

# Chart Book

AS OF APRIL 30, 2023

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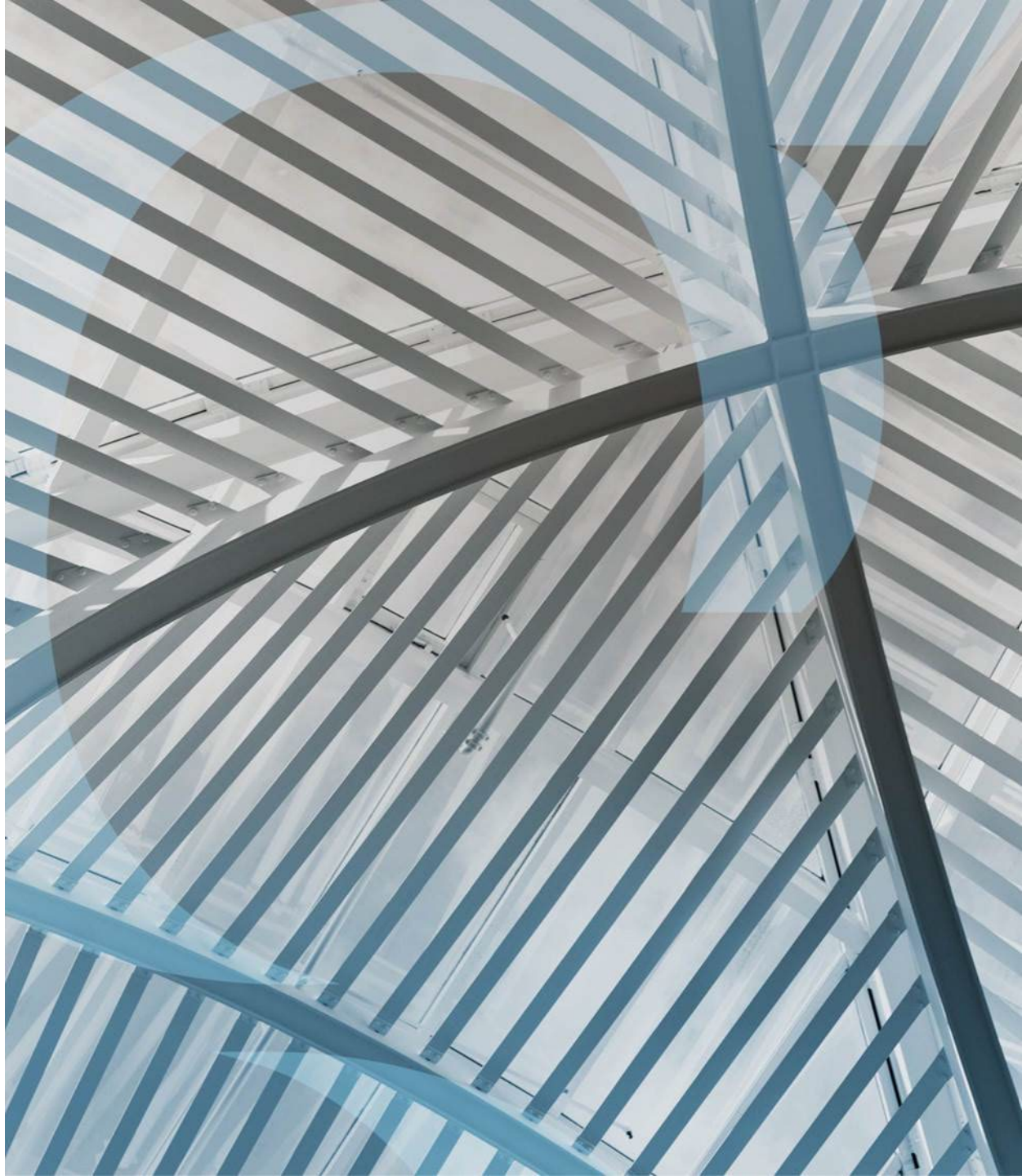
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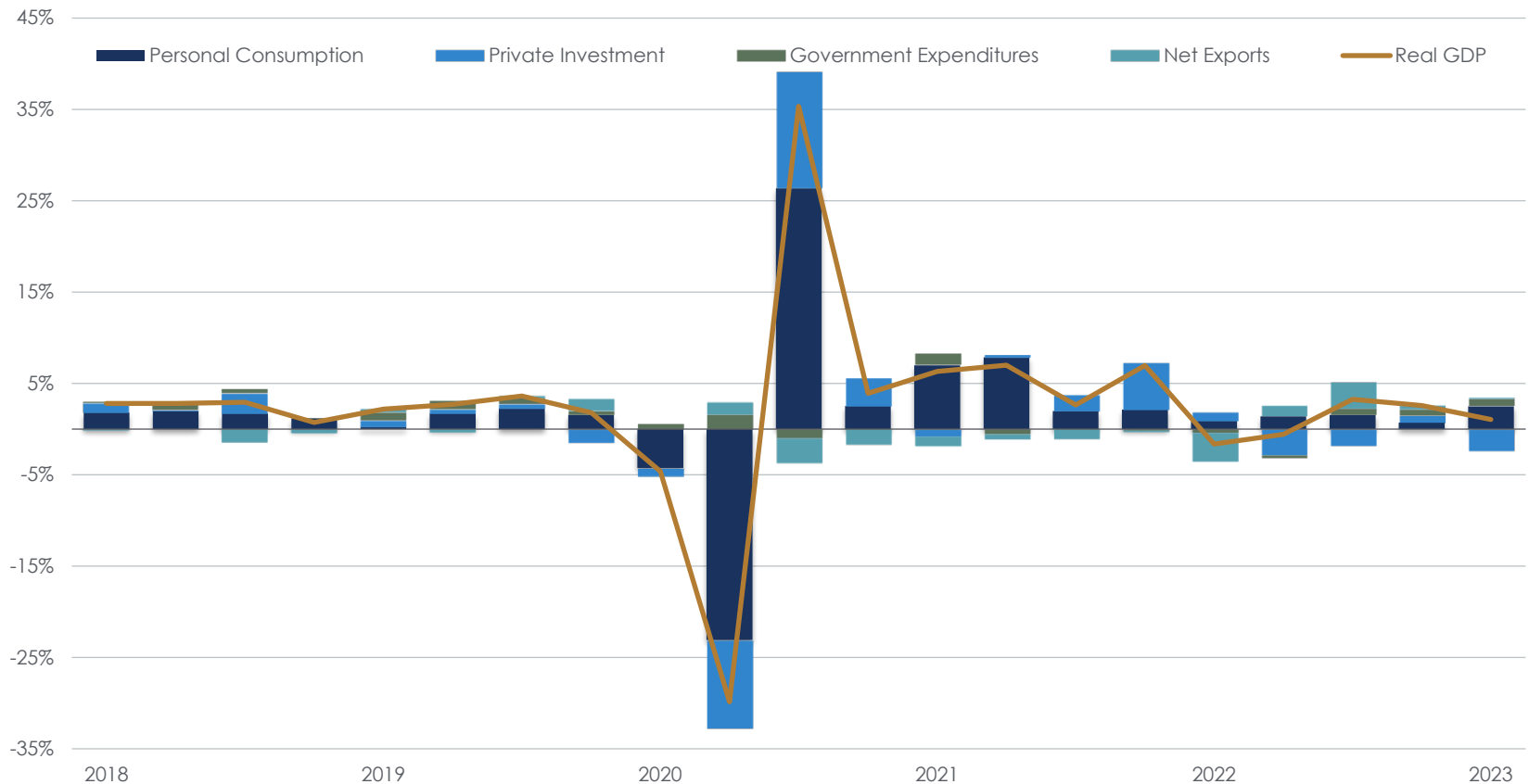
## Economic Perspective

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According to the Commerce Department, Q1 2023 U.S. real GDP expanded at an annualized rate of 1.1%. However, the headline figure masks diverging trends; private consumption growth surged to 3.7% (annualized), up from just 1% in Q4 2022, but this was largely offset by a steep decline in private inventory investment. U.S. economic data were mixed throughout the first quarter, suggesting that the U.S. economy is at a turning point and heading into a slowdown. These mixed signals complicate the task facing the Federal Reserve as it seeks to reduce inflation without unnecessarily deepening the economic slowdown.

# Economic Growth

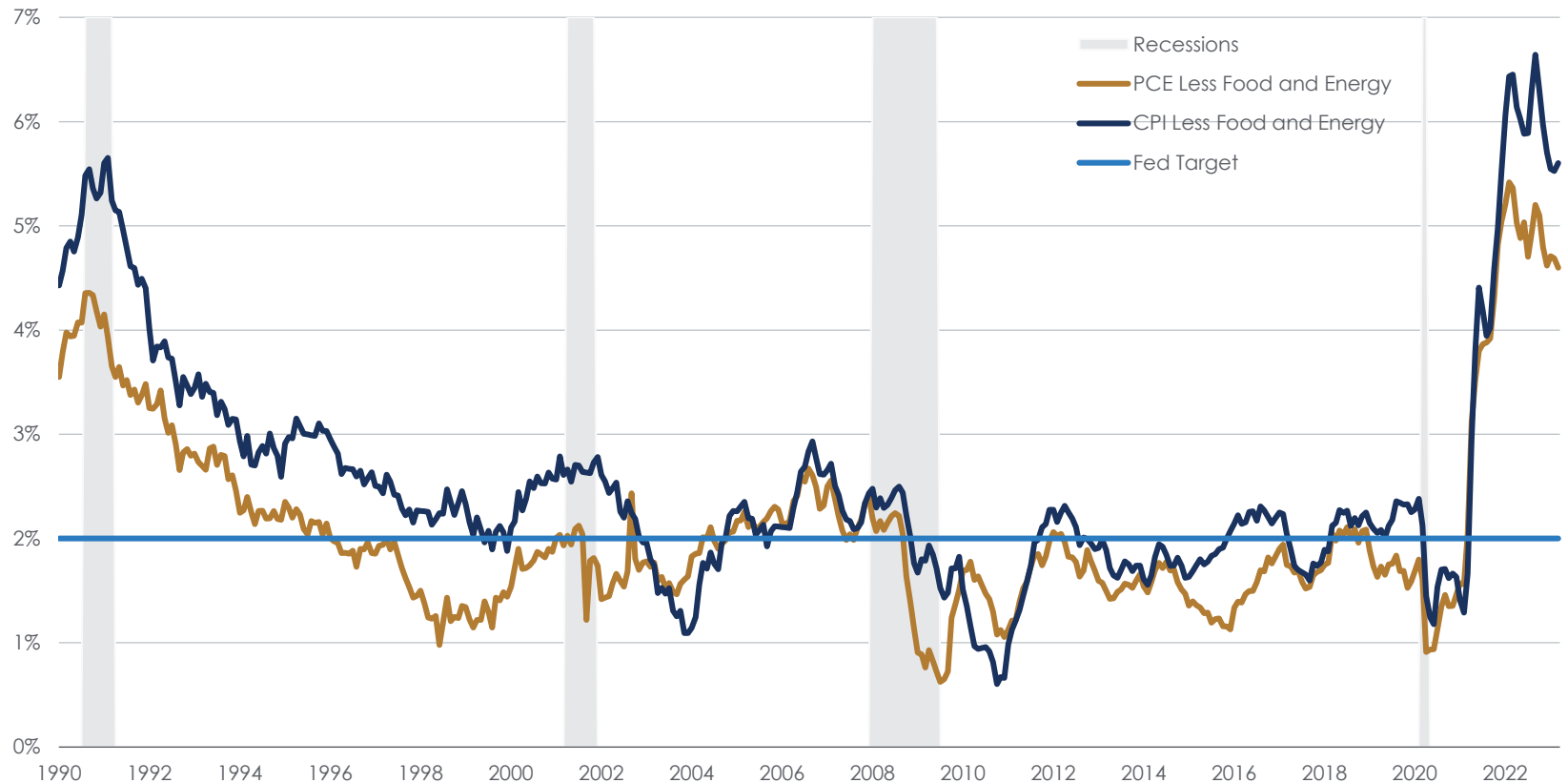
Contributions to Percent Change in Real GDP (Annualized Q/Q % Change)



The pace of consumer price increases eased again in March compared with a year earlier. However, economists believe progress may have stalled, as higher prices for core goods counteract cooling costs elsewhere. The rate of inflation has been dropping every month since hitting 9.1% in June last year. While price rises in core services — a category which includes rent and transportation — are expected to slow, analysts expect core goods inflation to be higher, driven by the rising price of used cars.

## Inflation Outlook

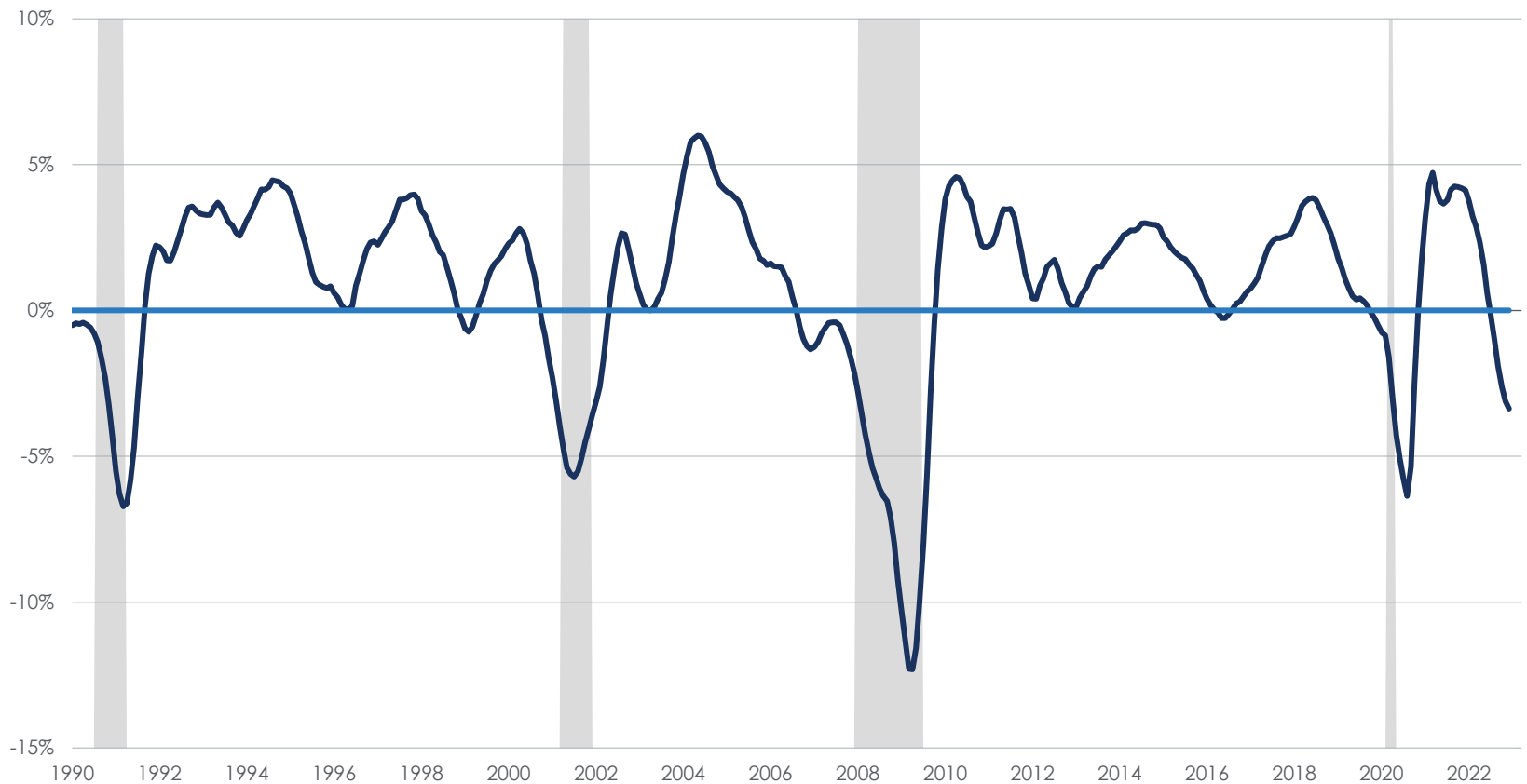
Consumer Price Index (Core) and Personal Consumption Expenditures Price Index (Core) (Y/Y % Change)



According to the Conference Board, the U.S. LEI fell to its lowest level since November of 2020, consistent with worsening economic conditions ahead. The weaknesses among the index's components were widespread in March and have been so over the past six months, which pushed the growth rate of the LEI deeper into negative territory. The Conference Board forecasts that economic weakness will intensify and spread more widely throughout the U.S. economy over the coming months.

## U.S. Economic Outlook

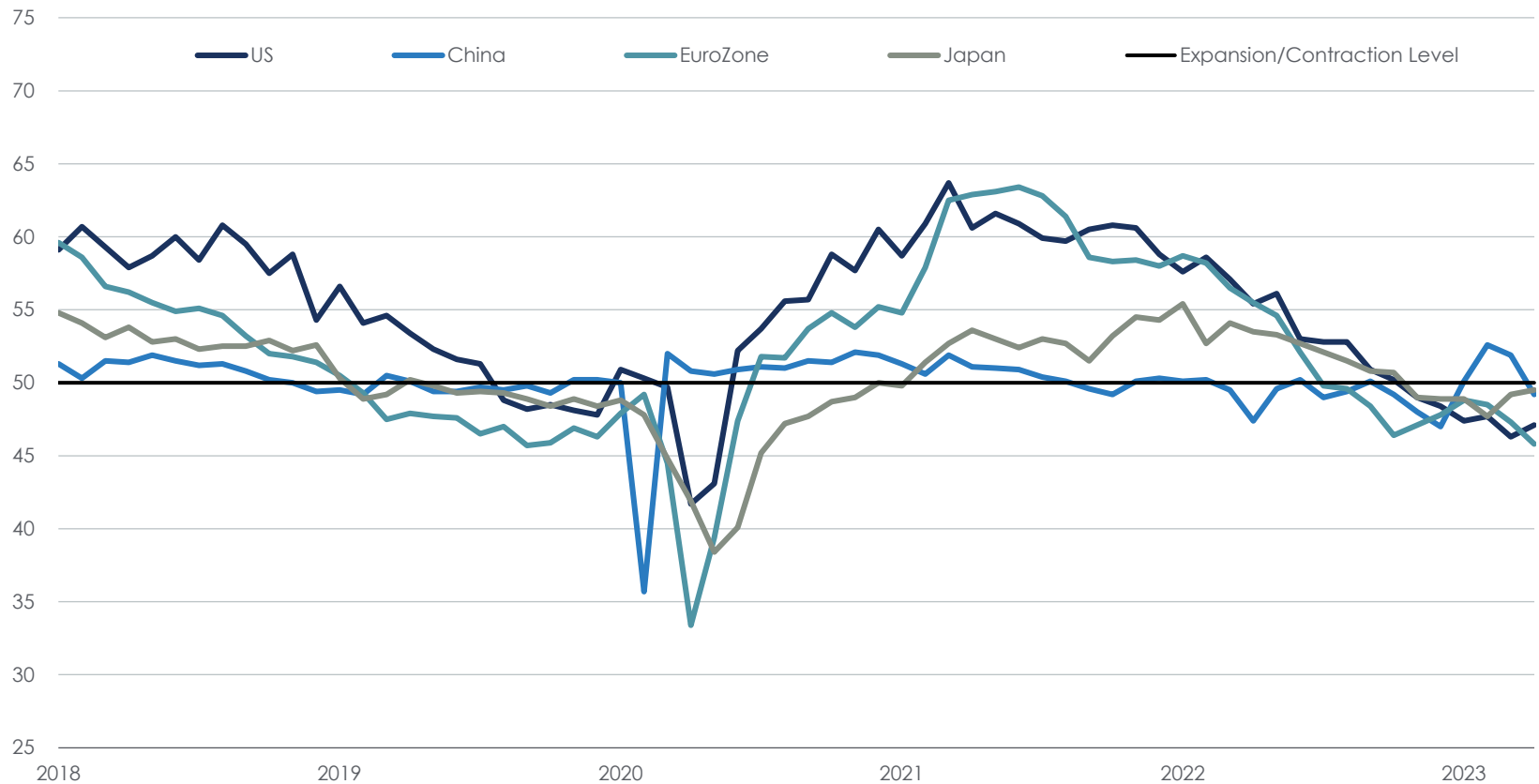
Leading Economic Index (Six-Month Moving Average of the Six-Month Rate of Change)



The April PMI surveys saw a further marginal increase in global manufacturing production, as improved supply-chain conditions and the clearance of existing backlogs offset weaker demand. Underlying details of the survey suggest that growth is being held back by softening investment spending and a continued drag from inventories.

# Global Economic Outlook

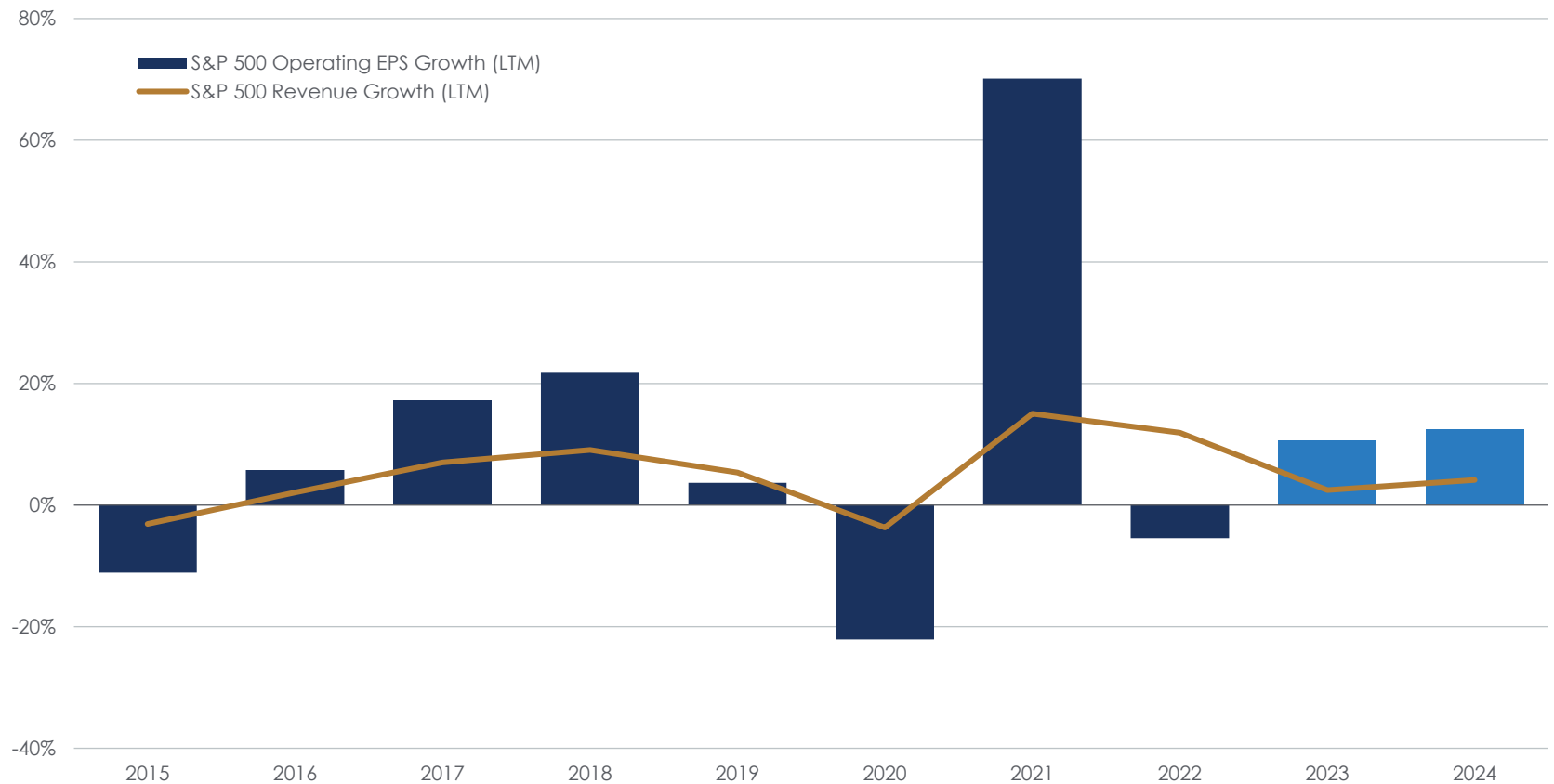
Manufacturing Purchasing Managers Index (PMI) (A PMI over 50 represents growth in manufacturing)



According to FactSet, the bottom-up target price target for the S&P 500 over the next 12 months is 4689, which is 15.5% above the closing price of 4061. At the sector level, the Energy (+27.5%) and Communication Services (+22.5%) sectors are expected to see the largest price increases. On the other hand, the Consumer Staples (+9.2%) and Information Technology (+10.9%) sectors are expected to see the smallest price increases.

## Corporate Profitability

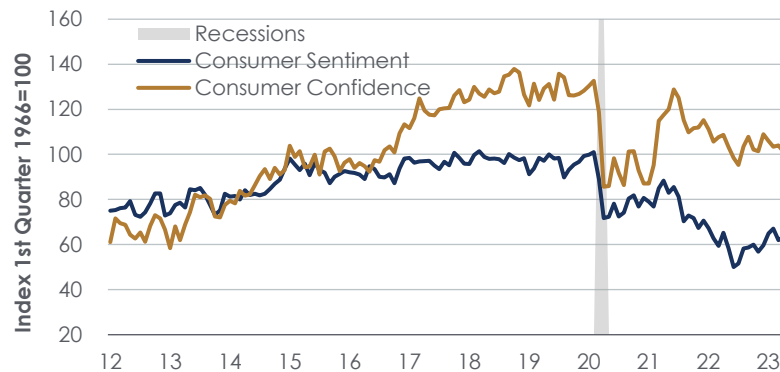
S&P 500 Operating Earnings Per Share and Revenue Per Share Growth (Y/Y % Change)



According to the Conference Board, while consumers' assessment of the current business environment improved in April, their overall expectations fell and remain below the level which often signals a recession in the short-term. April's results show consumer inflation expectations over the next 12 months remain essentially unchanged at 6.2% —although that level is down substantially from last years peak of 7.9%, it is still elevated. Overall purchasing plans for homes, autos, appliances, and vacations all pulled back in April, a signal that consumers may be economizing amid growing pessimism.

# 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)





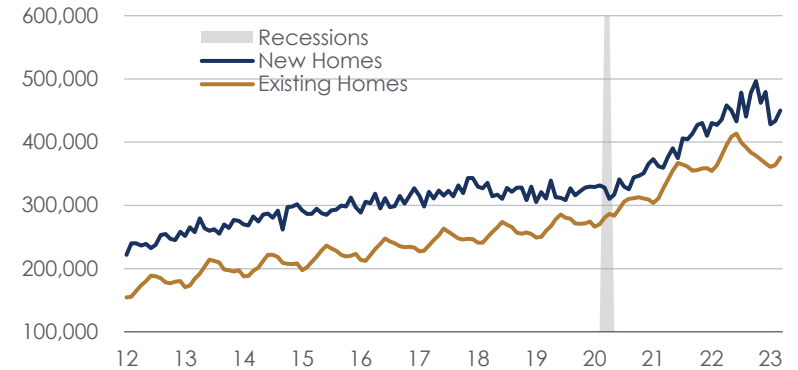
According to the National Association of Realtors, sales and prices are both down nationally but with inventory at historic lows and strong demand in certain price categories, there is still a good deal of competition for homes. Last month, 28% homes sold for above the list price. Overall, the inventories are sitting longer, but fresh listings are not popping into the market. This is due to the lock-in effect of homeowners who love their 3% interest rate.

## Housing Market Outlook

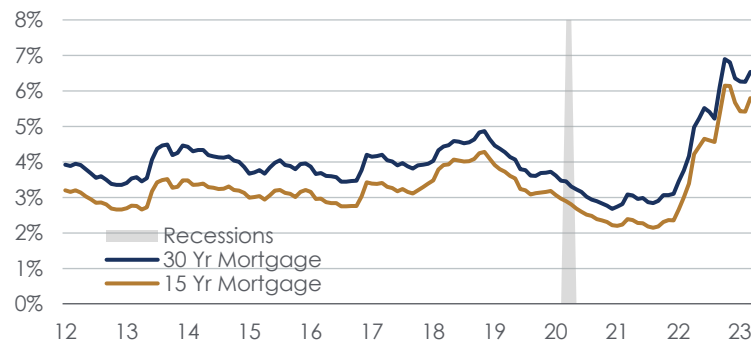
Housing Affordability (higher = more affordable)



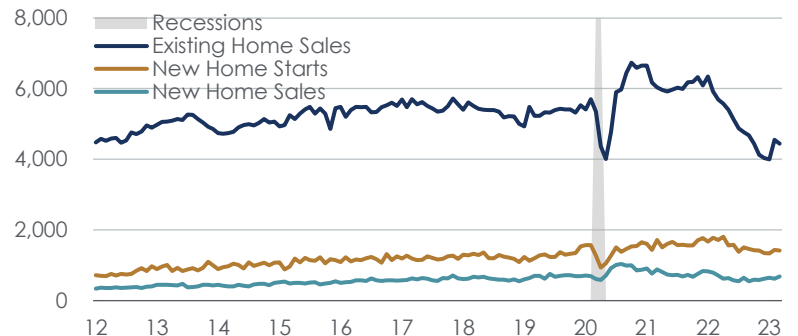
Median Selling Price of New and Existing Homes



Average Fixed Rate Mortgage in the U.S.®



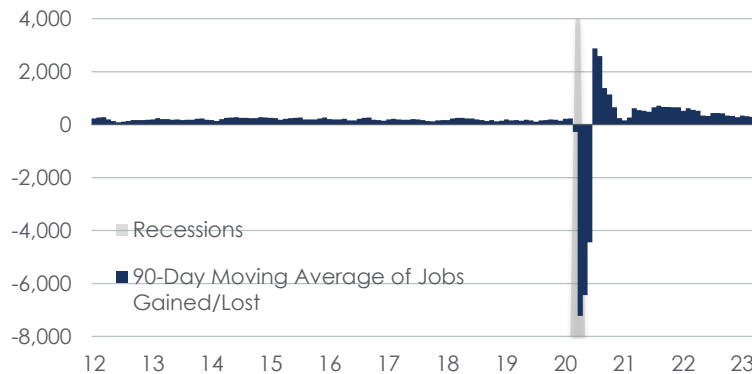
Housing Starts, Existing Home Sales and New Home Sales (000's)



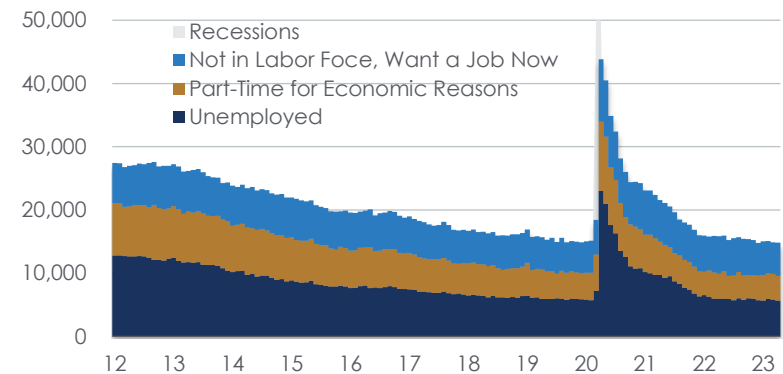
Nonfarm payrolls rose by 253,000 jobs last month and wage gains increased solidly, pointing to persistent labor market strength that could compel the Federal Reserve to keep interest rates higher for longer as it fights to bring inflation under control. The Labor Department's employment report also showed the unemployment rate falling back to a 53-year low of 3.4%. Though data for February and March were revised sharply lower, the labor market is slowing only marginally.

## Labor Market Outlook

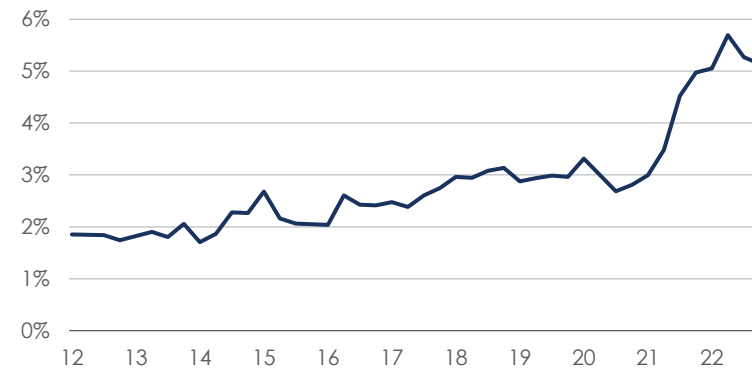
Jobs Gained/Lost (000's) with 12-Month Moving Average



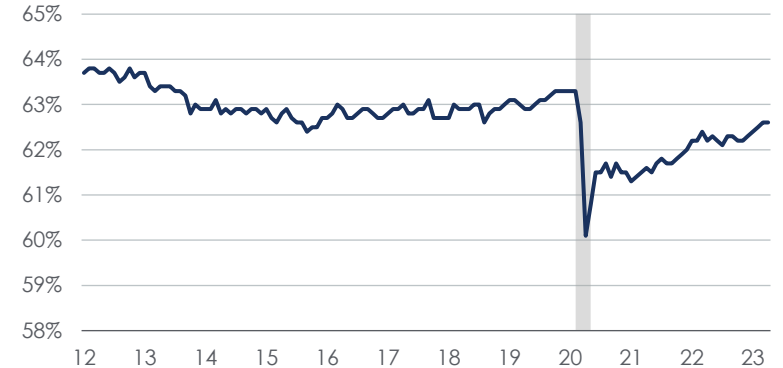
Labor Market Slack (000's)



Wage Growth (Y/Y % Change)



Labor Force Participation Rate





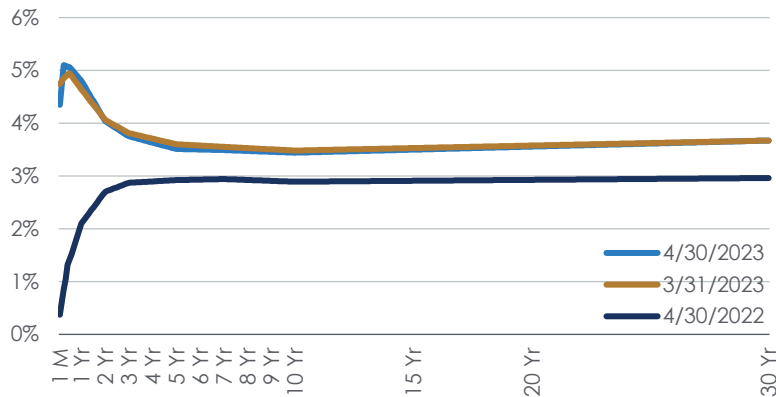
## Bond Market Perspective

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Compared to the volatility seen in March, April was a much calmer month for fixed income markets. Having rallied sharply in response to the collapse of Silicon Valley Bank in March, interest rate expectations drifted higher during April as the situation appeared to have been contained and the focus turned back to the economic outlook. The yield on the benchmark 10-year U.S. Treasury ended the month just 5 basis points (bps) lower than at the end of March, having traded in a relatively tight range during the month. Similarly, the shape of the yield curve was also relatively stable over the month given the lack of directionality.

## U.S. Treasury Market

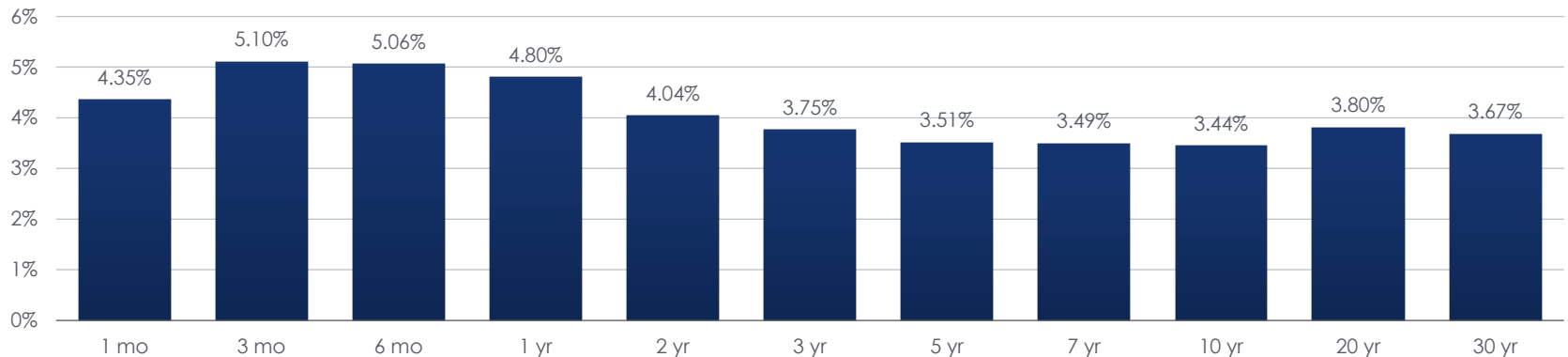
### U.S Treasury Yield Curve



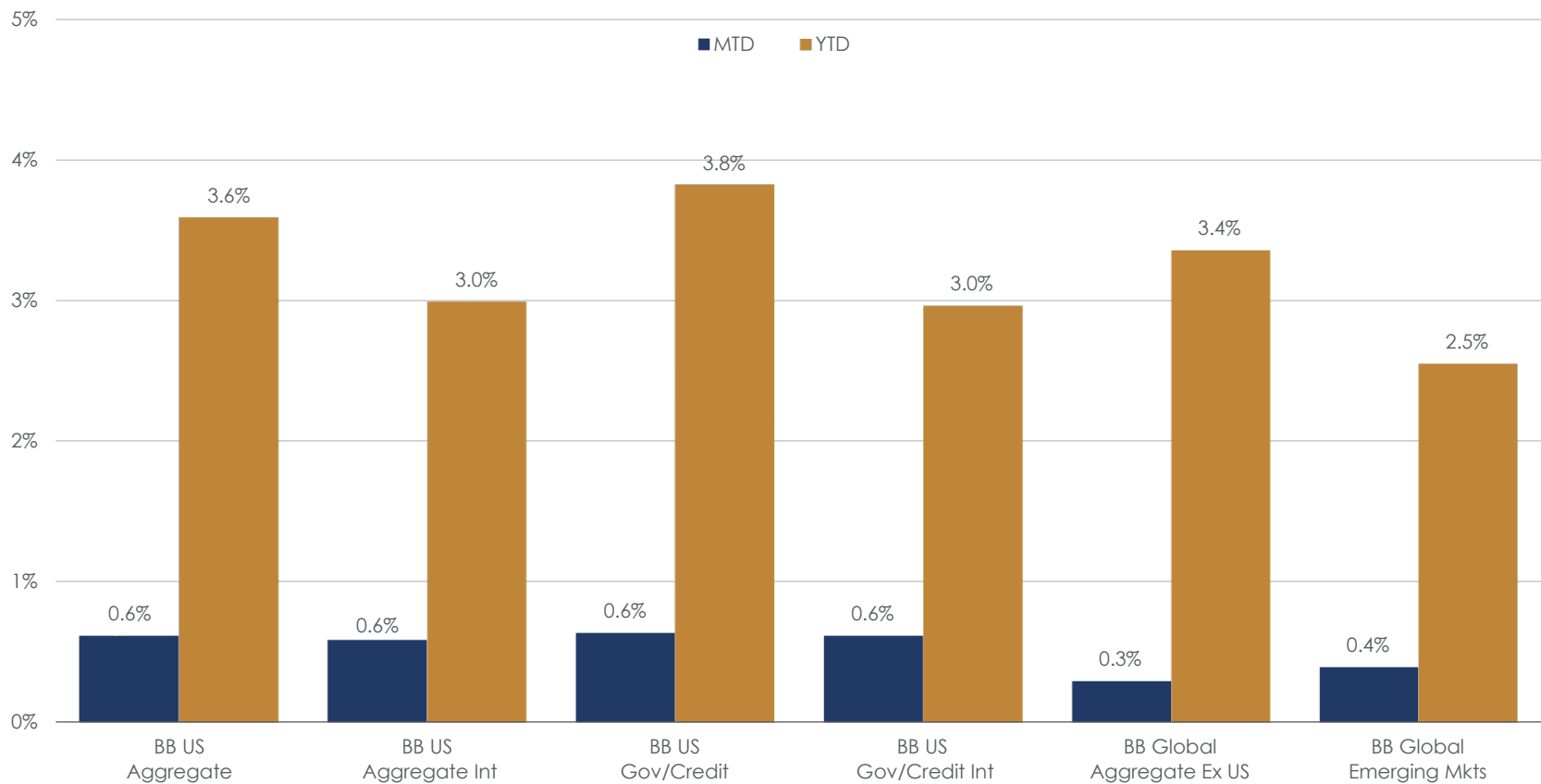
### Historical U.S. 10-Year Treasury Rate



### Current U.S. Treasury Yields by Maturity

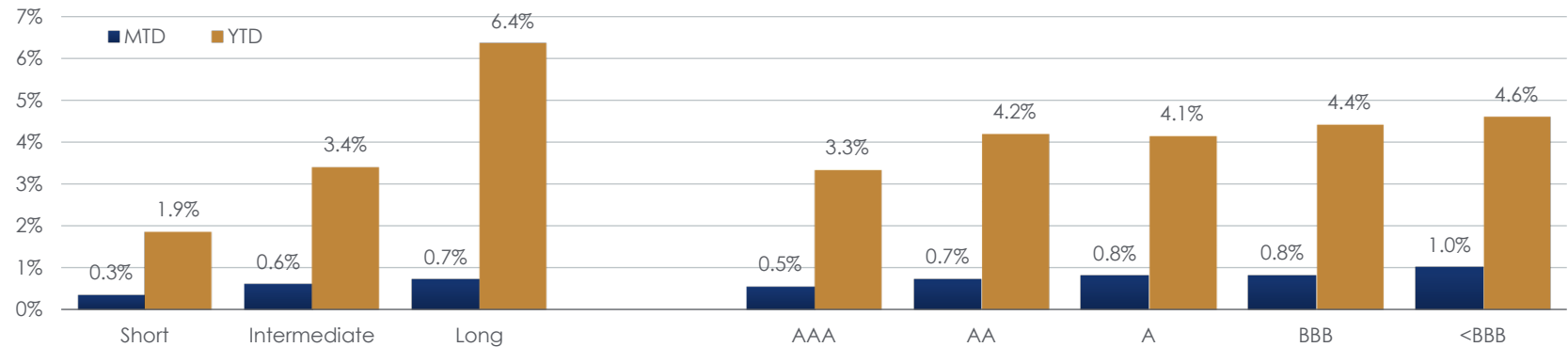


# Global Fixed Income Returns by Bellwether Index

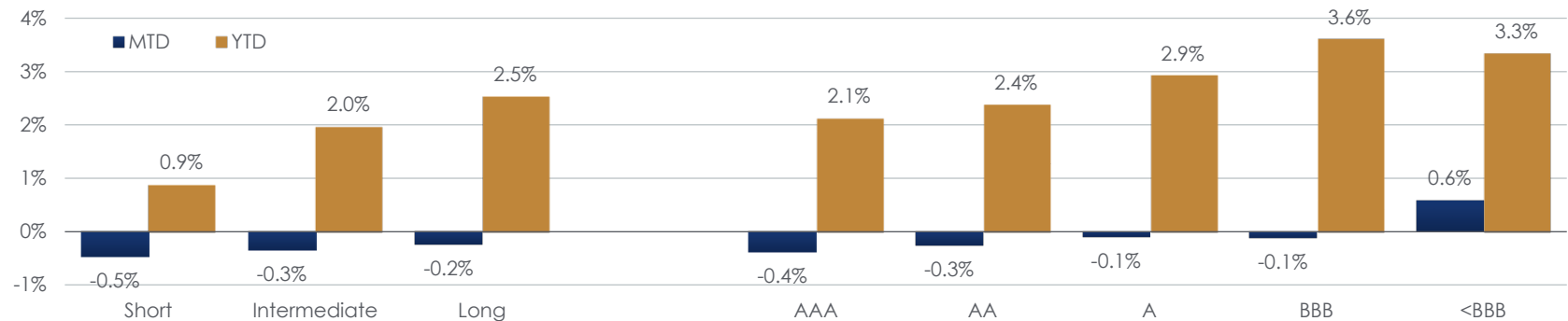


# Domestic Fixed Income Returns by Maturity and Credit Quality

Domestic Bond Market - Taxable



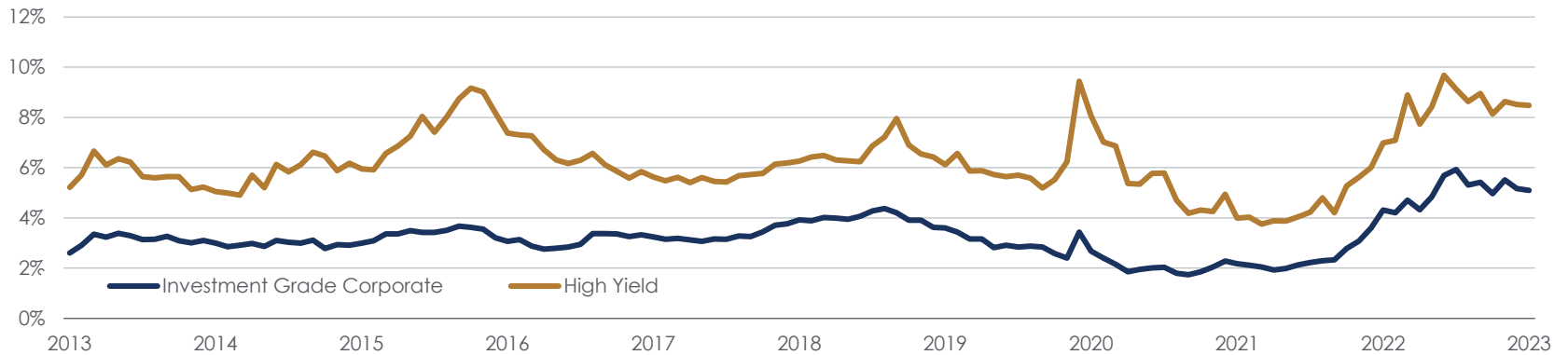
Domestic Bond Market - Municipal



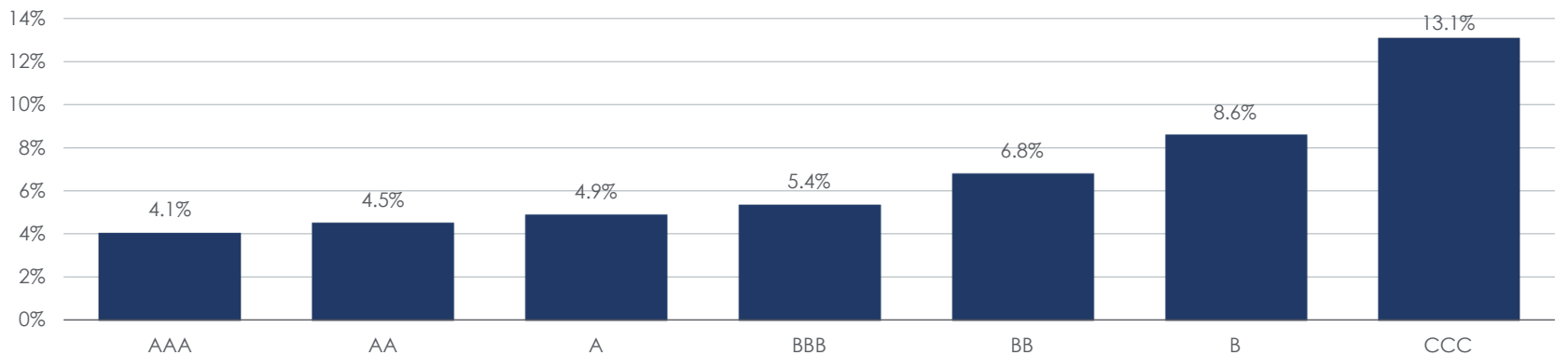
Short is defined as 1-3 years for taxable and 3 years for municipal, Intermediate is 5-7 years for taxable and 6-8 years for municipal, Long is 10+ years for taxable and 8-12 years for municipal. Source: Bloomberg Barclays Aggregate Bond Index (taxable bond market) and Bloomberg Barclays Municipal Index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

# Domestic Corporate Bond Yields

Historical Corporate Bond Market Yield to Worst



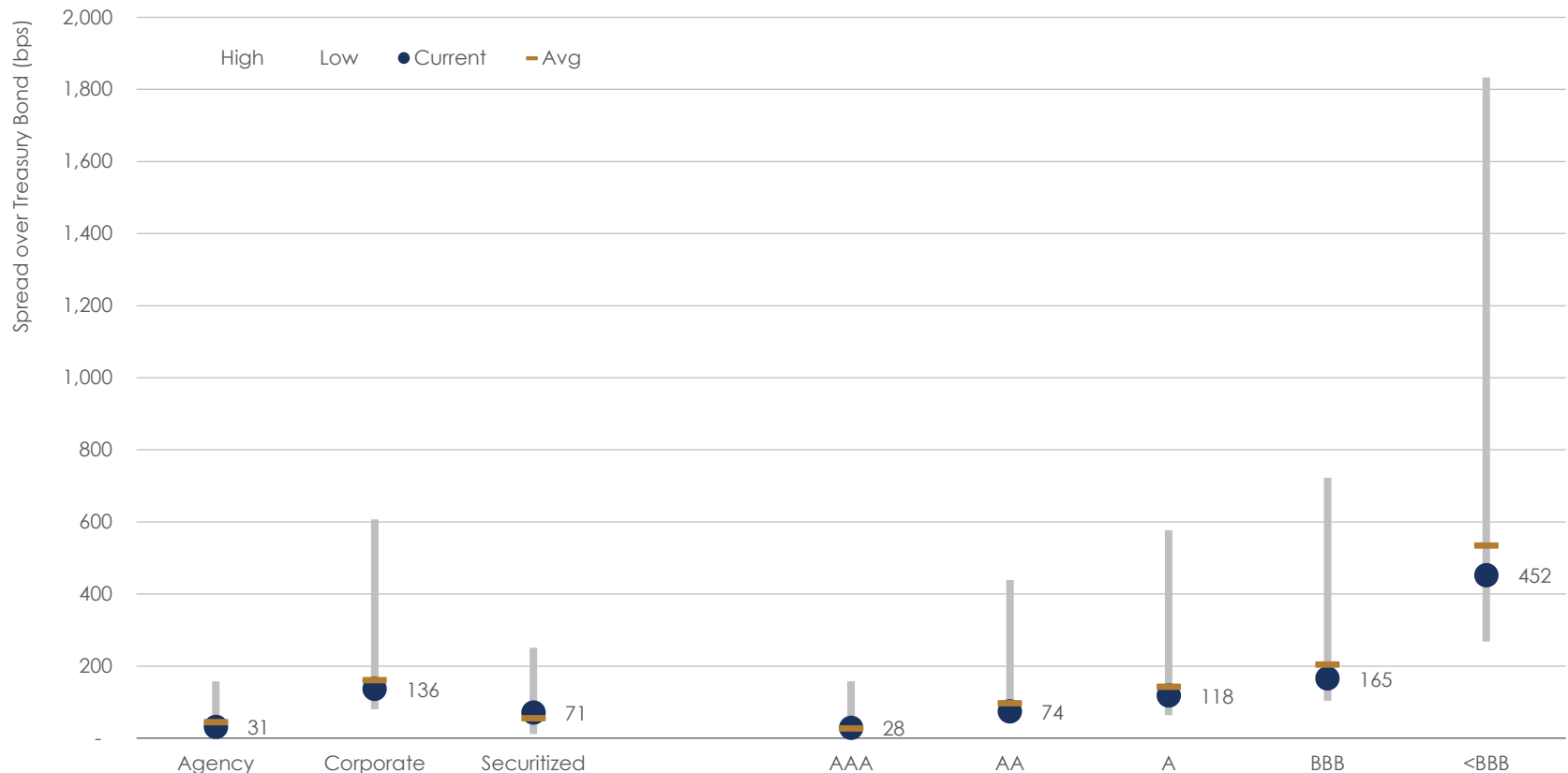
Current Corporate Bond Market Yields by Credit Quality



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





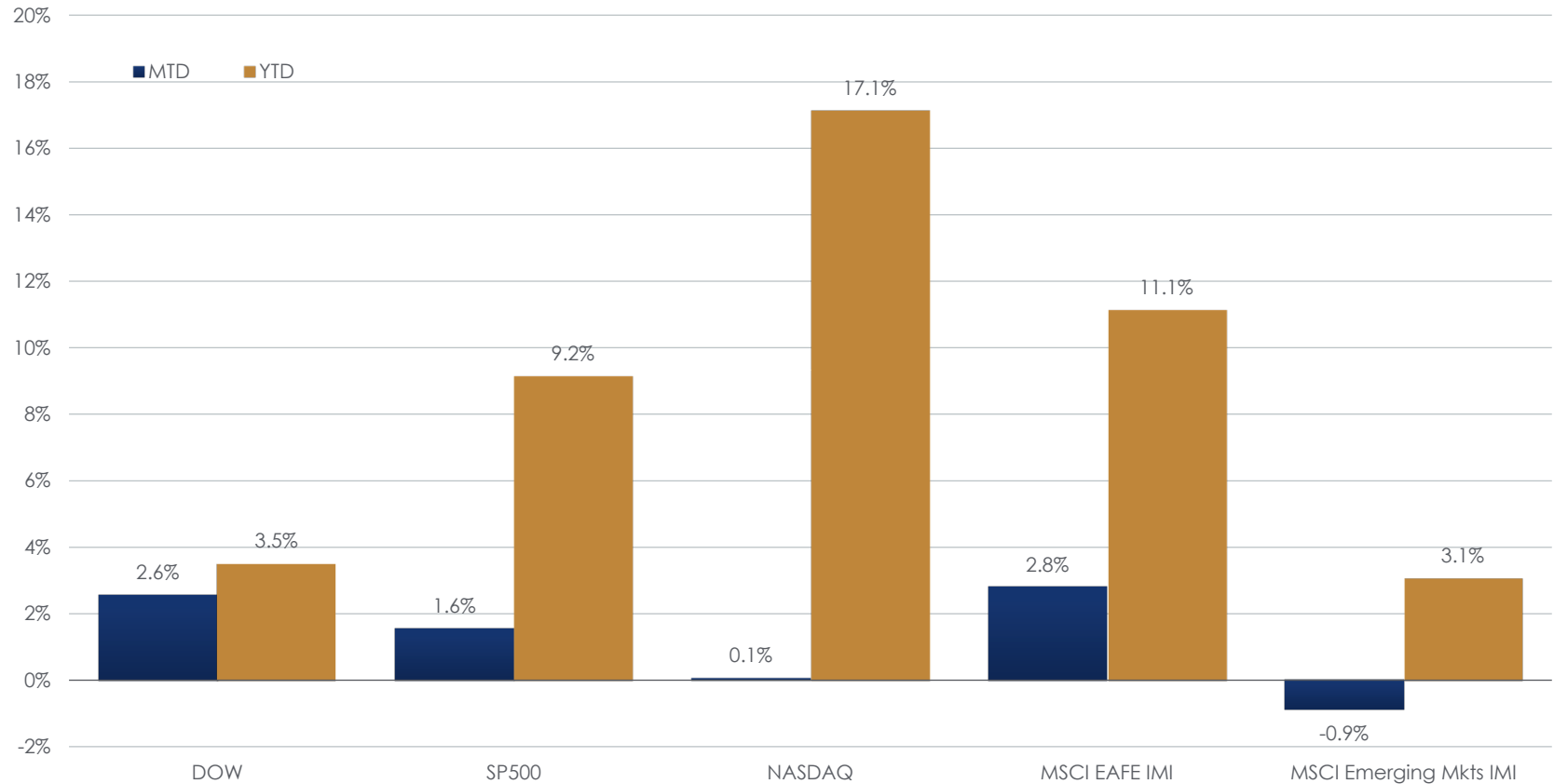
## Equity Market Perspective

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Markets were mixed in April. U.S. Small Cap stocks (Russell 2000) and Emerging Markets stocks posted negative returns, while the other major market indices we track showed strength with positive monthly results. Year-to-date, the NASDAQ Composite Index maintained its leadership position, delivering exceptional results on the backs of the index's two largest sectors, Technology and Communications Services. The trend of concentrated leadership continued, with Apple, Microsoft, Amazon, Meta Platforms, and Alphabet each generating between a 22% and 100% return in 2023.

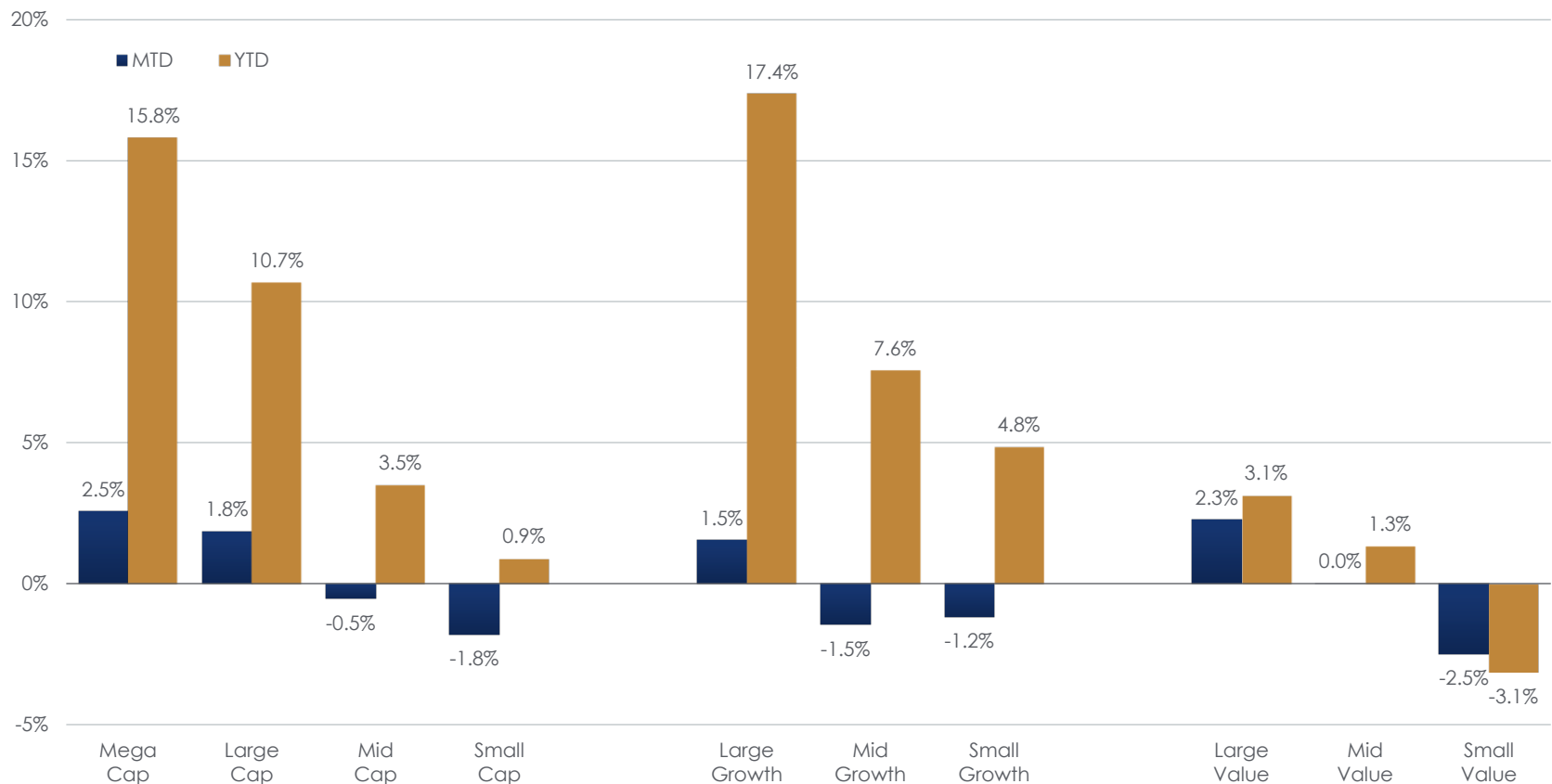
## Global Equity Returns by Bellwether Index

### Global Equity Markets



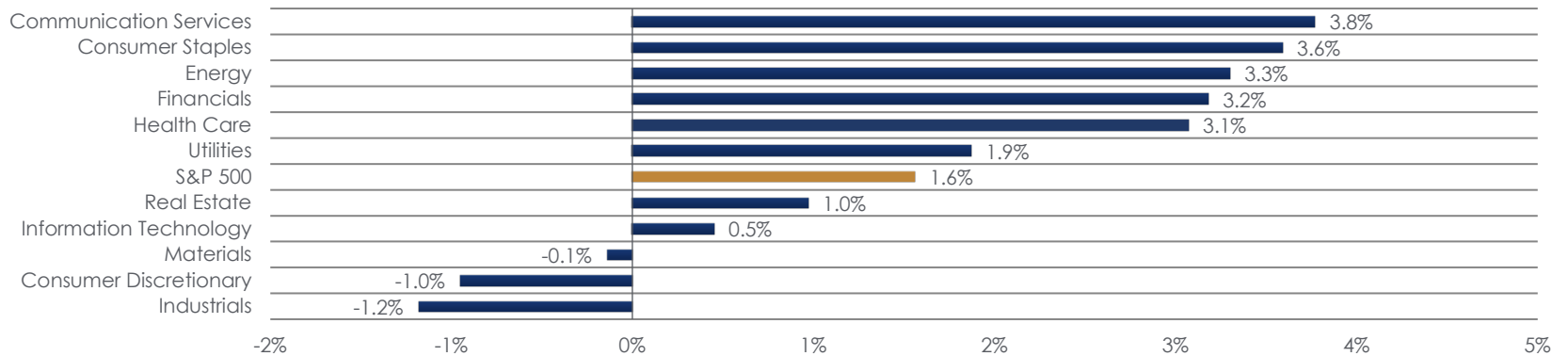
# Domestic Equity Returns by Market Cap & Style

## Domestic Equity Markets

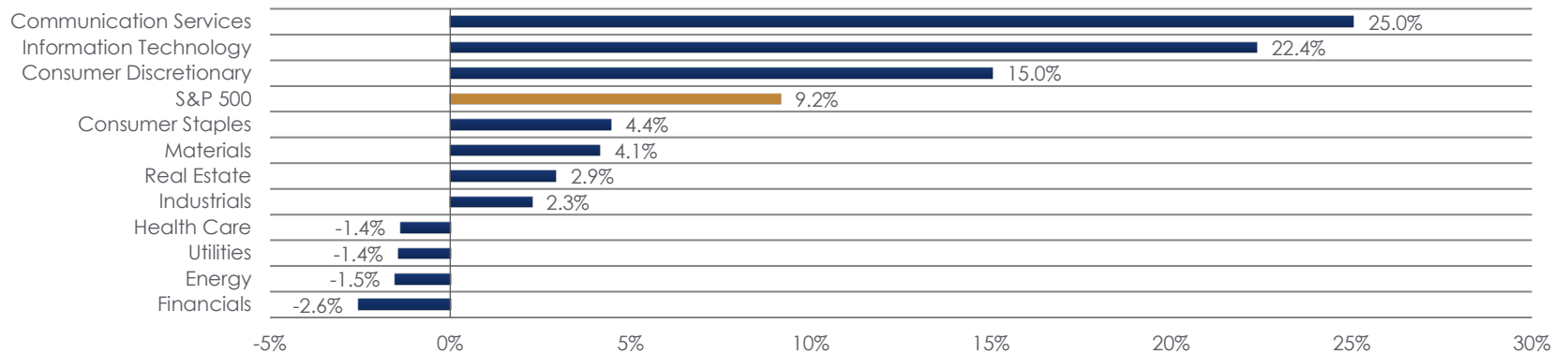


# Domestic Equity Returns by Sector

## MTD S&P 500 Returns by Sector

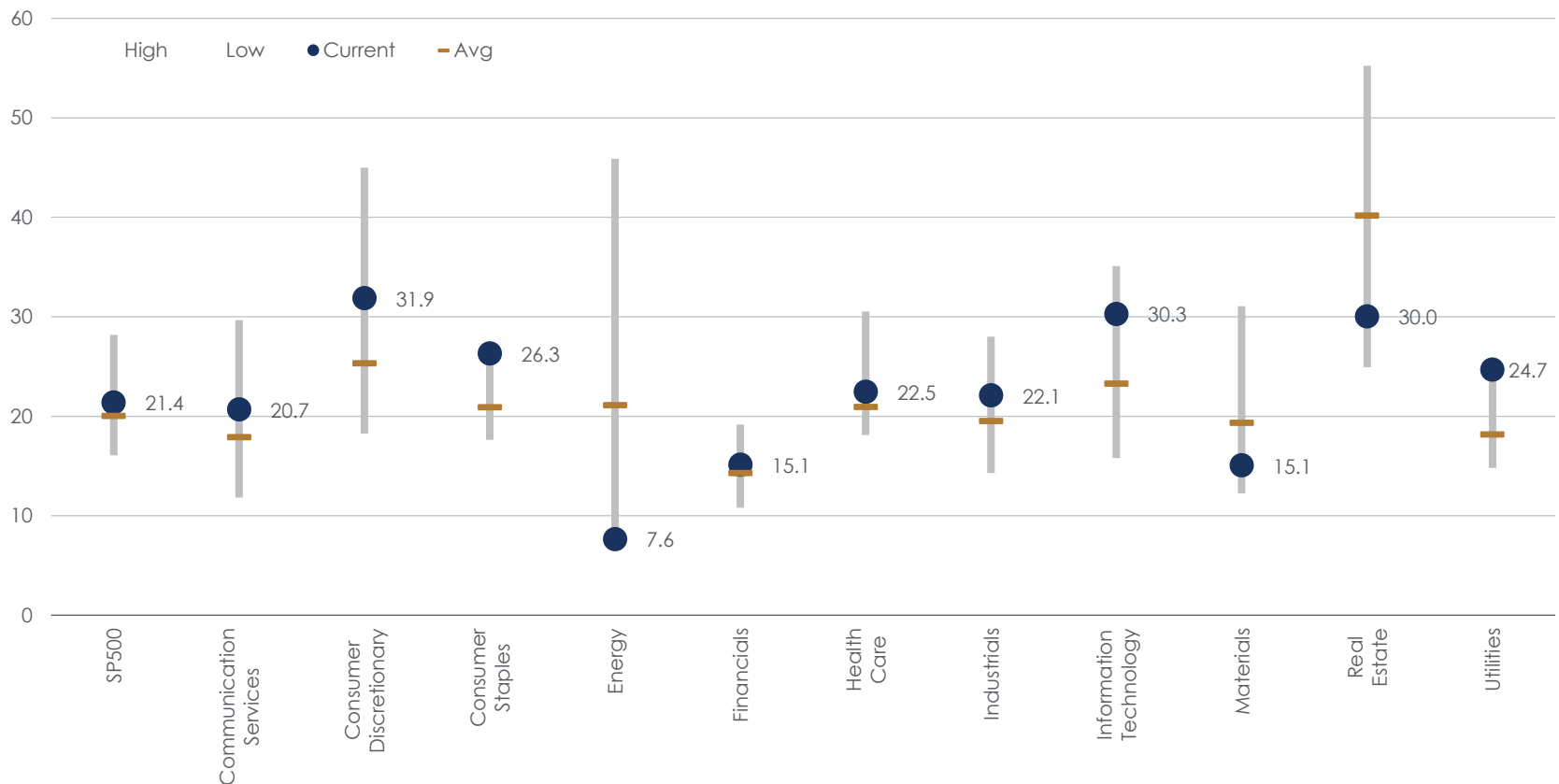


## YTD S&P 500 Returns by Sector



# 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

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# 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 MSCI 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.

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# 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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