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MARKET LANDSCAPE | Q1 2022

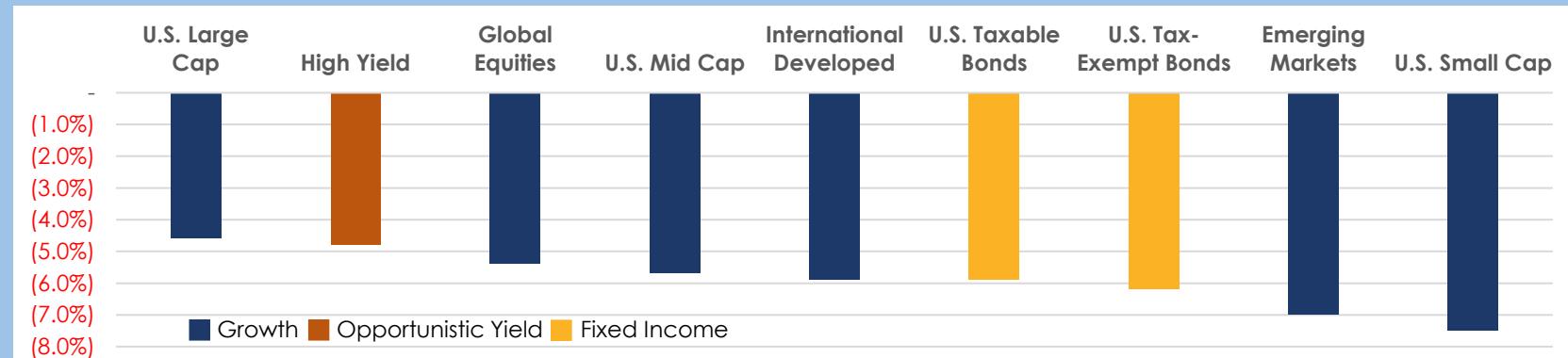


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Q1 PERFORMANCE SUMMARY

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Q1 Asset Class Performance



Quarterly Recap

Equity markets worldwide fell in the first quarter of 2022 as pre-existing supply chain disruptions coupled with spiking commodity prices following the Russian invasion of Ukraine further fueled inflationary pressures and accelerated market expectations for a tighter monetary policy from central banks. As expected, the Federal Reserve hiked interest rates by 0.25% in March and signaled further rate increases as well as a reduction in the Fed balance sheet in coming months. While market volatility has increased, we believe the US economy can weather the headwinds and continue its post-COVID expansion.

Q1 2022 Economic & Market Highlights

- Global equity markets posted negative returns, with the MSCI ACWI index falling -5.4% for the quarter, led by emerging markets (-7.0%) and international developed markets (-5.9%), while the US (-4.6%) fared slightly better.
- Rising inflation pushed interest rates higher, with the 10-Year US Treasury yield rising by 83 bps to 2.34% during the quarter, a new post-pandemic high. As a result, bond markets declined with the US Barclays Aggregate Bond index returning -5.9%.
- US GDP grew at an annualized rate of +5.5% for Q4 compared to the same quarter a year ago as companies replenished inventories and consumers continued to spend. Due to higher inflation and geopolitical risks, Q1 GDP growth is expected to decelerate to +4.2%.
- The yield curve briefly inverted in March, a key indicator for the past 5 recessions. However, a strong labor force and positive corporate earnings continue to support the economy. We would expect to see weakness in these areas before a recession appears.

We have a positive fundamental outlook for the economy and risk assets but expect volatility to remain elevated due to the Fed's aggressive tightening policy and geopolitical risks.

Macroeconomic Outlook

- **GDP:** We expect GDP growth to be around 3% for 2022 as positive fundamentals are offset by inflation and tightening monetary policy.
- **Inflation:** We believe inflation will remain elevated in the first half of 2022 before beginning to ease thereafter, as supply chain disruptions are relieved. Elevated commodity prices stemming from Russia's invasion of Ukraine will remain a risk.
- **Corporate Earnings:** We anticipate earnings for the S&P 500 to grow in the high single-digits for 2022, which would be a moderation from the double-digit pace during the pandemic recovery, but still a strong increase.
- **Federal Reserve:** After the Fed's first rate hike in March, we expect further increases in interest rates along with balance sheet runoff in 2022.

Market Outlook

- **Equities:** We have a positive view on the equity market, led by US stocks, where we see mid to high single-digit total returns for this year. We are constructive on cyclical sectors, such as energy, financials, and industrials, along with our secular overweight to technology.
- **Fixed Income:** We anticipate interest rates to remain elevated in the near-term, which will pose challenges for the bond market in 2022. We continue to prefer corporates over Treasuries.
- **Higher Yielding Assets:** Bank loans, high yield bonds, preferred stocks, and real estate investment trusts are attractive given their higher yields and lower durations relative to government bonds.

KEY RISKS

NEAR TERM

Yield Curve Inversion

- The 2Yr/10Yr spread briefly inverted in March, which historically has signaled an upcoming recession. However, the timing and severity of a potential recession is unknown.
- Stocks typically perform well following the initial inversion, and we believe equities offer the best risk-adjusted returns in today's market environment. As companies' earnings estimates change over the next 12 months, we will continue to track the stress signals stemming from March's inversion.

Geopolitical Conflicts

- The Ukraine-Russia conflict is continuing to receive headlines and sanctions on Russia are mounting from multiple countries.
- Russia's next move cannot be underestimated, and the main market risk revolves around a potential invasion of Poland, forcing NATO to get involved. Most of the sanctions will likely have longer-term impacts even after the current conflict is resolved.

LONGER TERM

Runaway Inflation

- The Fed acknowledged that inflation is no longer transitory and has started increasing the Fed Funds rate to counter it. However, the Fed rarely has navigated a "soft landing" when it comes to balancing inflation and economic growth, which could prolong inflation if poorly executed.
- Since 1947, there have been 11 recessions following increases in the federal funds rate, and only 3 times where "soft landings" have been successful. Today's pandemic and inflationary environment are adding unique challenges this time around, but we will continue to monitor the risks.

Global Impact from Sanctions

- The Ukraine-Russia conflict raises questions about the continuation of globalization and about the ability of any country to act against the wishes of the international community with impunity.
- Trade between the United States and Russia/Ukraine is relatively insignificant, but the crisis could spill over into the United States if the European economy suffers. Additionally, these two countries are major producers of commodities that are vital for semiconductors and batteries, which could extend current supply shortages.

KEY OPPORTUNITIES

NEAR TERM

Diversified Portfolios Offer Hedges

- There are many unknowns in the market right now concerning inflation, interest rates, the Fed, equity valuations, geopolitics, and supply chains. Diversified portfolios offer protection against unnecessary risks until we get further clarity on these topics.
- If we are in a new bear market cycle for bonds and a high inflationary environment, we are likely in the very early stages and have time to capitalize on this new market regime.

Quality at a Discount

- Ongoing volatility stemming from the pandemic, geopolitical conflict, and inflation concerns has discounted highly profitable companies and has created attractive entry points, especially in the technology sector.
- We see opportunity arising the rest of the year as headlines may further cut valuations of quality, growth-oriented companies.

LONGER TERM

Energy Independence

- Current geopolitical conflicts will increase demand for alternative energy sources produced domestically.
- Increasing our energy independence will create new job opportunities and reduce risk from potential international conflicts in the future.

Market Corrections Bring Long-Term Stability

- The pandemic brought swift and strong responses across all market participants, including governments, central banks, and companies. These actions resulted in nearly a 100% return of the S&P 500 since the March 2020 lows.
- We see short-term market corrections needed right now to provide long-term stability to the stock market. Market returns should rely on corporate earnings and economic growth, not just stimulus shocks as we have seen over the past two years.

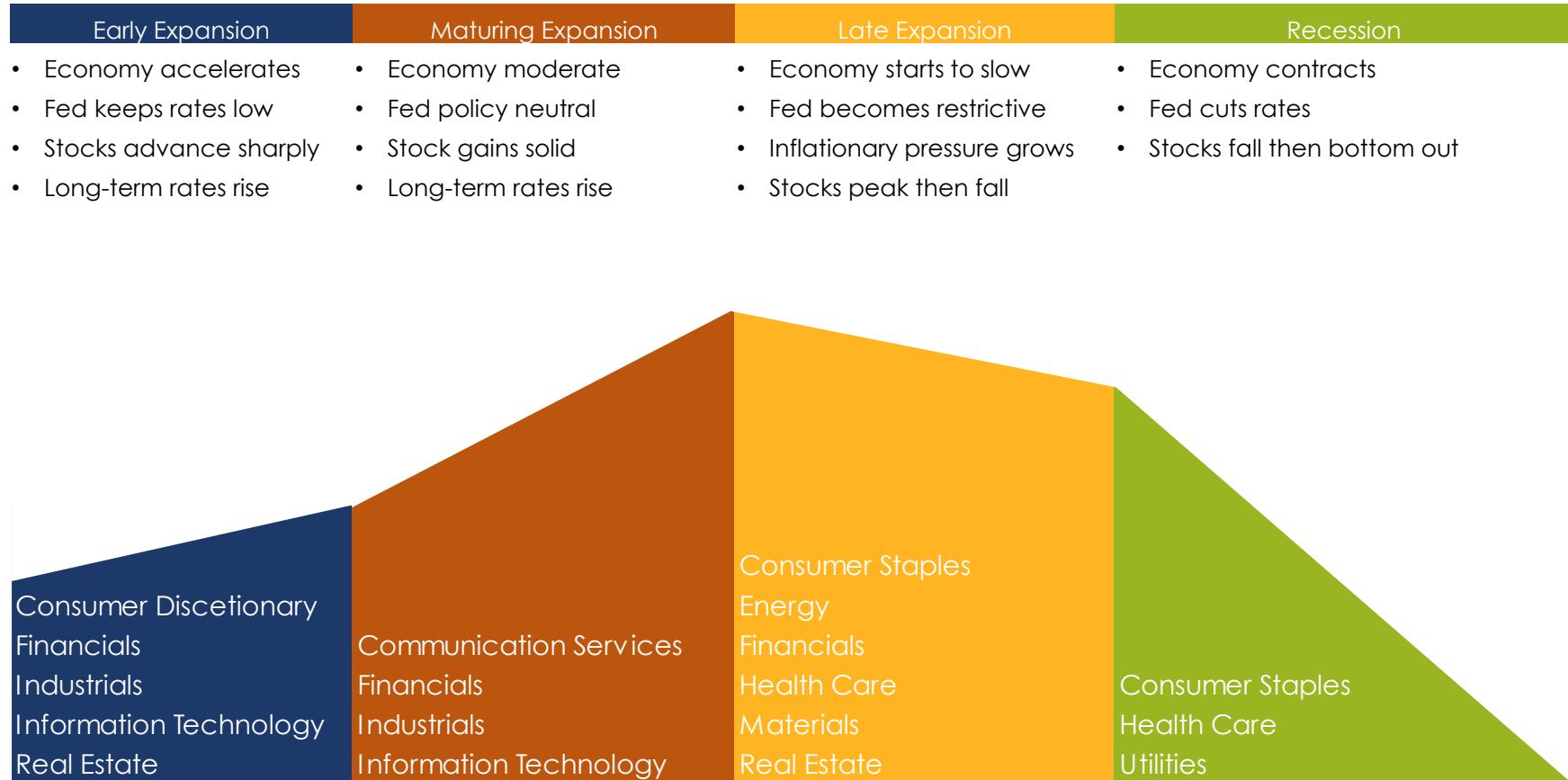
THE BUSINESS CYCLE

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Inflationary pressure has taken center stage, as the business cycle looks to move firmly into a late expansion phase.

Investment Outlook: As noted last quarter, we saw value outperform growth during Q1. Late expansionary sectors produced 6 of the top 7 performing sectors for the quarter, and we expect this trend to continue as the Fed reduces its balance sheet.

Economy



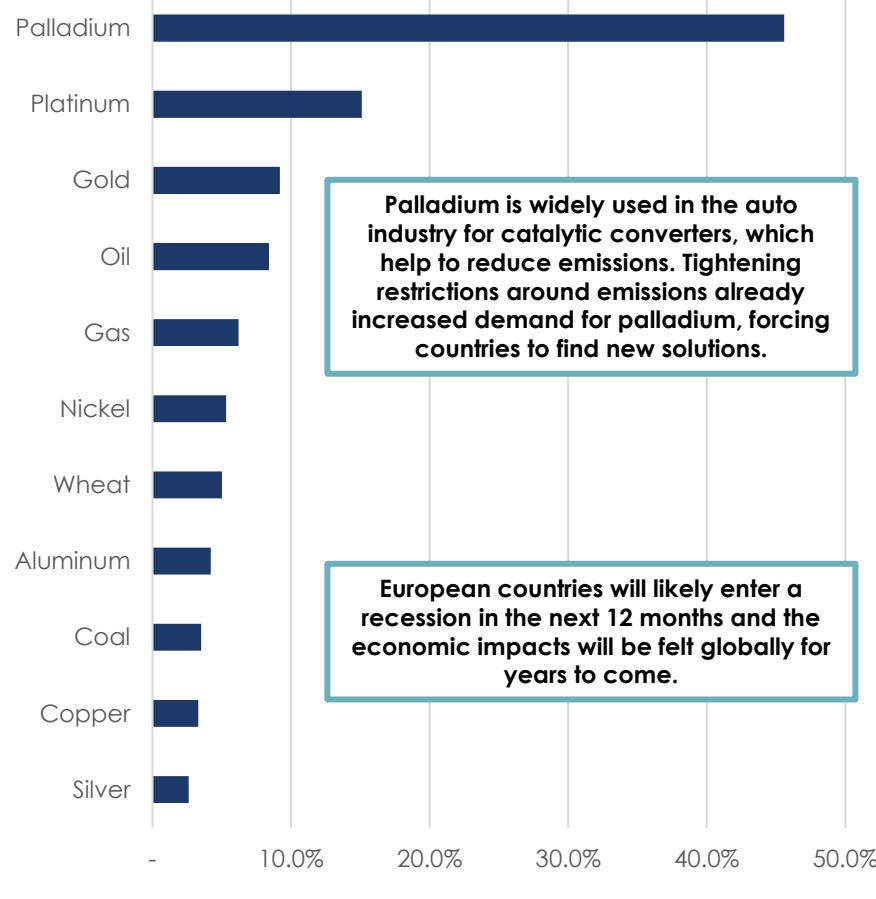
RUSSIA'S CONTRIBUTION TO THE WORLD

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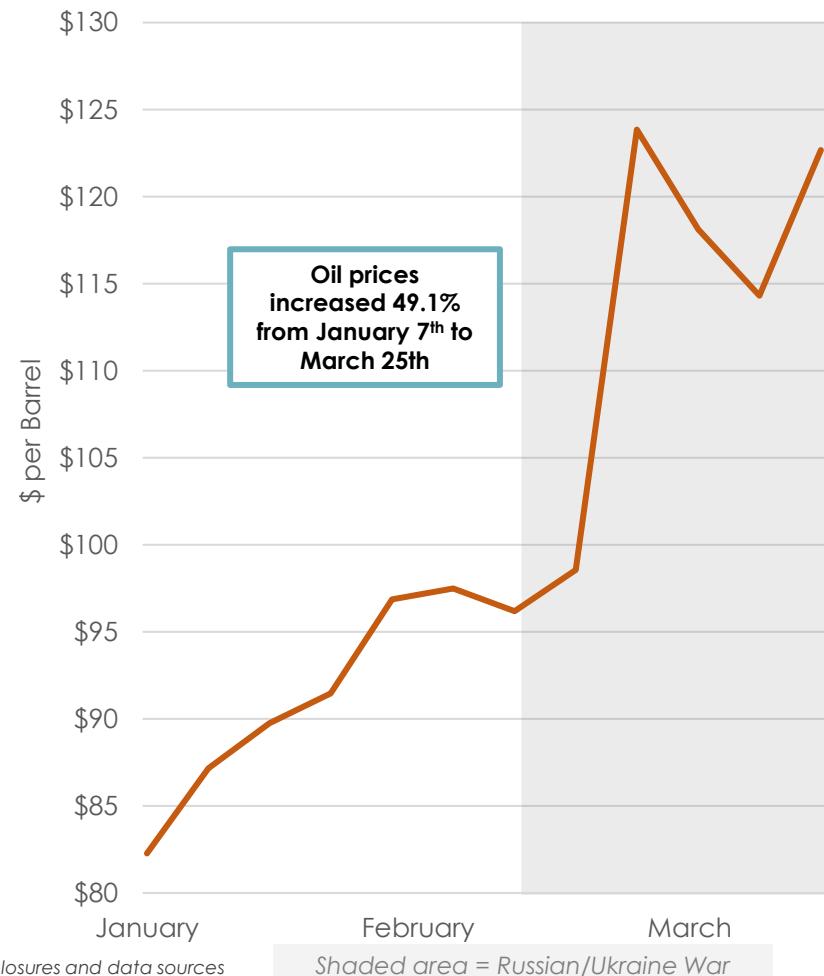
Sanctions against Russia have put pressure on the price of key commodities causing supply side concerns for the global economy.

Investment Outlook: The war between Russia and Ukraine will hopefully be short-lived, but the economic impacts will last years after the conflict's resolution. However, Russia's contribution to the US economy is relatively small compared to Europe, which will likely enter a recession soon.

Russia's Exports as a Share of Global Production



Crude Oil Prices in Europe

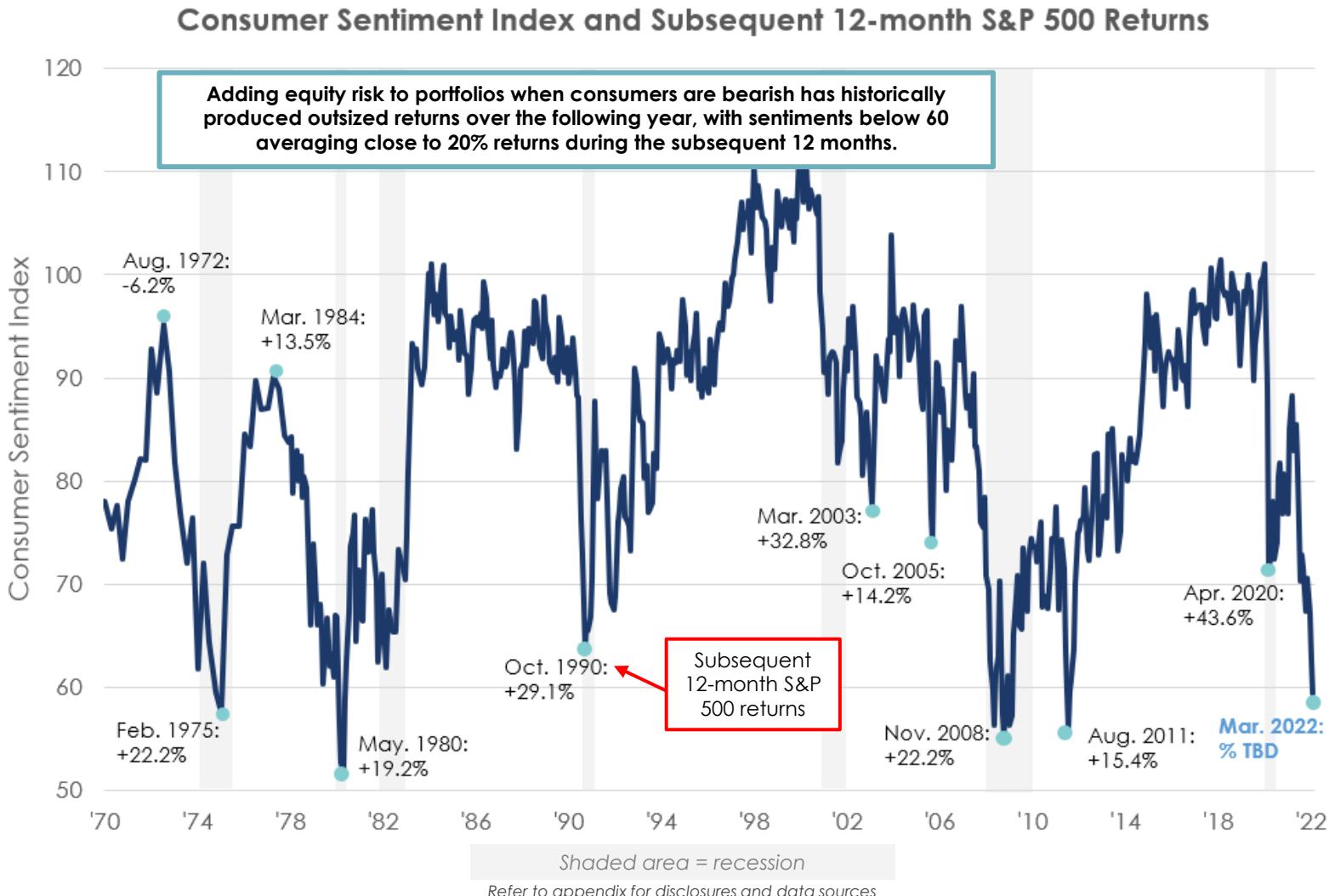


CONSUMER SENTIMENT SHOWING BUYING OPPORTUNITY

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Consumers' concerns intensified over the quarter, led by inflation and geopolitical tensions.

Investment Outlook: Looking through the noise, economic data is still supporting a growing economy thanks to a robust labor market. Market volatility over the next few months may provide discounted buying opportunities.

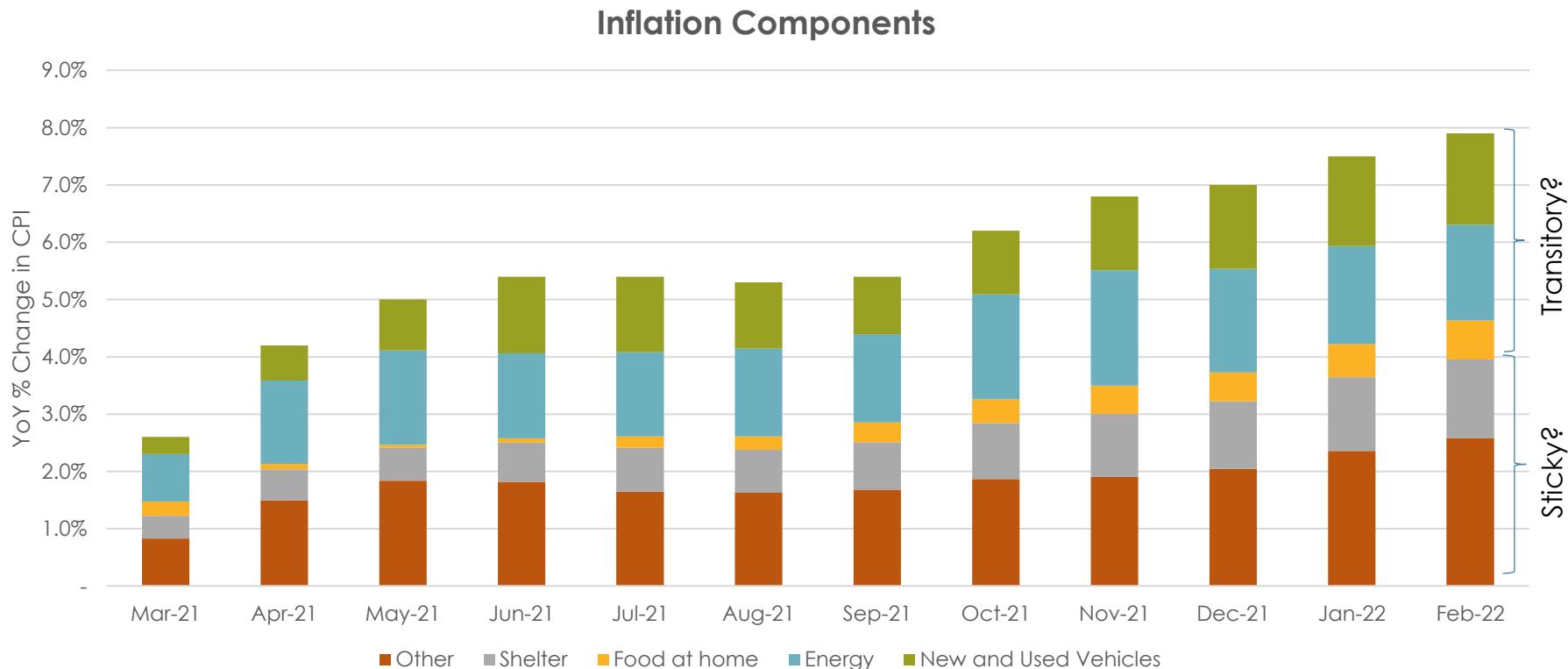


INFLATION COMPONENTS

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The consumer price index for March rose 8.5% from a year ago, with the peak most likely coming in the next few months.

Investment Outlook: Few investors understand the components of inflation. Although core components have started increasing, we are still seeing elevated transitory components, which we expect to recede during the second half of 2022.



- Inflation soared to 8.5% YoY in March, however, the transitory components are expected to return to their long-term average in the second half of 2022.
- Used car prices declined over 5.0% from their January peak with corrected supply chain issues continuing to bring the prices down.

CONSUMERS SPEND LESS ON ENERGY AND FOOD

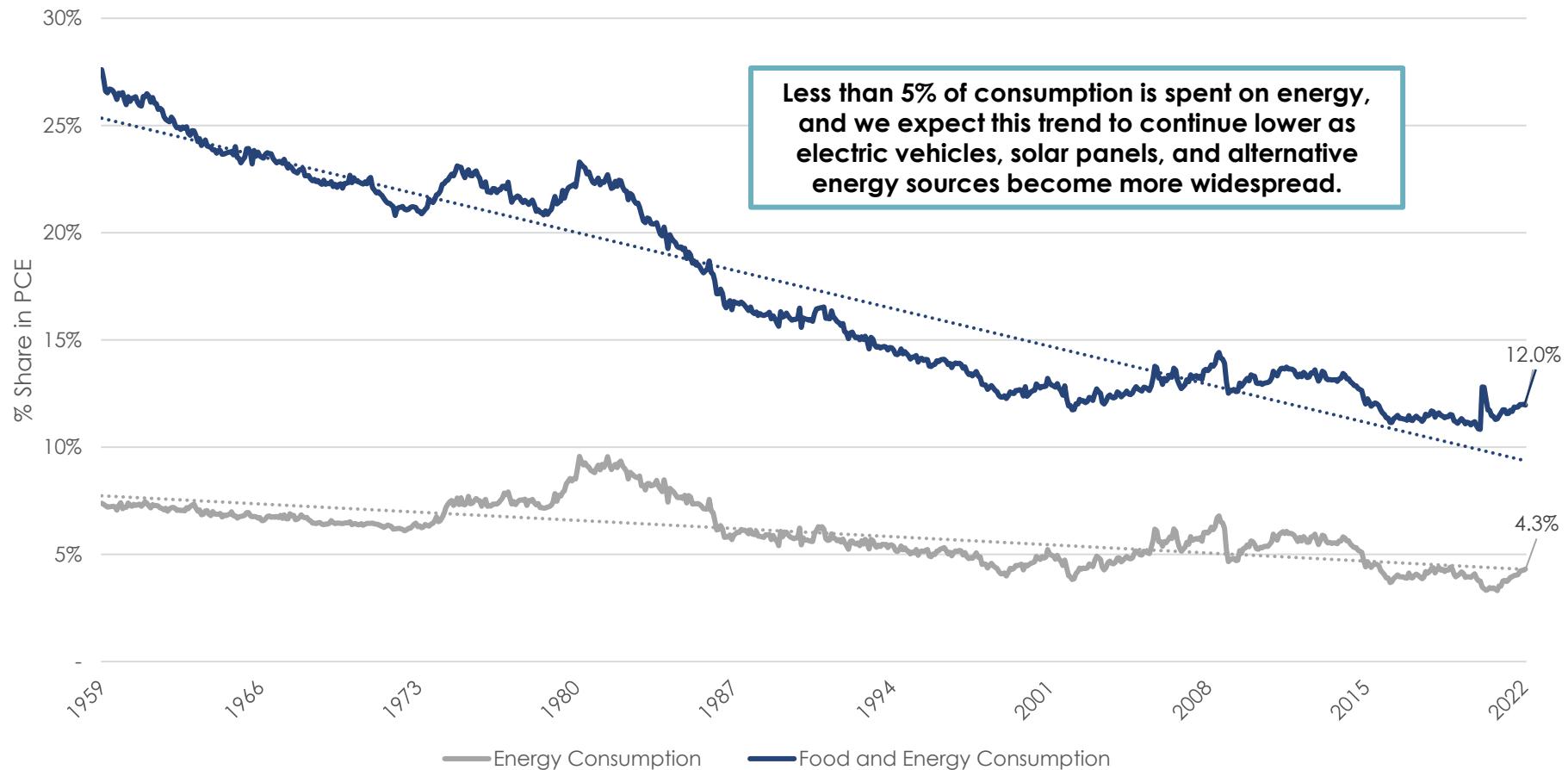
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Energy and food prices are receiving much of the inflation attention, but today's economy is much different than the 1970s.

Investment Outlook: As more transportation/food comes from alternative sources, consumers are less reliant on traditional prices as in the past. With a tight labor market and emerging technology, consumers may be able to live with higher inflation in the short-term.

Commodity Consumption

Economy



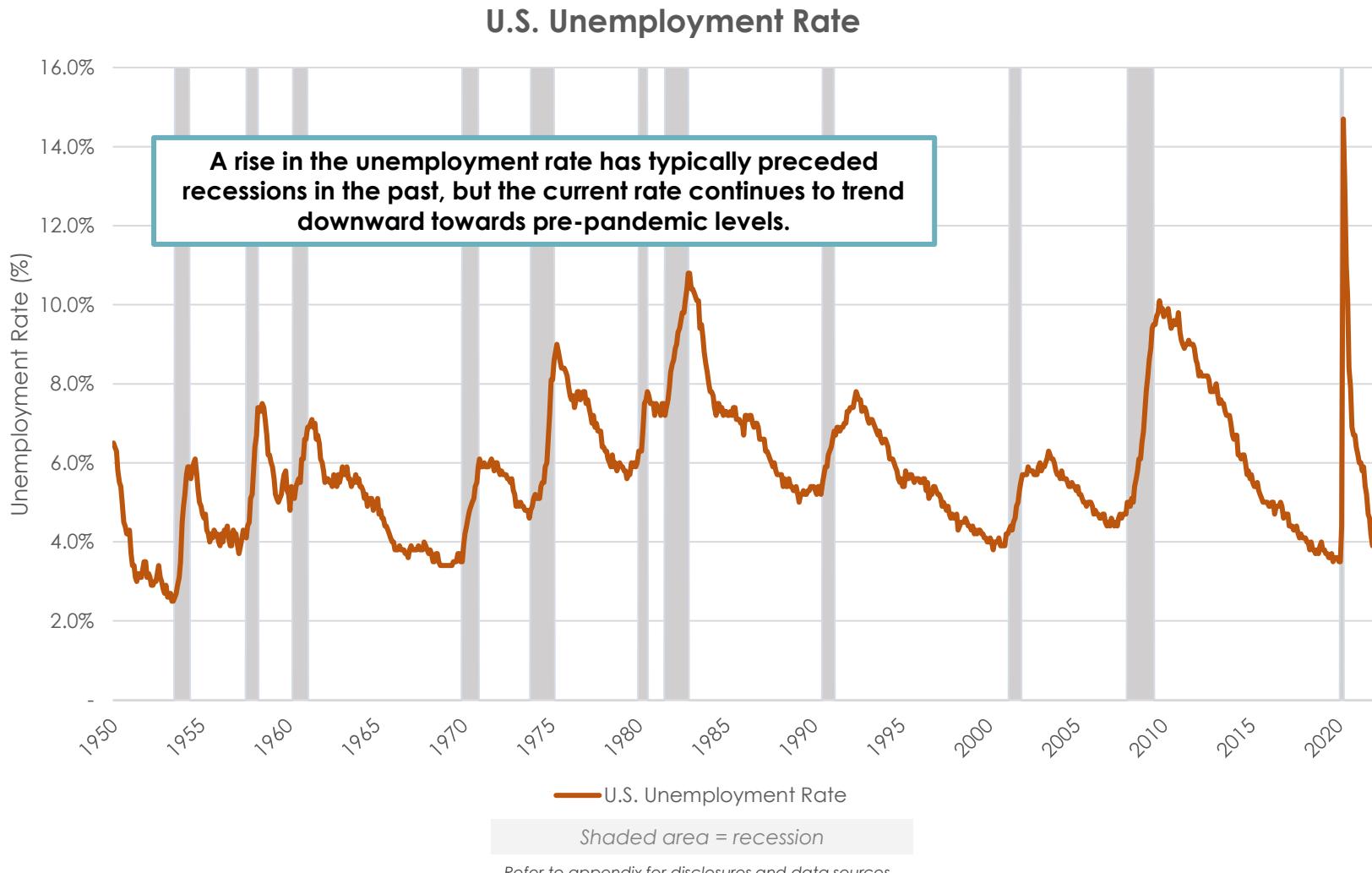
Refer to appendix for disclosures and data sources

STRONG LABOR FORCE IS KEEPING ECONOMY AFLOAT

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Some economists are predicting the U.S. unemployment rate could fall below 3% this year for the first time in nearly 7 decades.

Investment Outlook: The post-pandemic labor market is favoring employees, as they are finding jobs that allow flexible conditions, locations, and benefits. We are monitoring this area, as most recessions start with a weakening labor force, which is not currently the case.

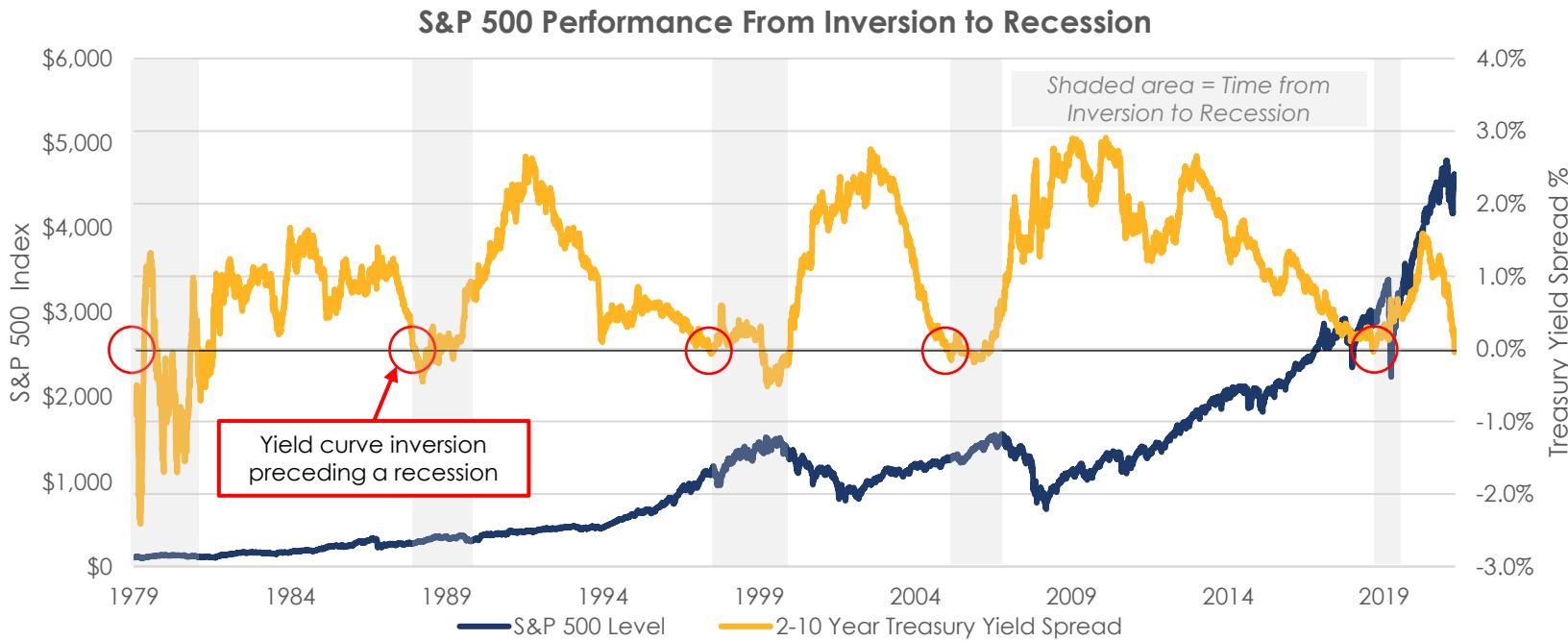


WILL THE INVERSION BRING A RECESSION?

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The 2- and 10-year yield spread briefly inverted during March, a historically ominous forecast for the outlook of the US economy.

Investment Outlook: The previous 5 recessions have all been preceded by an inverted yield curve. Although there are stresses in the system, we see strong earnings and labor markets pushing returns higher in the short term.



Yield Curve Inversion Date	Recession Onset	Months from Inversion to Recession	S&P 500 Cumulative Return From Inversion to Recession
8/18/1978	January 1980	17	15.8%
9/11/1980	July 1981	10	11.6%
12/27/1988	July 1990	19	35.7%
6/8/1998	March 2001	34	15.2%
12/27/2005	December 2007	24	21.1%
8/27/2019	February 2020	6	17.5%
Average		18	19.5%

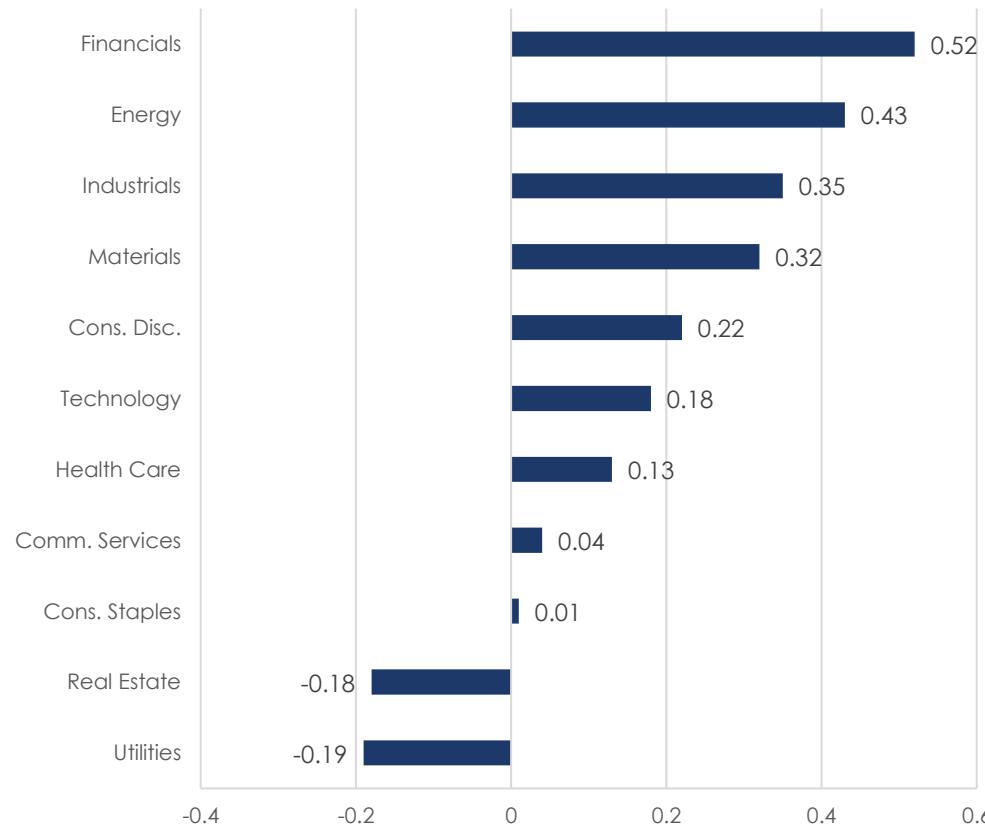
Refer to appendix for disclosures and data sources

Fixed income traditionally provides safe returns in a volatile market, but investors need to take more risk in this environment.

Investment Outlook: Value sectors including financials, energy, and industrials help to offset the rise of interest rates and we continue to favor these areas over the course of 2022.

S&P 500 Sector Correlations to U.S. 10-yr. Treasury Yield

10-yr correlations, monthly moves in yield vs monthly price returns



- The 3-month/10-year yield curve spread is at its steepest level in more than 5 years, a favorable sign for bank profits and the overall financial sector for the remainder of 2022.
- Investors need to keep in mind that these higher ranked sectors are only moderately correlated, and there are risk factors that need to be considered. The energy sector is a very small component of the S&P 500, with nearly half of its market cap connected to Exxon and Chevron.
- We believe a diversified portfolio with tactical overweightings generates the highest risk-adjusted returns over the long-run.

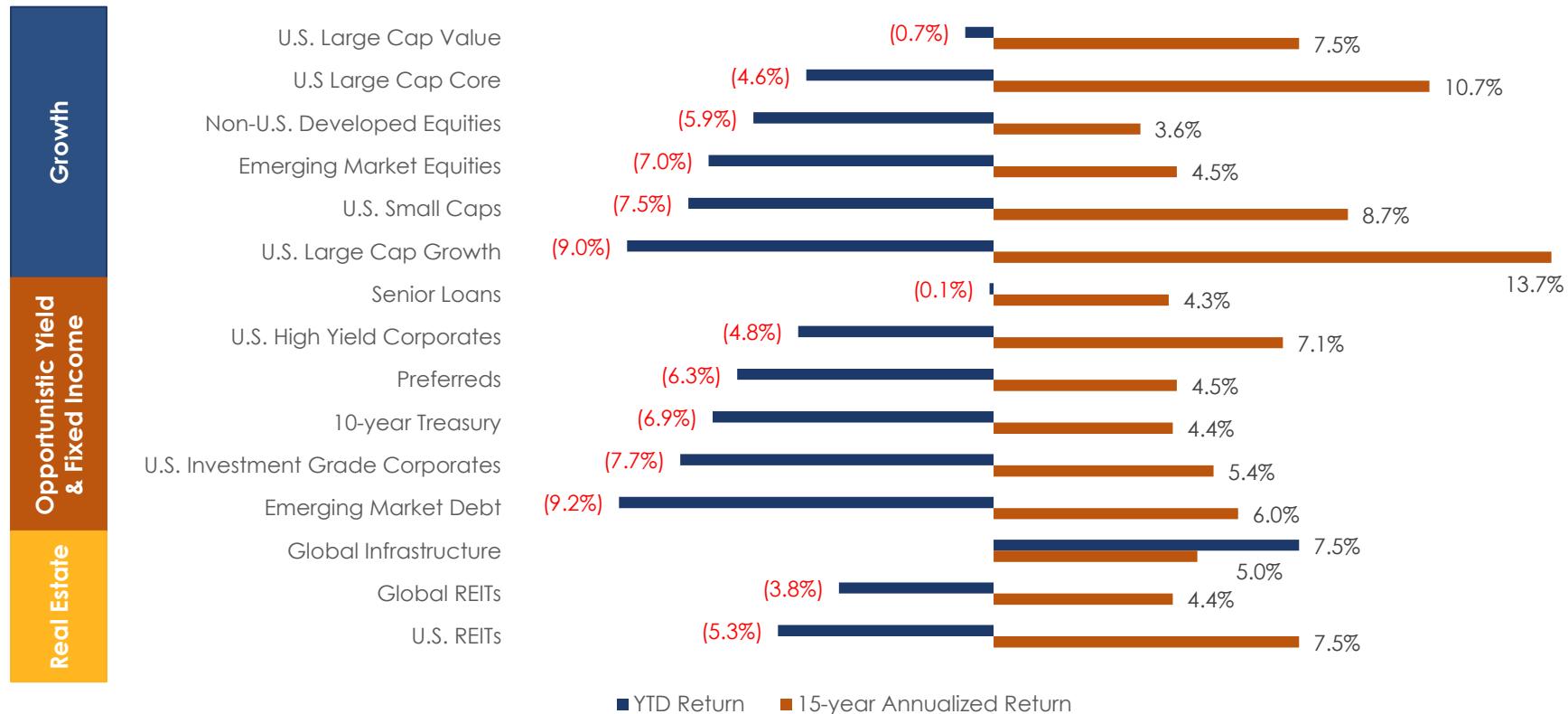
BRINGING NEW LIFE TO THE 60/40 PORTFOLIO

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The 60/40 portfolio, a combination of 60% equities and 40% bonds, historically generated returns over 6%.

Investment Outlook: A hawkish Fed will make returns harder to come by for equities, while interest rates attempt to keep up with inflation. Investors must understand the unique risks in alternative niche asset classes, which will continue to generate attention.

The 60/40 Portfolio in 2022



- Investors had nowhere to hide in Q1 2022, as both equity and fixed income asset classes suffered declines to varying degrees. We see quality, value-oriented areas as favorable within equities, while allocating appropriately to shorter duration investments in fixed income.

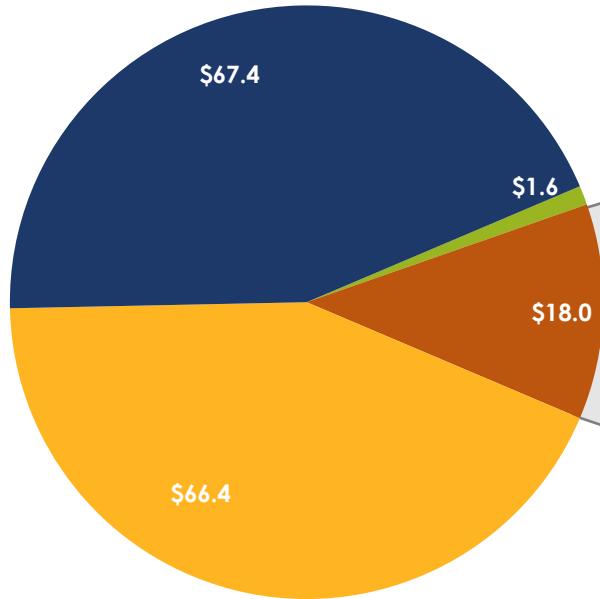
A LOOK AT THE INVESTMENT UNIVERSE

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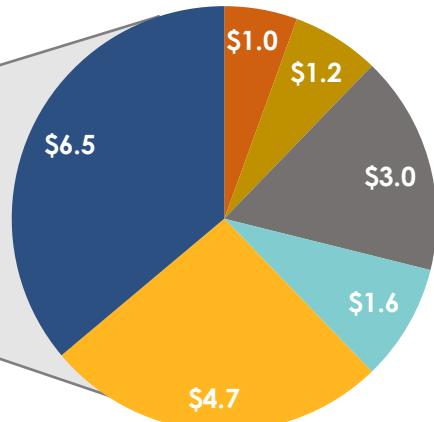
Stocks/bonds remain the bulk of investable assets, but new structures and relaxed regulations are starting to offer expanded options.

Investment Outlook: Despite being just 12% of the investment universe, alternative investments are expected to produce half of the industry revenue in just a few years. Investors need to understand their liquidity needs in order to capitalize on this trend.

Global Assets (\$Tn)



Alternative Assets (\$Tn)



- Inflation concerns, interest rate risk, and concentrated equity markets are all bringing new attention to alternative assets, which we expect to garner more attention over the remainder of 2022.
- A new age of portfolio construction is coming where investors may need to accept less liquidity to achieve similar returns.
- Advanced financial planning and in-depth investor education will be crucial for continued acceptance of the illiquidity.

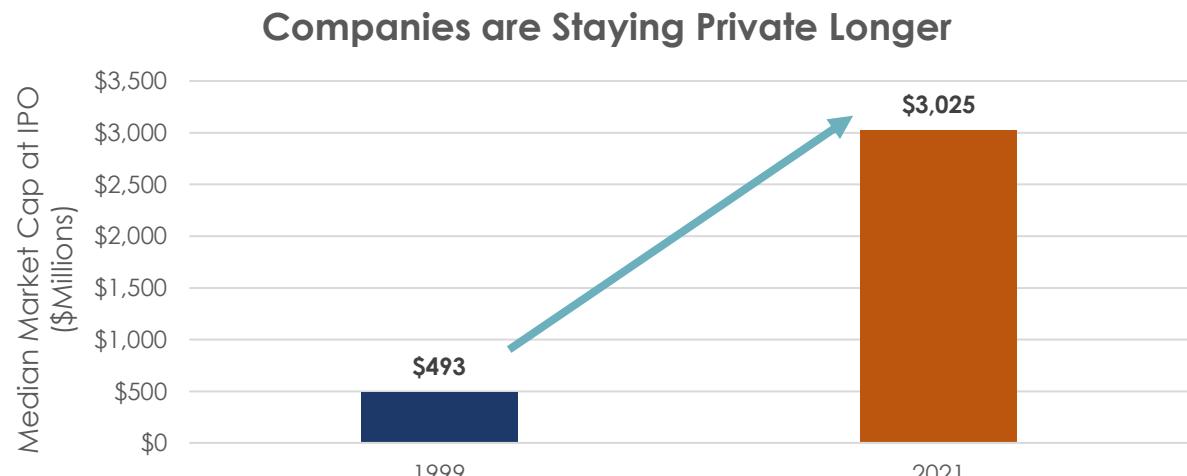
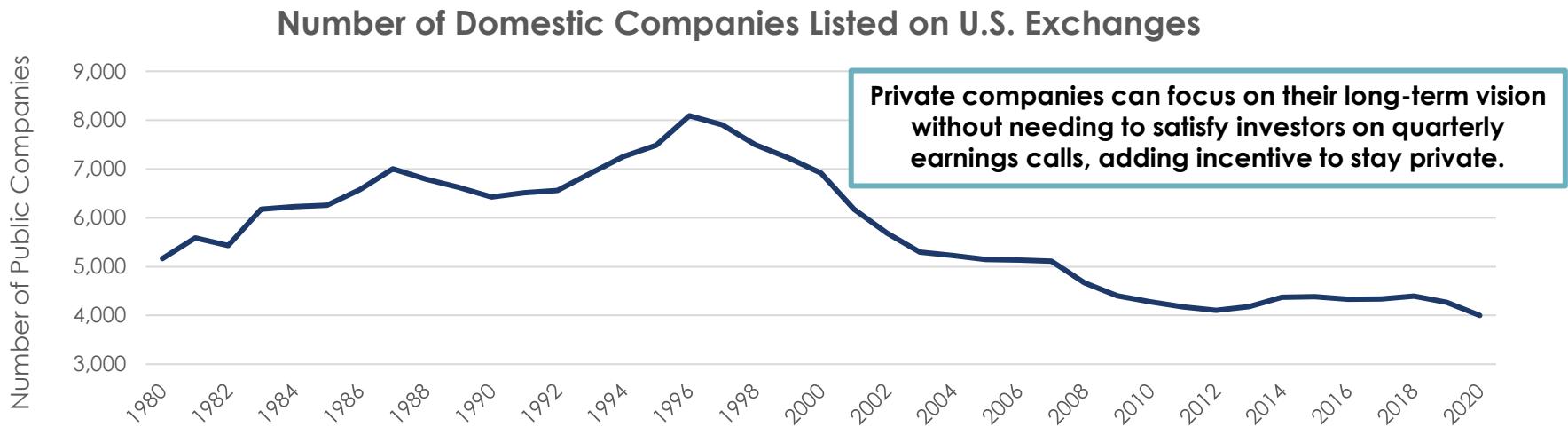
- 60/40 Portfolio
- Cash, 1.0%
 - Alternative Assets, 11.7%
 - Global Bonds, 43.3%
 - Global Equities, 43.9%

WHERE ARE THE PUBLIC COMPANIES GOING?

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Small and mid cap companies historically offered high return potential, but these same companies are now staying private longer in today's world.

Investment Outlook: Late-stage venture capital and private equity companies can provide an added boost to portfolios looking for alpha. Investors, however, need to be comfortable with added fees, illiquidity, and less transparency in the private markets.



- Companies on average are staying private 8 years longer today compared to 20 years ago, creating a missed opportunity in the public markets. These 8 years are typically a high growth period for companies with established product lines.

ASSET CLASS PERFORMANCE SUMMARY

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ASSET CLASS	PERFORMANCE		
	2022 Q1	2021	2020
Growth			
Global Equities	-5.4%	+18.5%	+16.3%
U.S. Large Cap Equities	-4.6%	+28.7%	+18.4%
U.S. Mid-Cap Equities	-5.7%	+22.6%	+17.1%
U.S. Small-Cap Equities	-7.5%	+14.8%	+19.9%
International Developed Equities	-5.9%	+11.8%	+7.8%
Emerging Markets Equities	-7.0%	-4.6%	+18.3%
Opportunistic Yield			
High Yield	-4.8%	+0.5%	+7.1%
Income & Stability			
U.S. Tax-Exempt Fixed Income	-6.2%	+1.5%	+5.2%
U.S. Taxable Fixed Income	-5.9%	-1.5%	+7.5%

Sources: YCharts as of 3/31/2022.

Performance values are the returns of the respective indices and are not inclusive of management fees: Global Equities = MSCI All Country World Index, U.S. Large Cap = S&P 500 Composite, U.S. Mid Cap = Russell Midcap, U.S. Small Cap = Russell 2000, International = MSCI EAFE Net, Emerging Markets = MSCI EM (Emerging Markets) Net, U.S. Tax Exempt Fixed Income = Bloomberg Barclays U.S. Municipal Index, U.S. Taxable Fixed Income = Bloomberg Barclays U.S. Aggregate Index, High Yield = Bloomberg Barclays U.S. High Yield Corporate Index. Past performance is no guarantee of future results.

IMPORTANT DISCLOSURES

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Slide 2: Performance numbers from YCharts as of 3/31/2022

Slide 5: S&P 500 returns from YCharts as of 3/31/2022

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Slide 15: Data published from CAIA's "Portfolio of the Future" dated March 2022

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