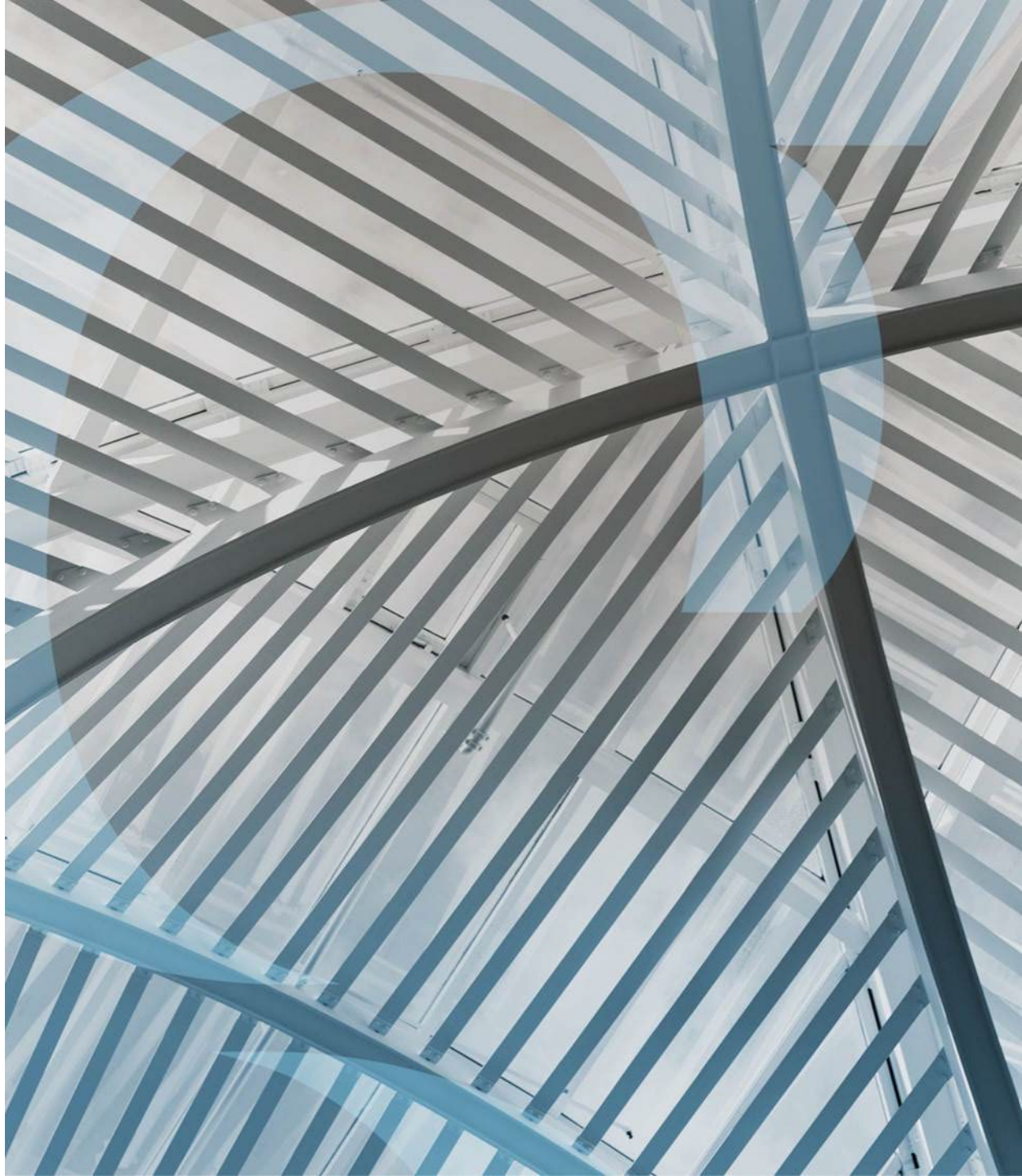


Chart Book

AS OF DECEMBER 31, 2022

Please Contact:

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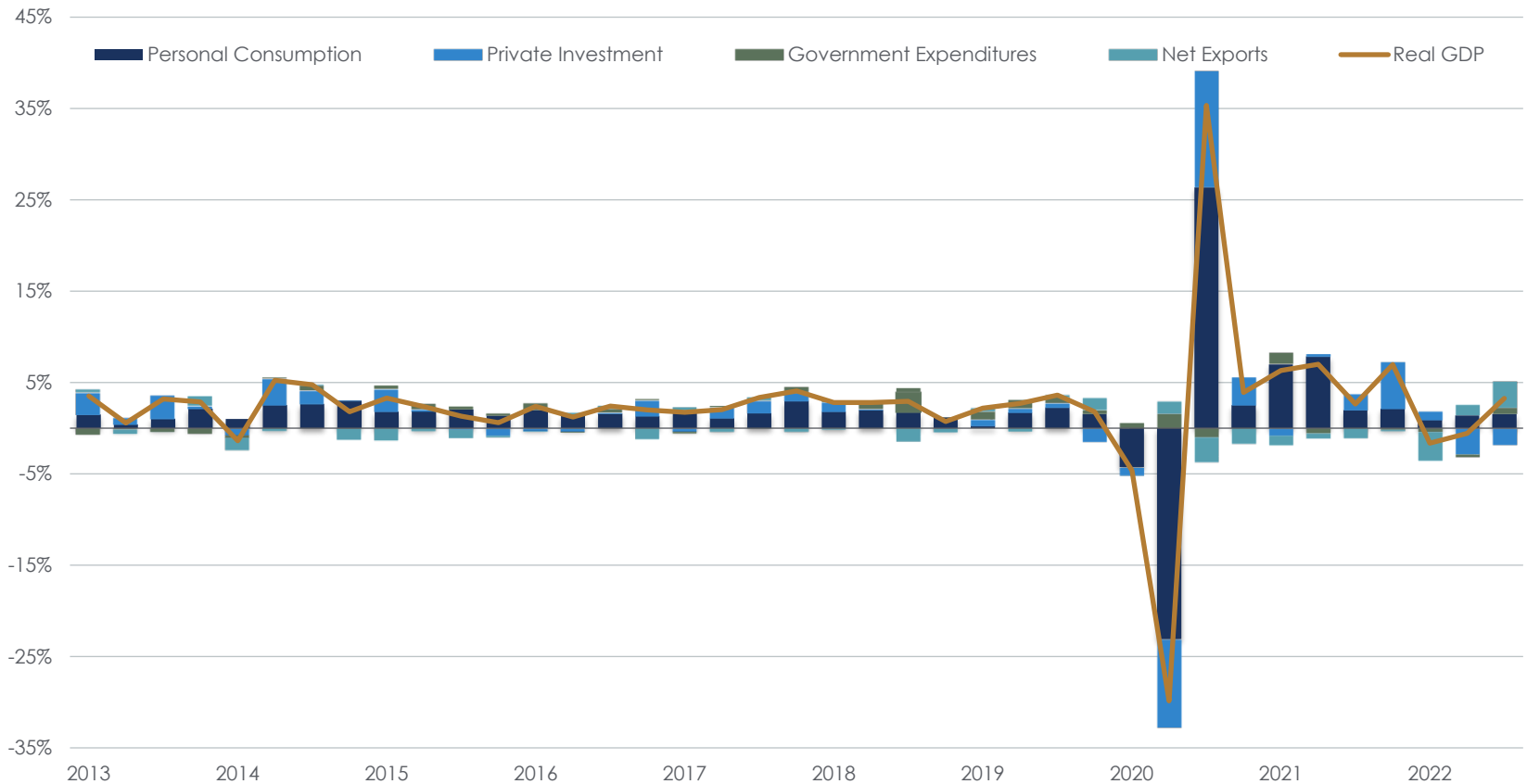


Economic Perspective

U.S. gross domestic product increased at an annual pace of 3.2% due to stronger consumer spending. The number shows the economy's resilience heading into the final months of the year, but most economists expect the fourth quarter to show weaker or negative growth as the Federal Reserve's campaign of higher interest rates takes hold. Already, some sectors such as housing have slowed down significantly although inflation has also shown signs of receding from its summer highs. Estimates for 4th quarter U.S. GDP growth range from 0% to 4%.

Economic Growth

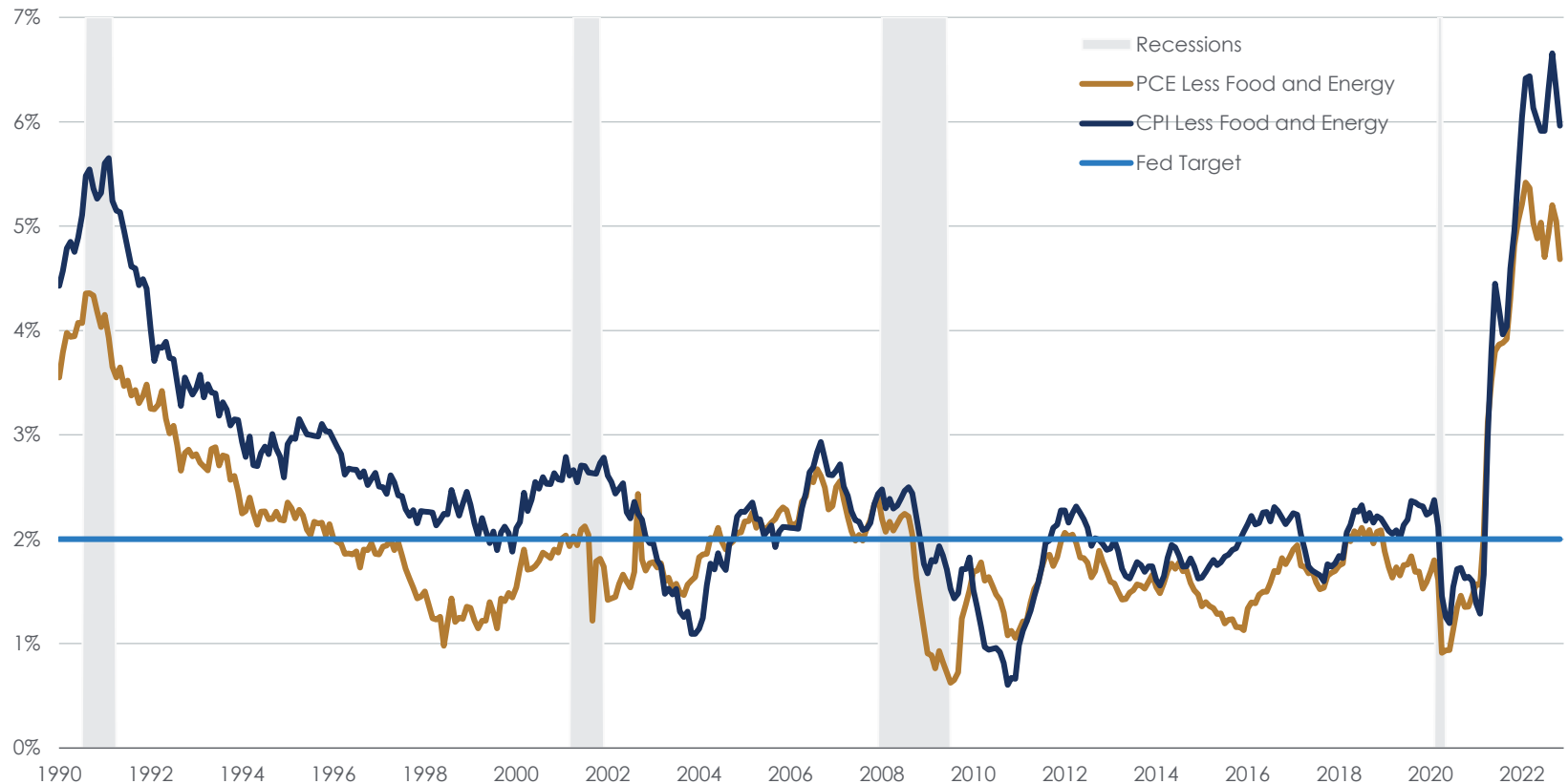
Contributions to Percent Change in Real GDP (Annualized Q/Q % Change)



The latest inflation reading shows prices increased less than expected in November. The personal consumption expenditures price index, a measure of inflation which the Federal Reserve pays close attention to, increased 5.5% on an annual basis. The core PCE that omits food and energy costs increased at 4.7% on an annual basis. Fed Chairman Jerome Powell has said the central bank will continue raising interest rates until it is convinced inflation has returned closer to its 2.0% annual target.

Inflation Outlook

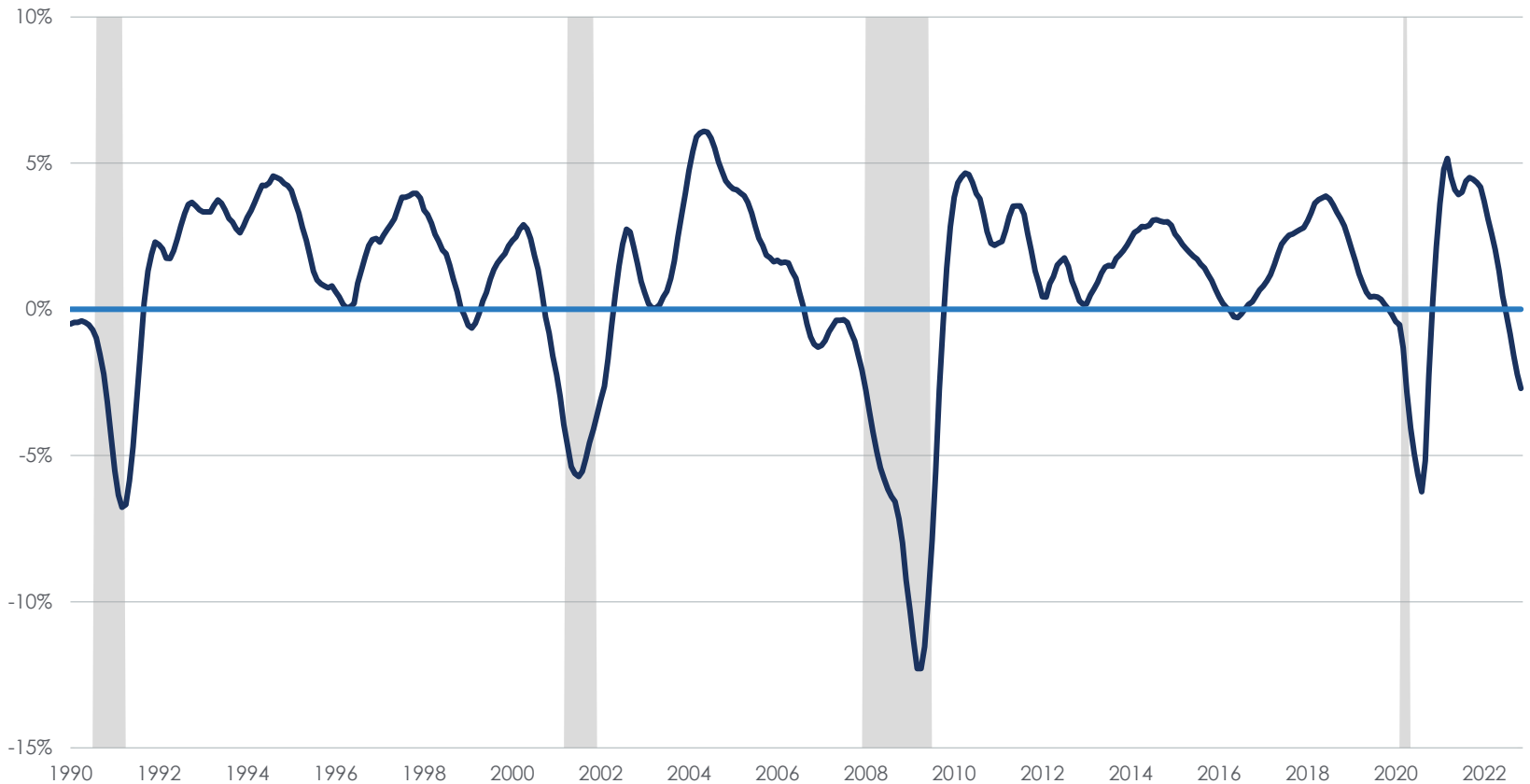
Consumer Price Index (Core) and Personal Consumption Expenditures Price Index (Core) (Y/Y % Change)



According to the Conference Board, the U.S. Leading Economic Index (LEI) fell sharply in November, continuing its slide since peaking in February. Only stock prices contributed positively to the U.S. LEI in November. The labor market, manufacturing, and housing indicators all weakened, reflecting serious headwinds to economic growth. Interest rate spread and manufacturing new orders components were essentially unchanged in November, confirming a lack of economic growth momentum.

U.S. Economic Outlook

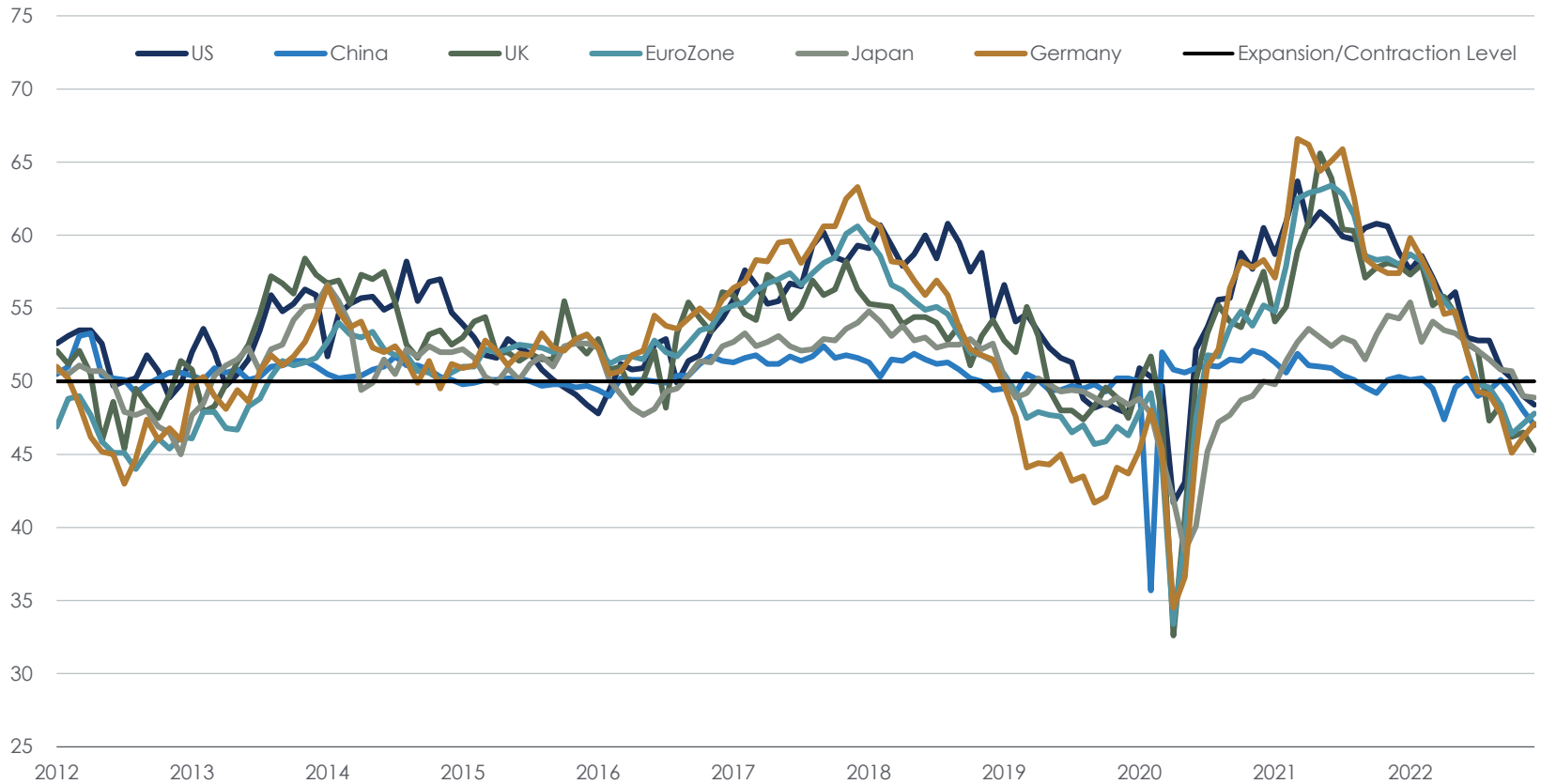
Leading Economic Index (Six-Month Moving Average of the Six-Month Rate of Change)



The December PMI surveys indicated a further contraction of global economic activity. Output decreased for the fifth successive month, as new order intakes fell at the fastest pace in over two-and-a-half years. Job creation subsequently ground to a near-standstill. The four-largest industrial economies consisting of mainland China, the U.S., the Euro Area and Japan all saw output and new work contract.

Global Economic Outlook

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

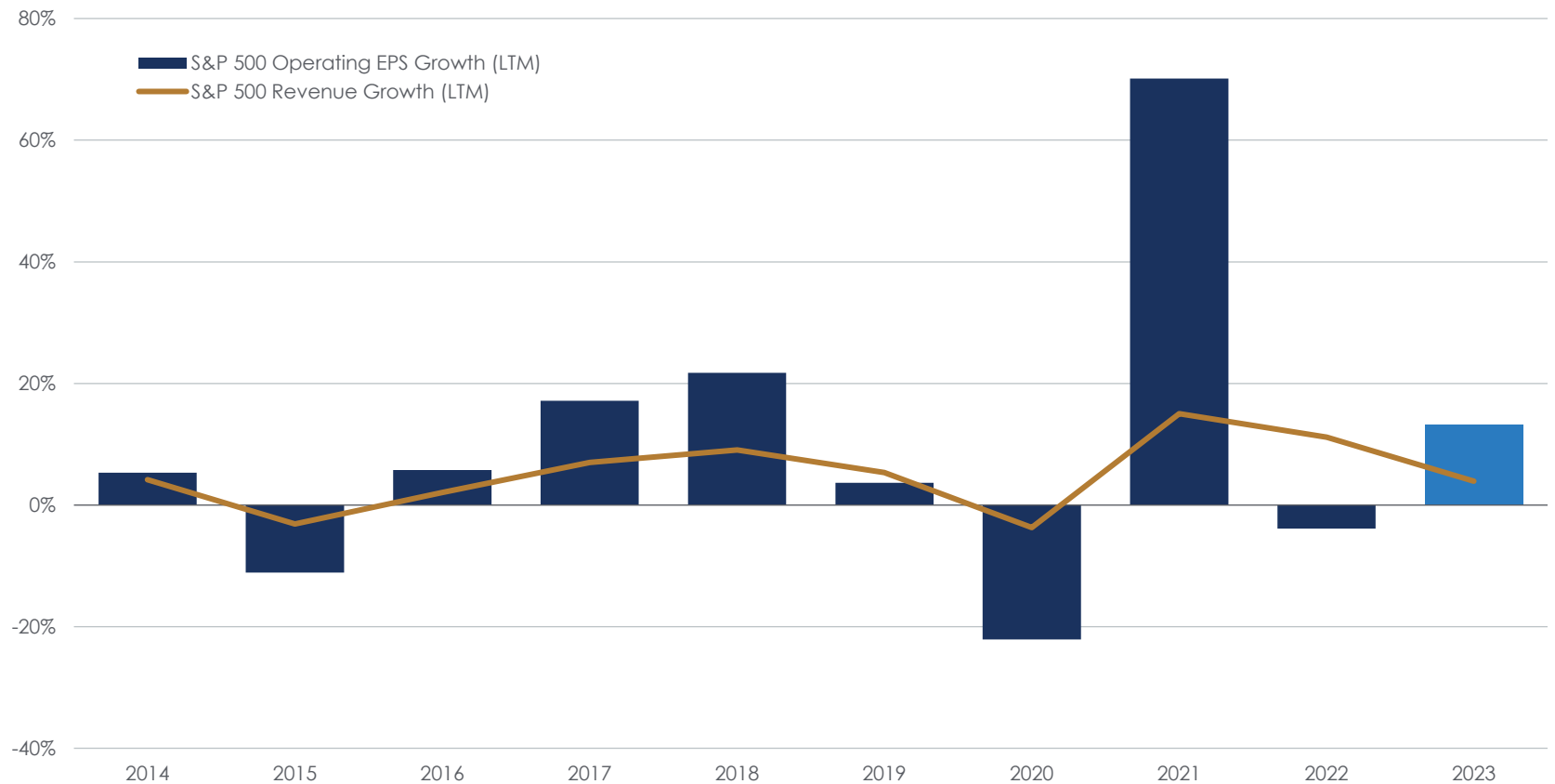


Source: ISM, Markit

According to FactSet, the bottom-up target price target for the S&P 500 over the next 12 months is 4501, which is 18.2% above the closing price of 3808. At the sector level, the Consumer Discretionary (+33.5%), Information Technology (+26.6%), and Communication Services (+25.3%) sectors are expected to see the largest price increases. On the other hand, the Consumer Staples (+7.8%) and Industrials (+8.5%) sectors are expected to see the smallest price increases.

Corporate Profitability

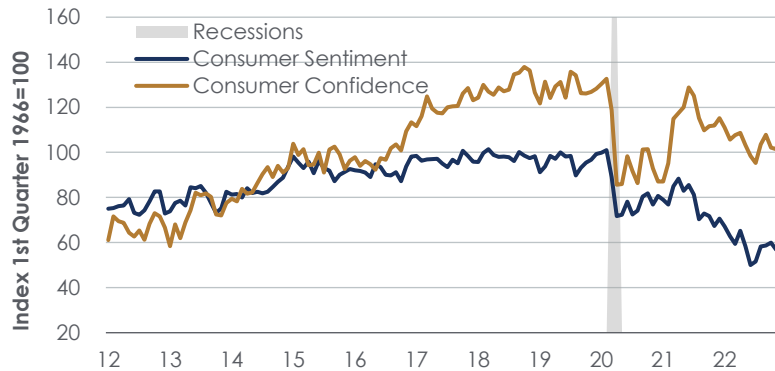
S&P 500 Operating Earnings Per Share and Revenue Per Share Growth (Y/Y % Change)



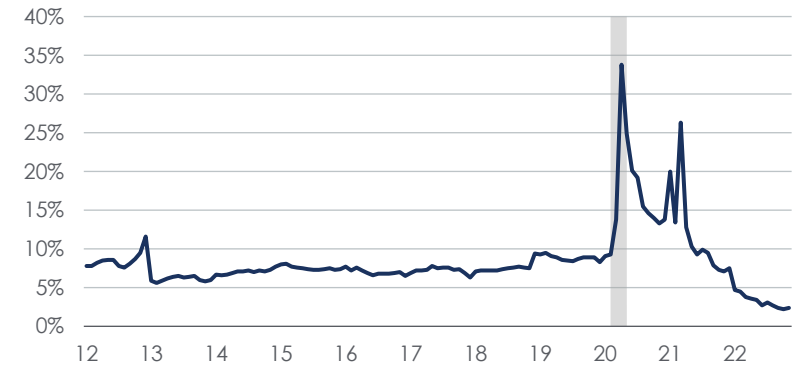
According to the Conference Board, consumer confidence bounced back in December, reversing consecutive declines in October and November. The Present Situation and Expectations Indexes improved due to consumers' more favorable view regarding the economy and jobs. Inflation expectations retreated in December to their lowest level since September 2021, with recent declines in gas prices a major impetus. A shift in consumers' preference from big-ticket items to services is expected to continue in 2023, as will headwinds from inflation and interest rate hikes.

Consumer Outlook

Consumer Sentiment & Confidence Indexes



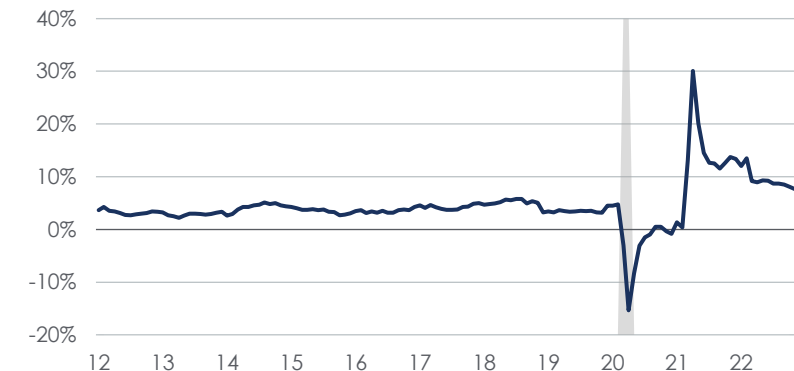
Personal Saving Rate (Seasonally Adjusted Annual Rate)



Disposable Personal Income (Y/Y % Change)



Personal Consumption Expenditures (Y/Y % Change)



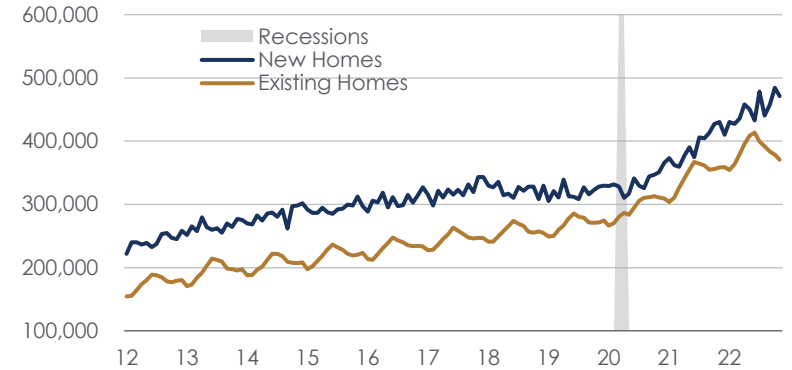
The interest rate-sensitive housing market has borne the brunt of the Federal Reserve's aggressive campaign to tighten policy and slow the economy. Housing prices, sales and affordability all declined in November as higher mortgage rates continued to sap demand from the housing market.

Housing Market Outlook

Housing Affordability (higher = more affordable)



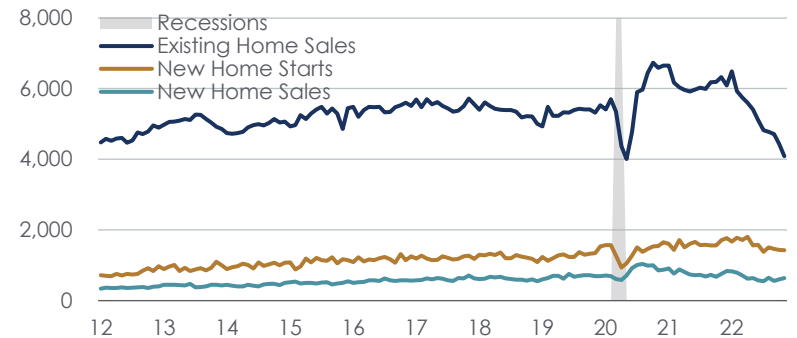
Median Selling Price of New and Existing Homes



Average Fixed Rate Mortgage in the U.S.®



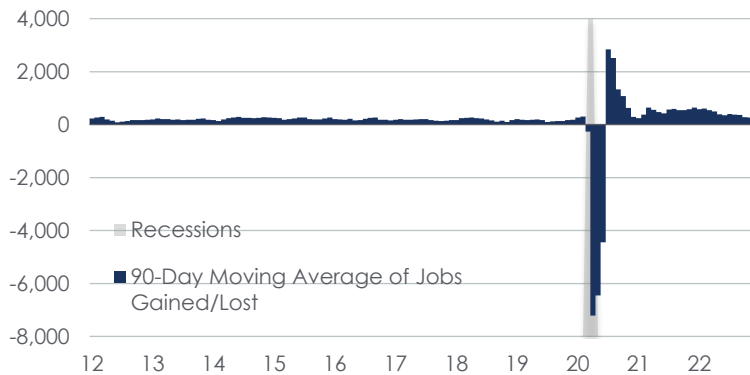
Housing Starts, Existing Home Sales and New Home Sales (000's)



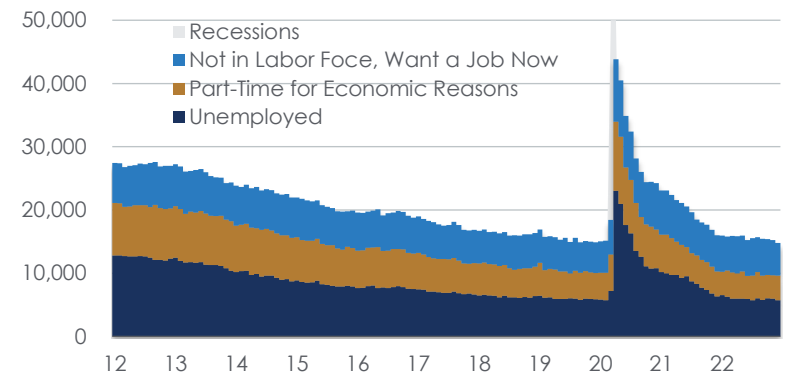
U.S. employers hired 223,000 workers in November, pushing the unemployment rate back to 3.5%. Average hourly earnings increased 4.6% on year-over-year basis. Economists say it is premature to believe that wage inflation would cool rapidly by postulating the bulk of job cuts are in high-paying technology and finance sectors, while the industries hiring were typically low paying. Regardless, labor market resilience is underpinning the economy by sustaining consumer spending.

Labor Market Outlook

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



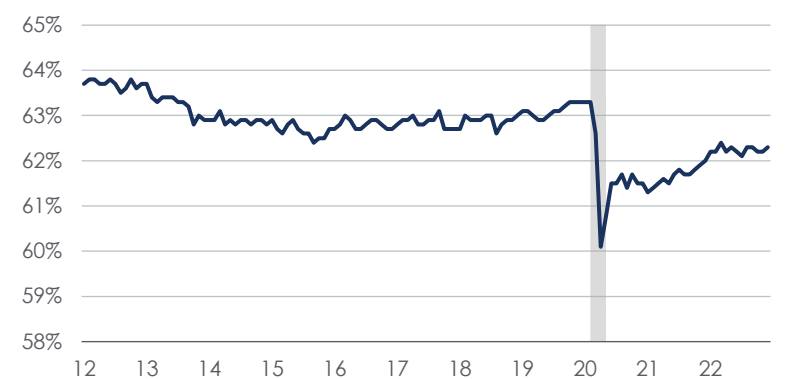
Labor Market Slack (000's)



Wage Growth (Y/Y % Change)



Labor Force Participation Rate



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

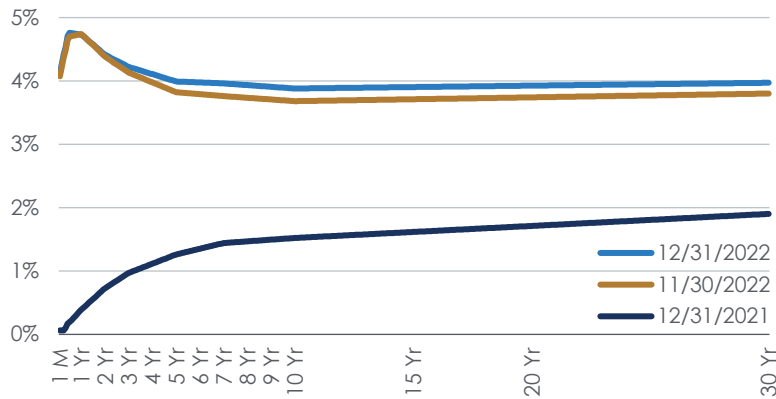


Bond Market Perspective

Arguably the most painful move in markets during 2022 was the sharp decline in government bond prices which led to demonstrably higher yields. We all know that stocks can provide a bumpy ride but the unusually large sell-off in government bonds, alongside falling stock prices, left investors with no port in the storm. This was caused by central banks having to raise interest rates by far more than investors had expected at the beginning of the year because of runaway inflation.

U.S. Treasury Market

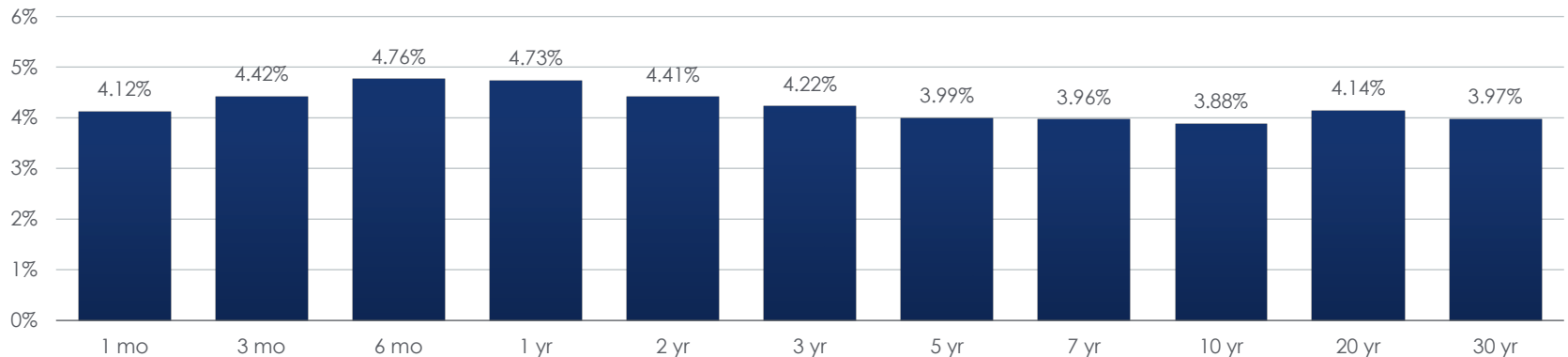
U.S Treasury Yield Curve



Historical U.S. 10-Year Treasury Rate

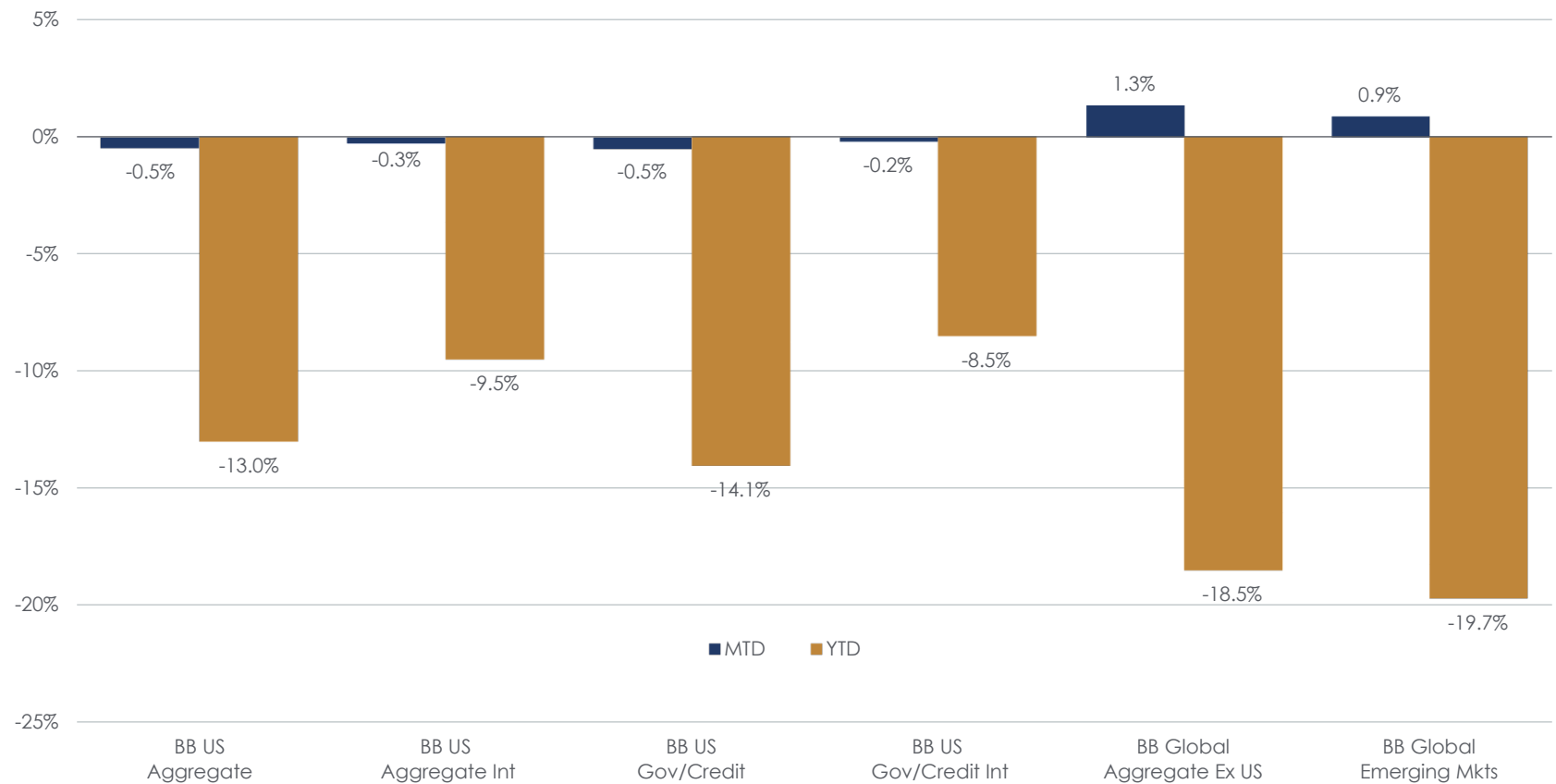


Current U.S. Treasury Yields by Maturity



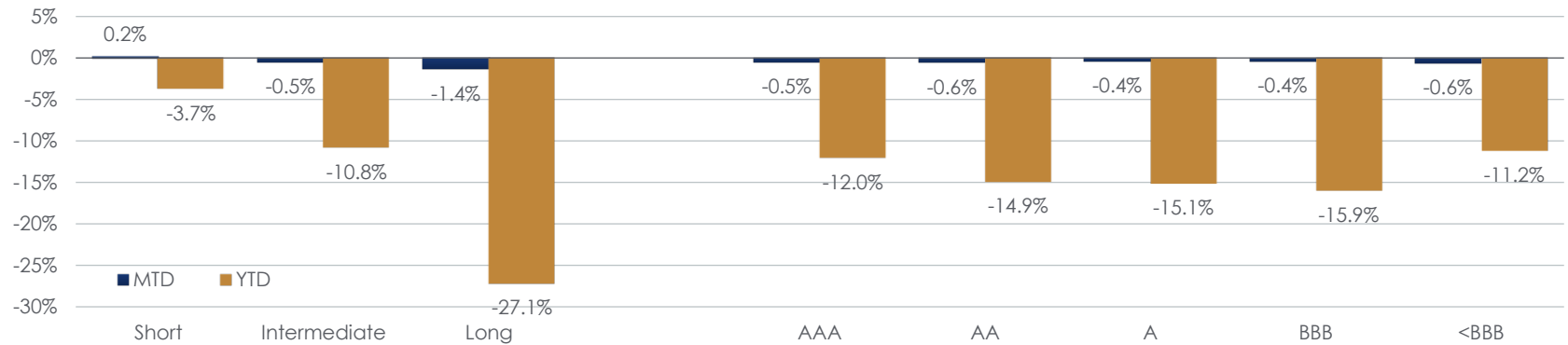
Source: U.S. Department of Treasury

Global Fixed Income Returns by Bellwether Index

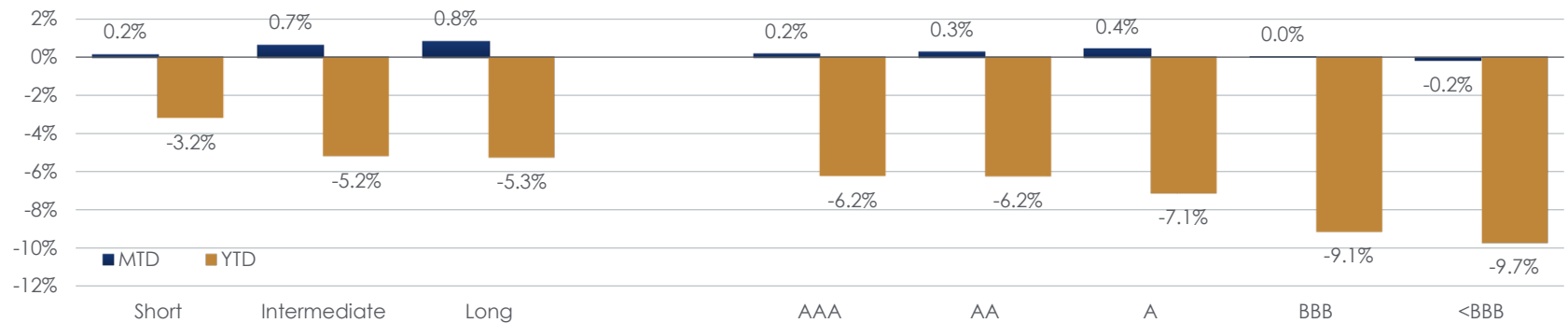


Domestic Fixed Income Returns by Maturity and Credit Quality

Domestic Bond Market - Taxable



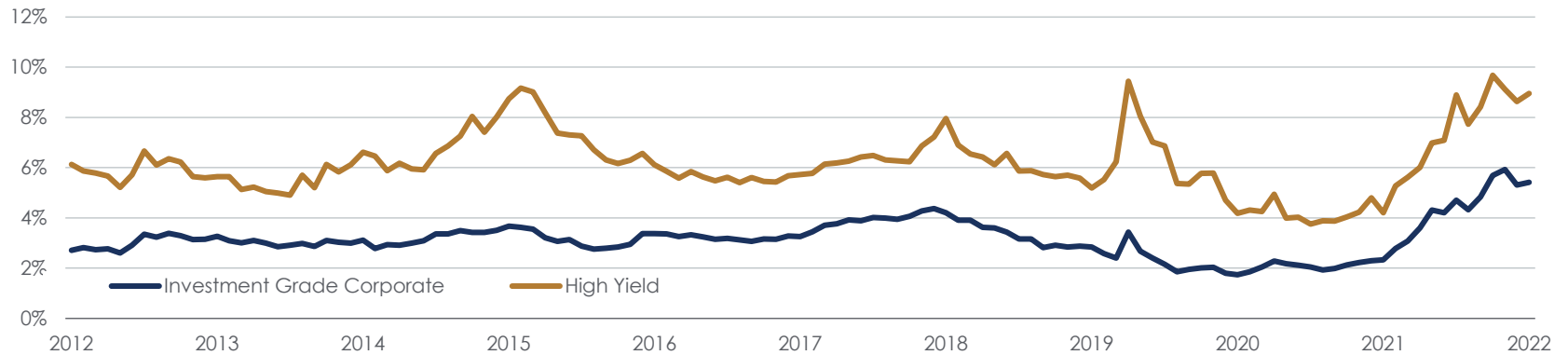
Domestic Bond Market - Municipal



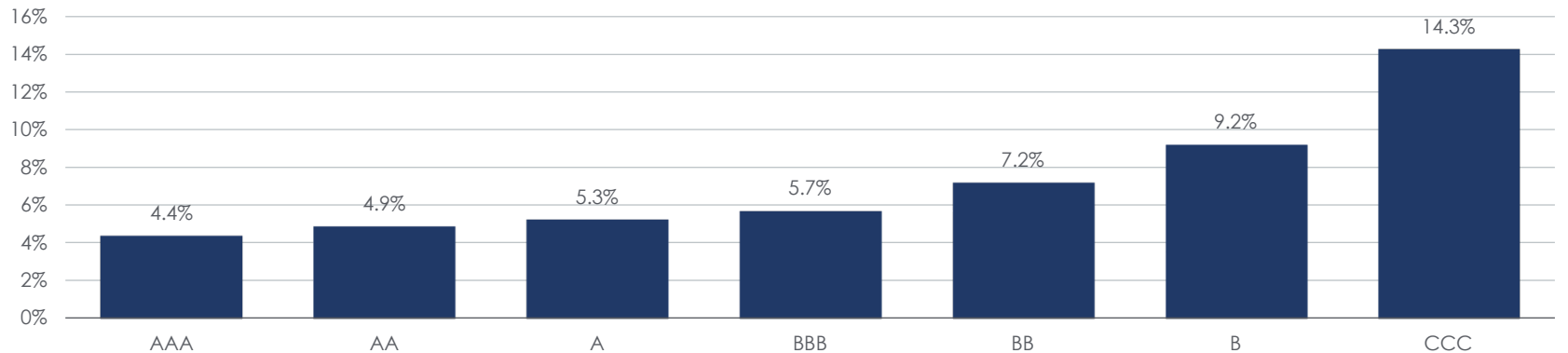
Short is defined as 1-3 years for taxable and 3 years for municipal, Intermediate is 5-7 years for taxable and 6-8 years for municipal, Long is 10+ years for taxable and 8-12 years for municipal. Source: Bloomberg Barclays Aggregate Bond Index (taxable bond market) and Bloomberg Barclays Municipal Index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

Domestic Corporate Bond Yields

Historical Corporate Bond Market Yield to Worst



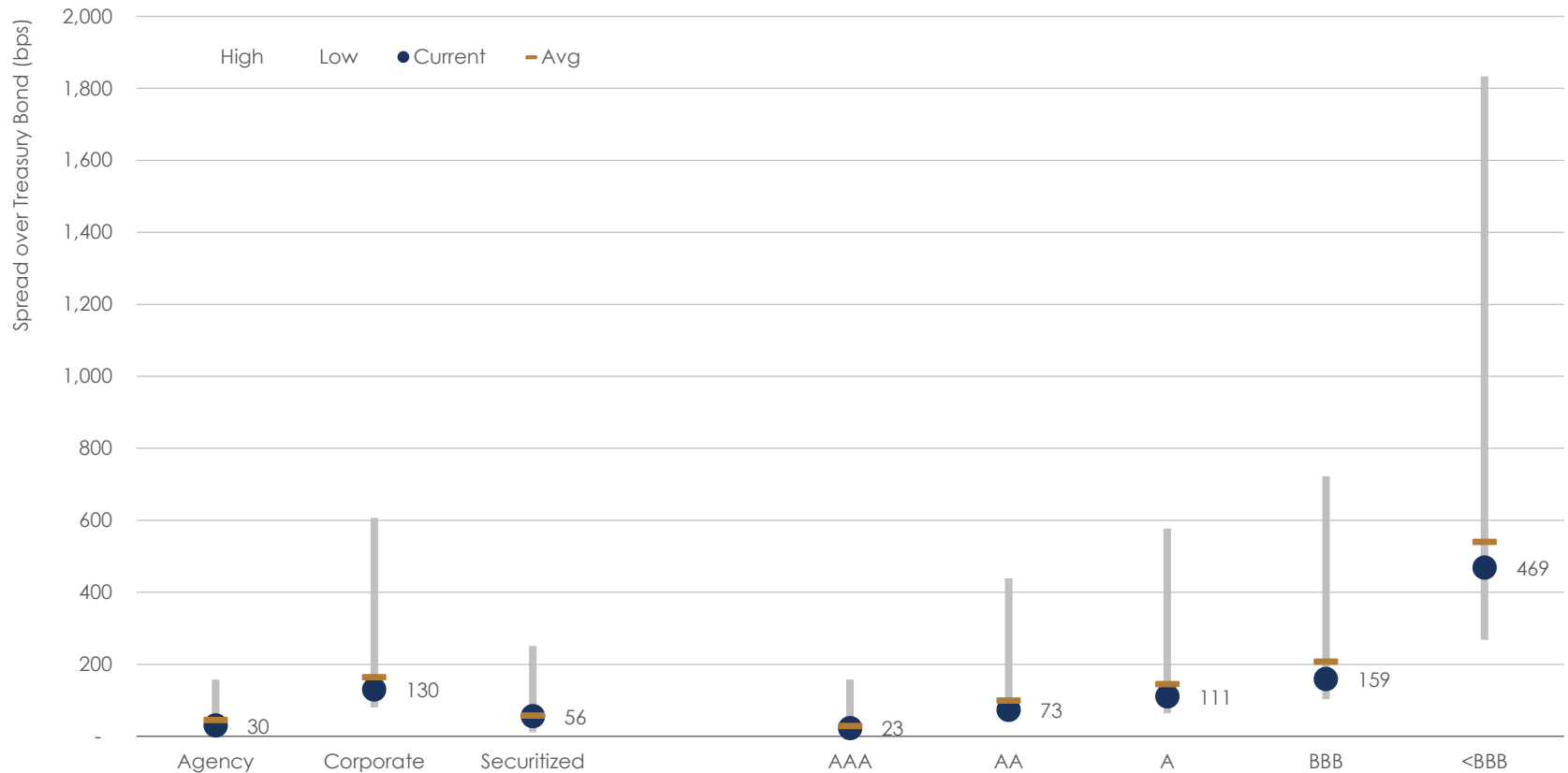
Current Corporate Bond Market Yields by Credit Quality



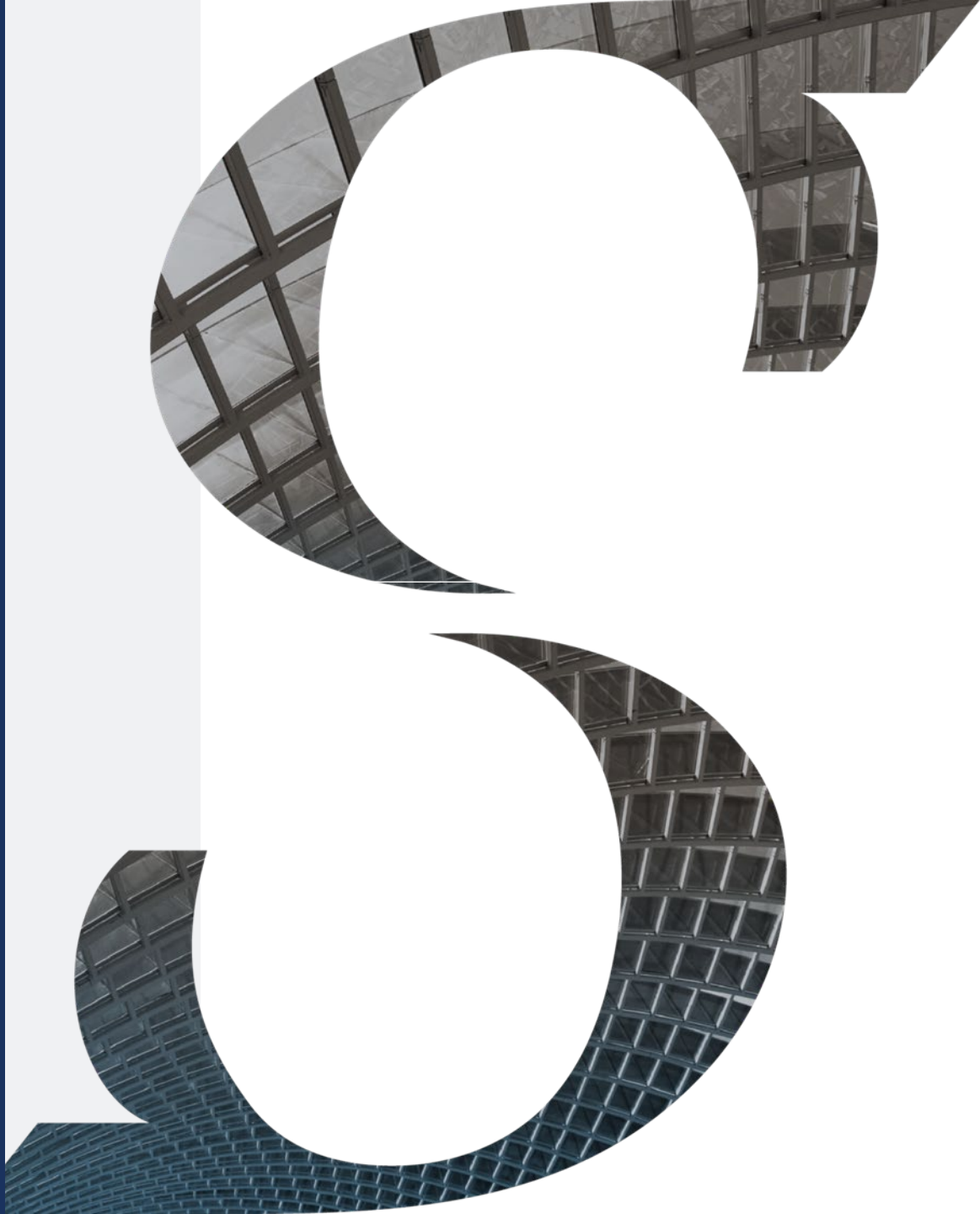
Investment Grade Corporate bonds are represented by the Bloomberg Barclays U.S. Corporate Investment Grade index. High Yield bonds are represented by the Bloomberg Barclays U.S. Corporate High Yield index. Source: Bloomberg Barclays

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

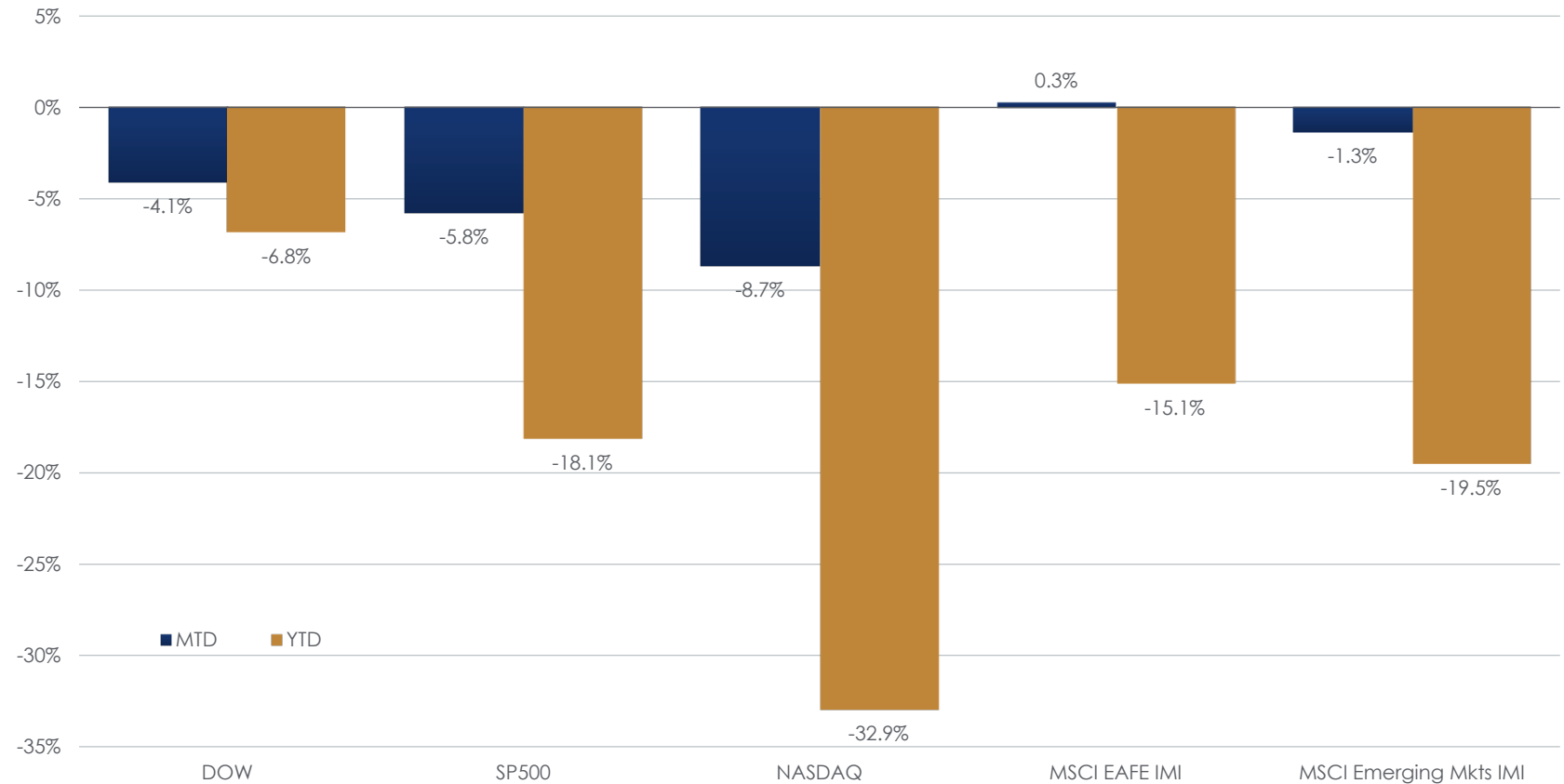


Equity Market Perspective

2022 was arguably a difficult year for equities as all bellwether indices recorded negative returns. For the year, value stocks significantly outperformed growth stocks, which can largely be explained by the high starting valuations for growth stocks and the effect of rising interest rates. Energy was the only positive sector, while Communication Services was the worst sector. The Information Technology sector was down 28.2% and accounted for approximately 44% of the S&P 500 index decline. While 2022's markets were less than ideal, they do come after a three-year run-up of 90%.

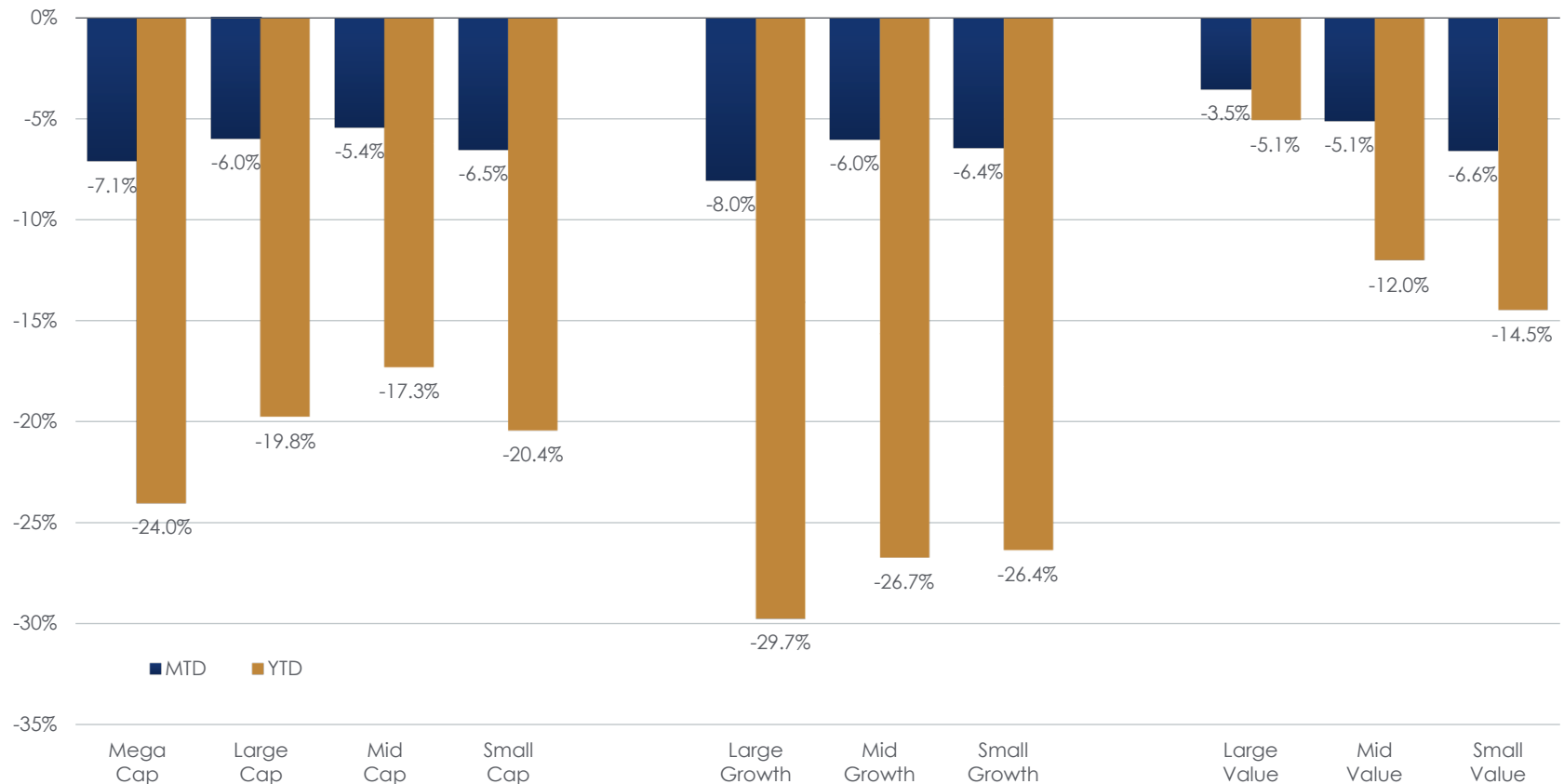
Global Equity Returns by Bellwether Index

Global Equity Markets



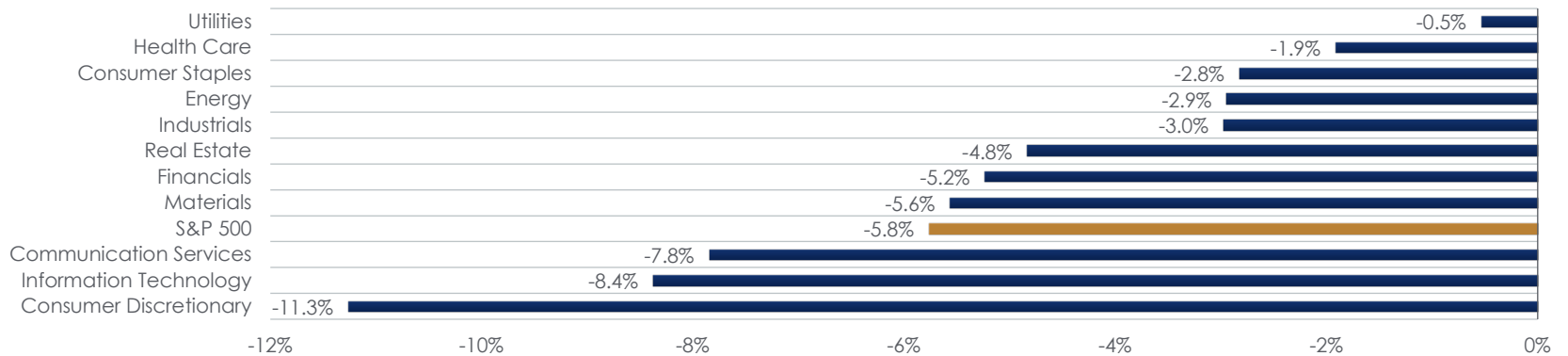
Domestic Equity Returns by Market Cap & Style

Domestic Equity Markets

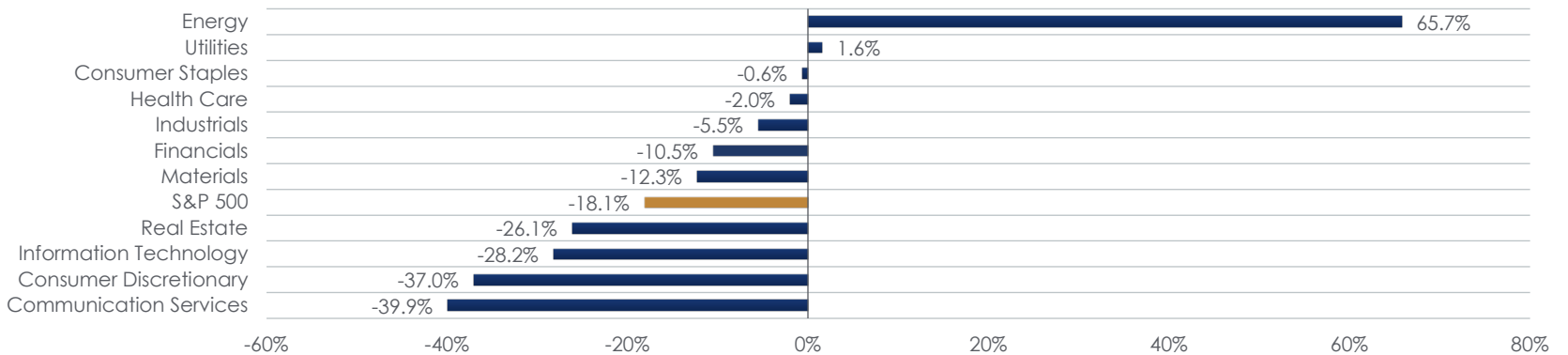


Domestic Equity Returns by Sector

MTD S&P 500 Returns by Sector

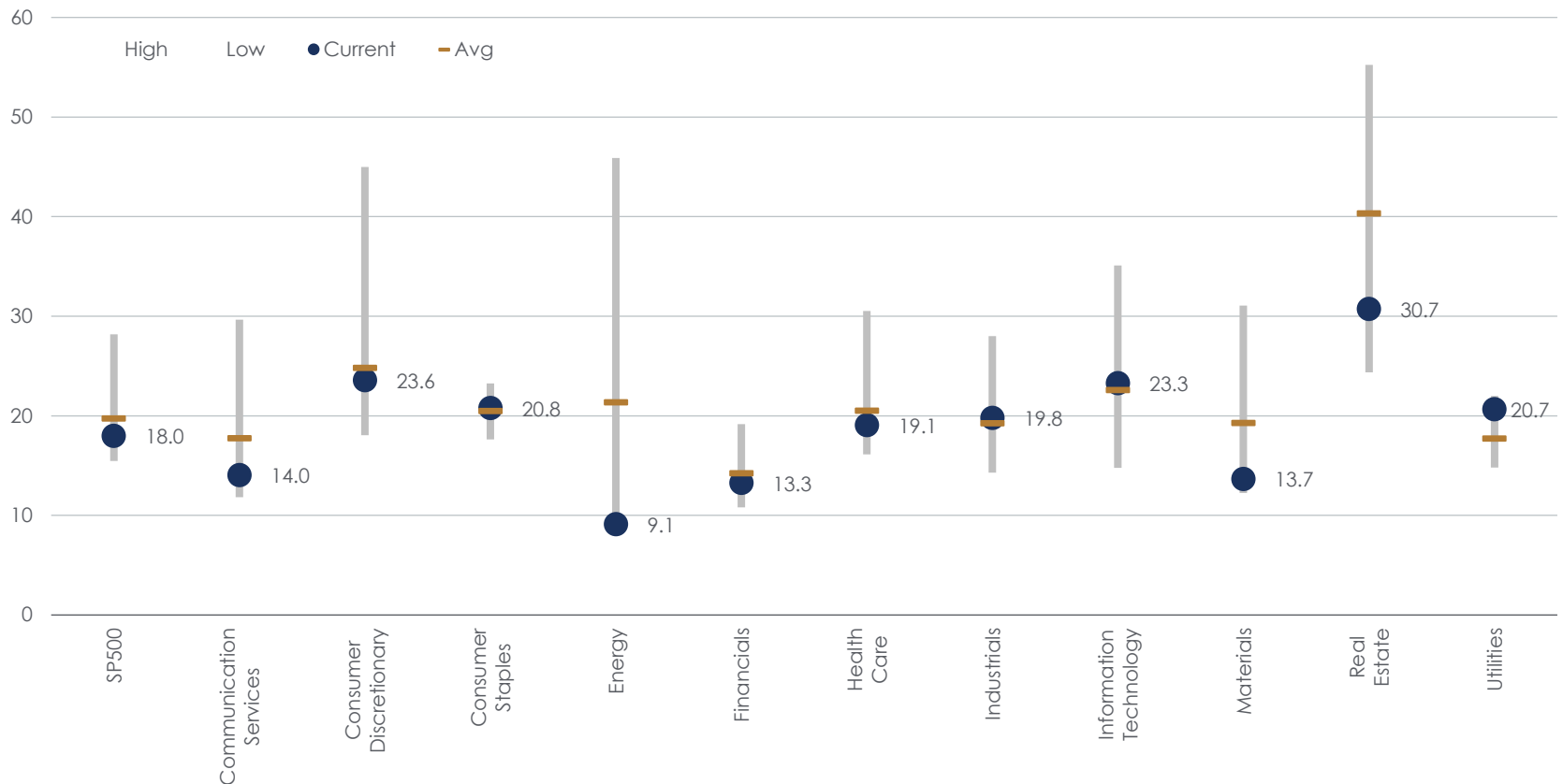


YTD S&P 500 Returns by Sector



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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