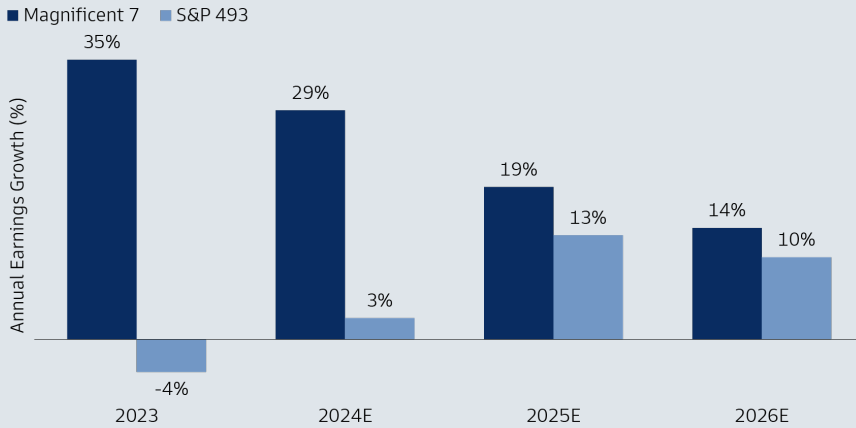


# MARKET MONITOR

## Chart Of The Week: Closing The Gap



## US EQUITIES

Fueled by a resilient macroeconomic backdrop and AI enthusiasm, Magnificent 7 companies have driven more than 40% of the S&P 500's year-to-date return. This outsized contribution has been supported by robust earnings growth, which has significantly outpaced that of the rest of the index. Moving forward however, this gap is expected to narrow, presenting investors with opportunities to find potentially more competitive returns through equal-weighted indices.

Source: GS GIR, and GS Asset Management. As of October 16, 2024

## MARKET SUMMARY

**GLOBAL EQUITIES:** US equities rose last week as strong consumer spending provided reassurance around the strength of the US consumer. The S&P 500 ultimately ended the week 0.87% higher. Outside of the US, the STOXX 600 and FTSE 100 rose by 0.59% and 1.28%, respectively, as headline inflation in the UK fell below 2% for the first time in over three years. In China, the Hang Seng index continued its decline last week despite strong retail sales activity, ultimately ending the week -2.11% lower.

**COMMODITIES:** Oil prices fell last week amid abating concerns that conflict in the Middle East will materially disrupt supply. WTI and Brent crude finished the week lower at \$69.22 and \$73.06/bbl, respectively, despite falling crude oil stockpiles in the US and above consensus industrial production activity in China. Meanwhile, the price of gold posted its sixth consecutive week of gains and broke through \$2,700 for the first time on Friday before ultimately ending the week at \$2754.30/troy oz.

**FIXED INCOME:** In the US, the 2-Year and 10-Year US Treasury yields remained roughly flat at 3.95% and 4.07%, respectively, as above consensus retail sales figures pointed to a more gradual pace of monetary easing ahead. Outside of the US, the 10-Year German Bund and 10-Year UK Gilt yields fell to 2.18% and 4.06%, respectively, behind the ECB cutting policy rates for the third time this year, highlighting continued disinflation progress in the Euro Area.

**FX:** The US dollar strengthened against a basket of currencies last week amidst mixed manufacturing data. Ultimately, the US dollar index rose by 0.67%. Elsewhere, the Chinese Yuan weakened against the dollar last week despite economic growth in the third quarter registering above consensus expectations, ultimately ending the week at ¥7.1032.

## ECONOMIC SUMMARY

**ACTIVITY:** In the US, core retail sales rose 0.7% month-over-month in September while headline retail sales rose 0.4%, both above consensus expectations. Specifically, core retail sales fell at electronics and furniture stores but rose in every other store category. In China, September activity data was stronger than expected with both industrial production and retail sales beating consensus expectations. As a result, 3Q GDP growth registered at 4.6% year-over-year, above consensus expectations of 4.5%. GIR expects activity to accelerate in 4Q on additional policy easing, now forecasting growth of 4.7% in 2025, up from 4.3% previously.

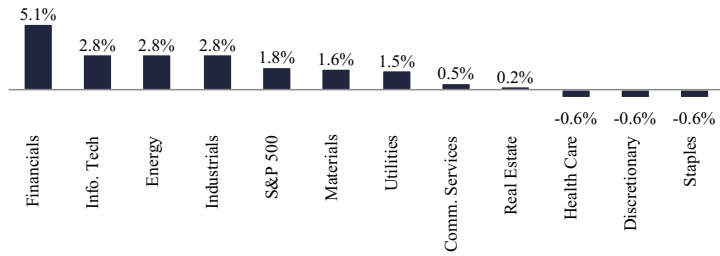
**MONETARY POLICY:** In the Euro area, the ECB cut its policy rate by 25bps as consensus expected, highlighting that the disinflationary process is well on track. This marks the beginning of the sequential cuts that we expect until the ECB reaches its target terminal rate of 2.00% in June. In the UK, headline inflation printed at 1.7% year-over-year in September, below consensus expectations and falling below the BoE's 2% target for the first since April 2021. This, coupled with the slowest nominal pay growth in 4 years, reinforces our expectation for an additional BoE rate cut next month.

**MANUFACTURING:** US Manufacturing activity was mixed in October. The Philadelphia Fed manufacturing index increased by 8.6pts to +10.3 in October, above consensus expectations. The composition of the print was mixed-to-strong, with increases in the shipments and new orders components and declines in the employment component. Conversely, the Empire manufacturing index declined sharply by -23.4pts to -11.9 in October, well below consensus expectations and back into contractionary territory. The composition of the report was mixed-to-weak, with decreases in the new orders and shipments components but an increase in the employment component.

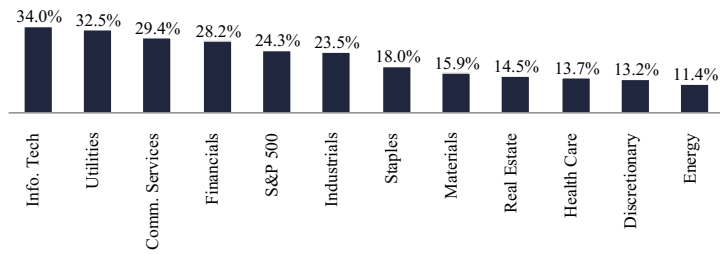
## MARKET WATCH

### S&P 500 INDEX SECTOR RETURNS

MONTH-TO-DATE, AS OF 10/18/24

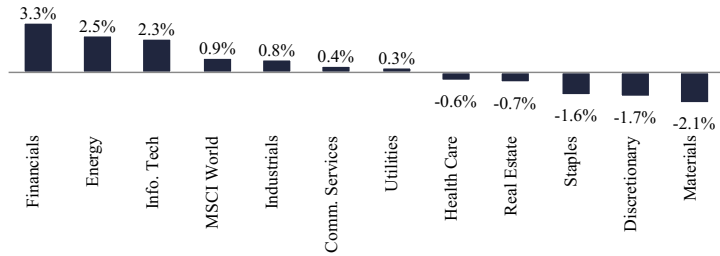


YEAR-TO-DATE, AS OF 10/18/24

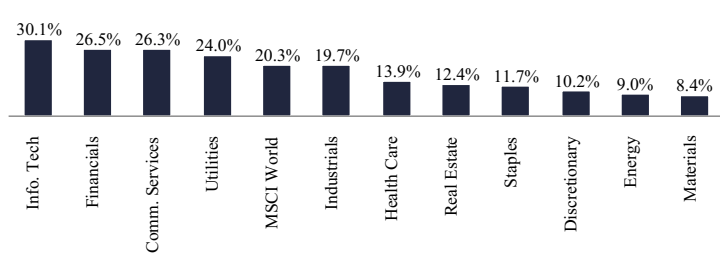


### MSCI WORLD INDEX SECTOR RETURNS

MONTH-TO-DATE, AS OF 10/18/24



YEAR-TO-DATE, AS OF 10/18/24



## ECONOMIC WATCH

Monday, October 21	Tuesday, October 22	Wednesday, October 23	Thursday, October 24	Friday, October 25	Critical Future Events
		US Existing Home Sales (Cons: 3.88M, Prior 3.86M)	US Manufacturing PMI (Cons: 47.5, Prior 47.3) US Services PMI (Cons: 55.0, Prior 55.2) US New Home Sales (Cons: 717K, Prior 716K)	US Durable Goods Orders MoM (Cons: -1.1%, Prior 0.0%)	BoJ Meeting – Oct 31 FOMC Meeting – Nov 7 BoE Meeting – Nov 7 ECB Meeting – Dec 12

Source: MSCI, 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.**

### Style Performance

US EQUITY SIZE & STYLE RETURNS

Month-to-Date (as of 10/18/24)			Year-to-Date			
Value	Core	Growth		Value	Core	Growth
1.99%	1.99%	1.99%	Large	19.00%	23.59%	27.03%
1.59%	2.18%	4.08%	Medium	16.91%	17.14%	17.52%
1.93%	2.10%	2.27%	Small	11.33%	13.50%	15.79%

MSCI WORLD SIZE & STYLE RETURNS

Month-to-Date (as of 10/18/24)			Year-to-Date			
Value	Core	Growth		Value	Core	Growth
1.04%	0.96%	0.89%	Large	18.03%	20.94%	23.56%
0.06%	0.21%	0.48%	Medium	14.39%	13.89%	13.27%
0.43%	0.29%	0.15%	Small	11.24%	11.34%	11.44%

US FIXED INCOME MATURITY AND QUALITY RETURNS

Month-to-Date (as of 10/18/24)			Year-to-Date			
Short	Intermed.	Long		Short	Intermed.	Long
-0.62%	-0.92%	-3.70%	Government	3.52%	3.23%	-1.38%
-0.37%	-0.66%	-2.30%	Corporate	4.98%	5.01%	2.13%
0.04%	-0.14%	-0.11%	High Yield	7.98%	7.88%	6.99%

EUROPEAN FIXED INCOME MATURITY AND QUALITY RETURNS

Month-to-Date (as of 10/18/24)			Year-to-Date			
Short	Intermed.	Long		Short	Intermed.	Long
0.11%	0.18%	0.57%	Government	2.61%	2.56%	1.50%
0.31%	0.51%	1.00%	Corporate	4.07%	4.74%	2.98%
0.51%			High Yield	6.82%		

**WEEKLY MARKET RECAP**

INDEX RETURNS				
	1 WEEK	MTD	QTD	YTD
<b>EQUITIES</b>				
S&P 500	0.87%	1.84%	1.84%	24.33%
DJ Industrial Average	0.98%	2.30%	2.30%	16.55%
Russell 2000	1.87%	2.10%	2.10%	13.50%
Russell Midcap	1.37%	2.18%	2.18%	17.14%
STOXX Europe 50 (€)	-0.34%	-0.22%	-0.22%	13.61%
STOXX Europe 600 (€)†	0.59%	0.46%	0.46%	12.23%
MSCI EAFE Small Cap	-0.16%	-3.33%	-3.33%	7.87%
FTSE 100 (£)	1.28%	1.55%	1.55%	11.55%
DAX (€)	1.46%	1.72%	1.72%	17.35%
FTSE MIB (€)	2.61%	3.16%	3.16%	21.00%
CAC 40 (€)†	0.49%	-0.27%	-0.27%	3.19%
SWISS MKT (CHF)	1.42%	1.30%	1.30%	14.28%
TOPIX (¥)	-0.64%	1.63%	1.63%	16.11%
Hang Seng (HKD)	-2.11%	-1.56%	-1.56%	27.22%
MSCI World	0.58%	0.86%	0.86%	20.30%
MSCI China Free†	-2.29%	-1.79%	-1.79%	25.66%
MSCI EAFE	-0.37%	-2.36%	-2.36%	10.82%
MSCI EM	-0.37%	-1.31%	-1.31%	15.71%
MSCI Brazil (BRL)	0.98%	-0.11%	-0.11%	-1.63%
MSCI India (INR)	-0.95%	-3.76%	-3.76%	21.91%
<b>FIXED INCOME</b>				
Bloomberg Aggregate	0.05%	-1.41%	-1.41%	2.98%
Bloomberg Euro Aggregate	0.11%	-2.45%	-2.45%	1.01%
Bloomberg US High Yield	0.34%	-0.13%	-0.13%	7.86%
Bloomberg Euro High Yield (€)	0.46%	0.51%	0.51%	6.82%
Bloomberg Muni Aggregate	0.23%	-0.34%	-0.34%	1.95%
Bloomberg TIPS	-0.08%	-0.91%	-0.91%	3.91%
JPM EMBI Gbl. Divers.	0.27%	-0.68%	-0.68%	7.90%
JPM GBI-EM Gbl. Divers.	-0.64%	-3.09%	-3.09%	1.70%
<b>OTHER</b>				
DJ US Real Estate	2.94%	0.07%	0.07%	13.79%
FTSE EPRA/NAREIT Dvlpd. Ex-US	-0.38%	-4.26%	-4.26%	4.00%
S&P GSCI	-4.86%	-0.12%	-0.12%	5.10%
Alerian MLP	-1.56%	-0.03%	-0.03%	18.52%
US Dollar Index	0.67%	2.94%	2.94%	2.38%
VIX	-11.88%	7.77%	7.77%	44.82%

COMMODITIES				
	10/18/24	09/30/24	06/30/24	12/31/23
WTI Oil (\$/barrel)	\$69.22	\$68.17	\$81.54	\$71.65
Brent Oil (\$/barrel)	\$73.06	\$71.77	\$86.41	\$77.04
Gold (\$/oz)	\$2754.30	\$2681.30	\$2385.60	\$2091.80
Natural Gas (\$/mmBtu)	\$2.26	\$2.92	\$2.60	\$2.51

CURRENCIES				
	10/18/24	09/30/24	06/30/24	12/31/23
Euro (\$/€)	1.0865	1.1133	1.0712	1.1041
Pound (\$/£)	1.3046	1.3376	1.2642	1.2746
Japanese Yen (¥/\$)	149.53	143.68	160.81	141.02
Swiss Franc (CHF/€)	0.9403	0.9426	0.9626	0.9289
Chinese Yuan Renminbi (CNY/\$)	7.1032	7.0206	7.1321	7.0842

RATES & SPREADS				
	10/18/24	09/30/24	06/30/24	12/31/23
<b>RATES</b>				
Secured Overnight Financing Rate *	4.85%	4.96%	5.33%	5.38%
US Treasuries 2-Year	3.95%	3.65%	4.72%	4.25%
ECB Depo Rate	4.00%	3.75%	3.50%	2.00%
US Treasuries 10-Year	4.07%	3.80%	4.34%	3.86%
US Treasury 2-10 Slope	0.12%	0.15%	-0.38%	-0.39%
German Bunds 2-Year	2.11%	2.07%	2.83%	2.40%
German Bunds 10-Year	2.18%	2.12%	2.50%	2.02%
Japanese Govt Bonds 10-Year	0.98%	0.86%	1.06%	0.61%
UK Gilts 10-Year	4.06%	4.00%	4.17%	3.54%
Swiss Govt Bonds 10-Year	0.41%	0.41%	0.60%	0.70%
French OATs 10-Year	2.90%	2.92%	3.30%	2.56%
Italian BTPs 10-Year	3.36%	3.45%	4.07%	3.70%
Spanish Bonos 10-Year	2.87%	2.93%	3.42%	2.99%
<b>SPREADS</b>				
HY Corp. Spread (bps)	285	300	311	323
Bank Loan Spread (bps) *	476	498	507	528
IG Corp. Spread (bps)	81	88	93	98
EMD Spread (bps)	395	420	444	438

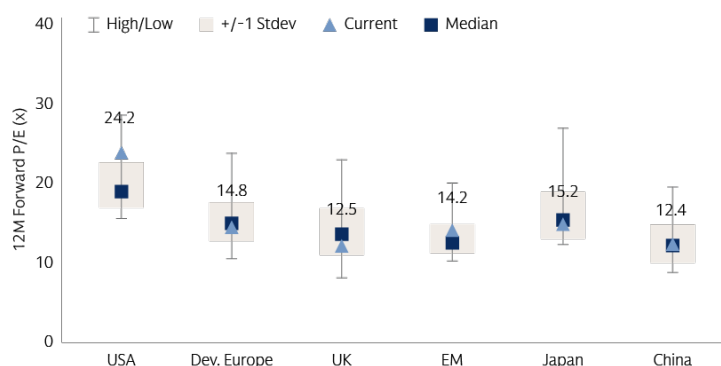
**Global Equity Valuations**


Chart Source: Goldman Sachs Asset Management and Bloomberg as of close of trading on September 30, 2024. Chart data shows next 12-month P/E ratio from October 2014 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: MSCI and 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:** Source: Goldman Sachs Global Investment Research and Goldman Sachs Asset Management. As October 16, 2024. Chart shows annual earnings growth for the Magnificent 7 companies and the remaining 493 companies in the S&P 500 index. Expected figures for 2024, 2025, and 2026 reflect average consensus estimates during those periods. Magnificent 7 refers to seven mega cap companies (META, AMZN, GOOGL, MSFT, AAPL, TSLA, and NVDA). The economic and market forecasts presented herein are for informational purposes as of the date of this presentation. There can be no assurance that the forecasts will be achieved. **Past performance does not predict future returns and does not guarantee future results, which may vary.**

**Page 1 Market Summary Notes:** "WTI" refers to West Texas Intermediate crude oil, a common US benchmark for oil prices. "Brent" refers to a global benchmark for oil prices worldwide. "Bbl" refers to barrel. "Oz" refers to ounce. "ECB" refers to European Central Bank.

**Page 1 Economic Summary Notes:** "GDP" refers to Gross Domestic Product. "GIR" refers to Goldman Sachs Global Investment Research. "ECB" refers to European Central Bank. "bps" refers to basis points. "BoE" refers to Bank of England. "pts" refers to points. "Our" refers to Goldman Sachs Asset Management

**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:** "PMI" refers to Purchasing Managers' Index. "MoM" refers to month-over-month. "BoJ" refers to Bank of Japan. "FOMC" refers to Federal Open Market Committee. "BoE" refers to Bank of England. "ECB" refers to European Central Bank.

**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.

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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 24 Emerging Markets (EM) 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. 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 **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 **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. It is not possible to invest in an unmanaged index. **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. **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 **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.