



**CRESCAT CAPITAL®**  
THE VALUE OF GLOBAL MACRO INVESTING

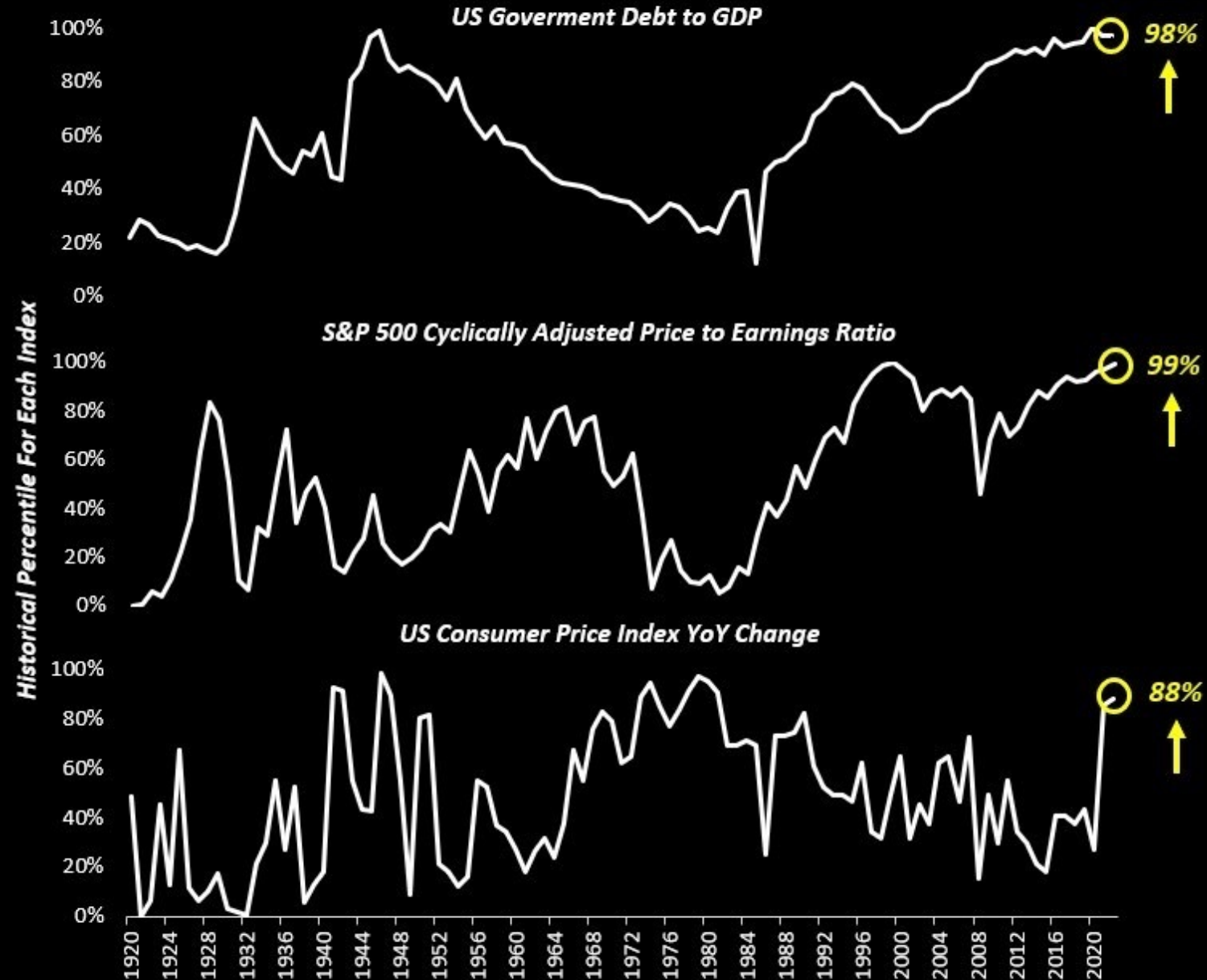
# MACRO PRESENTATION

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Only accredited investors and qualified clients will be admitted as limited partners to a Crescat fund. For natural persons, investors must meet SEC requirements including minimum annual income or net worth thresholds. Crescat funds are being offered in reliance on an exemption from the registration requirements of the Securities Act of 1933 and are not required to comply with specific disclosure requirements that apply to registration under the Securities Act. The SEC has not passed upon the merits of or given its approval to the Crescat funds, the terms of the offering, or the accuracy or completeness of any offering materials. A registration statement has not been filed for any Crescat fund with the SEC. Limited partner interests in the Crescat funds are subject to legal restrictions on transfer and resale. Investors should not assume they will be able to resell their securities. Investing in securities involves risk. Investors should be able to bear the loss of their investment. Investments in the Crescat funds are not subject to the protections of the Investment Company Act of 1940. Performance data represents past performance, and past performance does not guarantee future results. Performance data is subject to revision following each monthly reconciliation and annual audit. Current performance may be lower or higher than the performance data presented. Crescat is not required by law to follow any standard methodology when calculating and representing performance data. Crescat Portfolio Management claims compliance with Global Investment Performance Standards (GIPS®). Prospective clients can obtain a compliance presentation and the firm's list of composite descriptions by visiting our website at [www.crescat.net/resources/due-diligence/](http://www.crescat.net/resources/due-diligence/). Returns are presented net of management fees and performance fees, except where otherwise indicated. The currency used to express performance is U.S. dollars. The performance of Crescat funds may not be directly comparable to the performance of other private or registered funds. Investors may obtain the most current performance data and private offering memorandum for a Crescat fund by contacting Linda Smith at (303) 228-7371 or by sending a request via email to [lsmith@crescat.net](mailto:lsmith@crescat.net). See the private offering memorandum for each Crescat fund for complete information and risk factors.

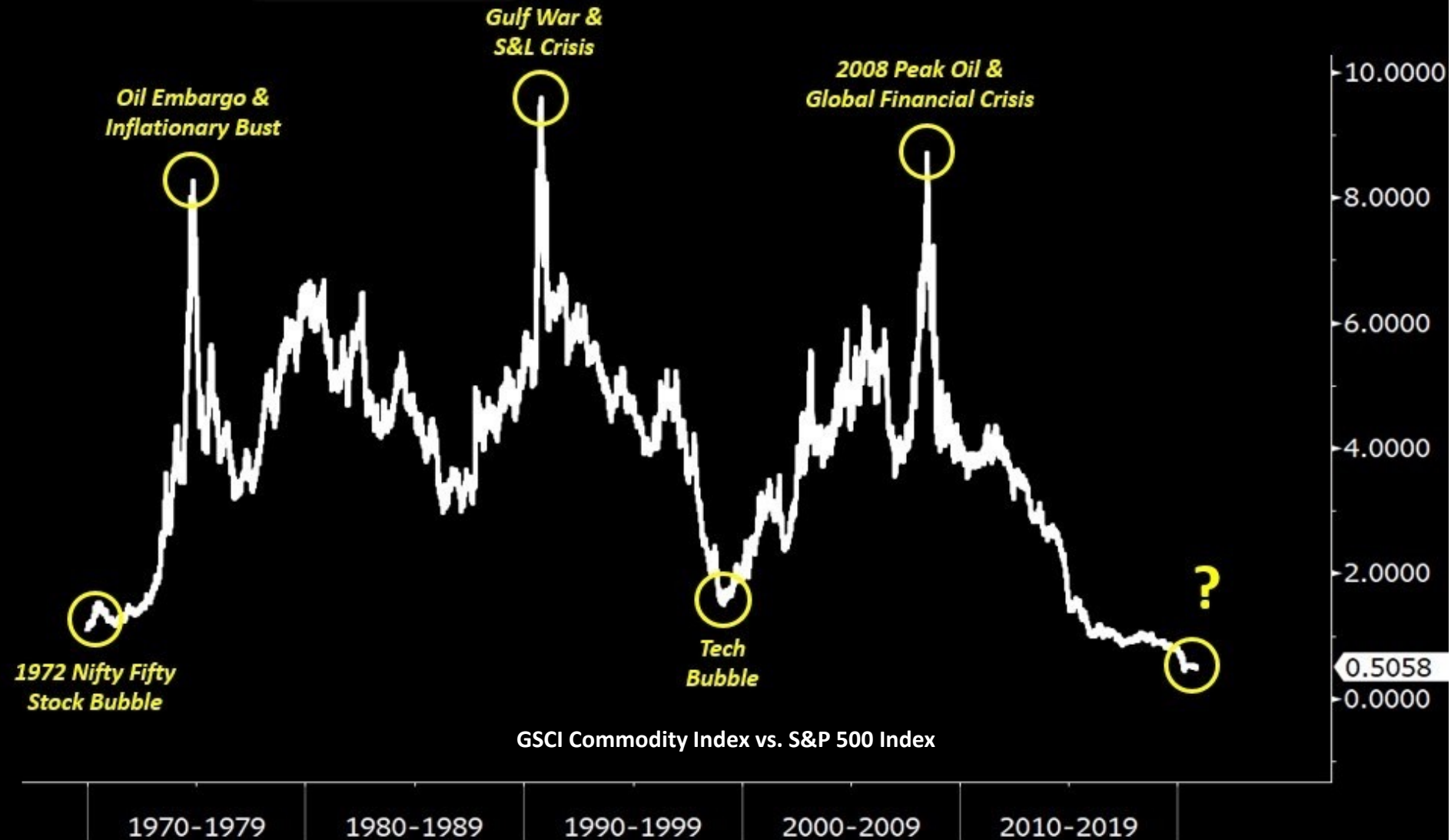
# Debt, Valuation & Inflation



Source: Federal Reserve, Yale University, Robert J. Shiller

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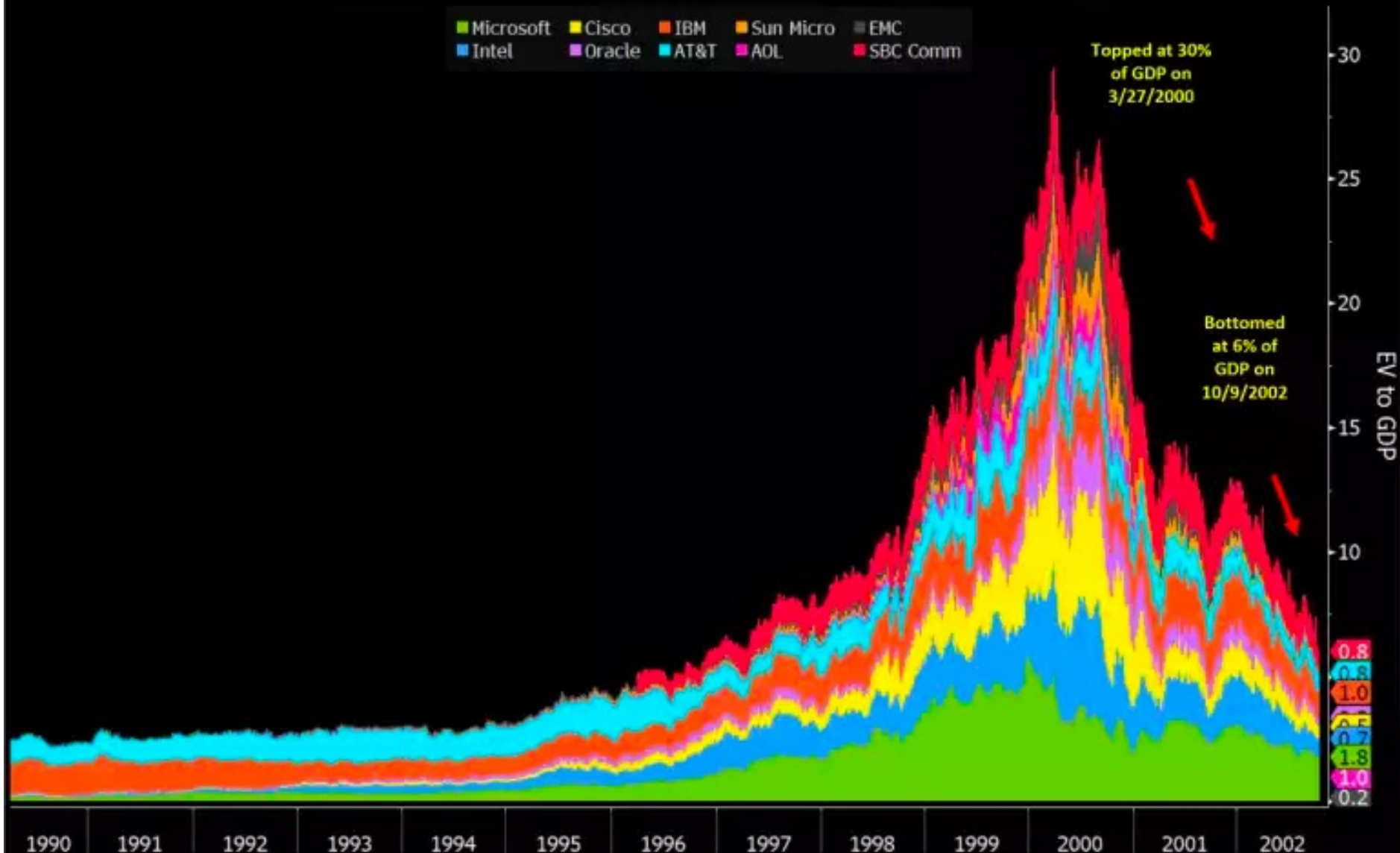
# Commodities to Equities Ratio





# Tech Bubble Then (2000)

*Top 10 US Technology Stocks by Market Cap at S&P 500 Peak (3/24/2000): Enterprise Value as % of GDP*

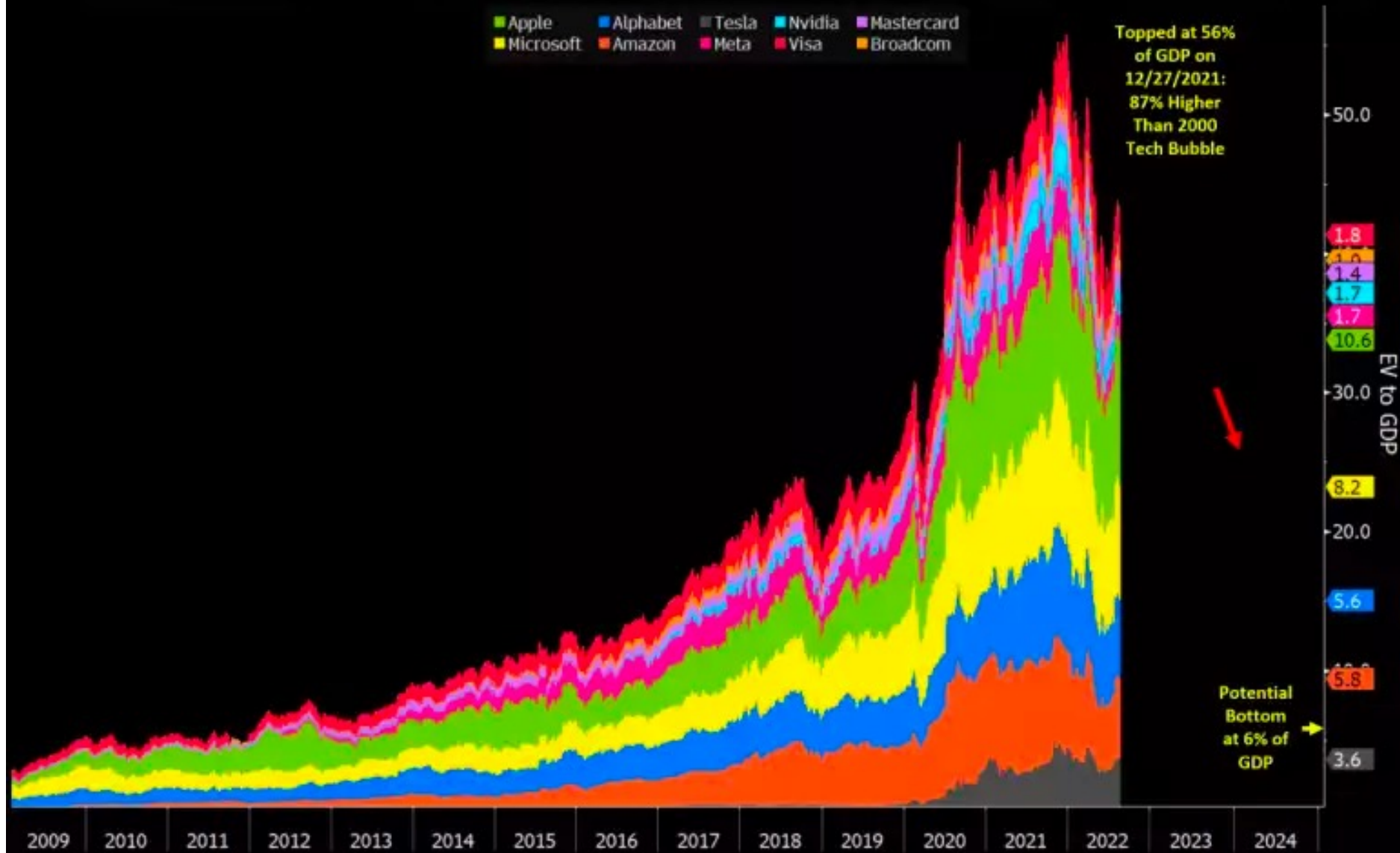


Source: Bloomberg

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# Tech Bubble Now (2022)

Top 10 US Technology Stocks by Market Cap at S&P 500 Peak (1/3/2022): Enterprise Value as % of GDP

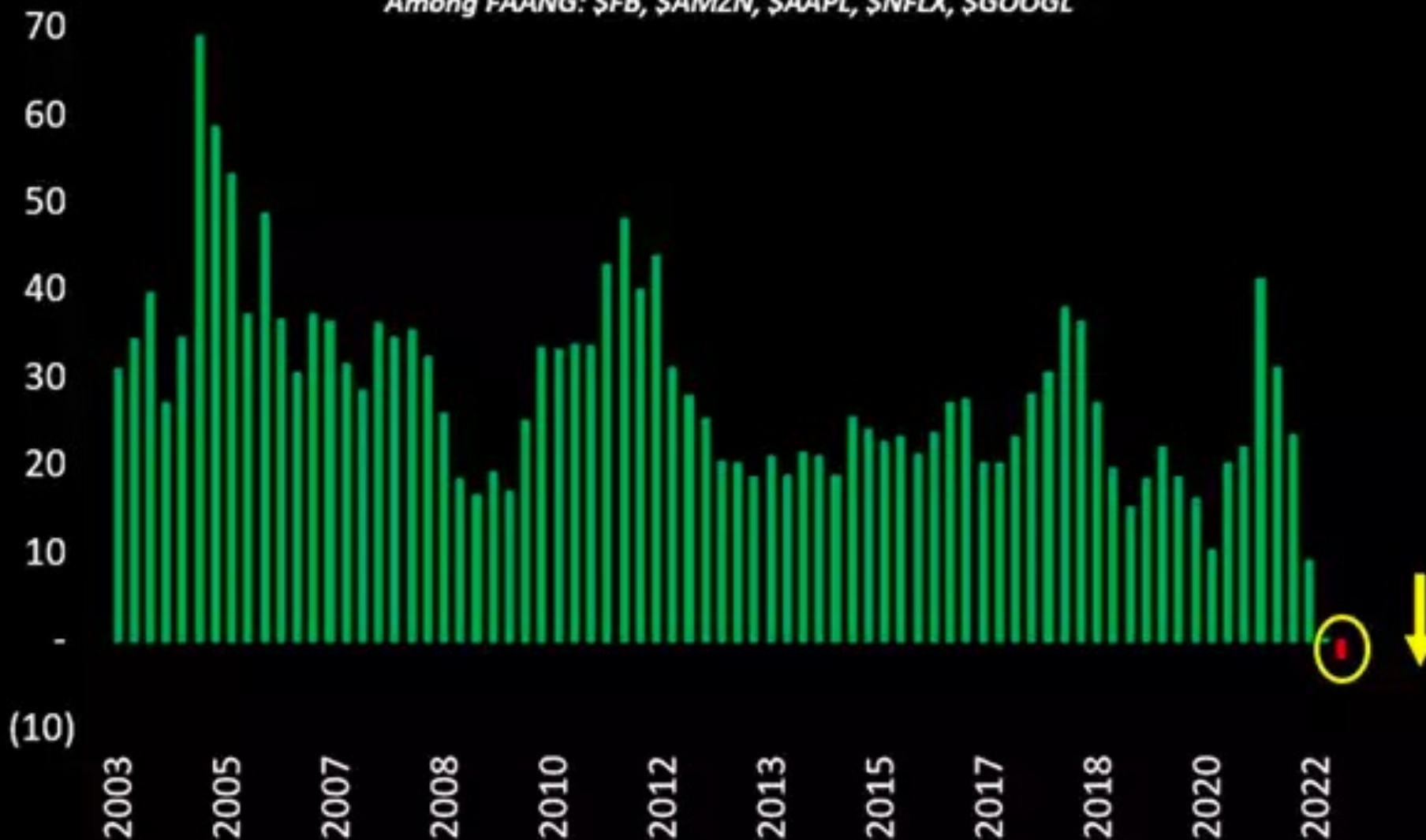


Source: Bloomberg

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# FAANG Revenue Real Growth (%)

Median YoY Sales Growth - CPI YoY Growth  
Among FAANG: \$FB, \$AMZN, \$AAPL, \$NFLX, \$GOOGL



Source: Bloomberg

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# THE RISE AND FALL OF THE CONSUMER

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# Corporate Margins vs. Consumer Sentiment

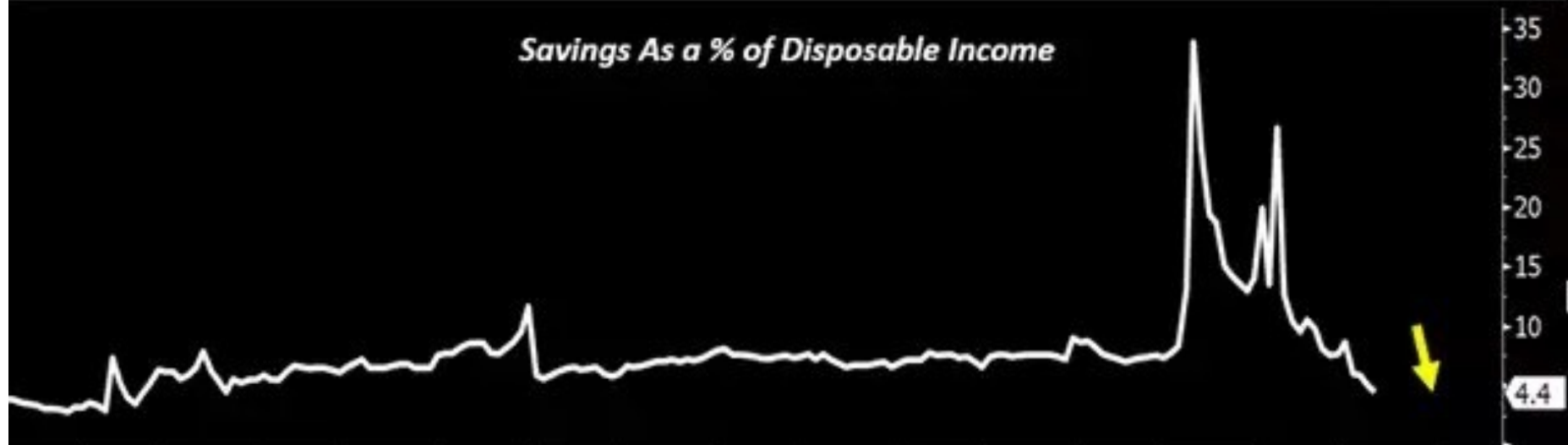


# Consumer Squeeze

*Real Wages Growth YoY (%)*



*Savings As a % of Disposable Income*



2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023

Source: Bloomberg

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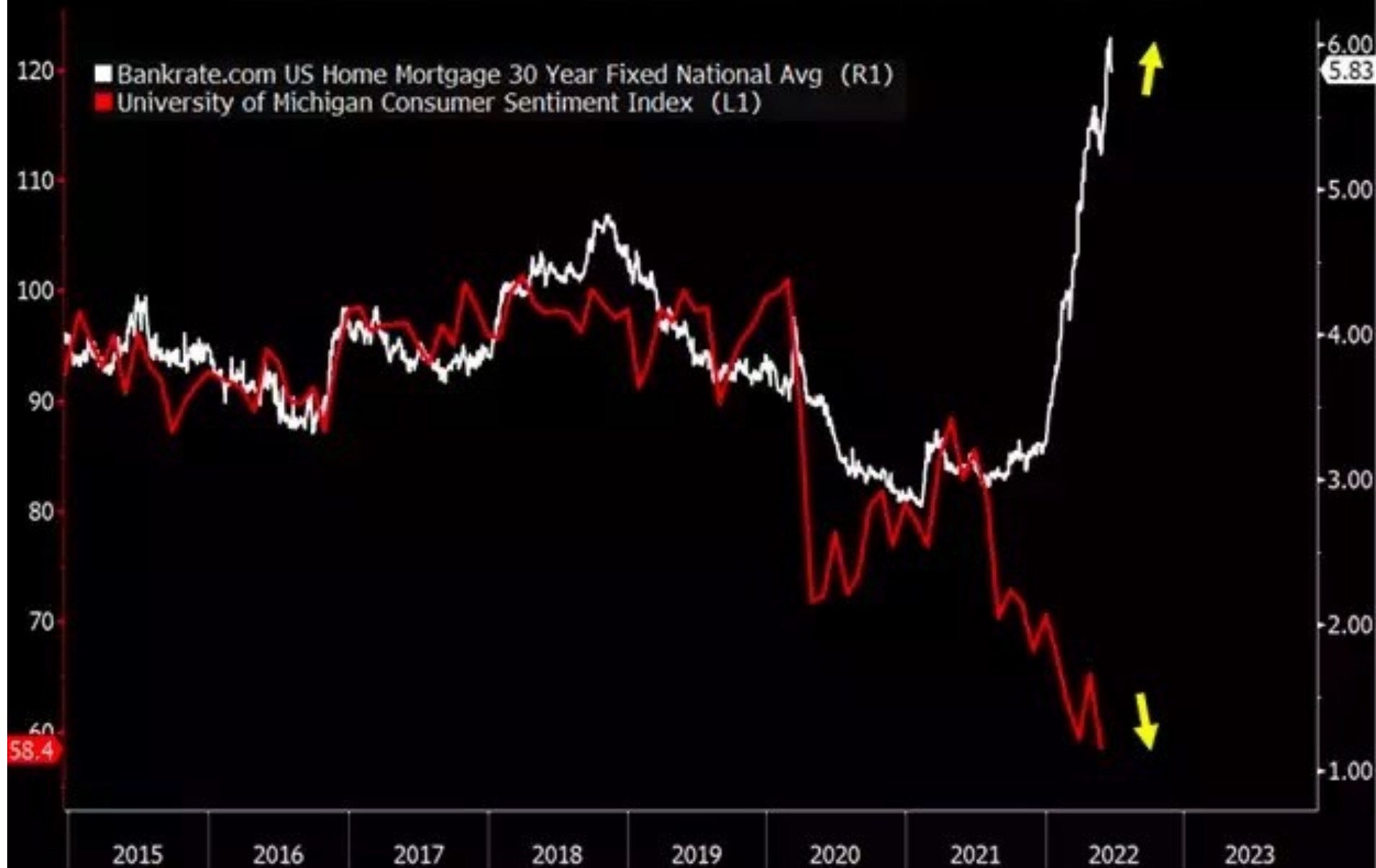
## Global Corporate Earnings Revision vs. DXY Index (Inverted)



Source: Bloomberg

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# US Consumer Sentiment vs. Mortgage Rates



Source: Bloomberg

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# Smaller Cap Tech Stocks: Profit Margins

*Russell 2000 Technology Stocks 12TM Aggregate Profit Margins (%)*



*Global  
Financial  
Crisis*

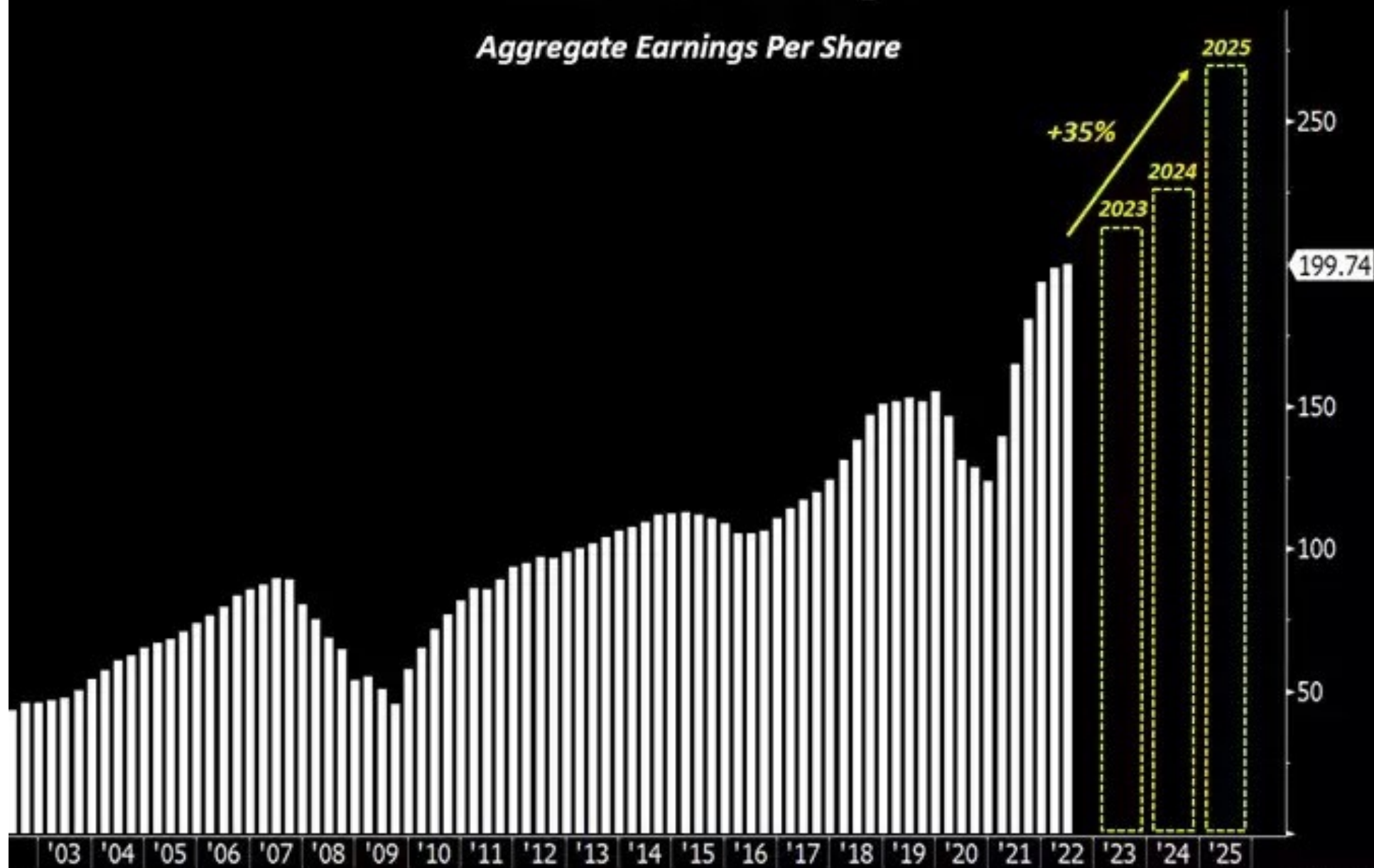
Source: Bloomberg

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# S&P 500 Earnings

*Aggregate Earnings Per Share*

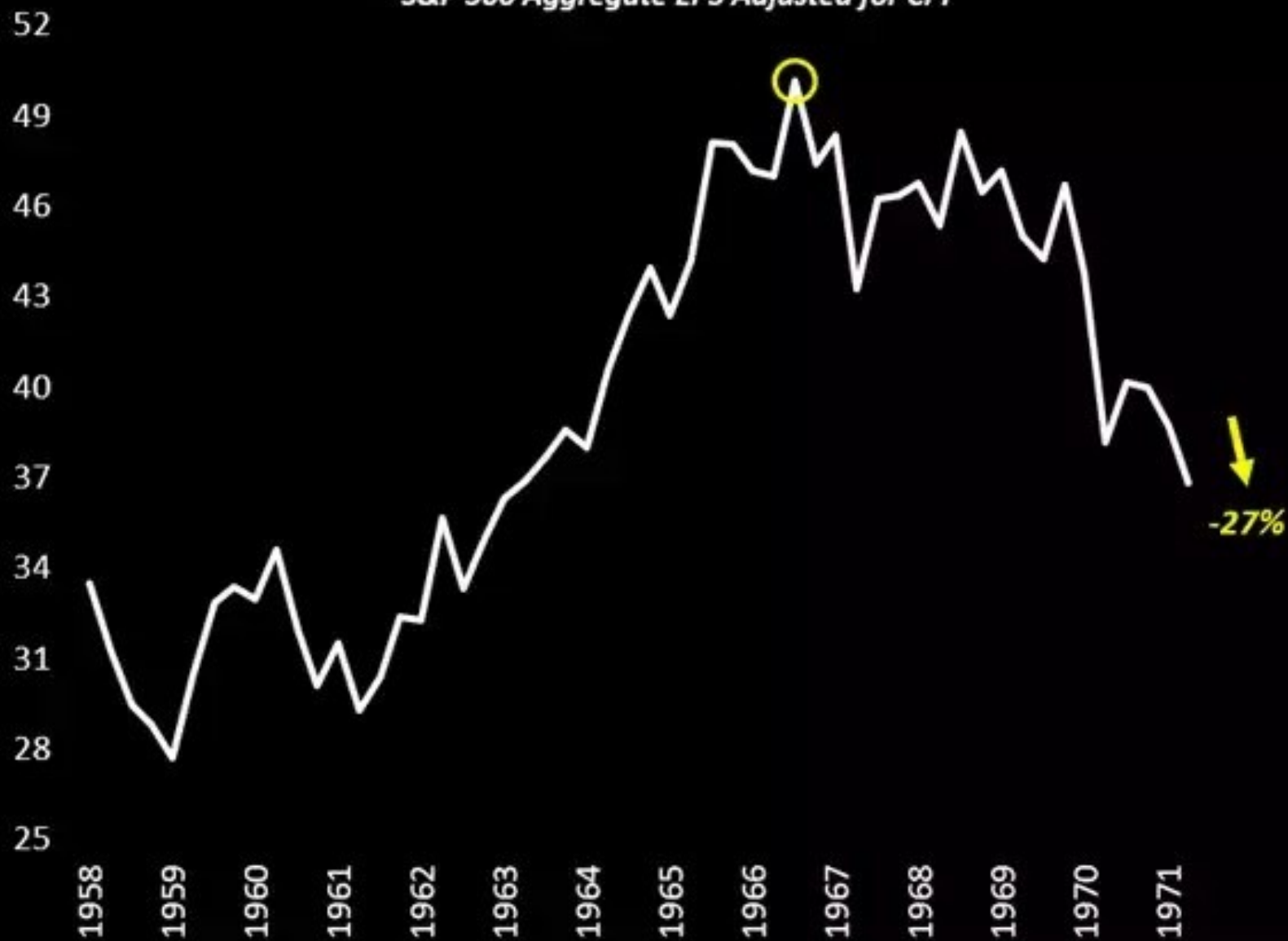


Source: Bloomberg

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## Real Corporate Earnings in the Late 60s & Early 70s

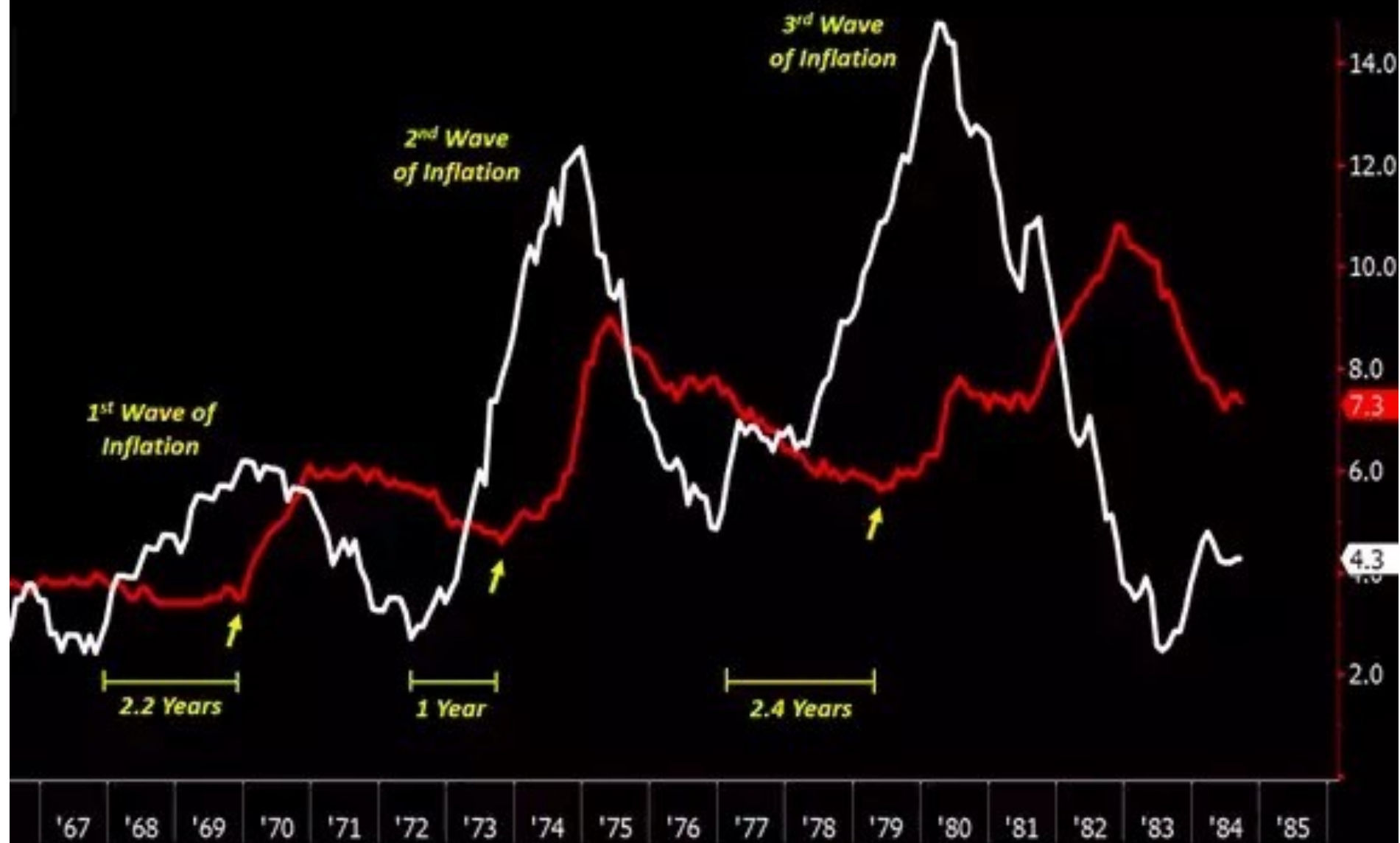
*S&P 500 Aggregate EPS Adjusted for CPI*



Source: Bloomberg

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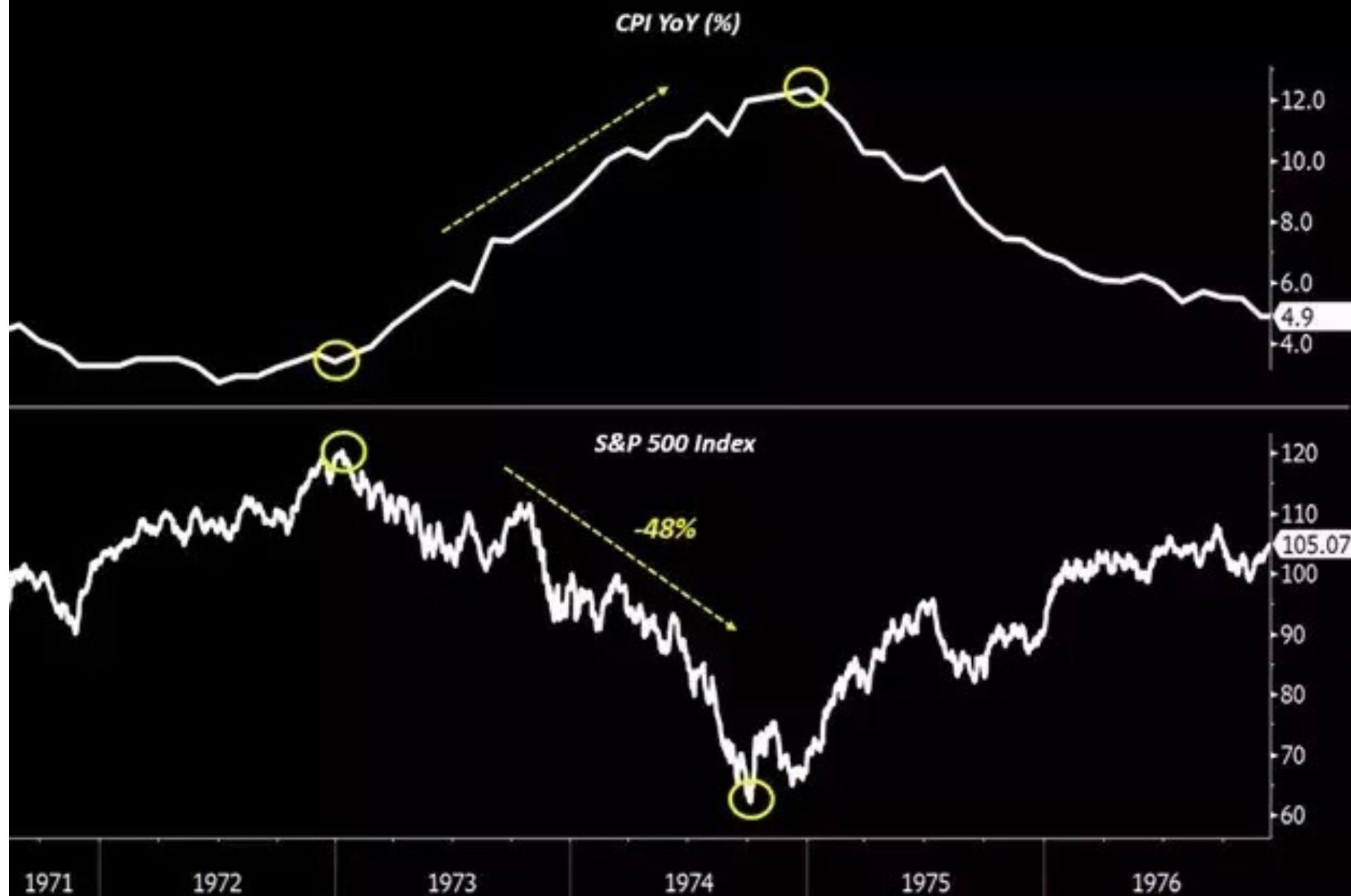
## 1960-70s: Inflation Led to Higher Unemployment Rates



Source: Bloomberg

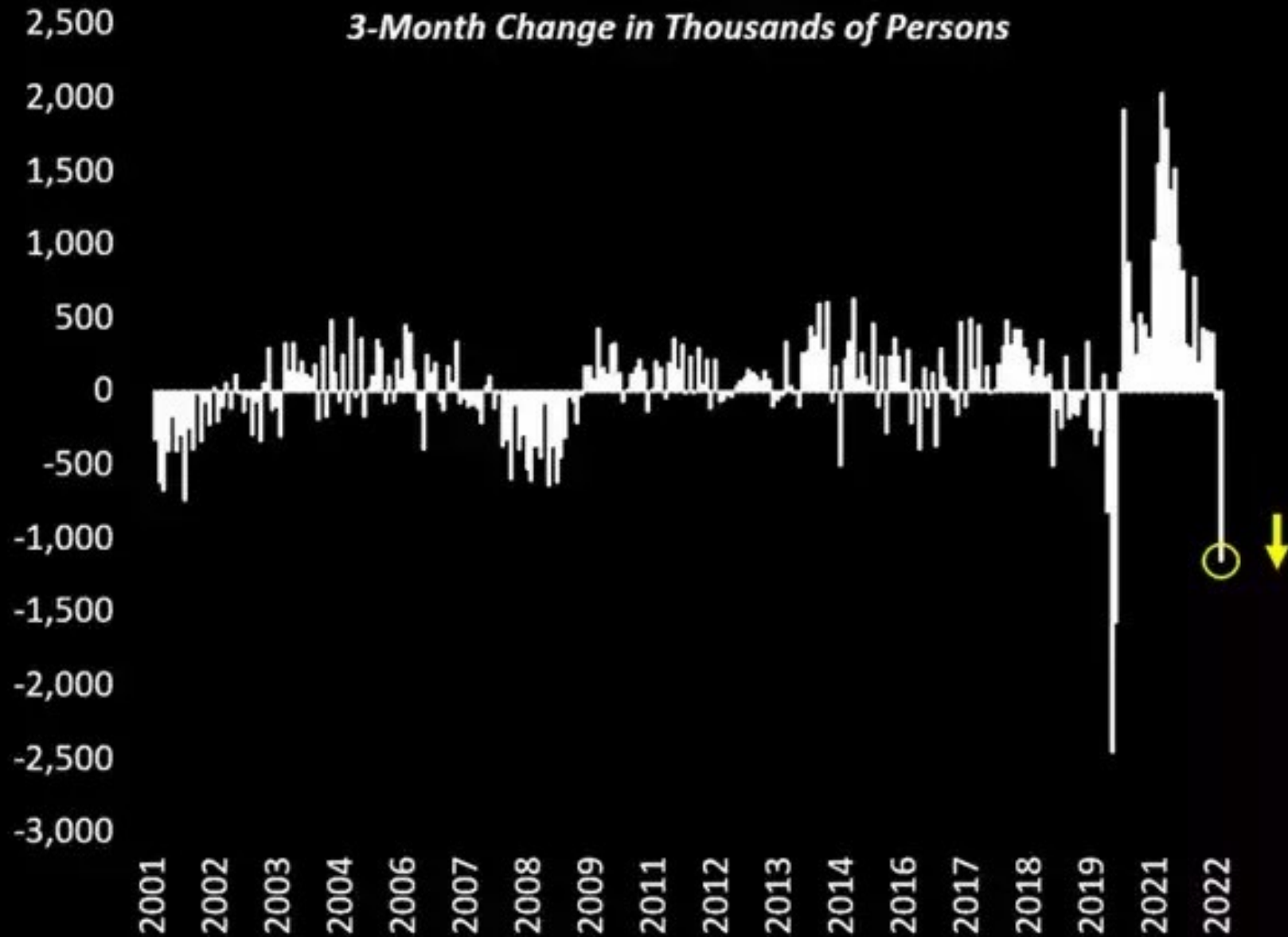
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## Inflation vs. S&P 500 During the 1973-4 Recession



# US Job Openings

*3-Month Change in Thousands of Persons*



Source: Bloomberg

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# Tech Bubble: Nonfarm Payrolls vs. S&P 500

■ US Employees on Nonfarm Payrolls Total MoM Net Change SA  
■ S&P 500 INDEX

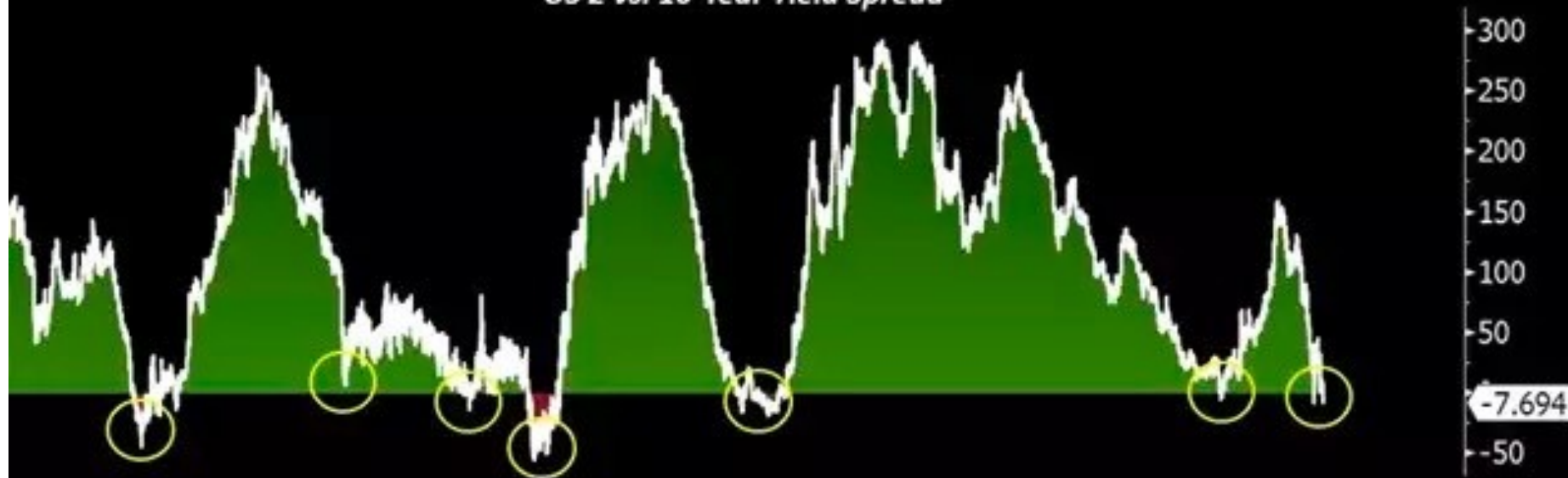


Source: Bloomberg

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# US Yield Curve vs. Prior Tightening Cycles

US 2 vs. 10-Year Yield Spread



Fed Funds Rate (%)



1985-1989 1990-1994 1995-1999 2000-2004 2005-2009 2010-2014 2015-2019 2020-2024

Source: Bloomberg

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# S&P 500 vs. 1-Year Eurodollar Curve



Source: Bloomberg

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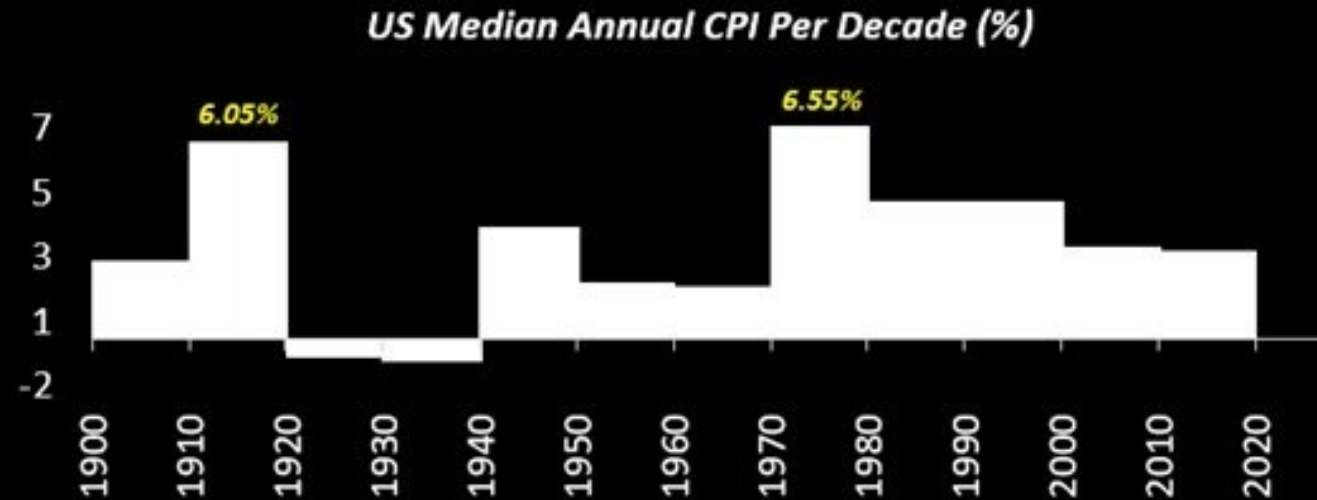


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# AN INFLATIONARY REGIME

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# Stocks During Inflationary Periods



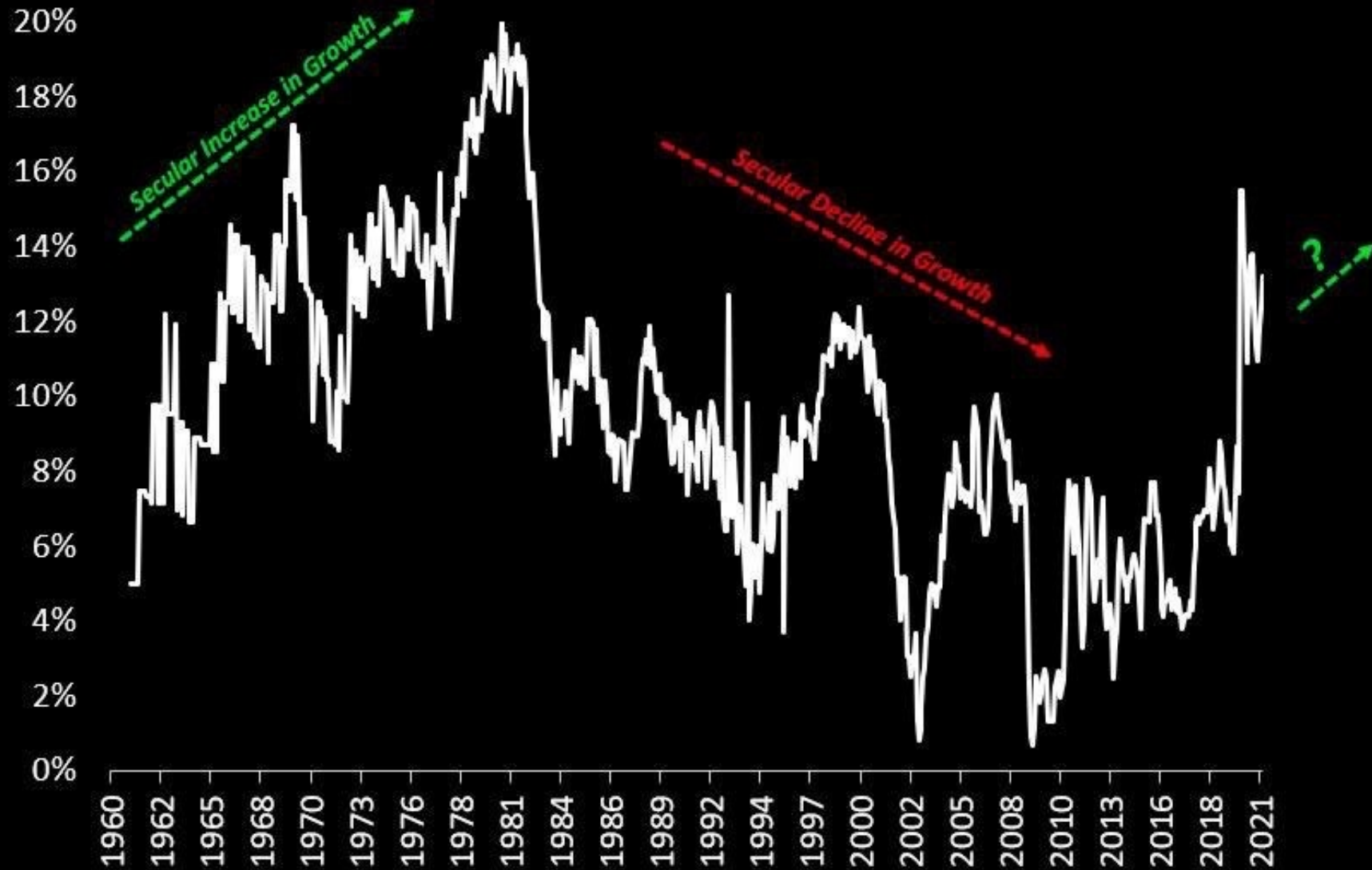
Source: Federal Reserve

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# Growth in Wages & Salaries Per Employed Person

24-Month Change (%)

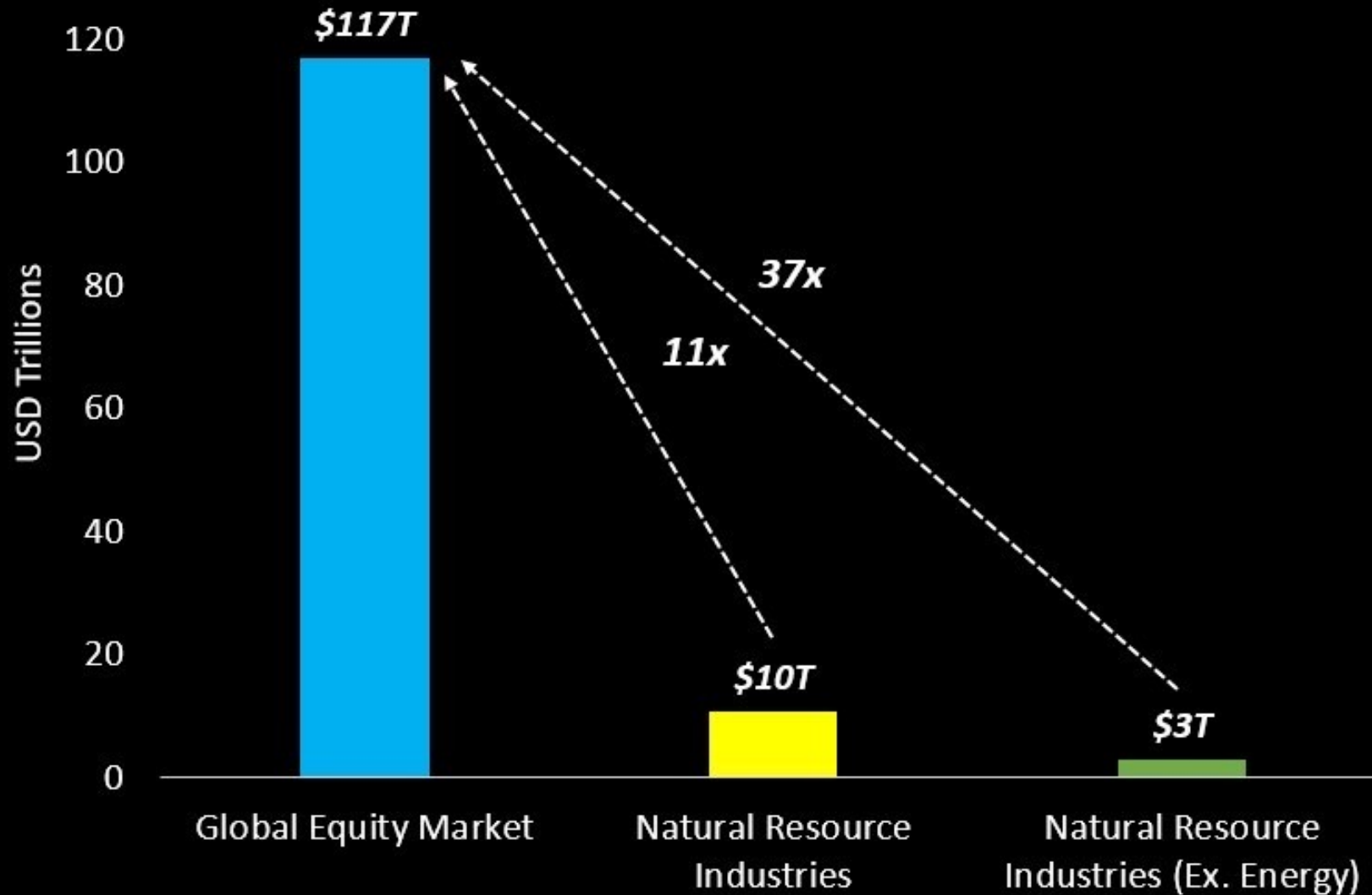


Source: Federal Reserve

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# Natural Resource Industries vs. Global Equity Markets

*Public Companies Aggregate Market Cap Worldwide*

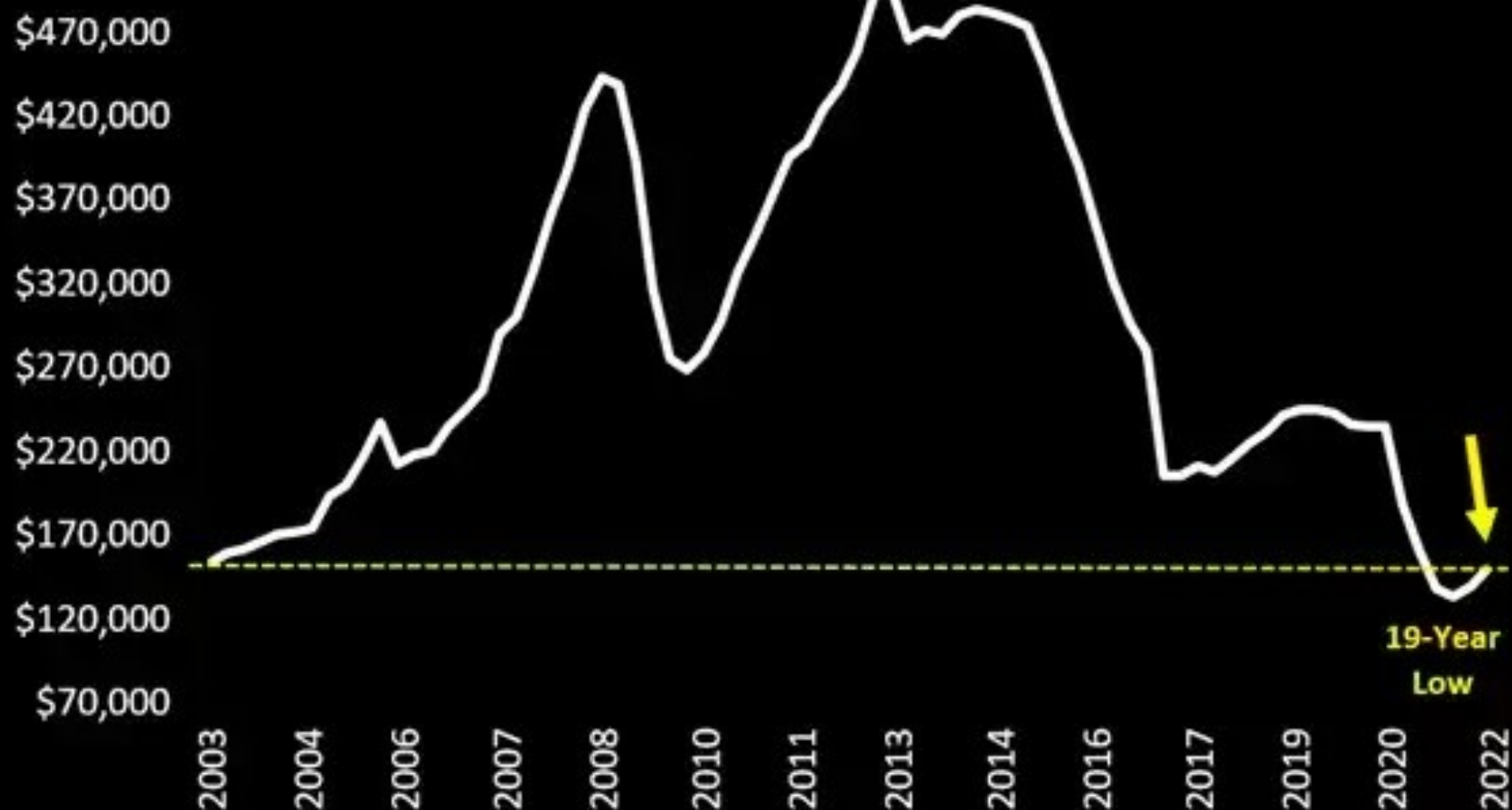


Source: Bloomberg

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# Commodity Producers: Capex Cycle Adjusted For GDP

*Aggregate Trailing 12-Months of Capex in USD Millions*



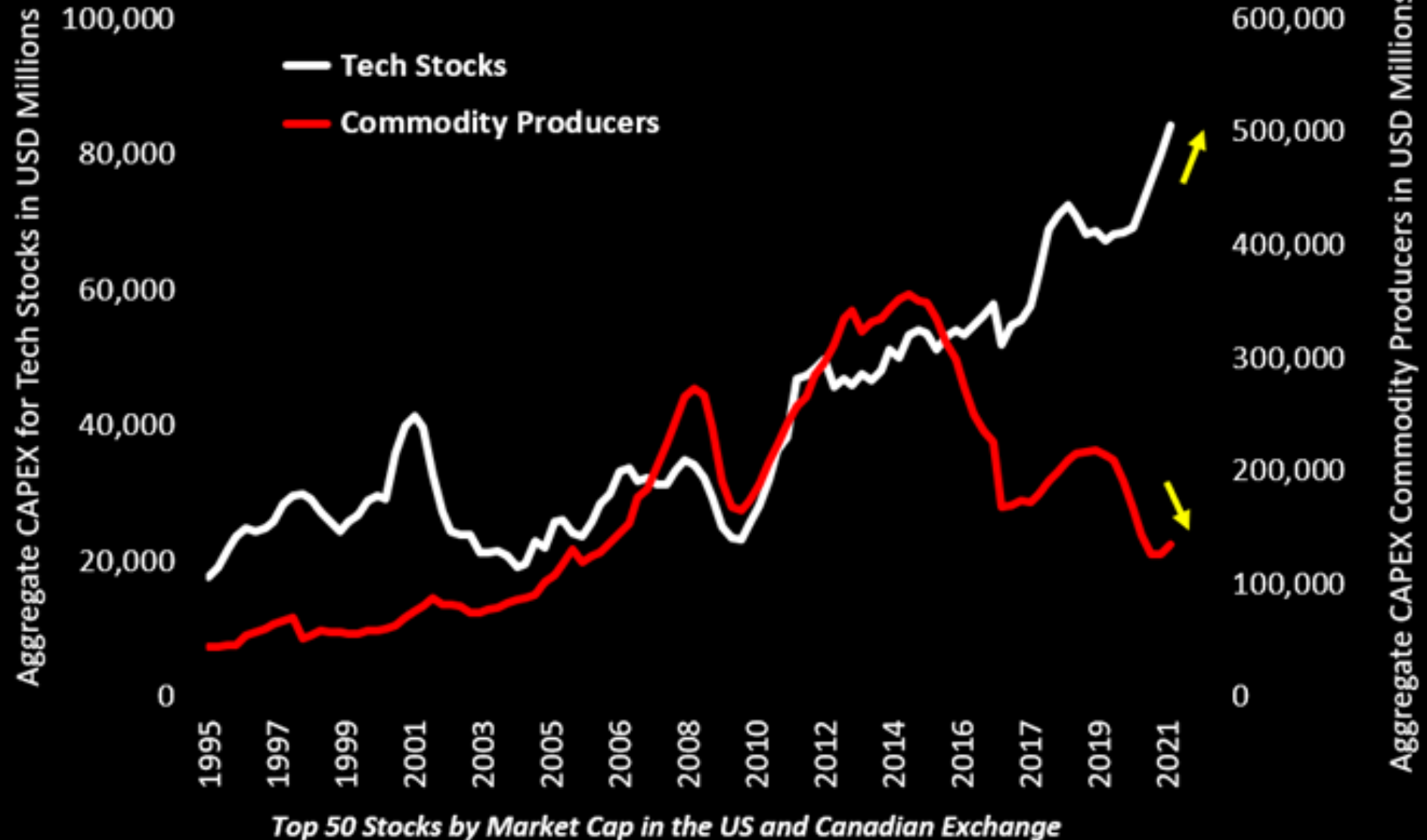
*Commodity Producers With Market Cap Above \$1B in the Canadian & US Stock Exchanges*

Source: Bloomberg

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# CAPEX Cycle: Tech Stocks vs. Commodity Producers

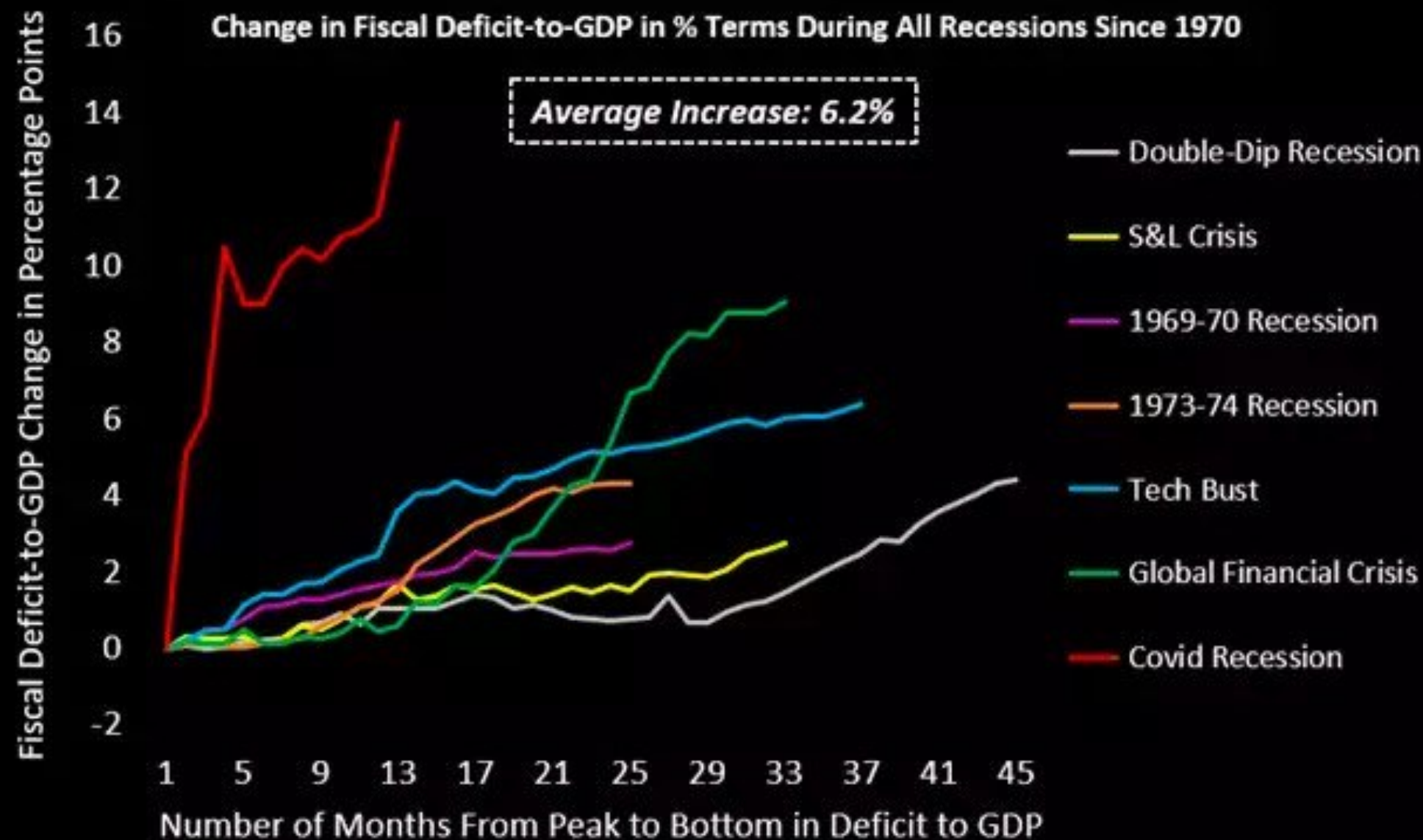
*Trailing 12-Months CAPEX in USD Millions*



Source: Bloomberg

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# Change in US Fiscal Deficit as a Result of Recessions



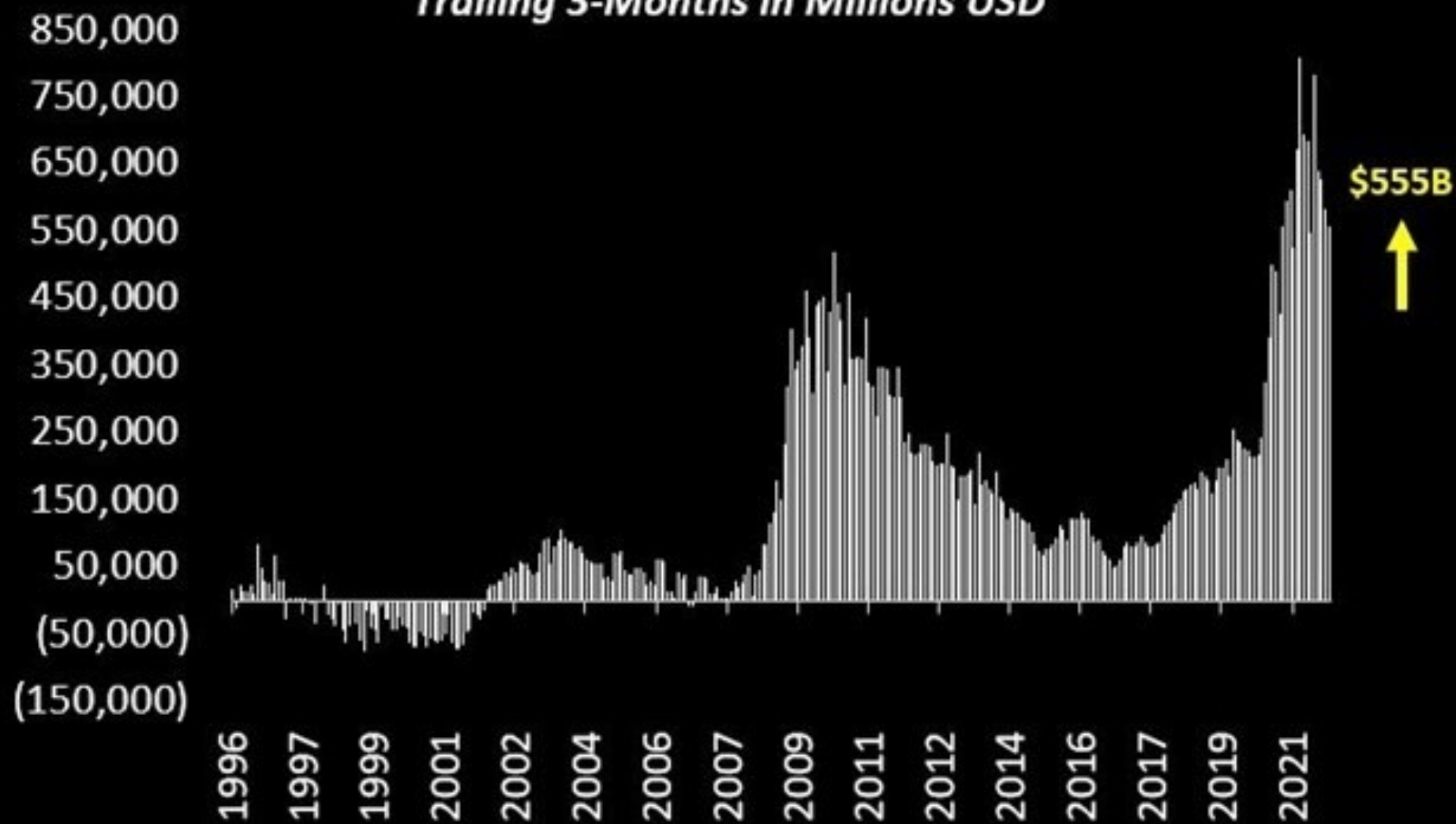
Source: Bloomberg

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# Issuances of Treasury Bonds & Notes

*Trailing 3-Months in Millions USD*

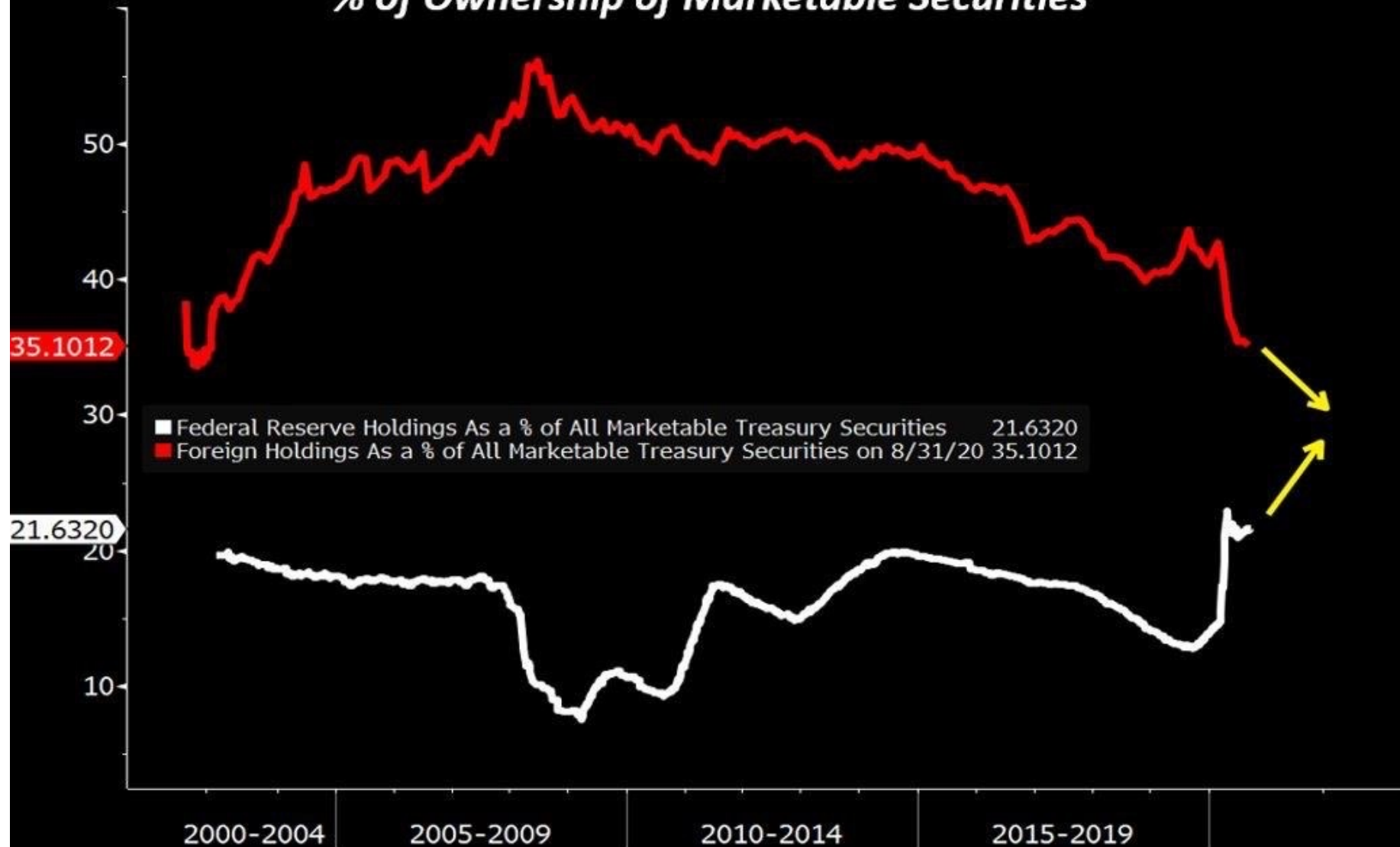


Source: Federal Reserve

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# US Treasury Holdings

*% of Ownership of Marketable Securities*



Source: Federal Reserve

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# Gold vs. Global Bonds



Source: Bloomberg

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## US 30-Year Yield (%)



Source: Bloomberg

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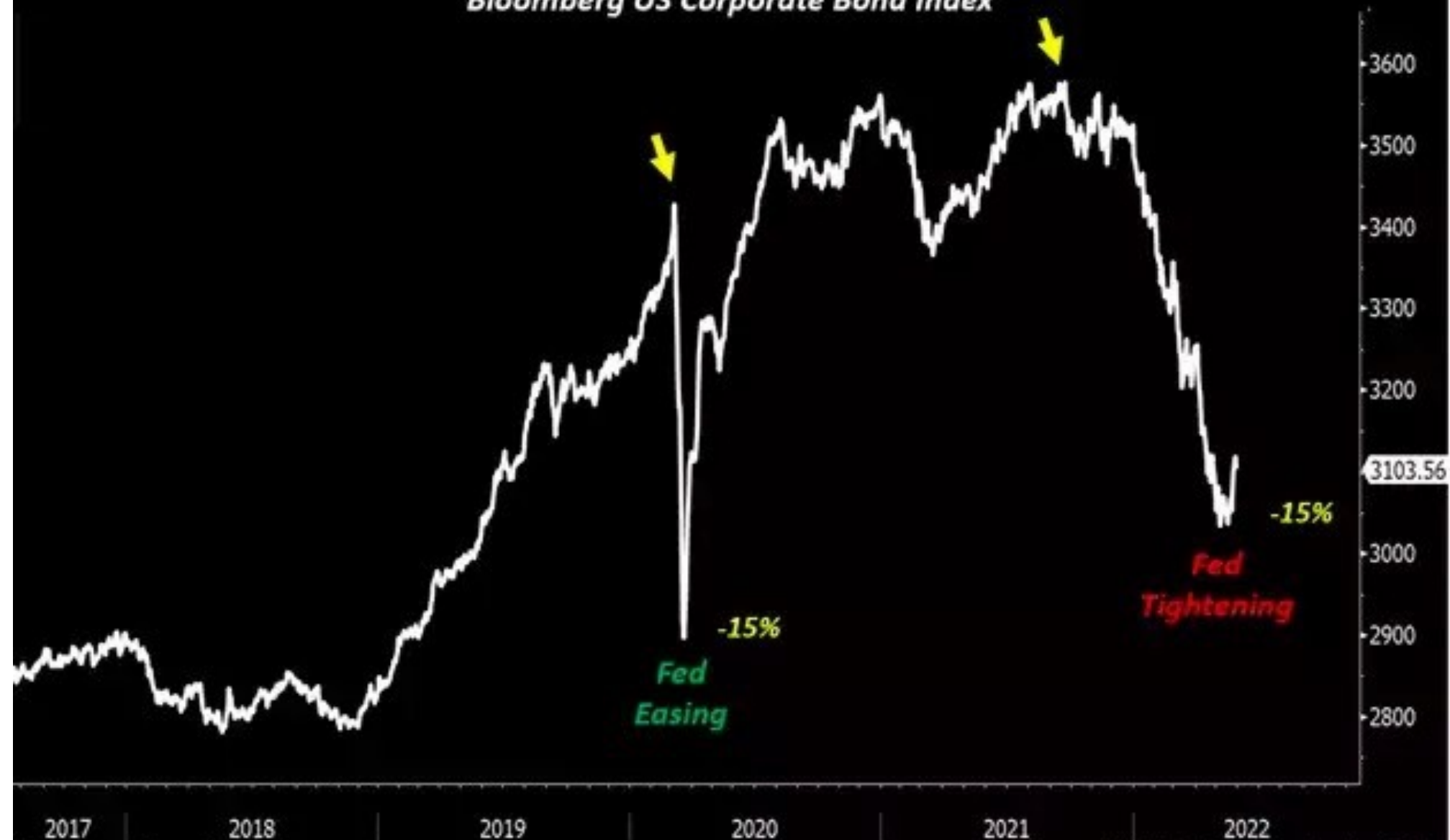
# MISPRICED COST OF CAPITAL

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# Corporate Bonds Total Return

*Bloomberg US Corporate Bond Index*

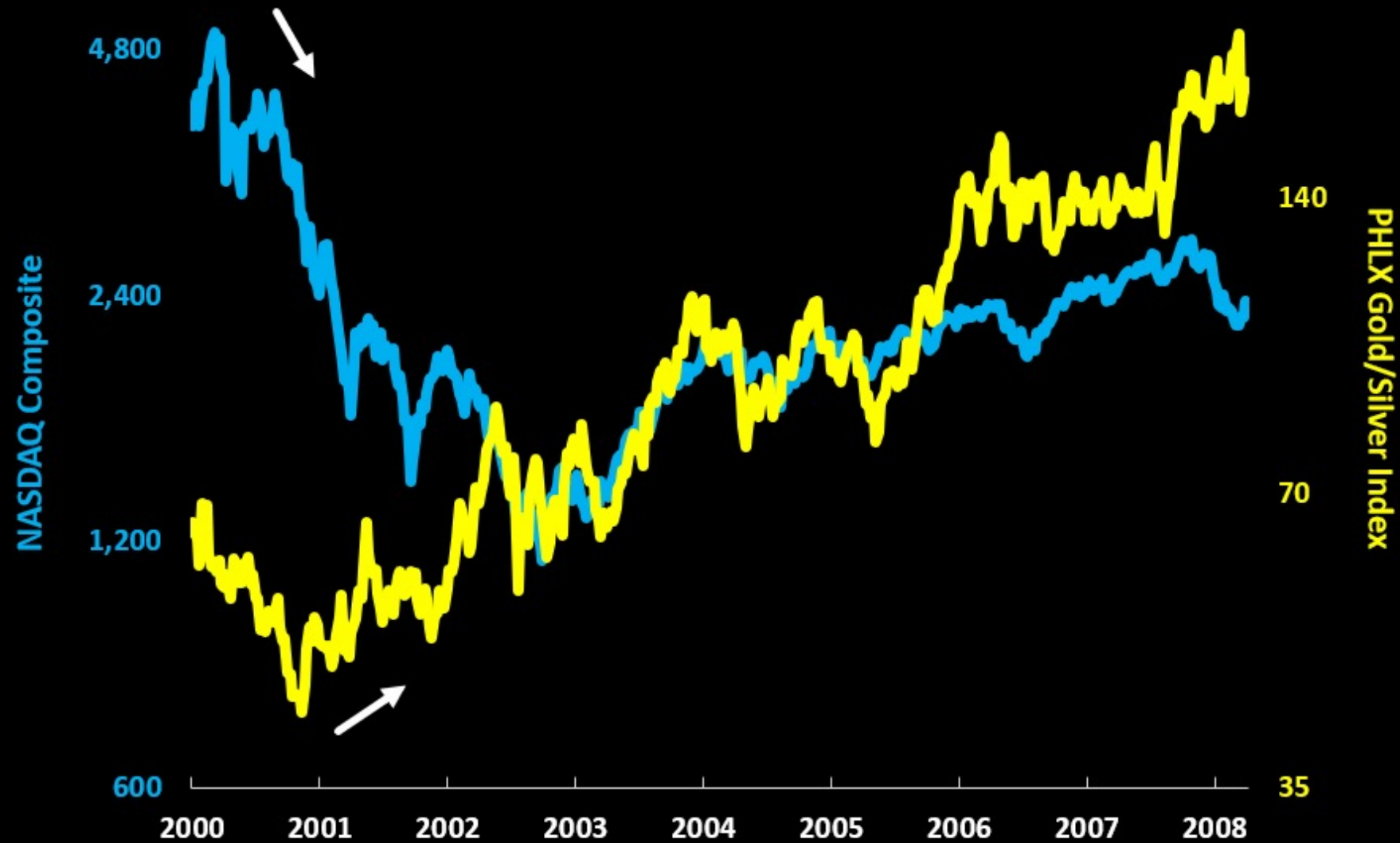


Source: Bloomberg

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# Tech Bust

*Philadelphia Gold and Silver Index vs. Nasdaq Composite*

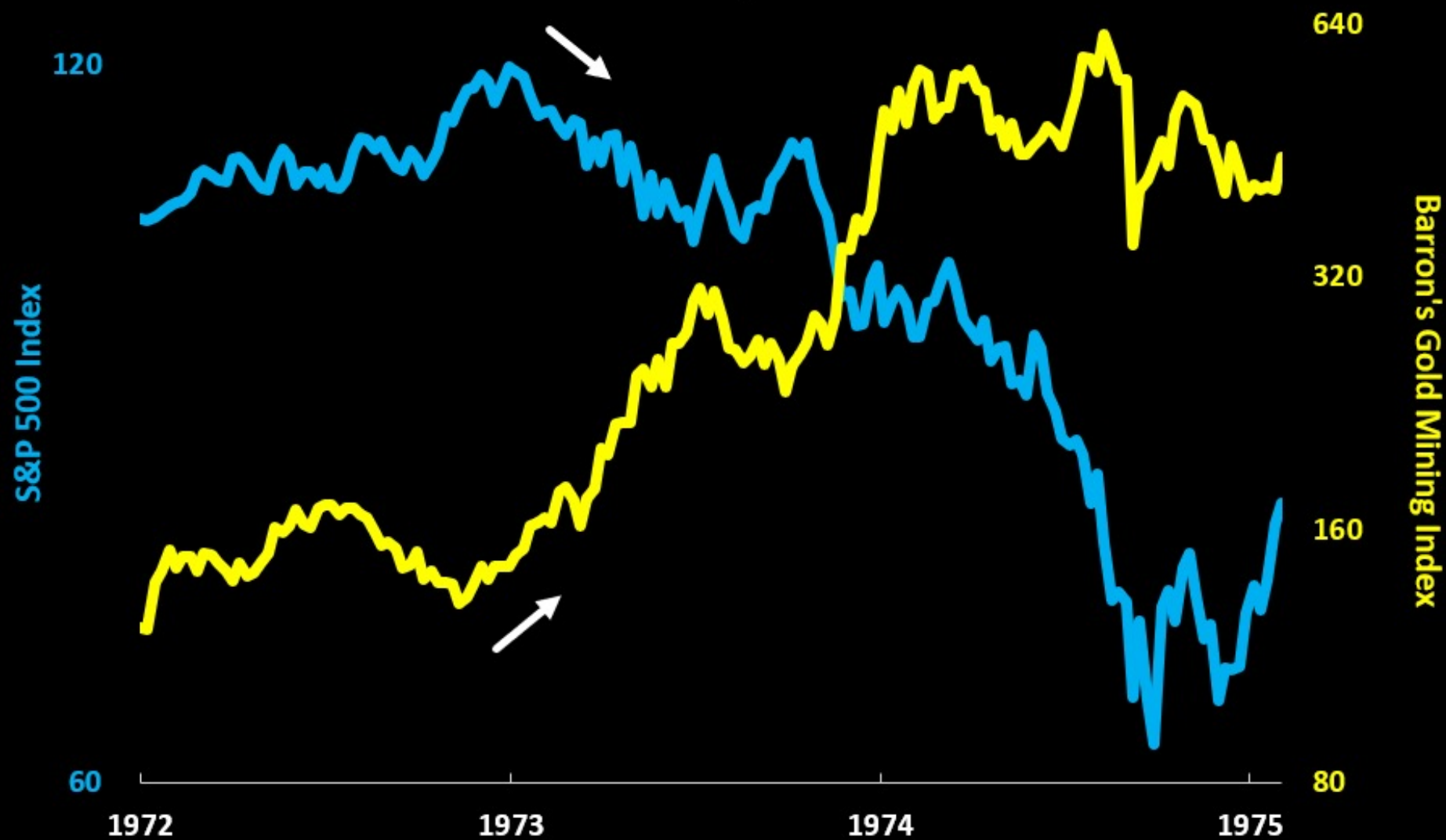


Source: Bloomberg

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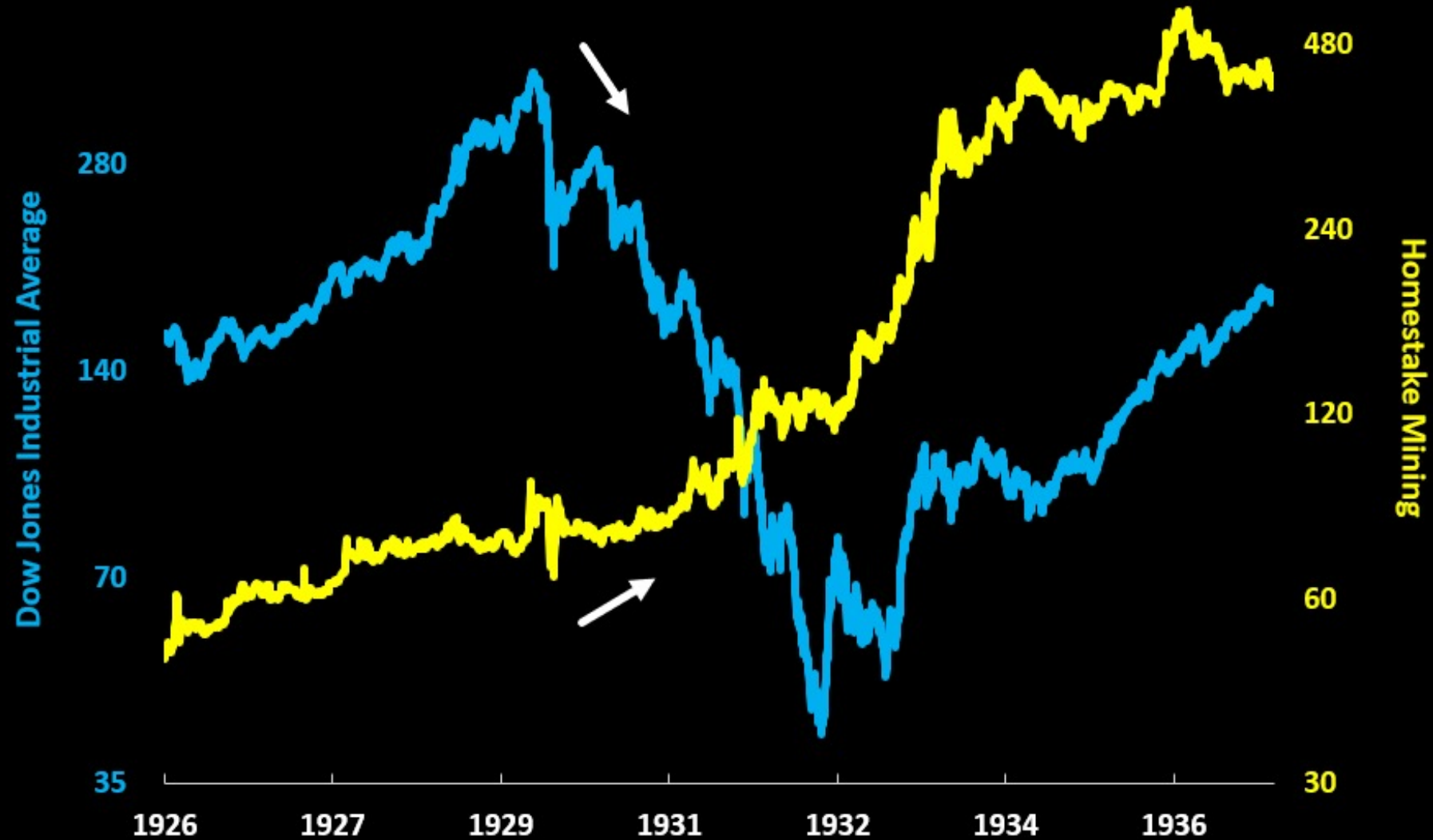
# Inflationary Recession of 1973-74

*Barron's Gold Mining Index vs. S&P 500*



# Great Depression

*Homestake Mining vs. Dow Jones*



Source: CRSP

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# MEGA CAP GROWTH CEILING

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# Growth vs. Value Stocks

Calculation:  $\text{Russell 1000 Growth} / \text{Russell 1000 Value}$



Source: Bloomberg

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# Tech Stocks: Real Free-Cash-Flow Yield

*Aggregate Free-Cash-Flow Yield Minus CPI YoY Change*



Source: Bloomberg

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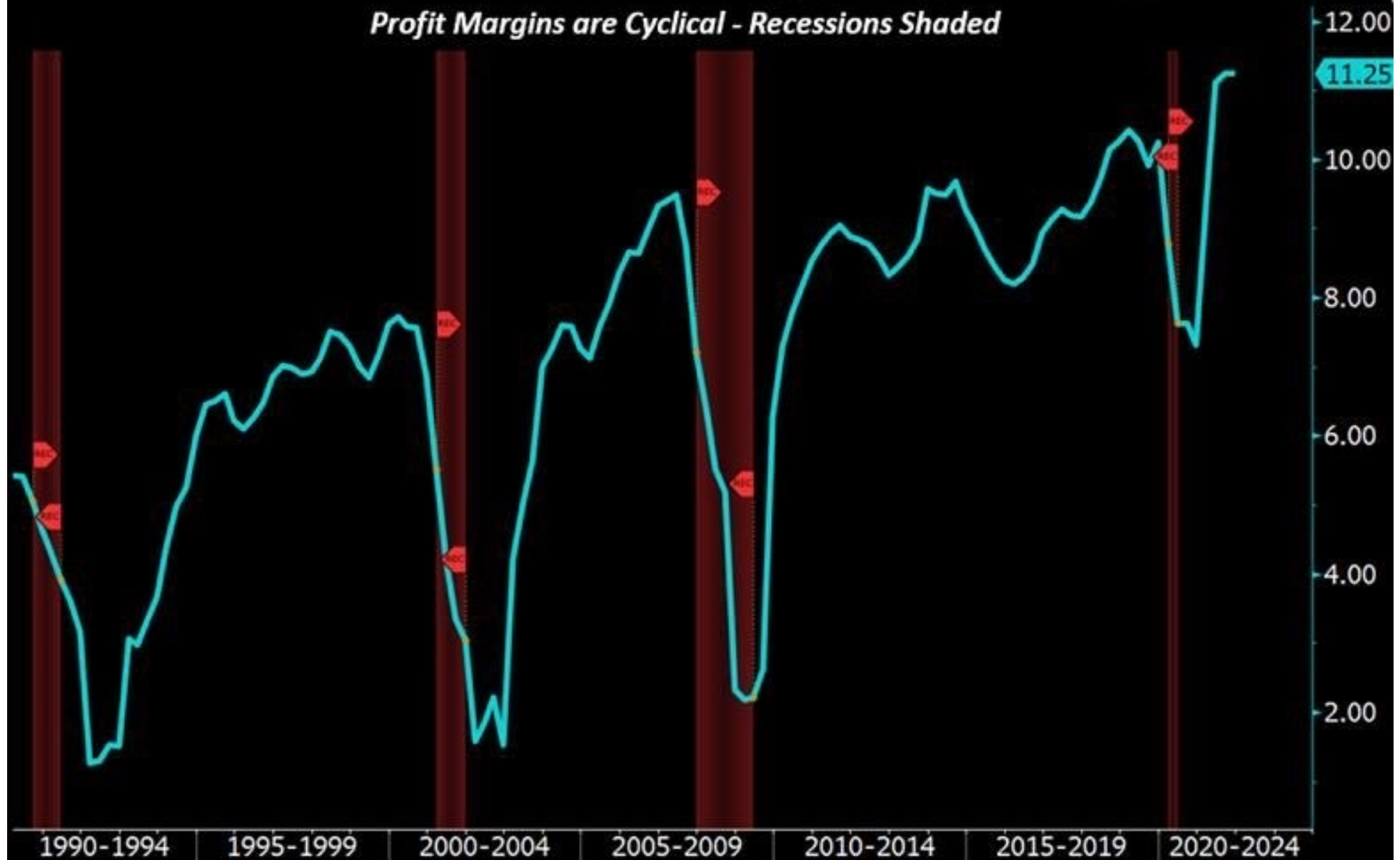
# Russell 1000 Growth vs. Value

*Relative Price to Book*



# S&P 500 Net Profit Margins (Trailing 12m)

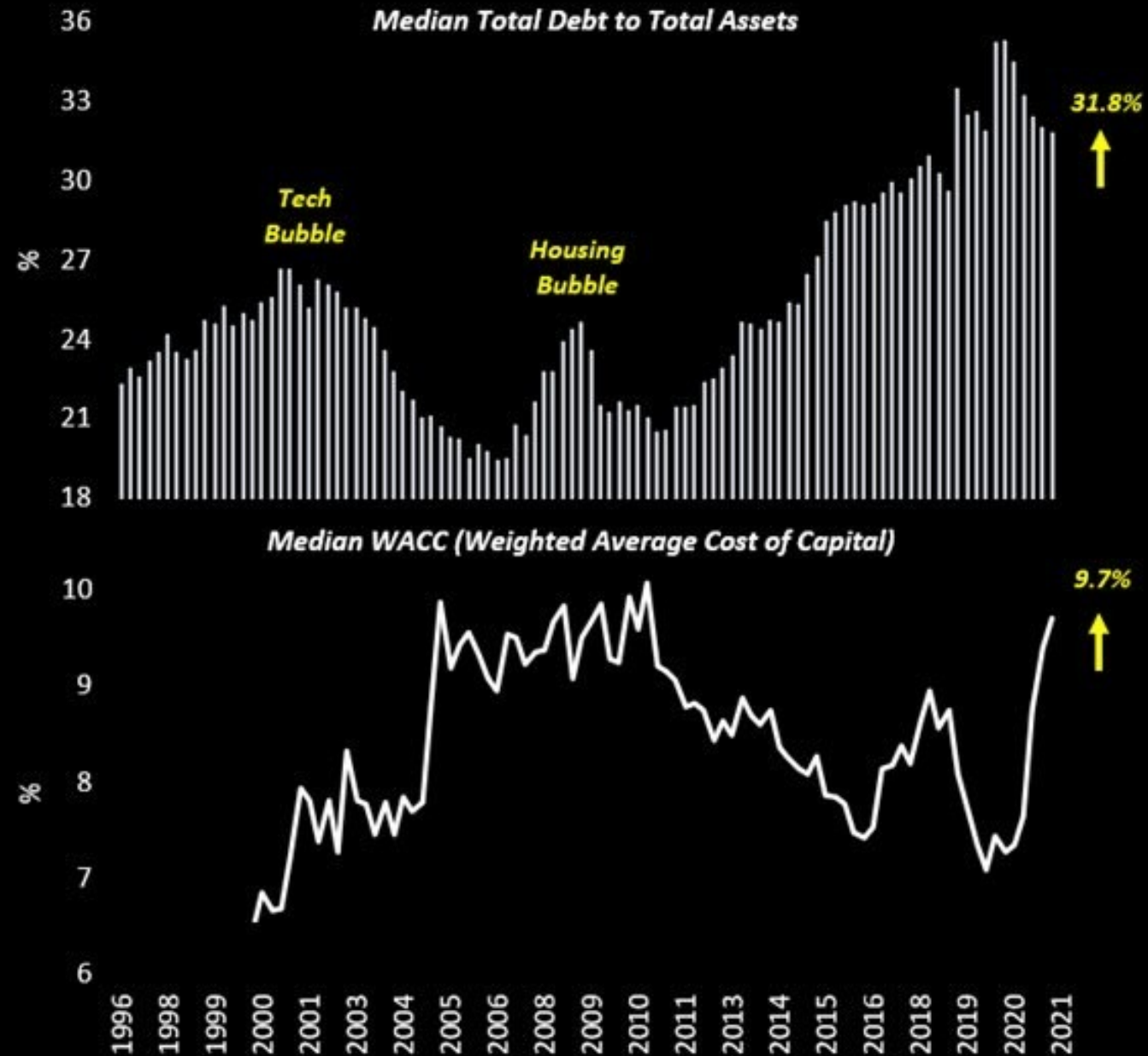
*Profit Margins are Cyclical - Recessions Shaded*



Source: Bloomberg

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# S&P 500 Index



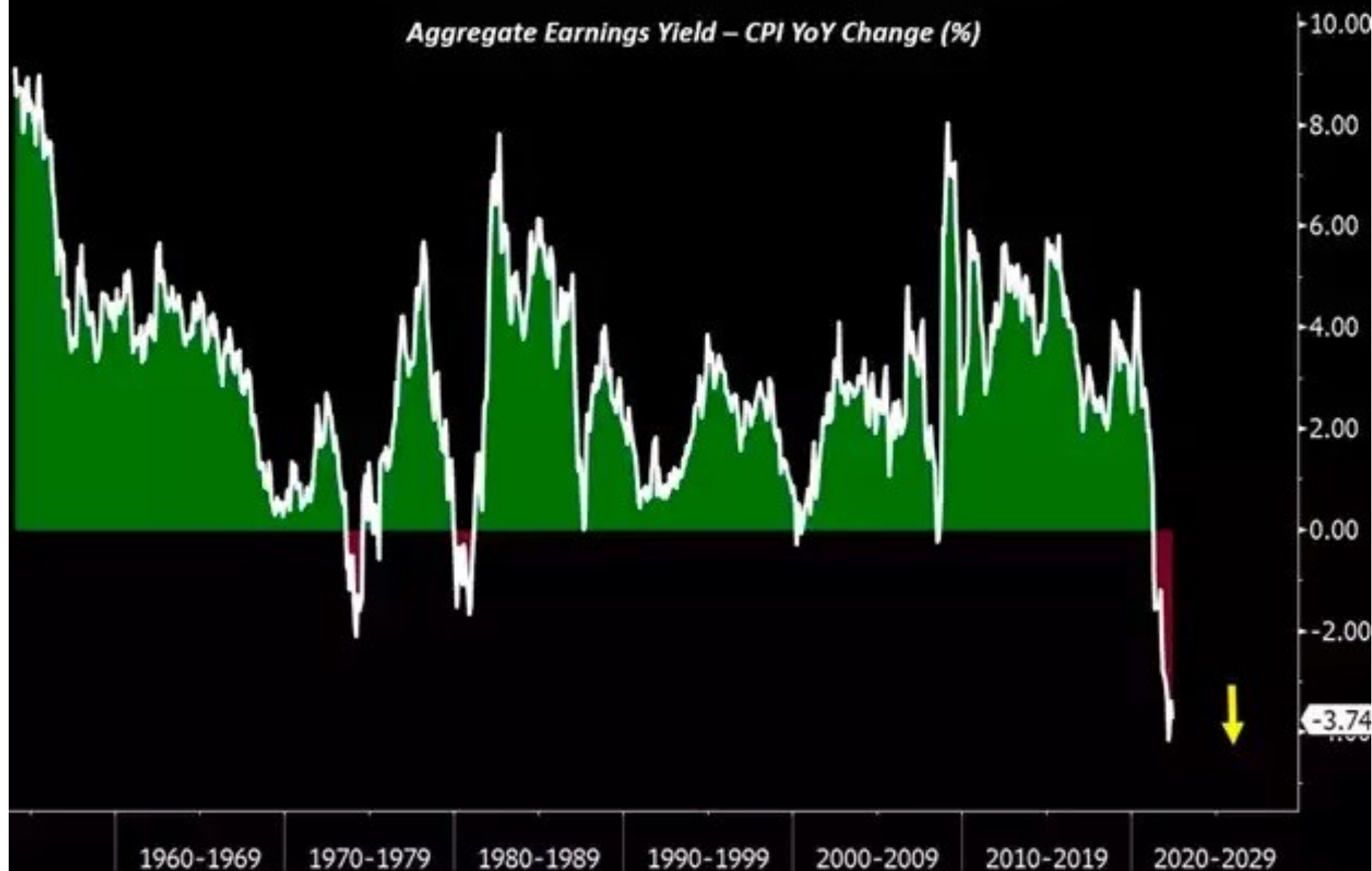
Source: Bloomberg

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# S&P 500 Real Earnings Yield

*Aggregate Earnings Yield – CPI YoY Change (%)*



Source: Bloomberg

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# Software Stocks-to-S&P 500 Ratio

\$XSW ETF / \$SPY ETF

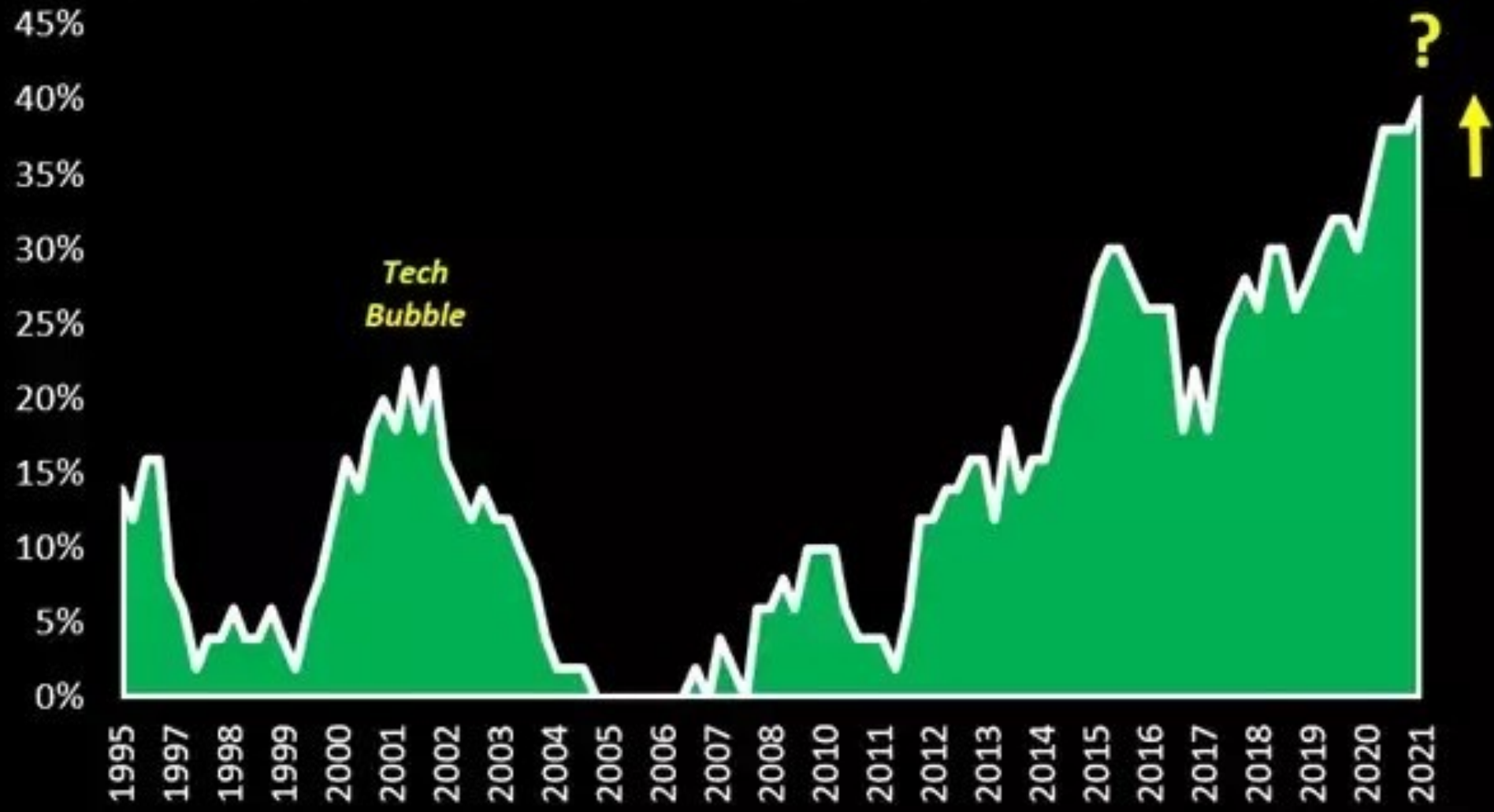


Source: Bloomberg

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# % of Non-Profitable Software Stocks

*Top 50 Software Stocks With or Above \$1B Market Cap in the US Stock Exchanges*



Source: Bloomberg

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# S&P 500 Sectors: Performance Since The Pandemic Lows

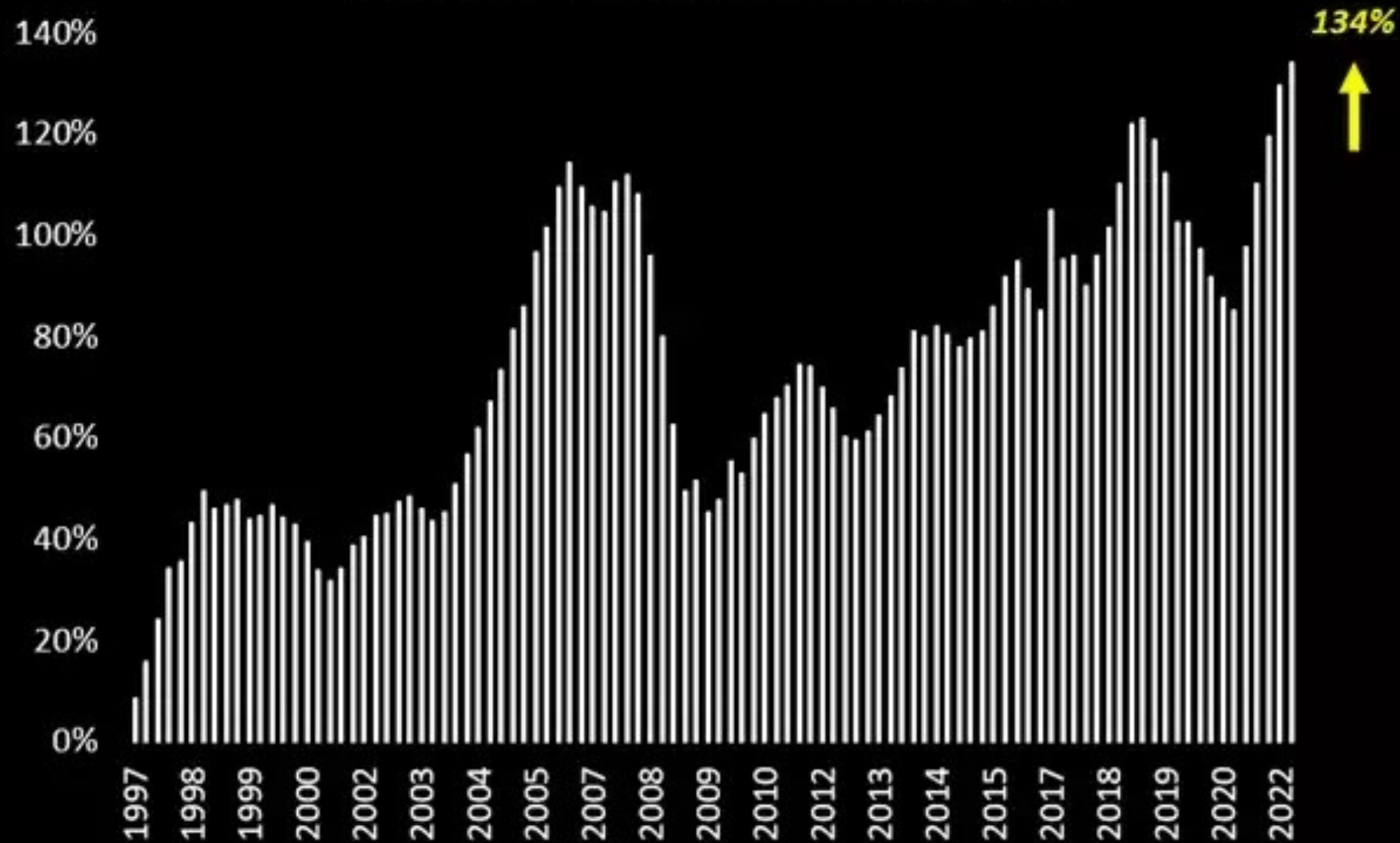


Source: Bloomberg

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# S&P 500 Index

*Annual Share Buybacks As a % of CAPEX*

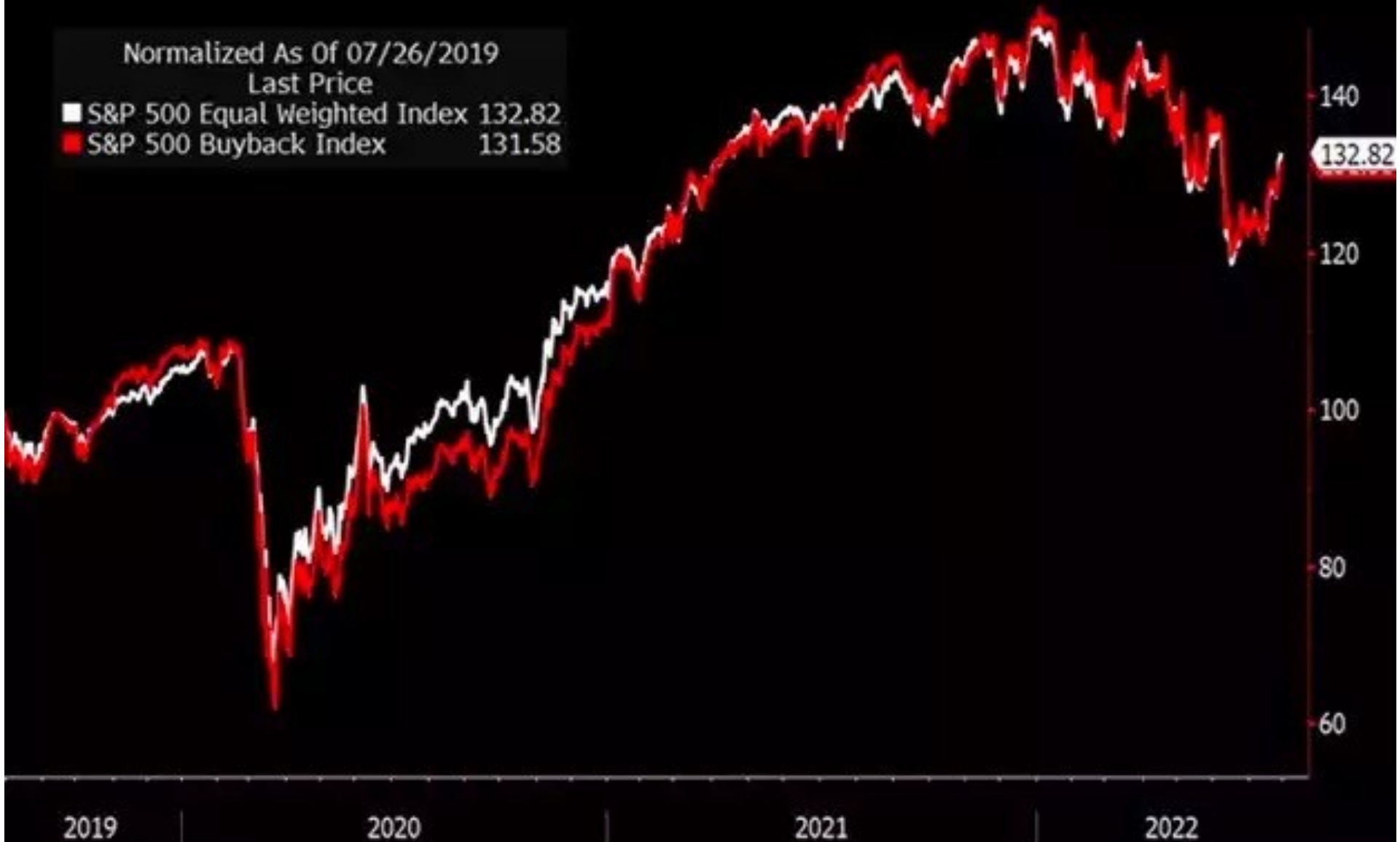


Source: Bloomberg

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# S&P 500 Buyback vs. Equal Weighted Index





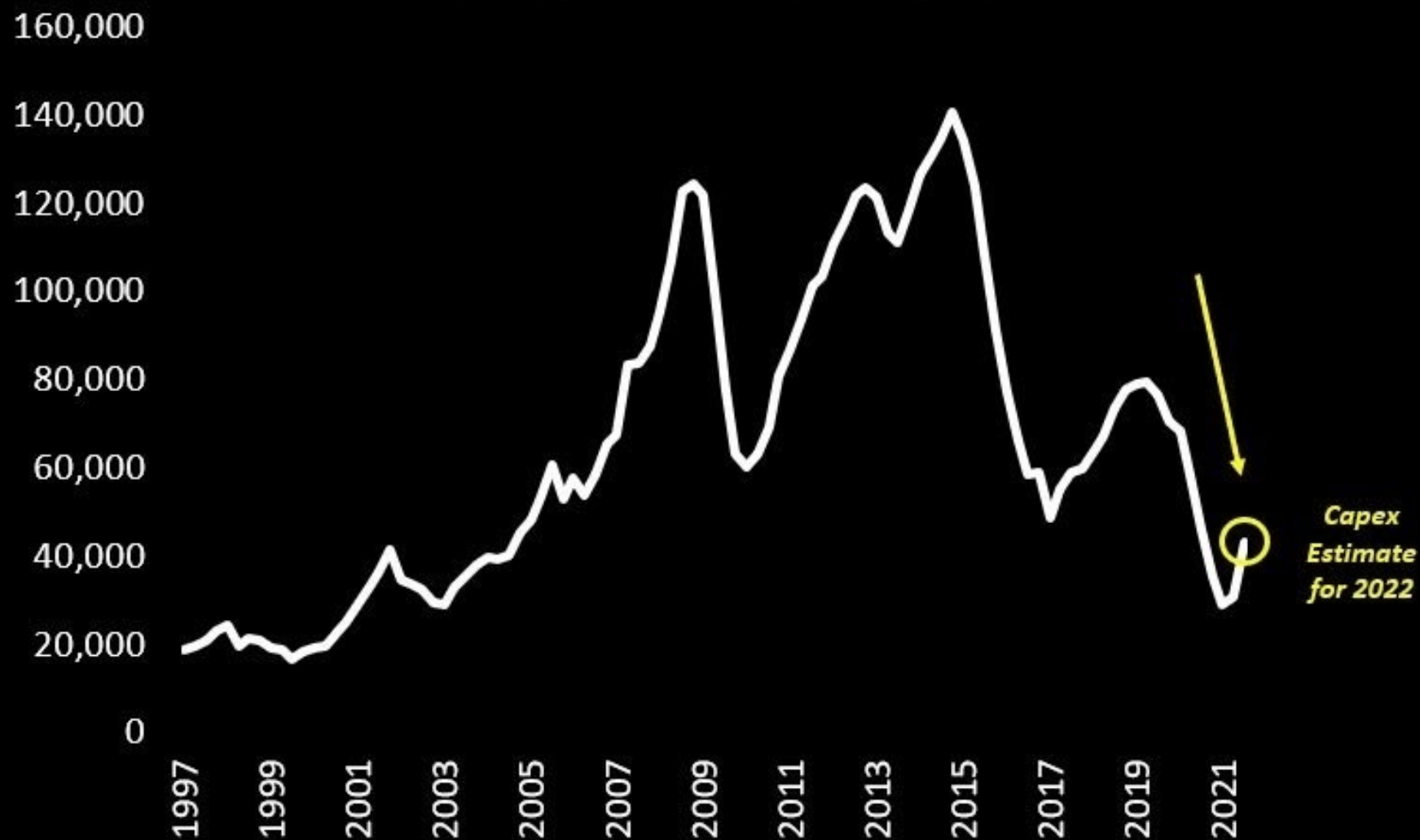
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# ENERGY TRANSITION

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# US Oil and Gas Exploration & Production

*Aggregate Capex in USD Millions*



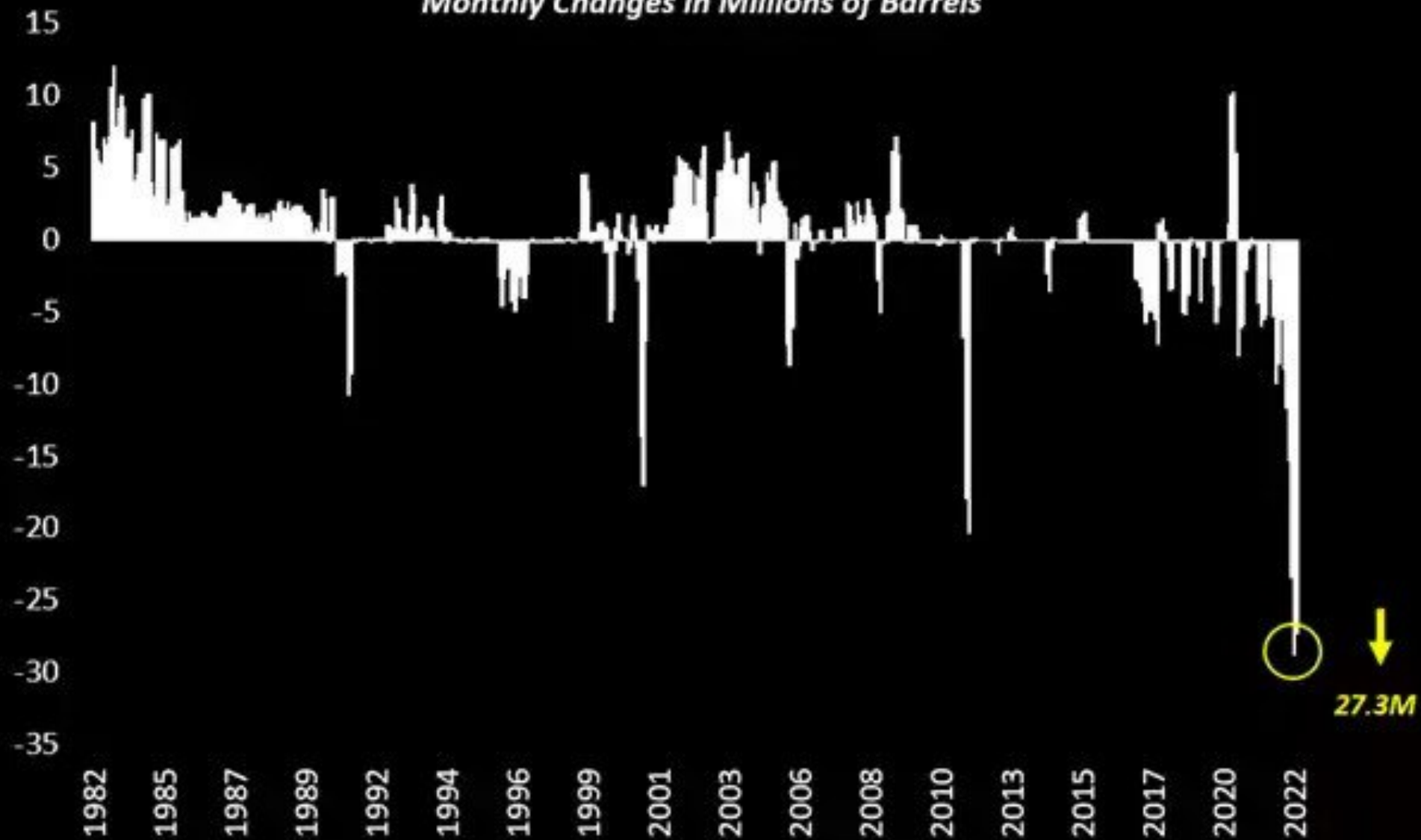
*Top 50 E&Ps by Enterprise Value in the US Stock Exchanges*

Source: Bloomberg

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# US Strategic Petroleum Reserves

*Monthly Changes in Millions of Barrels*



Source: Bloomberg

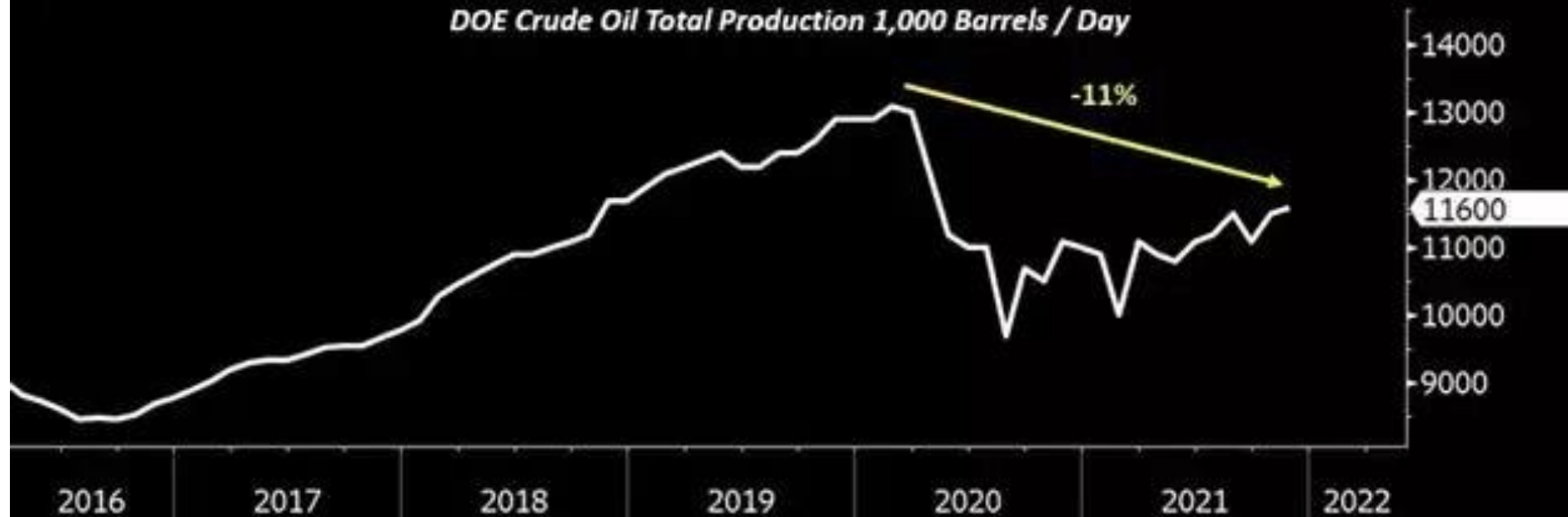
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# US GDP vs. Oil Production

*Nominal GDP*



*DOE Crude Oil Total Production 1,000 Barrels / Day*



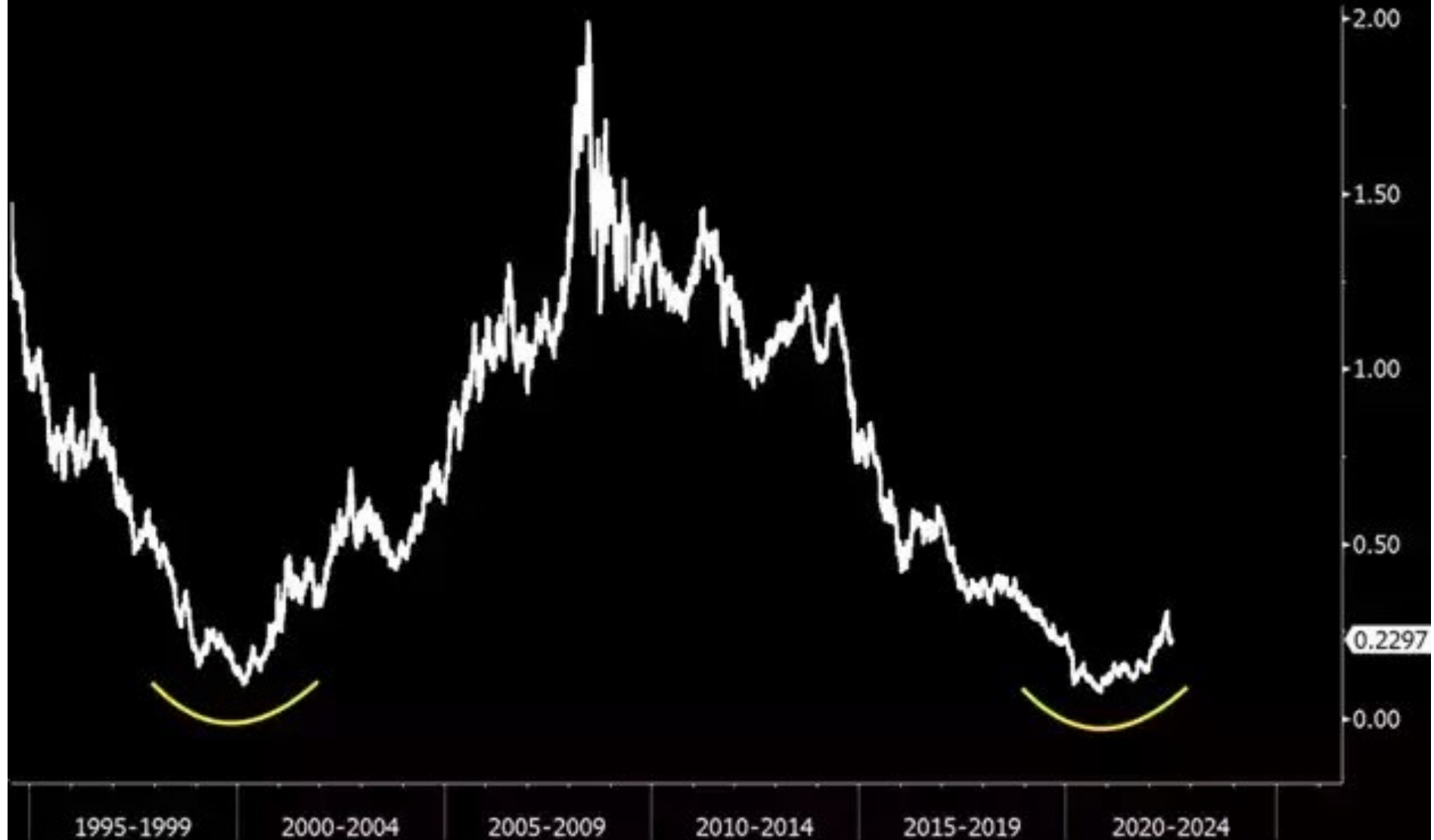
Source: Bloomberg

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# Oil and Gas E&Ps-to-Tech Stocks Ratio

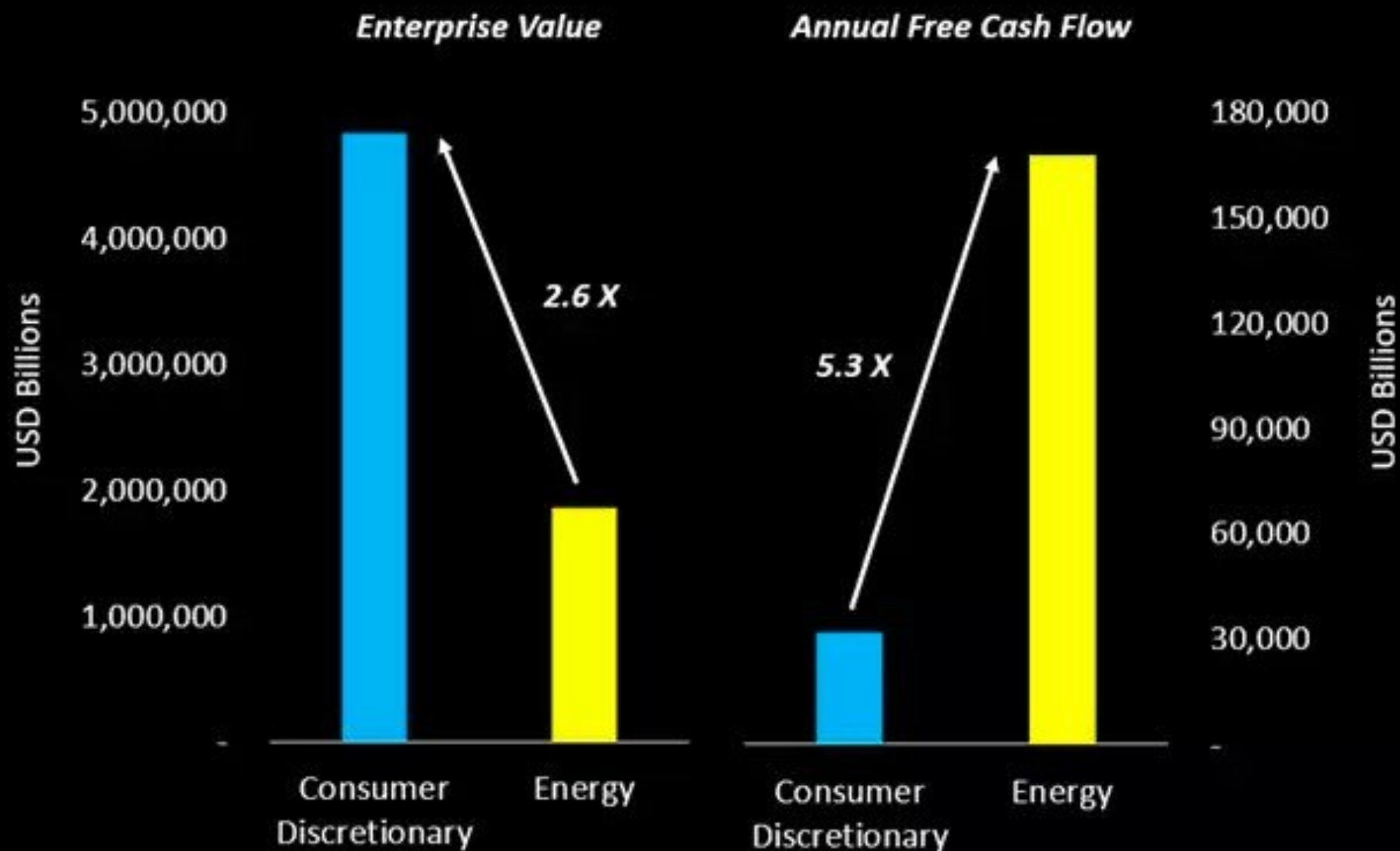
*S&P 500 Oil & Gas Exploration and Production / S&P 500 Information Technology Sector*



Source: Bloomberg

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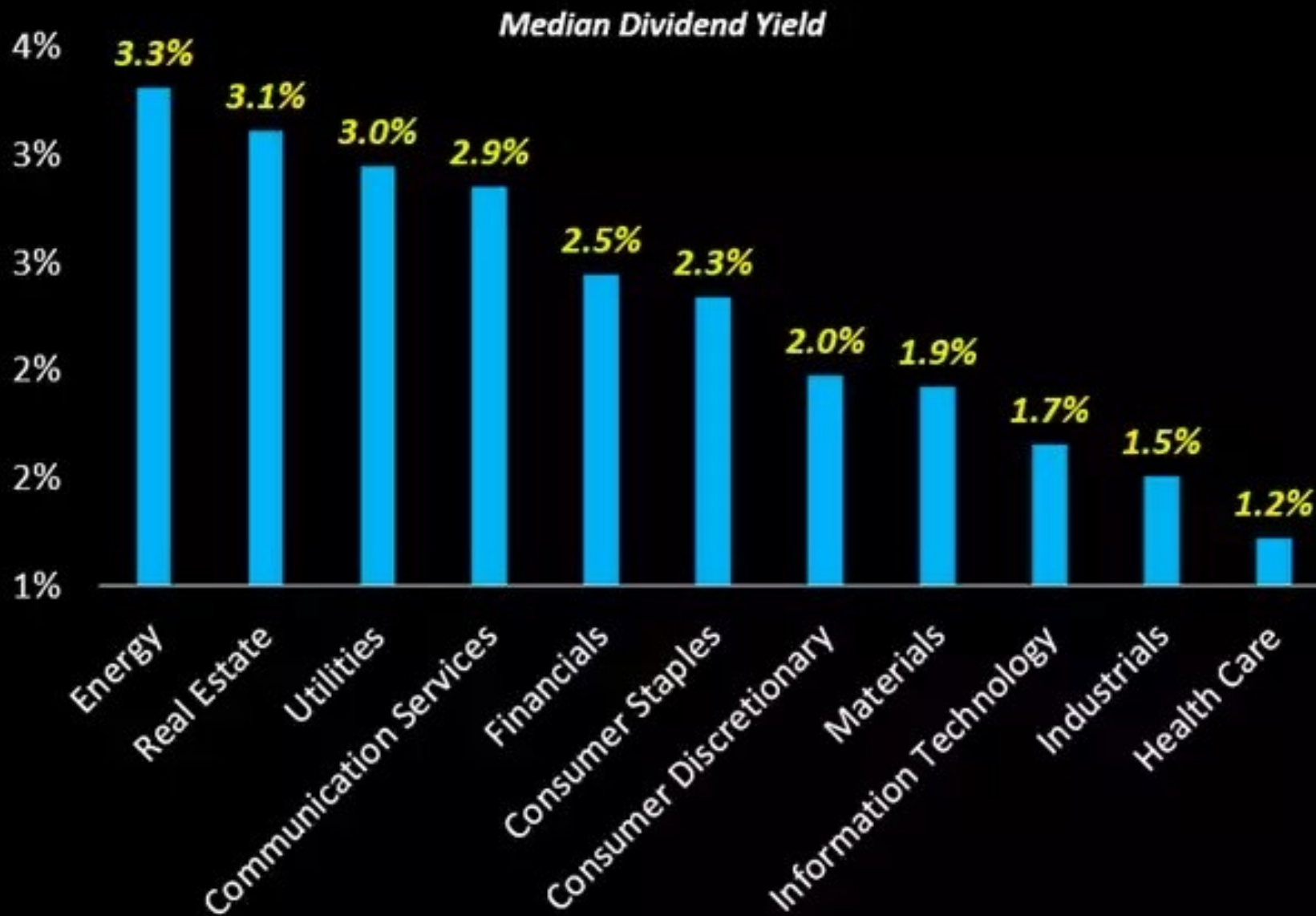
# S&P 500: Energy vs. Consumer Discretionary



Source: Bloomberg

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# Dividend Yield by S&P 500 Sector



Source: Bloomberg

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# Energy E&Ps-to-Oil Ratio

$\$XOP\text{ ETF} / \$OIL\text{ ETF}$



Source: Bloomberg

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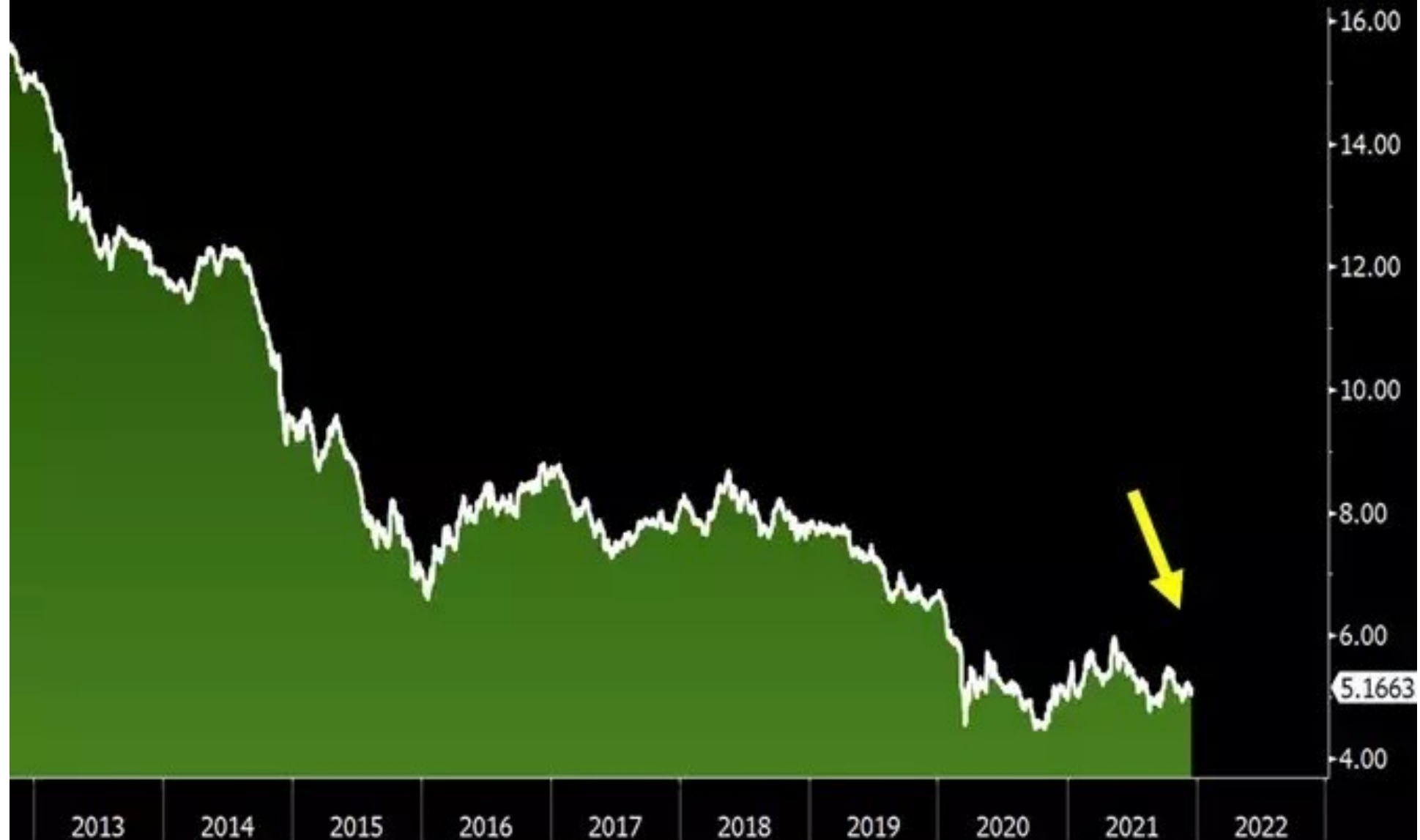
# RESOURCE UNDERINVESTMENT

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# Commodity Producers Relative to Global Equities (%)

*Aggregate Market Cap Ratio: MSCI ACWI Commodity Producers Index / MSCI World Index*



Source: Bloomberg

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# Natural Gas



Source: Bloomberg

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# Natural Gas vs. Ammonia Prices



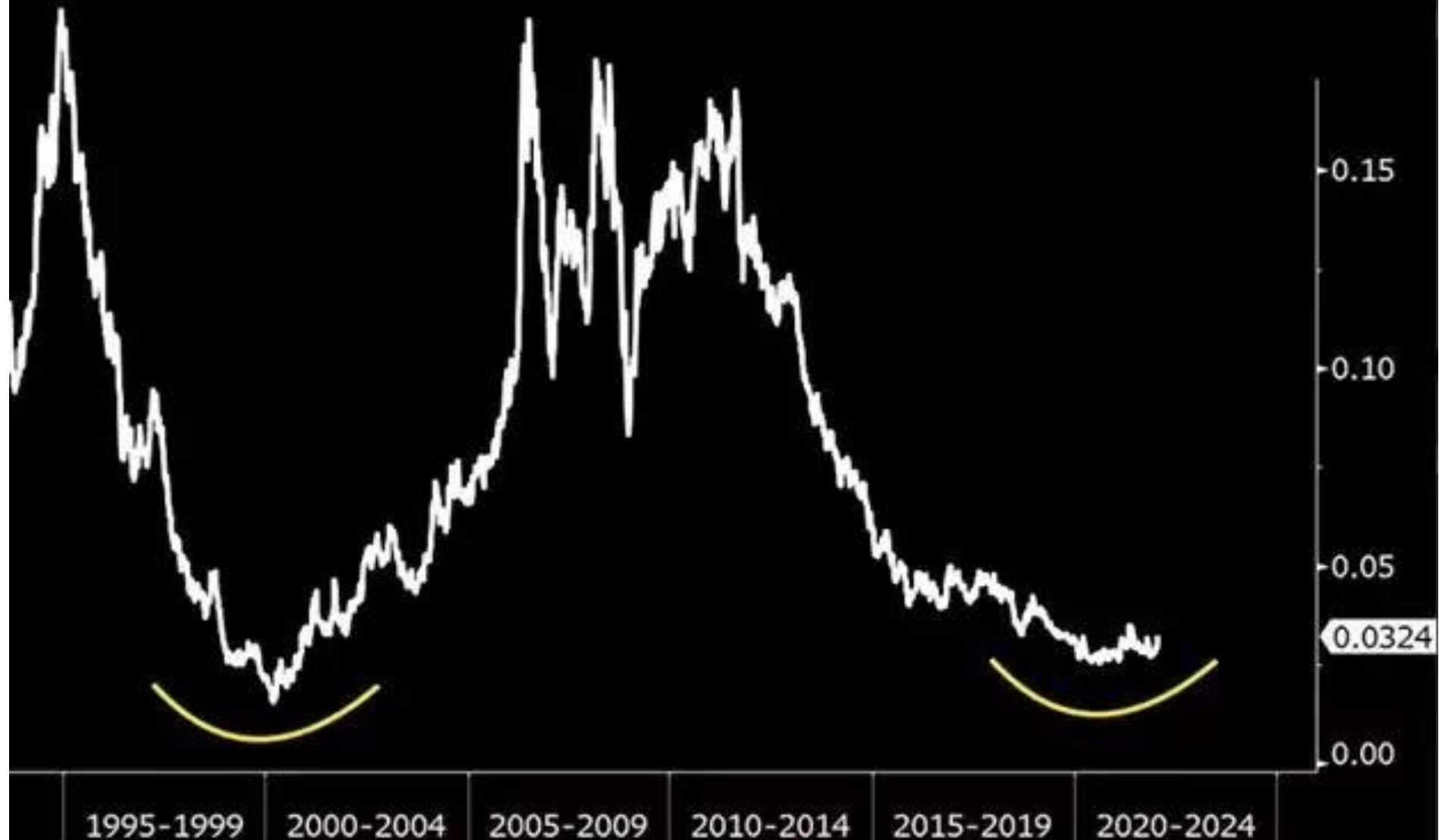
Source: Bloomberg

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# S&P GSCI Equal-Weight Commodity Index



# Copper-to-Nasdaq Ratio



Source: Federal Reserve

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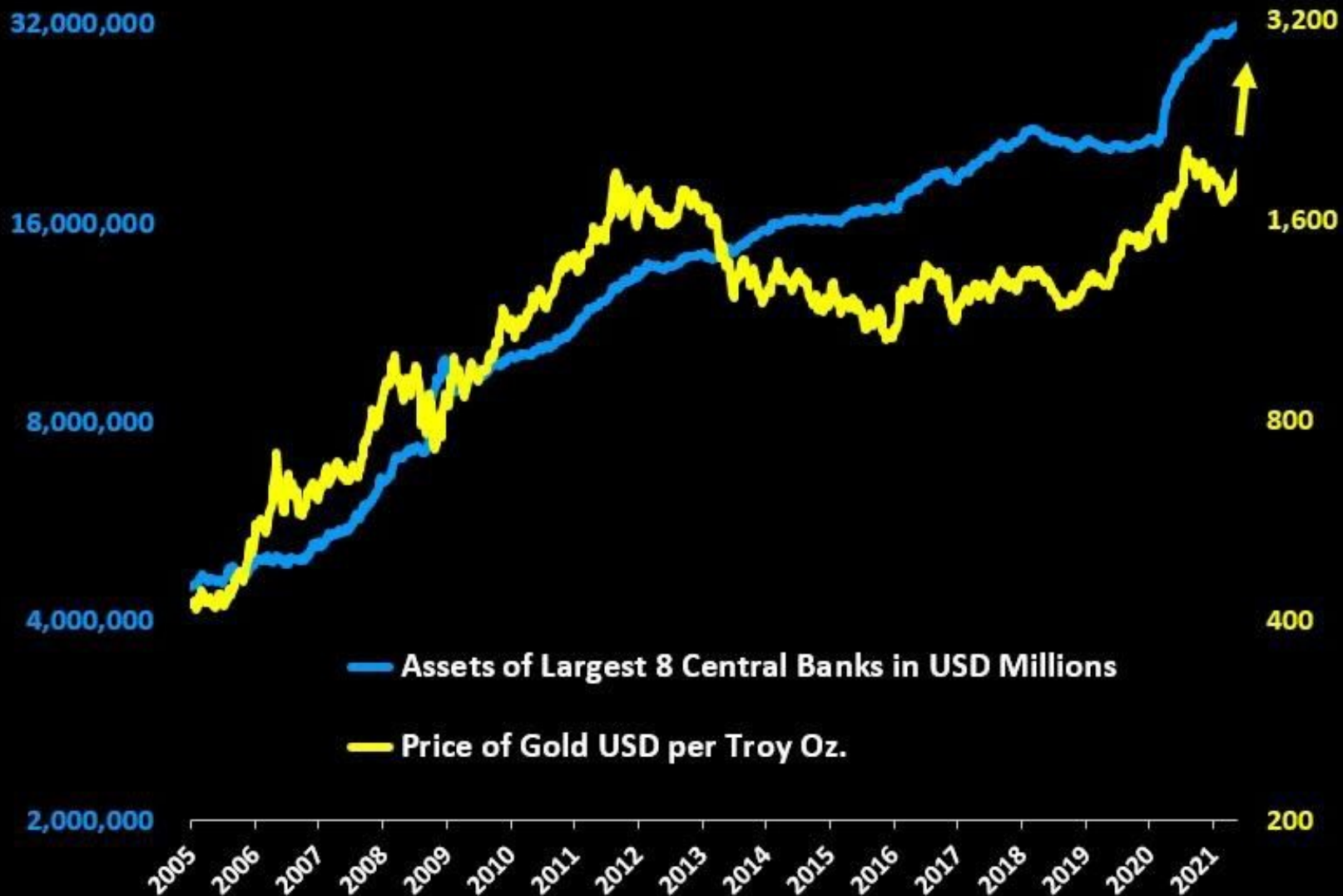


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# GLOBAL FIAT CURRENCY DEBASEMENT

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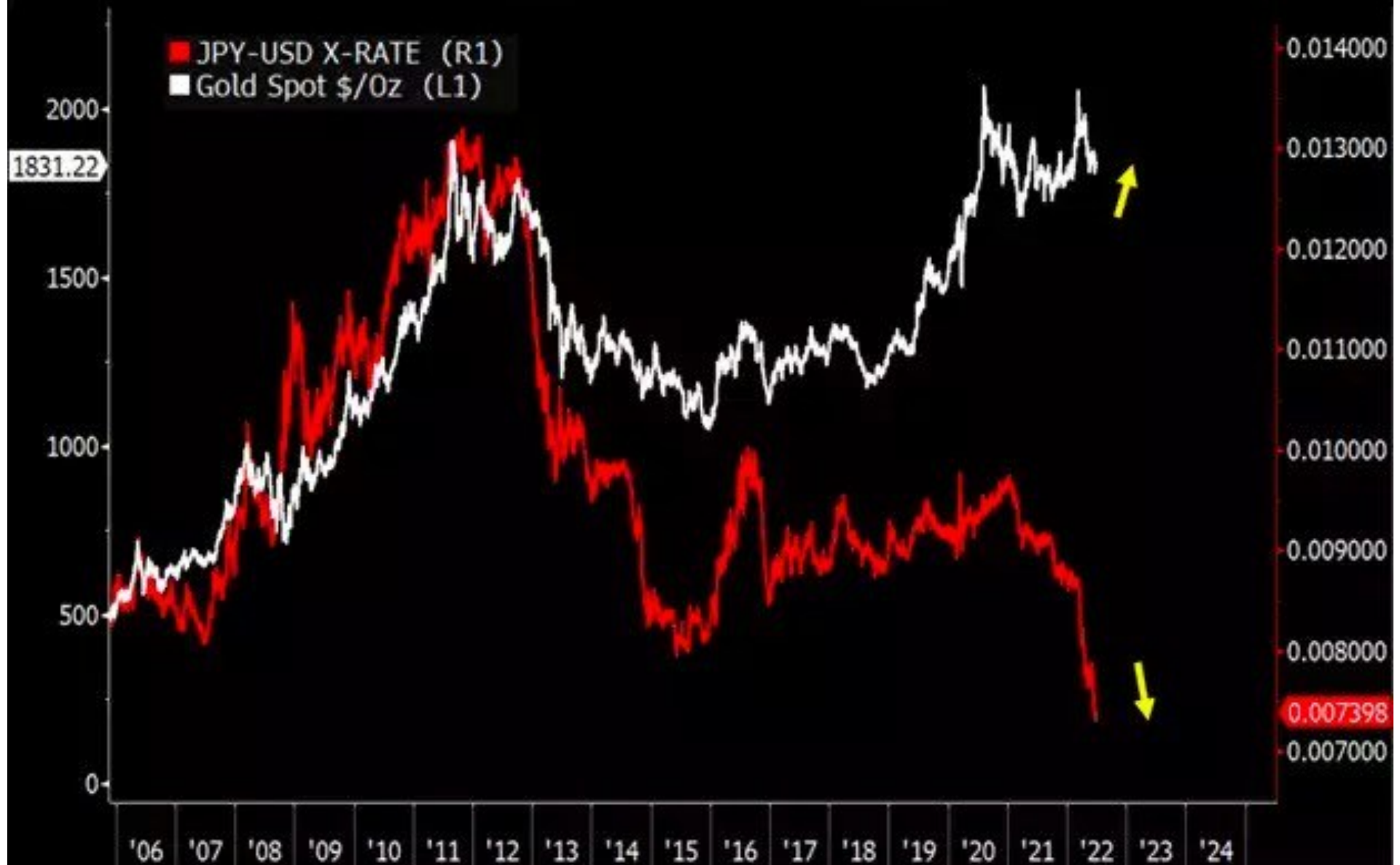
# Global Central Bank Assets vs. Gold



Source: Bloomberg, Central Banks

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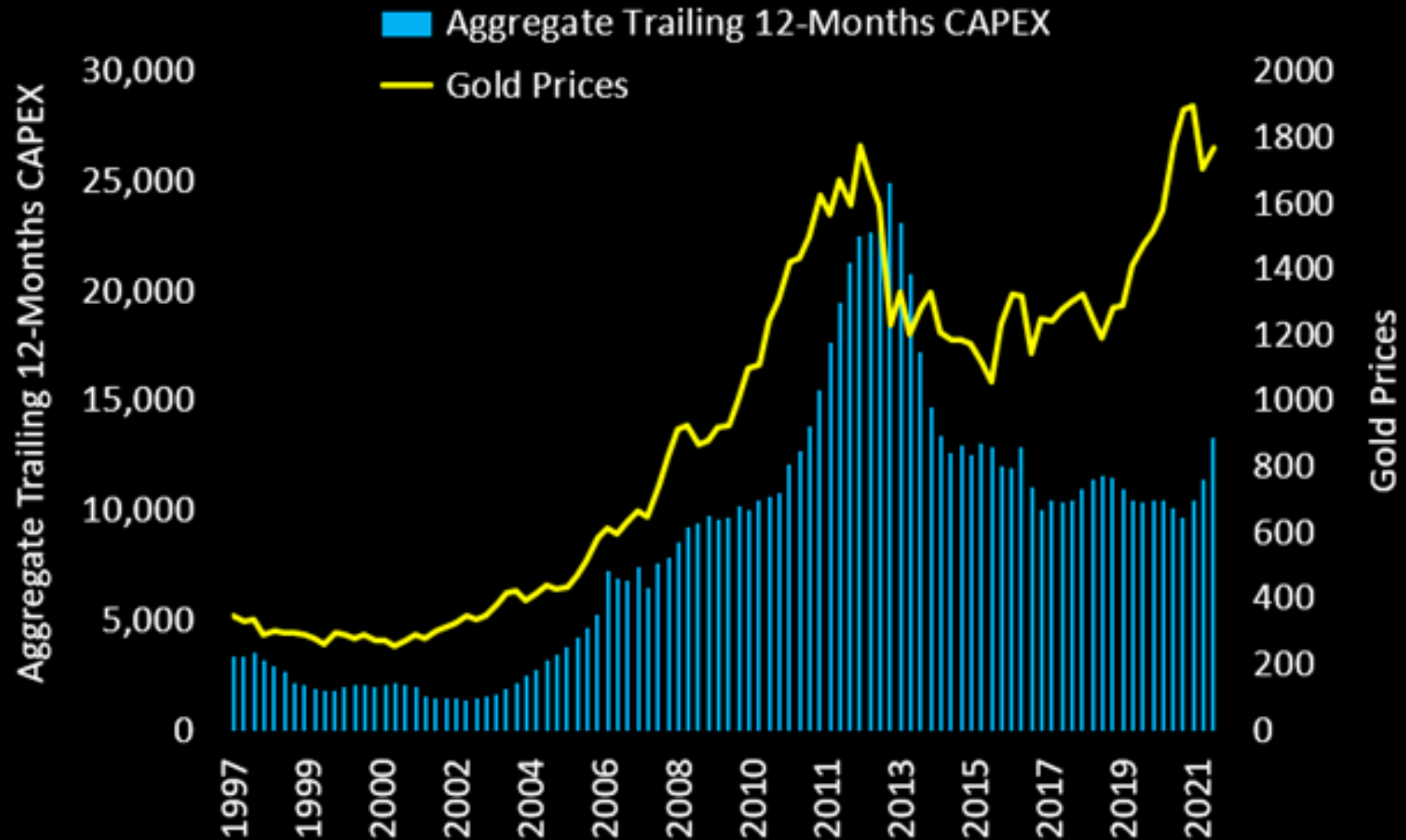
# Japanese Yen vs. Gold



Source: Bloomberg

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# Gold & Silver Miners Capex Cycle



*Top 50 Miners by Market Cap in the Canadian & US Stock Exchanges*

Source: Bloomberg

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# Silver Miners CAPEX Cycle

*Aggregate Trailing 12-Month CAPEX in USD Millions*



Source: Bloomberg

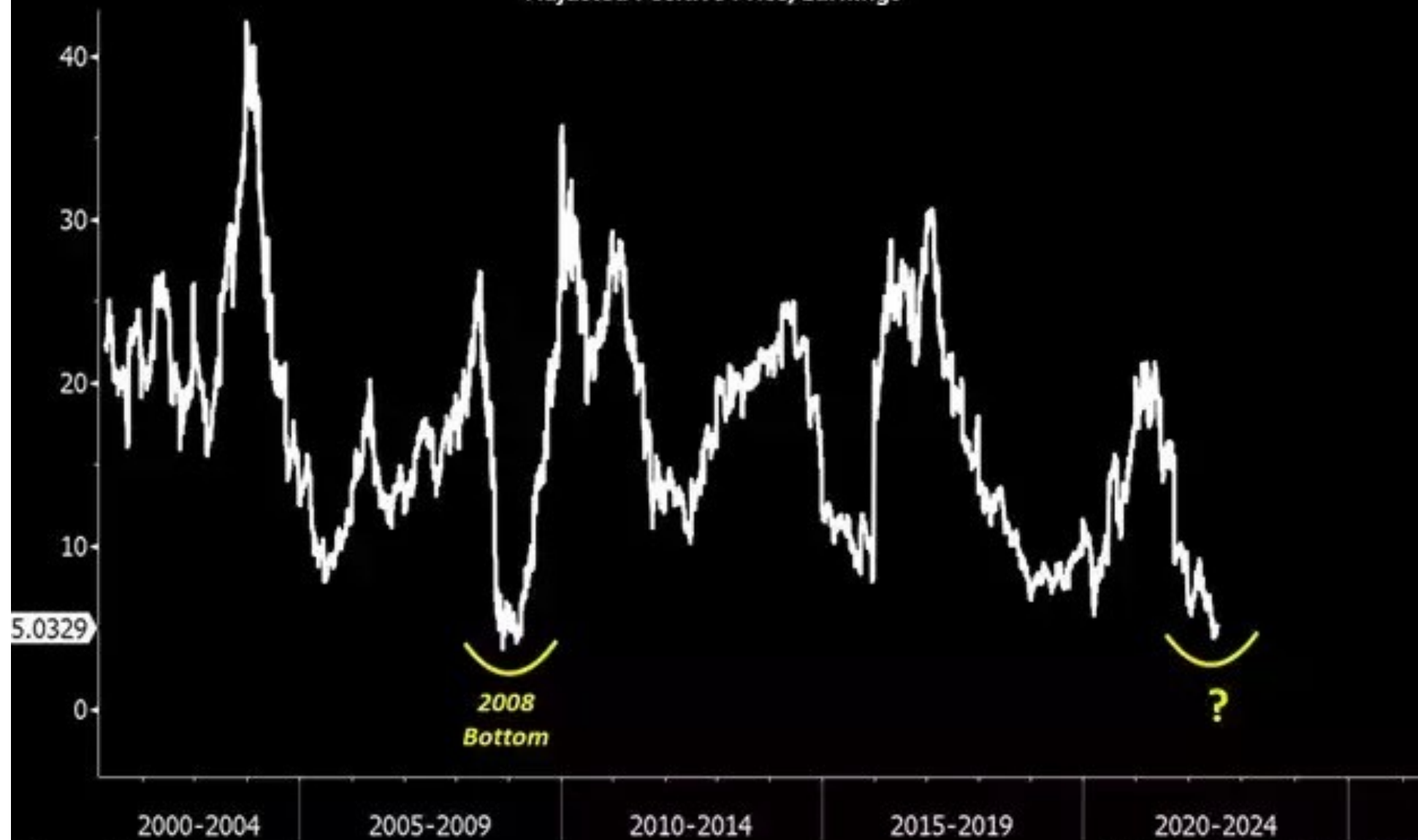
Universe: All Members of the SIJ ETF

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# S&P 500 Metals & Mining Index

*Adjusted Positive Price/Earnings*



Source: Bloomberg

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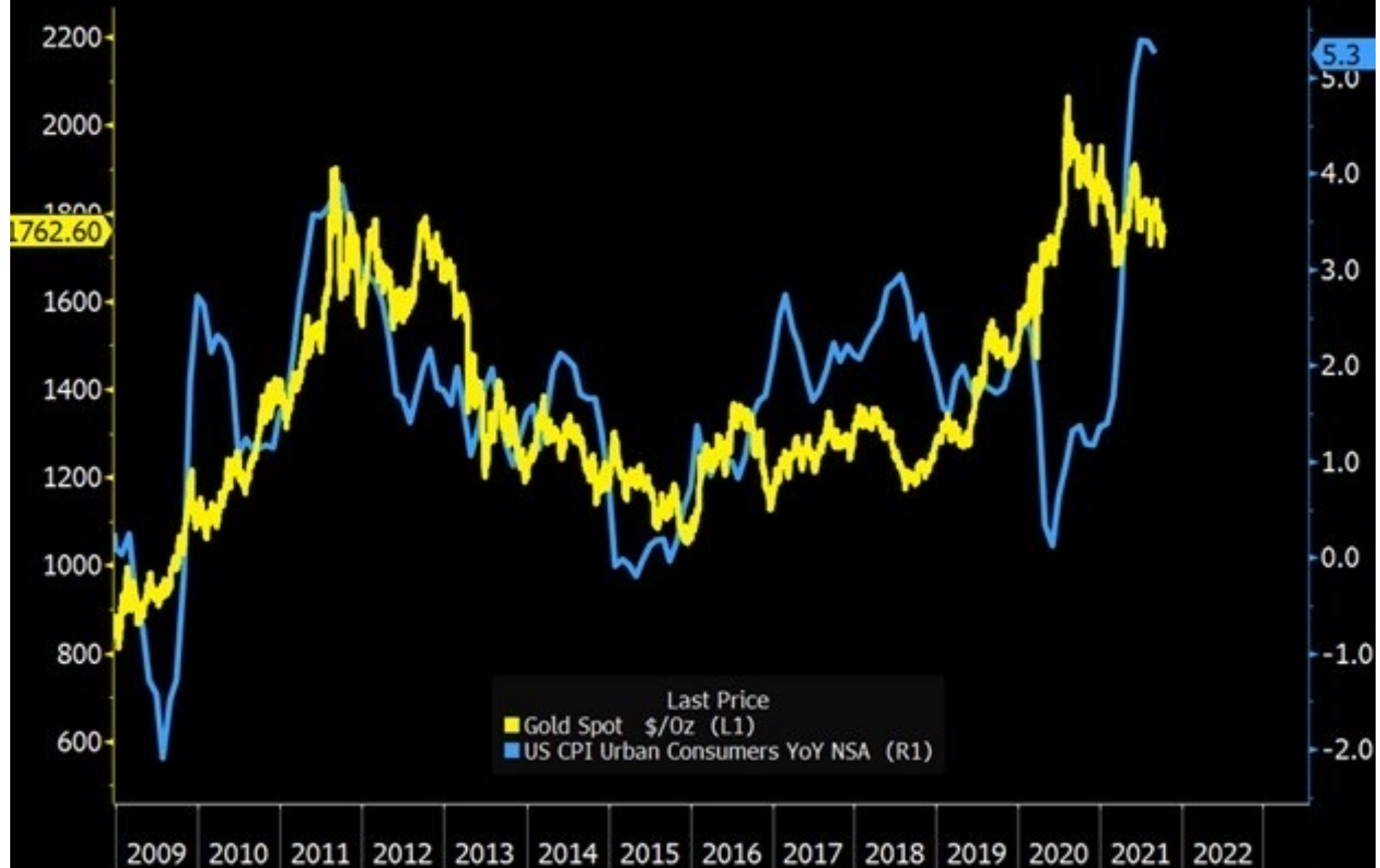
# Gold Miners vs. Utilities: Dividend Yield Differential



Source: Bloomberg

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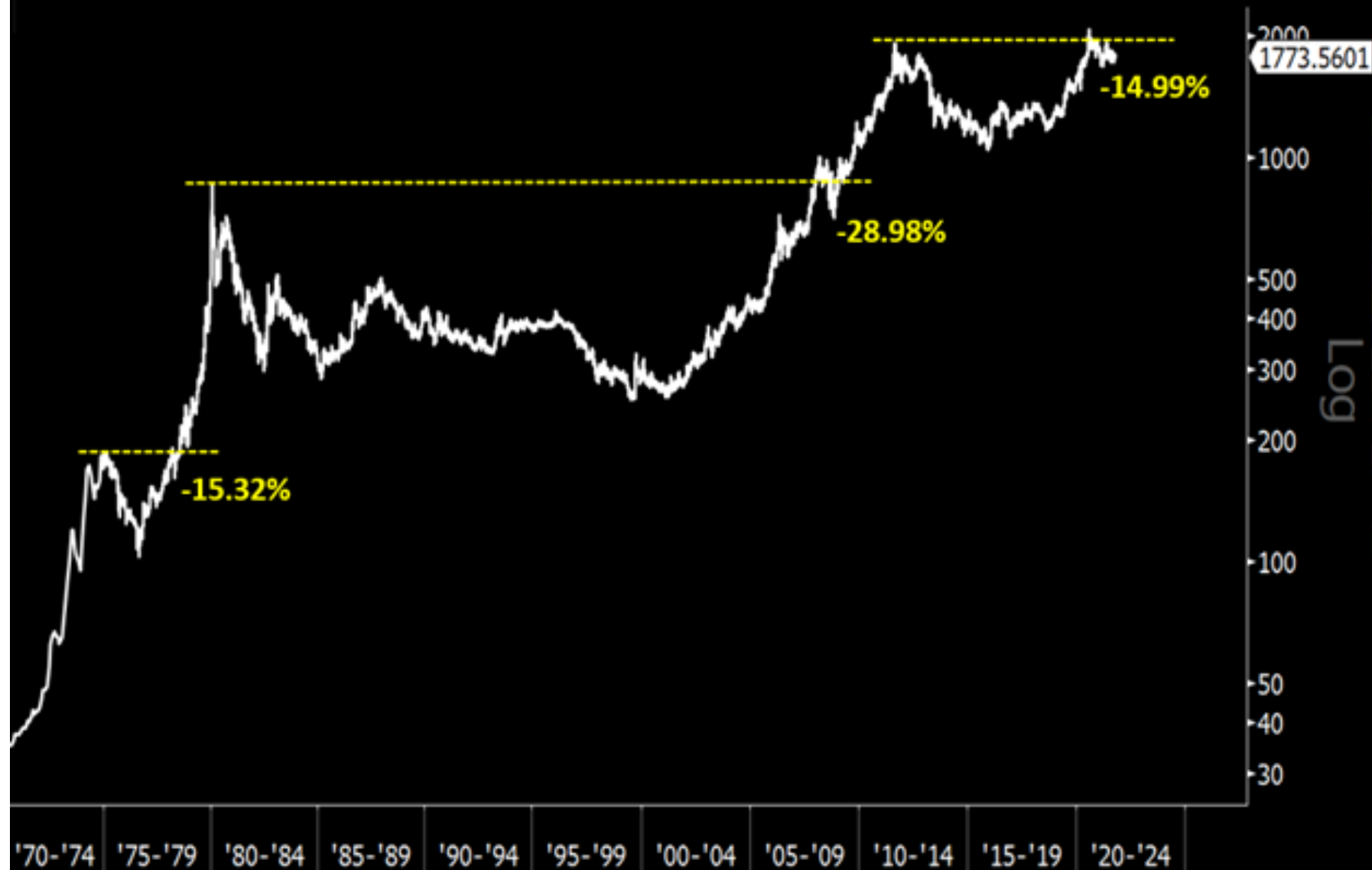
# Gold vs Inflation



Source: Bloomberg

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# Gold Tends to Struggle After Hitting New Highs



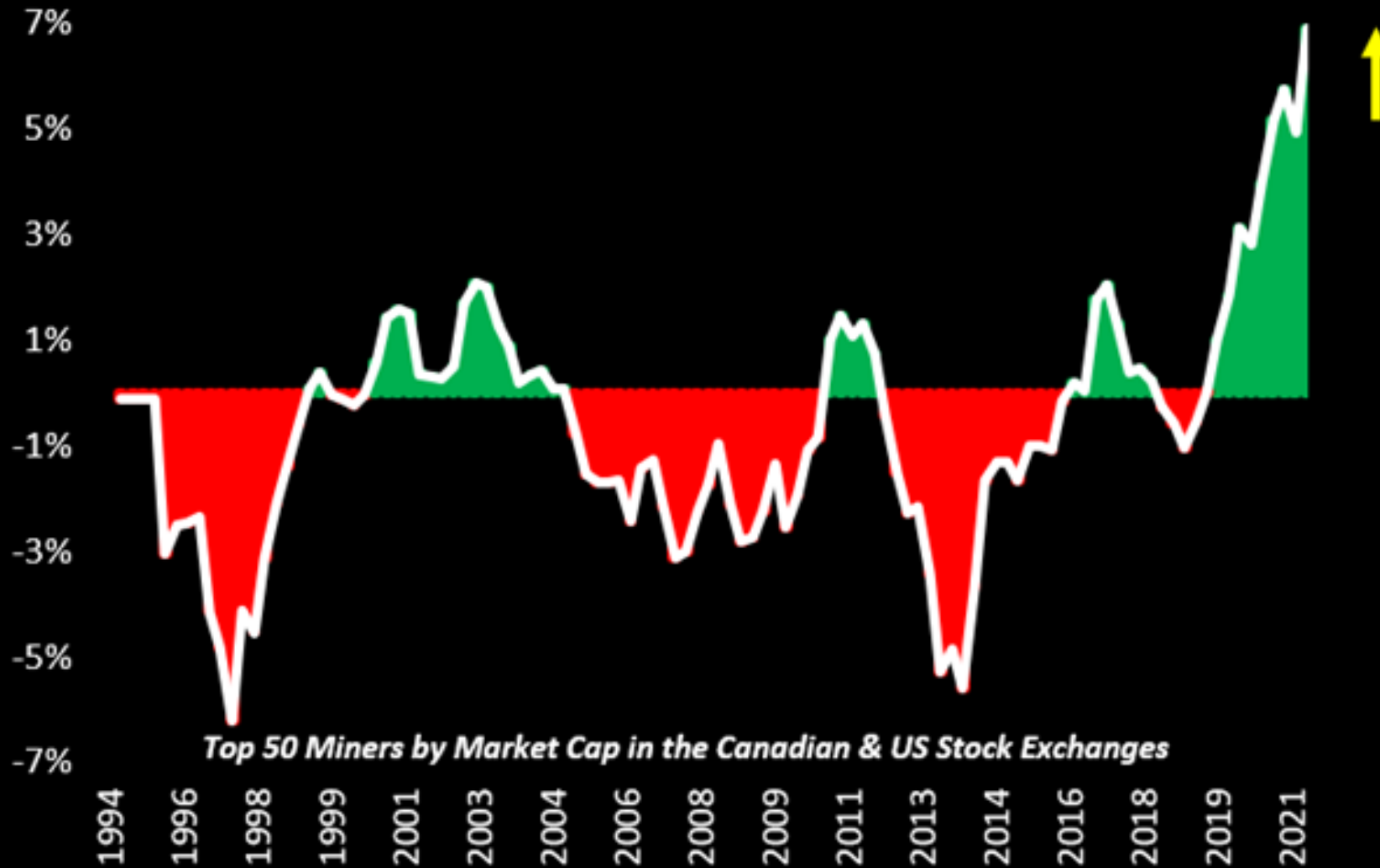
Source: Bloomberg

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# Gold & Silver Miners

*Aggregate Free-Cash-Flow Yield With Enterprise Value*

2022  
Free-Cash-Flow  
Estimate



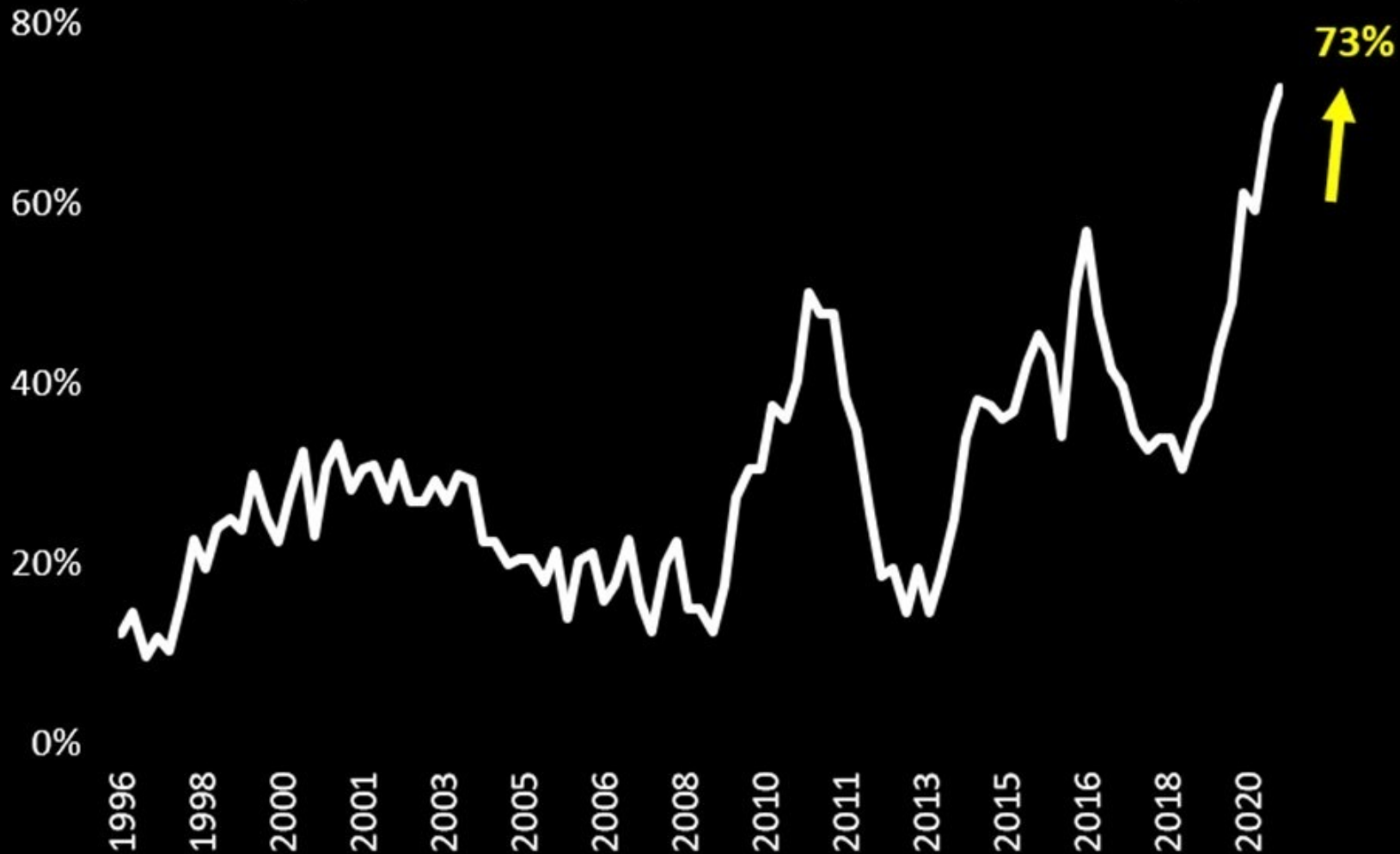
Source: Bloomberg

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# Gold & Silver Miners

*% of Miners With Positive Free-Cash-Flow Annually*



*Top 50 Miners by Market Cap in the Canadian & US Stock Exchanges*

Source: Bloomberg

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# Gold & Silver Miners

*Aggregate Net Debt Issuance in USD Millions*



*Aggregate Net Equity Issuance in USD Millions*



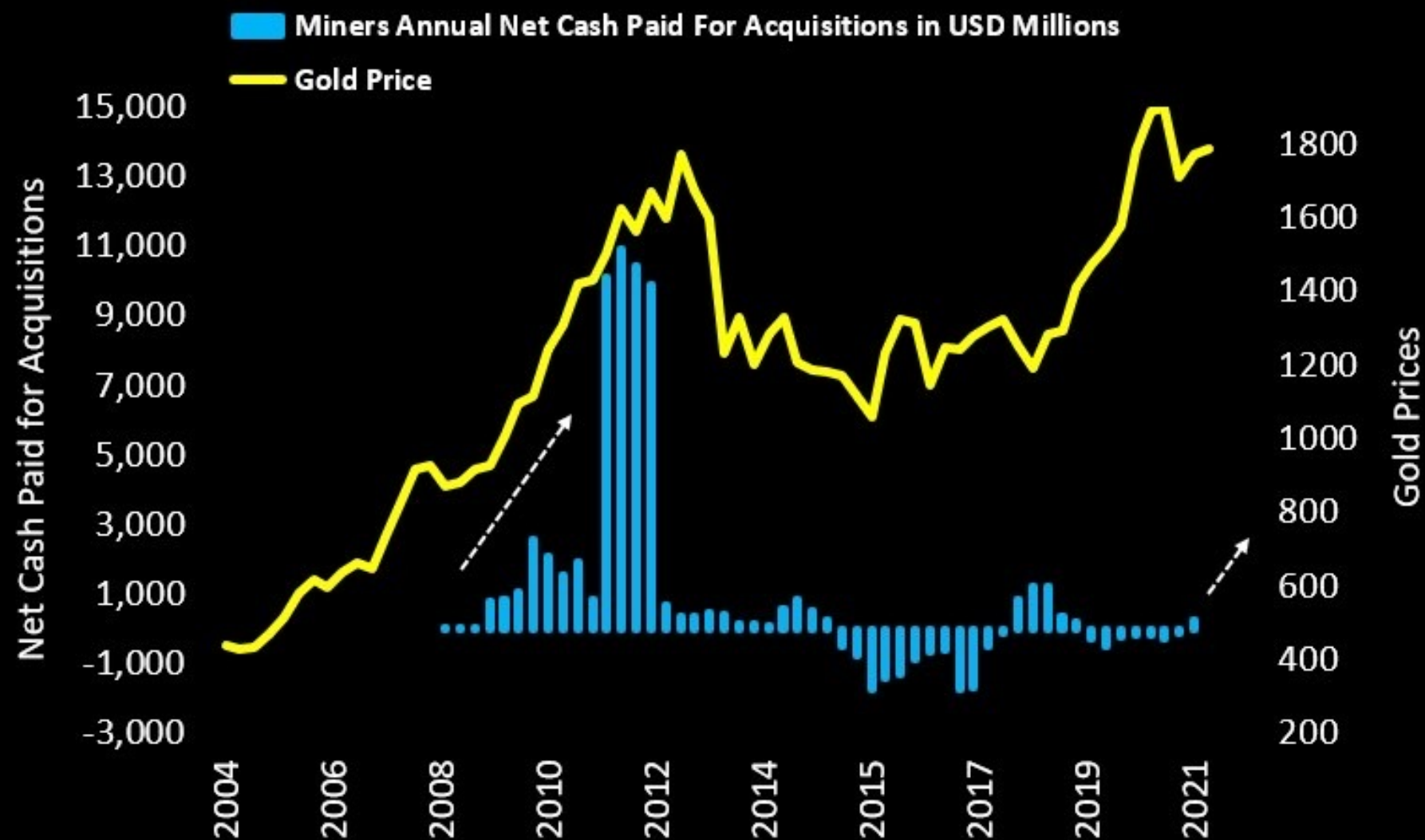
*Top 50 Miners by Market Cap in the Canadian & US Stock Exchanges*



Source: Bloomberg

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# Precious Metals' Miners M&A Cycle

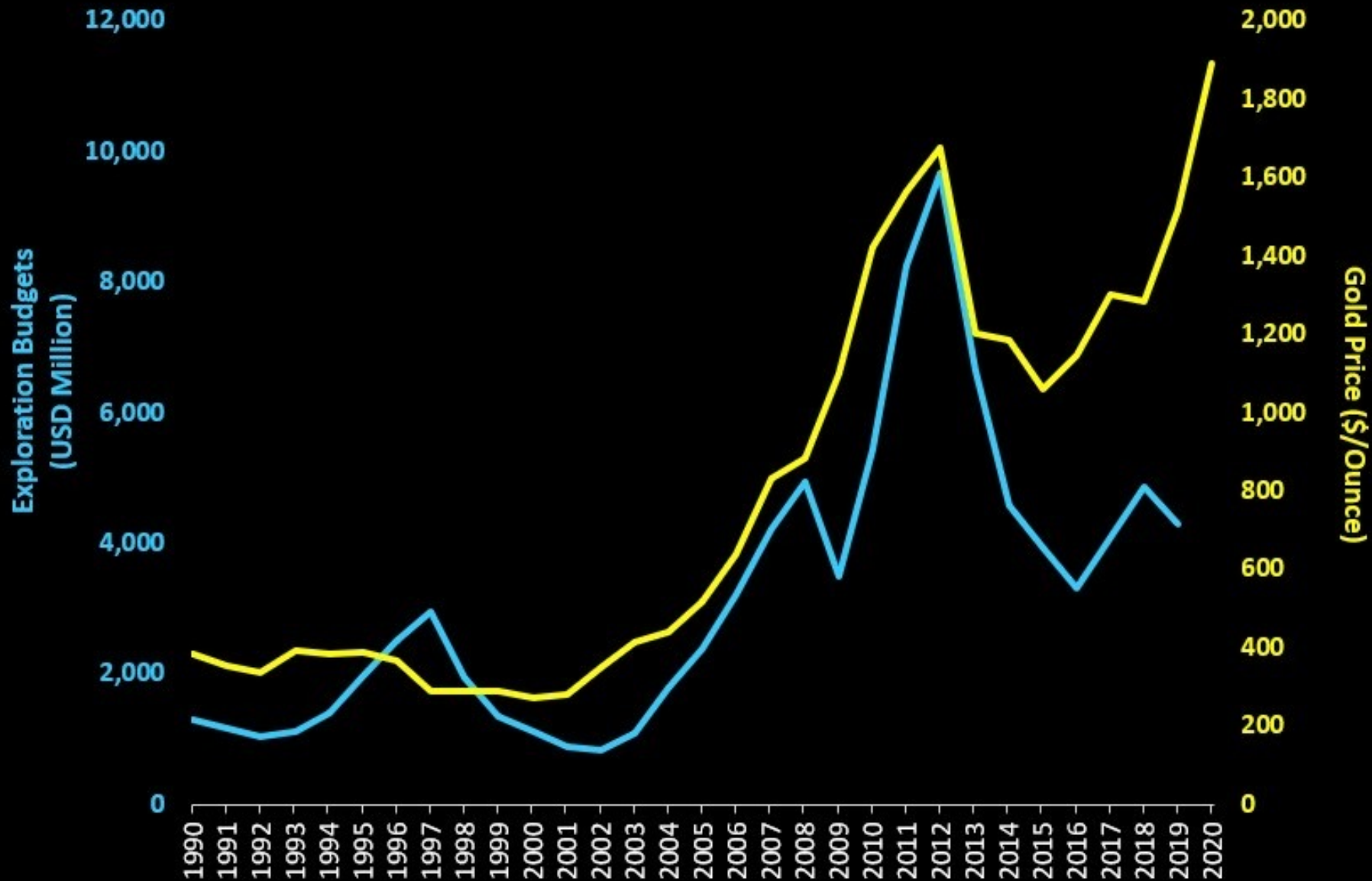


*Top 50 Miners by Market Cap in the Canadian & US Stock Exchanges*

Source: Bloomberg

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# Gold Price vs. Exploration Budgets

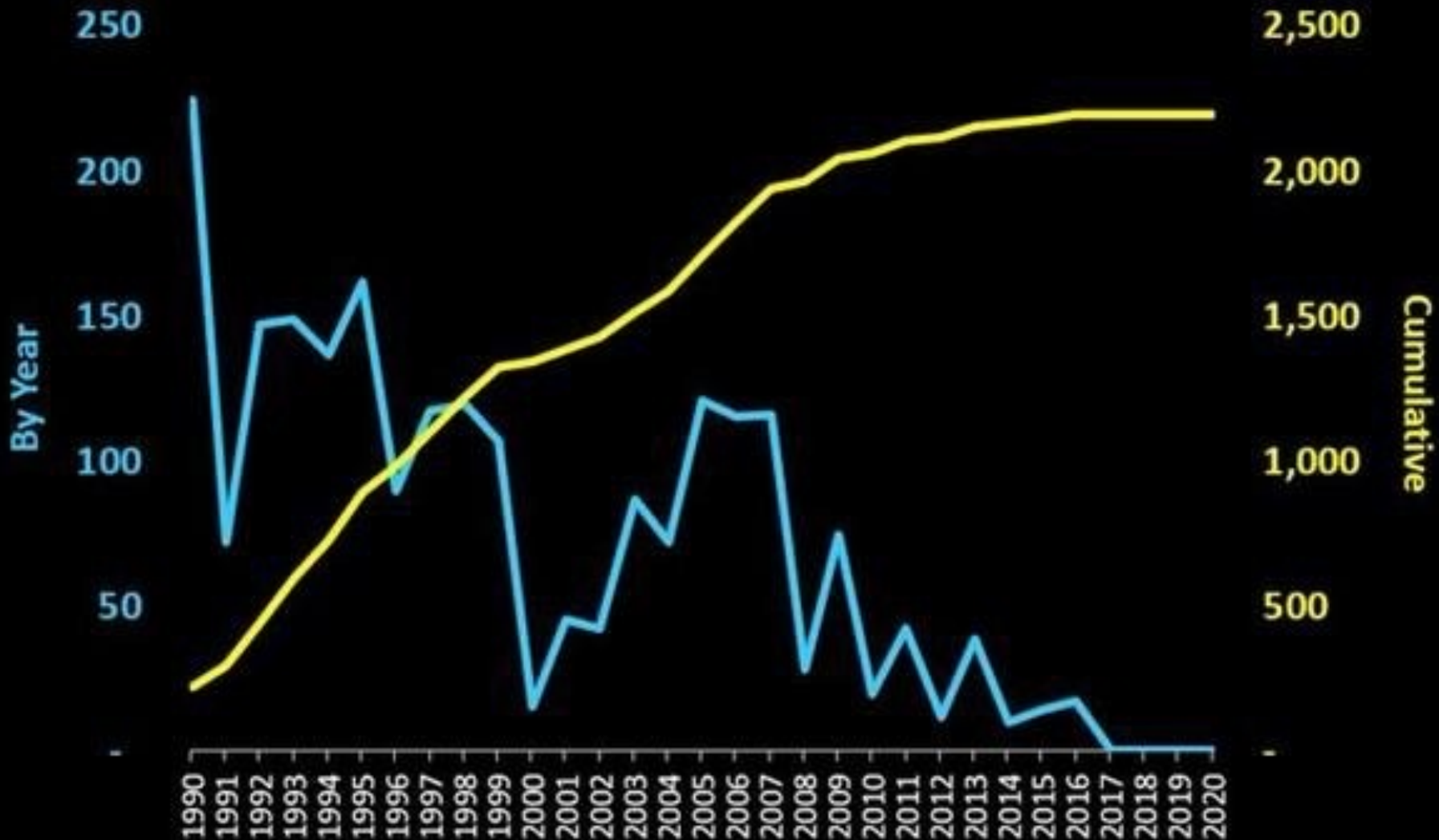


Source: S&P Global Market Intelligence

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# Gold Discoveries

>2M Ounces (Millions of Troy Ounces)



Source: S&P Global Market Intelligence

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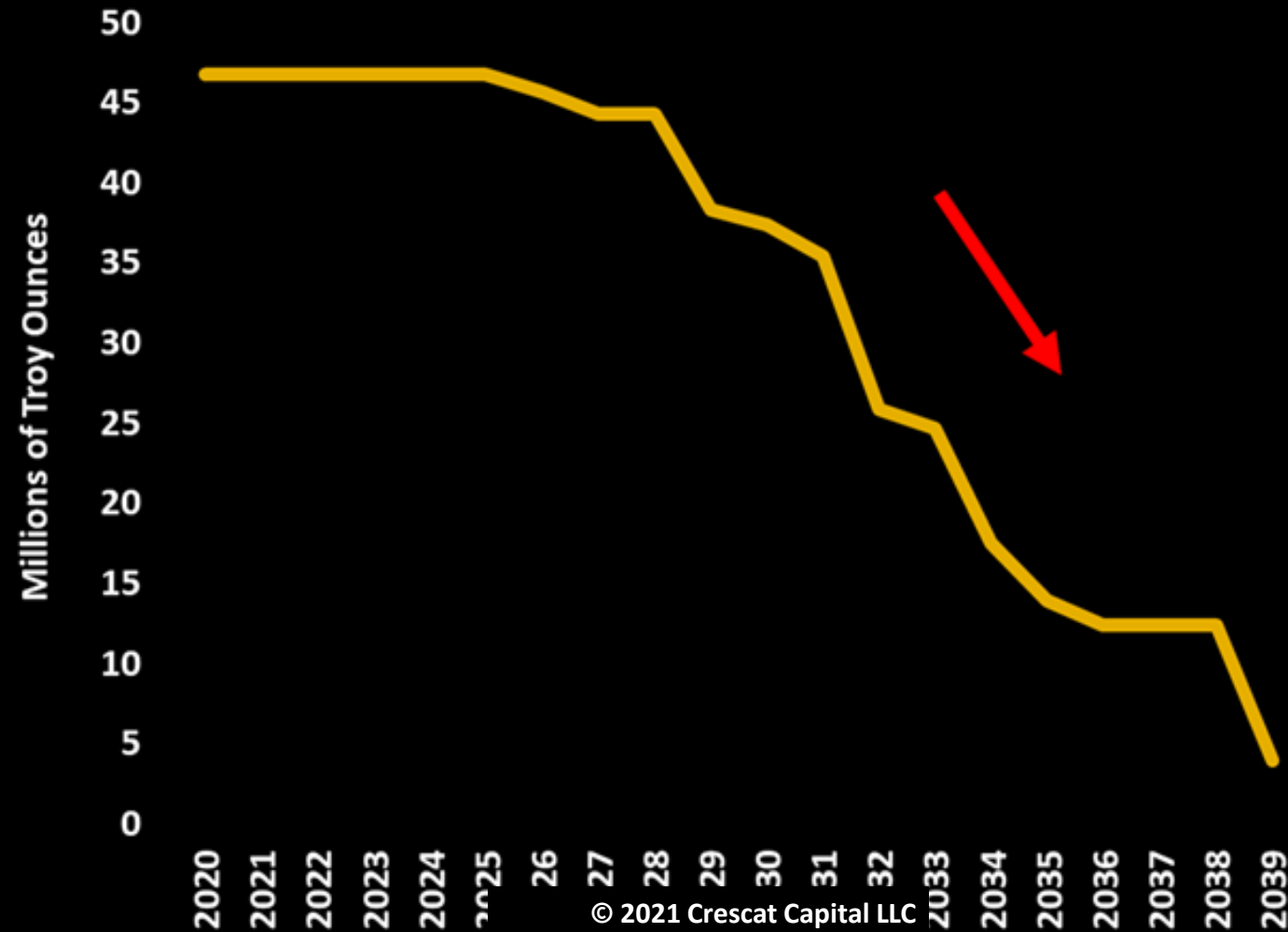
## Undergraduate Geoscience Enrollment

# GLOBAL TRENDS



# Gold Supply Cliff

Top 20 Global Gold Producers  
Projected Production from Proven and Probable Reserves

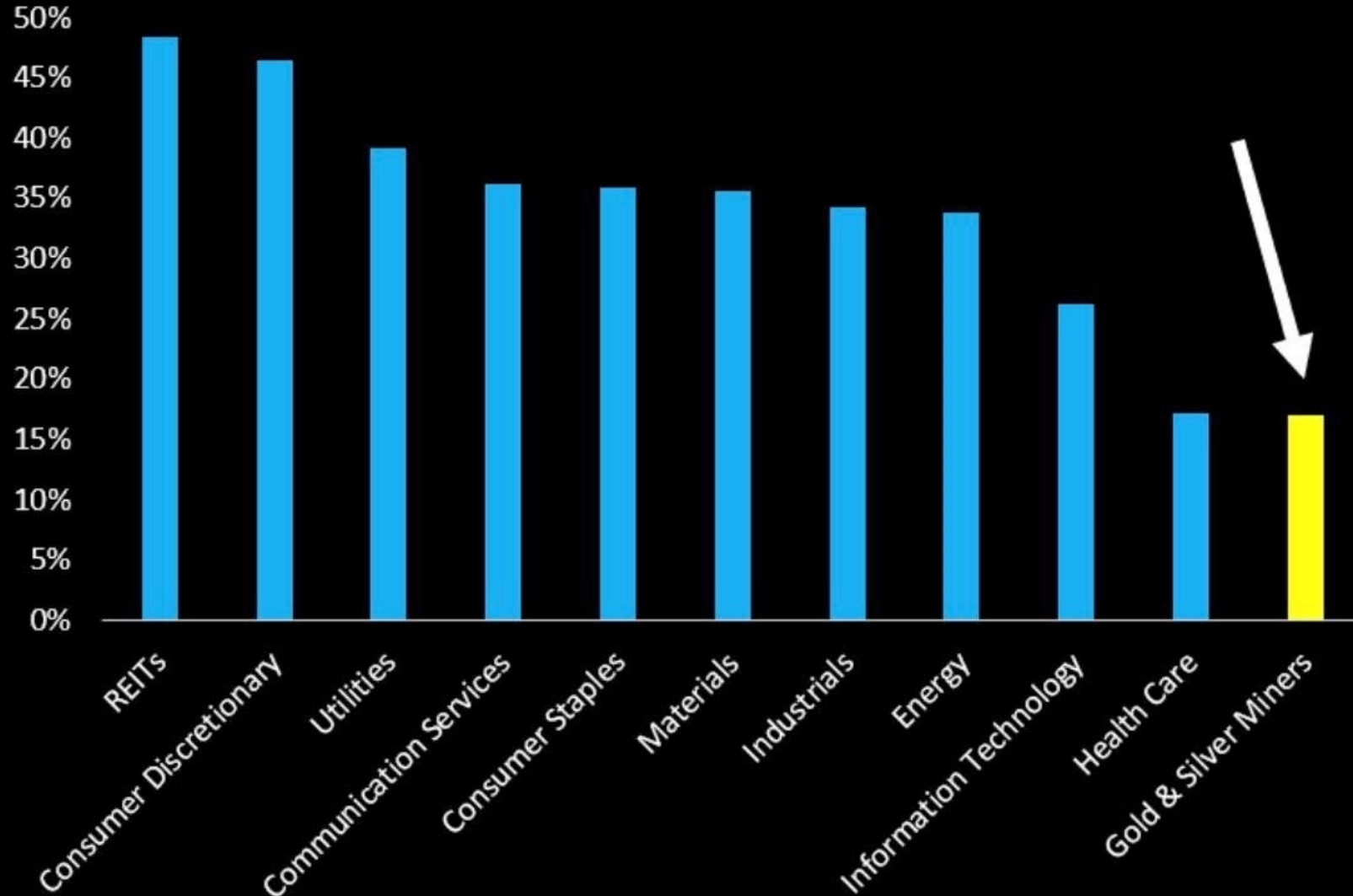


Source: S&P Global Market Intelligence

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# Median Total Debt to Assets Ratio

*Russell 3000 Index & Top 50 Precious Metals Miners By Market Cap*

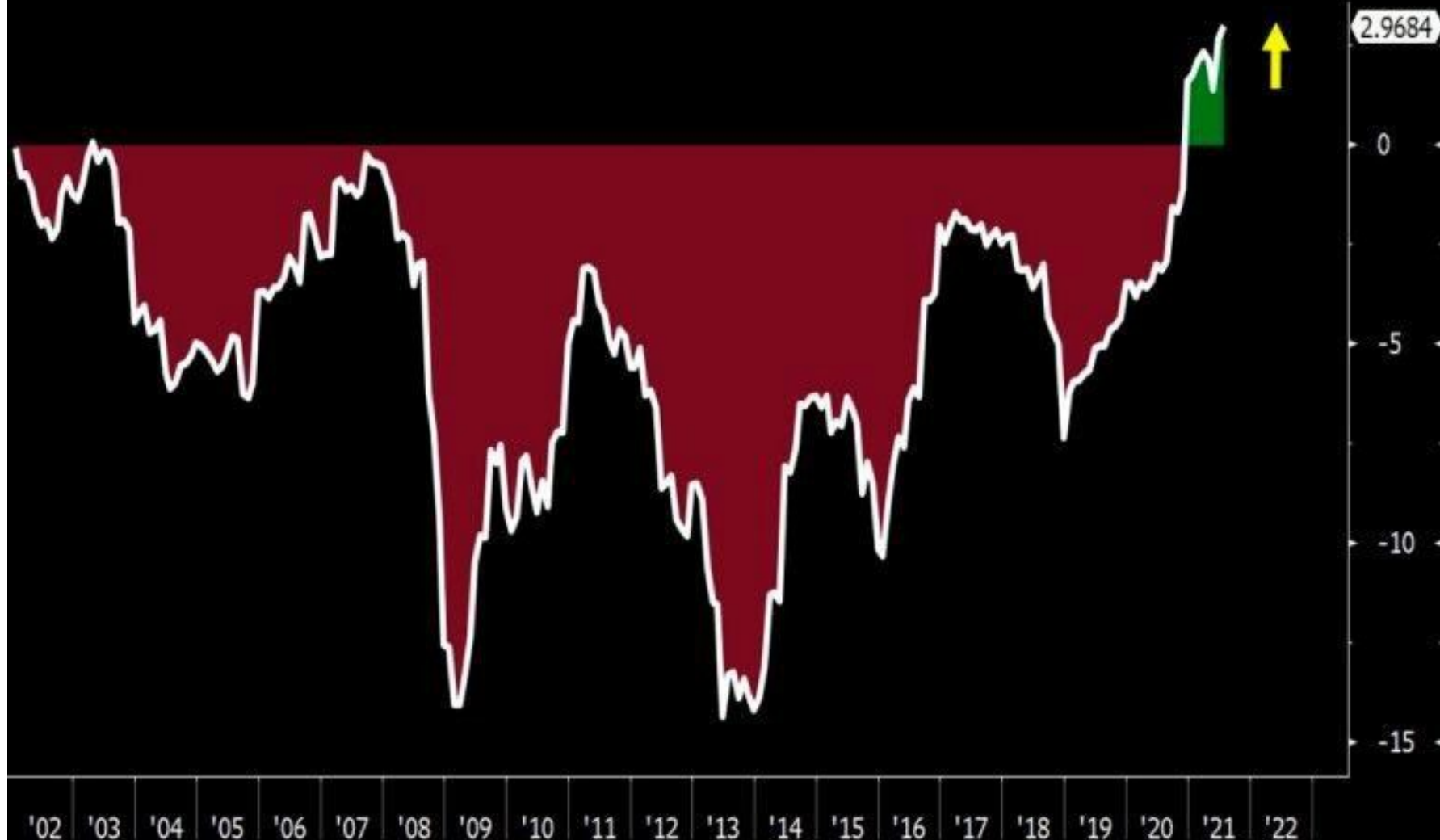


Source: Bloomberg

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# Precious Metals Miners vs. S&P 500

*Free Cash Flow Yield Spread (%)*



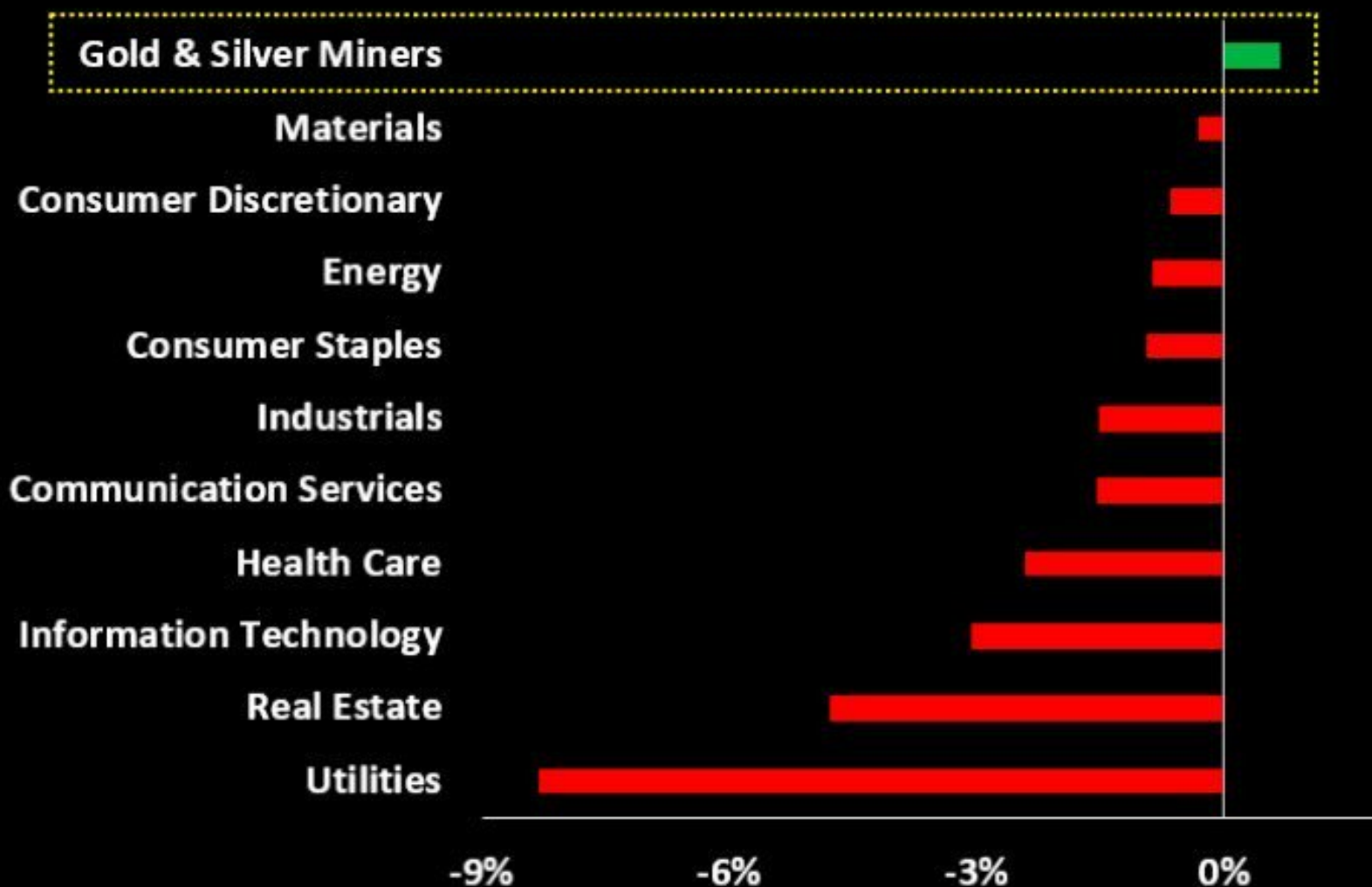
Source: Bloomberg

Universe: Philadelphia Stock Exchange Gold and Silver Index

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# Real Free-Cash-Flow Yield by Sector

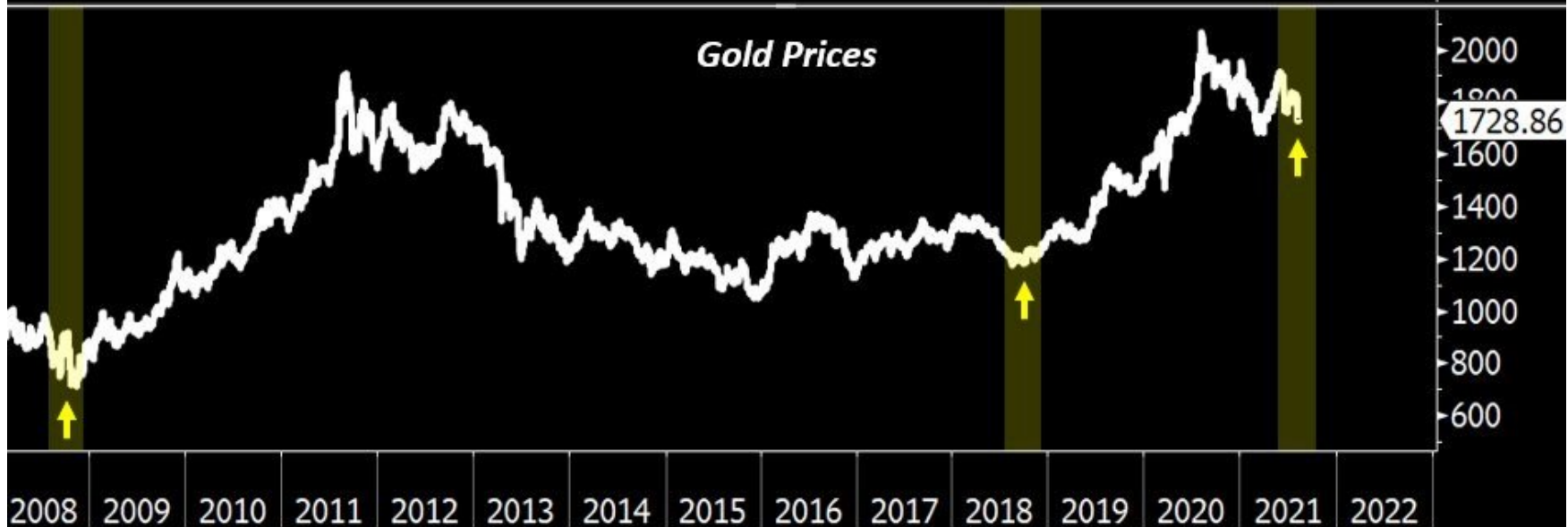
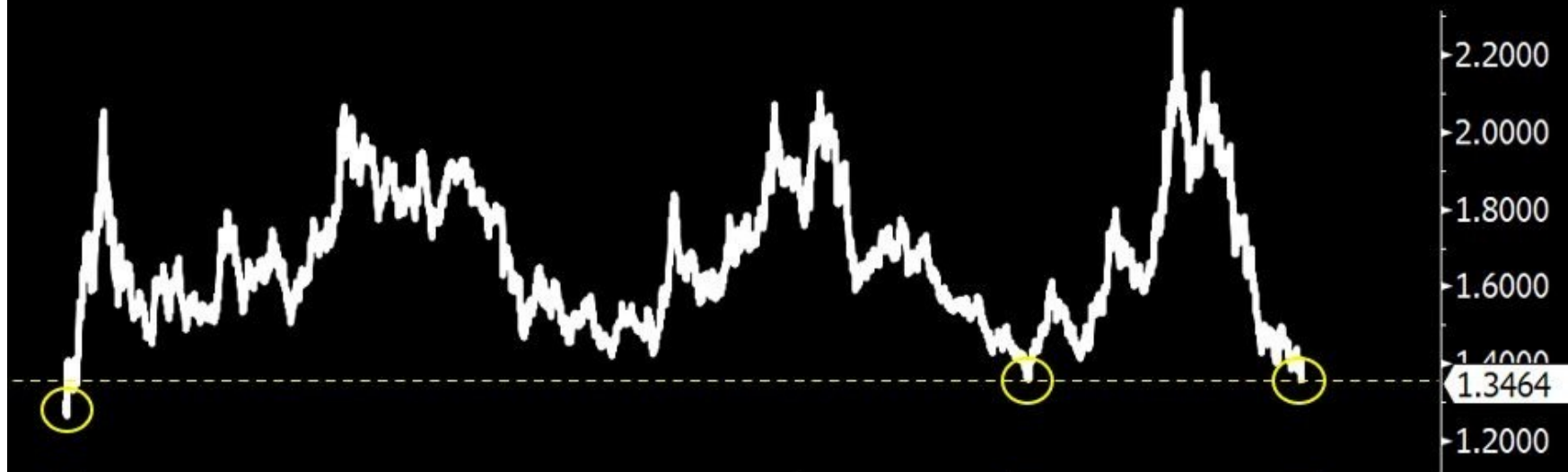
*Aggregate Free-Cash-Flow Yield Net of Consumer Prices Index YoY Change*





# Precious Metals to Commodities Ratio

*Bloomberg Precious Metals Subindex / S&P GSCI Equal Weight Commodity Sector*



Source: Bloomberg

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# Gold to Silver Ratio Remains Historically Elevated

*Gold to Silver Ratio*



*Philadelphia Stock Exchange Gold & Silver Index*

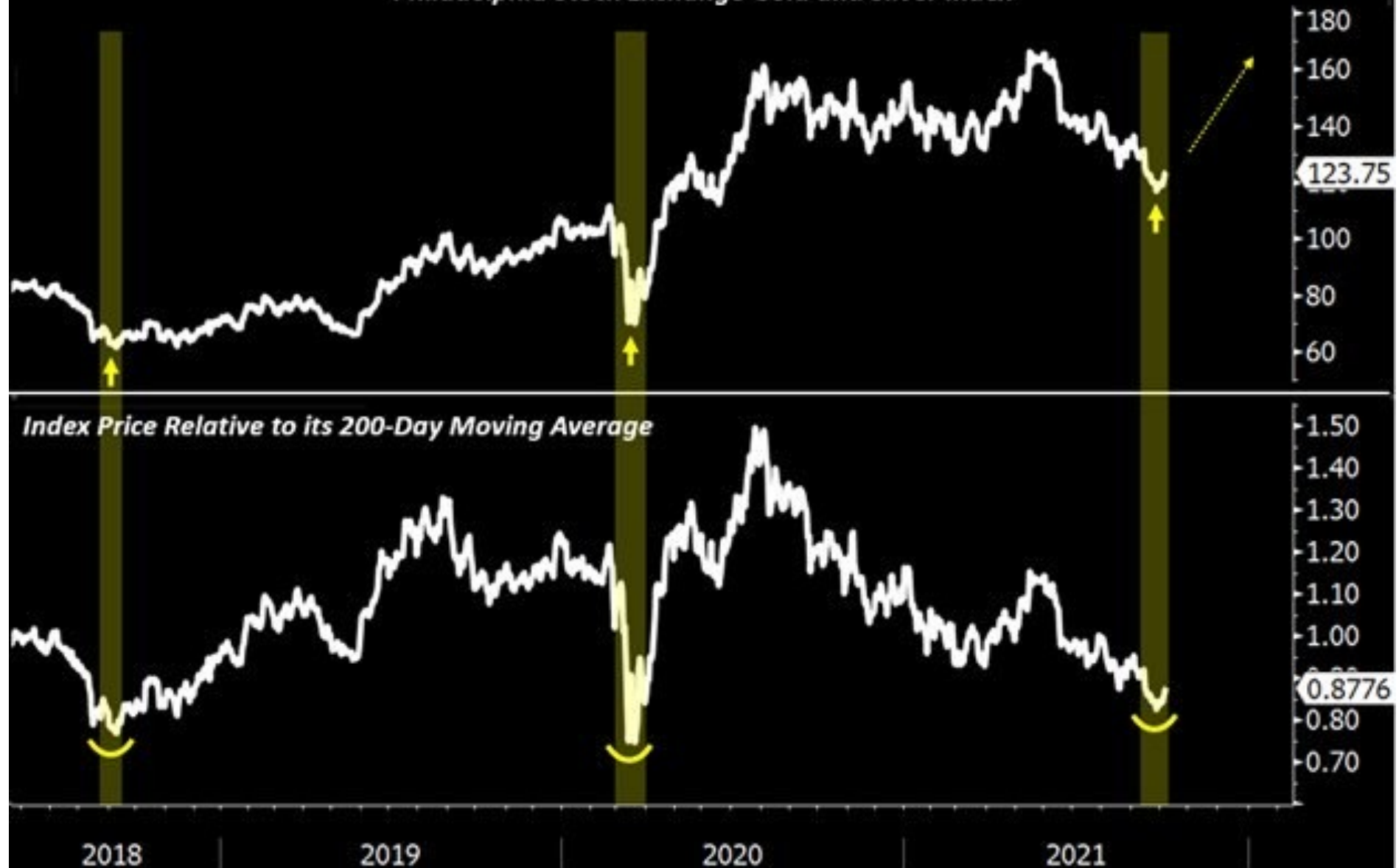


Source: Bloomberg

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# Gold & Silver Miners

*Philadelphia Stock Exchange Gold and Silver Index*



Source: Bloomberg

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# Junior Miners Outperforming Precious Metals

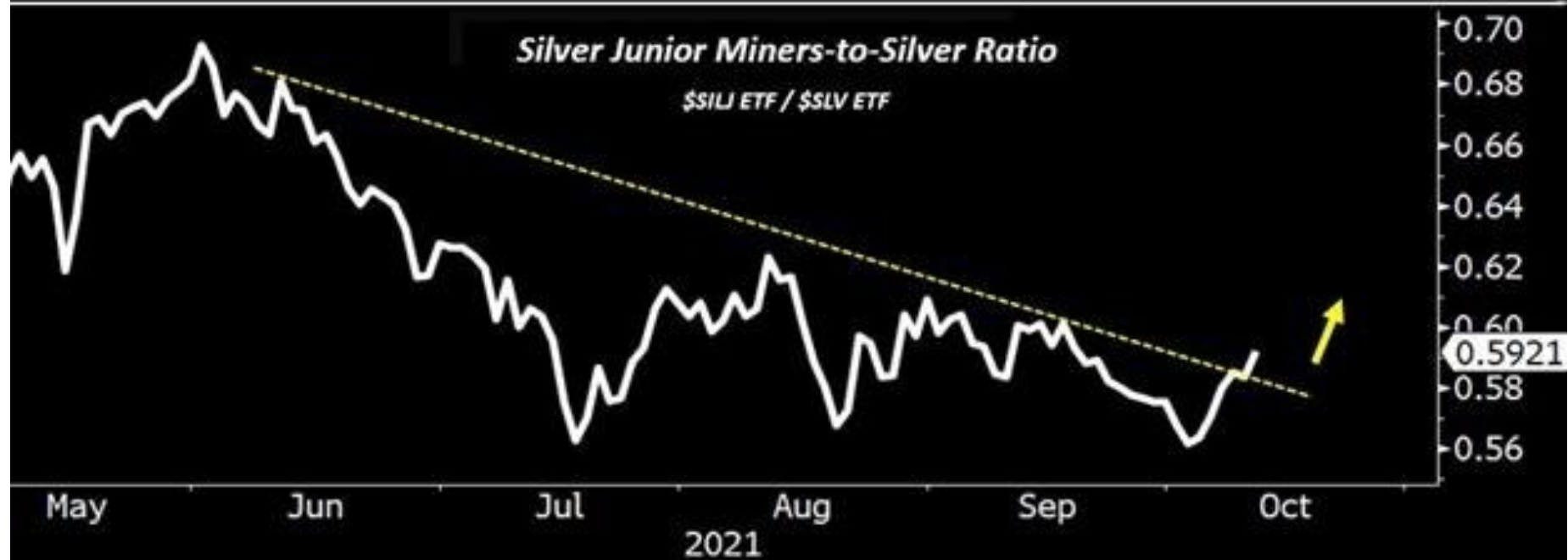
*Gold Junior Miners-to-Gold Ratio*

*\$GDXJ ETF / \$GLD ETF*

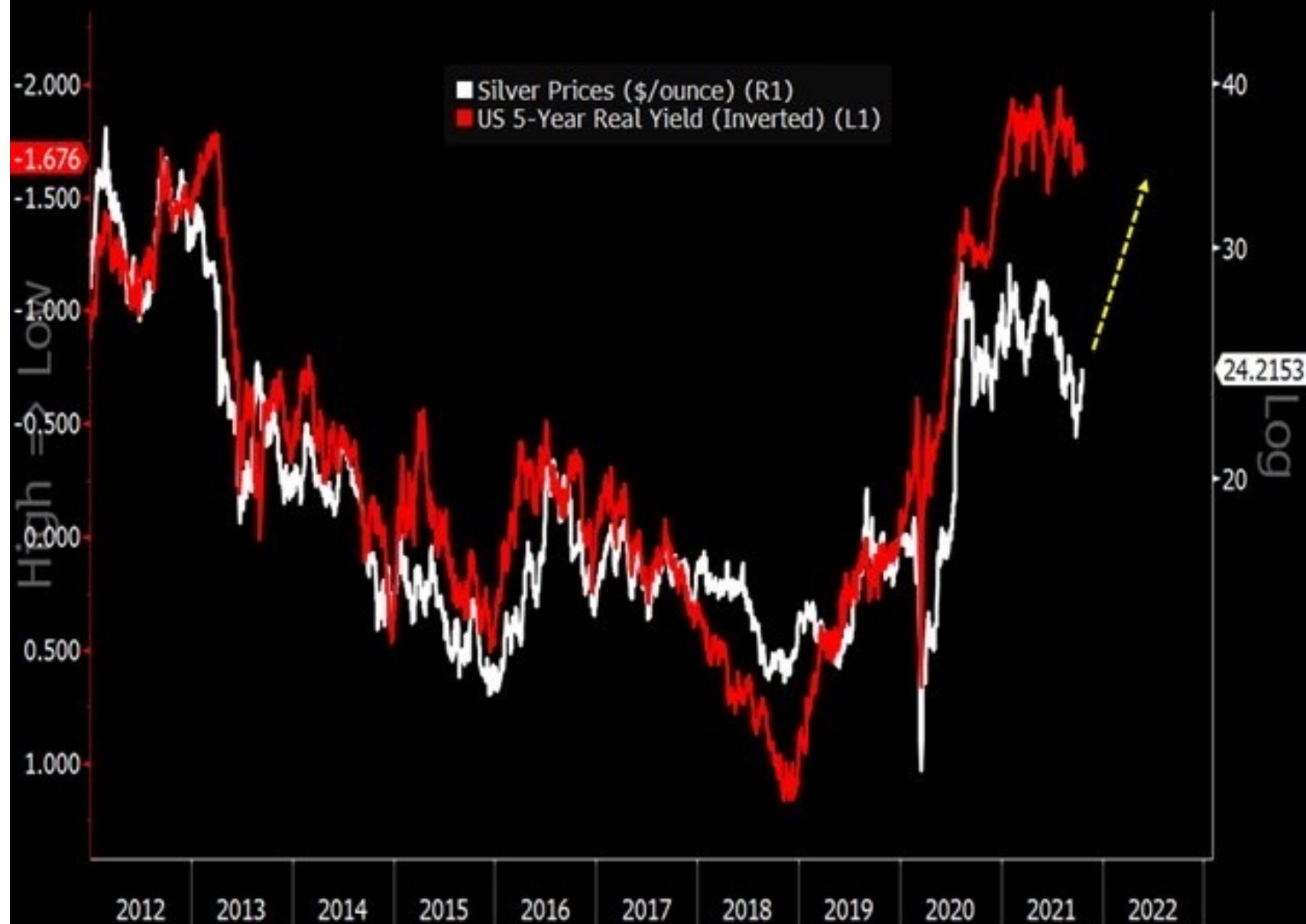


*Silver Junior Miners-to-Silver Ratio*

*\$SILJ ETF / \$SLV ETF*



# Silver vs. Real Interest Rates



Source: Bloomberg

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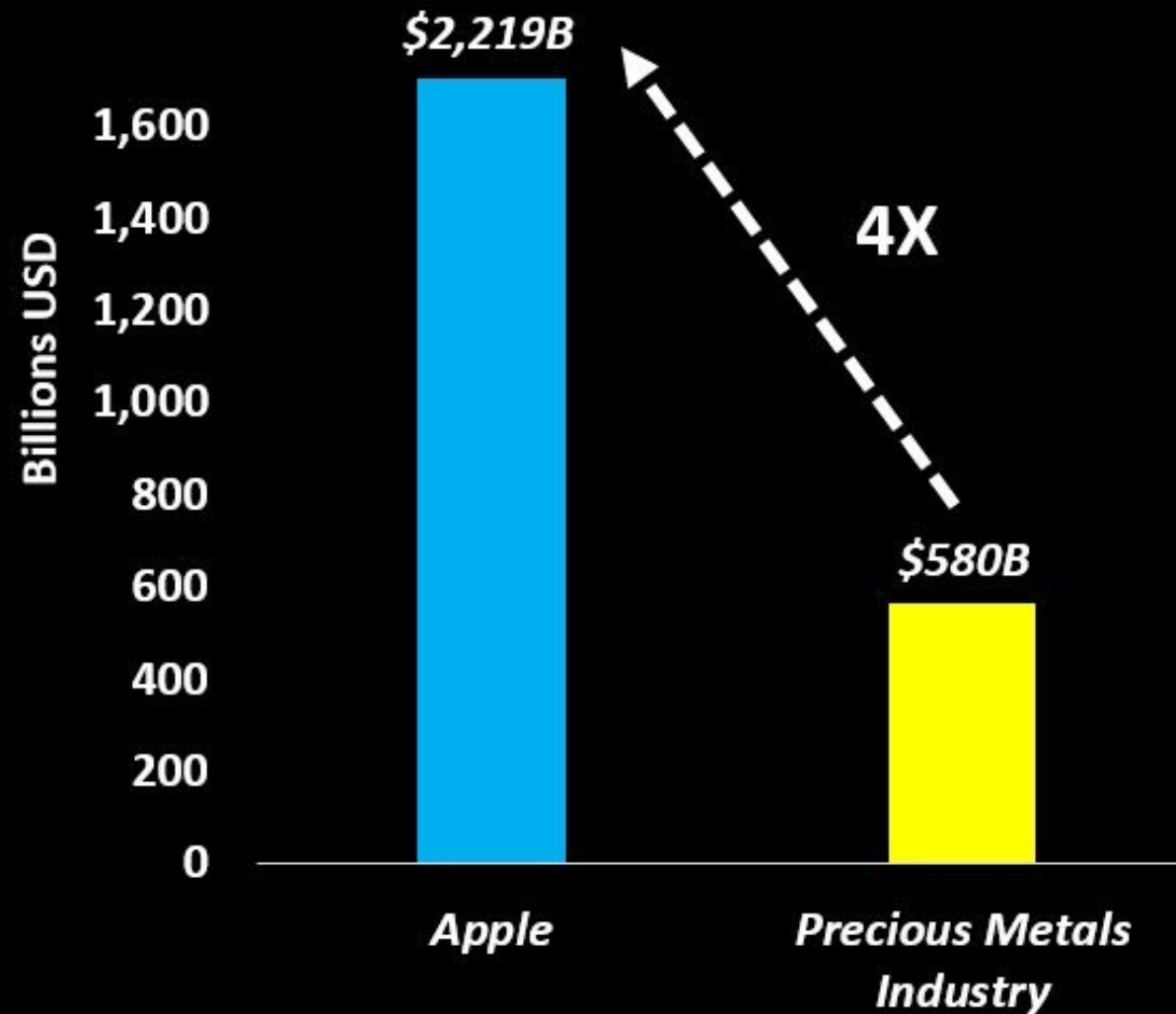
# Gold vs Miners



Source: Bloomberg

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# Total Market Cap



Source: Bloomberg

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# Silver to Money Supply

*Silver / M2 Money Supply*



Source: Bloomberg

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# GDXJ vs. Inflation Expectations



Source: Bloomberg

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# CHINA CURRENCY DEVALUATION

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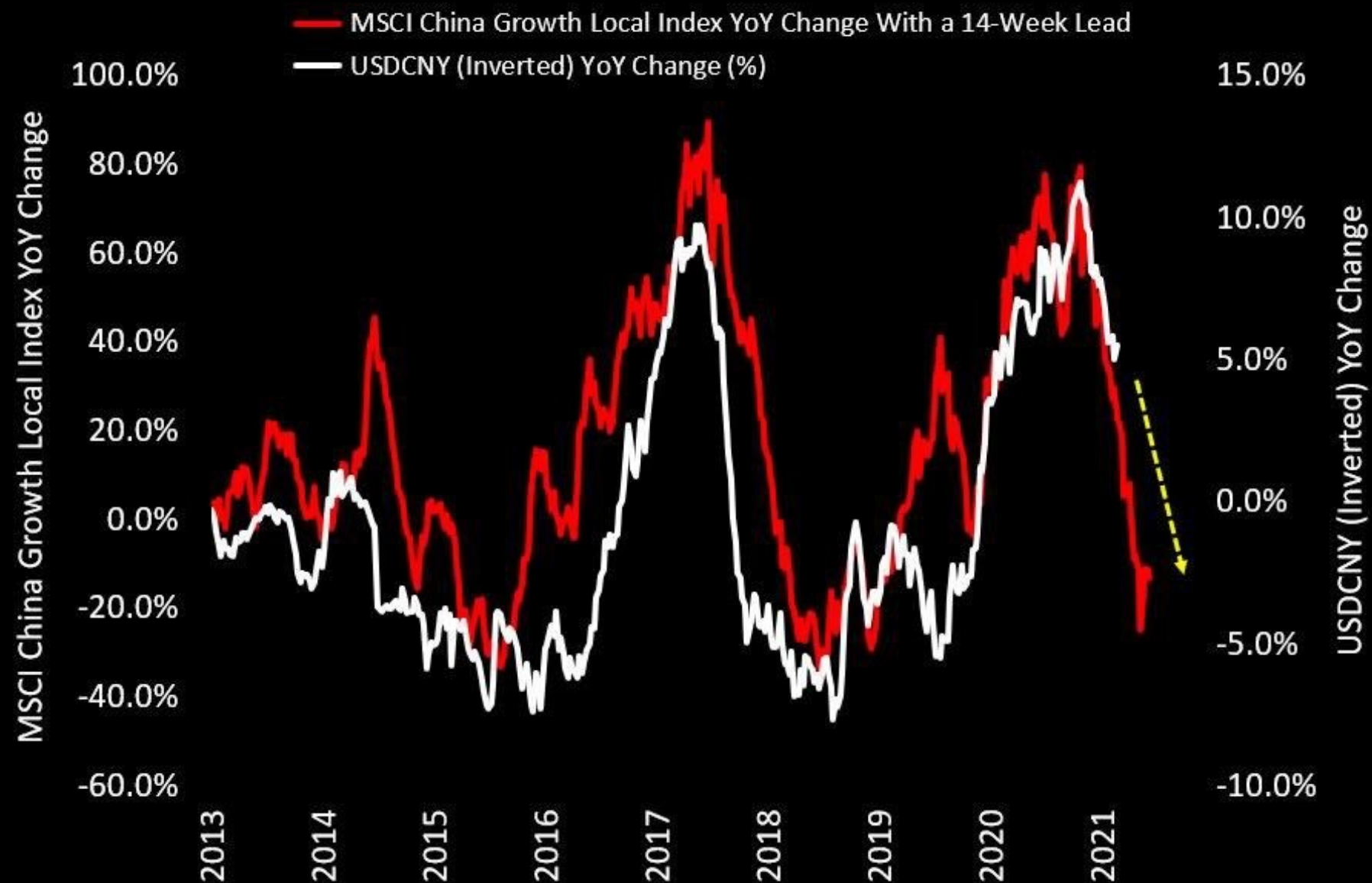
# Chinese Banking Assets to GDP (%)



Source: Bloomberg

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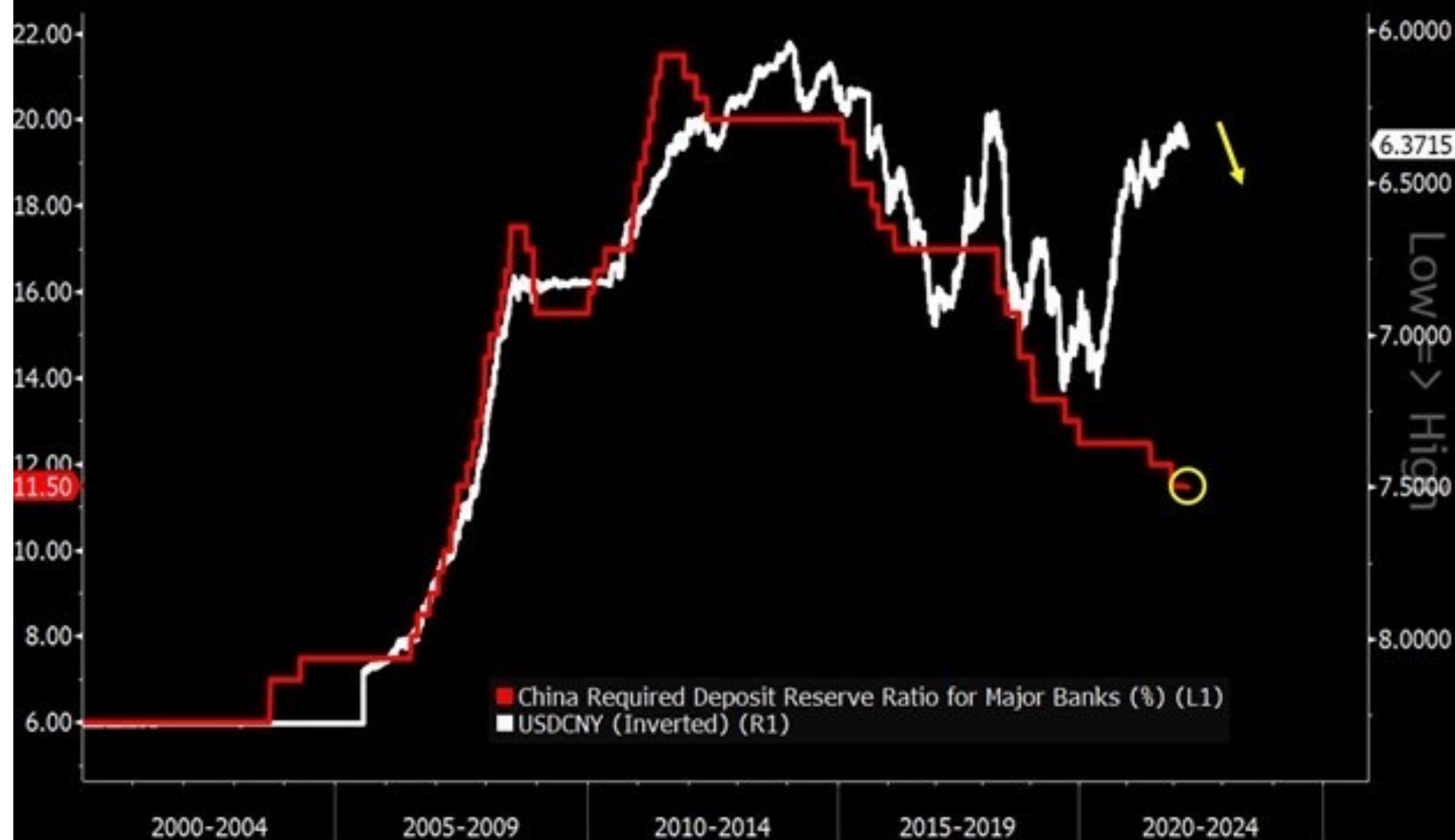
# Chinese Growth Stocks Leads the Changes in CNY



Source: Bloomberg

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# Chinese Yuan vs. Required Deposit Reserve Ratio

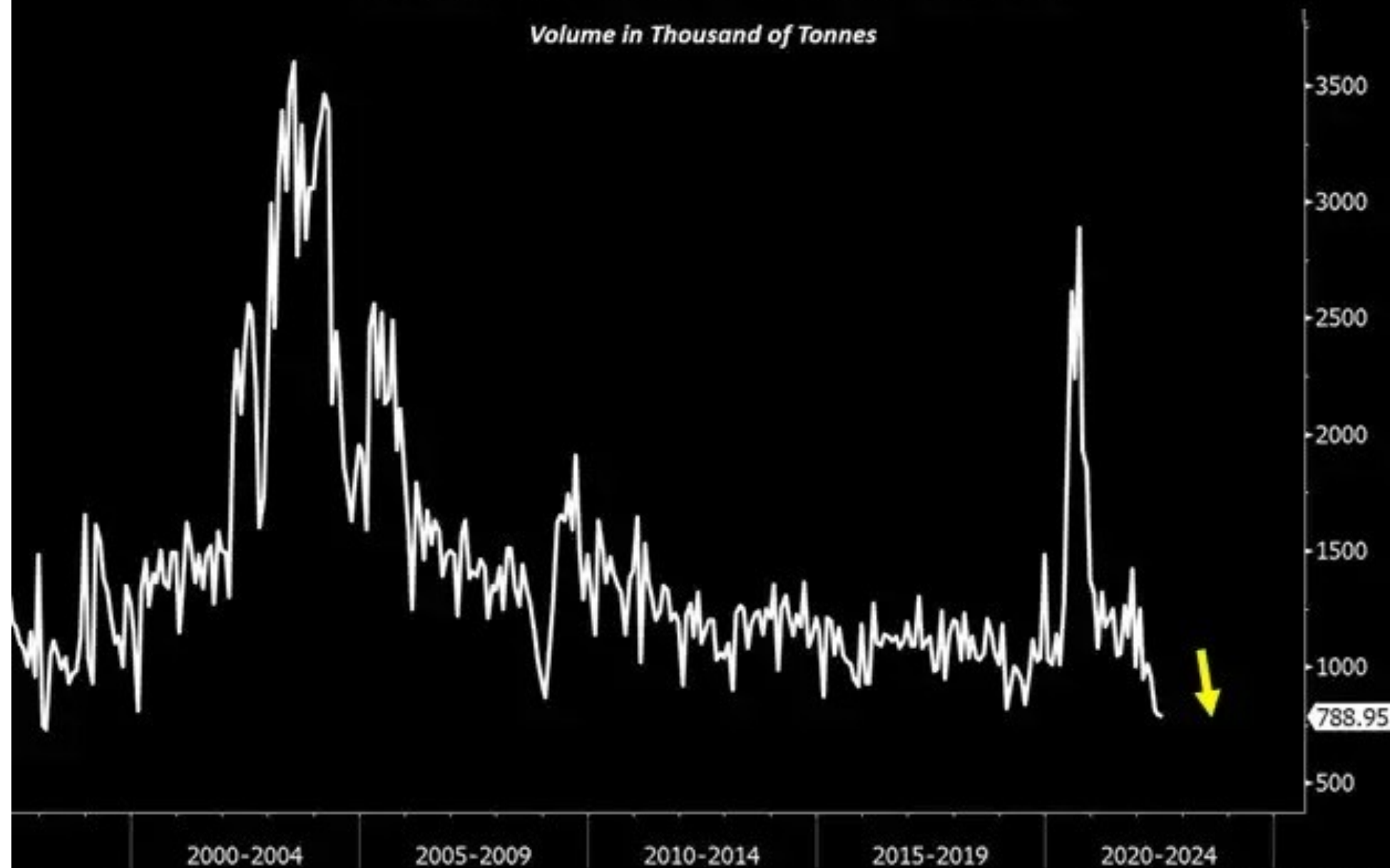


Source: Bloomberg

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# China Imports of Steel Products

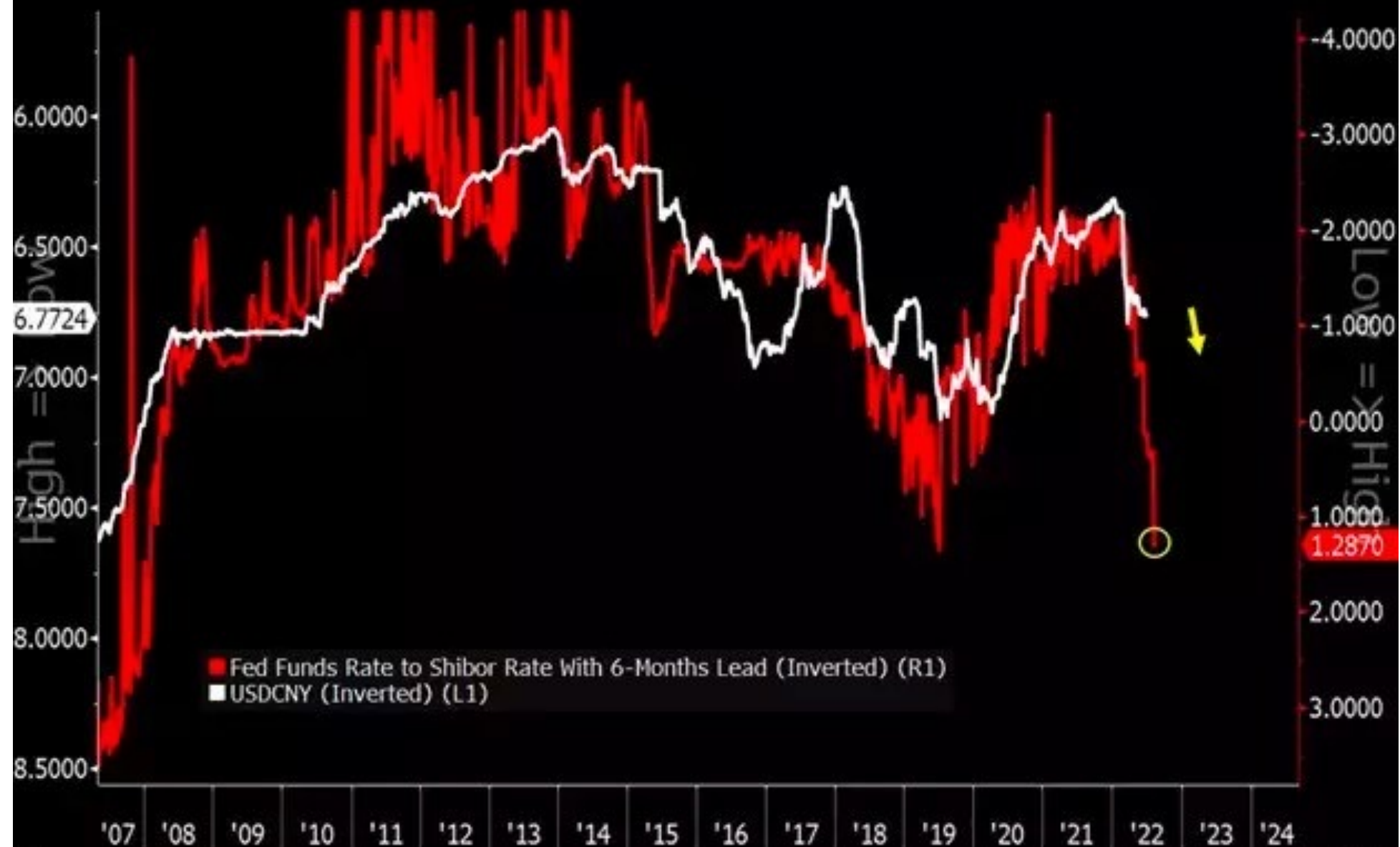
*Volume in Thousand of Tonnes*



Source: Bloomberg

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## PBOC to Fed Rate Policy Spread vs. USDCNY (Inverted)



Source: Bloomberg

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# USDCNH



Source: Bloomberg

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