

Market Insights

Guide to the Markets®

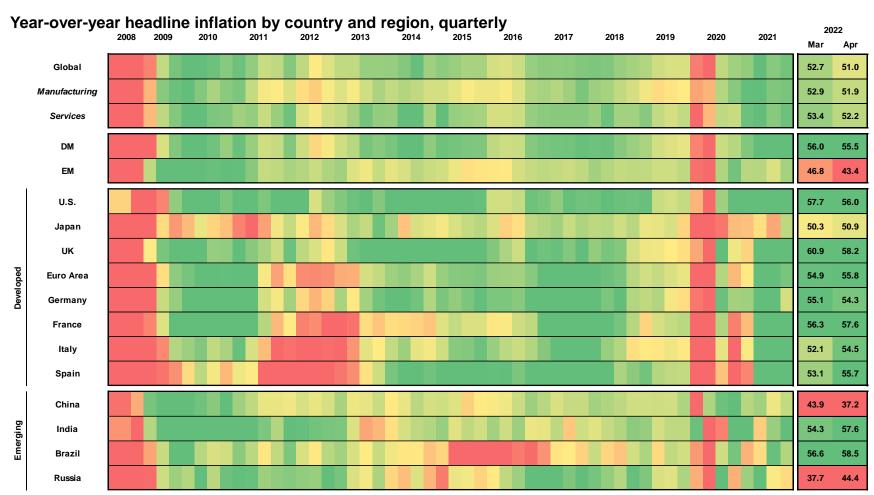
U.S. | 2Q 2022 As of May 6, 2022







Global inflation



Source: Bank of Mexico, DGBAS, Eurostat, FactSet, Federal Reserve, Goskomstat of Russia, IBGE, India Ministry of Statistics & Programme Implementation, Japan Ministry of Internal Affairs & Communications, Korean National Statistical Office, Melbourne Institute, National Bureau of Statistics China, Statistics Canada, Statistics Indonesia, UK Office for National Statistics (ONS), J.P. Morgan Asset Management. Heatmap is based on quarterly averages, with the exception of the two most recent figures, which are single month readings. Colors determined by percentiles of inflation values over the time period shown. Deep blue = lowest value, light blue = median, deep red = highest value. DM and EM represent developed markets and emerging markets, respectively. *Guide to the Markets – U.S.* Data are as of May 6, 2022.



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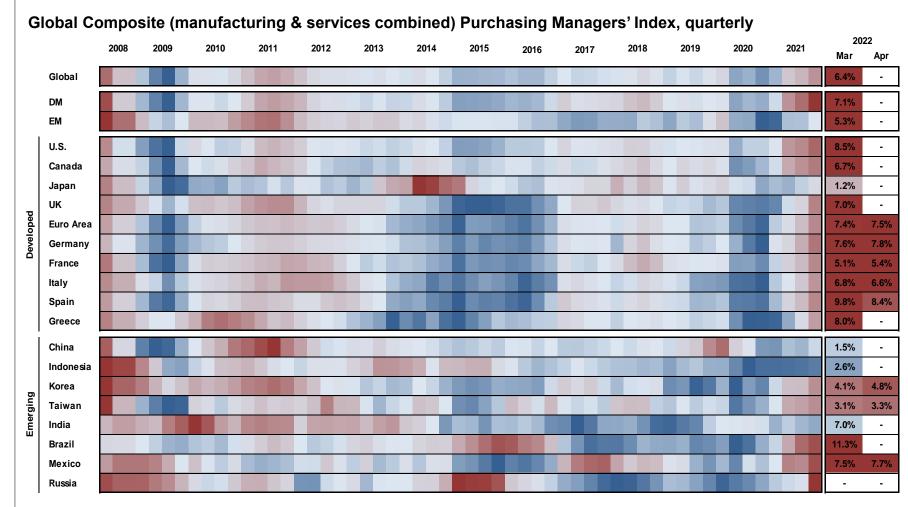
U.S.

51

International



Global economic activity momentum



Source: Markit, J.P. Morgan Asset Management.

The Composite PMI includes both manufacturing and services sub-indices. Heatmap colors are based on PMI relative to the 50 level, which indicates acceleration or deceleration of the sector, for the time period shown. Heatmap is based on quarterly averages, with the exception of the two most recent figures, which are single month readings. Data for the U.S. are back-tested and filled in from December 2007 to September 2009 due to lack of existing PMI figures. DM and EM represent developed markets and emerging markets, respectively. *Guide to the Markets – U.S.* Data are as of May 6, 2022.



3

International

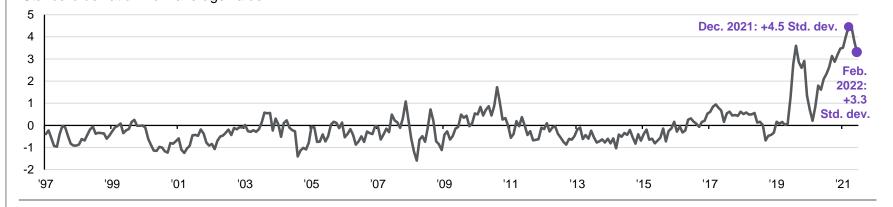


Global supply chain pressures

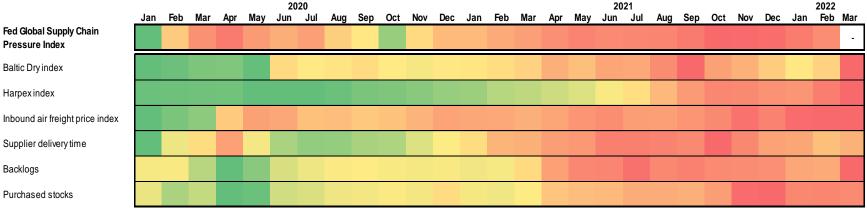
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Fed Global Supply Chain Pressure Index*

Standard deviation from average value



Fed Global Supply Chain Pressure Index subcomponents



Source: Federal Reserve Bank of New York, IHS Markit, J.P. Morgan Asset Management.

*The Federal Reserve Bank of New York bases its Global Supply Chain Pressure Index on the 25-year averages of the Baltic Dry Index (benchmark for the price of moving raw materials by sea), Harpex Index (benchmark for the rate liners pay to charter ships), BLS airfreight cost indices (benchmarks for measuring change in rates for air transpiration) and 3 PMI supply chain-related components: delivery times (the amount of time elapsed between the time an order is placed and the time it is shipped) backlogs (the volume of orders that a company has received, but not yet fulfilled) and purchased stocks (the level of inventory of materials purchased in the current month compared to the month prior) for manufacturing firms across seven interconnected economies: China, the euro area, Japan, South Korea, Taiwan, the United Kingdom and the United States. Heatmap colors determined by that month's level compared to 10-year average. Red = Very slow/constrained, Yellow = Average/moderate, and Green = Fast/least constrained. Guide to the Markets – U.S. Data are as of May 6, 2022.

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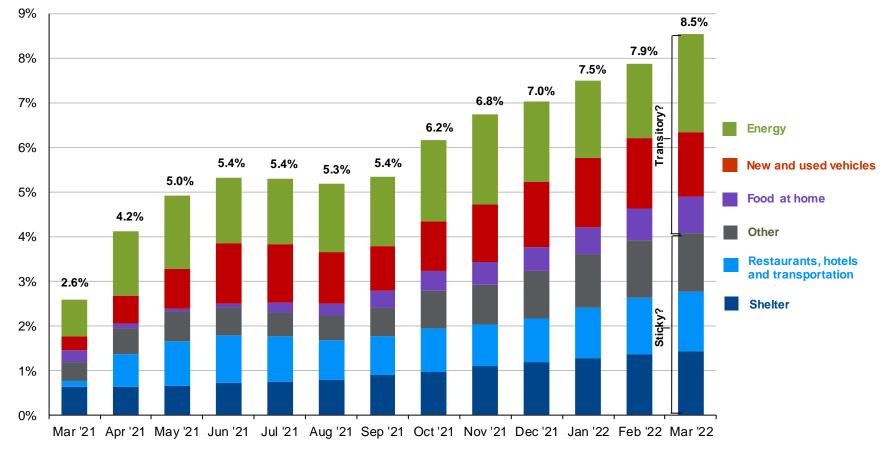


Economy

Inflation components

Contributors to headline inflation

Contribution to y/y % change in CPI, non seasonally adjusted



Source: BLS, J.P. Morgan Asset Management. Contributions mirror the BLS methodology on Table 7 of the CPI report. Values may not sum to headline CPI figures due to rounding and underlying calculations. "Shelter" includes owners equivalent rent and rent of primary residence. "Other" primarily reflects household furnishings, apparel and medical care services. *Guide to the Markets – U.S.* Data are as of May 6, 2022.



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27



Unemployment and wages

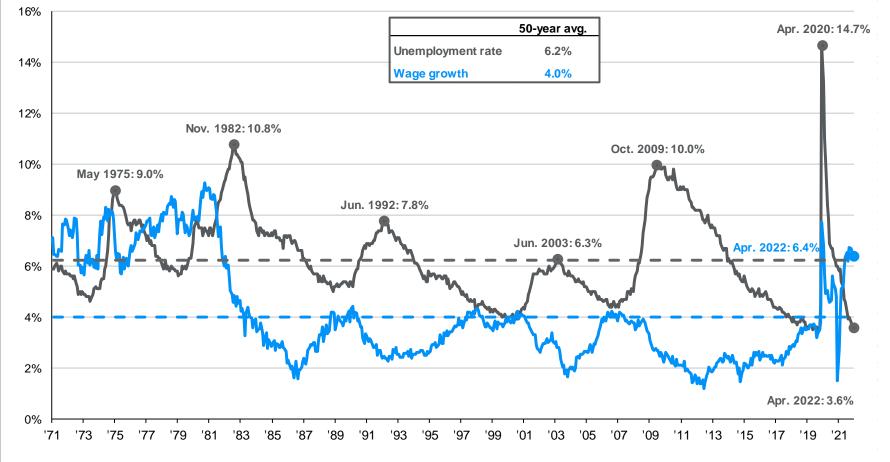
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Civilian unemployment rate and year-over-year wage growth

Private production and non-supervisory workers, seasonally adjusted, percent



Source: BLS, FactSet, J.P. Morgan Asset Management. *Guide to the Markets – U.S.* Data are as of May 6, 2022.

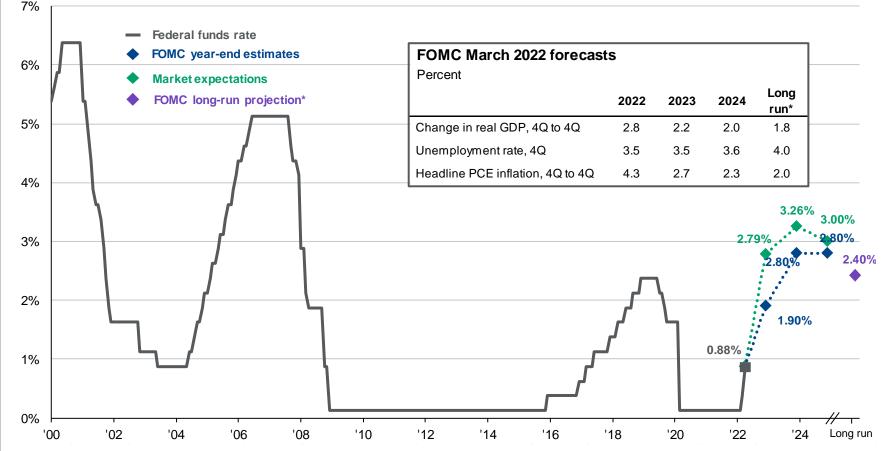
Economy



The Fed and interest rates

Federal funds rate expectations

FOMC and market expectations for the federal funds rate



Source: Bloomberg, FactSet, Federal Reserve, J.P. Morgan Asset Management.

Market expectations are based off of the respective Federal Funds Futures contracts for December expiry. *Long-run projections are the rates of growth, unemployment and inflation to which a policymaker expects the economy to converge over the next five to six years in absence of further shocks and under appropriate monetary policy. Forecasts are not a reliable indicator of future performance. Forecasts, projections and other forward-looking statements are based upon current beliefs and expectations. They are for illustrative purposes only and serve as an indication of what may occur. Given the inherent uncertainties and risks associated with forecasts, projections or other forward-looking statements, actual events, results or performance may differ materially from those reflected or contemplated. *Guide to the Markets – U.S.* Data are as of May 6, 2022.

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U.S.

32

Equity market correlations and yields

Equity market correlations and yields Hedge adjusted vield, last 12 months, 10-year correlations, guarterly 9% **Direct lending** 8% **Higher vielding** sectors 7% U.S. government U.S. non-government Hedge adjusted yield 6% EMD (LCL) International Infra. Alternatives EMD (\$) Convertibles 5% **APAC Real estate** U.S. HY **U.S. Real estate** Euro HY EM Corp. 4% **Europe Real estate** 3% Stronger correlation U.S. corps to equities 30y UST 2% MBS .S. Aggregate 10y UST TIPS Euro Corp. 5y UST 1% Germany Munis Japan 2y UST Floating rate 0% -0.6 -0.4-0.2 0.0 O.2 Correlation to S&P 500 0.4 0.6 0.8 1.0

Source: Bloomberg, FactSet, ICE, MSCI, NCREIF, J.P. Morgan Asset Management, Fixed income shown above are represented by Bloomberg indices except for EMD and ABS – U.S. Aggregate; MBS: U.S. Aggregate Securitized - MBS; U.S. corps: U.S. Corporates; Munis: Muni Bond 10-year; U.S. HY: Corporate High Yield; TIPS: Treasury Inflation-Protected Securities (TIPS); Leveraged Ioans; JPM Leveraged Loan Index; Convertibles: U.S. Convertibles: Composite; ABS; J.P. Morgan ABS Index; EMD (\$); J.P. Morgan EMBIG Diversified Index; EMD (LCL); J.P. Morgan BLM Global Diversified Index; U.S. Real Estate: Norgan GBI EM Global Diversified Index; U.S. Real Estate: Norgan BL State: Norgan EMBIG Index; U.S. Real Estate: Norgan GBI Estate: Market weighted-avg. of MSCI Global Property Fund Indices; U.K. & Cont. Europe; APAC Real Estate: MSCI Global Property Index - Asia-Pacific; Global Infra: MSCI Global Quarterly Infrastructure Asset Index (equal weighted blend; U.S. Direct Lending: Cliffwater Direct Lending Index Convertibles yield is based on the U.S. portion of the Bloomberg Global Convertibles Country yields are represented by the global aggregate for each country. Yield and return information based on bellwethers for Treasury securities. Correlations are based on quarterly return over the past 10 🔒 years through 3/31/2022, except Infra, Europe and APAC Real Estate, which are through 9/30/2021 and U.S. Real Estate and Direct Lending, which are through 12/31/2021, International fixed income sector correlations are in hedged U.S. dollar returns except EMD local index. Yields for all indices are hedged using three-month LIBOR rates between the U.S. and international LIBOR and are a 12month average. Alts yields are through 9/30/2021 except Direct Lending, which is through 12/31/2021. U.S. Real Estate yield is calculated using the MSCI Global Property Fund Index - North America. ASSET MANAGEMENT Guide to the Markets - U.S. Data are as of May 6, 2022.

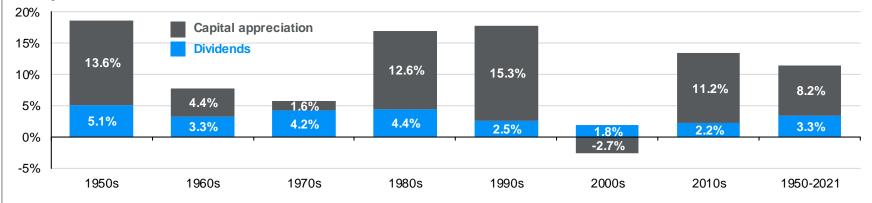
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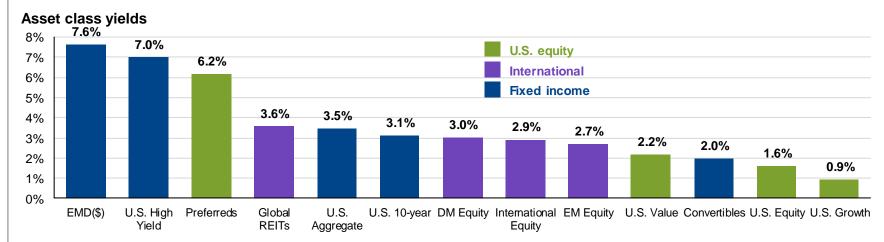
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Yield alternatives: Domestic and global

S&P 500 total return: Dividends vs. capital appreciation

Average annualized returns





Source: FactSet, Standard & Poor's, J.P. Morgan Asset Management; (Top) Ibbotson; (Bottom) BAML, Bloomberg, Federal Reserve, FTSE, J.P. Morgan, MSCI, NCREIF, Russell. Dividend vs. capital appreciation returns are through 12/31/2021. Yields are most current. Preferreds: BAML Hybrid Preferred Securities; U.S. High Yield: Bloomberg US Corporate High Yield; Global REITs: FTSE NAREIT Global REITs; U.S. Aggregate: Bloomberg US Aggregate; EMD(\$): J.P. Morgan EMBIG Diversified; Convertibles: Bloomberg U.S. Convertibles Composite; International Equity: MSCI AC World ex-U.S.; EM Equity: MSCI Emerging Markets; DM Equity: MSCI EAFE; U.S. Equity: S&P 500; U.S. Growth: Russell 1000 Growth; U.S. Value: Russell 1000 Value; U.S. 10-year: Tullett Prebon. Positive yield does not imply positive return. *Guide to the Markets – U.S.* Data are as of May 6, 2022.

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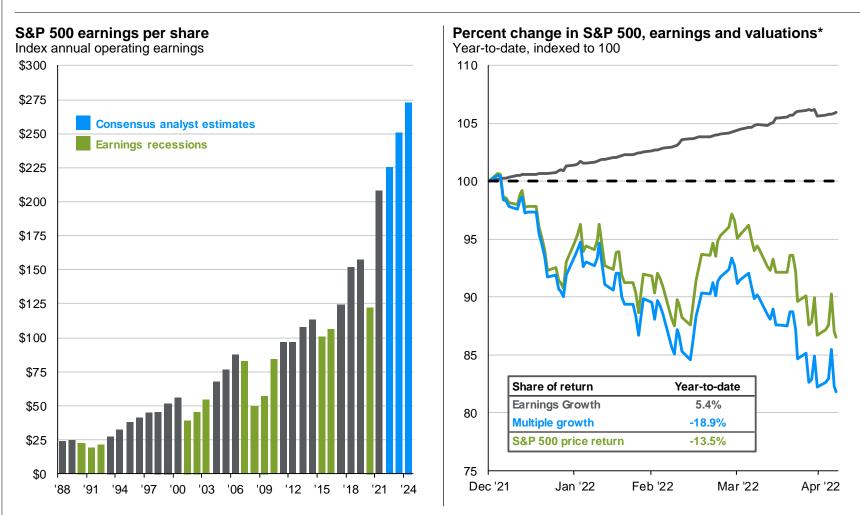
U.S.

66

Investing Principles



Corporate profits and sources of total return



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U.S.

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7

Historical EPS levels are based on annual operating earnings per share. Earnings estimates are based on estimates from Standard & Poor's and FactSet Market Aggregates. *Earnings and multiple growth are both percent changes over the next 12 months. Past performance is not indicative of future returns.

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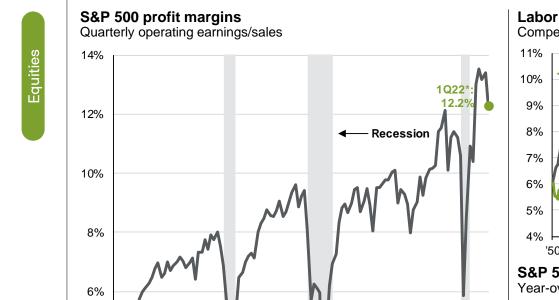
Source: Compustat, FactSet, Standard & Poor's, J.P. Morgan Asset Management.



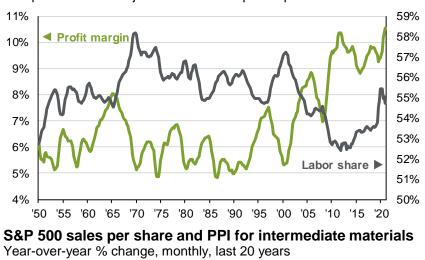
Profit margins and input costs

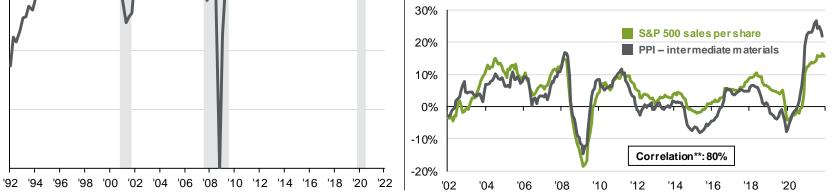
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9



Labor share of income and profit margins* Compensation and adjusted after-tax corporate profits as % of GDP





Source: BEA, Compustat, FactSet, Standard & Poor's, J.P. Morgan Asset Management. Past performance is not indicative of future returns. (Left) *1Q22 operating margin is an estimate from Standard & poor's based on 85.2% of the S&P 500's market cap having reported results. (Right)*Labor share of income and profit margins are shown on a 4-quarter moving average basis. Compensation and adjusted after-tax corporate profits are shown as a percentage of real GDP, SAAR. **Correlation is calculated using monthly y/y percent changes over the last 20 years between S&P 500 sales per share and PPI for intermediate materials. *Guide to the Markets – U.S.* Data are as of May 6, 2022.



11

4%

2%

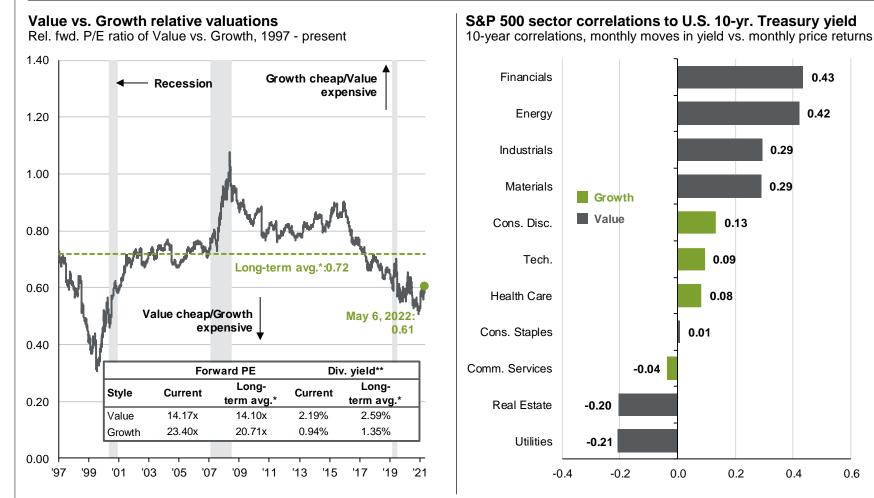
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Equities

Value vs. Growth

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Source: FactSet, FTSE Russell, NBER, J.P. Morgan Asset Management.

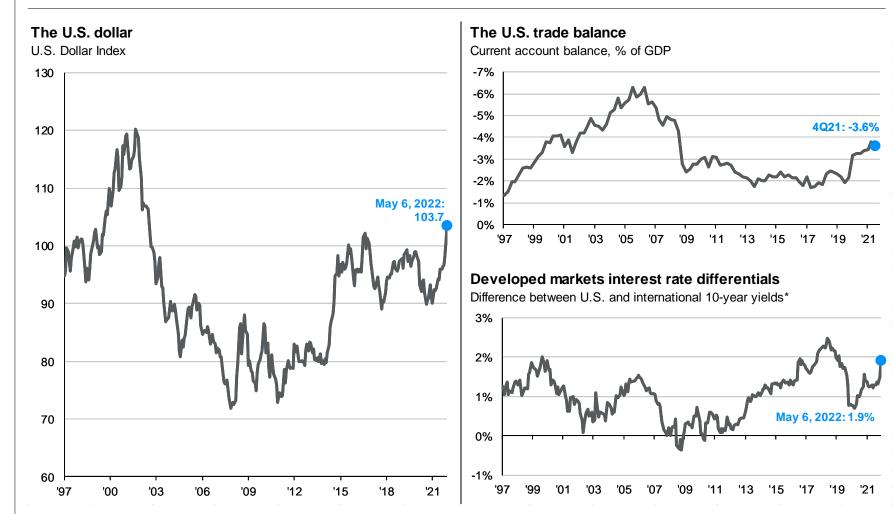
(Left) Growth is represented by the Russell 1000 Growth Index and Value is represented by the Russell 1000 Value Index. *Long-term averages are calculated monthly since December 1997. **Dividend yield is calculated as the next 12-month consensus dividend divided by most recent price. (Right) Correlations are calculated on a monthly basis over the last 120 months. *Guide to the Markets – U.S. Data are as of* May 6, 2022.

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Dollar drivers



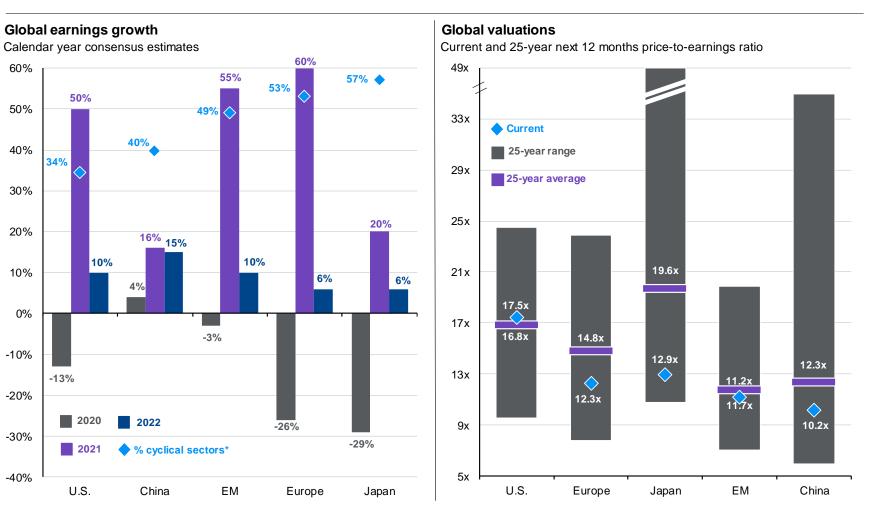


Source: J.P. Morgan Asset Management; (Left) FactSet, ICE; (Top right) Bureau of Economic Analysis, FactSet; (Bottom right) Tullett Prebon. Currencies in the DXY Index are: British pound, Canadian dollar, euro, Japanese yen, Swedish krona and Swiss franc. *Interest rate differential is the difference between the 10-year U.S. Treasury yield and a basket of the 10-year yields of each major trading partner (Australia, Canada, Europe, Japan, Sweden, Switzerland and UK). Weights on the basket are calculated using the 10-year average of total government bonds outstanding in each region. Europe is defined as the 19 countries in the euro area. *Guide to the Markets – U.S.* Data are as of May 6, 2022.



Economy





Source: FactSet, MSCI, Standard & Poor's, Thomson Reuters, J.P. Morgan Asset Management.

*Cyclical sectors include consumer discretionary, financials, industrials, energy and materials. The Internet and direct marketing subsector has been removed from the cyclicals calculation. In our judgement, companies in this space do not yet fit into the cyclical category, as they are still in a transitional growth phase and are not being directly impacted by the business cycle. Valuation and earnings charts use MSCI indices for all regions/countries, except for the U.S., which is the S&P 500. All indices use IBES aggregate earnings estimates, which may differ from earnings estimates used elsewhere in the book. MSCI Europe includes the eurozone as well as countries not in the currency bloc, such as Norway, Sweden, Switzerland and the UK (which collectively make up 44% of the overall index). Past performance is not a reliable indicator of current and future results. Guide to the Markets - U.S. Data are as of May 6, 2022.

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U.S.

48



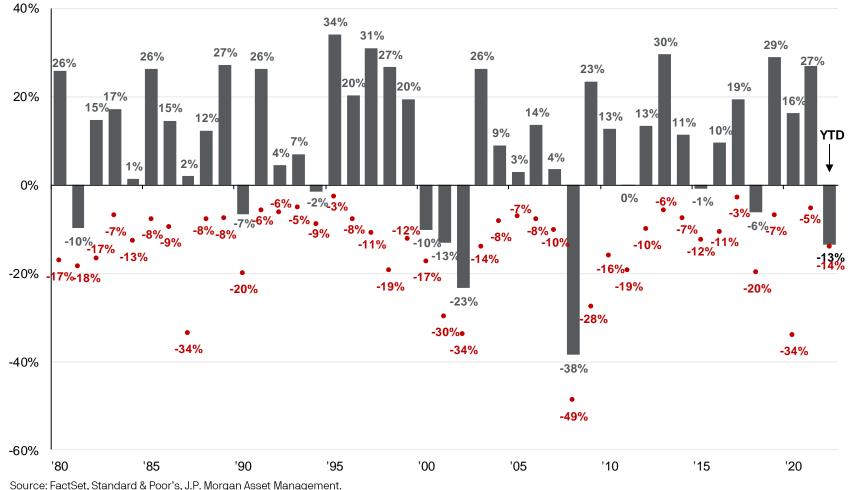
Equities

Annual returns and intra-year declines

GTM U.S. 16

S&P intra-year declines vs. calendar year returns

Despite average intra-year drops of 14.0%, annual returns were positive in 32 of 42 years

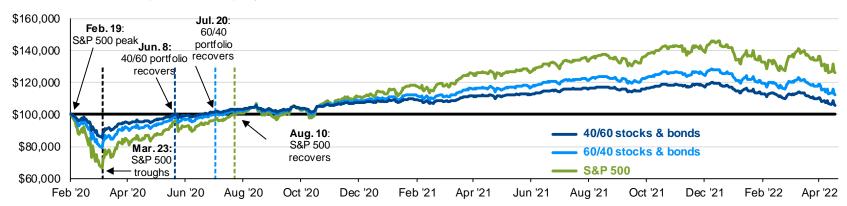


Returns are based on price index only and do not include dividends. Intra-year drops refers to the largest market drops from a peak to a trough during the year. For illustrative purposes only. Returns shown are calendar year returns from 1980 to 2021, over which time period the average annual return was 9.4%. *Guide to the Markets – U.S.* Data are as of May 6, 2022.



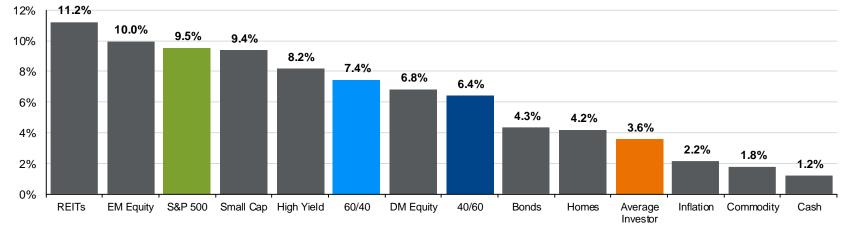
Guide to the Markets –

Diversification and the average investor



Portfolio returns: Equities vs. equity and fixed income blend

20-year annualized returns by asset class (2002 - 2021)



Source: Bloomberg, FactSet, Standard & Poor's, J.P. Morgan Asset Management; (Bottom) Dalbar Inc, MSCI, NAREIT, Russell.

Indices used are as follows: REITs: NAREIT Equity REIT Index, Small Cap: Russell 2000, EM Equity: MSCI EM, DM Equity: MSCI EAFE, Commodity: Bloomberg Commodity Index, High Yield: Bloomberg Global HY Index, Bonds: Bloomberg U.S. Aggregate Index, Homes: median sale price of existing single-family homes, Cash: Bloomberg 1-3m Treasury, Inflation: CPI. 60/40: A balanced portfolio with 60% invested in S&P 500 Index and 40% invested in high-quality U.S. fixed income, represented by the Bloomberg U.S. Aggregate Index. The portfolio is rebalanced annually. Average asset allocation investor return is based on an analysis by Dalbar Inc., which utilizes the net of aggregate mutual fund sales, redemptions and exchanges each month as a measure of investor behavior. *Guide to the Markets – U.S.* Data are as of May 6, 2022.



U.S.

63

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Investing Principles



Asset class returns

| | | | | | | | | | | | | | | | | 2007 - | 2021 |
|-------------|--------------|---------------|---------------|-----------------|---------------|-----------------|--------------|-----------------|---------------|-----------------|-----------------|--------------|-----------------|--------------|---------------|---------------|--------------|
| 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | YTD | Ann. | Vol. |
| EM | Fixed | EM | REITS | REITS | REITS | Small | REITS | REITS | Small | EM | Cash | Large | Small | REITS | Comdty. | Large | REITS |
| Equity | Income | Equity | 27.00/ | 0.20/ | 40 70/ | Cap | 29.00/ | 2.8% | Cap | Equity | 4 00/ | Cap | Cap | 44 20/ | 24 69/ | Cap | 22.20/ |
| 39.8% | 5.2% | 79.0% | 27.9% | 8.3% | 19.7% | 38.8% | 28.0% | | 21.3% | 37.8% | 1.8% | 31.5% | 20.0% | 41.3% | 31.6% | 10.6% | 23.2% |
| Comdty. | Cash | High Yield | Small Cap | Fixed Income | High Yield | Large Cap | Large Cap | Large Cap | High Yield | DM Equity | Fixed Income | REITS | EM Equity | Large Cap | Cash | Sm all Cap | EM Equity |
| 16.2% | 1.8% | 59.4% | 26.9% | 7.8% | 19.6% | 32.4% | 13.7% | 1.4% | 14.3% | 25.6% | 0.0% | 28.7% | 18.7% | 28.7% | 0.1% | 8.7% | 22.9% |
| DM | Asset | DM | EM | High | EM | DM | Fixed | Fixed | Large | Large | | Small | Large | | Asset | | Small |
| Equity | Allec. | Equity | Equity | Yield | Equity | Equity | Income | Income | Сар | Сар | REITS | Сар | Сар | Comdty. | Alloc. | REITS | Сар |
| 11.6% | 25.4% | 32.5% | 19.2% | 3.1% | 18.6% | 23.3% | 6.0% | 0.5% | 12.0% | 21.8% | -4.0% | 25.5% | 18.4% | 27.1% | -10.2% | 7.5% | 22.5% |
| Asset | High | REITs | Comdty. | Large | DM | Asset | Asset | Cash | Comdty. | Small | High | DM | Asset | Small | Fixed | High | Comdty. |
| Allec. | Yield | | | Сар | Equity | All e c. | Allec. | | | Сар | Yield | Equity | Allec. | Сар | Income | Yield | |
| 7.1% | -26.9% | 28.0% | 16.8% | 2.1% | 17.9% | 14.9% | 5.2% | 0.0% | 11.8% | 14.6% | -4.1% | 22.7% | 10.6% | 14.8% | -10.5% | 6.6% | 19.1% |
| Fixed | Small | Small | Large | Cash | Small | High | Small | DM | EM | Asset | Large | Asset | DM | Asset | High | Asset | DM |
| Income | Cap | Cap | Сар | 0.40/ | Cap | Yield | Cap | Equity | Equity | Allec. | Сар | Allec. | Equity | Allec. | Yield | Alloc. | Equity |
| 7.0% | -33.8% | 27.2% | 15.1% | 0.1% | 16.3% | 7.3% | 4.9% | -0.4% | 11.6% | 14.6% | -4.4% | 19.5% | 8.3% | 13.5% | -11.2% | 5.7% | 18.9% |
| Large | Comdty. | Large Cap | High Yield | Asset Aljec. | Large Cap | REITS | Cash | Asset Allec. | RETs | /High /Yield | Asset Allec. | EM Equity | Fixed Income | DM Equity | REITS | EM Equity | Large Cap |
| Cap 5.5% | -35.6% | 26.5% | 14.8% | -0.7% | 16.0% | 2.9% | 0.0% | -2.0% | 8.6% | 10.4% | -5.8% | 18.9% | 7.5% | 11.8% | -12.2% | 4.8% | Сар 16.9% |
| | Large | Asset | Asset | Small | Asset | | High | High | Asset | | Small | High | High | High | Large | DM | High |
| Cash | Cap | Allec. | Allec. | Сар | Allec. | Cash | Yield | Yield | Allec. | REITS | Сар | Yield | Yield | Yield | Cap | Equity | Yield |
| 4.8% | -37.0% | 25.0% | 13.3% | -4.2% | 12.2% | 0.0% | 0.0% | -2.7% | 8.3% | 8.7% | -11.0% | 12.6% | 7.0% | 1.0% | -13.1% | 4.1% | 12.2% |
| High | REITs | Comdty. | DM | DM | Fixed | Fixed | EM | Small | Fixed | Fixed | Comdty. | Fixed | Cash | Cash | DM | Fixed | Asset |
| Yield | REIS | contaty. | Equity | Equity | Income | Income | Equity | Сар | Income | Income | Contaty. | Income | Cash | Casii | Equity | Income | Alloc. |
| 3.2% | -37.7% | 18.9% | 8.2% | -11.7% | 4.2% | -2.0% | -1.8% | -4.4% | 2.6% | 3.5% | -11.2% | 8.7% | 0.5% | 0.0% | -14.3% | 4.1% | 11.7% |
| Small | DM | Fixed | Fixed | Comdty. | Cash | EM | DM | EM | DM | Comdty. | DM | Comdty. | Comdty. | Fixed | EM | Cash | Fixed |
| Сар | Equity | Income | Income | | | Equity | Equity | Equity | Equity | | Equity | | | Income | Equity | | Income |
| -1.6% | -43.1% | 5.9% | 6.5% | -13.3% | 0.1% | -2.3% | -4.5% | -14.6% | 1.5% | 1.7% | -13.4% | 7.7% | -3.1% | -1.5% | -15.7% | 0.8% | 3.3% |
| REITS | EM Equity | Cash | Cash | EM Equity | Comdty. | Comdty. | Comdty. | Comdty. | Cash | Cash | EM Equity | Cash | REITS | EM Equity | Sm all Cap | Comdty. | Cash |
| -15.7% | -53.2% | 0.1% | 0.1% | -18.2% | -1.1% | -9.5% | -17.0% | -24.7% | 0.3% | 0.8% | -14.2% | 2.2% | -5.1% | -2.2% | -17.8% | -2.6% | 0.7% |
| - 13.1 /0 | | 0.170 | 0.170 | 10.270 | 11170 | 3.370 | 11.070 | -2-11-/0 | 0.070 | 0.070 | | 2.270 | 0.170 | 2.270 | 11.070 | 2.070 | 0.1 /0 |

Source: Bloomberg, FactSet, MSCI, NAREIT, Russell, Standard & Poor's, J.P. Morgan Asset Management.

Large cap: S&P 500, Small cap: Russell 2000, EM Equity: MSCI EME, DM Equity: MSCI EAFE, Comdty: Bloomberg Commodity Index, High Yield: Bloomberg Global HY Index, Fixed Income: Bloomberg US Aggregate, REITs: NAREIT Equity REIT Index, Cash: Bloomberg 1-3m Treasury. The "Asset Allocation" portfolio assumes the following weights: 25% in the S&P 500, 10% in the Russell 2000, 15% in the MSCI EAFE, 5% in the MSCI EME, 25% in the Bloomberg US Aggregate, 5% in the Bloomberg 1-3m Treasury, 5% in the Bloomberg Global High Yield Index, 5% in the Bloomberg Commodity Index and 5% in the NAREIT Equity REIT Index. Balanced portfolio assumes annual rebalancing. Annualized (Ann.) return and volatility (Vol.) represents period from 12/31/2006 to 12/31/2021. Please see disclosure page at end for index definitions. All data represents total return for stated period. The "Asset Allocation" portfolio is for illustrative purposes only. Past performance is not indicative of future returns. *Guide to the Markets – U.S.* Data are as of May 6, 2022.



U.S.

61

GTM

Investing Principles



J.P. Morgan Asset Management – Index definitions

All indexes are unmanaged and an individual cannot invest directly in an index. Index returns do not include fees or expenses.

Equities:

The Dow Jones Industrial Average is a price-weighted average of 30 actively traded blue-chip U.S. stocks.

The **MSCI ACWI (All Country World Index)** is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets.

The MSCI EAFE Index(Europe, Australasia, Far East) is a free float-adjusted market capitalization index that is designed to measure the equity market performance of developed markets, excluding the US & Canada.

The **MSCI Emerging Markets Index** is a free float-adjusted market capitalization index that is designed to measure equity market performance in the global emerging markets.

The **MSCI Europe Index** is a free float-adjusted market capitalization index that is designed to measure developed market equity performance in Europe.

The **MSCI Pacific Index** is a free float-adjusted market capitalization index that is designed to measure equity market performance in the Pacific region.

The Russell 1000 Index® measures the performance of the 1,000 largest companies in the Russell 3000.

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

The Russell 1000 Value Index® measures the performance of those Russell 1000 companies with lower priceto-book ratios and lower forecasted growth values.

The $Russell\ 2000\ Index \ensuremath{\mathbb{B}}$ measures the performance of the 2,000 smallest companies in the Russell 3000 Index.

The Russell 2000 Growth Index® measures the performance of those Russell 2000 companies with higher price-to-book ratios and higher forecasted growth values.

The Russell 2000 Value Index® measures the performance of those Russell 2000 companies with lower priceto-book ratios and lower forecasted growth values.

The **Russell 3000 Index**® measures the performance of the 3,000 largest U.S. companies based on total market capitalization.

The Russell Midcap Index® measures the performance of the 800 smallest companies in the Russell 1000 Index.

The **Russell Midcap Growth Index** [®] measures the performance of those Russell Midcap companies with higher price-to-book ratios and higher forecasted growth values. The stocks are also members of the Russell 1000 Growth index.

The **Russell Midcap Value Index** ® measures the performance of those Russell Midcap companies with lower price-to-book ratios and lower forecasted growth values. The stocks are also members of the Russell 1000 Value index.

The **S&P 500 Index** is widely regarded as the best single gauge of the U.S. equities market. The index includes a representative sample of 500 leading companies in leading industries of the U.S. economy. The **S&P 500 Index** focuses on the large-cap segment of the market; however, since it includes a significant portion of the total value of the market, it also represents the market.

Fixed income:

The **Bloomberg 1-3 Month U.S. Treasury Bill Index** includes all publicly issued zero-coupon US Treasury Bills that have a remaining maturity of less than 3 months and more than 1 month, are rated investment grade, and have \$250 million or more of outstanding face value. In addition, the securities must be denominated in U.S. dollars and must be fixed rate and non convertible.

The **Bloomberg Global High Yield Index** is a multi-currency flagship measure of the global high yield debt market. The index represents the union of the US High Yield, the Pan-European High Yield, and Emerging Markets (EM) Hard Currency High Yield Indices. The high yield and emerging markets sub-components are mutually exclusive. Until January 1, 2011, the index also included CMBS high yield securities.

The **Bloomberg Municipal Index**: consists of a broad selection of investment-grade general obligation and revenue bonds of maturities ranging from one year to 30 years. It is an unmanaged index representative of the tax-exempt bond market.

The **Bloomberg US Dollar Floating Rate Note (FRN) Index** provides a measure of the U.S. dollar denominated floating rate note market.

The **Bloomberg US Corporate Investment Grade Index** is an unmanaged index consisting of publicly issued US Corporate and specified foreign debentures and secured notes that are rated investment grade (Baa3/BBB or higher) by at least two ratings agencies, have at least one year to final maturity and have at least \$250 million par amount outstanding. To qualify, bonds must be SEC-registered.

The **Bloomberg US High Yield Index** covers the universe of fixed rate, non-investment grade debt. Eurobonds and debt issues from countries designated as emerging markets (sovereign rating of Baa1/BBB+/BBB+ and below using the middle of Moody's, S&P, and Fitch) are excluded, but Canadian and global bonds (SEC registered) of issuers in non-EMG countries are included.

The **Bloomberg US Mortgage Backed Securities Index** is an unmanaged index that measures the performance of investment grade fixed-rate mortgage backed pass-through securities of GNMA, FNMA and FHLMC.

The Bloomberg US TIPS Index consists of Inflation-Protection securities issued by the U.S. Treasury.

The J.P. Morgan Emerging Market Bond Global Index(EMBI)includes U.S. dollar denominated Brady bonds, Eurobonds, traded loans and local market debt instruments issued by sovereign and quasi-sovereign entities.

The J.P. Morgan Domestic High Yield Index is designed to mirror the investable universe of the U.S. dollar domestic high yield corporate debt market.

The J.P. Morgan Corporate Emerging Markets Bond Index Broad Diversified (CEMBI Broad Diversified) is an expansion of the J.P. Morgan Corporate Emerging Markets Bond Index (CEMBI). The CEMBI is a market capitalization weighted index consisting of U.S. dollar denominated emerging market corporate bonds.

The J.P. Morgan Emerging Markets Bond Index Global Diversified (EMBI Global Diversified) tracks total returns for U.S. dollar-denominated debt instruments issued by emerging market sovereign and quasi-sovereign entities: Brady bonds, loans, Eurobonds. The index limits the exposure of some of the larger countries.

The J.P. Morgan GBI EM Global Diversified tracks the performance of local currency debt issued by emerging market governments, whose debt is accessible by most of the international investor base.

The U.S. Treasury Index is a component of the U.S. Government index.





J.P. Morgan Asset Management – Definitions



Other asset classes:

The Alerian MLP Index is a composite of the 50 most prominent energy Master Limited Partnerships (MLPs) that provides investors with an unbiased, comprehensive benchmark for the asset class.

The **Bloomberg Commodity Index** and related sub-indices are composed of futures contracts on physical commodities and represents twenty two separate commodities traded on U.S. exchanges, with the exception of aluminum, nickel, and zinc

The Cambridge Associates U.S. Global Buyout and Growth Index® is based on data compiled from 1,768 global (U.S. & ex –U.S.) buyout and growth equity funds, including fully liquidated partnerships, formed between 1986 and 2013.

The **CS/Tremont Hedge Fund Index** is compiled by Credit Suisse Tremont Index, LLC. It is an asset-weighted hedge fund index and includes only funds, as opposed to separate accounts. The Index uses the Credit Suisse/Tremont database, which tracks over 4500 funds, and consists only of funds with a minimum of US\$50 million under management, a 12-month track record, and audited financial statements. It is calculated and rebalanced on a monthly basis, and shown net of all performance fees and expenses. It is the exclusive property of Credit Suisse Tremont Index, LLC.

The HFRI Monthly Indices (HFRI) are equally weighted performance indexes, utilized by numerous hedge fund managers as a benchmark for their own hedge funds. The HFRI are broken down into 4 main strategies, each with multiple sub strategies. All single-manager HFRI Index constituents are included in the HFRI Fund Weighted Composite, which accounts for over 2200 funds listed on the internal HFR Database.

The NAREIT EQUITY REIT Index is designed to provide the most comprehensive assessment of overall industry performance, and includes all tax-qualified real estate investment trusts (REITs) that are listed on the NYSE, the American Stock Exchange or the NASDAQ National Market List.

The NFI-ODCE, short for NCREIF Fund Index -Open End Diversified Core Equity, is an index of investment returns reporting on both a historical and current basis the results of 33 open-end commingled funds pursuing a core investment strategy, some of which have performance histories dating back to the 1970s. The NFI-ODCE Index is capitalization-weighted and is reported gross of fees. Measurement is time-weighted.

Definitions:

Investing in **alternative assets** involves higher risks than traditional investments and is suitable only for sophisticated investors. Alternative investments involve greater risks than traditional investments and should not be deemed a complete investment program. They are not tax efficient and an investor should consult with his/her tax advisor prior to investing. Alternative investments have higher fees than traditional investments and they may also be highly leveraged and engage in speculative investment techniques, which can magnify the potential for investment loss or gain. The value of the investment may fall as well as rise and investors may get back less than they invested.

Bonds are subject to interest rate risks. Bond prices generally fall when interest rates rise.

Investments in **commodities** may have greater volatility than investments in traditional securities, particularly if the instruments involve leverage. The value of commodity-linked derivative instruments may be affected by changes in overall market movements, commodity index volatility, changes in interest rates, or factors affecting a particular industry or commodity, such as drought, floods, weather, livestock disease, embargoes, tariffs and international economic, political and regulatory developments. Use of leveraged commodity-linked derivatives creates an opportunity for increased return but, at the same time, creates the possibility for greater loss.

Derivatives may be riskier than other types of investments because they may be more sensitive to changes in economic or market conditions than other types of investments and could result in losses that significantly exceed the original investment. The use of derivatives may not be successful, resulting in investment losses, and the cost of such strategies may reduce investment returns.

Distressed Restructuring Strategies employ an investment process focused on corporate fixed income instruments, primarily on corporate credit instruments of companies trading at significant discounts to their value at issuance or obliged (par value) at maturity as a result of either formal bankruptcy proceeding or financial market perception of near term proceedings. Investments in **emerging markets** can be more volatile. The normal risks of investing in foreign countries are heightened when investing in emerging markets. In addition, the small size of securities markets and the low trading volume may lead to a lack of liquidity, which leads to increased volatility. Also, emerging markets may not provide adequate legal protection for private or foreign investment or private property.

The price of **equity** securities may rise, or fall because of changes in the broad market or changes in a company's financial condition, sometimes rapidly or unpredictably. These price movements may result from factors affecting individual companies, sectors or industries, or the securities market as a whole, such as changes in economic or political conditions. Equity securities are subject to "stock market risk" meaning that stock prices in general may decline over short or extended periods of time.

Equity market neutral strategies employ sophisticated quantitative techniques of analyzing price data to ascertain information about future price movement and relationships between securities, select securities for purchase and sale. Equity Market Neutral Strategies typically maintain characteristic net equity market exposure no greater than 10% long or short.

Global macro strategies trade a broad range of strategies in which the investment process is predicated on movements in underlying economic variables and the impact these have on equity, fixed income, hard currency and commodity markets.

International investing involves a greater degree of risk and increased volatility. Changes in currency exchange rates and differences in accounting and taxation policies outside the U.S. can raise or lower returns. Some overseas markets may not be as politically and economically stable as the United States and other nations.

There is no guarantee that the use of **long and short positions** will succeed in limiting an investor's exposure to domestic stock market movements, capitalization, sector swings or other risk factors. Using long and short selling strategies may have higher portfolio turnover rates. Short selling involves certain risks, including additional costs associated with covering short positions and a possibility of unlimited loss on certain short sale positions.

Merger arbitrage strategies which employ an investment process primarily focused on opportunities in equity and equity related instruments of companies which are currently engaged in a corporate transaction.

Mid-capitalization investing typically carries more risk than investing in well-established "blue-chip" companies. Historically, mid-cap companies' stock has experienced a greater degree of market volatility than the average stock.

Price to forward earnings is a measure of the price-to-earnings ratio (P/E) using forecasted earnings. Price to book value compares a stock's market value to its book value. Price to cash flow is a measure of the market's expectations of a firm's future financial health. Price to dividends is the ratio of the price of a share on a stock exchange to the dividends per share paid in the previous year, used as a measure of a company's potential as an investment.

Real estate investments may be subject to a higher degree of market risk because of concentration in a specific industry, sector or geographical sector. Real estate investments may be subject to risks including, but not limited to, declines in the value of real estate, risks related to general and economic conditions, changes in the value of the underlying property owned by the trust and defaults by borrower.

Relative Value Strategies maintain positions in which the investment thesis is predicated on realization of a valuation discrepancy in the relationship between multiple securities.

Small-capitalization investing typically carries more risk than investing in well-established "blue-chip" companies since smaller companies generally have a higher risk of failure. Historically, smaller companies' stock has experienced a greater degree of market volatility than the average stock.





J.P. Morgan Asset Management – Risks & disclosures

71

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Unless otherwise stated, all data are as of May 6, 2022 or most recently available.

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