



ALLUVIAL
PRIVATE WEALTH

Chart Book

AS OF AUGUST 31, 2022

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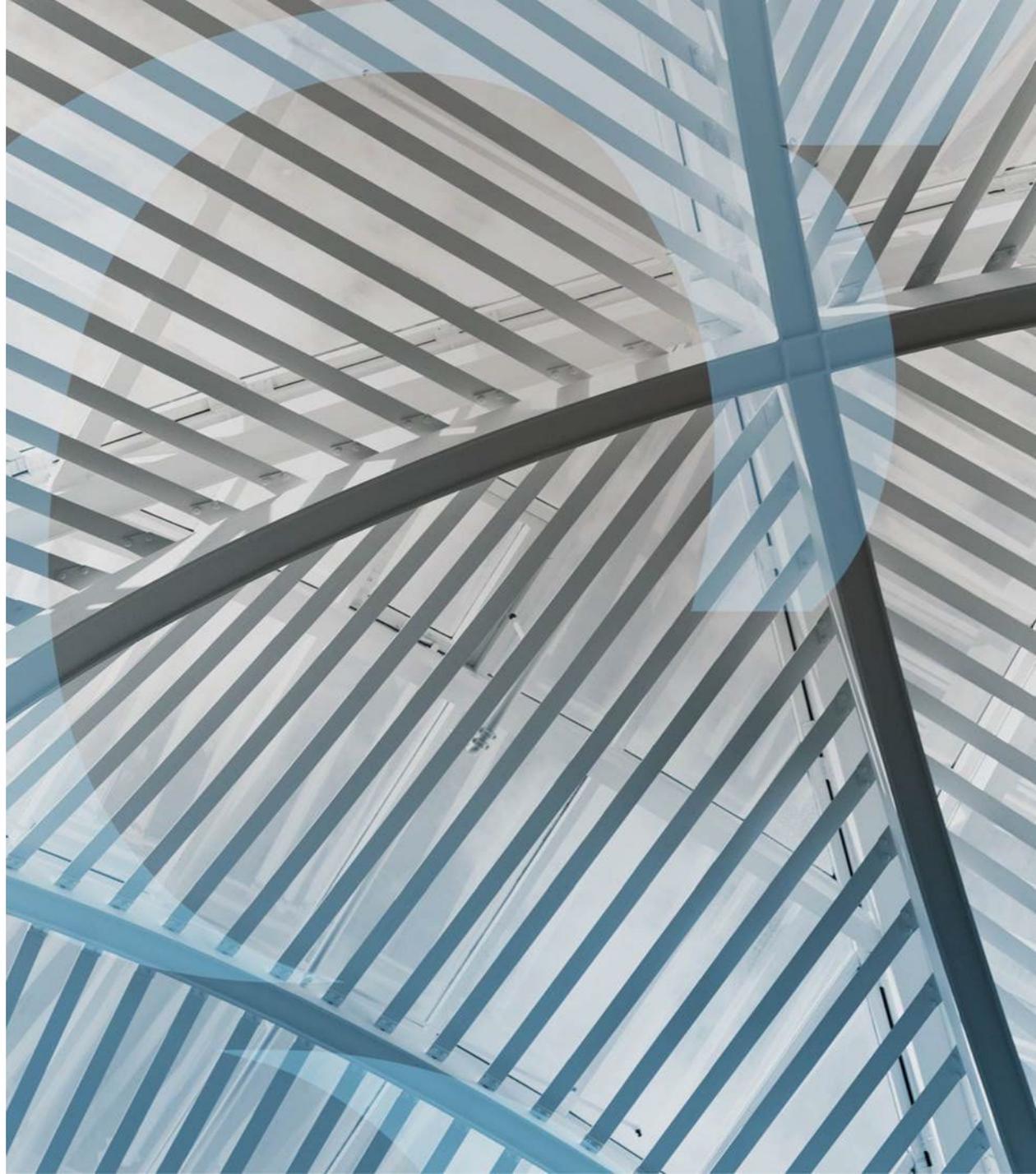
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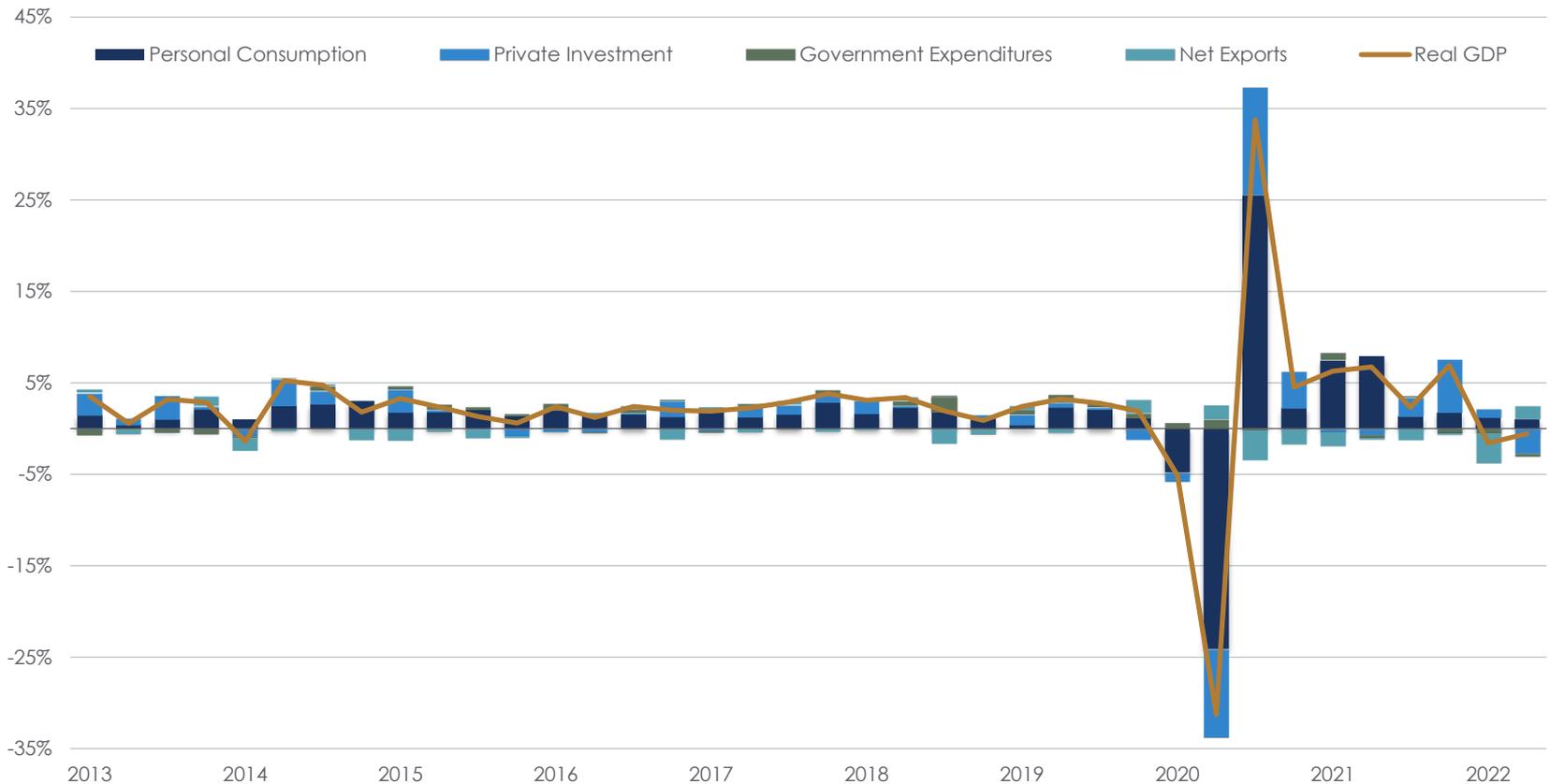


Economic Perspective

According to updated data released by the U.S. Bureau of Economic Analysis, the U.S. economy shrank at an annualized rate of 0.6% from April through June. The latest estimate shows an economy that has been contracting for two consecutive quarters, a threshold that's generally considered an indicator of a recession. Whether it's officially a recession might not matter to the average American. The past several months have been a time of historically high inflation that has not only eaten away at pay gains and savings accounts, but also Americans' optimism about the direction of the economy.

Economic Growth

Contributions to Percent Change in Real GDP (Annualized Q/Q % Change)

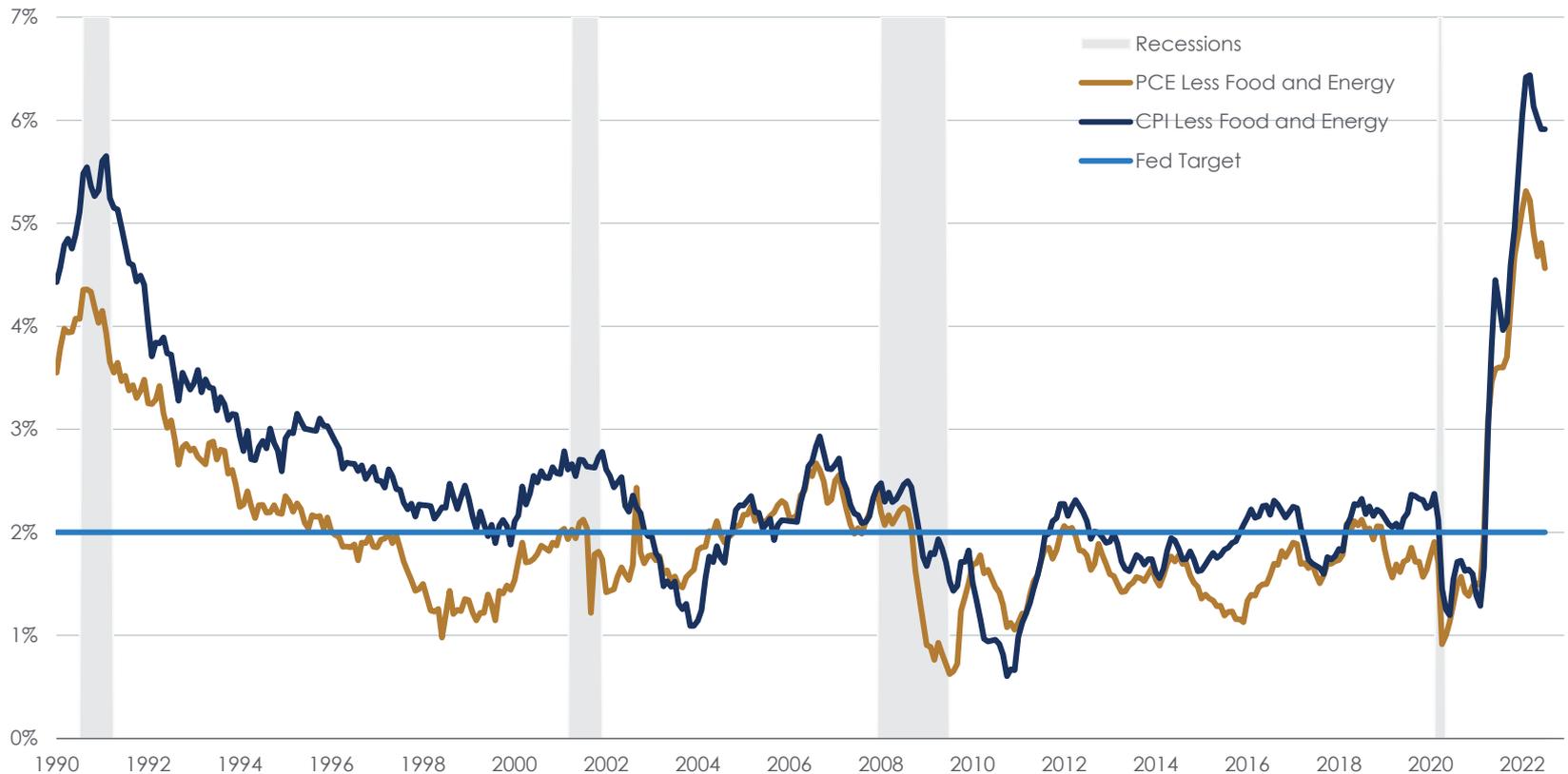


Source: U.S. Bureau of Economic Analysis (Reported quarterly)

Consumers and policymakers received a welcome reprieve as inflation cooled in July. The Consumer Price Index climbed 8.5% in the year through July, compared with 9.1% the prior month. After stripping out food and fuel costs, prices climbed by 5.9% through July, matching the previous reading. There are some real reasons to believe inflation will slow in the months ahead as supply chain pressures show signs of easing and oil prices are down ~30% from their 2022 peak. But there are also reasons to worry as wage growth and housing costs continue to climb, which could keep inflation elevated.

Inflation Outlook

Consumer Price Index (Core) and Personal Consumption Expenditures Price Index (Core) (Y/Y % Change)

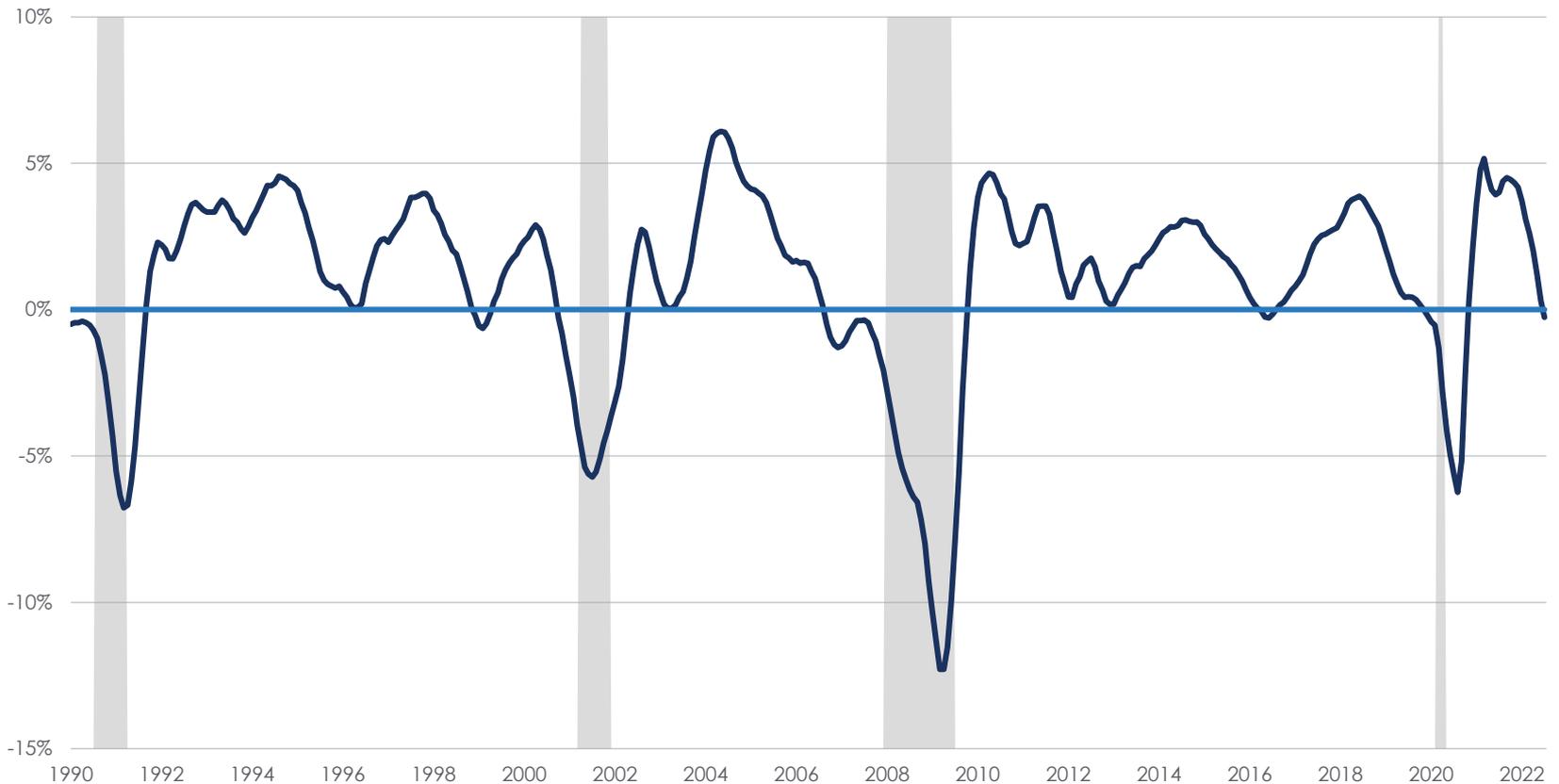


Source: U.S. Bureau of Labor Statistics, U.S. Bureau of Economic Analysis (Reported monthly)

According to the Conference Board, the U.S. LEI declined for a fifth consecutive month in July. Consumer pessimism and equity market volatility as well as slowing labor markets, housing construction, and manufacturing new orders suggest that economic weakness will intensify and spread more broadly throughout the U.S. economy. The Conference Board projects the U.S. economy will not expand in the third quarter and could tip into a short but mild recession by the end of the year or early 2023.

U.S. Economic Outlook

Leading Economic Index (Six-Month Moving Average of the Six-Month Rate of Change)

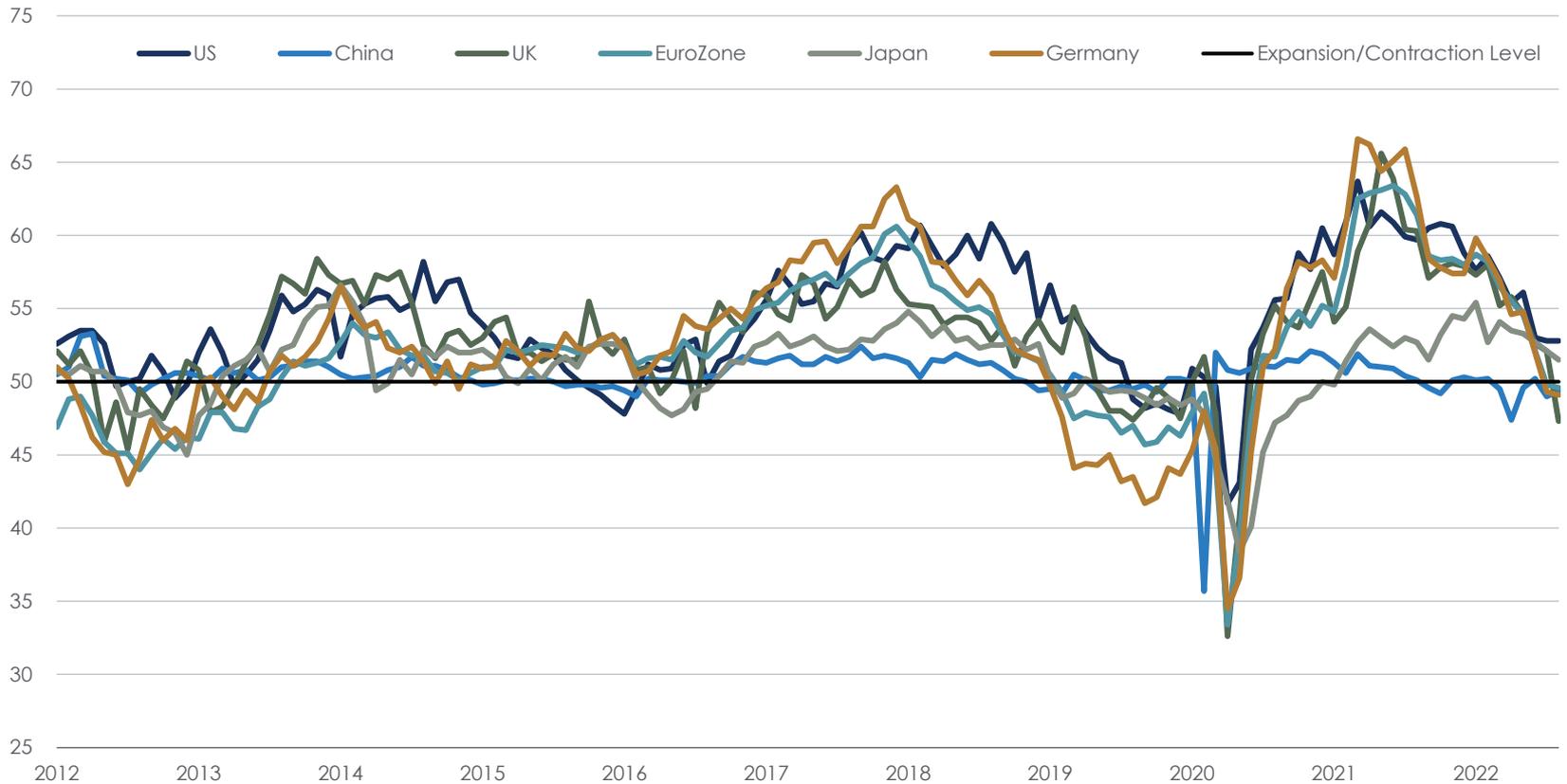


Source: Conference Board (Reported monthly)

August saw global economic activity contract for the first time since June 2020. Another decline in the new orders PMI is particularly concerning and suggests that multi-decade high inflation is weighing considerably on global demand. There was better news on the price front, however, with rates of input cost and output charge inflation both easing. August data signaled that weaknesses in the global economy were becoming more widespread.

Global Economic Outlook

Manufacturing Purchasing Managers Index (PMI) (A PMI over 50 represents growth in manufacturing)

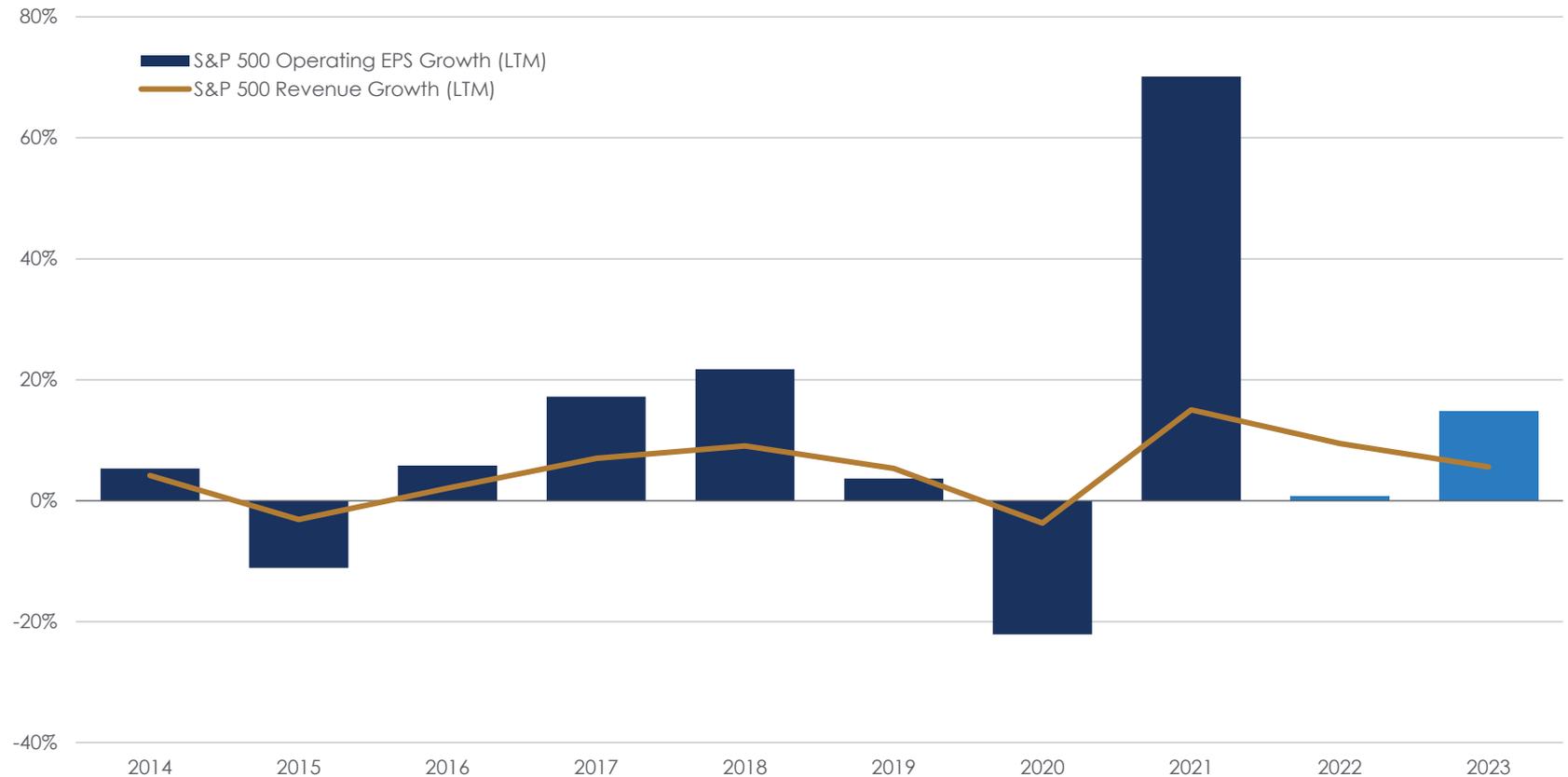


Source: ISM, Markit

According to FactSet, the bottom-up target price target for the S&P 500 is 4735, which is 18.2% above the closing price of 4006. At the sector level, the Communication Services (+27.3%) and Information Technology (+23.9%) sectors are expected to see the largest price increases. On the other hand, the Utilities (+3.5%) sector is expected to see the smallest price increase.

Corporate Profitability

S&P 500 Operating Earnings Per Share and Revenue Per Share Growth (Y/Y % Change)



Source: S&P Dow Jones Indices (Reported monthly)

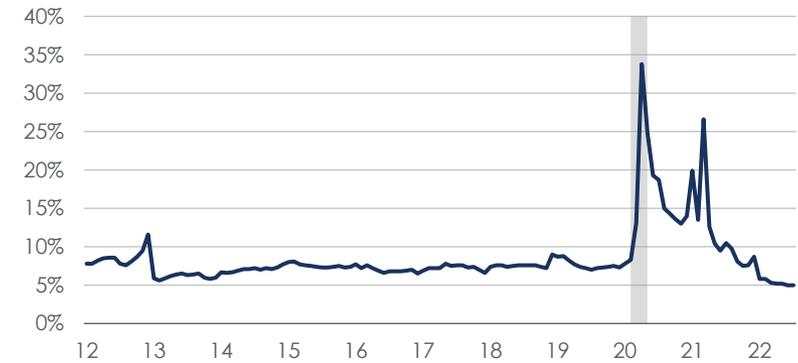
Consumer confidence increased in August after falling for three straight months. Concerns about inflation continued their retreat but remained elevated. Meanwhile, purchasing intentions increased after a July pullback, and vacation intentions reached an 8-month high. Looking ahead, August's improvement in confidence may help support spending, but inflation and additional rate hikes still pose risks to economic growth in the short term.

Consumer Outlook

Consumer Sentiment & Confidence Indexes



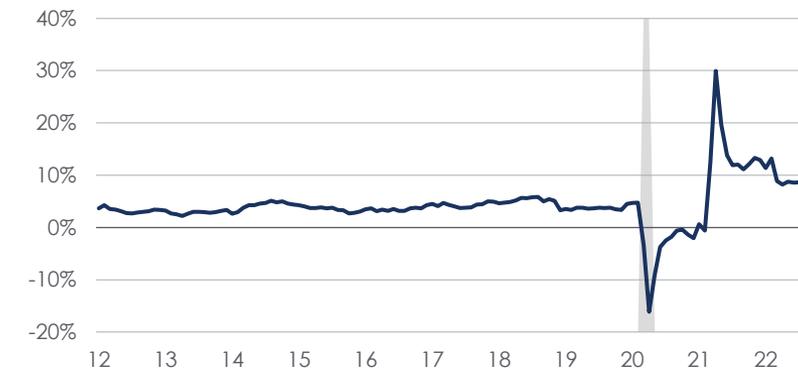
Personal Saving Rate (Seasonally Adjusted Annual Rate)



Disposable Personal Income (Y/Y % Change)



Personal Consumption Expenditures (Y/Y % Change)



Source: Thomson Reuters/University of Michigan, Conference Board, U.S. Bureau of Economic Analysis (Reported monthly)



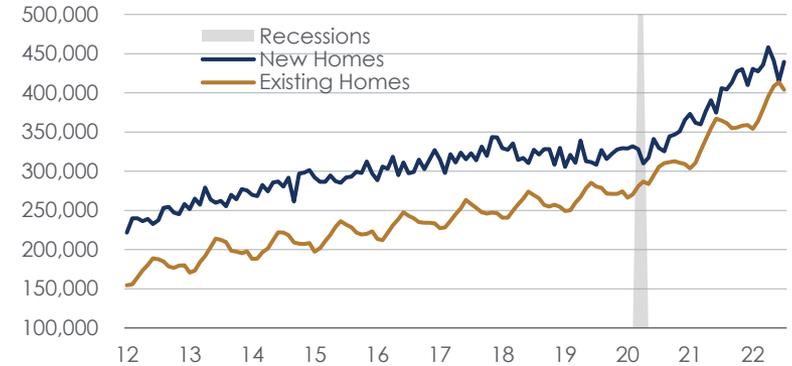
The United States had its first housing drop since the Great Financial Crisis. Goldman Sachs in a recently released paper titled "The Housing Downturn: Further to Fall" forecasts that the activity in the U.S. housing market will fall by the end of 2022. The investment bank also projects sharp declines this year in new home sales (22% drop), existing home sales (17% drop), and housing GDP (8.9% drop). Further, Goldman Sachs projects a decline next year as well in new home sales (another 8% drop), existing home sales (another 14% drop), and housing GDP (another 9.2% drop).

Housing Market Outlook

Housing Affordability (higher = more affordable)



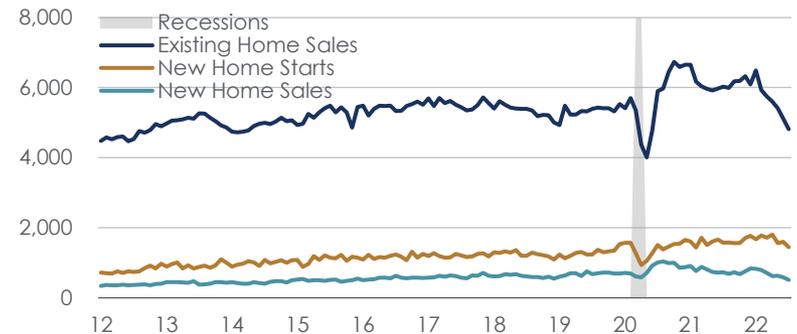
Median Selling Price of New and Existing Homes



Average Fixed Rate Mortgage in the U.S.®



Housing Starts, Existing Home Sales and New Home Sales (000's)



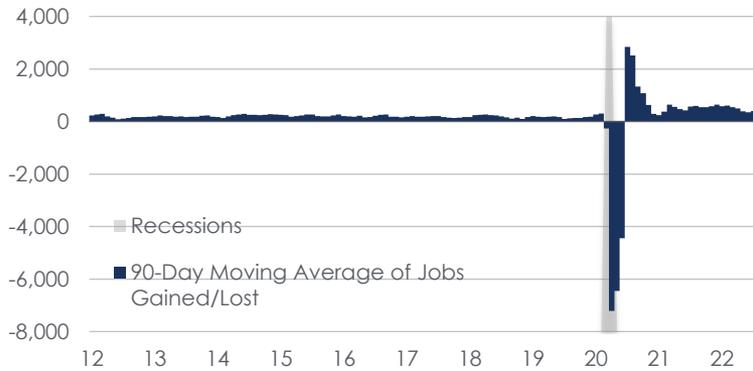
Source: National Association of Realtors, Freddie Mac, U.S. Bureau of the Census (Reported monthly)



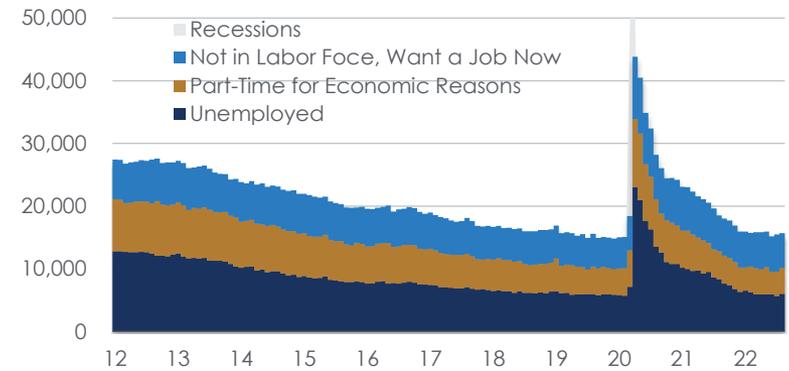
U.S. employers hired 315,000 workers in August, but moderate wage growth and a rise in the unemployment rate to 3.7% suggested the labor market was starting to loosen. The employment report also showed 107,000 fewer jobs created in June and July than initially estimated. The increase in the unemployment rate to a six-month high came as nearly 800,000 people entered the labor market, driving the size of the labor force to a record high.

Labor Market Outlook

Jobs Gained/Lost (000's) with 12-Month Moving Average



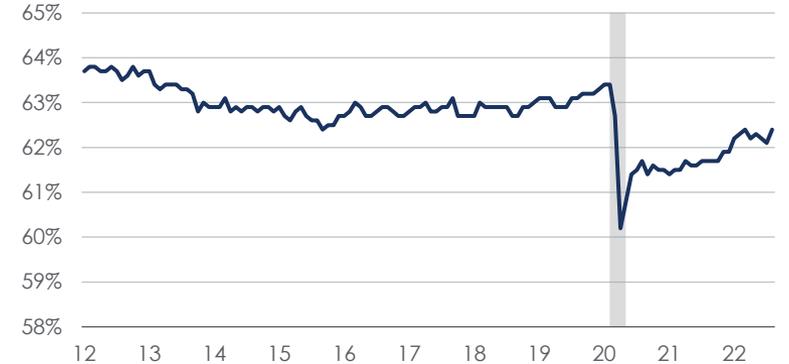
Labor Market Slack (000's)



Wage Growth (Y/Y % Change)

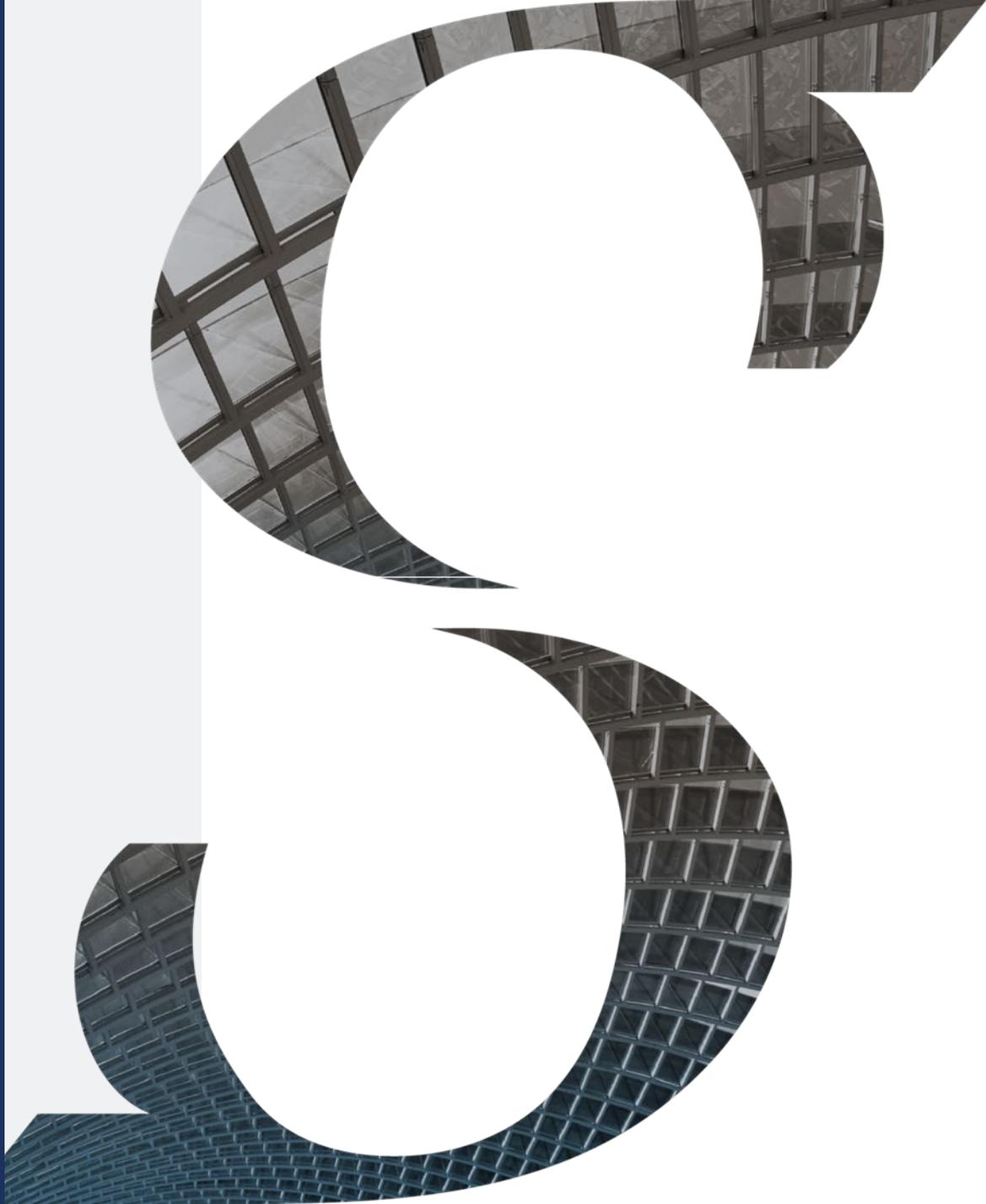


Labor Force Participation Rate



Source: U.S. Bureau of Labor Statistics, (Reported monthly, Wage Growth reported quarterly)



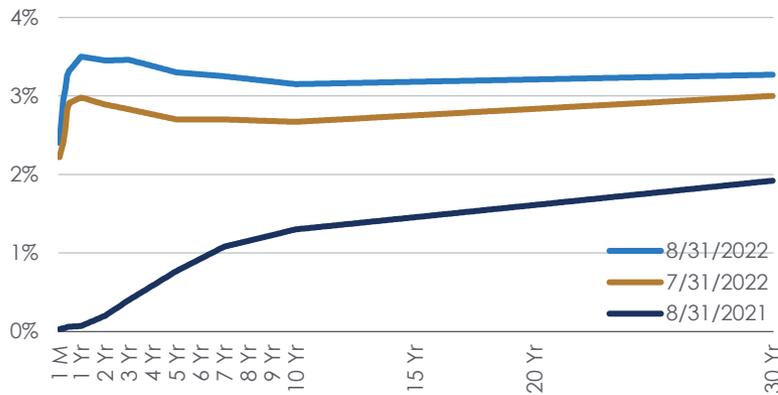


Bond Market Perspective

Government bond yields rose sharply, meaning prices fell, as inflation remained elevated and central banks reaffirmed a commitment to reining in price increases. The Federal Reserve held its annual conference at Jackson Hole against a backdrop of multi-decade high consumer price inflation. While concerns of an economic downturn are rising, Fed Chair Powell stuck to a hawkish message saying the Fed would not “pivot,” or shift course from raising rates, though the U.S. may see slower growth for a “sustained period.”

U.S. Treasury Market

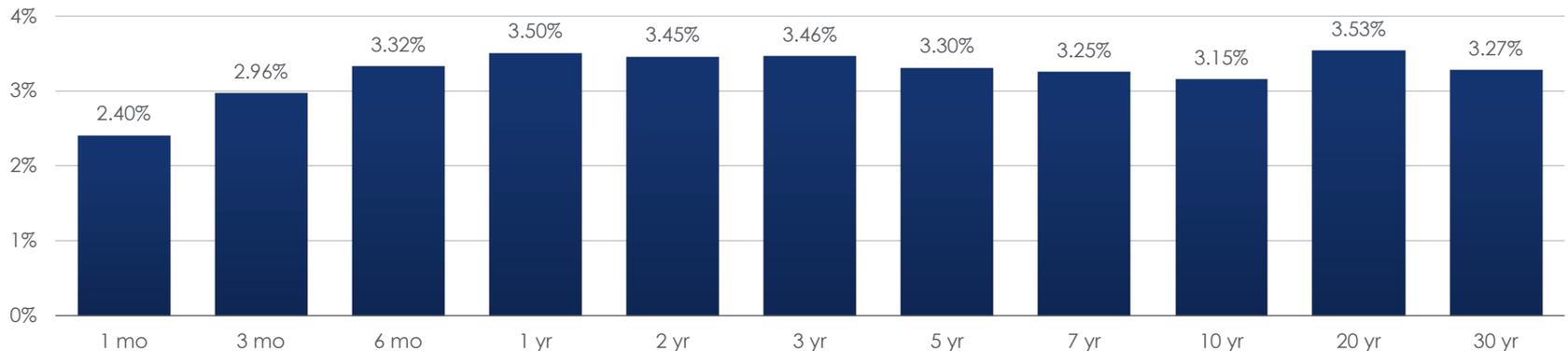
U.S Treasury Yield Curve



Historical U.S. 10-Year Treasury Rate

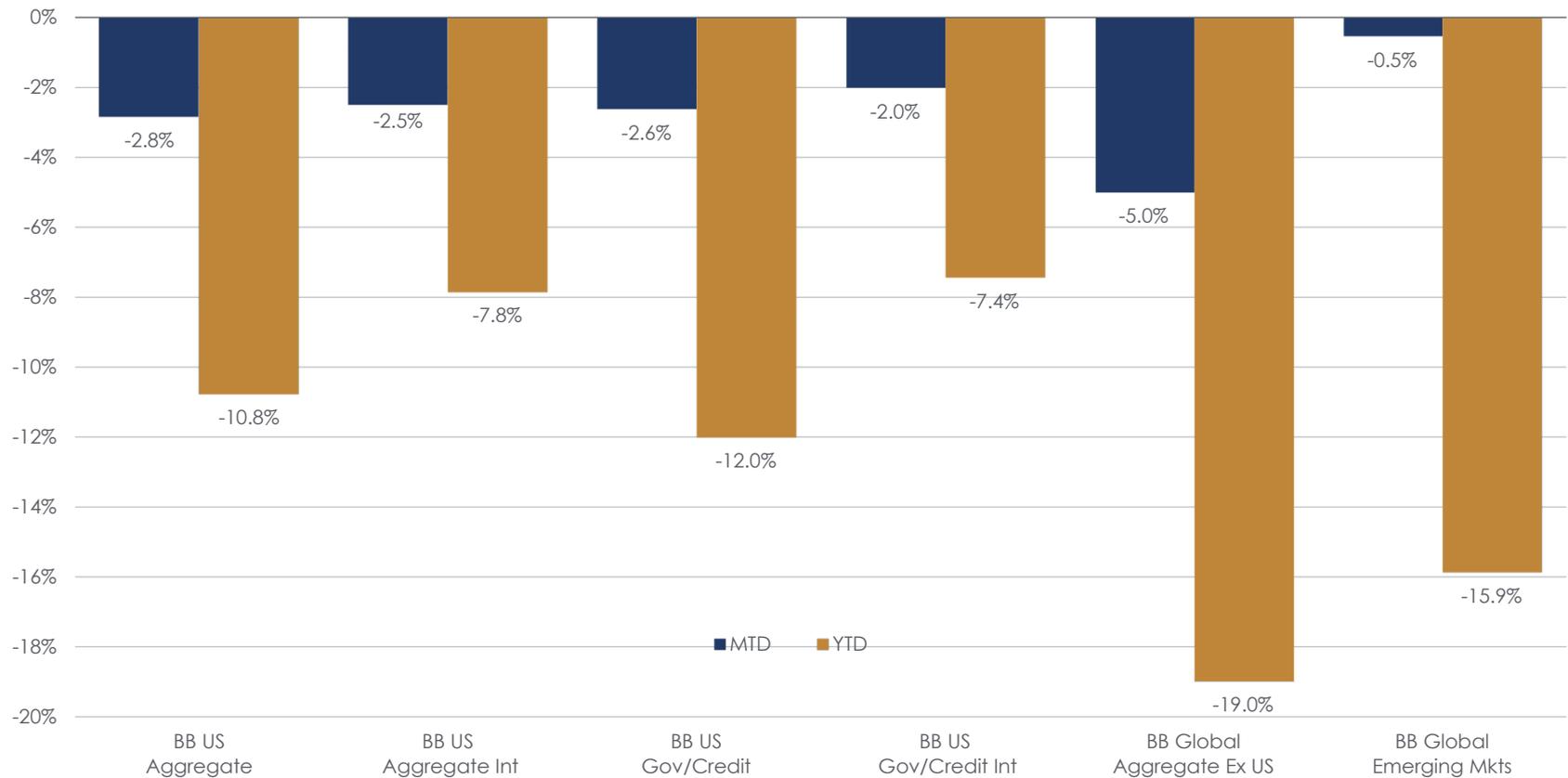


Current U.S. Treasury Yields by Maturity



Source: U.S. Department of Treasury

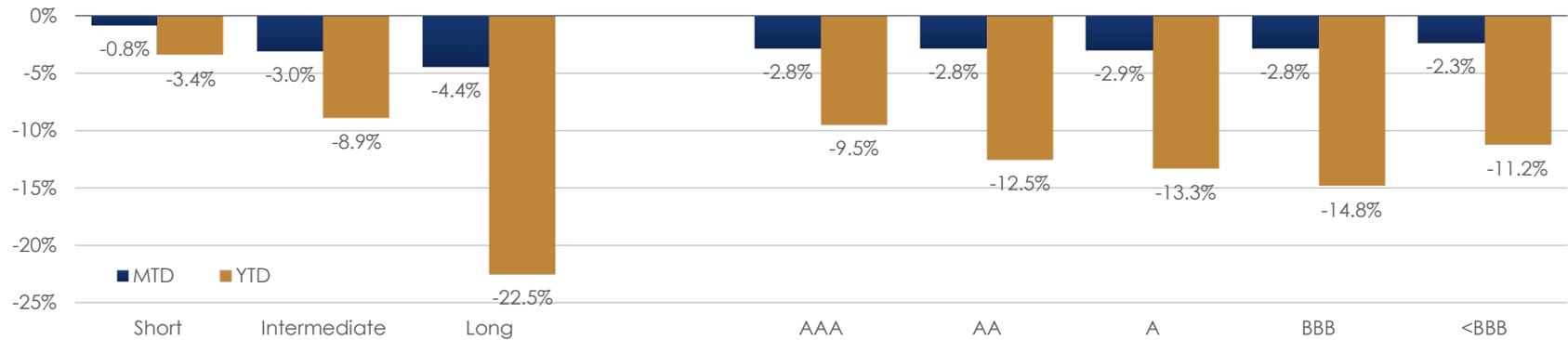
Global Fixed Income Returns by Bellwether Index



Source: Bloomberg Barclays (BB)

Domestic Fixed Income Returns by Maturity and Credit Quality

Domestic Bond Market - Taxable



Domestic Bond Market - Municipal

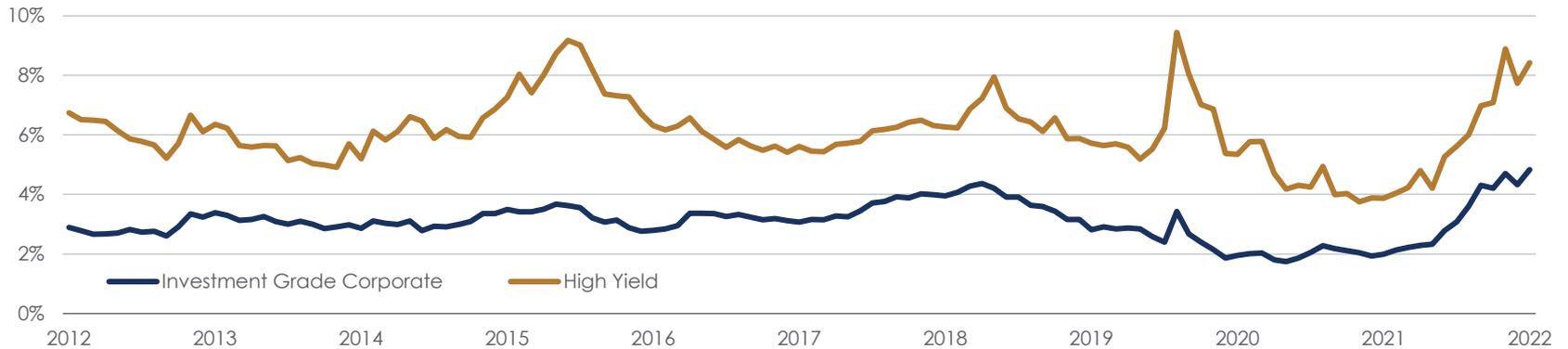


Short is defined as 1-3 years for taxable and 3 years for municipal, Intermediate is 5-7 years for taxable and 6-8 years for municipal, Long is 10+ years for taxable and 8-12 years for municipal. Source: Bloomberg Barclays Aggregate Bond Index (taxable bond market) and Bloomberg Barclays Municipal Index (municipal bond market).

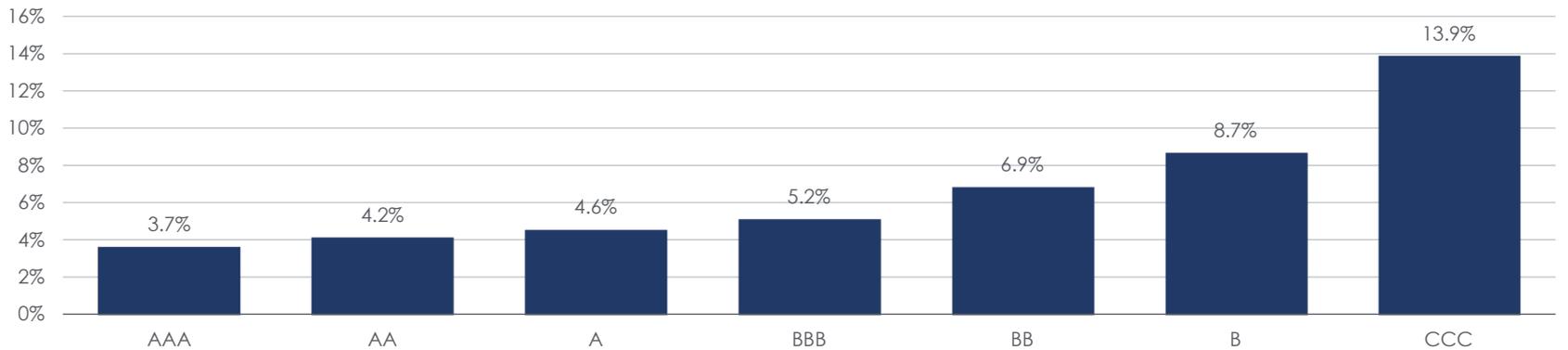


Domestic Corporate Bond Yields

Historical Corporate Bond Market Yield to Worst



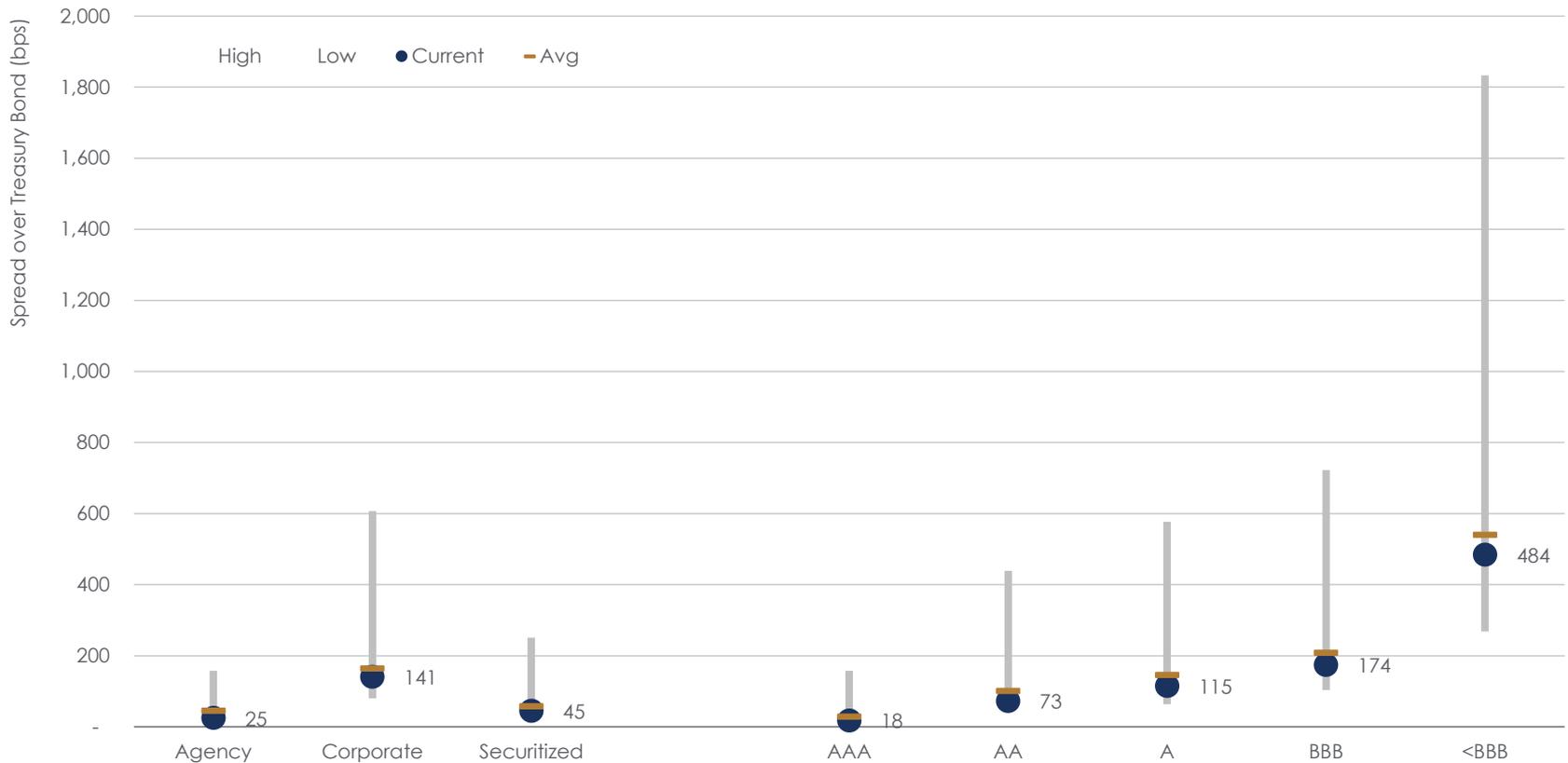
Current Corporate Bond Market Yields by Credit Quality



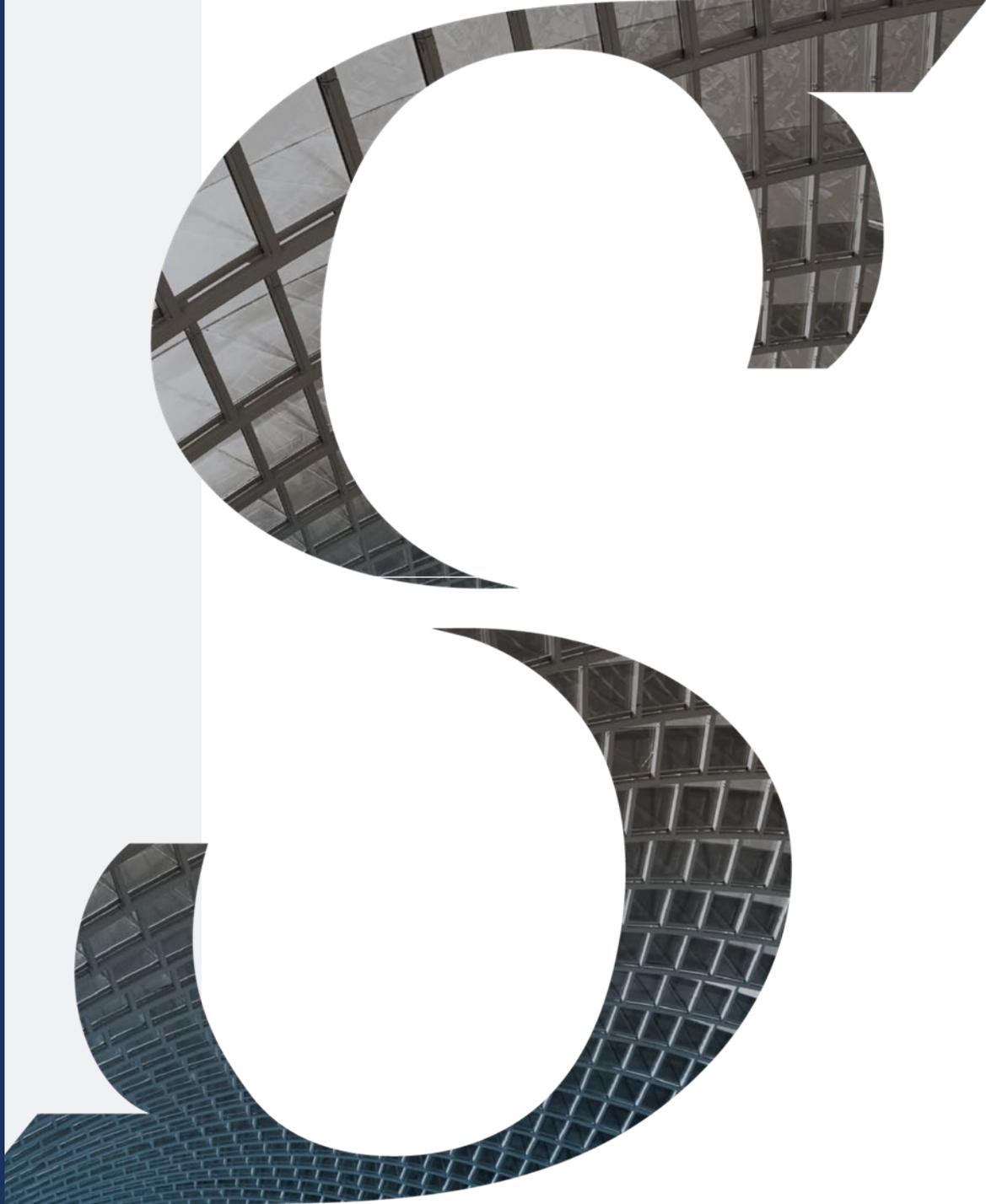
Investment Grade Corporate bonds are represented by the Bloomberg Barclays U.S. Corporate Investment Grade index. High Yield bonds are represented by the Bloomberg Barclays U.S. Corporate High Yield index. Source: Bloomberg Barclays

Domestic Taxable Bond Spreads

Current Bond Spreads Compared to 15-Year Range and 15-Year Average



The length of each bar represents the Range of the highest and lowest spread to the Treasury benchmark over the past 15 years. Average represents the average spread over the past 15 years. Current represents the most recent month. Source: Bloomberg Barclays

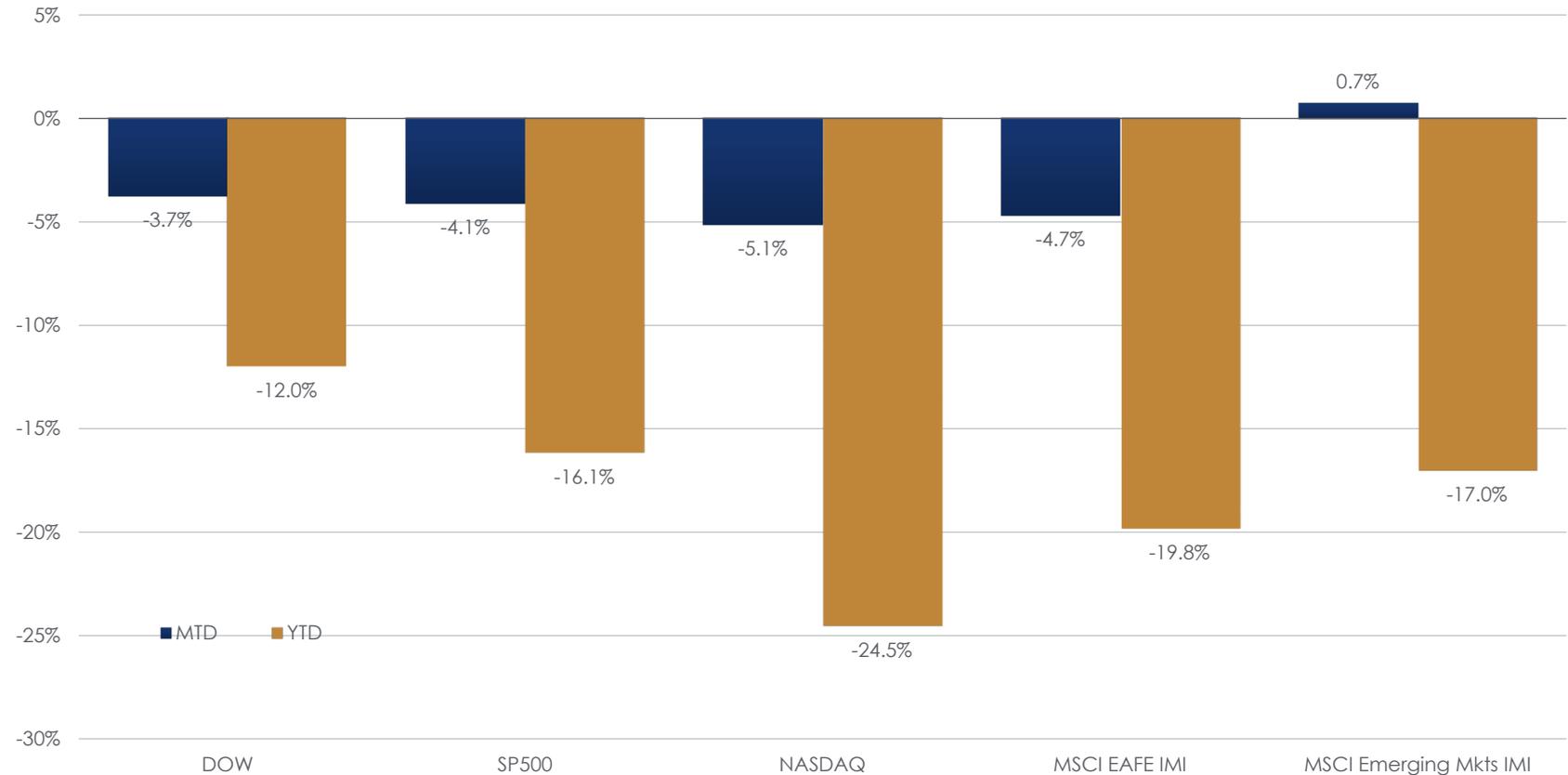


Equity Market Perspective

Developed market equities resumed their declines in August as it became clear that further substantial interest rate rises may be needed to tame inflation. Emerging market shares posted a modest gain. By sector, information technology, health care and real estate experienced some of the sharpest declines. Energy stocks achieved a robust performance amid ongoing strong demand and a curtailment of supplies following Russia's invasion of Ukraine.

Global Equity Returns by Bellwether Index

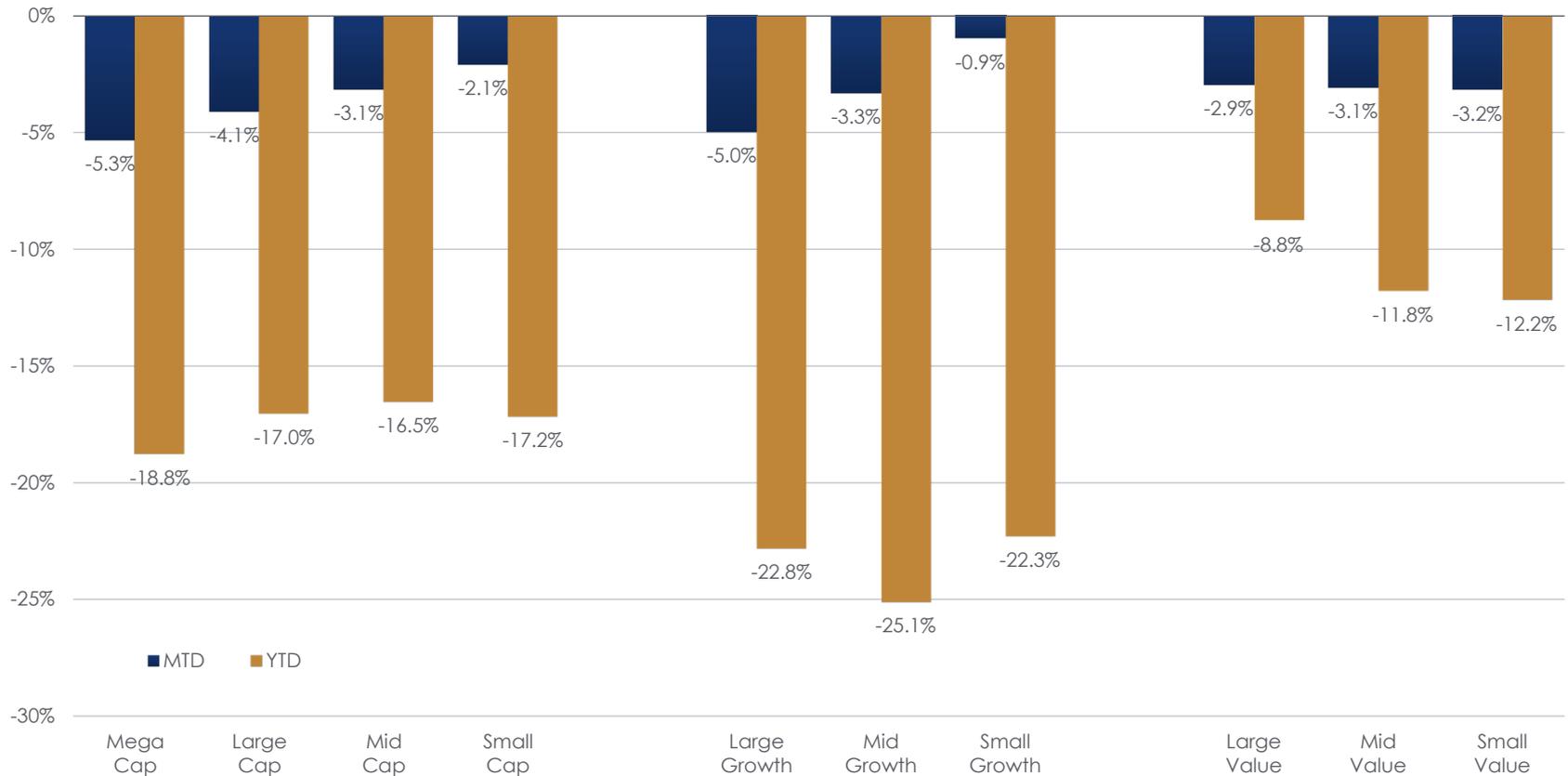
Global Equity Markets



Source: S&P Dow Jones, NASDAQ, MSCI

Domestic Equity Returns by Market Cap & Style

Domestic Equity Markets

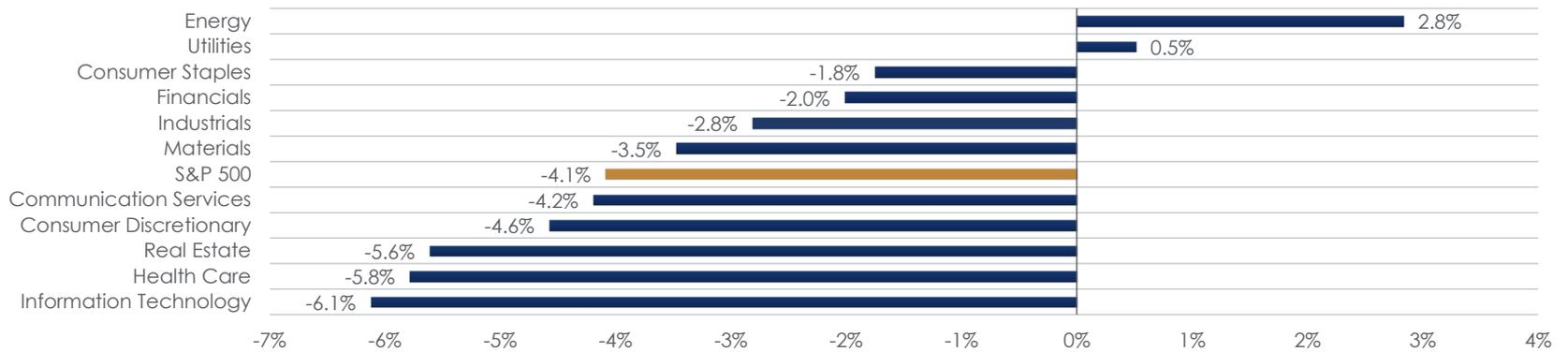


Asset classes are represented by the following benchmarks: Russell Top 50 (Mega), Russell Top 200 (Large), Russell Midcap (Mid), Russell 2000 (Small). Source: Russell

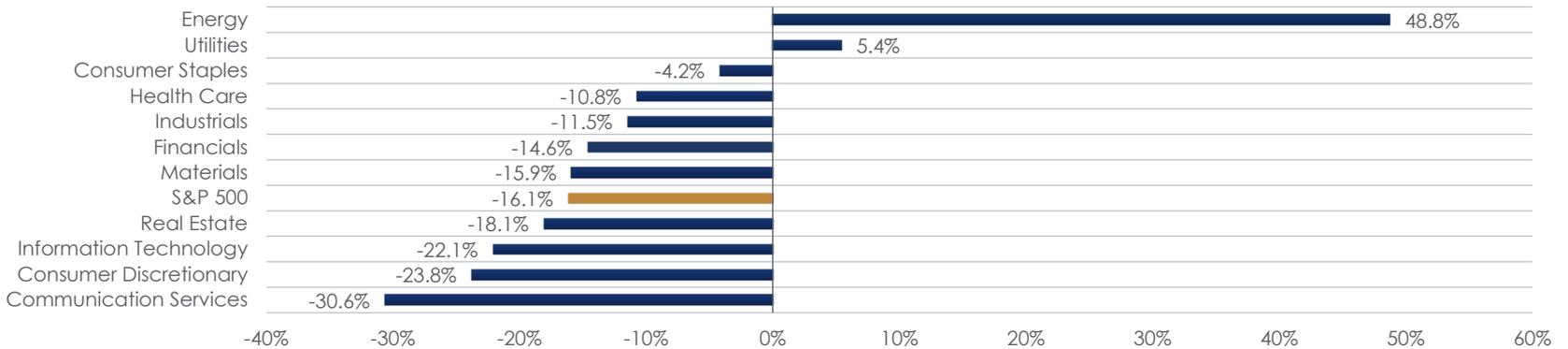


Domestic Equity Returns by Sector

MTD S&P 500 Returns by Sector



YTD S&P 500 Returns by Sector

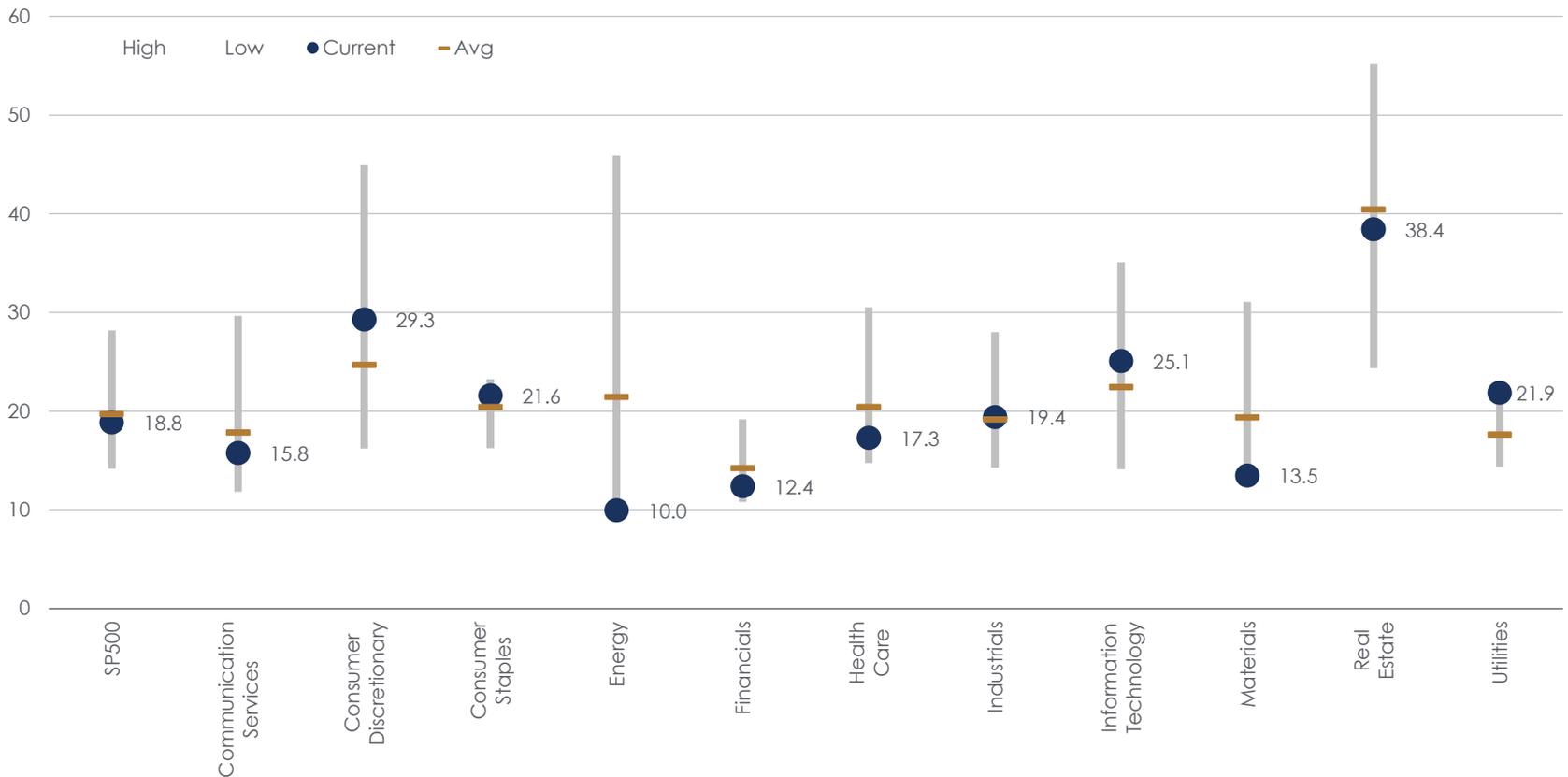


Source: S&P Dow Jones



Domestic Equity Valuations by Sector

Trailing 12 Month P/E Ratio Compared to 10-Year Range and 10-Year Average



P/E ratios are based on trailing 12 months earnings (LTM) excluding negative earnings. The length of each bar represents the Range of the highest and lowest P/E ratio over the past 10 years. Average represents the average P/E ratio over the past 10 years. Current represents the most recent month. Source: Bloomberg

Economic Indicator Descriptions

Real Gross Domestic Product (GDP): GDP is a basic measure of U.S. economic output adjusted for inflation. Alternatively, it can be thought of as the final value of all goods and services produced within the U.S. Positive GDP growth signals an expanding economy.

Consumer Price Index (CPI): Measuring the change in the CPI provides an estimate for inflation. The CPI tracks the price of a basket of consumer goods and services. High inflation or deflation (negative inflation) can be signs of economic worry. CPI is typically reported in two ways: headline and core CPI. Headline CPI includes all categories that comprise the CPI basket of goods and services.

Personal Consumption Expenditure Chain-type Price Index (PCEPI): Measuring the change in the PCEPI provides an estimate for inflation. In comparison to CPI, which uses one set of expenditure weights for several years, this index uses expenditure data from the current period and the preceding period. This price index method assumes that the consumer has substituted from goods whose prices are rising to goods whose prices are stable or falling. Core PCEPI, which is closely monitored by the Fed, strips out the more volatile Food and Energy categories.

Conference Board Index of Leading Economic Indicators (LEI): The LEI is designed to signal peaks and troughs in the business cycle. The ten components include: average weekly manufacturing hours; average weekly initial claims for unemployment insurance; manufacturers' new orders for consumer goods and materials; ISM® Index of New Orders; manufacturers' new orders for nondefense capital goods excluding aircraft orders; building permits for new private housing units; stock prices of 500 common stocks; Leading Credit Index™; interest rate spread on 10-year Treasury bonds less federal funds and average consumer expectations for business conditions.

The Institute for Supply Management (ISM) PMI Index: The PMI is a composite index of five "sub-indicators", which are extracted through surveys to purchasing managers from around the country. The five sub-indexes are: Production, New orders, Supplier deliveries, Inventories and Employment level. An Index value over 50 indicates expansion; below 50 indicates contraction.

The Institute for Supply Management (ISM) Non-manufacturing Index (NMI): The NMI is a composite index of four "sub-indicators", which are extracted through surveys to purchasing managers. The four sub-indexes: Business activity, New orders, Employment, Supplier deliveries. An Index value over 50 indicates expansion; below 50 indicates contraction.

Consumer Confidence Index (CCI): The Consumer Confidence Index is a well-known proxy for the attitudes of U.S. consumer towards the business climate, personal finances and spending. This index attempts to measure the confidence that consumers have in the overall economy. This is important because consumer spending accounts for a large portion of U.S. GDP.

Consumer Sentiment Index (MCSI): The MCSI uses telephone surveys to gather information on consumer expectations regarding the overall economy. The MCSI is becoming more useful for investors because it gives a monthly snapshot of whether consumers feel like spending money by accessing their views on the business climate, personal finance, and spending in order to judge their level of optimism/pessimism. This is important because consumer spending accounts for a large portion of U.S. GDP.

Disposable Personal Income per Capita (DPI): DPI is the amount of money that households have available for spending and saving after income taxes have been accounted for. DPI is monitored to gauge the overall state of the economy.

Personal Consumption Expenditures (PCE): PCE consists of the actual and imputed expenditures of households including durables, non-durables and services.

Retail Sales: The retail sales report captures in-store sales as well as catalog and other out-of-store sales. The report also breaks down sales figures into groups such as food and beverages, clothing, and autos. The results are often presented two ways: with and without auto sales being counted, because their high sticker price can add extra volatility to the data.

Housing Affordability Index (HAI): Published monthly by the National Association of Realtors, the HAI index has a value of 100 when the median-income family has sufficient income to purchase a median-priced existing home. A higher index number indicates that more households can afford to purchase a home.

Unemployment Rate: Calculated monthly by the Bureau of Labor Statistics, the unemployment rate is a gauge of the health of the U.S. labor market. High unemployment can stifle the growth of the economy.

Wage Growth: Calculated quarterly by the Bureau of Labor Statistics, the employment cost index measures the growth of employee compensation (wages and benefits). The index is based on a survey of employer payrolls in the final month of each quarter. The index tracks movement in the cost of labor, including wages, fringe benefits and bonuses for employees at all levels of a company. We are using the wage component of this index.

Benchmark Descriptions

U.S. Aggregate Bond: The Barclays U.S. Aggregate Bond Index measures the performance of USD-denominated, SEC-registered, investment-grade, fixed-rate or step up, taxable bonds. The index includes bonds from the Treasury, Government-Related, Corporate and MBS, ABS, and CMBS sectors. Securities included in the index must have at least one year until final maturity.

U.S. Treasury: The Barclays Capital U.S. Treasury Index measures the performance of public obligations of the U.S. Treasury with a remaining maturity of one year or more.

U.S. Agency: The Barclays Capital U.S. Agency Bond Index measures the performance of the agency sector of the U.S. government bond market and is comprised of investment-grade USD-denominated debentures issued by government and government-related agencies, including FNMA. The index includes both callable and non-callable securities that are publicly issued by U.S. government agencies, quasi-federal corporations, and corporate and foreign debt guaranteed by the U.S. government.

U.S. Corporate: The Barclays Capital U.S. Corporate Bond Index measures the performance of publicly issued USD-denominated corporate and Yankee debentures and secured notes that meet specified maturity, liquidity, and quality requirements.

U.S. MBS: The Barclays Capital U.S. Mortgage Backed Securities Index measures the performance of mortgage-backed pass-through securities of Ginnie Mae (GNMA), Fannie Mae (FNMA), and Freddie Mac (FHLMC).

U.S. Municipal Bond: The Barclays Capital Municipal Bond Index measures the performance of the USD-denominated, investment grade, fixed-rate tax exempt bond market. The index has four main sectors: state and local general obligation bonds, revenue bonds, insured bonds and pre-refunded bonds. Securities included in the index must have at least one year until final maturity.

General Obligation Bond Index: The Barclays General Obligation Bond Index measures the average market-weighted performance of general obligations securities that have been issued in the last five years with maturities greater than one year.

Revenue Bond Index: The Barclays Revenue Bond Index measures the average market-weighted performance of revenue backed securities that have been issued in the last five years with maturities greater than one year.

Investment Style: Performance of different types of stocks will vary over time. A common way to characterize a stock is by market capitalization (e.g., large cap or small cap) or style (e.g., value or growth).

Large Cap vs. Small Cap: Large companies tend to be more established companies and therefore exhibit lower volatility. Over an extended period of time, expected returns of small cap companies are often higher due to the risks associated with smaller, less established companies.

Value vs. Growth: Value companies typically trade at discount valuations and may pay a dividend. Growth companies are those that are experiencing greater earnings growth prospects.

Mega Cap: The Russell Top 50 Index measures the performance of the top 50 largest companies in the Russell 1000 Index, which represents approximately 40% of the total market capitalization of the Russell 1000 Index.

Large Cap: The Russell Top 200 Index measures the performance of the 200 largest companies in the Russell 1000 Index, which represents approximately 68% of the total market capitalization of the Russell 1000 Index.

Mid Cap: The Russell Midcap Index measures the performance of the 800 smallest companies in the Russell 1000 Index, which represent approximately 36% of the total market capitalization of the Russell 1000 Index.

Small Cap: The Russell 2000 Index measures the performance of the 2,000 smallest companies in the Russell 3000 Index, which represents approximately 8% of the total market capitalization of the Russell 3000 Index.

Large Cap Growth: The Russell 1000 Growth Index measures the performance of those Russell 1000 index companies with higher price-to-book ratios and higher forecasted growth values.

Large Cap Value: The Russell 1000 Value Index measures the performance of those Russell 1000 companies with lower price-to-book ratios and lower forecasted growth values.

Mid Cap Growth: The Russell Midcap Growth Index measures the performance of those Russell Midcap companies with higher price-to-book ratios and higher forecasted growth values.

Mid Cap Value: The Russell Midcap Value Index measures the performance of those Russell Midcap companies with lower price-to-book ratios and lower forecasted growth values.

Small Cap Growth: The Russell 2000 Growth Index measures the performance of those Russell 2000 Index companies with higher price-to-value ratios and higher forecasted growth values.

Small Cap Value: The Russell 2000 Value Index measures the performance of those Russell 2000 Index companies with lower price-to-book ratios and lower forecasted growth values.

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