Principal Global Investors

Morley Capital Management

Economic and market review

Principal Global Asset Allocation Viewpoints

As of March 31, 2022





Key themes for Q2 2022

- Global economic activity to be challenged, but recession unlikely in 2022.

 Soaring commodity prices are inflicting a worrying stagflationary shock, with Europe appearing as the most exposed. The strong labor market, excess savings cushions and solid balance sheets should limit the downside impact on activity.
- Price pressures are building and broadening, U.S. inflation peak still several months away.

 Inflation pressures are spreading to stickier items, raising concerns about a potential wage/price spiral and risking a deanchoring in inflation expectations. The Federal Reserve (Fed) has rarely waited so long before hiking rates.
- The Fed will tighten policy aggressively, rates will move into restrictive territory in 2023.

 Policy rates are set to rise to above 2% by year-end, while balance sheet reduction will be equivalent to another hike this year.

 While the economy can digest these hikes, next year will be more challenging. Rising recession risk will put downward pressure on the long end of the yield curve.
- The yield curve bear flattened significantly leading to the worst fixed income returns in decades. Negative total returns portend outflows from retail investors in bond funds.



Bonds recorded their worst quarter in 41 years The S&P 500 Index returned -4.6% for Q1 2022, but still outperformed the Bloomberg U.S. Agg. Index by 1.33%

	3-months	YTD/1-year	3-year	5-year	10-year
Fixed Income					
ICE BofA U.S. Treasury Bill 3-month Index	0.0%	0.1%	0.8%	1.1%	0.6%
Bloomberg Aggregate Bond Index	-5.9%	-4.2%	1.7%	2.1%	2.2%
Bloomberg U.S. Corp High Yld 2% Issuer Capped Index	-4.8%	-0.7%	4.6%	4.7%	5.7%
Bloomberg Long-Term Govt/Credit Index	-6.3%	-3.9%	2.1%	2.4%	2.5%
U.S. Equities					
Russell 1000 Value Index	-0.7%	11.7%	13.0%	10.3%	11.7%
S&P 500 Index	-4.6%	15.6%	18.9%	16.0%	14.6%
Russell 1000 Growth Index	-9.0%	15.0%	23.6%	20.9%	17.0%
Russell Midcap Index	-5.7%	6.9%	14.9%	12.6%	12.9%
Russell 2000 Index	-7.5%	-5.8%	11.7%	9.7%	11.0%
Non-U.S. Equities					
MSCI EAFE NTR Index	-5.9%	1.2%	7.8%	6.7%	6.3%
MSCI ACWI ex-USA Index	-5.4%	-1.5%	7.5%	6.8%	5.6%
MSCI Emerging Markets Index	-7.0%	-11.4%	4.9%	6.0%	3.4%
Other					
MSCI U.S. REIT Index	-4.3%	25.0%	9.9%	8.4%	8.4%
S&P GSCI® Index	33.1%	64.6%	13.4%	10.0%	-3.3%
U.S. Dollar Index	1.6%	3.4%	-0.2%	-0.5%	2.0%

As of 3/31/2022

Source: FactSet. Returns are annualized. Past performance does not guarantee future results. Index performance information reflects no deduction for fees, expenses, or taxes. Indices are unmanaged and individuals cannot invest directly in an index. See Important Information for index descriptions.

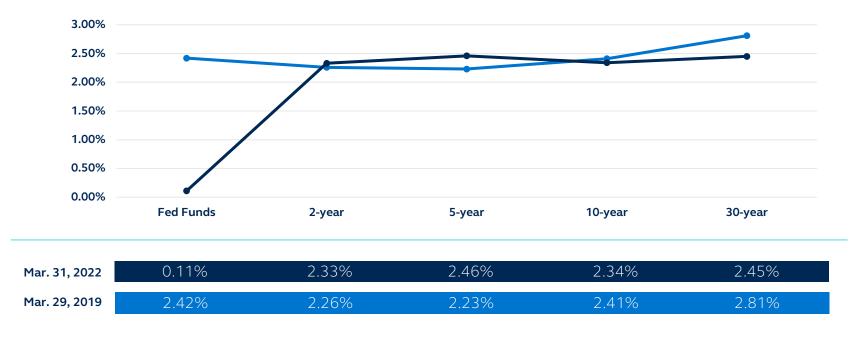


ECONOMIC AND MARKET REVIEW

The history of interest rates

How have interest rates changed in recent years?

	Mar. 31, 2019	Mar. 31, 2020	Mar. 31, 2021	Mar. 31, 2022
2-year	2.26	0.25	0.16	2.33
5-year	2.23	0.38	0.94	2.46
10-year	2.41	0.67	1.74	2.34
2-to 10-year spread	0.15	0.42	1.58	0.00
30-year	2.81	1.32	2.41	2.45



Source: FactSet. Past performance does not guarantee future results.



ASSET CLASS RETURNS AS OF MARCH 31, 2022

Deat	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	YTD
Best	Government Treasury	Emerging Markets	Small Cap	Real Estate	Real Estate	Small Cap	Emerging Markets	Cash	Large Cap	Small Cap	Real Estate	Commodities
\uparrow	29.93%	18.23%	38.82%	31.78%	4.23%	21.31%	37.28%	1.86%	31.49%	19.96%	46.18%	25.55%
	Real Estate	Mid Cap	Mid Cap	Government Treasury	Large Cap	Mid Cap	Intl Stocks	Intermediate Bond	Mid Cap	Large Cap	Large Cap	Cash
	9.24%	17.88%	33.50%	25.07%	1.38%	20.74%	25.03%	0.01%	26.20%	18.40%	28.71%	0.03%
	Intermediate Bond	Real Estate	Large Cap	Large Cap	Asset Allocation	High Yield	Large Cap	Intl Bonds	Real Estate	Emerging Markets	Commodities	Real Estate
	7.84%	17.59%	32.39%	13.69%	1.28%	17.34%	21.83%	-1.66%	25.76%	18.31 %	27.11%	-3.87%
	Intl Bonds	Intl Stocks	Intl Stocks	Asset Allocation	Intermediate Bond	Large Cap	Mid Cap	Government Treasury	Small Cap	Government Treasury	Mid Cap	High Yield
	5.93%	17.32%	22.78%	10.62%	0.55%	11.96%	16.24%	-1.84%	25.53%	17.70%	24.76%	-4.53%
	Asset Allocation	Small Cap	Asset Allocation	Mid Cap	Cash	Commodities	Small Cap	High Yield	Asset Allocation	Asset Allocation	Asset Allocation	Large Cap
	4.69%	16.35%	17.56%	9.77%	0.03%	11.77%	14.65%	-2.26%	22.18%	14.73%	15.86%	-4.60%
	High Yield	Large Cap	High Yield	Intermediate Bond	Intl Stocks	Emerging Markets	Asset Allocation	Asset Allocation	Intl Stocks	Mid Cap	Small Cap	Mid Cap
	4.50%	16.00%	7.38%	5.97%	-0.81%	11.19%	14.21%	-2.35%	22.01%	13.66%	14.82%	-4.88%
	Large Cap	High Yield	Real Estate	Small Cap	Government Treasury	Asset Allocation	Intl Bonds	Large Cap	Emerging Markets	Intl Bonds	Intl Stocks	Asset Allocation
	2.11%	15.44%	1.86%	4.89%	-1.21%	8.31%	9.92%	-4.38%	18.44 %	10.52%	11.26%	-5.07%
	Cash	Asset Allocation	Cash	High Yield	Mid Cap	Real Estate	Government Treasury	Real Estate	Government Treasury	Intl Stocks	High Yield	Intl Stocks
	0.06%	11.31%	0.06%	2.44%	-2.18%	7.24%	8.53%	-4.84%	14.83%	7.82%	5.29%	-5.91%
	Mid Cap	Intermediate Bond	Intermediate Bond	Cash	Small Cap	Intermediate Bond	High Yield	Small Cap	High Yield	Intermediate Bond	Cash	Intermediate Bond
	-1.73%	4.21%	-2.02%	0.02%	-4.41%	2.65%	7.48%	-11.01%	14.40%	7.51%	0.05%	-5.93%
	Small Cap	Government Treasury	Emerging Markets	Emerging Markets	High Yield	Intl Bonds	Real Estate	Mid Cap	Intermediate Bond	High Yield	Intermediate Bond	Emerging Markets
	-4.18%	3.56%	-2.60%	-2.19%	-4.55%	1.86%	4.18%	-11.08%	8.72%	6.20%	-1.54%	-6.97%
	Intl Stocks	Intl Bonds	Intl Bonds	Intl Bonds	Intl Bonds	Government Treasury	Intermediate Bond	Commodities	Commodities	Cash	Emerging Markets	Intl Bonds
	-12.14%	0.85%	-5.06%	-2.53%	-4.84%	1.33%	3.54%	-11.25%	7.69%	0.58%	-2.54%	-7.13%
	Commodities	Cash	Commodities	Intl Stocks	Emerging Markets	Intl Stocks	Commodities	Intl Stocks	Intl Bonds	Commodities	Government Treasury	Small Cap
	-13.32%	0.09%	-9.52%	-4.90%	-14.92%	1.00%	1.70%	-13.79%	5.23%	-3.12%	-4.65%	-7.53%
\downarrow	Emerging Markets	Commodities	Government Treasury	Commodities	Commodities	Cash	Cash	Emerging Markets	Cash	Real Estate	Intl Bonds	Government Treasury
Worst	-18.42%	-1.06%	-12.66%	-17.01%	-24.66%	0.27%	0.84%	-14.58%	2.25%	-7.90%	-9.51%	-10.58%

The returns above reflect performance of certain indexes as defined below. This information is general in nature and is not intended to be reflective of any specific plan. Cash- FTSE 3 month T-bill ,Government Treasury-Bloomberg Long Treasury, Commodities-Bloomberg Commodity Idx, Intermediate Bond-Bloomberg US Agg Bond Idx, High Yield Bond-ICE BofAML High Yield Idx, Intl Bonds-JPMorgan GBI Global ex U.S., Asset Allocation-portfolio assumes the following weights: 60% S&P 500 and 40% Bloomberg US Agg, Large Cap-S&P 500, Mid Cap - S&P Midcap 400, Small Cap-Russell 2000, Intl Stocks-MSCI EAFE (net), Emerging Markets-MSCI EM (net), Real Estate-Wilshire U.S. REIT.

Past performance does not guarantee future results



One growth headwind ends as another begins

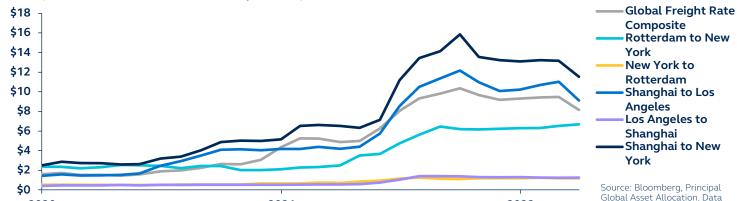
Pandemic headwinds have faded. Except for some Asian nations which have maintained their "zero-COVID" policies and are struggling with rising case counts, most countries have eased restrictions. In turn, this has eased supply chain bottlenecks, enabling a rise in inventories and production. After re-intensifying through the Omicron wave, freight rates finally show signs of topping, and ISM input price and delivery times have been on a downward trajectory.

While global economic activity numbers in the first half of Q1 show robust underlying growth as Omicron drags faded, a new headwind has formed. The Russia-Ukraine conflict has not only impacted sentiment but has sent global commodity prices soaring. Higher oil prices will likely introduce a drag on real disposable income that will weigh on spending in 2022, while there could be additional downside risks to economic growth if shortages of key metals once again constrain global production. Nonetheless, excess savings cushions and potential government intervention to shield consumers from the energy spike mean that recession is unlikely in 2022.

The Russia-Ukraine conflict has driven up commodity prices, threatening a renewed slowdown in global growth. Yet, excess savings and government support should ward off

Global freight rates





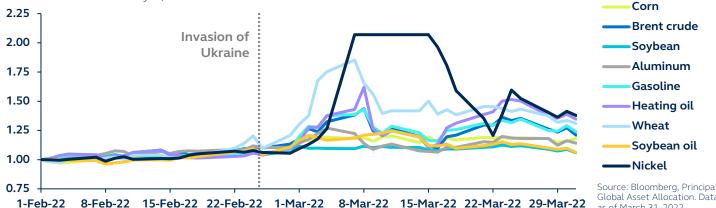
2022

2021

Commodity futures

2020

Rebased to 1 at February 1, 2022



Source: Bloomberg, Principal Global Asset Allocation, Data as of March 31, 2022.

as of March 31, 2022.



Energy shock: U.S. less exposed than Europe

Although the trade impact on both the U.S. and Europe will be limited (Russia accounts for less than 1% of their exports), Europe is significantly more exposed to the conflict in Ukraine. As a net energy exporter and given declining oil intensity, the U.S. is less vulnerable to a rise in oil and gas prices. Europe, by contrast, is a net energy importer and, what's more, over 40% of EU gas and 20% of EU oil originates from Russia. Elevated energy prices significantly disrupt Europe's growth outlook.

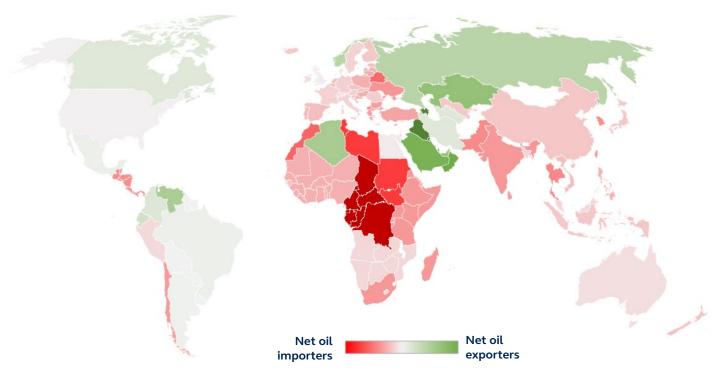
A cut in Russia's energy supply could also hamper Europe's prospects. In that scenario, Europe would need to cut its energy consumption in return, likely involving industry rationing and therefore, a potentially crippling blow to the European economy.

Europe's exposure to, and reliance on, Russian energy makes for a potentially very negative economic backdrop for the region. In the U.S., as energy producers will benefit from an increase in prices, inspiring a rise in capex, the overall economic impact is relatively minor.

Europe is significantly more vulnerable to the Russia-Ukraine conflict than the U.S. Globally, however, safeguarding portfolio value against this energy shock will be imperative.

Net oil importers and exporters

Oil production minus consumption as a percentage of latest GDP



Source: BP, International Monetary Fund, World Bank, Principal Global Asset Allocation. Countries without data are omitted. Data as of March 31, 2022.



Timeline for elevated inflation keeps extending

There's growing recognition that global inflation will remain elevated throughout 2022. While last year's move higher largely reflected supply chain constraints, inflation pressures have now broadened and, importantly, to typically stickier items. Furthermore, higher energy prices and upward pressures on food prices look set to generate a material further inflation shock.

For central banks, the key concern lies in the risk of a wage/price spiral. In the U.S. and parts of Europe, while labor demand is strong, labor participation has been depressed. The move toward historically tight labor markets risks a more significant resurgence in labor bargaining power.

However, labor participation should rise over the coming months, relieving some wage pressure. While the poorest cohort of households received a cash influx in 2020, as time and inflation have eroded that savings buffer, their real cash holdings are almost back to pre-pandemic levels. Since household budget constraints will force much of that demographic back into the labor force, headline wage growth has likely peaked.

U.S. inflation should fall from current peak levels by end-2022. A wage/price spiral is a key risk, but rising labor

PGAA GDP-weighted inflation

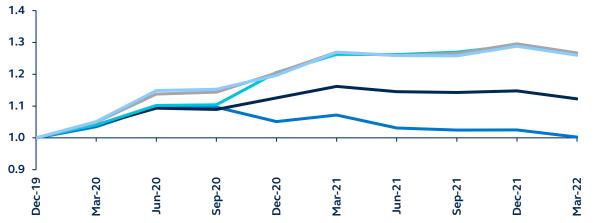
January 2007 – present



Source: Bloomberg, Principal Data as of March 31, 2022.

Real cash holdings by household net worth

Level, rebased to 1 at December 31, 2019



----Oth-20th percentile

20th-40th percentile

40th-60th percentile

-60th-80th percentile

80th-100th percentile

Source: Bloomberg, Federal Reserve Distributional Financial Accounts. Principal Global Asset Allocation. Cash includes checkable deposits, currency, short-term investments, and money market fund shares. Nominal cash is deflated by headline CPI index. Data as of March 31, 2022.



Central bank tightening: Sprinting to save credibility

Global growth is slowing, meanwhile, inflation is near record highs and rising. Central banks have a tightrope to walk. For the Fed, though, the priority is clear: With inflation almost quadruple the 2% target, they're desperately behind the inflation curve and need to tighten aggressively. Except for 1980, inflation has never been so high at the point of Fed lift-off as it is now—and in the 1980-episode, policy rates rose 600 basis points in the first year alone.

The Fed's dot plot sees seven hikes this year, equivalent to 175 basis points. However, markets have rapidly moved to price an even sharper tightening cycle, expecting rate hikes at each of the six remaining policy meetings this year—two of which could be 50 basis point moves. That would take Fed policy rates above 2% by year-end.

Can the U.S. economy withstand such tightening? For 2022, yes. Households today have excess savings to cushion them, the labor market is strong, and corporate balance sheets are also looking healthy. However, further tightening in 2023 will see policy rates becoming restrictive, raising the risk of recession. While the Fed is aiming for a soft landing, there is only a very narrow margin for error.

The Fed funds rate will likely rise above 2% this year as the Fed plays inflation catch-up. Something will need to give

Federal Reserve policy rate tightening and Consumer Price Index





■ Tightening in first year of hiking cycle, bps (LHS)

CPI at Fed lift off (RHS)

Source: Bloomberg, Principal Global Investors. *Projected tightening from March - December 2022. Data as of March 18, 2022.

Implied fed funds target rate and market expectations

FOMC member projections & fed funds futures



Median FOMC projection

Reserve, Principal Global Investors.



Financial conditions have the deciding vote on growth

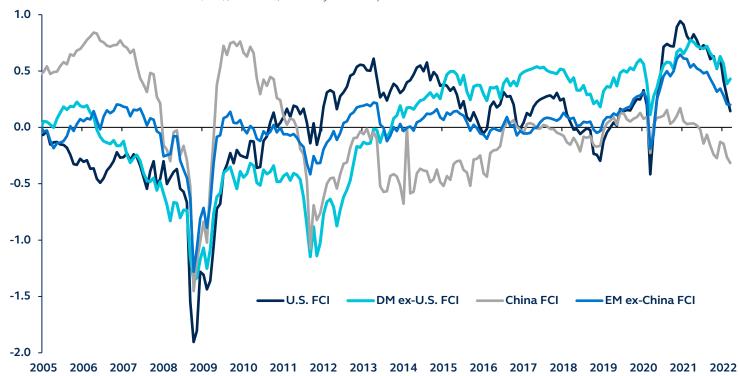
Global financial conditions have tightened in recent months, reflecting expectations for tighter monetary policy and, more recently, geopolitically driven market turmoil. Still, financial conditions are only slightly higher than average, indicating only a very modest restraint on economic activity. It would take a very meaningful further tightening in financial conditions—perhaps due to a significant ratcheting up of geopolitical tensions or a sharp deterioration in macro fundamentals—to compel the Fed to hit the brakes on rate hikes.

In the Euro area, a more drastic tightening in financial conditions has likely pushed the European Central Bank's (ECB) first rate hike into 2023. By contrast, in most parts of Latin America, the end of policy normalization is already nearing. Much of EM Asia have been relatively shielded from the inflation scare, allowing them to continue normalization in a gradual manner. Different to all the rest, timid inflation pressures and a high GDP growth target this year means that China is moving in the other direction, easing financial conditions to stabilize and strengthen growth.

Global financial conditions are tightening, but remain at historically loose levels. It will take a considerably greater tightening to bring inflation back to target.

Developing market and emerging market financial conditions

PGAA Financial Conditions Index (FCI), Z-score, January 2005 – present



Source: Bloomberg, Principal Global Asset Allocation. Data as of March 31, 2022.



U.S. bonds suffer largest quarterly loss since 1980

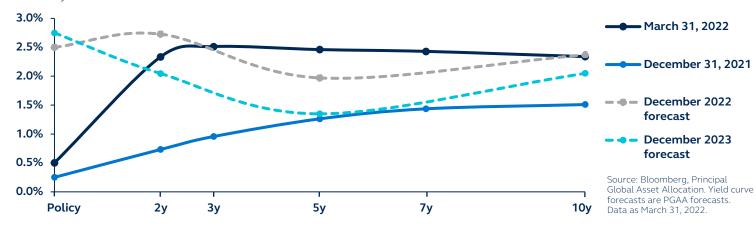
Although the geopolitical conflict has led to substantial volatility in bond yields, the recent spike higher in UST yields has been the result of markets pricing in greater inflation risk and significant Fed policy hikes. Bond yields are likely to stay elevated as the Fed continues with its rapid policy normalization. The front-loaded Fed tightening path will maintain upward pressure on the front-end of the yield curve.

The U.S. Treasury yield curve (the difference between the yields on 2-year and 10-year U.S. government debt) has inverted ahead of every U.S. recession since the 1950s. The lead time between curve inversion and recession tends to be long and variable, but on average is 12 to 18 months. However, the huge quantities of government bonds owned by central banks in recent years are suppressing long-term yields. As a result of its expected quantitative tightening program, the signals from an inversion may be distorted.

Sharp repricing of Fed hikes has driven a drastic bond market sell-off and front-end yields are soaring. Yield curve inversion is signaling potential recession in 2023/4.

U.S. 10-year treasury yield curve

Current yield curve vs. forecasts



Yield curve steepness

10-year minus 2-year yields, recessions are shaded, 1975 - present





· GLOBA

INDEX DESCRIPTIONS

Bloomberg EM Hard Currency Aggregate Index is a hard currency Emerging Markets debt benchmark that includes USD denominated debt from sovereign, quasi-sovereign, and corporate EM issuers.

The Bloomberg Pan-European Aggregate Index tracks fixed-rate, investment-grade securities issued in the following European currencies: Euro, British pounds, Norwegian krone, Danish krone, Swedish krona, Czech koruna, Hungarian forint, Polish zloty, and Slovakian koruna.

Bloomberg U.S. Aggregate Bond Index is the most widely followed broad market U.S. bond index. It measures the investment grade, US dollar-denominated, fixed-rate taxable bond market.

Bloomberg U.S. Corp High Yield 2% Issuer Capped Index is an unmanaged index comprised of fixed rate, non-investment grade debt securities that are dollar denominated. The index limits the maximum exposure to any one issuer to 2%.

Bloomberg U.S. Corporate Investment Grade Index includes publicly issued U.S. corporate and specified foreign debentures and secured notes that meet the specified maturity, liquidity and quality requirements. To qualify, bonds must be SEC-registered. The corporate sectors are industrial, utility and finance, which include both U.S. and non-U.S. corporations.

FTSE Nareit All Equity REITs Index is a free-float adjusted, market capitalization-weighted index of U.S. equity REITs. Constituents of the index include all tax-qualified REITs with more than 50 percent of total assets in qualifying real estate assets other than mortgages secured by real property.

ICE BofA Fixed Rate Preferred Securities Index tracks the performance of fixed-rate U.S. dollar denominated preferred securities issued in the U.S. domestic market. All holdings are investment-grade rated.

MSCI AC Asia ex Japan Index captures large and mid cap representation across 2 of 3 Developed Markets (DM) countries (excluding Japan) and 9 Emerging Markets (EM) countries in Asia.

MSCI AC Asia Pacific Index captures large and mid cap representation across 5 Developed Markets countries and 9 Emerging Markets countries in the Asia Pacific region.

MSCI ACWI Index includes large and mid cap stocks across developed and emerging market countries.

MSCI Brazil Index is designed to measure the performance of the large and mid cap segments of the Brazilian market.

MSCI China Index captures large and mid cap representation across China A shares, H shares, B shares, Red chips, P chips and foreign listings (e.g. ADRs).

MSCI EAFE Index is listed for foreign stock funds (EAFE refers to Europe, Australasia, and Far East). Widely accepted as a benchmark for international stock performance, the EAFE Index is an aggregate of 21 individual country indexes.

MSCI Emerging Markets Index consists of large and mid cap companies across 24 countries and represents 10% of the world market capitalization. The index covers approximately 85% of the free float-adjusted market capitalization in each country in each of the 24 countries.

MSCI Europe Index captures large and mid cap representation across 15 Developed Markets (DM) countries in Europe.

MSCI Germany Index is designed to measure the performance of the large and mid cap segments of the German market.

MSCI India Index is designed to measure the performance of the large and mid cap segments of the Indian market.

MSCI Japan Index is designed to measure the performance of the large and mid cap segments of the Japanese market.

MSCI Russia Index is designed to measure the performance of the large and mid cap segments of the Russian market.

MSCI United Kingdom Index is designed to measure the performance of the large and mid cap segments of the UK market.

MSCI USA Growth Index captures large and mid cap securities exhibiting overall growth style characteristics in the U.S. The growth investment style characteristics for index construction are defined using five variables: long-term forward EPS growth rate, short-term forward EPS growth rate, current internal growth rate and long-term historical EPS growth trend and long-term historical sales per share growth trend.

MSCI USA Index is a market capitalization weighted index designed to measure the performance of equity securities in the top 85% by market capitalization of equity securities listed on stock exchanges in the United States.

MSCI USA Large Cap Index is designed to measure the performance of the large cap segments of the U.S. market.

MSCI USA Mid Cap Index is designed to measure the performance of the mid cap segments of the U.S. market.

MSCI USA Quality Index aims to capture the performance of quality growth stocks by identifying stocks with high quality scores based on three main fundamental variables: high return on equity (ROE), stable year-over-year earnings growth and low financial leverage. The MSCI Quality Indexes complement existing MSCI Factor Indexes and can provide an effective diversification role in a portfolio of factor strategies.

MSCI USA Small Cap Index is designed to measure the performance of the small cap segment of the U.S. equity market.

MSCI USA Value Index captures large and mid cap U.S. securities exhibiting overall value to price, 12-month forward earnings to price and dividend yield.

Standard & Poor's 500 Index is a market capitalization-weighted index of 500 widely held stocks often used as a proxy for the stock market.

Market indices have been provided for comparison purposes only. They are unmanaged and do not reflect any fees or expenses. Individuals cannot invest directly in an index.



IMPORTANT INFORMATION

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