Previous Value	Interest Rates	
Unemployment Rate		3.7%	3.7%	⬆️	⬆️		➡️	➡️	5.50%	5.50%	Benchmark Policy Rate	
Consensus NTM Unemployment Rate Δ		50bps	50bps	⬆️	⬆️		⬇️	⬇️	-115bps	-115bps	2yr Nominal Yield-Benchmark Policy Rate Spread	
Corporate Profits		Previous Value	Latest Value	Previous Signal	Latest Signal	Commodities  3-Month Outlook	Latest Signal	Previous Signal	Latest Value	Previous Value	Fear	
Consensus NTM/TTM S&P 500 Sales Growth Rate		3.4%	3.4%	⬇️	⬇️		⚠️	⚠️	-13%	-16%	Aggregated US Dollar Positioning	
Consensus NTM/TTM S&P 500 EPS Growth Rate		-4.0%	-4.0%	⬆️	⬆️		❌	❌	-20%	-20%	Aggregated US Treasurys Positioning	
Fiscal Policy		Previous Value	Latest Value	Previous Signal	Latest Signal	Bitcoin  3-Month Outlook	Latest Signal	Previous Signal	Latest Value	Previous Value	Greed	
Sovereign Fiscal Balance/Nominal GDP Ratio		-6.3%	-6.5%	⬇️	⬆️		❌	❌	-0%	-1%	Aggregated Commodities Positioning	
USD Real Effective Exchange Rate		108.4	106.6	⬆️	⬆️		⚠️	⚠️	-4%	-3%	Aggregated US Equities Positioning	
GRID Regime: GOLDILOCKS Conviction: MEDIUM												

© 42 Macro LLC. Data Source: Bloomberg. How the model works: Each of the 20 features representing the Ten Principal Components of Macro contributes independently to the independent Composite Signals for each asset class. Each Composite Signal is designed to predict whether observed macroeconomic conditions – aka the “Macro Weather” – support **buying**, **holding**, or **selling** the asset class today with a 3-month investment horizon.

Weather Model Composite Signal: Stock Market

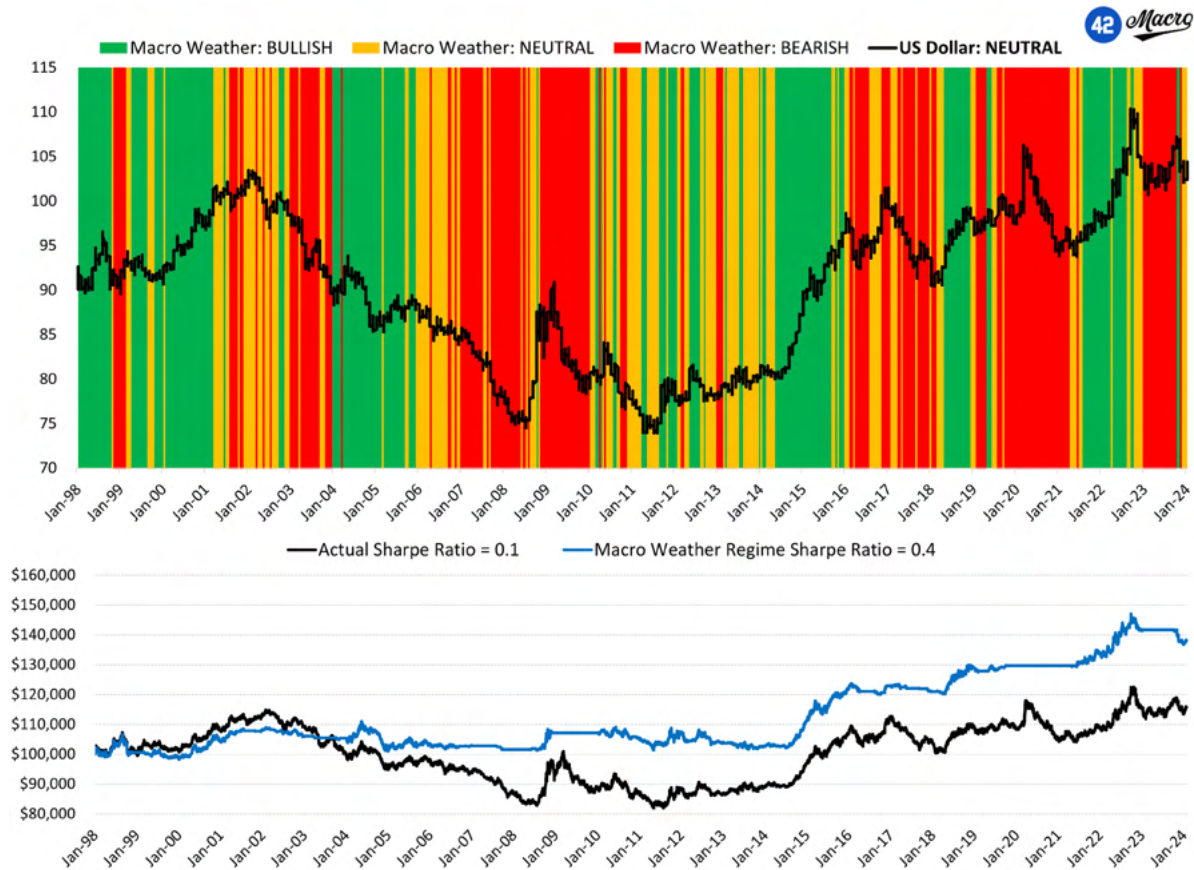


Weather Model Composite Signal: Bond Market

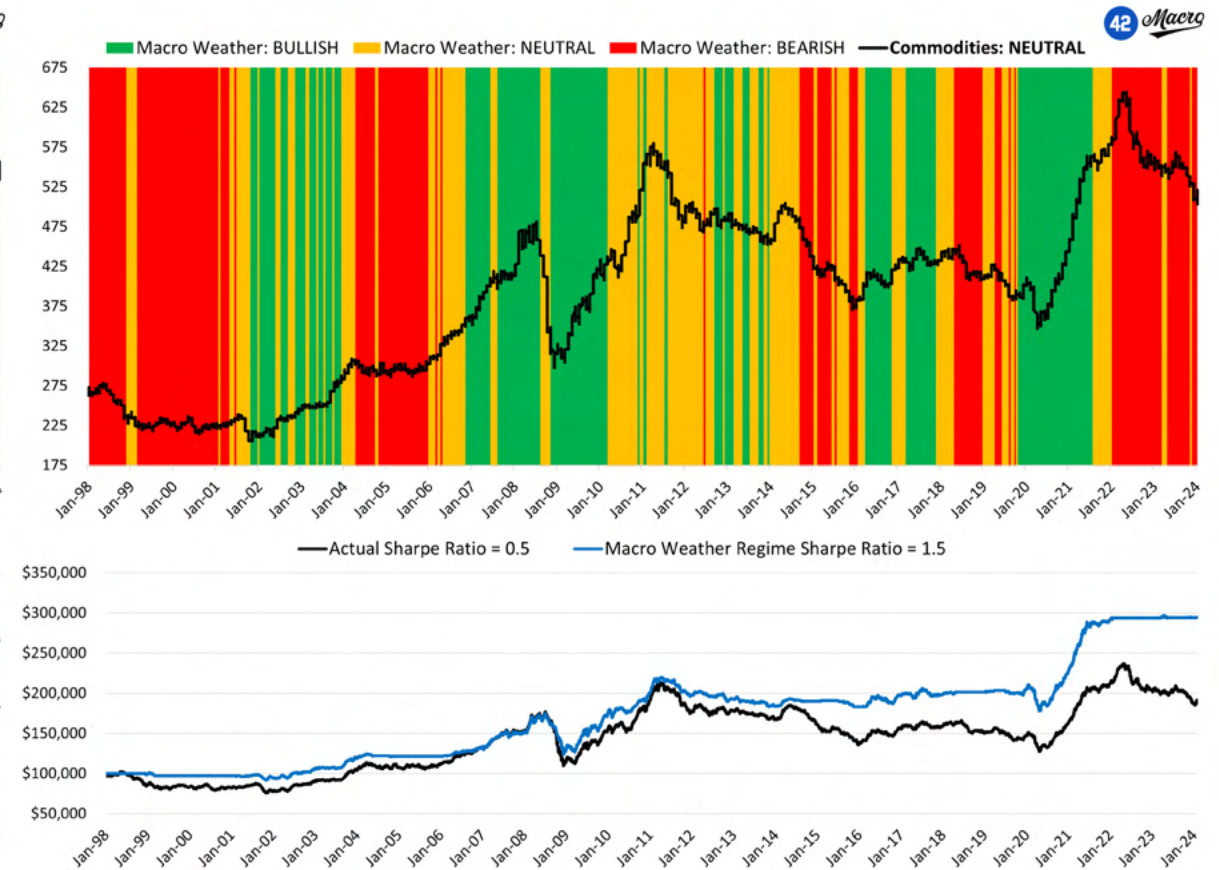


© 42 Macro LLC. Data Source: Bloomberg. Hypothetical growth of a \$100,000 investment made on 1/1/98. The backtest goes long the exposure at the close in the subsequent trading day following a fresh bullish signal, cuts the position in half at the close in the subsequent trading day following a fresh neutral signal, and closes the long position at the close in the subsequent trading day following a fresh bearish signal. The lag is designed to simulate real-world trading conditions. The process works in reverse when exiting bearish periods.

Weather Model Composite Signal: US Dollar

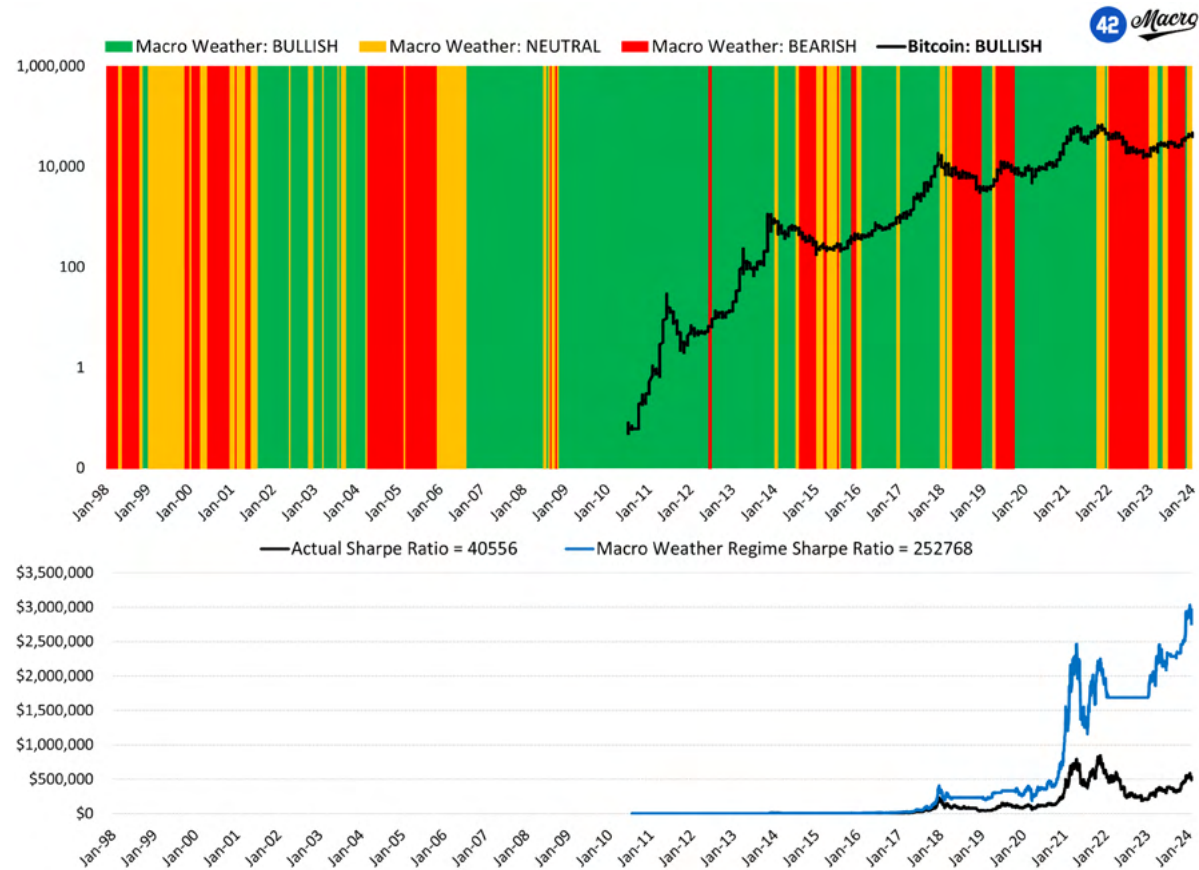


Weather Model Composite Signal: Commodities



© 42 Macro LLC. Data Source: Bloomberg. Hypothetical growth of a \$100,000 investment made on 1/1/98. The backtest goes long the exposure at the close in the subsequent trading day following a fresh bullish signal, cuts the position in half at the close in the subsequent trading day following a fresh neutral signal, and closes the long position at the close in the subsequent trading day following a fresh bearish signal. The lag is designed to simulate real-world trading conditions. The process works in reverse when exiting bearish periods.

Weather Model Composite Signal: Bitcoin

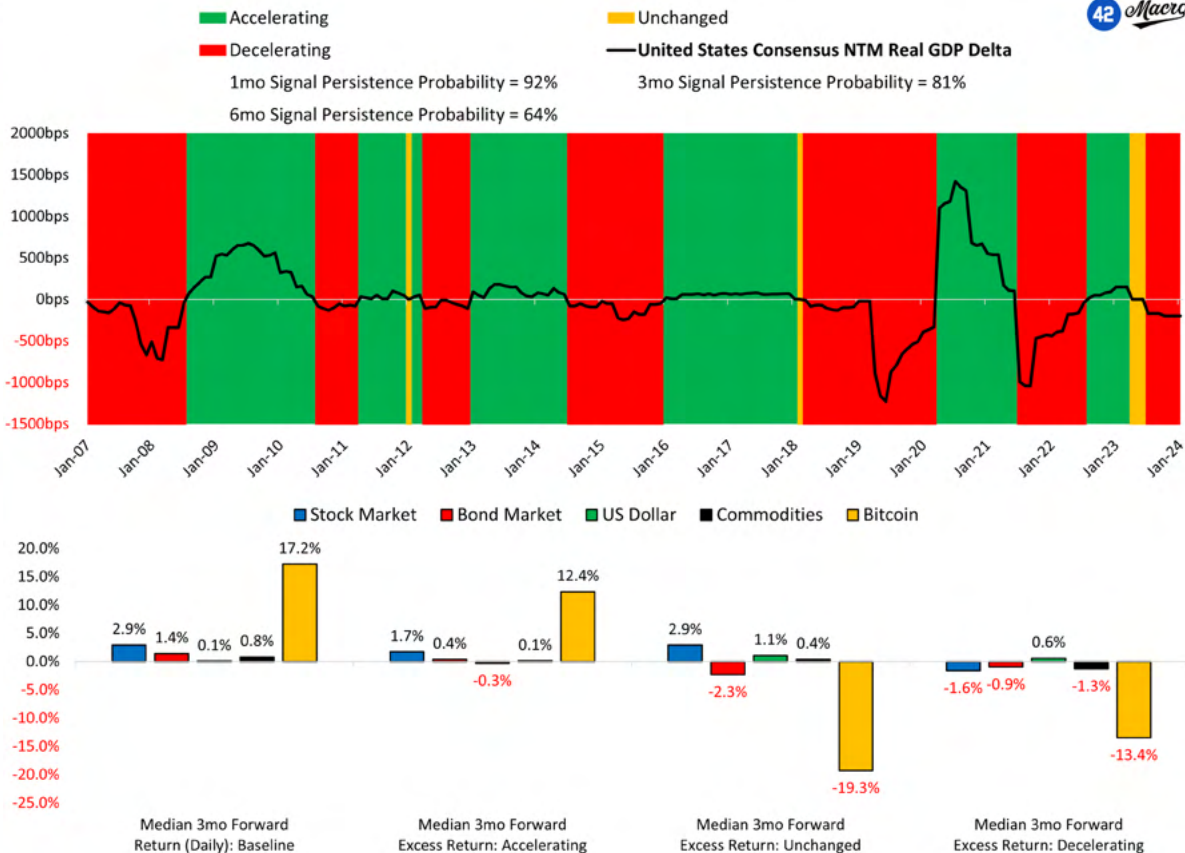


© 42 Macro LLC. Data Source: Bloomberg. Hypothetical growth of a \$1 investment made on 7/19/10 (first day of Bloomberg data). The backtest goes long the exposure at the close in the subsequent trading day following a fresh bullish signal, cuts the position in half at the close in the subsequent trading day following a fresh neutral signal, and closes the long position at the close in the subsequent trading day following a fresh bearish signal. The lag is designed to simulate real-world trading conditions. The process works in reverse when exiting bearish periods.

Growth: OECD Composite Leading Indicator

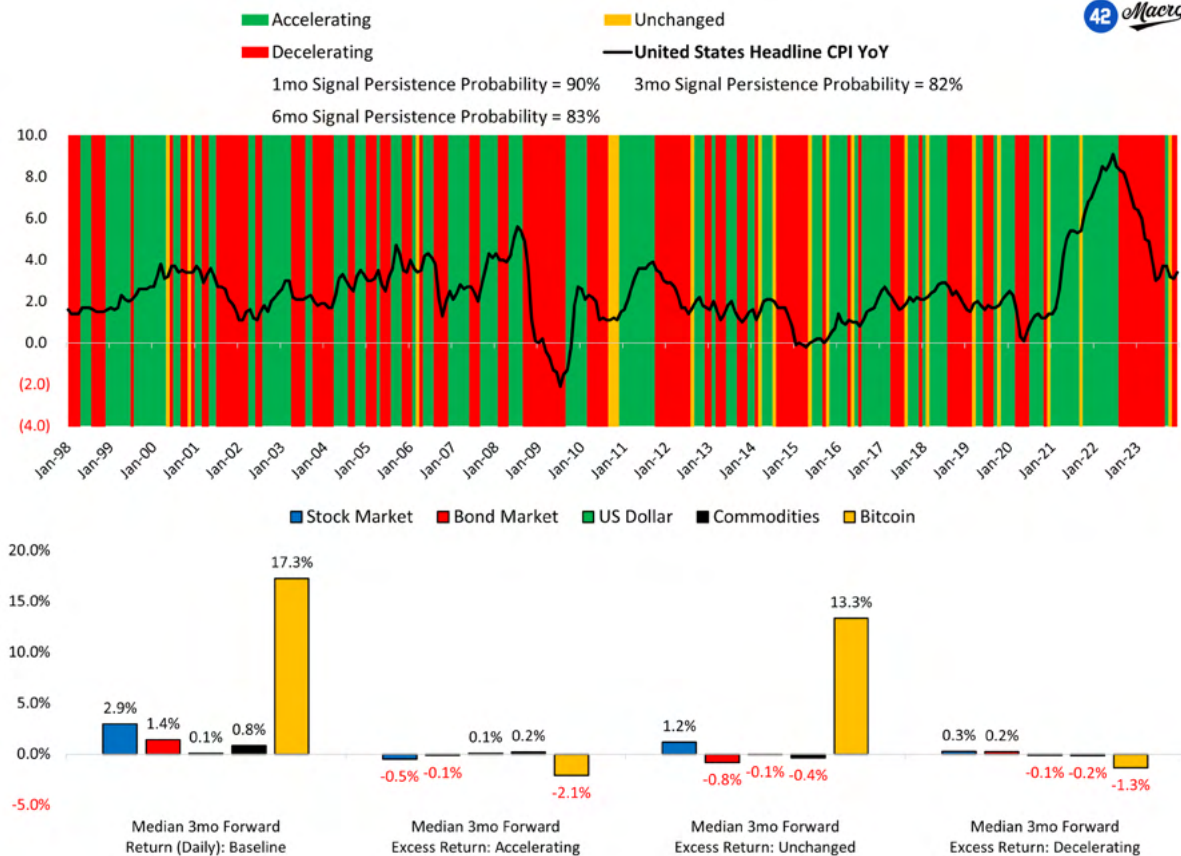


Growth: Consensus NTM Real GDP Δ

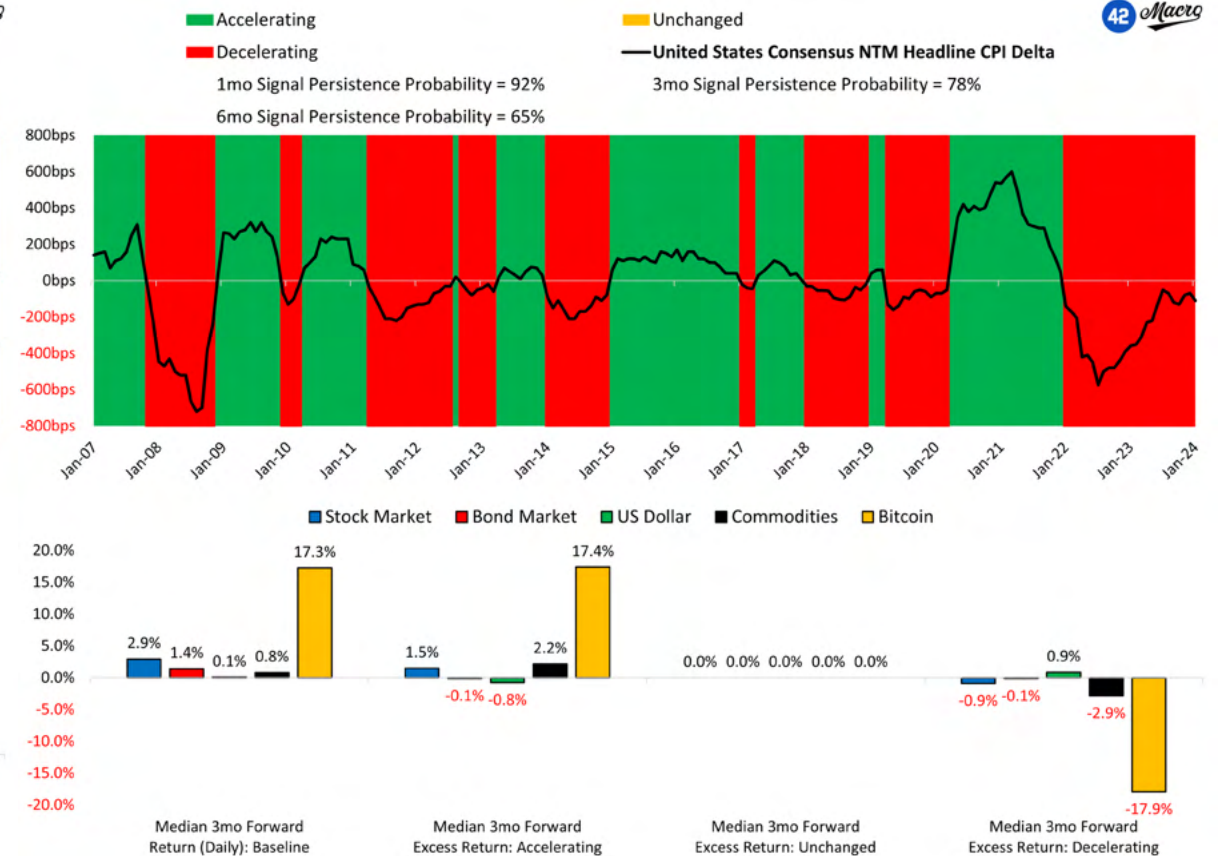


© 42 Macro LLC. Data Source: Bloomberg. The 42 Macro Weather Model works by segmenting each feature into distinct regimes and conducting rolling out-of-sample backtests on indiscrete periods to quantify dispersion across regimes, for each liquid asset class. The excess return dispersion projected by these independent out-of-sample backtests contribute independently to each independent Composite Signal.

Inflation: Headline CPI YoY

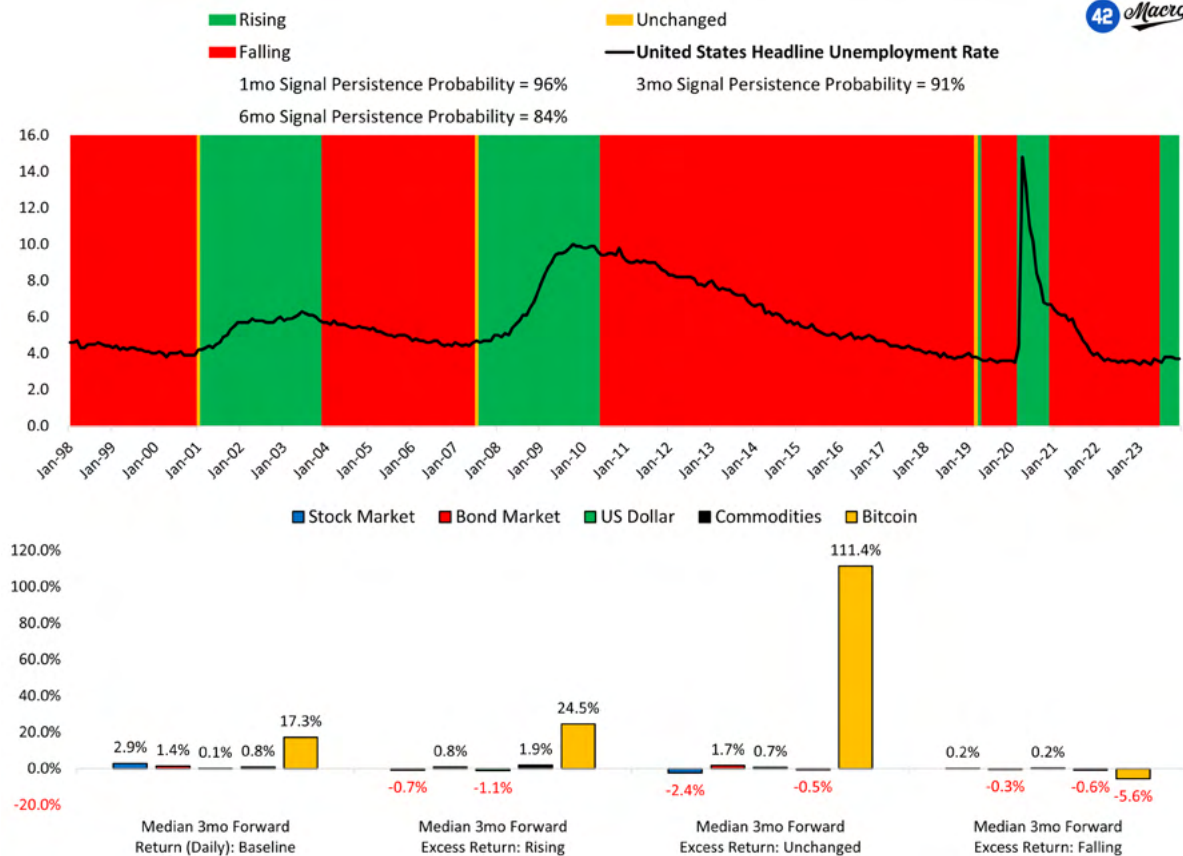


Inflation: Consensus NTM Headline CPI Δ

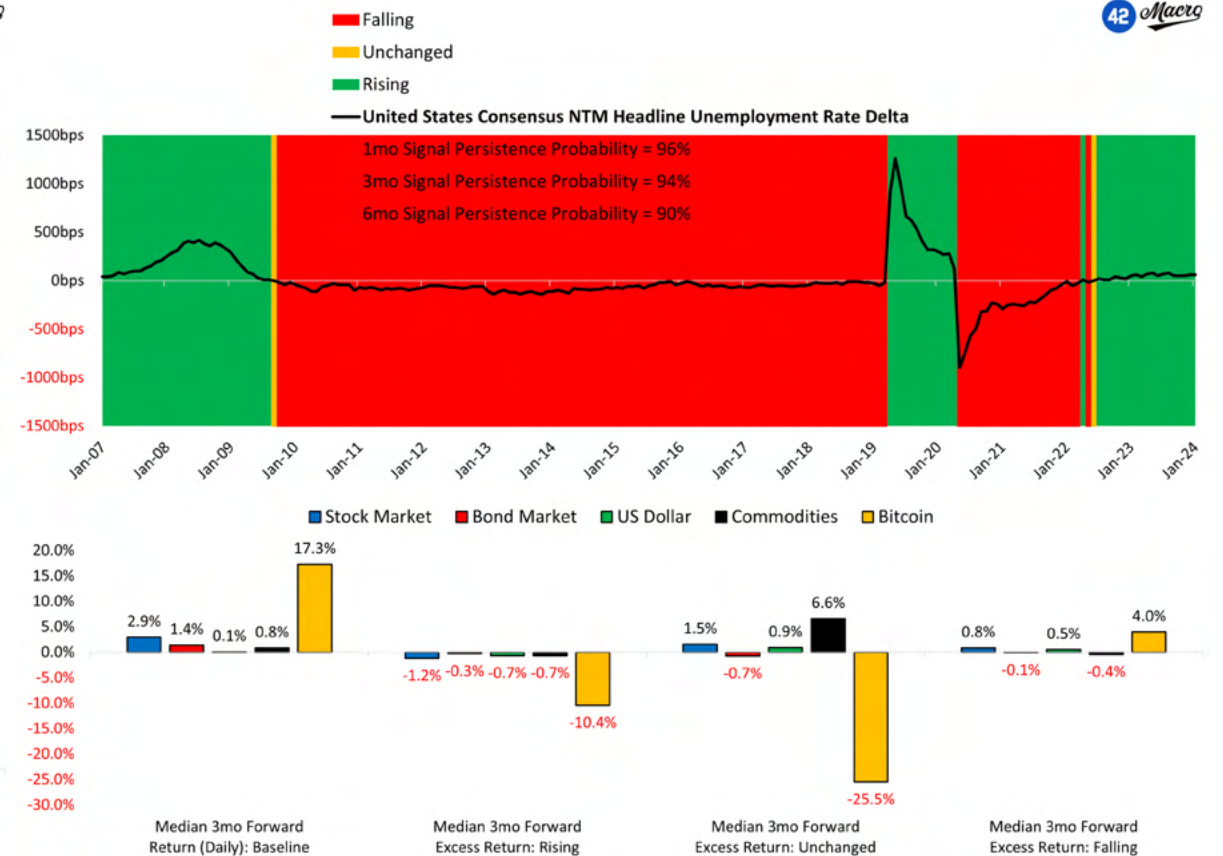


© 42 Macro LLC. Data Source: Bloomberg. The 42 Macro Weather Model works by segmenting each feature into distinct regimes and conducting rolling out-of-sample backtests on indiscrete periods to quantify dispersion across regimes, for each liquid asset class. The excess return dispersion projected by these independent out-of-sample backtests contribute independently to each independent Composite Signal.

Employment: Unemployment Rate

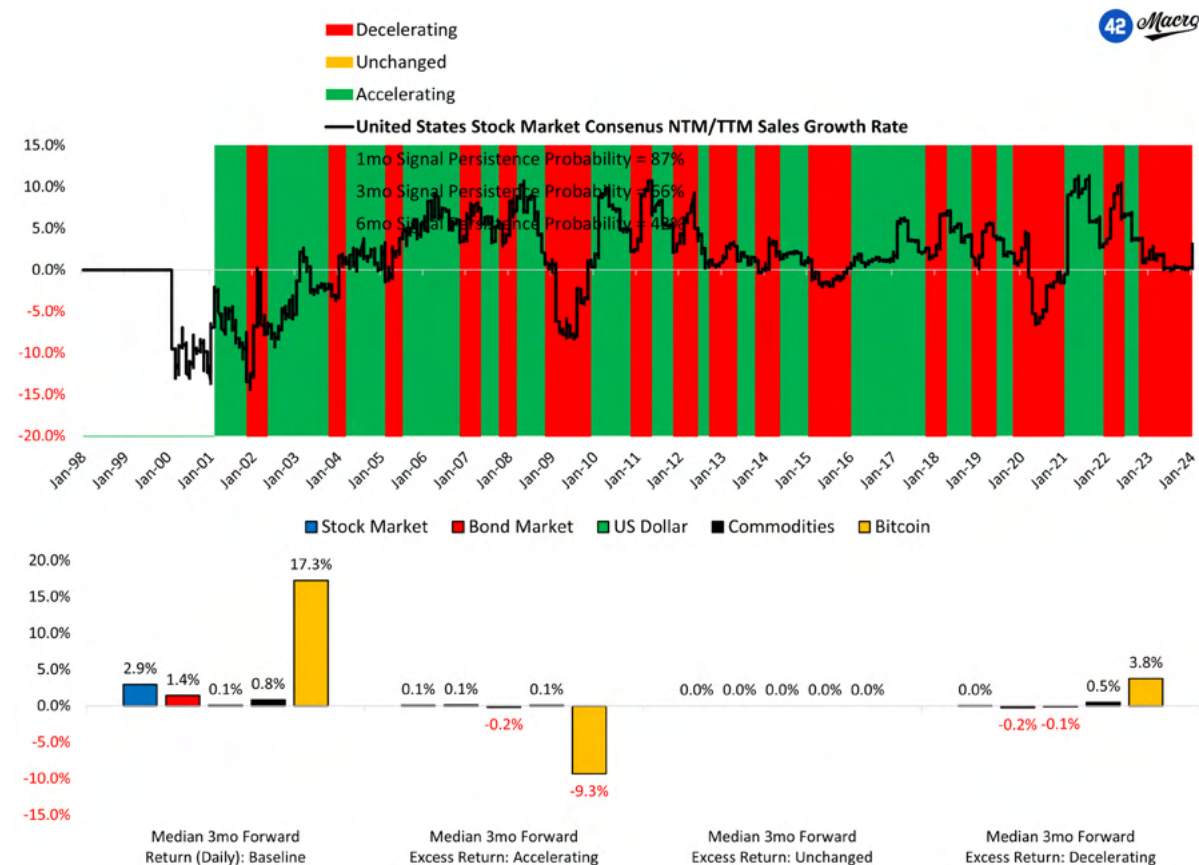


Employment: Consensus NTM Unemployment Rate Δ

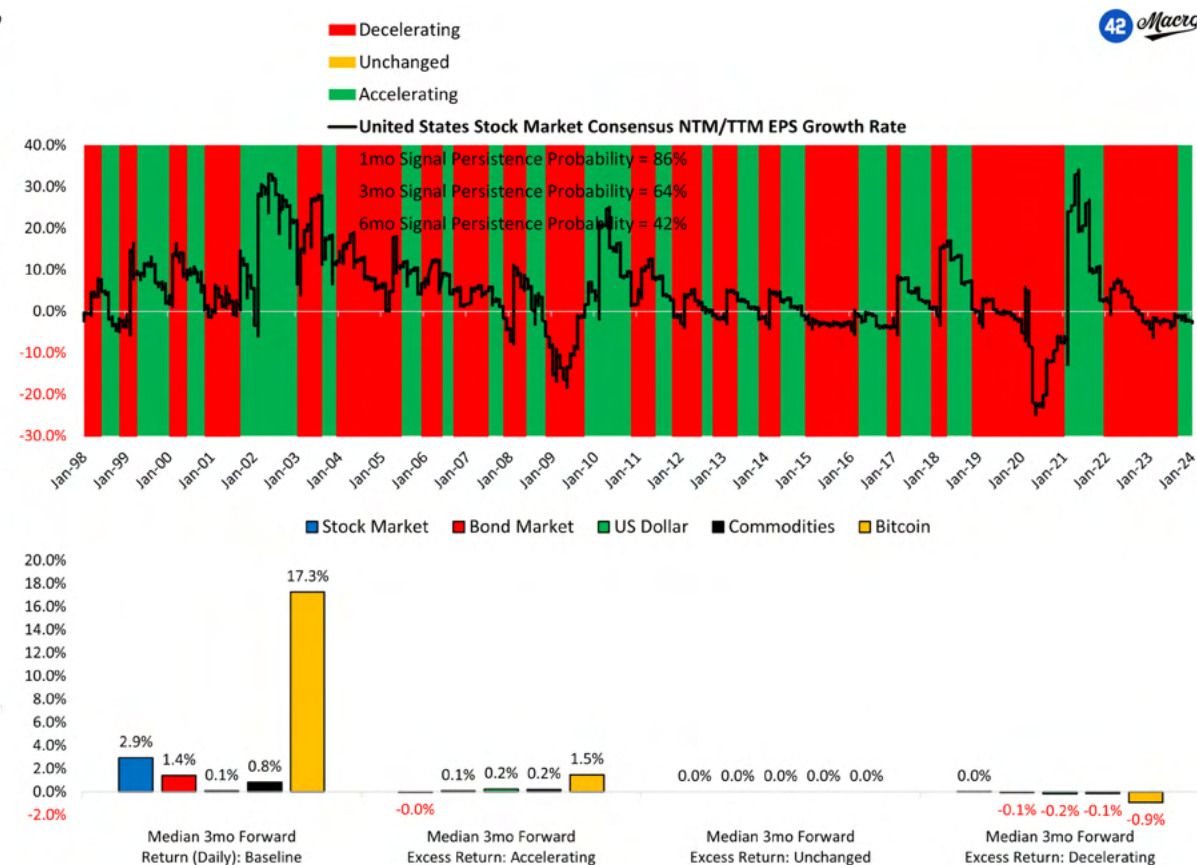


© 42 Macro LLC. Data Source: Bloomberg. The 42 Macro Weather Model works by segmenting each feature into distinct regimes and conducting rolling out-of-sample backtests on indiscrete periods to quantify dispersion across regimes, for each liquid asset class. The excess return dispersion projected by these independent out-of-sample backtests contribute independently to each independent Composite Signal.

Corporate Profits: Consensus NTM/TTM S&P 500 Sales Growth Rate

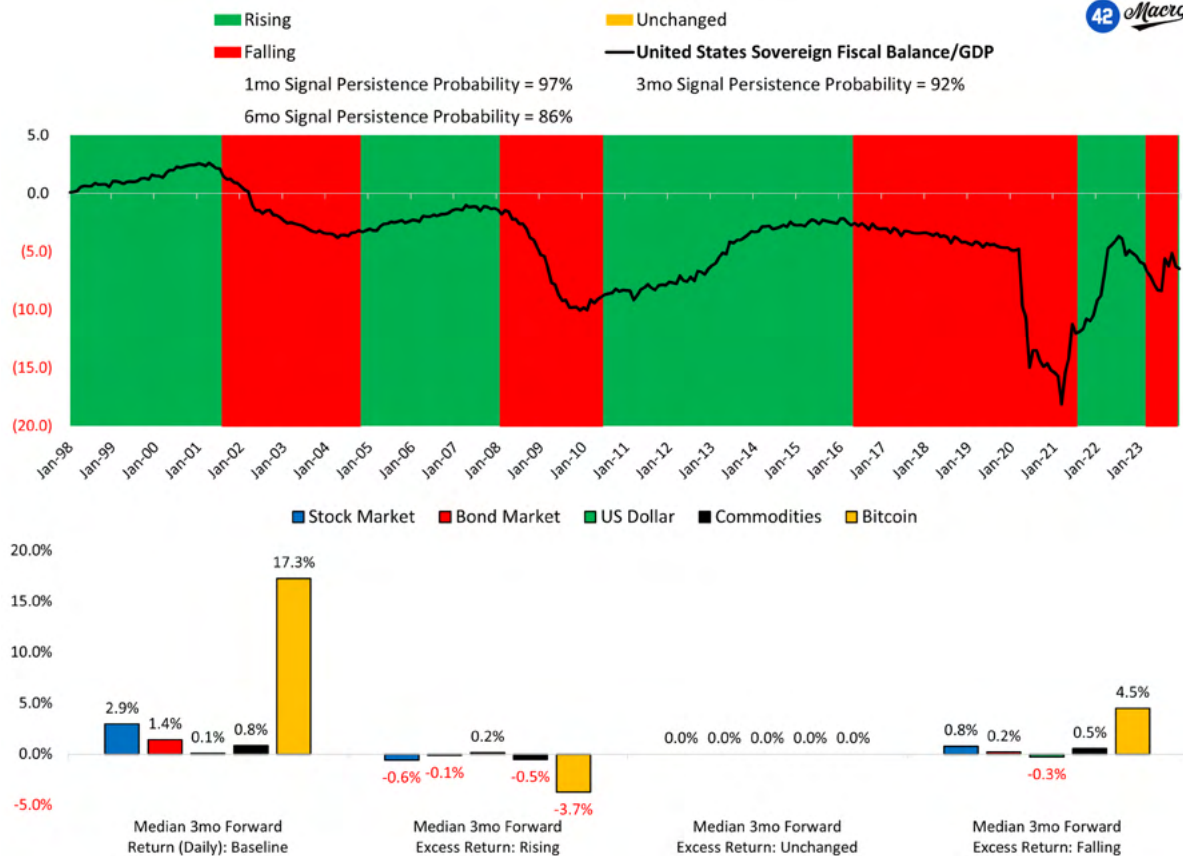


Corporate Profits: Consensus NTM/TTM S&P 500 EPS Growth Rate

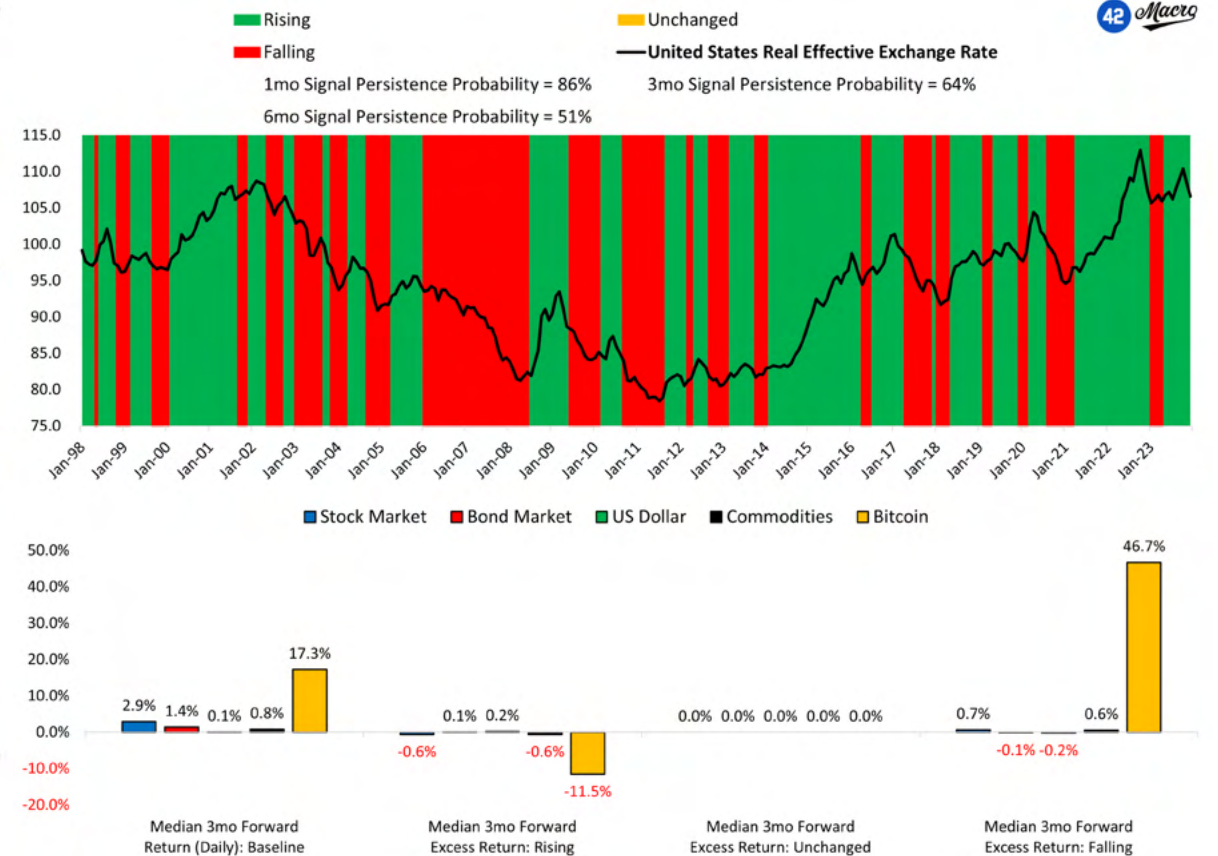


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Fiscal Policy: Sovereign Fiscal Balance/Nominal GDP Ratio

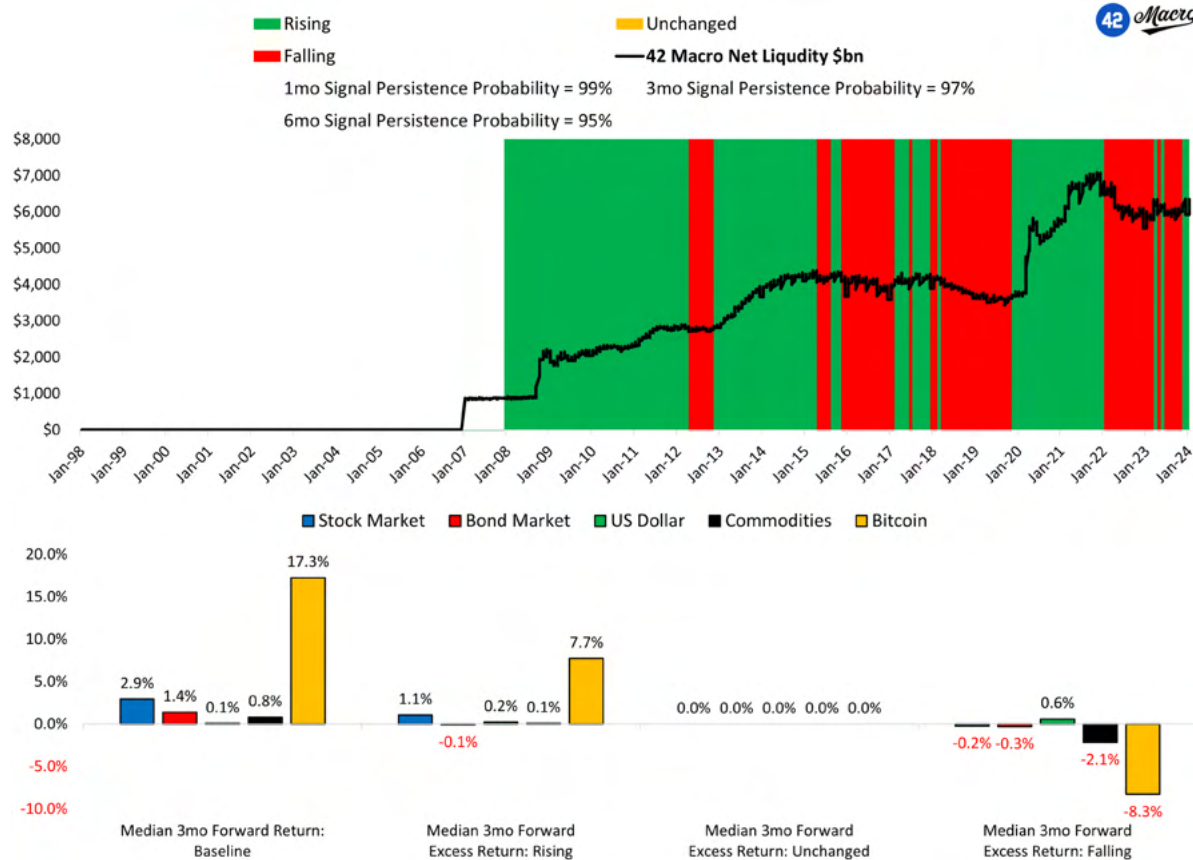


Fiscal Policy: USD Real Effective Exchange Rate

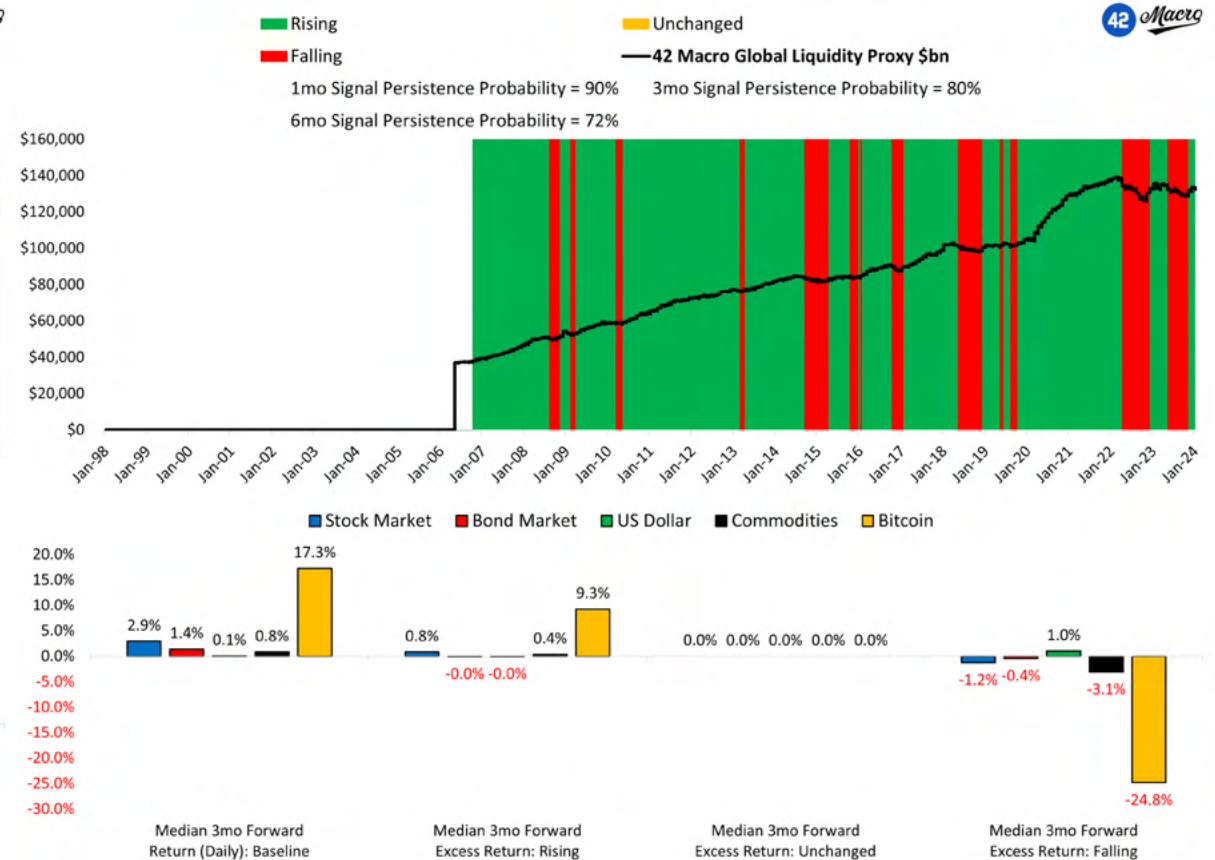


© 42 Macro LLC. Data Source: Bloomberg. The 42 Macro Weather Model works by segmenting each feature into distinct regimes and conducting rolling out-of-sample backtests on indiscrete periods to quantify dispersion across regimes, for each liquid asset class. The excess return dispersion projected by these independent out-of-sample backtests contribute independently to each independent Composite Signal.

Liquidity: 42 Macro Net Liquidity



Liquidity: 42 Macro Global Liquidity Proxy



© 42 Macro LLC. Data Source: Bloomberg. The 42 Macro Weather Model works by segmenting each feature into distinct regimes and conducting rolling out-of-sample backtests on indiscrete periods to quantify dispersion across regimes, for each liquid asset class. The excess return dispersion projected by these independent out-of-sample backtests contribute independently to each independent Composite Signal.

Money: Domestic Broad Money Supply YoY

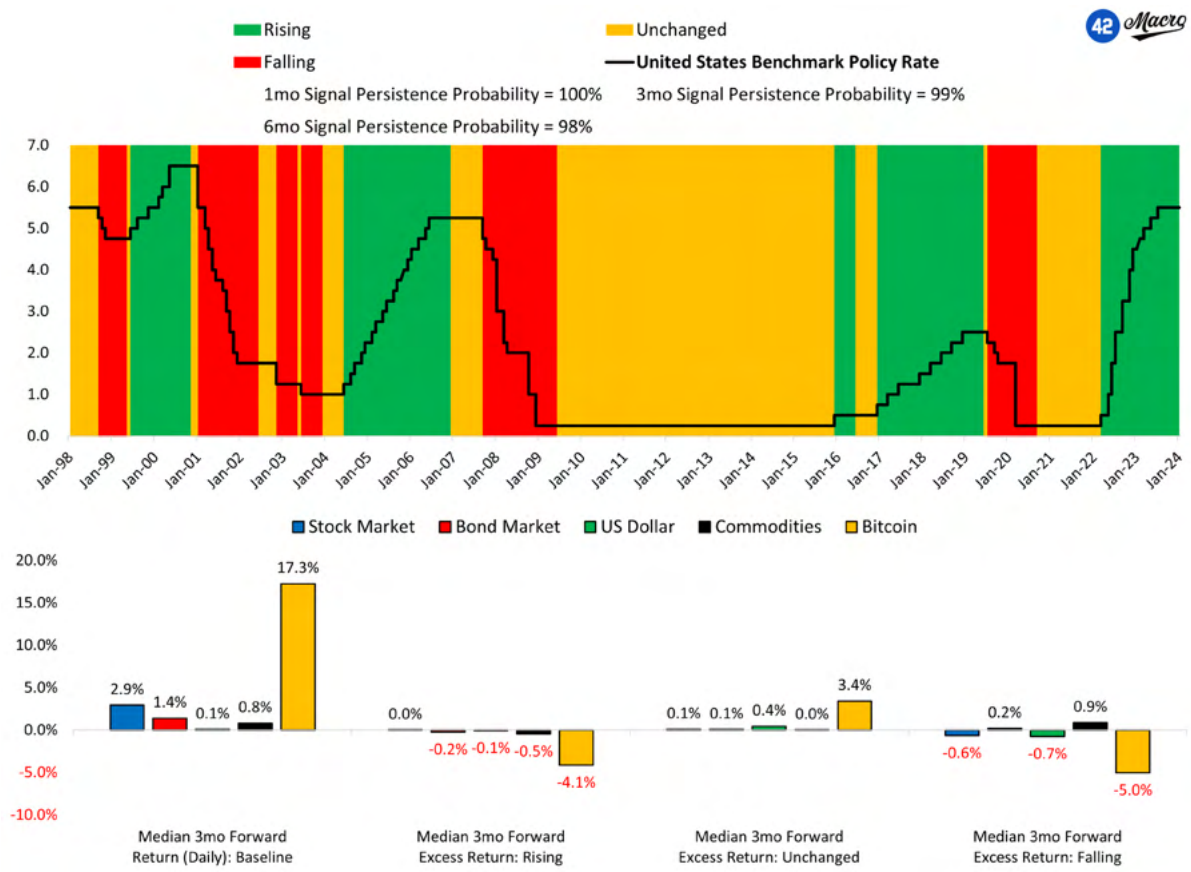


Money: Global PPP-Weighted Broad Money Supply YoY



© 42 Macro LLC. Data Source: Bloomberg. The 42 Macro Weather Model works by segmenting each feature into distinct regimes and conducting rolling out-of-sample backtests on indiscrete periods to quantify dispersion across regimes, for each liquid asset class. The excess return dispersion projected by these independent out-of-sample backtests contribute independently to each independent Composite Signal.

Interest Rates: Benchmark Policy Rate



Interest Rates: 2yr Nominal Yield - Benchmark Policy Rate Spread



© 42 Macro LLC. Data Source: Bloomberg. The 42 Macro Weather Model works by segmenting each feature into distinct regimes and conducting rolling out-of-sample backtests on indiscrete periods to quantify dispersion across regimes, for each liquid asset class. The excess return dispersion projected by these independent out-of-sample backtests contribute independently to each independent Composite Signal.

Fear: Aggregated US Dollar Positioning

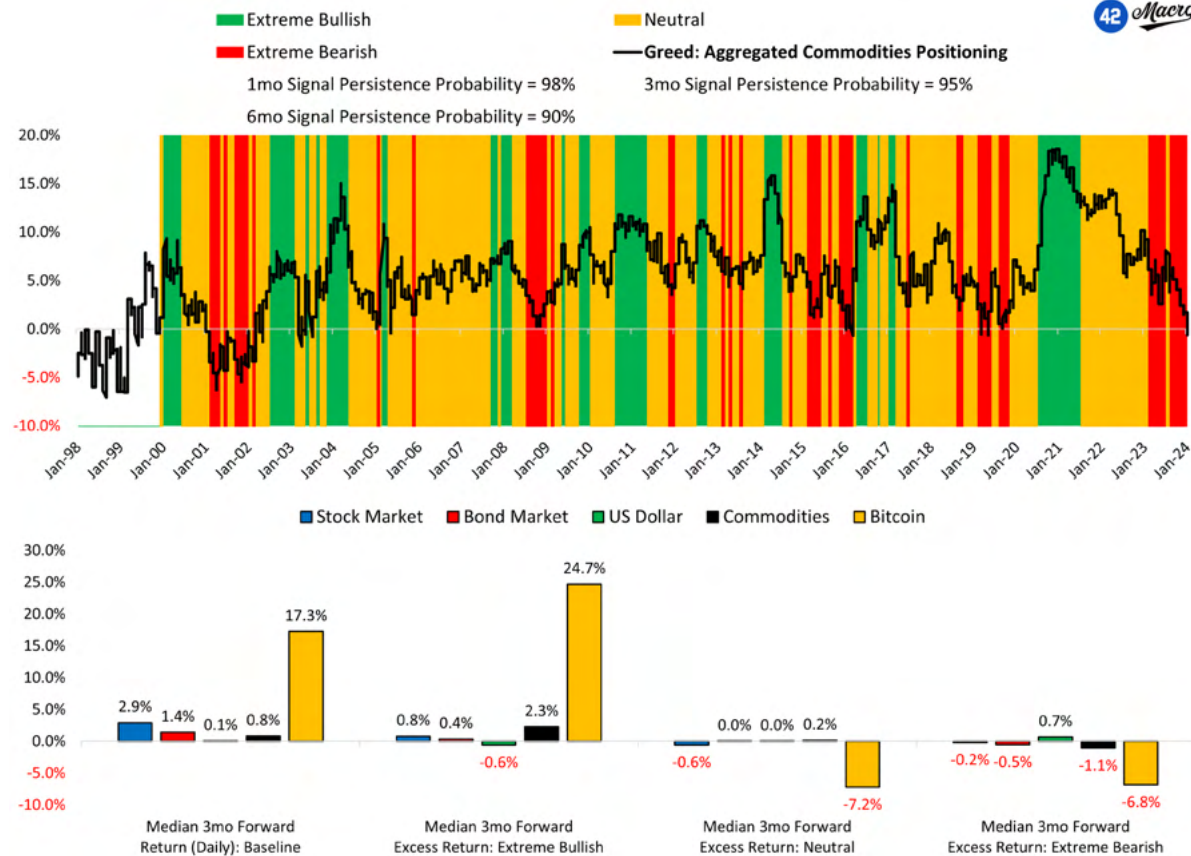


Fear: Aggregated US Treasurys Positioning

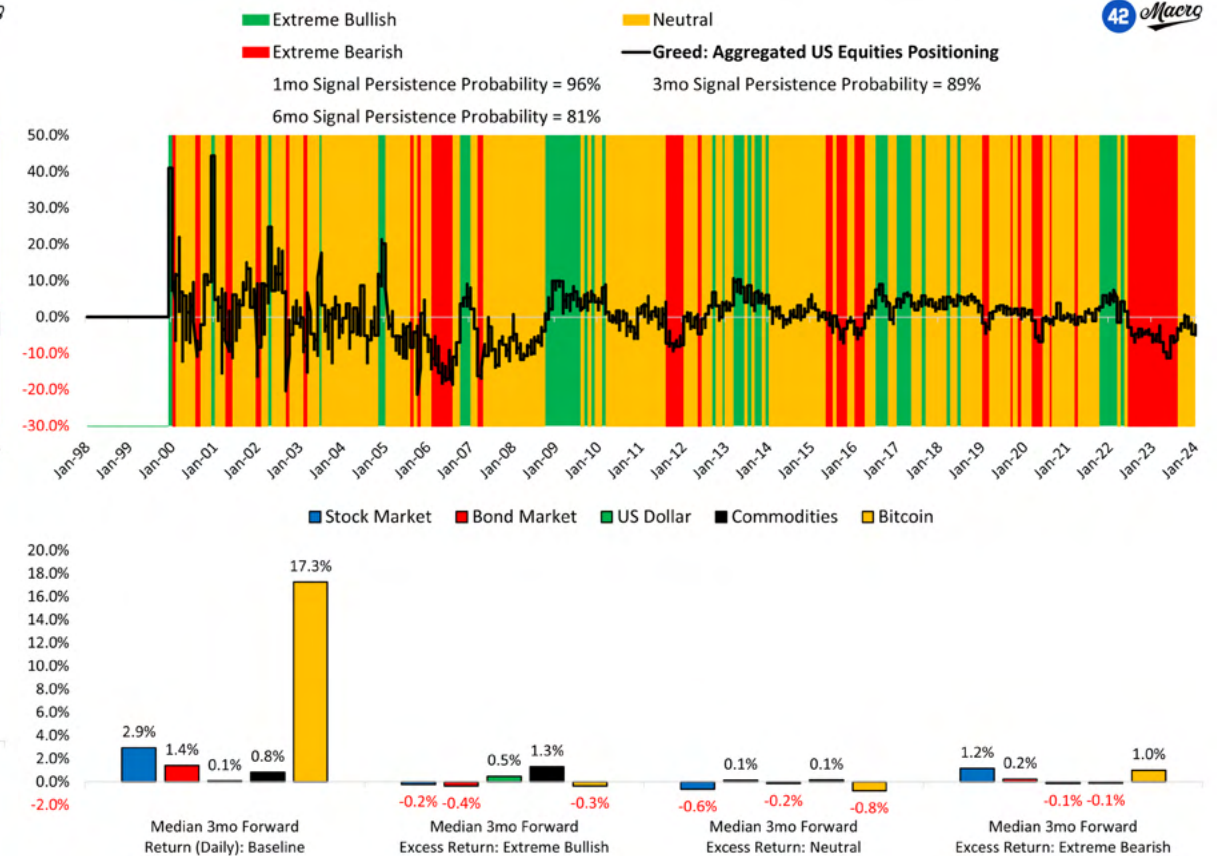


© 42 Macro LLC. Data Source: Bloomberg. The 42 Macro Weather Model works by segmenting each feature into distinct regimes and conducting rolling out-of-sample backtests on indiscrete periods to quantify dispersion across regimes, for each liquid asset class. The excess return dispersion projected by these independent out-of-sample backtests contribute independently to each independent Composite Signal.

Greed: Aggregated Commodities Positioning



Greed: Aggregated US Equities Positioning



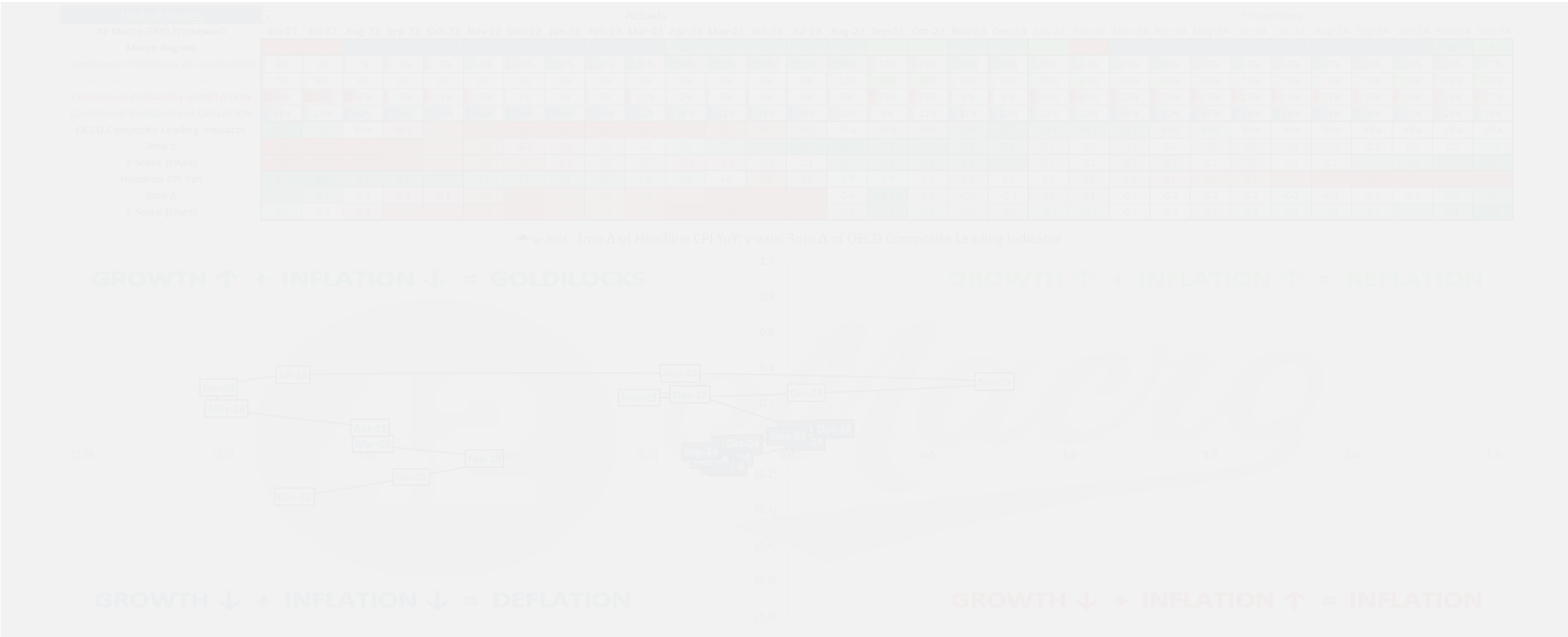
© 42 Macro LLC. Data Source: Bloomberg. The 42 Macro Weather Model works by segmenting each feature into distinct regimes and conducting rolling out-of-sample backtests on indiscrete periods to quantify dispersion across regimes, for each liquid asset class. The excess return dispersion projected by these independent out-of-sample backtests contribute independently to each independent Composite Signal.

Appendix: US & Global GRID Model Projections

Why GRID Works

- **Regime Segmentation:** *“I knew which shifts in the environment caused asset classes to move around, and I knew that those relationships had remained essentially the same for hundreds of years. There were only two big forces to worry about: growth and inflation. Each could be rising or falling, so I saw that by finding four different investment strategies – each one of which would do well in a particular environment (rising growth with rising inflation, rising growth with falling inflation, and so on) – I could construct an asset allocation mix that was balanced to do well over time while being protected against unacceptable losses.”*
–Ray Dalio, Principles pg. 70
- **Bayesian Inference:** *“Subjective confidence in a judgment is not a reasoned evaluation of the probability that this judgment is correct. Confidence is a feeling, which reflects the coherence of the information and the cognitive ease of processing it. It is wise to take admissions of uncertainty serious, but declarations of high confidence mainly tell you that an individual has constructed a coherent story in his mind, not necessarily that the story is true.”*
–Danny Kahneman & Amos Tversky, Thinking, Fast and Slow pg. 212
- **Volatility as a Leading Indicator for Price:** *“You cannot beat the market, says the standard market doctrine. Granted. But you can sidestep its worst punches.”*
–Benoit Mandelbrot, The (Mis)Behavior of Markets pg. 249

US GRID Model



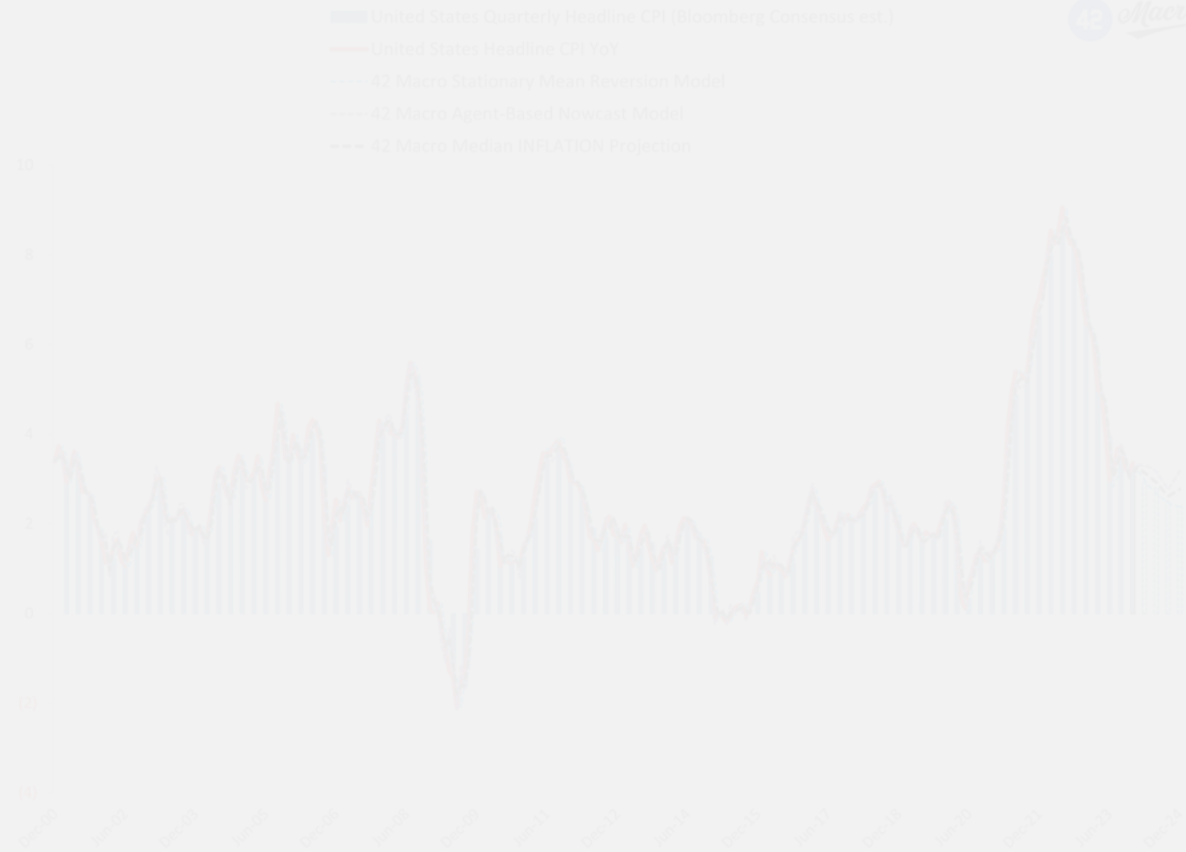
US Growth: Secular View

US Growth: Cyclical View



US Inflation: Secular View

US Inflation: Cyclical View



Global GRID Model Projections

We Use Our **Global Liquidity Monitor** To Nowcast Trends In Key Macro Indicators And Their Likely Influence Upon Geographic Dispersion

42 Macro Global Liquidity Monitor (1/29/24)	GROWTH												INFLATION									POLICY																		SYSTEMATIC TRADE IDEAS		
	Real GDP QoQ SAAR*			Composite PMI			Unemployment			Econ Surprises			Headline CPI YoY			Core CPI YoY*			Inflation Surprises			Liquidity Proxy			Policy Rate			Fiscal Balance*			Current Account			REER*								
	Delta	Level	Trend	Delta	Level	Trend*	Delta	Level	Trend	Delta	Level	Trend	Delta	Level	Trend	Delta	Level	Trend	Delta	Level	Trend	Delta	Level	Trend	Delta	Level	Trend	Delta	Level	Trend	Delta	Level	Trend	Delta	Level	Trend	Stocks	Bonds	FX			
Global	📉	1.7%	(0.0)	📈	51.0	(0.6)	📈	4.8%	(1.3)	📉	5	(0.1)	📉	5.4%	0.8	📉	6.3%	1.8	📉	(14)	(0.7)	📈	\$132.7	1.3	📉	4.14%	2.7	📈	-4.7%	(0.3)	📈	-0.3%	(0.8)	📈	93	(1.3)	📈	📈	n/a			
Australia	📉	0.8%	(0.3)	📈	48.1	(0.7)	📈	3.9%	(1.5)	📈	11	(0.3)	📉	4.3%	0.4	📉	5.2%	1.7	📈	(11)	(0.1)	📈	\$2.3	1.4	📈	4.32%	2.4	📈	1.6%	1.1	📈	1.2%	0.9	📈	110	0.6	📈	📈	📈			
Brazil	📉	0.4%	(0.0)	📈	50.0	(0.6)	📉	7.5%	(1.3)	-	-	-	📉	4.6%	(0.5)	📉	5.4%	(0.1)	-	-	-	📈	\$2.4	0.1	📉	11.75%	0.6	📉	-7.8%	(0.2)	📈	-1.9%	0.9	📈	119	(0.2)	📈	📈	n/a			
Canada	📉	-1.1%	(0.3)	📈	56.3	0.0	📈	5.8%	(0.6)	📉	(4)	(0.6)	📉	3.4%	0.5	📈	3.4%	0.9	📈	(11)	(0.1)	📈	\$2.2	1.3	➡️	5.00%	2.6	📈	-1.2%	0.2	📈	-0.9%	1.1	📉	101	(0.7)	n/a	n/a	n/a			
China	📉	4.0%	(0.2)	📉	50.3	(0.6)	📈	5.1%	(0.5)	📉	(14)	(0.2)	📉	-0.3%	(1.9)	📉	0.6%	(1.4)	📈	(58)	(1.8)	📈	\$50.3	1.5	➡️	3.45%	(1.3)	📈	-4.5%	(0.5)	📉	1.8%	0.2	📉	92	(1.9)	n/a	📈	n/a			
Eurozone	📉	-0.4%	(0.2)	📈	47.9	(1.0)	📉	6.4%	(1.3)	📈	(10)	(0.2)	📉	2.9%	0.3	📉	3.4%	1.2	📉	(18)	(0.6)	📈	\$24.0	0.7	➡️	4.00%	3.2	📈	-3.5%	(0.4)	📈	1.3%	(1.0)	📉	101	0.7	n/a	📈	n/a			
India	📉	7.6%	0.3	📈	61.0	1.1	📈	8.0%	0.2	-	-	-	📈	5.7%	0.3	📉	3.9%	(1.3)	-	-	-	📈	\$3.2	1.4	➡️	6.50%	0.6	📈	-6.4%	(1.0)	📈	-1.0%	0.2	📉	100	0.4	📈	n/a	n/a			
Japan	📉	-2.9%	(0.6)	📈	51.1	0.3	📉	2.5%	(0.9)	📈	27	0.6	📉	2.6%	1.1	📉	2.3%	1.0	📉	(16)	(1.1)	📈	\$14.6	0.3	➡️	-0.10%	(0.5)	📈	-5.2%	(0.1)	📈	2.9%	0.0	📈	74	(2.1)	📈	📈	n/a			
Switzerland	📈	1.2%	(0.1)	📉	43.0	(1.6)	📈	2.1%	(1.4)	📉	(64)	(1.2)	➡️	1.7%	1.0	📈	1.5%	1.4	📉	(46)	(1.5)	📈	\$2.7	0.2	➡️	-0.75%	(0.6)	📈	1.4%	1.0	📉	8.3%	0.8	📈	103	1.9	n/a	n/a	n/a			
United Kingdom	📉	-0.4%	(0.1)	📈	52.5	(0.2)	📈	4.3%	(0.4)	📉	(32)	(1.0)	📉	4.0%	0.4	📉	5.1%	1.4	📉	24	0.2	📈	\$6.0	0.9	➡️	5.25%	3.1	📉	-5.6%	(0.1)	📉	-2.0%	1.2	📈	108	0.7	n/a	📈	n/a			
United States	📉	3.3%	0.1	📉	50.3	(1.7)	📉	3.7%	(0.7)	📉	27	0.3	📉	3.4%	0.3	📉	2.9%	0.4	📉	(6)	(0.2)	📈	\$28.7	1.2	➡️	5.50%	2.5	📉	-6.5%	(0.2)	📈	-3.1%	(1.0)	📉	107	1.3	n/a	📈	n/a			

Intellectual property of 42 Macro LLC. Data Source: Bloomberg. Delta = trailing 3mo Momentum. Trend = trailing 10yr Z-Score of latest value, except for the Composite PMI which is trailing 3yrs. Geographies in alphabetical order. The @42Macro Liquidity Proxy is the nominal \$tn sum of the Central Bank Balance Sheet, Broad Money Supply, and FX Reserves ex-Gold. India Real GDP YoY, not QoQ annualized. Citi Economic and Inflation Surprise indices. US Core PCE Deflator. Sovereign Fiscal Balance and Current Account Balance quoted as shares of Nominal GDP. REER = Real Effective Exchange Rate. Sovereign Fiscal Balance figures for the World, China, and Japan are annual figures. Global REER = inverse USD REER. Systematic Trade Ideas: Long/Short Stocks = rising/falling PMI + positive/negative econ surprises + rising/falling liquidity; Long/Short Bonds = decelerating/accelerating H-CPI + decelerating/accelerating C-CPI + rising/falling liquidity; and Long/Short FX = rising/falling policy rate + rising/falling fiscal balance + rising/falling current account balance.

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Highlighted systematic trade ideas include changes from the prior publication.

@42Macro Global Liquidity Proxy = Global Central Bank Balance Sheet

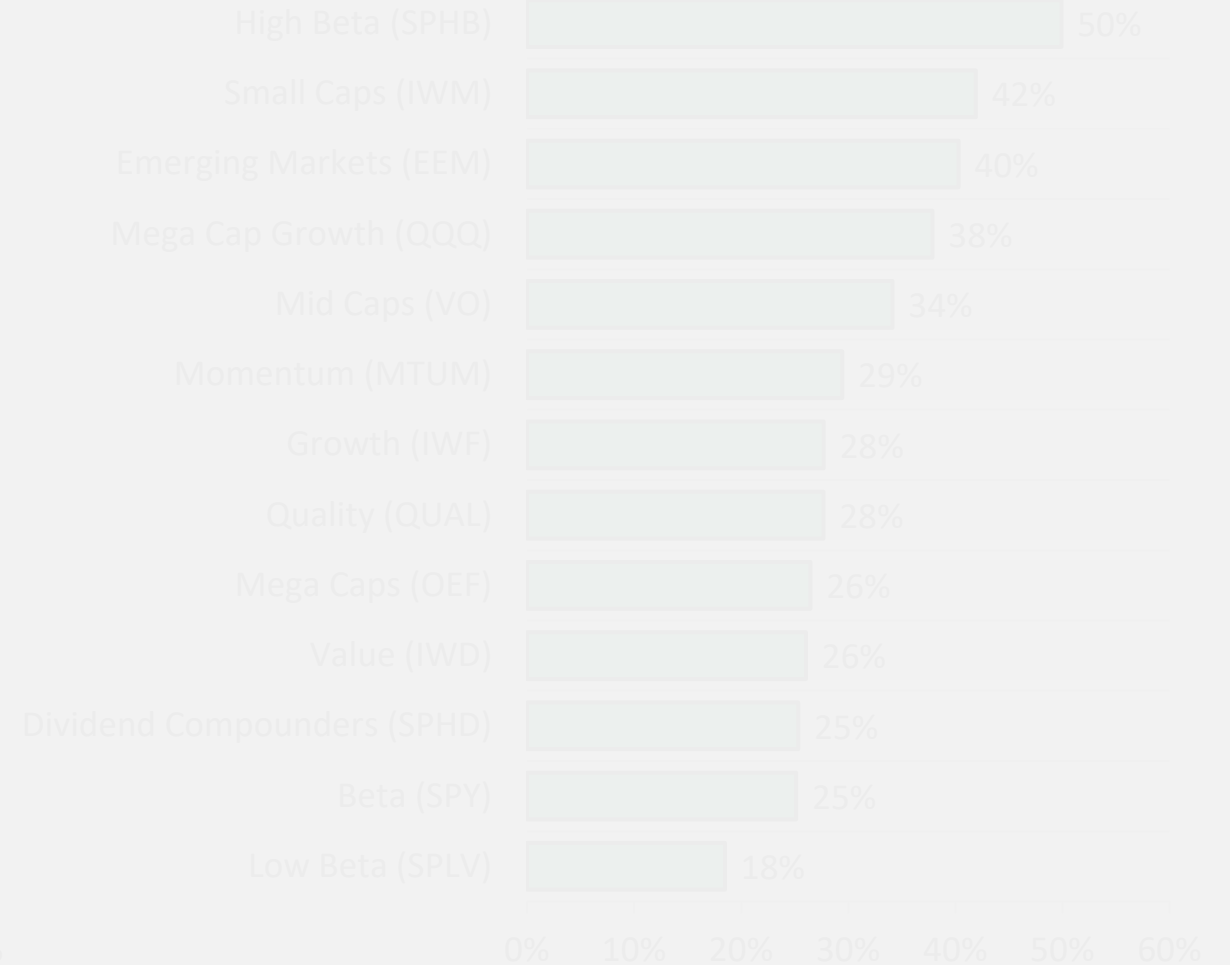
+ Global Broad Money Supply + Global FX Reserves ex-Gold.

GRID Asset Market Backtests

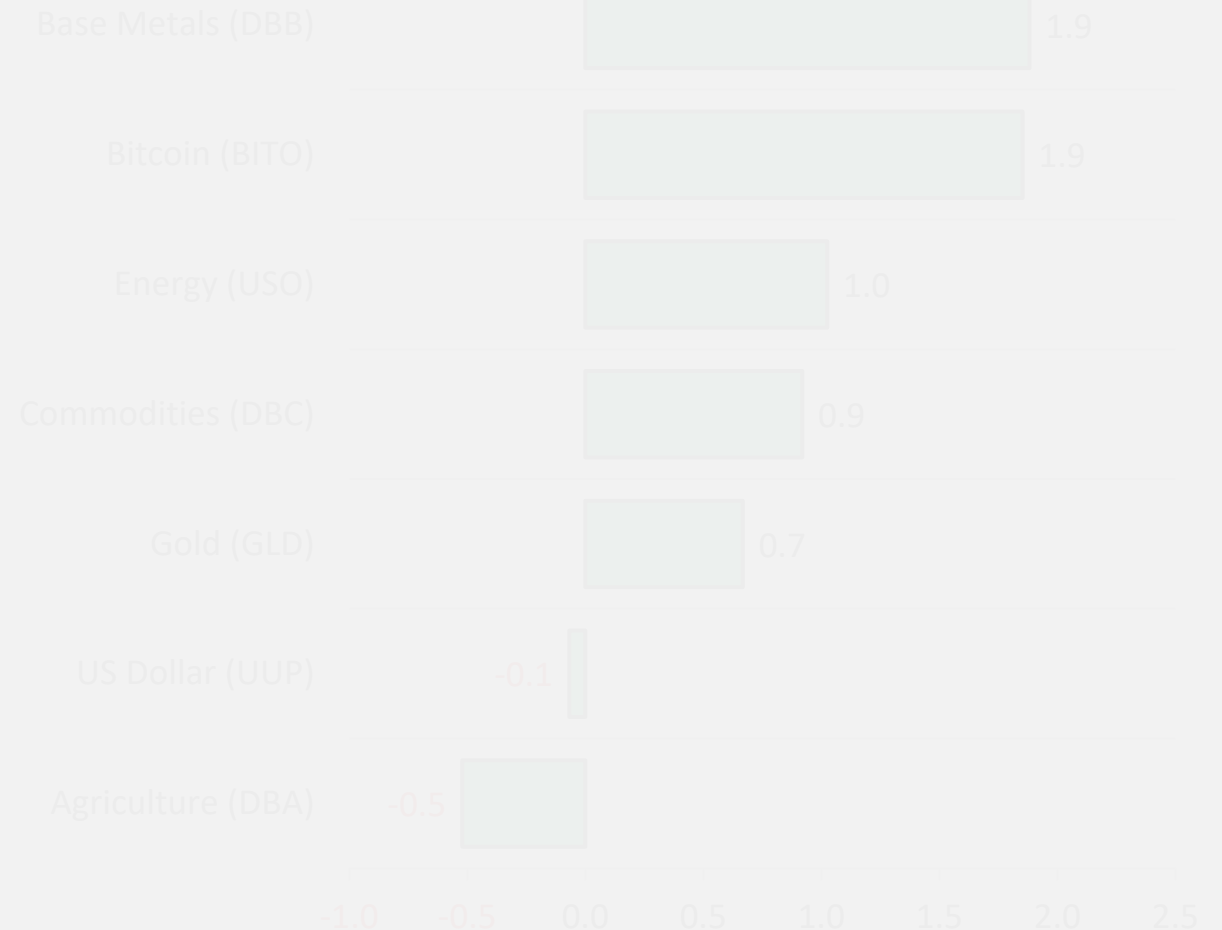
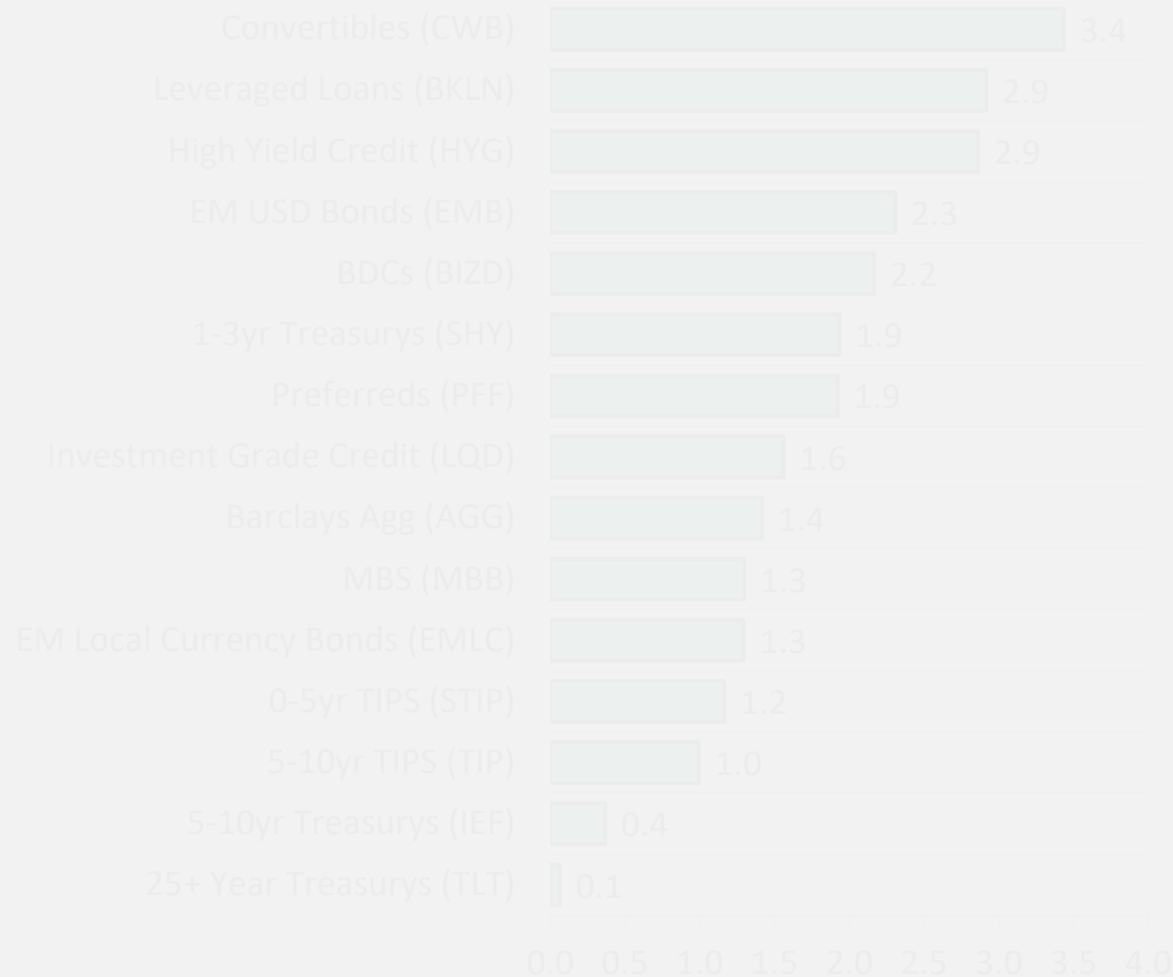
	Annualized Expected Return				Percent Positive Ratio				Volatility				Covariance w/ US Equity Beta				Annualized Expected Return Rankings				
Factor (ETF)	SPY (Index)	US 10Y	US 30Y	US 50Y	SPY (Index)	US 10Y	US 30Y	US 50Y	SPY (Index)	US 10Y	US 30Y	US 50Y	SPY (Index)	US 10Y	US 30Y	US 50Y	Factor (ETF)	SPY (Index)	US 10Y	US 30Y	US 50Y
Factor 1 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 2 (ETF)	10%	10%	10%	10%
Factor 2 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 3 (ETF)	10%	10%	10%	10%
Factor 3 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 4 (ETF)	10%	10%	10%	10%
Factor 4 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 5 (ETF)	10%	10%	10%	10%
Factor 5 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 6 (ETF)	10%	10%	10%	10%
Factor 6 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 7 (ETF)	10%	10%	10%	10%
Factor 7 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 8 (ETF)	10%	10%	10%	10%
Factor 8 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 9 (ETF)	10%	10%	10%	10%
Factor 9 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 10 (ETF)	10%	10%	10%	10%
Factor 10 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 11 (ETF)	10%	10%	10%	10%
Factor 11 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 12 (ETF)	10%	10%	10%	10%
Factor 12 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 13 (ETF)	10%	10%	10%	10%
Factor 13 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 14 (ETF)	10%	10%	10%	10%
Factor 14 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 15 (ETF)	10%	10%	10%	10%
Factor 15 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 16 (ETF)	10%	10%	10%	10%
Factor 16 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 17 (ETF)	10%	10%	10%	10%
Factor 17 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 18 (ETF)	10%	10%	10%	10%
Factor 18 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 19 (ETF)	10%	10%	10%	10%
Factor 19 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 20 (ETF)	10%	10%	10%	10%
Factor 20 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 21 (ETF)	10%	10%	10%	10%
Factor 21 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 22 (ETF)	10%	10%	10%	10%
Factor 22 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 23 (ETF)	10%	10%	10%	10%
Factor 23 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 24 (ETF)	10%	10%	10%	10%
Factor 24 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 25 (ETF)	10%	10%	10%	10%
Factor 25 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 26 (ETF)	10%	10%	10%	10%
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Factor 34 (ETF)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	Factor 35 (ETF)	10%	10%	10%	10%
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GOLDILOCKS: Equity Sector (Left) And Equity Factor (Right)

Annualized Expected Return Rankings



GOLDILOCKS: Fixed Income (Left) And Macro (Right) Expected Sharpe Ratio Rankings

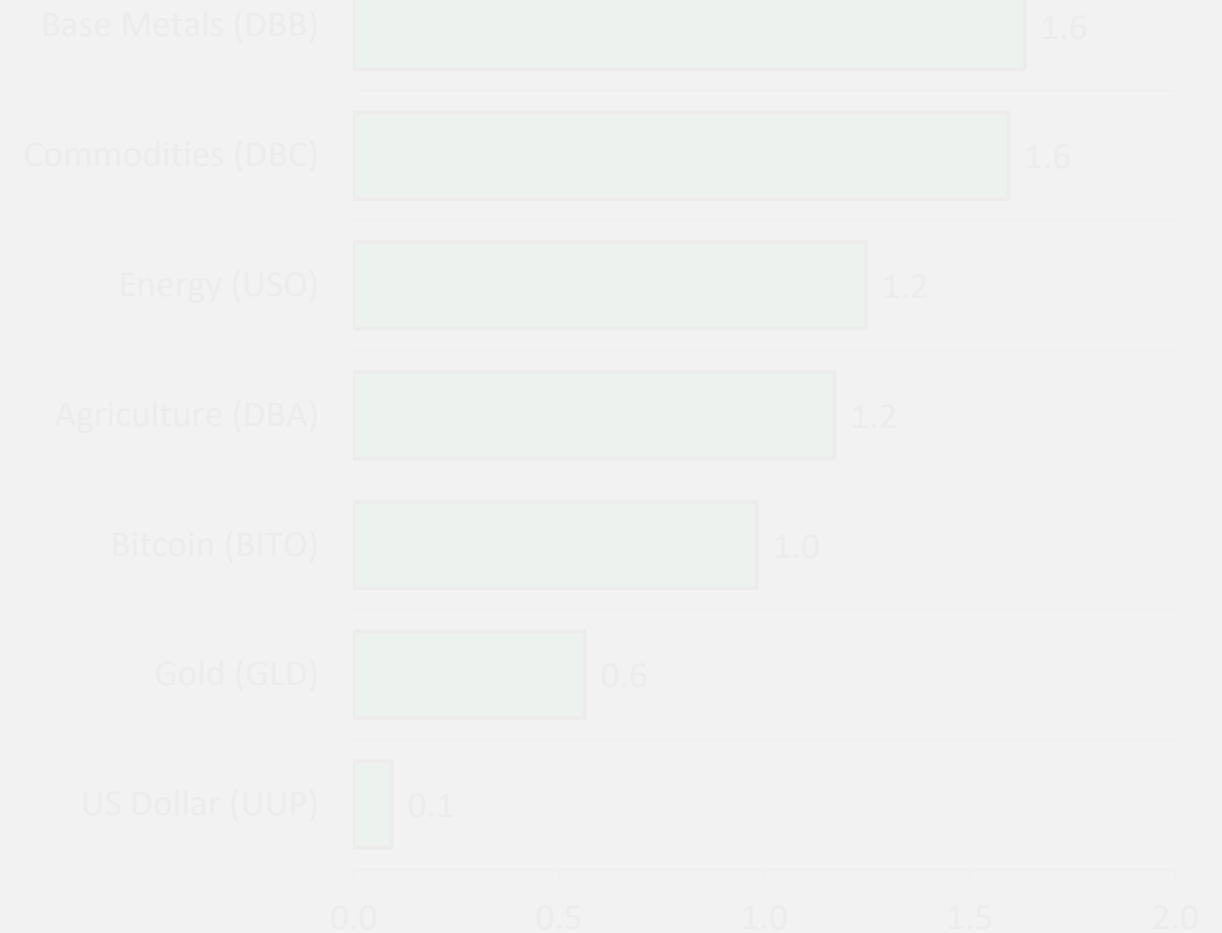


REFLATION: Equity Sector (Left) And Equity Factor (Right)

Annualized Expected Return Rankings

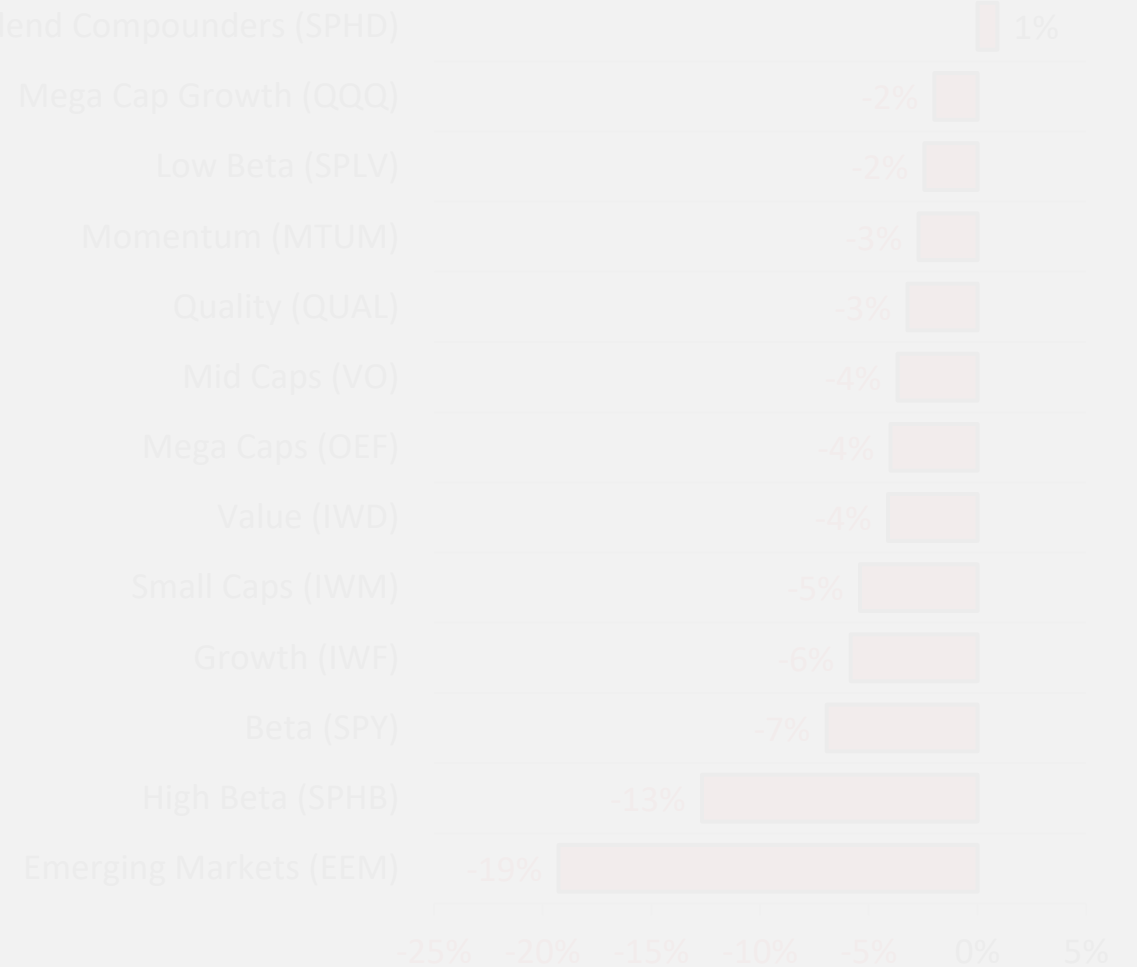
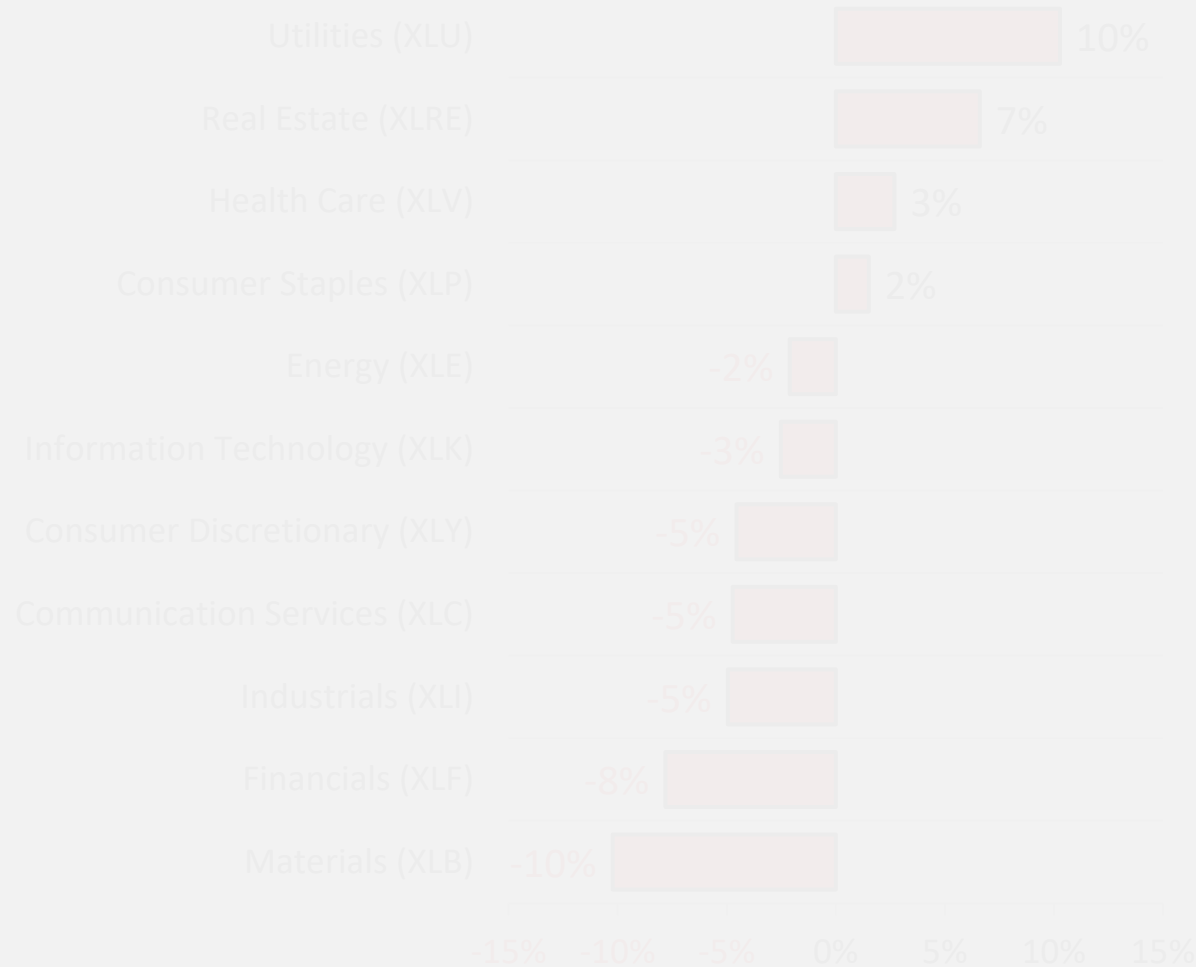


REFLATION: Fixed Income (Left) And Macro (Right) Expected Sharpe Ratio Rankings



INFLATION: Equity Sector (Left) And Equity Factor (Right)

Annualized Expected Return Rankings

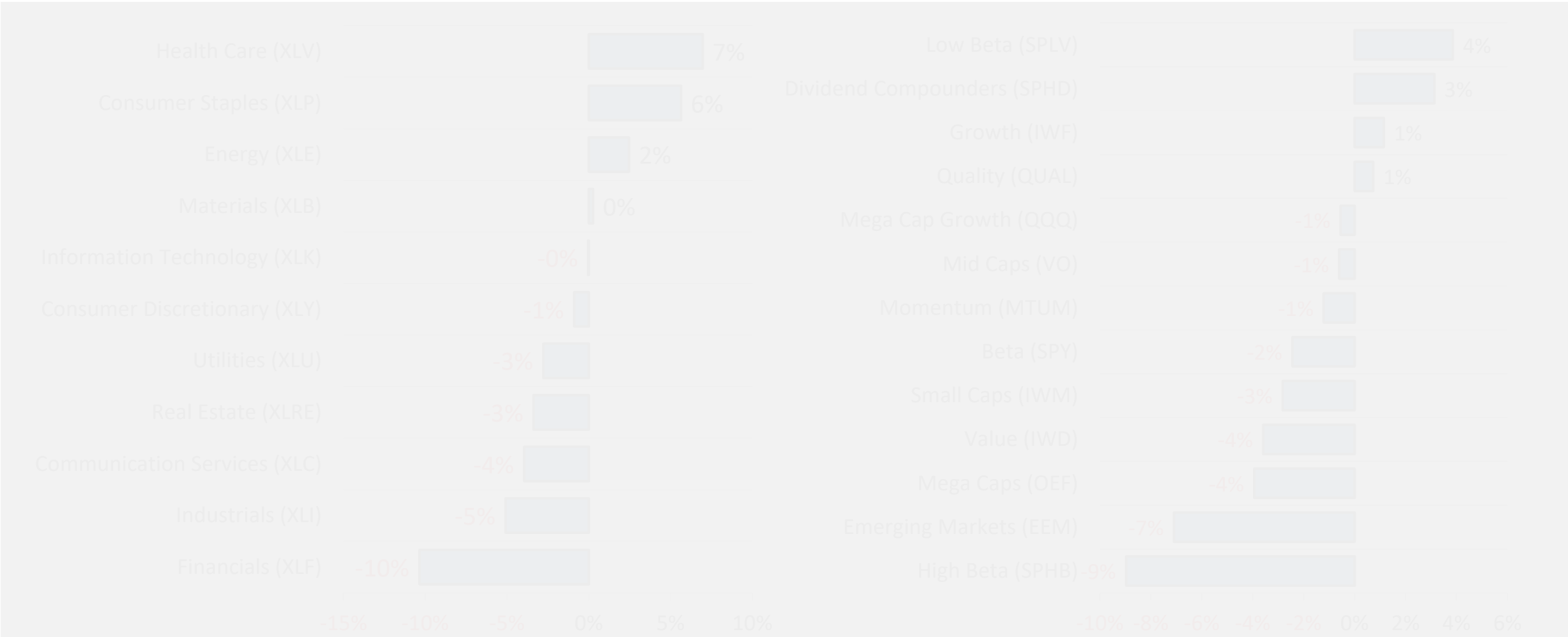


INFLATION: Fixed Income (Left) And Macro (Right) Expected Sharpe Ratio Rankings

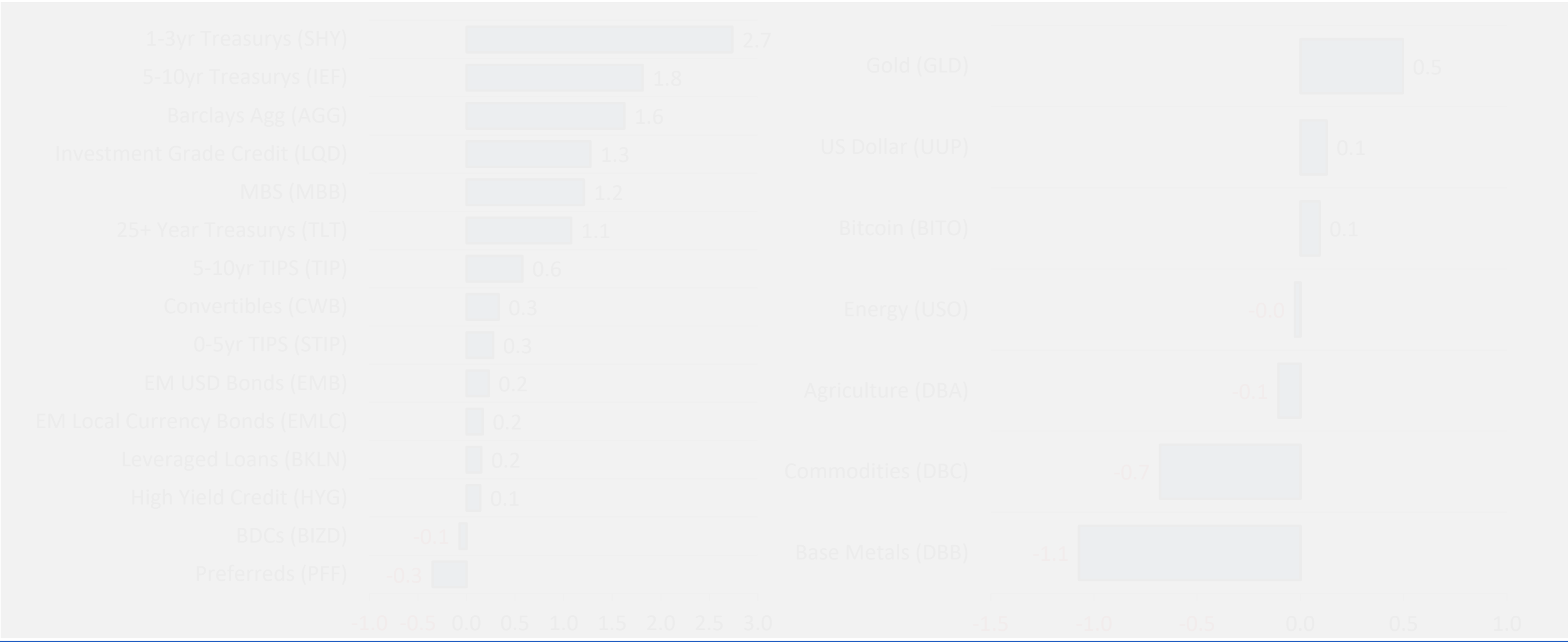


DEFLATION: Equity Sector (Left) And Equity Factor (Right)

Annualized Expected Return Rankings

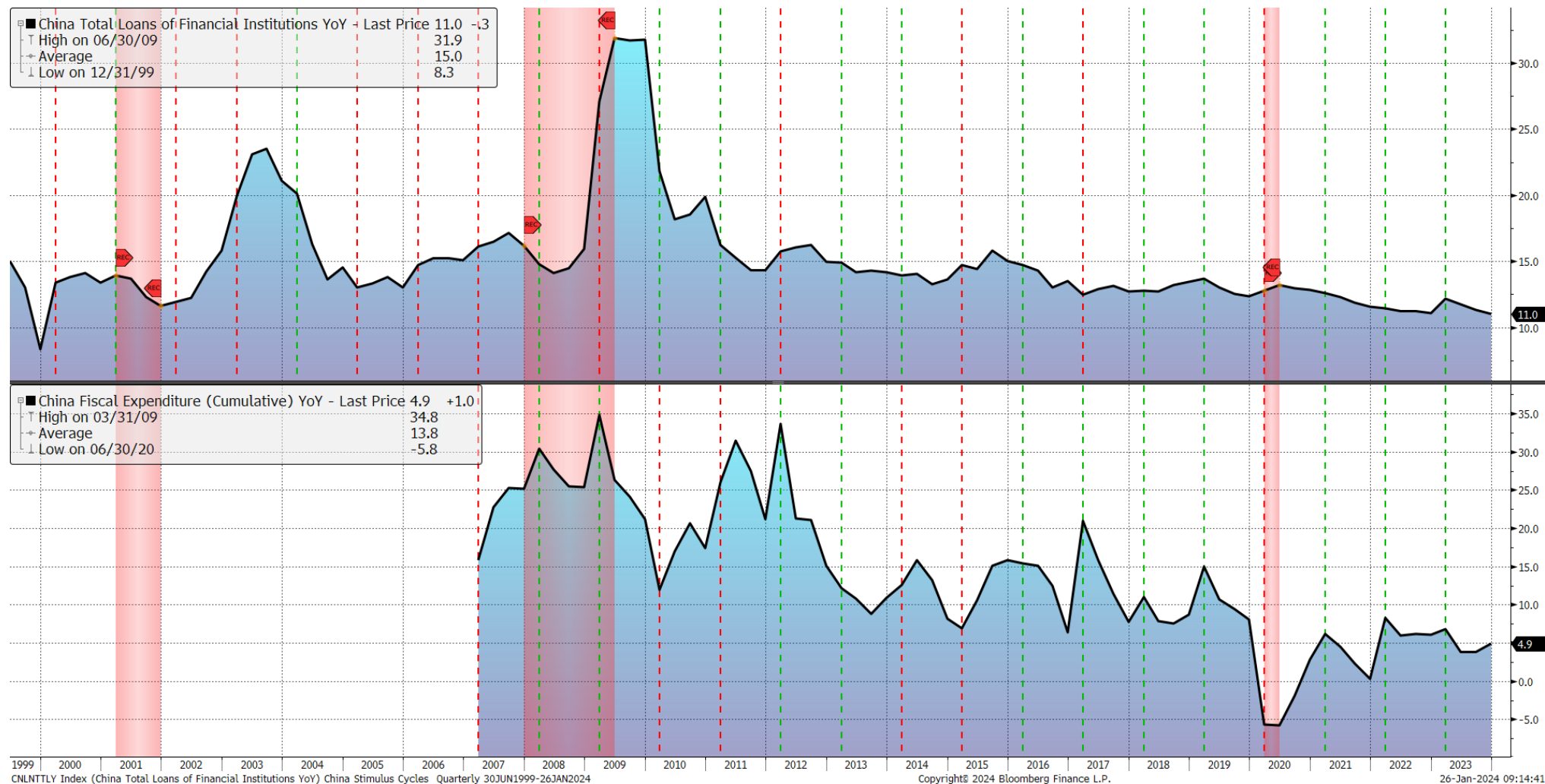


DEFLATION: Fixed Income (Left) And Macro (Right) Expected Sharpe Ratio Rankings



Appendix: Is China Investable?

Beijing Has Confirmed Our Expectation For Front-Loaded Policy Support This Year

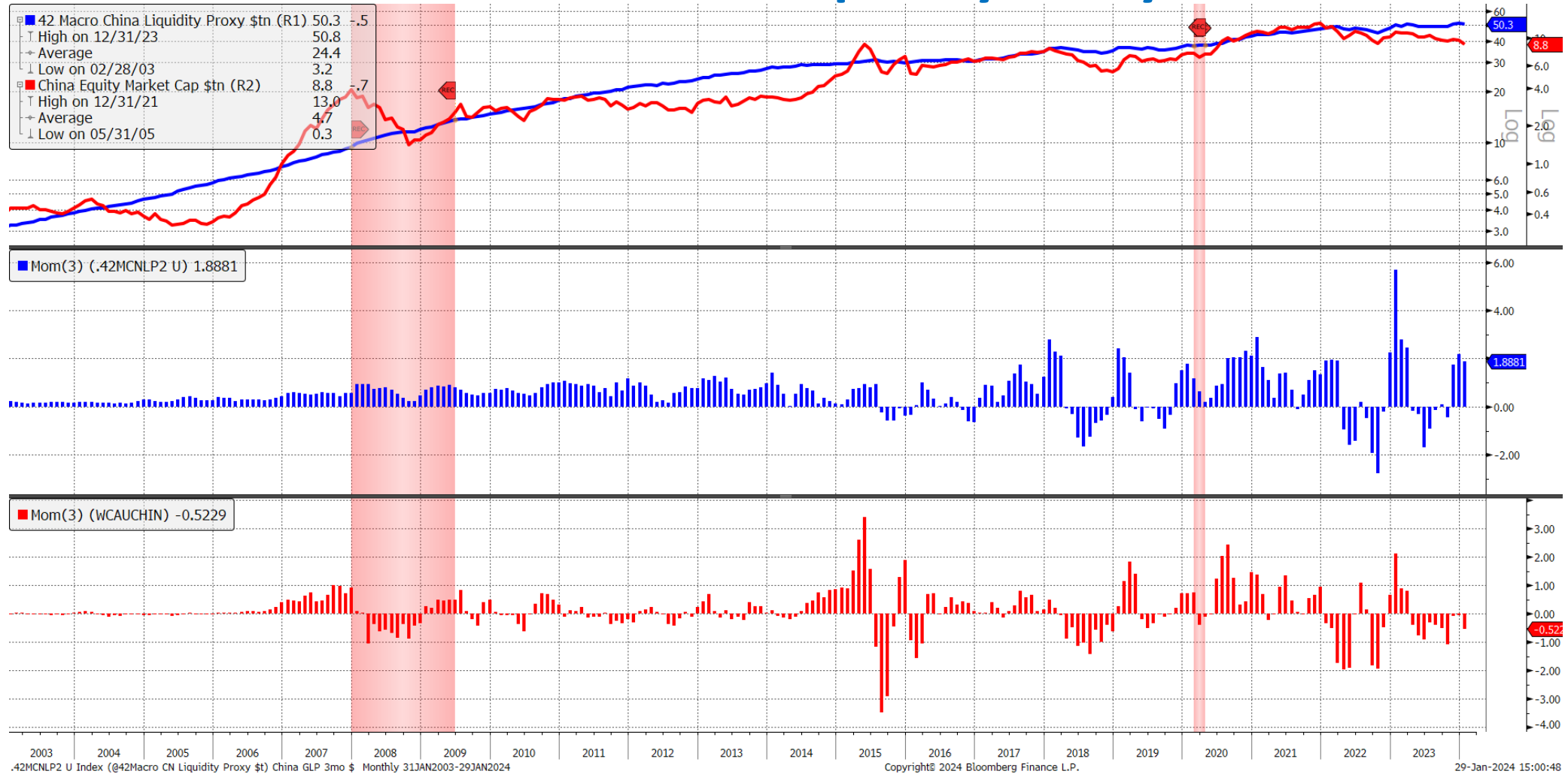


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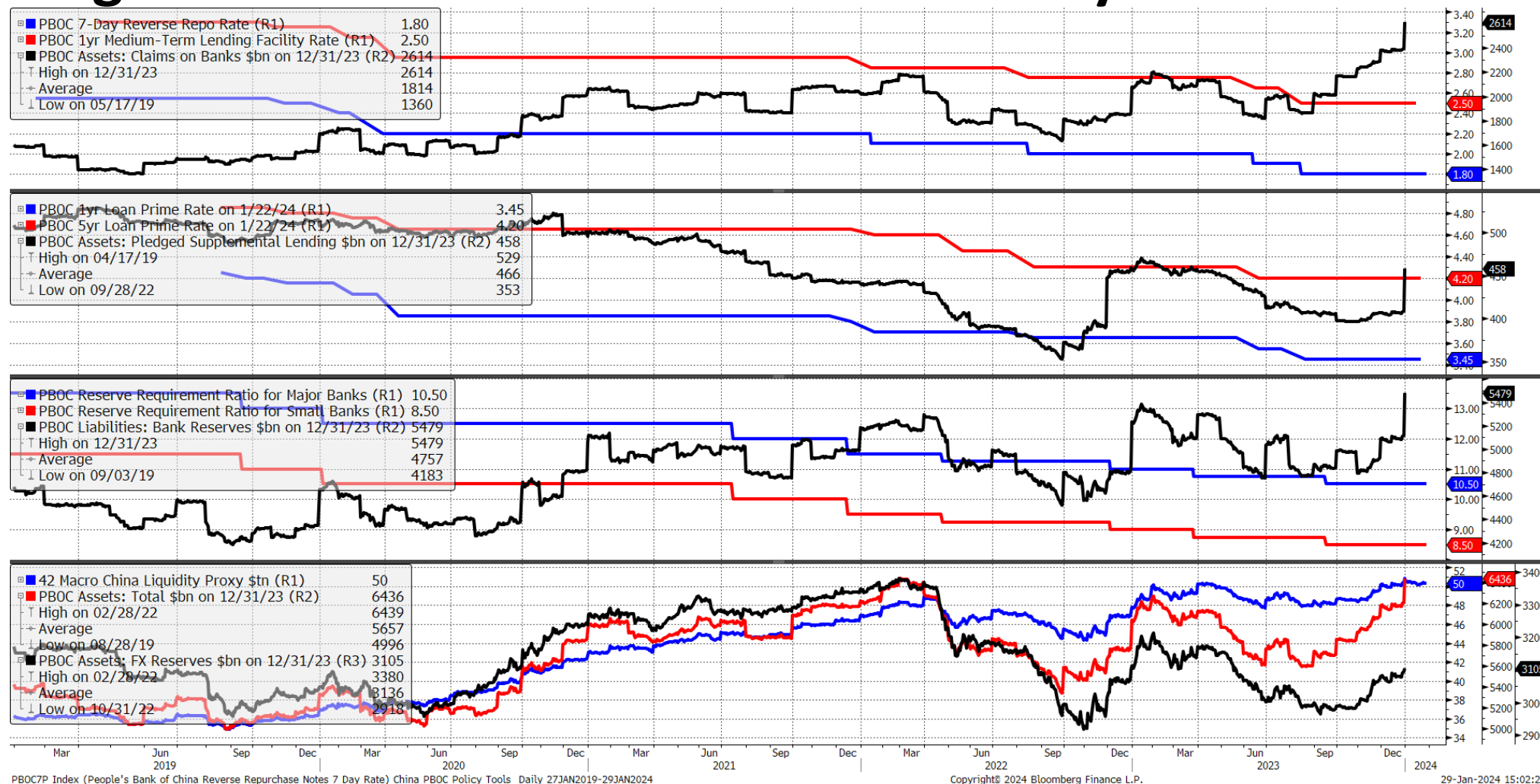
Green dotted line = indicator peaks in Q1 on a calendar basis.

Red dotted line = indicator peaks in Q2, Q3, or Q4 on a calendar basis.

China's Liquidity Impulse Has Been Appreciably Positive For Three Months Per The 42 Macro China Liquidity Proxy



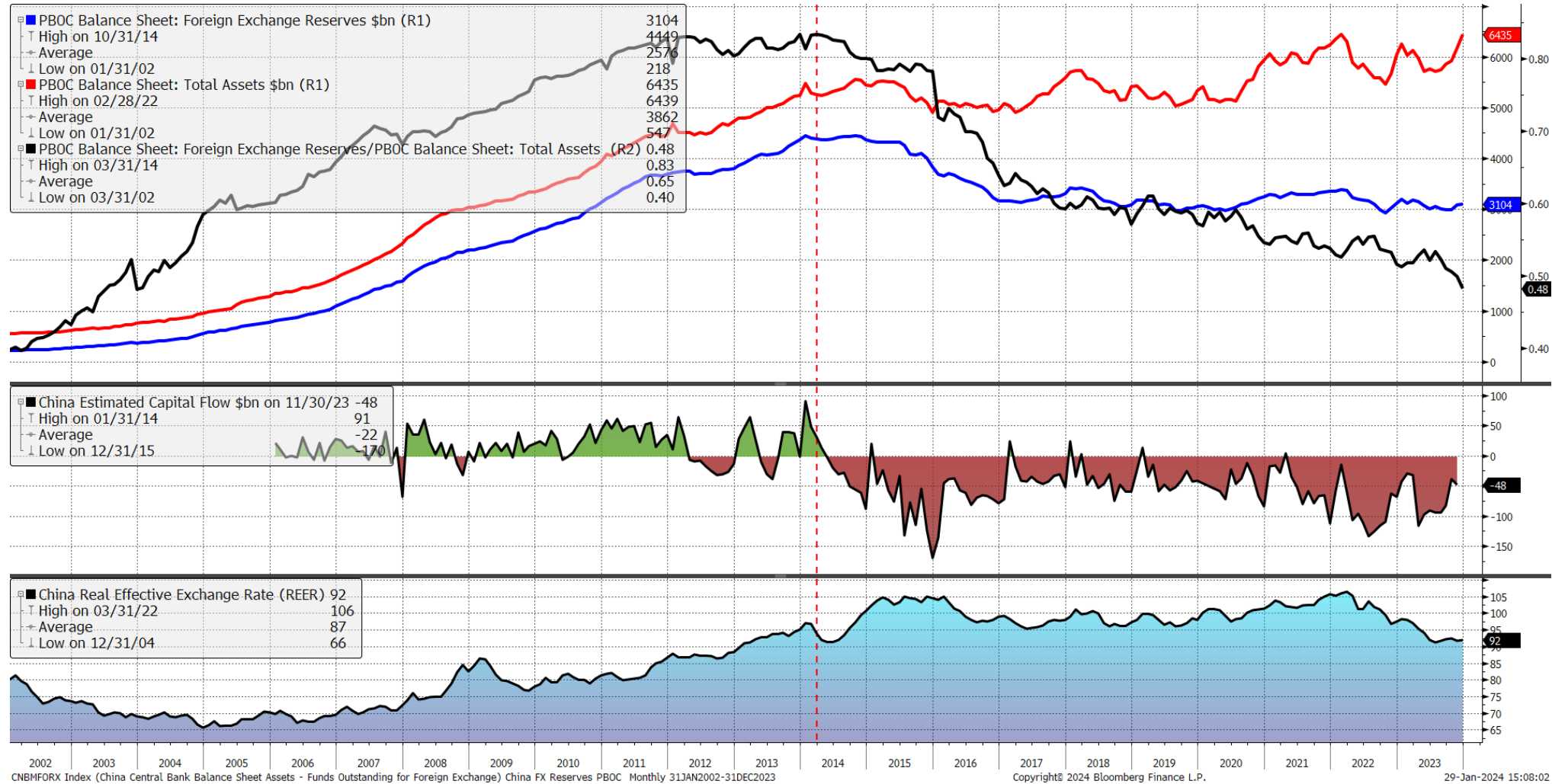
The PBOC Continues To Flex Its Balance Sheet To Push Both Broad And Targeted Stimulus Into The Real Economy



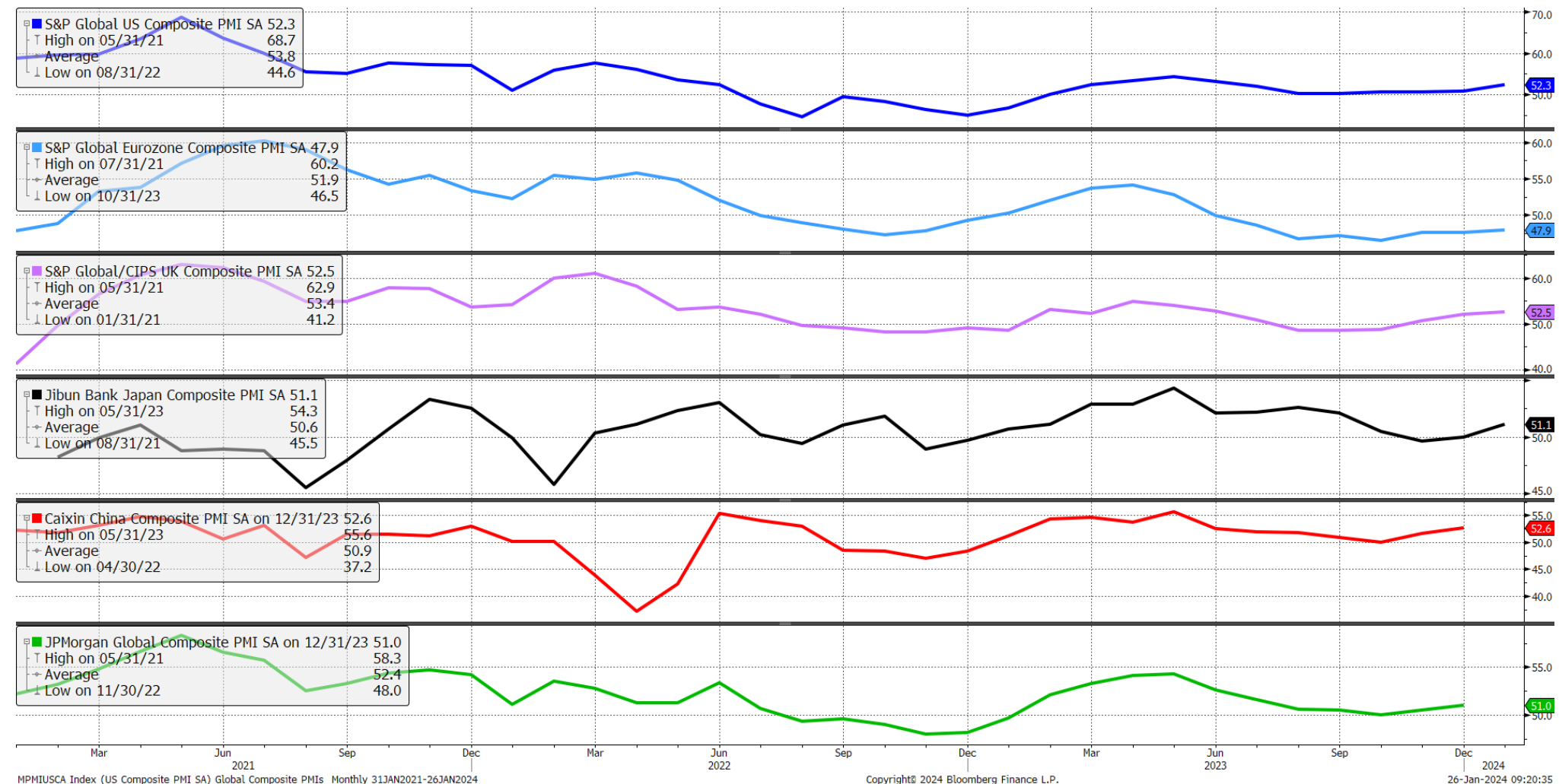
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42 Macro China Liquidity Proxy = PBOC Balance Sheet
+ China Broad Money Supply + China FX Reserves ex-Gold.

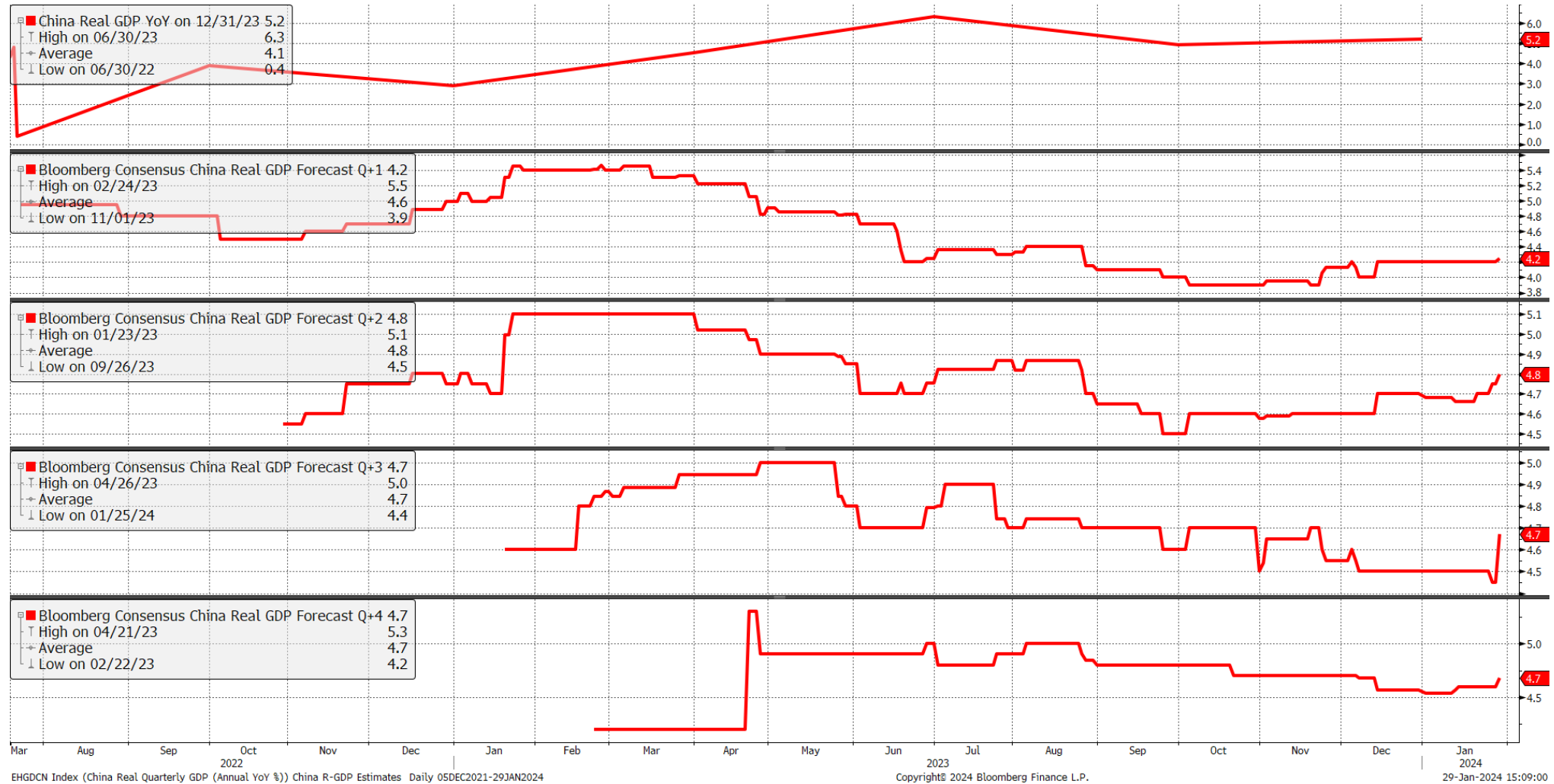
Accelerated Monetary Easing Signals The PBOC Is More Willing To Allow Renminbi Depreciation Amid Outright CPI, PPI, And HPI Deflation



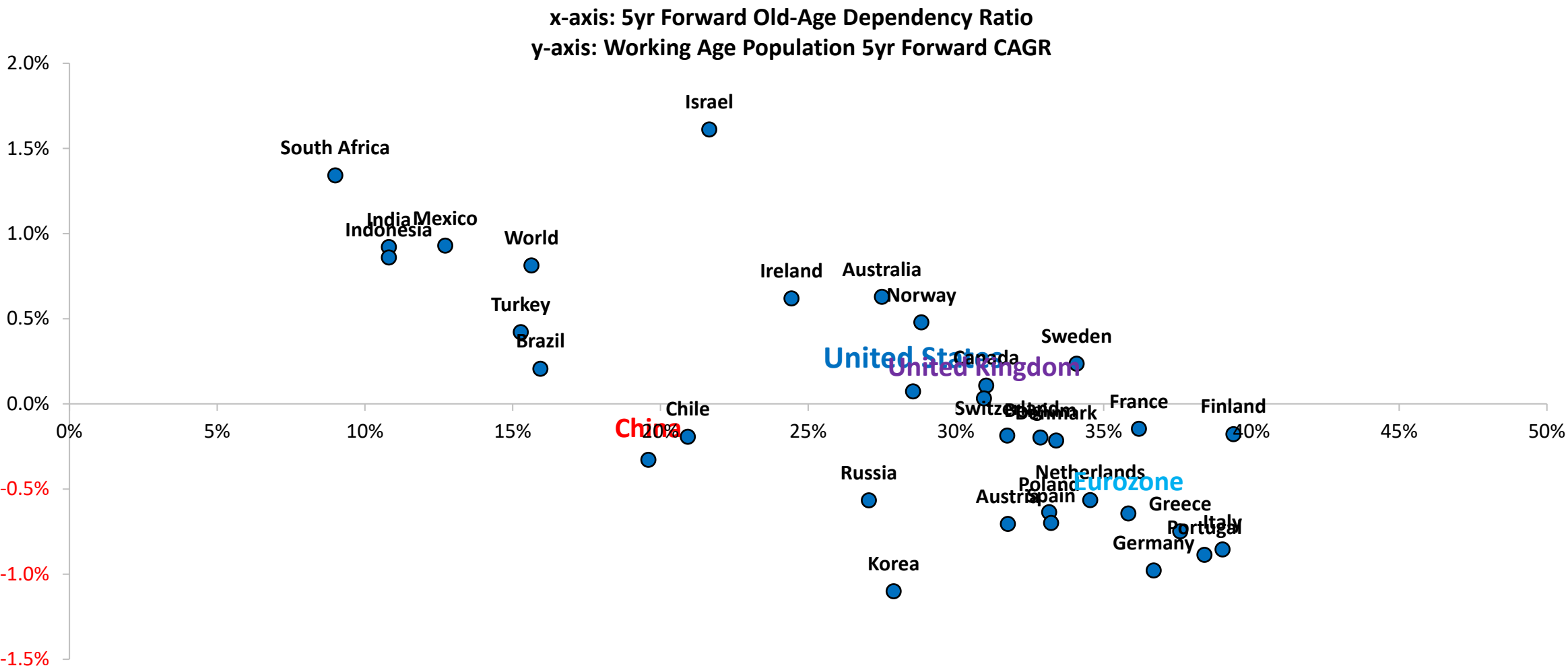
42 Macro Cyclical View: Chinese Growth Has Stabilized



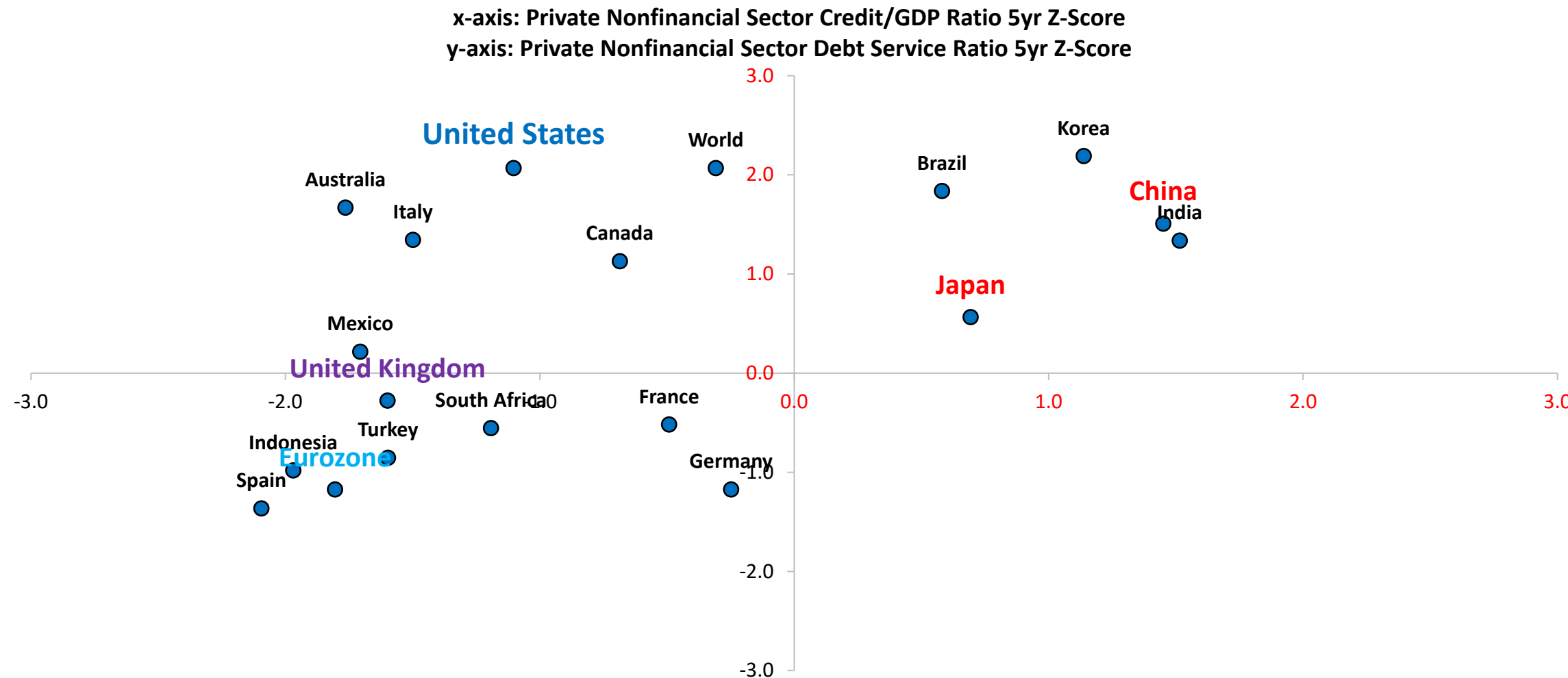
42 Macro Cyclical View: Consensus Estimates For Chinese Growth Appear Low Relative To The Official Target Of Around 5% And Accelerated Policy Support



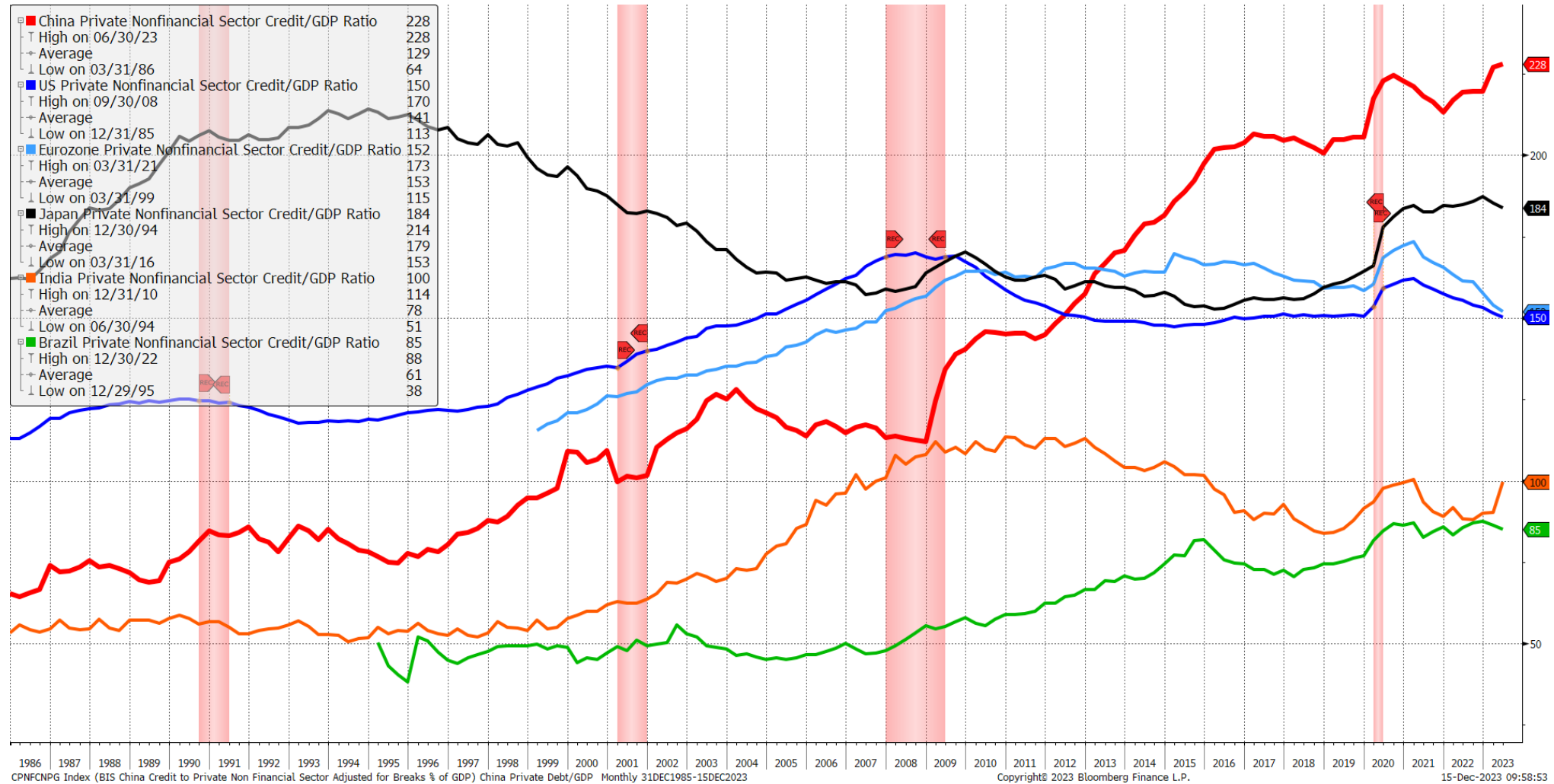
42 Macro Structural View: China's Poor Demographics Sets It Apart From Most Emerging Market Economies



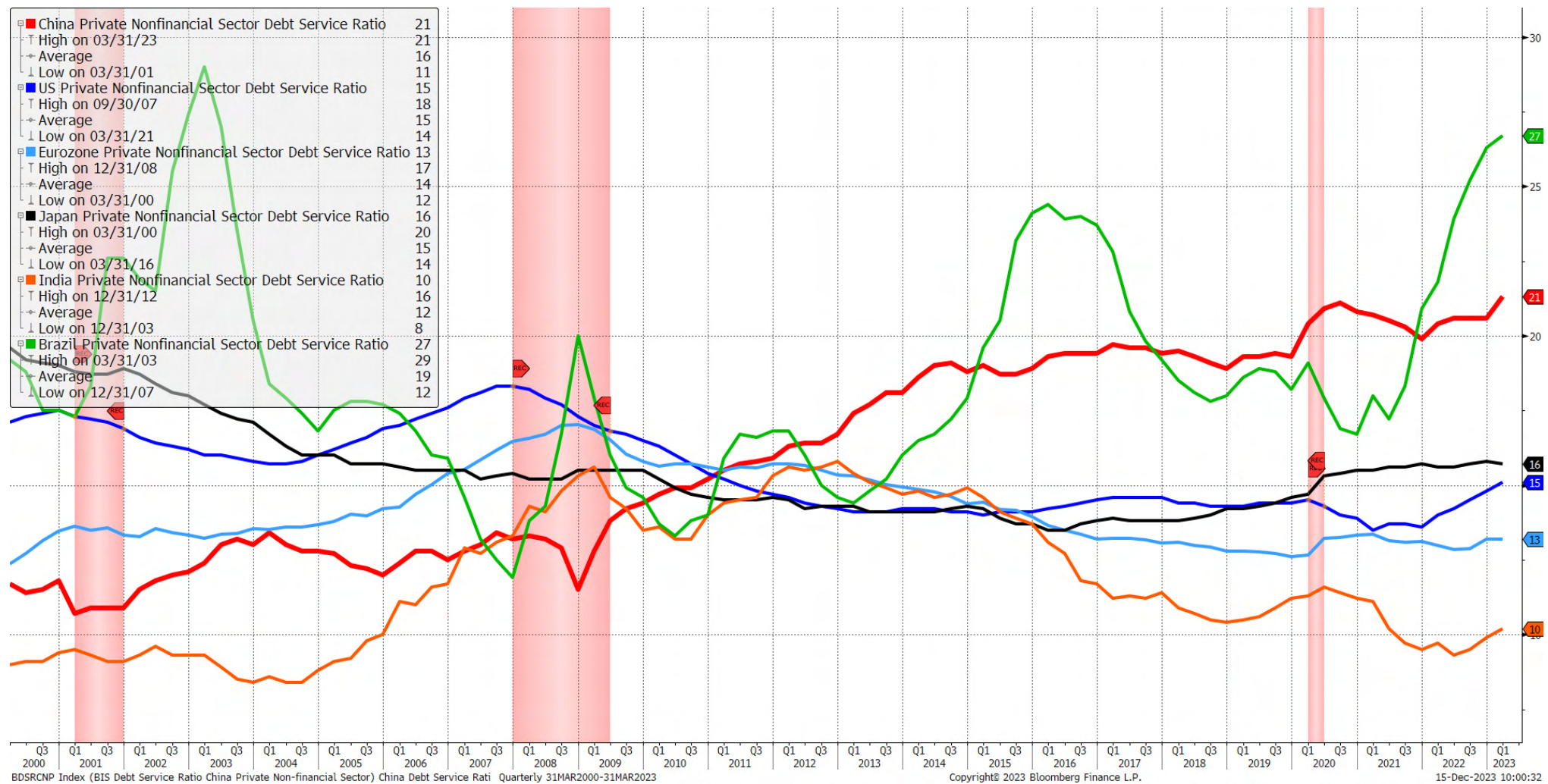
42 Macro Structural View: China Has Among The Worst Credit Cycle Dynamics Of Any Major Economy



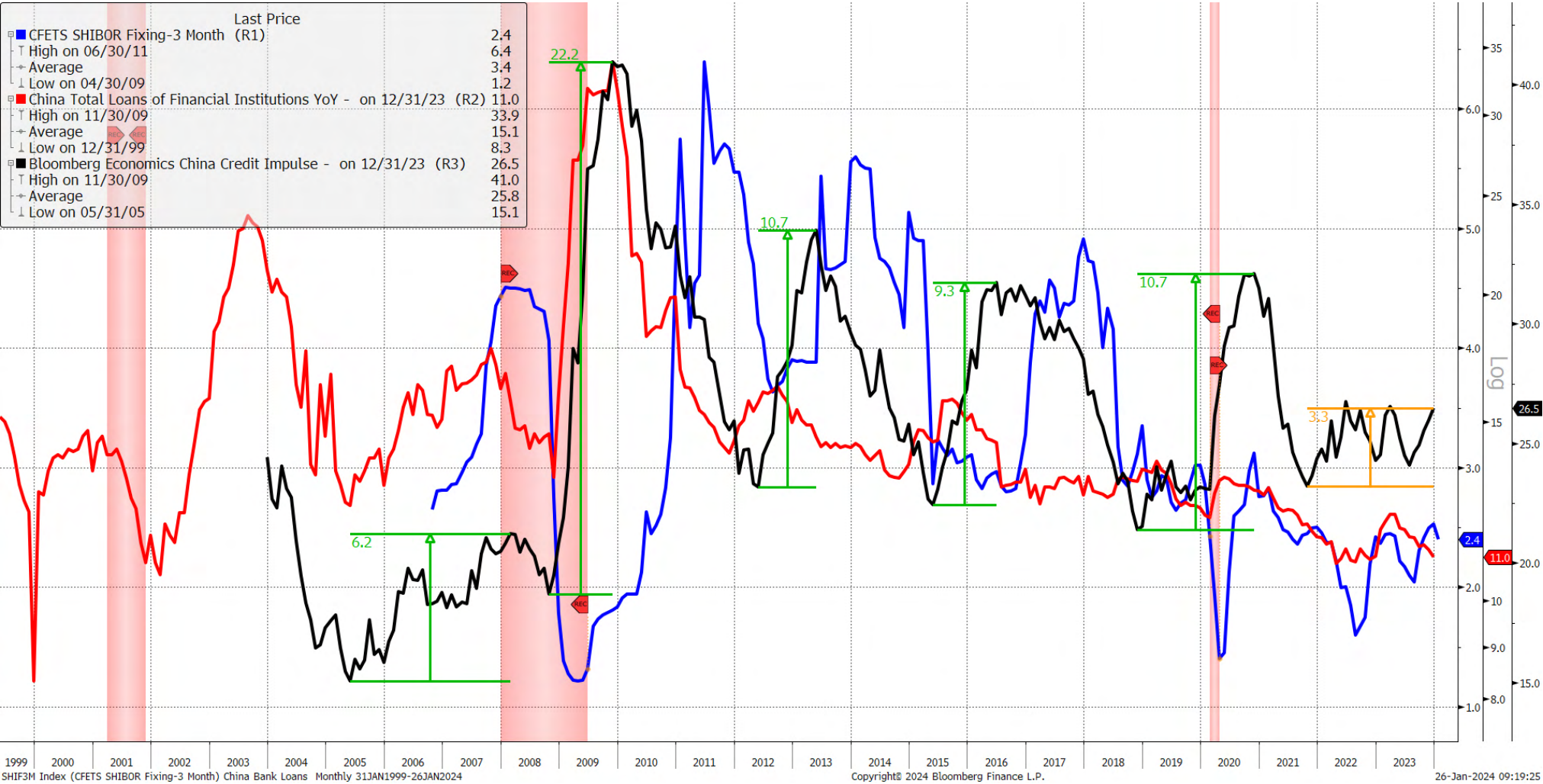
42 Macro Structural View: China's World-Beating Private Sector Debt Burden Is Likely To Weigh On Economic Activity Until Significant Structural Reforms Are Implemented



42 Macro Structural View: China's Private Nonfinancial Debt Service Ratio Means More Than One Out Of Every Five CNY Of Gross Domestic Income Goes To Service Debt

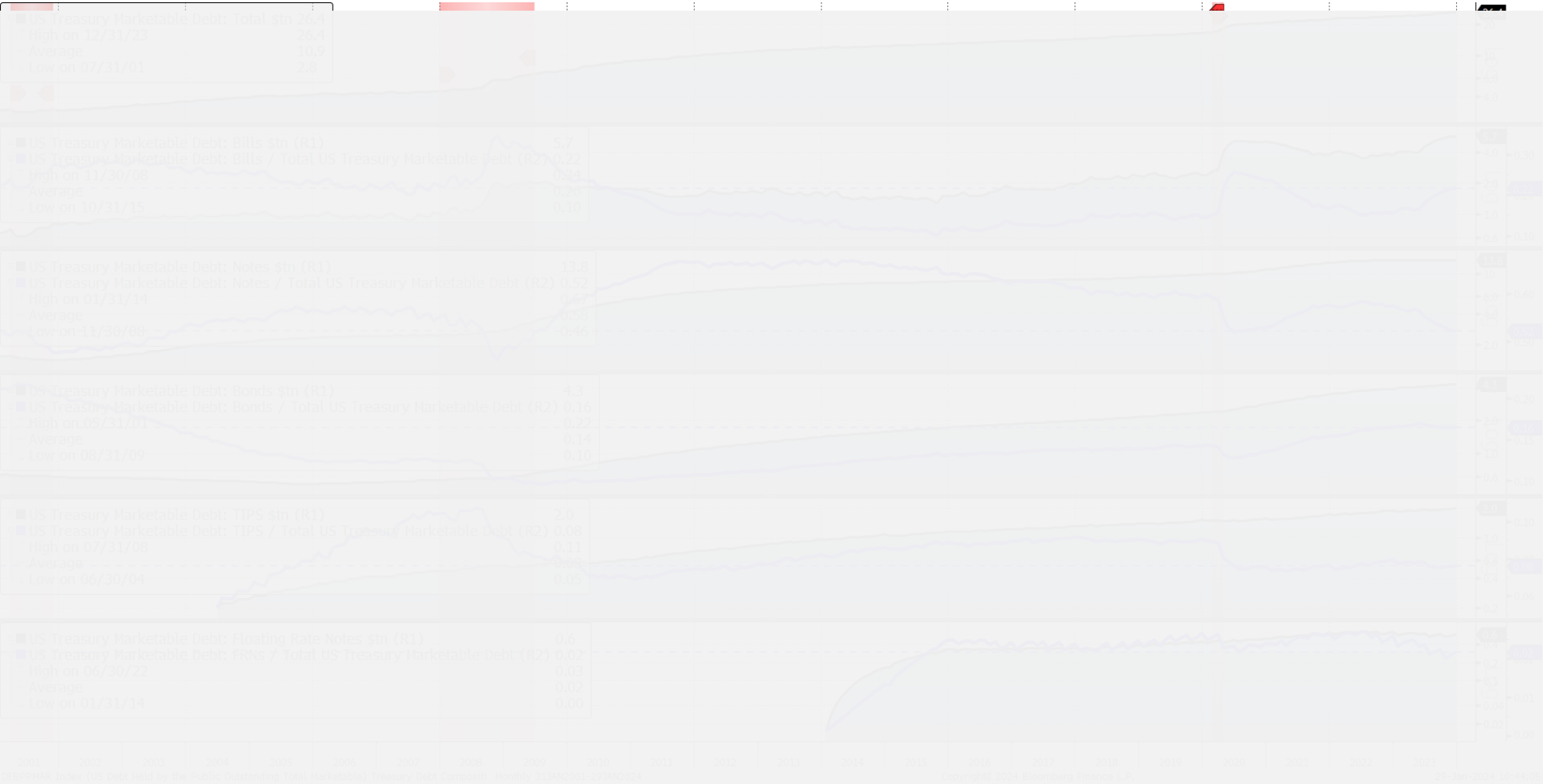


42 Macro Structural View: China's Muted Credit Impulse Is Hard Evidence Of The Structural Liquidity Trap We Called For China To Reopen Back Into In Feb-23

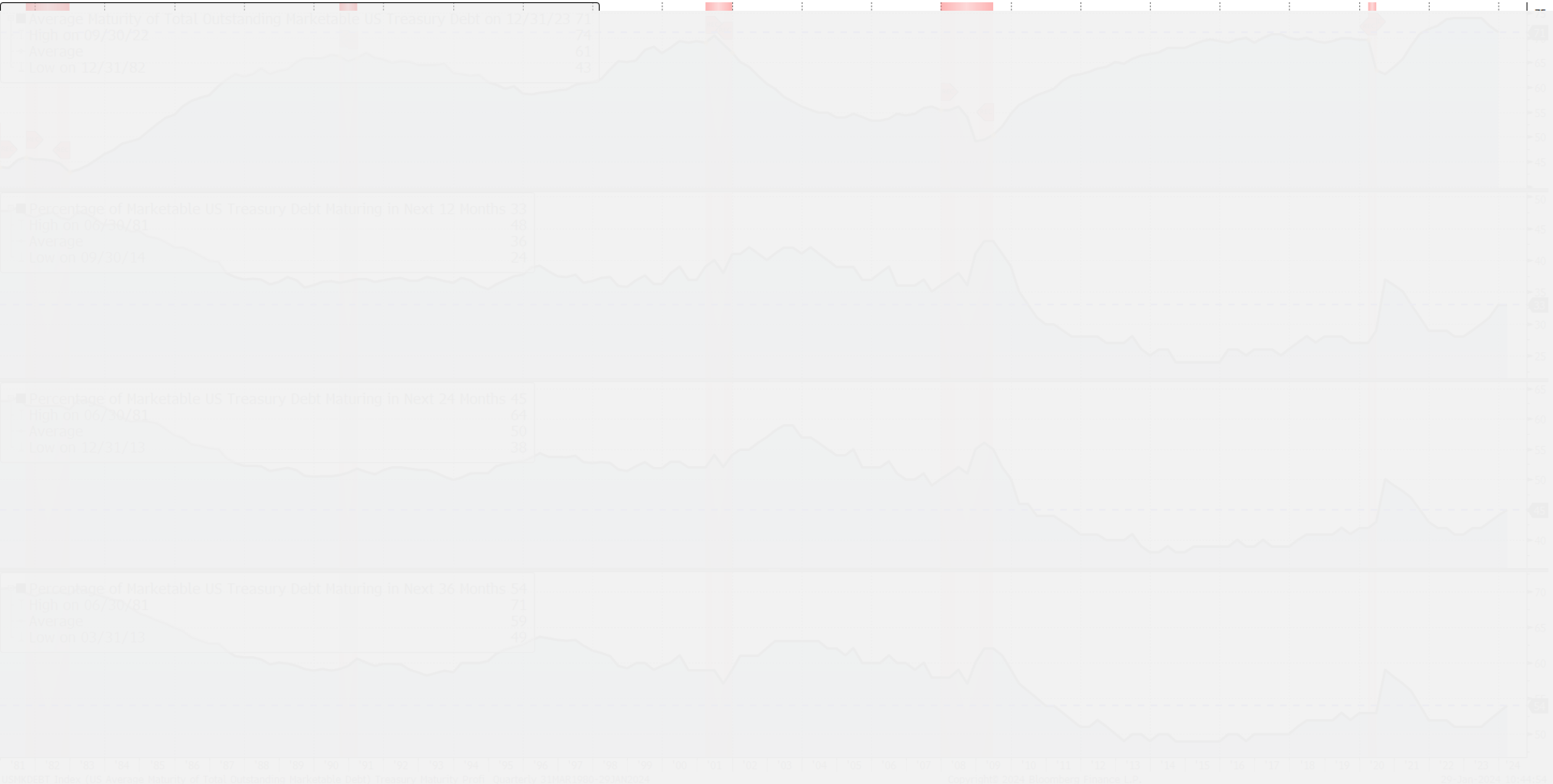


Appendix: US Treasury Debt Dynamics

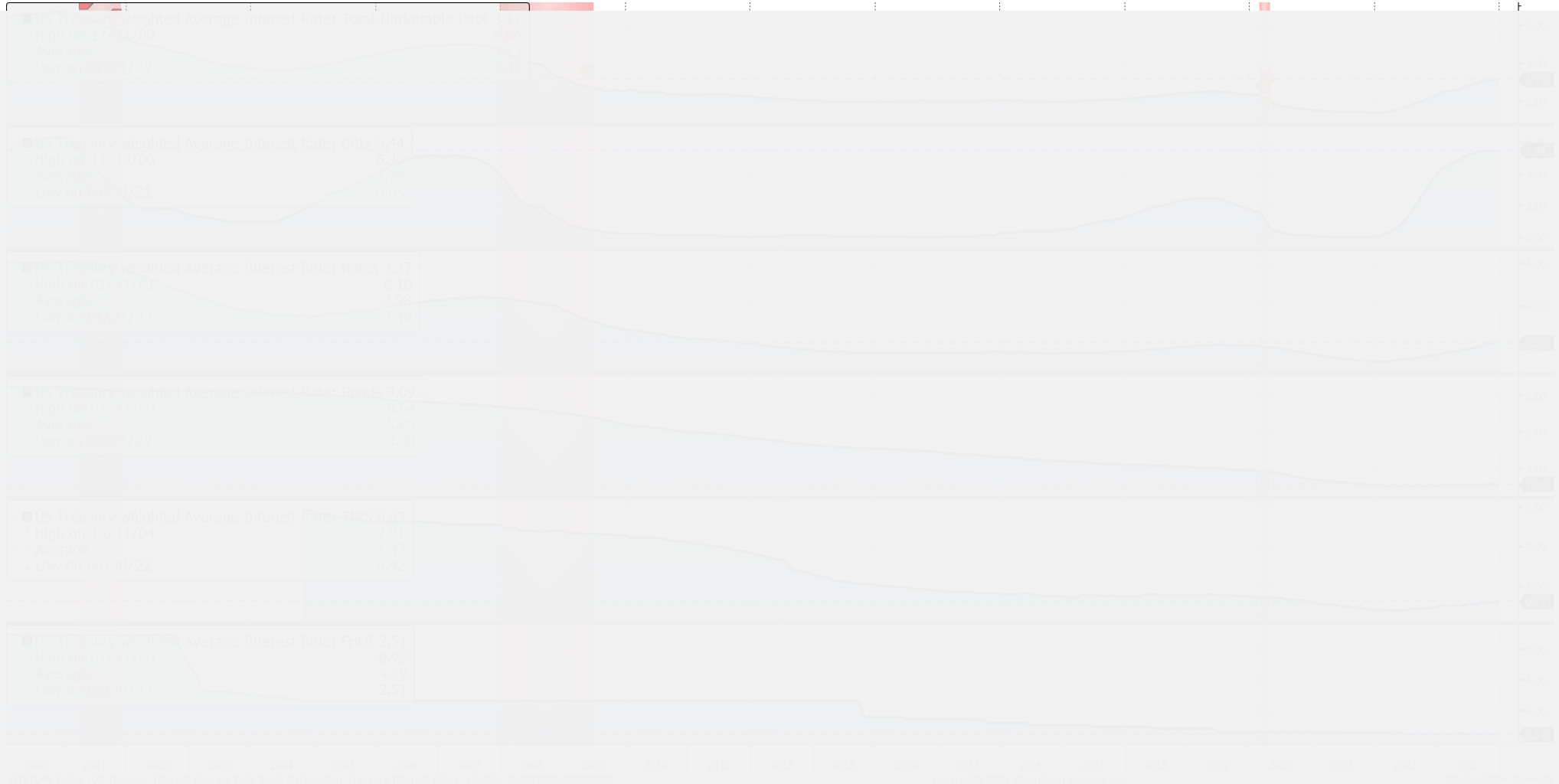
US Treasury Debt Composition



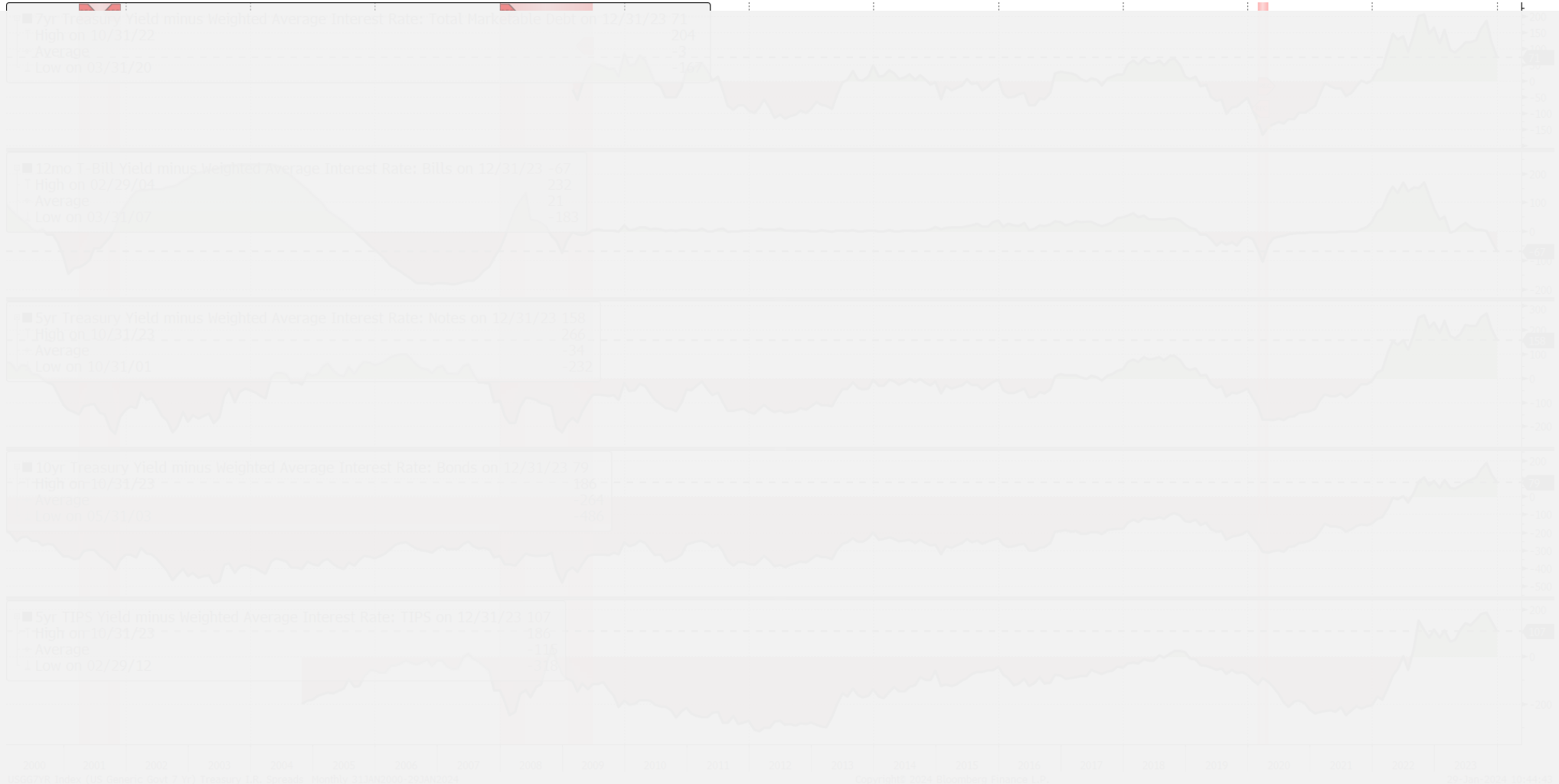
US Treasury Debt Maturity Profile



US Treasury Weighted Average Interest Rates By Segment

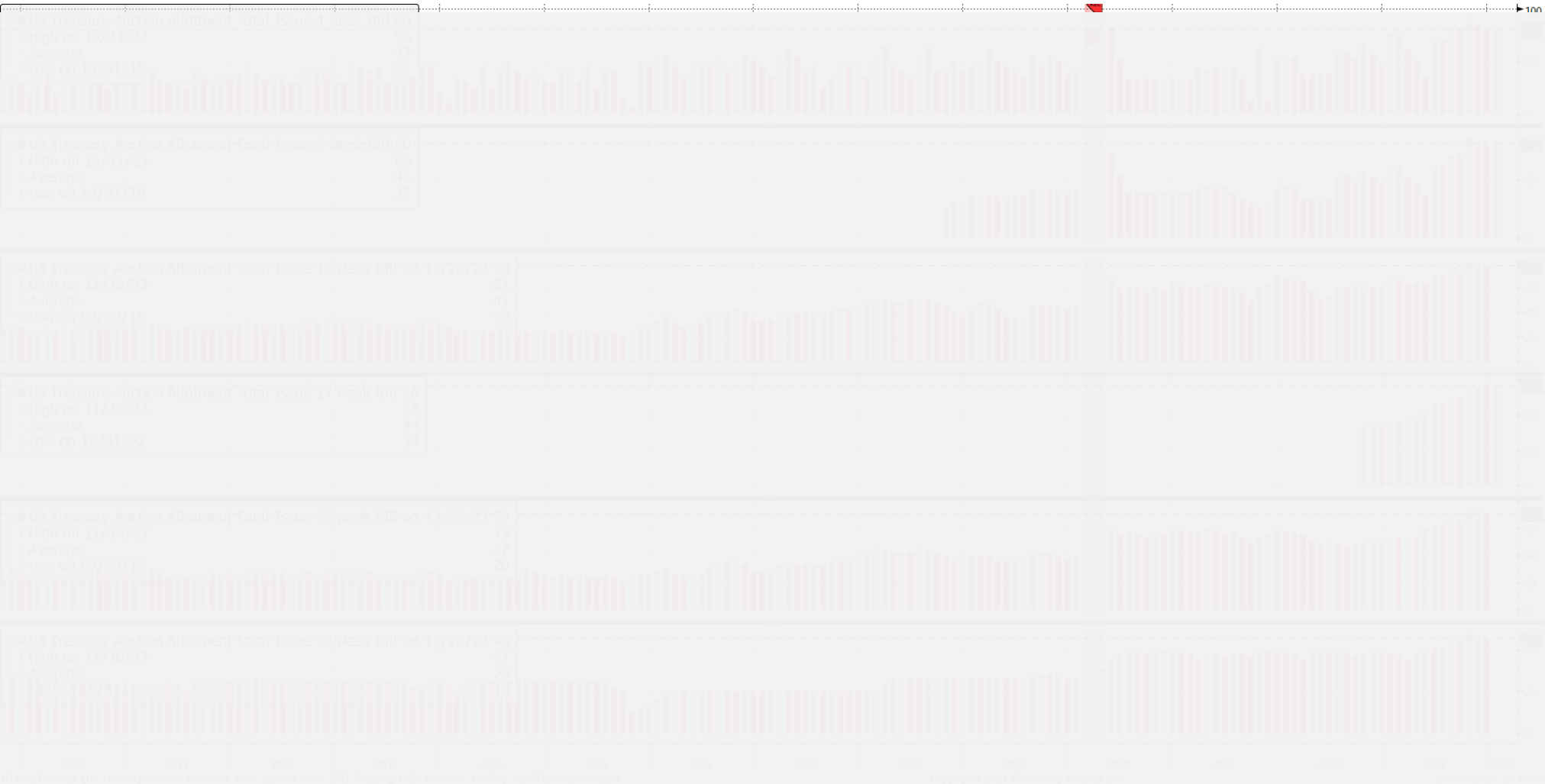


US Treasury Weighted Average Interest Rate Spreads By Segment



US Treasury Gross Issuance By Segment

US Treasury Monthly Bill Auction Sizes By Tenor

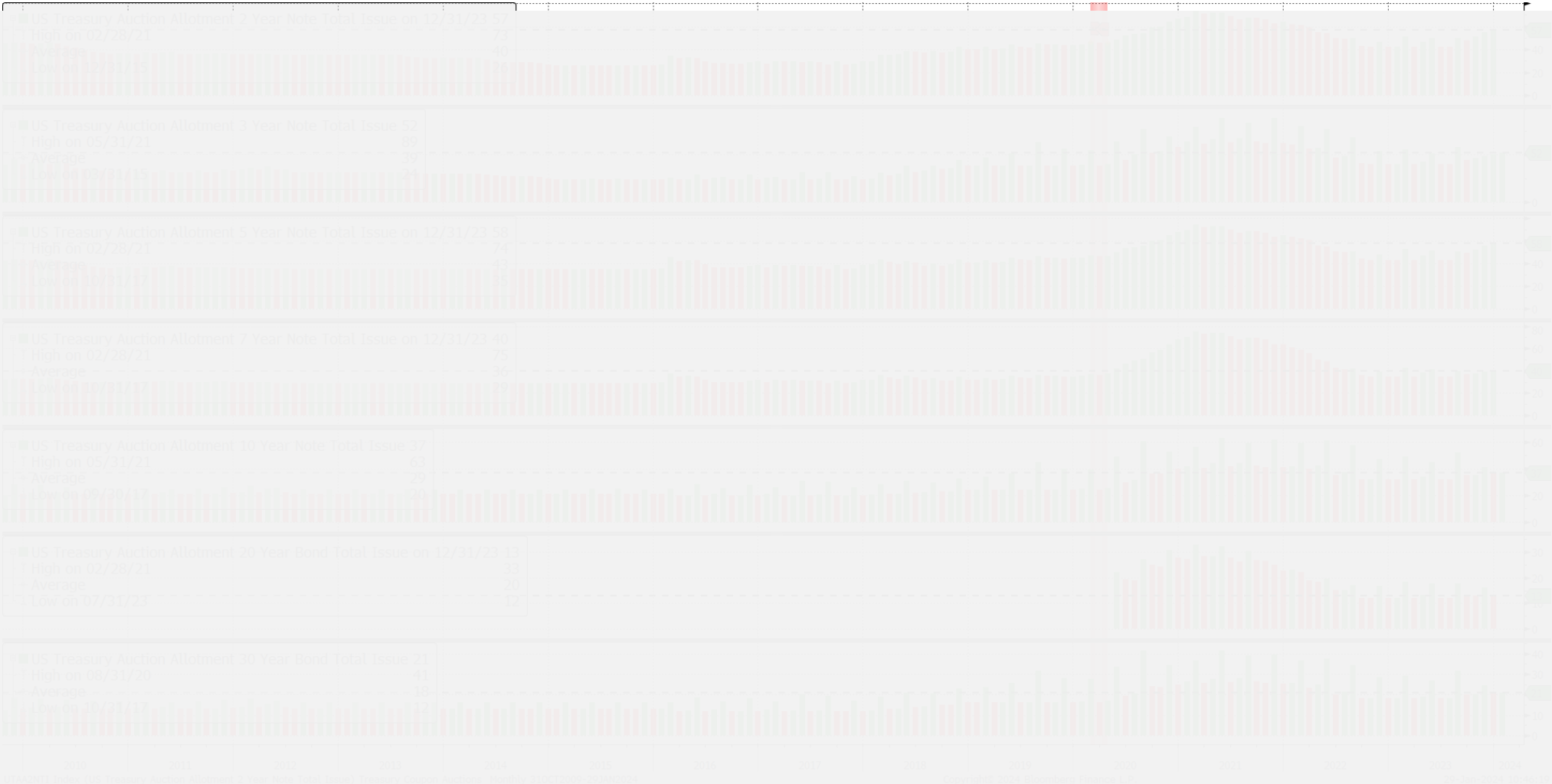


STANBET Index (US Treasury Auction Allotment Total Issue 4 Week Bill) Treasury Bills Auctions Monthly 21OCT2009-20JAN2024

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29 Jan 2024 10:40:00

US Treasury Monthly Coupon Auction Sizes By Tenor

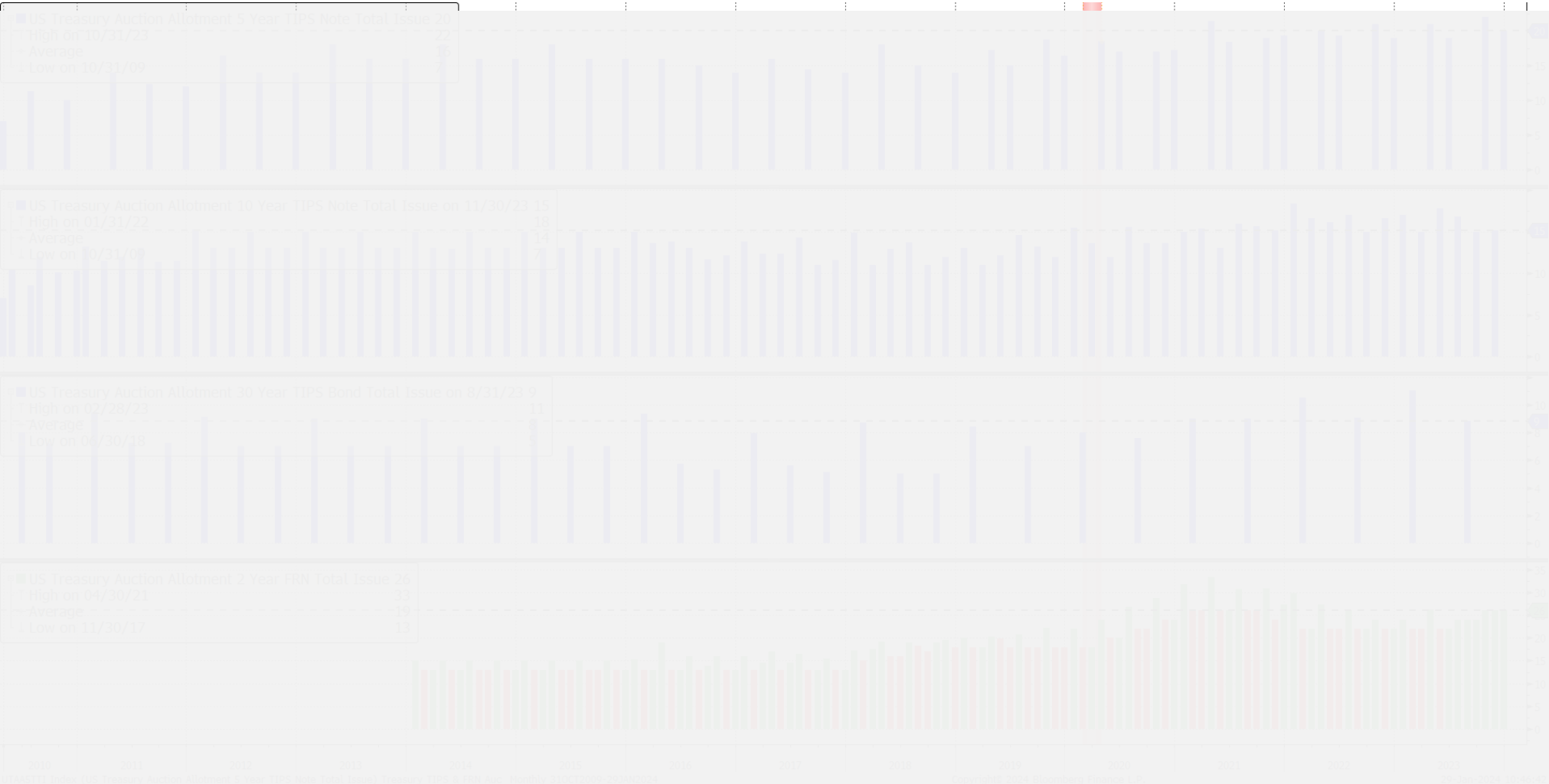


DTA20Y1 Index (US Treasury Auction Allotment 2 Year Note Total Issue) Treasury Coupon Auctions Monthly 21OCT2009-20ANN2024

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25 Jan 2024 10:40:19

US Treasury TIPS & FRN Auction Sizes By Tenor



STATSTIX Index (US Treasury Auction Allotment 5 Year TIPS Note Total Issue) Treasury TIPS & FRN Auc. Monthly 21OCT2009-23JAN2024 Copyright© 2024 Bloomberg Finance L.P. 25-Jan-2024 10:40:42

Thanks for reviewing.
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