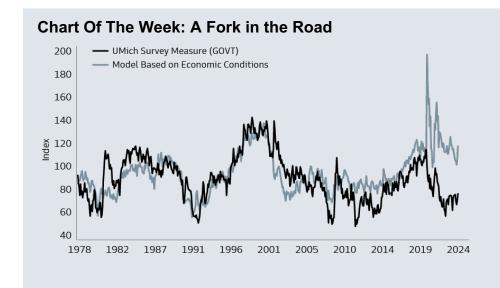
Week ending February 23, 2024

MARKET MONITOR



SENTIMENT

Many Americans seem to be judging the US economy more harshly than usual, and the gap between the perception of government economic policy and actual economic conditions is at its widest in decades. We believe that the lack of confidence in US economic policy has been underscored by rising debt levels, political gridlock, and a lasting impact on confidence from previously high inflation. Still, we expect the gap to close meaningfully by election day.

Source: Univ. of Michigan, GS Global Investment Research. As of January 1, 2024.

MARKET SUMMARY

GLOBAL EQUITIES: US equities moved higher last week on the back of strong 4Q 2024 earnings releases for the technology sector. The S&P 500 finished 1.68% higher after its best day in over a year last Thursday. Outside the US, the STOXX Europe 600 ended last week 1.20% higher and notched its own record high for the first time since January 2022, as services PMIs printed in expansionary territory for the first time in six months.

COMMODITIES: Oil prices fell last week as hawkish rhetoric from Fed Governor Waller signaled that rate cuts may be delayed beyond current market expectations. Ultimately, WTI and Brent crude closed lower at \$76.49.TK/bbl and \$81.62/bbl, respectively, as the American Petroleum Institute reported higher than expected crude inventories in the US. Meanwhile, gold prices rose to \$2049.40 troy/oz as gold purchases by global central banks have increased.

FIXED INCOME: Sovereign yields were little changed last week. In the US, the 2-Year and 10-Year US Treasury yields closed higher at 4.69% and lower at 4.26%, respectively, as the January FOMC Minutes had a slightly hawkish tilt. Across the pond, movements in the 10-Year German Bund and 10-Year UK Gilt yields were also modest, eventually closing the week lower at 2.36% and 4.04%, respectively.

FX: The US dollar slightly depreciated against a basket of currencies last week despite a hawkish US interest rate bias. Ultimately, the US dollar index closed –0.42% lower. Accordingly, the euro and pound strengthened against the greenback to \$1.0823 and \$1.2675, respectively. Finally, the Japanese yen held relatively steady, closing the week at ¥150.46, despite growing optimism that the BOJ will end its eight-year negative interest rate policy in April.

ECONOMIC SUMMARY

MONETARY POLICY: The January FOMC minutes revealed a hawkish tone as members of the Fed remain highly attentive to inflationary risks and expressed hesitancy to deliver rate cuts sooner than markets expect. Most participants warned against cutting rates too soon, while only a few participants expressed concern for holding a restrictive stance for too long. Although the minutes acknowledged major inflation progress over the past year and Fed members' expectations for inflation to fall further, the current momentum of US economic activity may increase inflation sensitivity to early rate cuts. GIR has updated their view and now expects the Fed to begin cutting rates in June of this year and end in 4Q 2025.

ACTIVITY: In the US, the Manufacturing PMI rose to a 17-month high in January, printing at 51.5. The above-consensus print was boosted largely by a strong increase in new orders. Meanwhile, the US Services PMI fell to a three-month low of 51.3, but remained in expansionary territory. In the Euro area, the composite flash PMI increased to 48.9 in February, above consensus expectations. This points toward an improvement in activity in the Euro area, fueled by the prospects of lower cost of living pressures and the anticipation of future rate cuts.

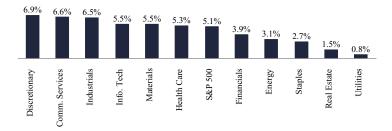
INFLATION: Euro area CPI for January lowered to 2.8% year-over-year, in line with consensus expectations. The gradual downward shift to the ECB's 2% target is building anticipation for rate cuts, though the central bank has reiterated its commitment to fighting inflation. GIR maintains their view that the ECB will begin cutting rates in April of this year.

HOUSING: US existing home sales increased 3.1% to 4.0 million for January on the back of lowering mortgage rates. Although home sales are still lower compared to January 2023, the recent easing in housing supply offers optimism for future home-buying.

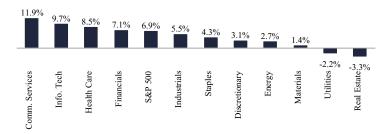
MARKET WATCH

S&P 500 INDEX SECTOR RETURNS

MONTH-TO-DATE, AS OF 02/23/24

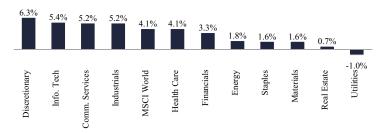


YEAR-TO-DATE, AS OF 02/23/24

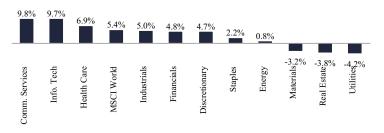


MSCI WORLD INDEX SECTOR RETURNS

MONTH-TO-DATE, AS OF 02/23/24



YEAR-TO-DATE, AS OF 02/23/24



Style Performance

US EQUITY SIZE & STYLE RETURNS

Month-to-Date		(as of 02/23/24)	Year-to-Date			
Value	Core	Growth		Value	Core	Growth
3.38%	5.13%	6.58%	Large	3.49%	6.60%	9.24%
3.73%	4.49%	6.32%	Medium	1.87%	3.00%	5.74%
1.82%	3.66%	5.56%	Small	-2.80%	-0.37%	2.17%

MSCI WORLD SIZE & STYLE RETURNS

Month-to-Date		(as of 02/23/24)	Year-to-Date			
Value	Core	Growth		Value	Core	Growth
2.60%	4.33%	5.86%	Large	3.21%	6.03%	8.57%
1.60%	2.87%	4.79%	Medium	0.35%	1.63%	3.57%
0.67%	2.28%	3.89%	Small	-2.03%	-0.55%	0.92%

US FIXED INCOME MATURITY AND QUALITY RETURNS

Month-to-Date		(as of 02/23/24)	Year-to-Date			
Short Intermed. Long			Short	Short Intermed. Long		
-0.89%	-1.20%	-2.58%	Government	-0.58%	-0.99%	-4.73%
-0.49%	-0.82%	-2.34%	Corporate	-0.10%	-0.63%	-3.19%
0.47%	0.27%	0.30%	High Yield	0.51%	0.26%	0.58%

EUROPEAN FIXED INCOME MATURITY AND QUALITY RETURNS

Month-to-Date		(as of 02/23/24)	Year-to-Date			
Short Intermed. Long			Short Intermed. Lo		Long	
-0.53%	-1.23%	-1.00%	Government	-0.48%	-1.51%	-2.33%
-0.28%	-0.81%	-0.81%	Corporate	0.01%	-0.68%	-1.33%
0.50%		High Yield	1.25%			

ECONOMIC WATCH

Monday, February 26					
New Home Sales (Cons:					
675K, Prior: 664K)					

Tuesday, February 27					
Core Durable Goods					
Orders (Prior: 0.6)					
CB Consumer Confidence					
(Cons: 114.0, Prior: 114.8)					

Wednesday, February 28
GDP QoQ (Cons: 3.3%,
Prior: 4.9%)

Thursday, February
Core PCE Price Index
YoY (Prior: 0.2%)
PCE Price Index YoY
(Prior: 2.6%)
Initial Jobless Claims
(Prior: 201K)

Euro area CPI YoY (Cons:
2.5%, Prior: 2.9%)
Euro area Unemployment
(Cons: 6.4%, Prior: 6.4%)
US ISM Manuf. PMI
(Cons: 49.1, Prior: 49.1)
I

ECB Meeting – Mar 7					
FOMC Meeting – Mar 20					
BoE Meeting – Mar 21					
BoJ Meeting – Apr 26					

Critical Future Events

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.

WEEKLY MARKET RECAP

INDEX RETURNS					
	1 WEEK	MTD	QTD	YTD	
EQUITIES					
S&P 500	1.68%	5.15%	6.91%	6.91%	
DJ Industrial Average	1.30%	2.75%	4.10%	4.10%	
Russell 2000	-0.77%	3.66%	-0.37%	-0.37%	
Russell Midcap	1.05%	4.49%	3.00%	3.00%	
STOXX Europe 50 (€)	2.24%	4.96%	8.07%	8.07%	
STOXX Europe 600 (€)†	1.20%	2.51%	4.00%	4.00%	
MSCI EAFE Small Cap	0.62%	0.02%	-1.62%	-1.62%	
FTSE 100 (£)	0.14%	1.38%	0.09%	0.09%	
DAX (€)	1.76%	3.05%	3.99%	3.99%	
FTSE MIB (€)	3.06%	6.37%	8.21%	8.21%	
CAC 40 (€)†	2.56%	4.05%	5.72%	5.72%	
SWISS MKT (CHF)	1.65%	1.44%	3.22%	3.22%	
TOPIX (¥) *	1.37%	4.30%	12.45%	12.45%	
Hang Seng (HKD)	2.36%	8.01%	-1.89%	-1.89%	
MSCI World	1.51%	4.14%	5.41%	5.41%	
MSCI China Free†	2.81%	10.08%	-0.39%	-0.39%	
MSCI EAFE	1.44%	1.91%	2.51%	2.51%	
MSCI EM	1.23%	5.47%	0.59%	0.59%	
MSCI Brazil (BRL)	0.69%	1.76%	-2.59%	-2.59%	
MSCI India (INR)	1.09%	3.67%	5.97%	5.97%	
FIXED INCOME					
Bloomberg Aggregate	0.25%	-1.50%	-1.77%	-1.77%	
Bloomberg Euro Aggregate	0.77%	-1.26%	-3.22%	-3.22%	
Bloomberg US High Yield	0.42%	0.27%	0.27%	0.27%	
Bloomberg Euro High Yield (€)	0.39%	0.50%	1.25%	1.25%	
Bloomberg Muni Aggregate	0.15%	-0.05%	-0.56%	-0.56%	
Bloomberg TIPS	0.07%	-1.48%	-1.33%	-1.33%	
JPM EMBI Glbl. Divers.	0.66%	0.57%	-0.45%	-0.45%	
JPM GBI-EM Glbl. Divers.	-0.03%	-0.88%	-2.39%	-2.39%	
OTHER					
DJ US Real Estate	0.62%	1.08%	-3.87%	-3.87%	
FTSE EPRA/NAREIT Dvlpd. Ex-US	-0.23%	-3.38%	-6.98%	-6.98%	
S&P GSCI	-1.33%	-0.48%	3.96%	3.96%	
Alerian MLP	2.68%	5.39%	10.06%	10.06%	
US Dollar Index	-0.42%	0.74%	2.69%	2.69%	
VIX	-3.44%	-4.18%	10.44%	10.44%	

COMMODITIES						
	02/23/24	01/31/24	12/31/23	12/31/22		
WTI Oil (\$/barrel)	\$76.49	\$75.85	\$71.65	\$80.26		
Brent Oil (\$/barrel)	\$81.62	\$81.71	\$77.04	\$85.91		
Gold (\$/oz)	\$2049.40	\$2067.40	\$2091.80	\$1842.20		
Natural Gas (\$/mmBtu)	\$1.60	\$2.10	\$2.51	\$4.47		

CURRENCIES					
	02/23/24	01/31/24	12/31/23	12/31/22	
Euro (\$/€)	1.0823	1.0839	1.1041	1.0701	
Pound (\$/£)	1.2675	1.2710	1.2746	1.2063	
Japanese Yen (¥/\$)	150.46	146.37	141.02	130.97	
Swiss Franc (CHF/€)	0.9538	0.9325	0.9289	0.9890	
Chinese Yuan Renminbi (CNY/\$)	7.1012	7.1084	7.0842	6.9225	

RATES & SPREADS				
	02/23/24	01/31/24	12/31/23	12/31/22
RATES				
Fed Funds Target	5.50%	5.50%	5.50%	4.50%
Secured Overnight Financing Rate *	5.30%	5.32%	5.38%	4.30%
ECB Depo Rate	4.00%	3.75%	3.50%	2.00%
3-Month US Dollar Libor	5.59%	5.58%	5.59%	4.77%
US Treasuries 2-Year	4.69%	4.23%	4.25%	4.41%
US Treasuries 10-Year	4.26%	3.97%	3.86%	3.84%
US Treasury 2-10 Slope	-0.43%	-0.26%	-0.39%	-0.57%
German Bunds 2-Year	2.85%	2.43%	2.40%	2.76%
German Bunds 10-Year	2.36%	2.17%	2.02%	2.57%
Japanese Govt Bonds 10-Year	0.72%	0.73%	0.61%	0.42%
UK Gilts 10-Year	4.04%	3.79%	3.54%	3.67%
Swiss Govt Bonds 10-Year	0.84%	0.84%	0.70%	1.62%
French OATs 10-Year	2.83%	2.66%	2.56%	3.12%
Italian BTPs 10-Year	3.80%	3.73%	3.70%	4.71%
Spanish Bonos 10-Year	3.25%	3.09%	2.99%	3.66%
SPREADS				
HY Corp. Spread (bps)	308	343	323	468
Bank Loan Spread (bps) *	524	529	528	652
IG Corp. Spread (bps)	90	95	98	130
EMD Spread (bps)	424	452	438	500

Global Equity Valuations



Chart Source: Goldman Sachs Asset Management and Bloomberg as of close of trading on January 31, 2024. Chart data shows next 12-month P/E ratio from February 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: University of Michigan and GS Global Investment Research. As of January 1, 2024. Chart shows the University of Michigan Consumer Sentiment report for US Government Economic policy, overlayed with a model for US economic conditions. Model for US economic conditions is built by GS Global Investment Research team based on several economic factors, including real wage growth, consumption, unemployment, and GDP growth. Past performance does not guarantee future results, which may vary. For illustrative purposes only.

Page 1 Market Summary Notes: "4Q2024" refers to the 4th quarter of 2024. "FOMC" refers to the Federal Open Market Committee. "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. "FOMC" refers to the Federal Open Market Committee. "BOJ" refers to Bank of Japan.

Page 1 Economic Summary Notes: "FOMC" refers to the Federal Open Market Committee. "PMI" refers to a purchasing managers index. "GIR" refers to Goldman Sachs Global Investment Research. "1Q2024" refers to the 1st quarter of 2025. "CPI" refers to a consumer price index. "PPI" refers to a producer price index. "PP" refers to percentage points. "ECB" refers to the European Central Bank. "BoE" refers to the Bank of England. "GIR" refers to Goldman Sachs Global Investment Research.

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: "CB" refers to Conference Board. "GDP" refers to Gross Domestic Product. "QoQ" refers to quarter-over-quarter. "PCE" refers to Personal Consumption Expenditures. "YoY" refers to year-over-year. "PMI" refers to a purchasing managers index. "CPI" refers to a consumer price index. "Manuf." refers to manufacturing. "ISM" refers to Institute for Supply Management. "FOMC" refers to the Federal Open Market Committee. "ECB" refers to the European Central Bank. "BoE" refers to the Bank of England. "BoJ" refers to the Bank of Japan.

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 priceweighted 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 floatadjusted 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 floatadjusted 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 mortgagebacked 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 noninvestment 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 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. $\underline{\textbf{Rates:}}$ 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 a 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.

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