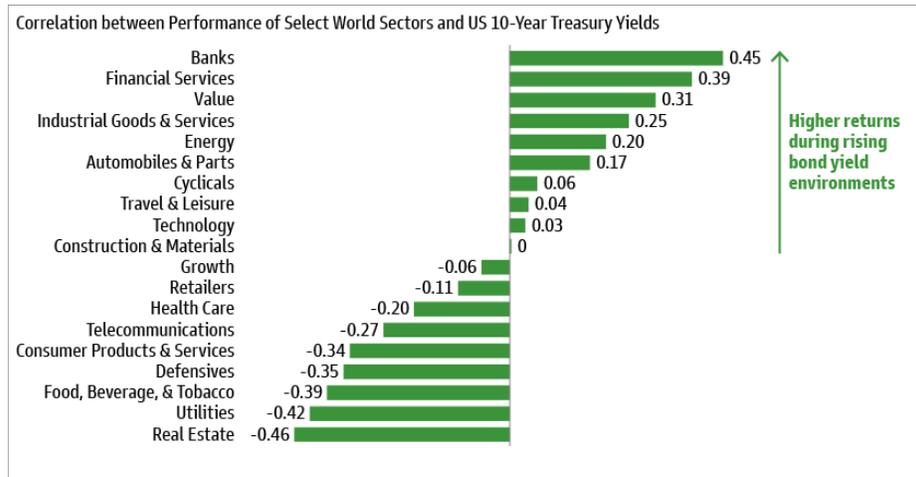


Perspectives from GSAM Strategic Advisory Solutions

Chart of the Week: Rate Relations



US 10-Year Treasury yields have returned to pre-pandemic levels which we believe can remain supportive of risk assets. While the rate transition may drive near-term volatility, select equity sectors may also stand to benefit. Cyclicals and value sectors such as financials have historically been positively correlated with 10-year yields while rates have had a negative relationship with defensive growth sectors.

Source: Datastream, Worldscope, and Goldman Sachs Global Investment Research.

MARKET SUMMARY

GLOBAL EQUITIES: Global equities tumbled last week following continued COVID-19 contagion and Fed guidance for a quicker pace of US monetary policy normalization. In the US, the prospect of more aggressive policy tightening and earlier balance sheet runoff, alongside Omicron-related employment impact, drove the S&P 500 -1.83% lower. Similarly, European equities reversed earlier gains as US rate worries weakened sentiment, with the STOXX 600 falling by -0.30% while the FTSE 100 ultimately ended the week up 1.37%.

COMMODITIES: Oil prices rallied into the new year as December global production levels fell short of OPEC+ supply. Social unrest in Kazakhstan and outages in Libya continued to raise supply-side concerns, despite OPEC+'s commitment to increasing output by 400k barrels per day starting in February. WTI and Brent prices ended higher at \$78.90 and \$81.75 per barrel, respectively.

ECONOMIC SUMMARY

LABOR: US Initial Jobless Claims rose 7k to 207k for the week ending January 1, above consensus expectations but below pre-pandemic levels. Job openings declined to 10.6mn and quits surged to a record 4.5mn in November. The healthcare industry posted its highest quits rate to date. Meanwhile, US unemployment fell to 3.9%, and US non-farm payrolls added 199k jobs, missing consensus estimates of 400k. The unexpected slowdown in hiring suggested that limited labor supply remains a constraint on employment growth. Workforce participation remained 2.3mn below pre-pandemic levels.

FIXED INCOME: US Treasury yields jumped last week as markets assessed the FOMC's hawkish December meeting minutes. Expectations of accelerated tapering and rate hikes beginning as early as March pushed US 10-Year yields up 27 bp in the first week of 2022 to 1.77%, a new pandemic high. The 2-Year yield also hit a 22-month high before finishing at 0.87%. European yields followed suit, with the 10-Year UK Gilt and German Bund yields ending the week at 1.18% and -0.04%, respectively.

FX: The US dollar appreciated on expectations for higher US policy rates and tight labor market prints, rising 0.18% against a basket of peers. The euro ended last week down -0.20% against the US dollar. Meanwhile, the pound sterling hit a two-month high before slipping to \$1.3597 as the US dollar strengthened and COVID-19 fears eased.

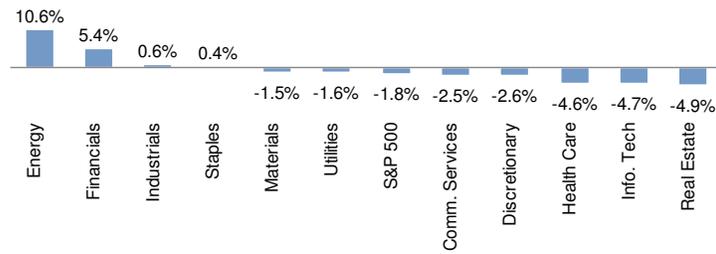
MANUFACTURING: The US ISM Manufacturing Index printed below consensus expectations at 58.7 MoM, its lowest reading since last January but still expansionary. In China, the Caixin composite PMI rose to 53.0 in December. The print reflected strong demand and easing supply chain pressures, conditions that may evolve following the Omicron surge.

INFLATION: Euro area flash CPI increased to a record 5.0% YoY in December driven by elevated volatility in energy, food, and alcohol & tobacco categories. However, core CPI remained unchanged from November's 2.6% print.

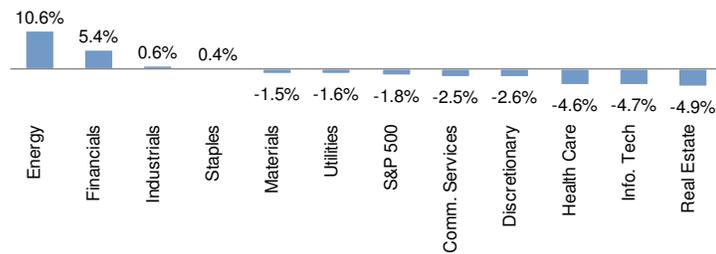
Market Watch

S&P 500 Index Sector Returns

Month-to-Date, As of 01/07/22

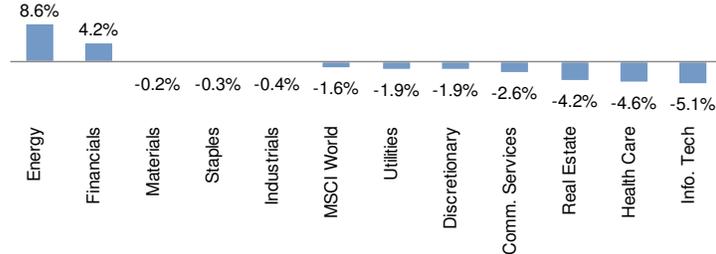


Year-to-Date, As of 01/07/22

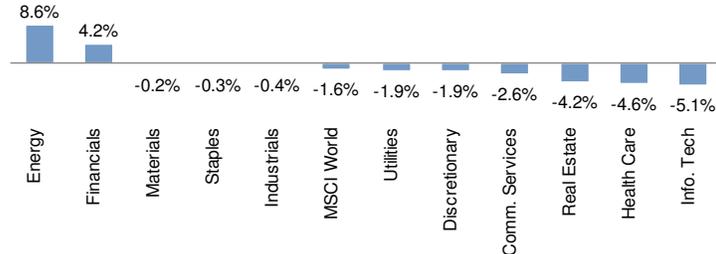


MSCI World Index Sector Returns

Month-to-Date, As of 01/07/22



Year-to-Date, As of 01/07/22



Economic Watch

Monday, Jan 10	Tuesday, Jan 11	Wednesday, Jan 12	Thursday, Jan 13	Friday, Jan 14	Critical Future Events
Euro area Unempl. (Cons: 7.2%, Prior: 7.3%)	UK Manuf. Prod. (Cons: -, Prior: 0.1%) China PPI YoY (Cons: -, Prior: 12.9%) China CPI YoY (Cons: -, Prior: 2.3%)	Euro Ind. Prod (Cons: 0.7%, Prior: 1.1%) US Core CPI YoY (Cons: 4.9%, Prior: 4.9%)	US PPI YoY (Cons: -, Prior: 9.6%) Japan PPI (Cons: 0.3%, Prior: 0.6%)	US Retail Sales MoM (Cons: 0.3%, Prior: 0.3%) US Ind. Prod. (Cons: 0.4%, Prior: 0.5%) UMich Cons. Sentiment (Cons: 70.6, Prior: 70.6)	FOMC Meeting – January 25-26 BoE Meeting – February 3 ECB Meeting – February 3

Style Performance

US Equity Size & Style Returns

Month-to-Date (as of 01/07/22)			Year-to-Date			
Value	Core	Growth		Value	Core	Growth
0.82%	-2.16%	-4.81%	Large	0.82%	-2.16%	-4.81%
-0.13%	-2.79%	-7.55%	Medium	-0.13%	-2.79%	-7.55%
0.04%	-2.91%	-5.84%	Small	0.04%	-2.91%	-5.84%

MSCI World Size & Style Returns

Month-to-Date (as of 01/07/22)			Year-to-Date			
Value	Core	Growth		Value	Core	Growth
1.43%	-1.54%	-4.36%	Large	1.43%	-1.54%	-4.36%
0.50%	-2.27%	-5.79%	Medium	0.50%	-2.27%	-5.79%
0.75%	-1.85%	-4.51%	Small	0.75%	-1.85%	-4.51%

US Fixed Income Maturity and Quality Returns

Month-to-Date (as of 01/07/22)			Year-to-Date			
Short	Intermed.	Long		Short	Intermed.	Long
-0.52%	-0.91%	-4.18%	Government	-0.52%	-0.91%	-4.18%
-0.51%	-1.02%	-3.32%	Corporate	-0.51%	-1.02%	-3.32%
-0.41%	-0.84%	-2.27%	High Yield	-0.41%	-0.84%	-2.27%

European Fixed Income Maturity and Quality Returns

Month-to-Date (as of 01/07/22)			Year-to-Date			
Short	Intermed.	Long		Short	Intermed.	Long
-0.10%	-0.50%	-1.41%	Government	-0.10%	-0.50%	-1.41%
-0.07%	-0.42%	-0.94%	Corporate	-0.07%	-0.42%	-0.94%
0.14%			High Yield	0.14%		

Source: Bloomberg and Goldman Sachs Asset Management. For style performance, Large, Mid, and Small for US Equity refer to the Russell 1000, Russell Midcap, and Russell 2000 indices, respectively. Value refers to companies with lower price-to-book ratios and lower expected growth values, and Growth refers to higher price-to-book ratios and higher forecasted growth values. For US Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg Treasury, Bloomberg Corporate Credit, and Bloomberg High Yield indices, respectively. Short, Intermediate, and Long refer to the Short, Intermediate, and Long segments of their respective curves. For European Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg Euro Treasury Index, the Bloomberg Euro Corporate Index, and the Bloomberg Euro High Yield Index, respectively. Quality returns refers to the credit quality of asset classes ranging from Government, highest quality, to High Yield, lowest quality. Since August 24, 2021, the Barclays indices are branded "Bloomberg indices". Please see end disclosures for footnotes. **Past performance does not guarantee future results, which may vary.**

Weekly Market Recap

Index Returns				
	1 week	MTD	QTD	YTD
Equities				
S&P 500	-1.83%	-1.83%	-1.83%	-1.83%
DJ Industrial Average	-0.25%	-0.25%	-0.25%	-0.25%
Russell 2000	-2.91%	-2.91%	-2.91%	-2.91%
Russell Midcap	-2.79%	-2.79%	-2.79%	-2.79%
STOXX Europe 50 (€)	0.23%	0.23%	0.23%	0.23%
STOXX Europe 600 (€)†	-0.30%	-0.30%	-0.30%	-0.30%
MSCI EAFE Small Cap	-1.41%	-1.41%	-1.41%	-1.41%
FTSE 100 (£)	1.37%	1.37%	1.37%	1.37%
DAX (€)	0.40%	0.40%	0.40%	0.40%
FTSE MIB (€)	0.99%	0.99%	0.99%	0.99%
CAC 40 (€)†	1.00%	1.00%	1.00%	1.00%
SWISS MKT (CHF)	-0.60%	-0.60%	-0.60%	-0.60%
TOPIX (¥)	0.17%	0.17%	0.17%	0.17%
Hang Seng (HKD)	0.41%	0.41%	0.41%	0.41%
MSCI World	-1.64%	-1.64%	-1.64%	-1.64%
MSCI China Free†	-1.70%	-1.70%	-1.70%	-1.70%
MSCI EAFE	-0.29%	-0.29%	-0.29%	-0.29%
MSCI EM	-0.47%	-0.47%	-0.47%	-0.47%
MSCI Brazil (BRL)	-0.88%	-0.88%	-0.88%	-0.88%
MSCI India (INR)	2.07%	2.07%	2.07%	2.07%
MSCI Russia (RUB)	-0.86%	-0.86%	-0.86%	-0.86%
Fixed Income				
Bloomberg Aggregate	-1.53%	-1.53%	-1.53%	-1.53%
Bloomberg Euro Aggregate	-0.79%	-0.79%	-0.79%	-0.79%
Bloomberg US High Yield	-0.94%	-0.94%	-0.94%	-0.94%
Bloomberg Euro High Yield (€)	0.14%	0.14%	0.14%	0.14%
Bloomberg Muni Aggregate	-0.70%	-0.70%	-0.70%	-0.70%
Bloomberg TIPS	-2.38%	-2.38%	-2.38%	-2.38%
JPM EMBI Gbl. Divers.	-1.55%	-1.55%	-1.55%	-1.55%
JPM GBI-EM Gbl. Divers.	-0.65%	-0.65%	-0.65%	-0.65%
Other				
DJ US Real Estate	-4.52%	-4.52%	-4.52%	-4.52%
FTSE EPRA/NAREIT Dvlpd. Ex-US	-1.67%	-1.67%	-1.67%	-1.67%
S&P GSCI	3.07%	3.07%	3.07%	3.07%
Alerian MLP *	5.78%	5.78%	5.78%	5.78%
US Dollar Index	0.18%	0.18%	0.18%	0.18%
VIX	8.94%	8.94%	8.94%	8.94%

Commodities				
	01/07/22	12/31/21	09/30/21	12/31/20
WTI Oil (\$/barrel)	\$78.90	\$75.21	\$75.03	\$48.52
Brent Oil (\$/barrel)	\$81.75	\$77.78	\$78.52	\$51.80
Gold (\$/oz)	\$1799.90	\$1831.00	\$1758.50	\$1899.60
Natural Gas (\$/mmBtu)	\$3.92	\$3.73	\$5.87	\$2.54

Currencies				
	01/07/22	12/31/21	09/30/21	12/31/20
Euro (\$/€)	1.1363	1.1386	1.1584	1.2226
Pound (\$/£)	1.3597	1.3535	1.3475	1.3653
Japanese Yen (¥/\$)	115.56	115.03	111.40	103.29
Swiss Franc (CHF/€)	1.0436	1.0378	1.0803	1.0821
Chinese Yuan Renminbi (CNY/\$)	6.3778	6.3797	6.4520	6.5140

Rates & Spreads				
	01/07/22	12/31/21	09/30/21	12/31/20
Rates				
Fed Funds Target	0.25%	0.25%	0.25%	0.25%
Secured Overnight Financing Rate *	0.05%	0.05%	0.05%	0.07%
ECB Depo Rate	-0.50%	-0.50%	-0.40%	-0.40%
3-Month US Dollar Libor	0.24%	0.21%	0.13%	0.24%
US Treasuries 2-Year	0.87%	0.73%	0.29%	0.12%
US Treasuries 10-Year	1.77%	1.50%	1.53%	0.91%
US Treasury 2-10 Slope	0.90%	0.77%	1.24%	0.79%
German Bunds 2-Year	-0.59%	-0.62%	-0.69%	-0.70%
German Bunds 10-Year	-0.04%	-0.18%	-0.20%	-0.57%
Japanese Govt Bonds 10-Year	0.14%	0.07%	0.07%	0.02%
UK Gilts 10-Year	1.18%	0.97%	1.02%	0.20%
Swiss Govt Bonds 10-Year	0.01%	-0.14%	-0.16%	-0.55%
French OATs 10-Year	0.29%	0.20%	0.15%	-0.34%
Italian BTPs 10-Year	1.31%	1.17%	0.86%	0.54%
Spanish Bonos 10-Year	0.65%	0.56%	0.46%	0.05%
Spreads				
HY Corp. Spread (bps)	296	283	287	359
Bank Loan Spread (bps) *	432	439	438	486
IG Corp. Spread (bps)	92	92	84	96
EMD Spread (bps)	376	376	365	359

Global Equity Valuations

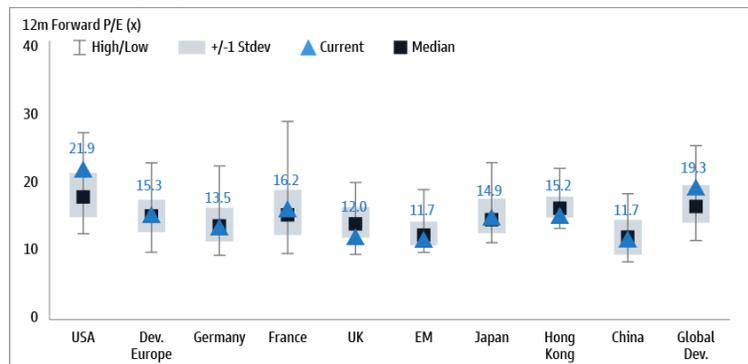


Chart Source: Goldman Sachs Asset Management and Bloomberg as of close of trading on December 31, 2021. Chart data shows next 12 month P/E ratio from January 2012 to the current period. 12m forward P/E(x) refers to price-to-earnings ratio for the next 12 months, which is a valuation measure applied to respective broad equity indices. Please see additional disclosures at the end of this presentation.

Weekly Market Recap Notes:

All data is denominated in USD unless noted otherwise.

† Data is released weekly, as of Monday.

If data displays an asterisk:

* Data is lagged by 1 day.

** Data is lagged by 2 days.

Source: Goldman Sachs Asset Management. **Past performance does not guarantee future results, which may vary. Please see end disclosures for footnotes.**

Important Information

Page 1 Chart of the Week Notes:

As of January 4, 2022. The chart shows the 10 year correlation of US 10-year Treasury yields with relative price performance of Worldscope Global indices sectors and factors in week over week returns, from January 4, 2012 to January 4, 2022. MSCI World Indices are used for Growth and Value. Cyclical and Defensives are calculated by Goldman Sachs. "During rising bond yield environments" refers to increases in the 10-year US Treasury yield. "Defensive growth sectors" refers to sectors that are expected to perform better on a relative basis when growth is generally weaker and more scarce, such as Consumer Staples and Utilities.

Page 1 Market Summary Notes:

"Fed" refers to the Federal Reserve. "OPEC+" refers to the Organization of the Petroleum Exporting Countries and its allies. "WTI" stands for West Texas Intermediate crude oil, a common US benchmark for oil prices. "Brent" is a global benchmark for oil prices worldwide. "FOMC" refers to the Federal Reserve's Federal Open Market Committee. "Hawkish" refers to less accommodative policy. "Tapering" refers to the gradual winding down of the Federal Reserve's large-scale asset purchases.

Page 1 Economic Summary Notes:

"Mn" refers to millions. "US ISM Manufacturing Index" refers to the US Institute for Supply Management's Manufacturing Index. "MoM" refers to month-over-month. "Caixin composite PMI" refers to the official China Caixin Manufacturing Purchasing Managers' Index. "Euro area flash CPI" refers to the Euro area flash Consumer Price Index. "YoY" refers to year-over-year. "Core CPI" refers to the Euro area core Consumer Price Index.

Page 2 Style Performance Notes:

For US Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg US Treasury, the Bloomberg US Corporate Credit, and the Bloomberg US High Yield indices, respectively. For European Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg Euro Treasury Index, the Bloomberg Euro Corporate Index, and the Bloomberg Euro High Yield Index, respectively. Short, Intermediate, and Long refer to the Short, Intermediate, and Long segments of their respective curves. Quality returns refers to the credit quality of asset classes ranging from Government, highest quality, to High Yield, lowest quality. Since August 24, 2016, the Barclays indices are co-branded "Bloomberg Barclays indices".

Page 2 Economic Watch Notes:

"UK Manuf. Prod." refers to UK Manufacturing Production. "China PPI YoY" refers to the China Producer Price Index, year-over-year. "China CPI YoY" refers to the China Consumer Price Index, year-over-year. "Euro Ind. Prod." refers to Eurostat Industrial Production, month-over-month. US Core CPI" refers to the US CPI excluding food and energy, year-over-year. "US PPI YoY" refers to the US Producer Price Index, year-over-year. "Japan PPI" refers to the Japan Producer Price Index, month-over-month. "US Retail Sales MoM" refers to US Retail Sales, month-over-month. "US Ind. Prod." refers to US Industrial Production, month-over-month. "UMich Cons. Sentiment" refers to the University of Michigan Consumer Sentiment Index.

Page 3 Global Equity Valuations Chart Notes:

Earnings are forward looking Bloomberg estimates of operating earnings per share over the next four quarters, which may exclude one-time extraordinary gains and losses. Please see index disclosures for additional definitions on the indices.

USA is represented by the MSCI USA Index, Dev. Europe is represented by MSCI Europe Index, Germany is represented by MSCI Germany Index, France is represented by MSCI France Index, UK is represented by MSCI UK Index, EM is represented by MSCI EM Index, Japan is represented by MSCI Japan Index, Hong Kong is represented by MSCI Hong Kong Index, China is represented by MSCI China Index, Global Dev. is represented by MSCI World Index.

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Equity securities are more volatile than bonds and subject to greater risks. Small and mid-sized company stocks involve greater risks than those customarily associated with larger companies. Bonds are subject to interest rate, price and credit risks. Prices tend to be inversely affected by changes in interest rates. Unlike stocks and bonds, U.S. Treasuries securities are guaranteed as to payment of principal and interest if held to maturity. High yield fixed income securities are considered speculative, involve greater risk of default, and tend to be more volatile than investment grade fixed income securities. Income from municipal securities is generally free from federal taxes and state taxes for residents of the issuing state. While the interest income is tax-free, capital gains, if any, will be subject to taxes. Income for some investors may be subject to the federal Alternative Minimum Tax (AMT). Investments in foreign securities entail special risks such as currency, political, economic, and market risks. These risks are heightened in emerging markets. Investments in commodities may be affected by changes in overall market movements, commodity index volatility, changes in interest rates or factors affecting a particular industry or commodity.

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Index Benchmarks

Equities

The **S&P 500 Index** is the Standard & Poor's 500 Composite Stock Prices Index of 500 stocks, an unmanaged index of common stock prices. The **Dow Jones Industrial Average Index** is a price-weighted average of 30 actively traded blue-chip stocks. The **Russell 1000 Index** is a market-cap weighted index that measures the performance of the 1,000 largest companies in the Russell 3000 Index. The **Russell Mid Cap Index** measures the performance of the 800 smallest companies in the Russell 1000 Index, which represent approximately 30% of the total market capitalization of the Russell 1000 Index. The **Russell 2000 Index** is an unmanaged index of common stock prices that measures the performance of the 2000 smallest companies in the Russell 3000 Index. The **MSCI EAFE Index** is a free-float weighted equity index, which covers developed markets countries in Europe, Australasia, Israel, and the Far East. The **MSCI Emerging Markets (EM) Index** is a free float-adjusted market capitalization index that captures large and mid-cap representation across five EM countries in Latin America. The **MSCI Frontier Markets Index** is a free float-adjusted market capitalization index that captures large and mid-cap representation across 22 frontier markets countries. The **STOXX Europe 600 Index** is derived from the STOXX Europe Total Market Index (TMI) and is a subset of the STOXX Global 1800 Index. With a fixed number of 600 components, the STOXX Europe 600 Index represents large, mid and small capitalization companies across 18 countries of the European region. The **Japan TOPIX Index** is a capitalization-weighted index of the largest companies and corporations that are found in the First Section of the Tokyo Stock Exchange. The **German DAX** is a capitalization-weighted blue chip stock market index consisting of the 30 major German companies trading on the Frankfurt Stock Exchange.

The **Shanghai Composite** is a market capitalization weighted index of all A-shares and B-shares that trade on the Shanghai Stock Exchange. **Euro Stoxx 50 Index**, Europe's leading Blue-chip index for the Eurozone, provides a Blue-chip representation of supersector leaders in the Eurozone. The **Financial Times Stock Exchange (FTSE) 100 Index** is an index of the 100 companies listed on the London Stock Exchange with the highest market capitalization. **FTSE MIB Index** is composed of 40 Italian equities and seeks to replicate the broad sector weights of the Italian stock market. **CAC 40 Index** is composed of the 40 largest equities listed in France. **SWISS Market Index** is composed of the largest and most liquid stocks traded on the Geneva, Zurich, and Basel Stock Exchanges. **Hang Seng Composite Index** covers about 95% of the total market capitalization of companies listed on the Main Board of the Hong Kong Stock Exchange. The **MSCI World Index** is a broad global equity index that represents large and mid-cap equity performance across 23 developed markets countries. It covers approximately 85% of the free float-adjusted market capitalization in each country. **CSI 300 Index** covers 300 stocks traded in the Shanghai and Shenzhen stock exchanges. The **MSCI China Index** captures large and mid cap representation across China H shares, B shares, Red chips, P chips and foreign listings (e.g. ADRs). With 461 constituents, the index covers about 85% of this China equity universe. Currently, the index also includes Large Cap A shares represented at 5% of their free float adjusted market capitalization. **MSCI Brazil Index** covers about 85% of the total market capitalization of the Brazilian equity universe. **MSCI India Index** covers about 85% of the total market capitalization of the Indian equity universe. **MSCI Russia Index** covers about 85% of the free float-adjusted market capitalization in Russia.

The **CBOE Volatility Index (VIX)** is a leading measure of market expectations of near-term volatility conveyed by S&P 500 Index option prices.

Fixed Income

The **Bloomberg US Aggregate Bond Index** represents an unmanaged diversified portfolio of fixed-income securities, including US Treasuries, investment-grade corporate bonds, and mortgage-backed and asset-backed securities. The **Bloomberg US High-Yield Index** covers the USD-denominated, non-investment grade, fixed-rate, taxable corporate bond market. The **Bloomberg US Aggregate Municipal Bond Index** is an unmanaged broad-based total return index composed of approximately 8,000 investment grade, fixed rate, and tax-exempt issues, with a remaining maturity of at least one year. The **Bloomberg US High Yield Municipal Bond Index** (formerly the Lehman Brothers High Yield Municipal Bond Index) is an unmanaged index made up of bonds that are noninvestment grade, unrated, or rated below Ba1 by Moody's Investors Service with a remaining maturity of at least one year. The **J.P. Morgan Emerging Markets Bond Index (EMBI Global Index)** is an unmanaged market capitalization Index that tracks total returns for USD-denominated debt instruments issued by emerging market sovereign and quasi-sovereign issuers. The **J.P. Morgan Government Bond Index-Emerging Markets Global Diversified (GBI-EM Global Index)** is a market capitalization Index that tracks the performance of local currency debt issued by emerging market governments. **Bloomberg Euro Aggregate Index** refers to the Bloomberg EuroAgg Index. The index measures the market of investment grade, euro-denominated, fixed-rate bond market, including treasuries, government-related, corporate and securitized issues. Inclusion is based on currency denomination of a bond and not country of risk of the issuer. **Bloomberg Euro High Yield Index** refers to the Bloomberg Euro High Yield 3% Issuer Capped Index. The index measures the of non-investment grade, fixed-rate corporate bonds denominated in USD. Inclusion is based on the currency of issue, and not the domicile of the issuer. The index excludes emerging market debt.

Other

The **S&P 500 Utilities Sector** comprises those companies included in the S&P 500 that are classified as members of the GICS® utilities sector. The **FTSE EPRA/NAREIT Developed ex US Index** is a subset of the FTSE EPRA/NAREIT Developed Index and is designed to track the performance of listed real estate companies and REITS.

The **S&P GSCI Commodity Index** is a composite index of commodity sector returns, representing an unleveraged, long-only investment in commodity futures that is broadly diversified across the spectrum of commodities. The **S&P 500 Consumer Staples Index** comprises those companies included in the S&P 500 that are classified as members of the GICS® consumer staples sector. The **USD Index** tracks the value of the USD relative to 6 major foreign currencies. The **Housing Starts** refers to US Housing Starts.

Commodities

WTI Oil refers to West Texas Intermediate (WTI) Crude Oil, a land-locked crude, delivered via pipeline into Cushing, Oklahoma. **Brent Oil** refers to Brent crude oil, a waterborne crude oil produced in the North Sea. **OPEC** refers to the Organization of the Petroleum Exporting Countries. The **Gold Spot** price is quoted as US Dollars per Troy Ounce.

Currencies

Euro (\$/€) refers to the Euro's exchange rate with the Dollar. **Pound (\$/£)** refers to the British Pound's exchange rate with the US Dollar. **Japanese Yen (¥/\$)** refers to the US Dollar's exchange rate with the Japanese Yen. **Swiss Franc (CHF/€)** refers to the Euro's exchange rate with the Swiss Franc. **Chinese Yuan Renminbi (CNY/\$)** refers to the US Dollar's exchange rate with the Chinese Yuan Renminbi.

Rates

The **federal funds rate** is the interest rate at which depository institutions lend balances at the Federal Reserve to other depository institutions overnight. The **LIBOR** is the USD-denominated London Interbank Offered Rate, and is the average of interest rates estimated by each of the leading banks in London that it would be charged were it to borrow from other banks. The **2-Year Treasury** is a US Treasury debt obligation that has a maturity of 2 years. The **10-Year Treasury** is a US Treasury debt obligation that has a maturity of 10 years. The **2-10 Treasury Slope** is the difference between the 10-Year Treasury and the 2-Year Treasury. The **Core-Periphery** spreads refers to the spread between sovereign debt yields of core European countries and peripheral European countries. The **German Bunds 2-Year** is a German debt obligation that has a maturity of 2 years. The **German Bunds 10-Year** is a German debt obligation that has a maturity of 10 years. The **Japanese Govt Bonds 2-Year** is a Japanese debt obligation that has a maturity of 2 years. The **Japanese Govt Bonds 10-Year** is a Japanese debt obligation that has a maturity of 10 years. The **UK Gilts 10-Year** is a UK debt obligation that has a maturity of 10 years. The **Swiss Govt Bonds 10-Year** is a Swiss debt obligation that has a maturity of 10 years. The **French OATs 10-Year** is a French debt obligation that has a maturity of 10 years. The **Italian BTPs 10-Year** is an Italian debt obligation that has a maturity of 10 years. The **Spanish Bonos 10-Year** is a Spanish debt obligation that has a maturity of 10 years.

Spreads

High Yield (HY) Corporate Spread is the Bloomberg US Corporate High Yield Average Option Adjusted Spread (OAS), which measures the spread between the US Treasury yield curve and the Bloomberg US Corporate High Yield curve. The **Bank Loan Spread** is the daily discount margin (3-year life) of the Credit Suisse Leveraged Loan Index, which is designed to mirror the investable universe of the USD-denominated leveraged loan market. The **Investment Grade (IG) Corporate Spread** is the Bloomberg US Aggregate Corporate Average OAS, which measures the spread between the US Treasury yield curve and the Bloomberg US Corporate Average curve. The **EMD Spread** is the J.P. Morgan EMBI Global Diversified Sovereign Spread, which measures the spread between the US Treasury yield curve and the J.P. Morgan EMBI Global Diversified Sovereign curve.

It is not possible to invest in an unmanaged index.

Although certain information has been obtained from sources believed to be reliable, we do not guarantee its accuracy, completeness or fairness. We have relied upon and assumed without independent verification, the accuracy and completeness of all information available from public sources.

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