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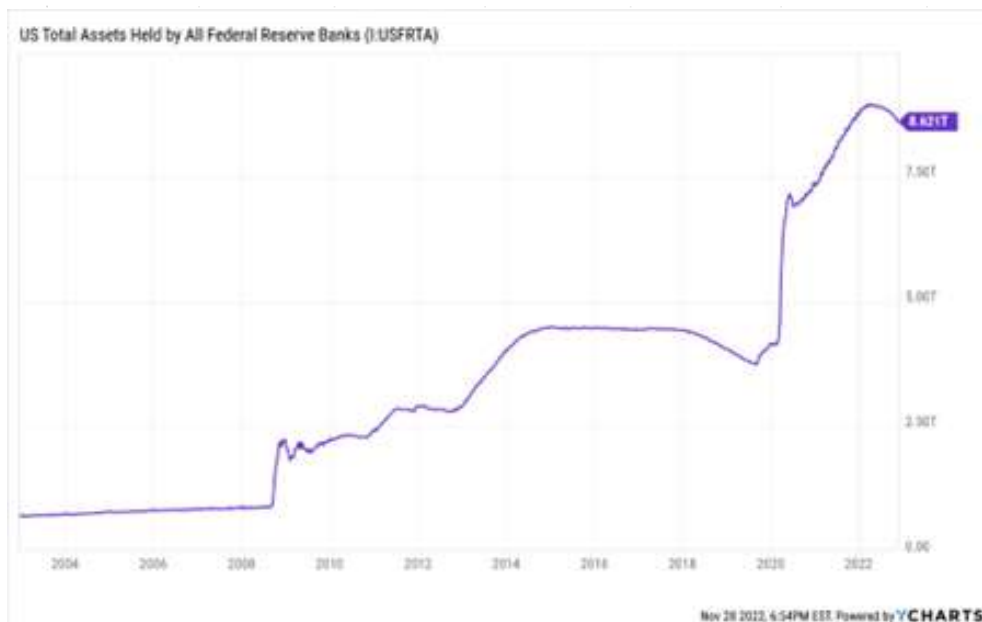
This year overall returns for bonds and stocks reached Bear market levels. But don't forget Bears do hibernate and Bulls do run. And both will happen again. But before we look into our optimistic crystal ball for let's recap for an understanding of why, how, and where the Bull is already running.

As inflation reached levels not seen in years, the Federal Reserve went on a warpath to try and stop it in its tracks by raising the Fed Funds rate an aggressive in just nine months. Fed Chairman Jerome Powell stated at Jackson Hole in August that the Fed will keep at it until the job is done. He was taking a page from one-time Fed Chair Paul Volker, who succeeded in stomping out inflation in the late 1970s with interest rates that peaked at record highs in the early 1980s.

Meanwhile, we've had years of historic easy monetary and fiscal policy as interest rates dropped to and remained near zero and the Fed balance sheet grew to Trillion. But since the COVID outbreak, the Fed's balance sheet has exploded to Trillion, a increase over roughly years. During COVID, there have been three major bills creating more historic stimuli: the CARES Act, the American Rescue Plan Act, and the Inflation Reduction Act at Trillion, and Student Debt forgiveness for another Trillion bump. This adds another Trillion dollars of stimulus to the economy.

Since the Russian invasion of Ukraine back in February, the US has supported Ukraine with Trillion. As of November, Congress is currently asking for an additional Trillion. War history will tell you that wars create shortages followed by a period of inflation. So whether you are a monetarist, Keynesian, or just a military history buff, knowing that inflation was coming this year was a slam dunk. And that was even without crediting the increase in wages known for its high correlation to inflation.

So 2022 will be remembered for the biggest fight with inflation since the 1970s. But we believe 2023 will come to be known as the year the Bull bounced back. Even though its run has already begun.





Another way to consider the secular uptrend is to look at the Wilshire Total Market Index which represents the full market capitalization of the US market. You will see there was a significant breakout in 2000, nowing that secular bulls can last up to 20 years, we see that the current secular trend could go until at least 2020. Note that there are Bear corrections in secular uptrends.

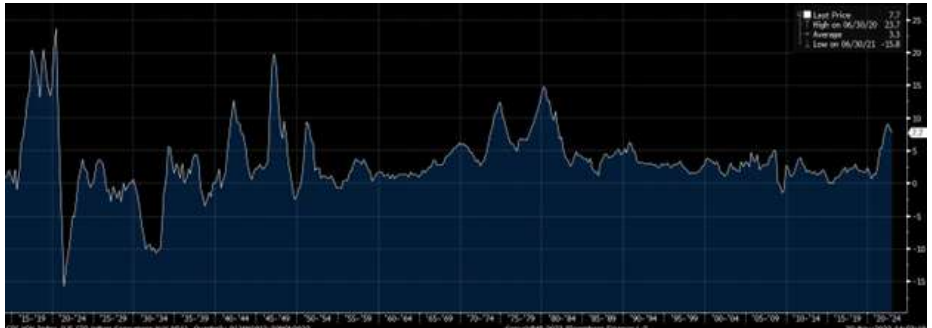
Wilshire Total Market Index

You will also see evidence in the Wilshire chart with its stair step pattern indicated by the green lines. This pattern is created whenever a temporary pullback stays above the prior low and the next peak reaches above the prior high. When this pattern repeats, it's bullish. But as the Fed continues to tighten by raising interest rates to the expected peak terminal rate in the 2020s, markets can still have periods of episodic volatility. But once the Bull takes hold, the extreme volatility should ebb.



Source: Bloomberg, December 2, 2022

CPI Year on Year



Source: Bloomberg, November 30, 2022

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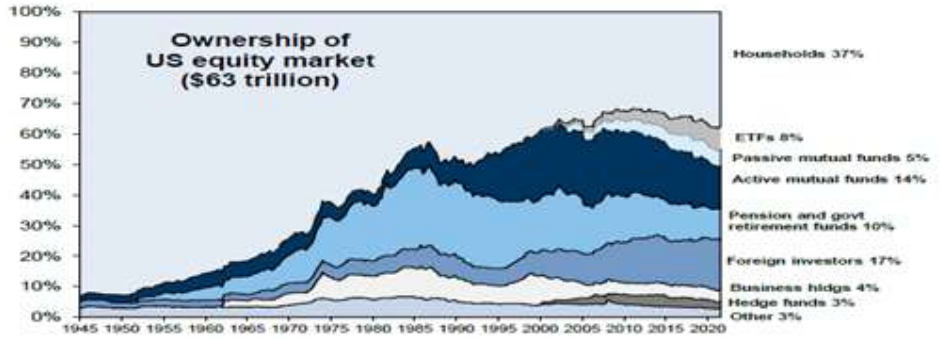
Bottom line should be the clear return of the Bull

Is It a Return to the 0s Or Really to the 0s

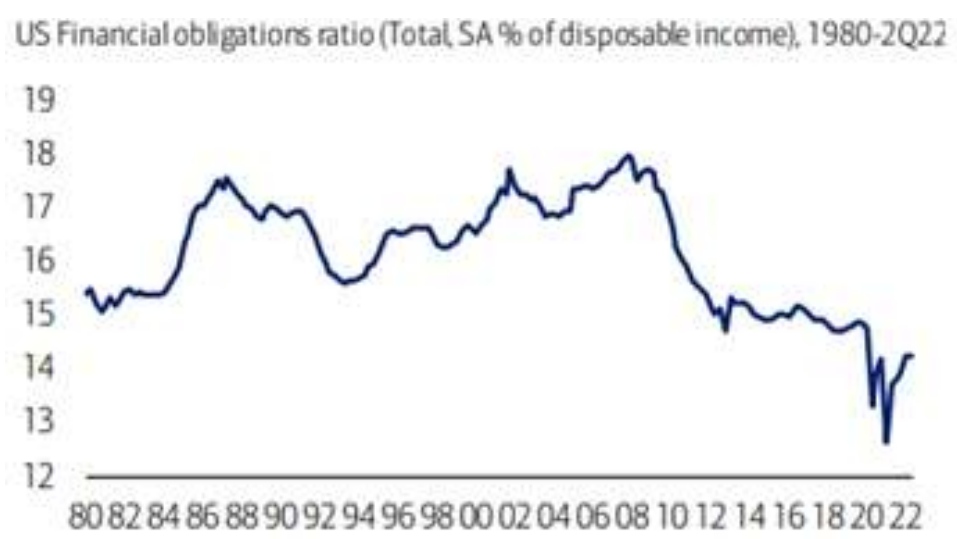
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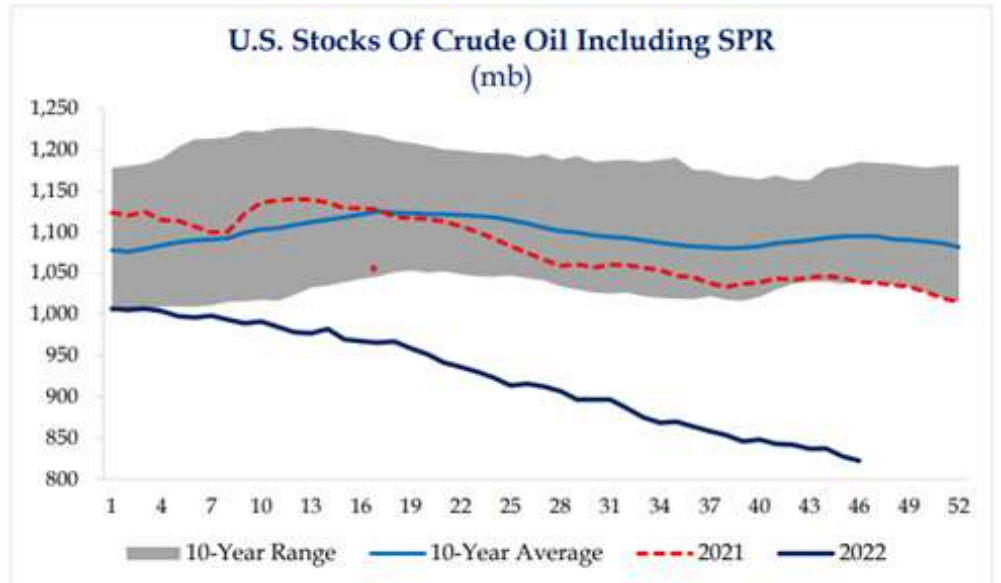
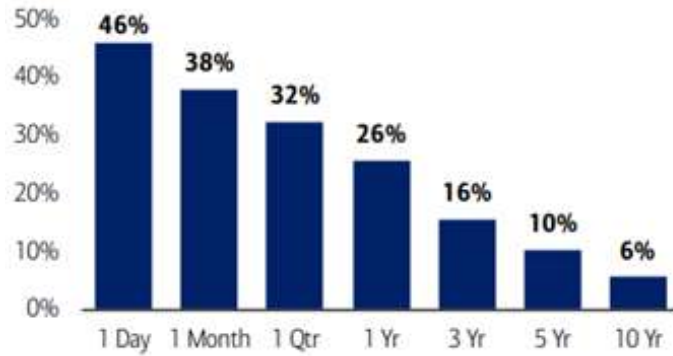


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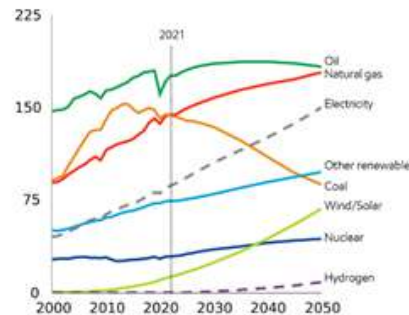
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Probability of negative returns, based on S&P 500 total returns from 1929-10/2022

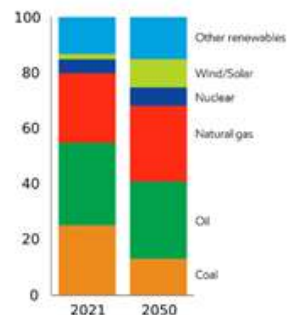


Global energy mix shifts to lower-carbon fuels

Primary energy – Quadrillion Btu



Percent of primary energy



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Examining future demand for the various energy components we see the biggest decline is seen in coal and the largest increase is in electricity followed by wind solar. Natural gas demand is up sharply and importantly the demand for oil remains the highest of the primary energy sources with a year forecast of only a modest decline. The demand forecast is bullish for the energy sector overall.

The global population is expected to grow an additional billion from billion in to over billion in Increased energy demand will come from emerging markets and developing economies

The world energy supply is forecast to increase by

The world would need twice as much energy as it produces today if it weren't for continuous improvements in energy efficiency

Natural gas demand will increase by Many nations are looking to natural gas for affordable and reliable electrical power generation that produces lower emissions than coal

Total oil demand will increase While the use of oil for transportation will peak growth in petrochemicals means more oil will be needed in the future

There will be growth in global electricity generation Currently million people worldwide still live without access to electricity

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The Reuters Commodity Research Bureau Index rose the fastest in history in Economies cannot handle such a rapid rise in pricing without causing inflation Right now prices are falling but history has shown that one more rally typically occurs before there s a peak in prices Fundamentally shortages still exist for many commodities This is good for the commodity sensitive sectors



| Index | Performance During Periods of a Falling Dollar (Annualized) | | | | | | | | | |
|---------------------------------|---|------------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|---------------------|--|--|
| | 9/30/1989 2/28/1991 | 1/31/1994 4/30/1995 | 2/28/2002 1/31/2004 | 11/30/2005 3/31/2008 | 3/31/2009 7/31/2011 | 10/31/2016 2/28/2018 | 4/30/2020 1/31/2021 | Average (Sorted) | | |
| Crude Oil WTI | -3.40% | 26.50% | 24.40% | 27.80% | 32.50% | 22.80% | 219.50% | 50.00% | | |
| Copper | -8.00% | 35.70% | 27.40% | 34.30% | 46.30% | 30.10% | 89.20% | 36.40% | | |
| S&P GSCI Commodity Index | -0.70% | 2.80% | 22.40% | 22.60% | 32.10% | 16.50% | 91.40% | 26.70% | | |
| S&P 500 Information Technology | 8.50% | 32.10% | 4.80% | 1.60% | 27.80% | 36.50% | 47.80% | 22.70% | | |
| MSCI Emerging Markets | 10.60% | -14.70% | 21.10% | 27.00% | 38.20% | 26.10% | 47.80% | 22.30% | | |
| S&P 500 Materials | -2.00% | 9.90% | 8.00% | 17.10% | 30.40% | 22.30% | 64.40% | 20.90% | | |
| S&P 500 Industrials | 4.40% | 6.00% | 0.70% | 9.00% | 33.00% | 24.50% | 60.20% | 19.70% | | |
| Russell 2000 | -7.20% | 0.20% | 13.30% | 1.90% | 32.90% | 21.20% | 67.80% | 18.60% | | |
| S&P 500 Financials | -10.00% | 3.50% | 9.50% | -7.40% | 26.30% | 35.30% | 63.70% | 17.50% | | |
| S&P 500 Energy | 15.00% | 10.40% | 5.30% | 21.30% | 26.70% | 0.90% | 39.60% | 17.00% | | |
| S&P 500 | 7.30% | 8.50% | 2.90% | 4.50% | 25.50% | 22.60% | 42.70% | 16.30% | | |
| S&P 500 Health Care | 27.50% | 22.70% | -1.80% | 2.30% | 17.80% | 20.20% | 23.80% | 16.10% | | |
| Russell 1000 | 2.50% | 5.20% | 3.70% | 4.40% | 26.50% | 22.40% | 45.50% | 15.80% | | |
| MSCI EAFE | -7.60% | 2.90% | 12.40% | 13.90% | 26.40% | 20.30% | 41.20% | 15.60% | | |
| S&P 500 Consumer Staples | 24.20% | 17.40% | 0.90% | 11.00% | 20.90% | 3.70% | 22.80% | 14.40% | | |
| S&P 500 Consumer Discretionary | -2.50% | -4.20% | 1.80% | -1.70% | 37.30% | 25.90% | 41.40% | 14.00% | | |
| Gold | -0.60% | 1.00% | 17.20% | 30.10% | 27.50% | 2.60% | 11.40% | 12.80% | | |
| S&P 500 Communications Services | -4.30% | -0.20% | -8.00% | 10.90% | 15.80% | 2.50% | 47.50% | 9.20% | | |
| S&P 500 Utilities | 7.30% | -2.30% | -1.10% | 12.50% | 16.60% | 2.80% | 16.40% | 7.40% | | |

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A rebound in Commodities would benefit the Materials sector which appears to be bottoming relative to the S P



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| S&P 500 GICS Sectors for 12/1/2022 | 2023 Forward Price-Earnings Ratio |
|------------------------------------|-----------------------------------|
| Energy | 9.9x |
| Financials | 12.8x |
| Communication Services | 14.2x |
| Materials | 16.9x |
| Healthcare | 17.7x |
| Industrials | 18.5x |
| Utilities | 19.0x |
| Technology | 20.7x |
| Consumer Staples | 21.1x |
| Consumer Discretionary | 21.7x |
| Real Estate | 35.5x |

The cheapest sectors are in Value and the most expensive sectors are in Growth With interest rates still rising the risk is Growth stocks go down and the sectors most impacted are Technology and Consumer Discretionary Real Estate is the most at risk sector with rates up permits down mortgages demand down and challenges in the Private E uity market in real estate It is also the most expensive sector in the market



The COVID Growth bubble has popped Growth is likely to continue to deflate as its P E multiple remains high at x and interest rates are still expected to rise an additional igh rates and high P E don t work well in a rising rate environment On the flip side Value is trading at a forward P E multiple of x

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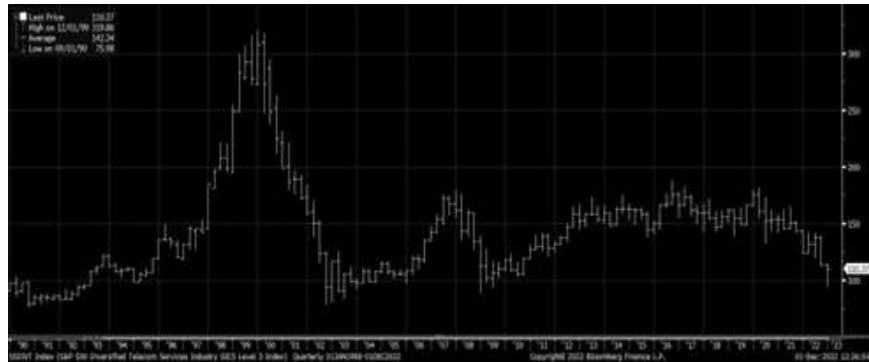


The Dow Jones Industrial Average (DJIA) used to be the market index voted all the time but over time the S P became the favored proxy. The DJIA is a concentrated index of stocks that are hand picked by a committee. As the Index is light on Growth stocks it is proving to be one of the best performing broader market indexes. You will see in the accompanying chart how relative to the S P the Dow is outperforming. Expect this to continue. Note Mega Cap and Large Cap can do well in a portfolio it is not large versus Small. It is about owning quality companies with good valuations, good cash flows and earnings.



It is about owning quality companies with good valuations, good cash flows and earnings.

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The international markets have underperformed the S market for years. These markets are much cheaper than the S with MSCI Europe trading at x forward earnings and MSCI Emerging Markets trading at x forward earnings. We will be watching for an opportunity in to shift some assets to non S markets. A catalyst that may have started the rally is China opening again. Another indication would be a peak in interest rates followed by a peak in the S Dollar and . because Emerging Markets are commodity sensitive . a rally in Commodities would complete the perfect storm and spark a sustainable rally in Emerging Markets



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This would be the best buying opportunity in over a decade



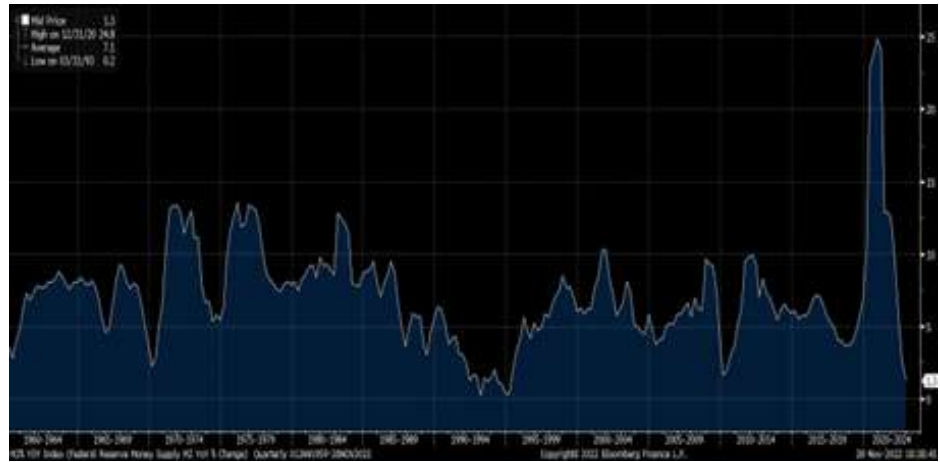
Source: Bloomberg, December 1, 2022

S&P 500 earnings estimate revision ratio, 1/86-10/22



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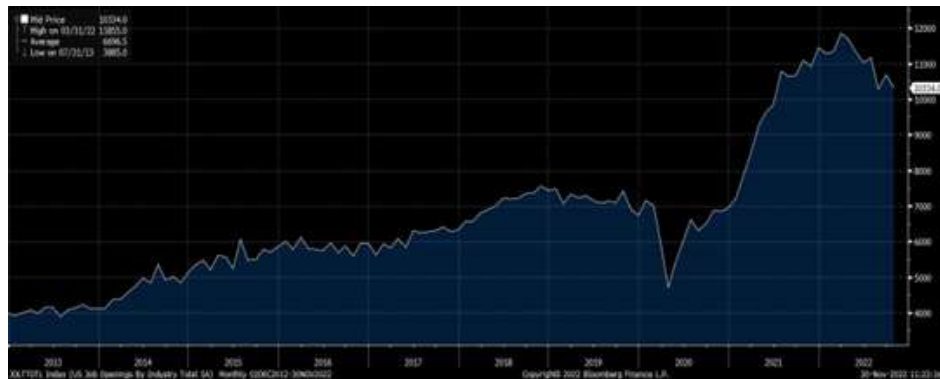
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Fewer obs and higher
 unemployment should lead to
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