

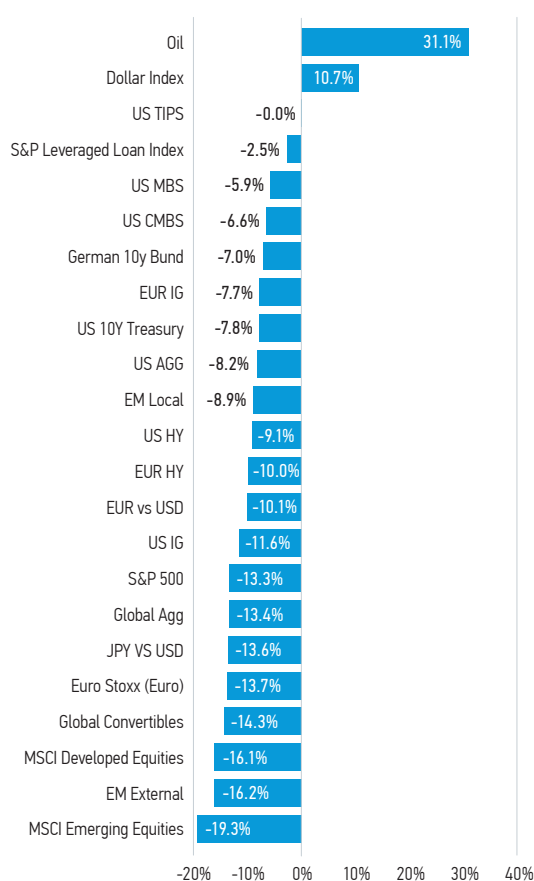
Oh no, it's too hot, no wait, it's too cold, no, it's actually too hot!

GLOBAL FIXED INCOME TEAM | MACRO INSIGHT | AUGUST 2022

After a horrendous June, bond and credit markets reversed course dramatically in July, generating exceptionally strong performance while also being the first positive return month of the year! Given the situation the US and global economy finds itself in, this was unexpected to say the least. Indeed, financial market performance has not been this volatile in a long, long time. The narrative of a hawkish US Federal Reserve (Fed) and high and stubborn inflation (a too hot economy) was the story until mid-June. By the end of June, recession fears (economy too cold) took hold, driving yields and, somewhat surprisingly, credit spreads lower. US Treasury 10-year yields fell 36 basis points (bps) on the month, and a whopping 85 bps from their peak on June 14th. Inflation expectations fell sharply as did real interest rates as markets priced in Fed success of achieving their long-term inflation objective of 2%. European and other bond markets had equivalent, if not larger, rallies. Indeed, on top of the fall in government bond yields, credit spreads tightened meaningfully from their June levels, generating even higher returns. For example, the US high yield index tightened 100 bps (with yields falling 132 bps, generating a return over 6%) while Euro HY spreads tightened 62 bps. Emerging markets also had spots of robust performance, but external markets generally underperformed developed market governments and corporates. Just as all things sold off in June, essentially everything rallied in July. Even the US dollar, while not exactly weak in July, did sell off against a variety of currencies, after being somewhat impregnable previously.¹

What caused such a turnaround? Bad news. Economic data, particularly on the goods/industrial production side of the economy, was weak while also surprising to the downside. Whether it was survey data (business confidence PMIs,) or GDP data (US GDP contracted in the first half of the year), economic indicators increasingly

DISPLAY 1
Asset Performance Year-to-Date



Note: USD-based performance. Source: Bloomberg. Data as of July 31, 2022. The indexes are provided for illustrative purposes only and are not meant to depict the performance of a specific investment. **Past performance is no guarantee of future results.** See pages 6-7 for index definitions.

¹ Source: Bloomberg. Data as of July 31, 2022.

The views and opinions expressed are those of the Portfolio Management team as of August 2022 and are subject to change based on market, economic and other conditions. **Past performance is not indicative of future results.**

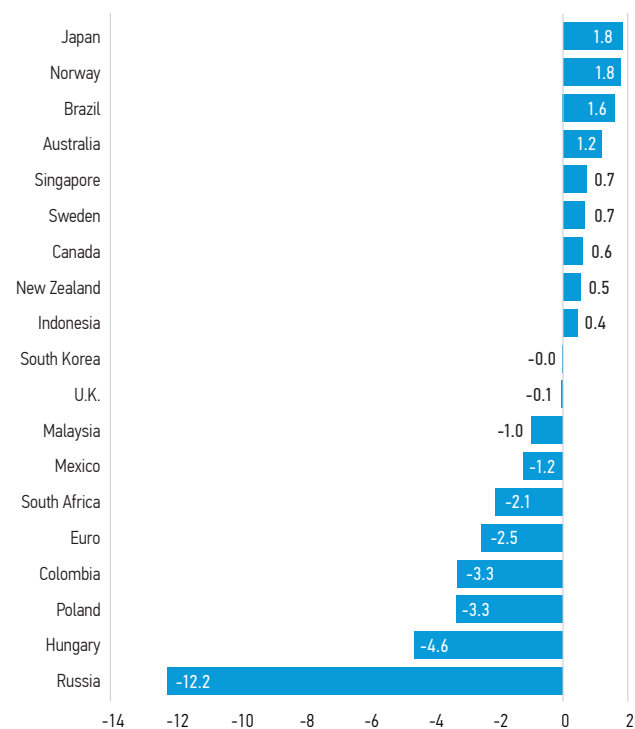
pointed to a looming recession in most economies outside of Asia. While not a certainty, probabilities moved well past 50%. Although one might think this would be bad for equities and credit, markets took it positively for two reasons. The first is the expected path of short-term rates as set by central banks was adjusted meaningfully lower, e.g., less rate hikes were expected. In the Eurozone this adjustment reached 100 bps of rate hikes priced out of the bond market. While economic data was weak, the expectation (hope?) that central banks would “pivot” to a more dovish policy stance buoyed the market. To see how dramatic this was, German 2-year government bond yields fell. Secondly, the velocity of the sell-off in rates and spreads was extreme in the relatively short period it occurred in the run up to the Fed June rate hike. US and European high yield spreads (as well as Euro investment grade spreads) moved into recession territory. Although not priced for an extreme recession like 2008 or 2020, high yield spreads did move to levels associated with economic downturns. The combination of these two factors was the primary driver responsible for the dramatic turnaround in asset prices in July. Falling commodity prices also helped.²

Unfortunately, volatility is not likely to abate soon. US labor market data remains very strong. Witness July payrolls released August 5: it was gangbusters showing further tightening of the labor market rather than loosening, and further increases in wage growth rather than amelioration. The unemployment rate is now at its lowest level since the 1960s! Commodity prices are

coming down (except for Europeans), particularly energy and food. Unfortunately, for Europeans, inflation also remains under threat of further increases given its vulnerability to disruption in energy supplies.³ Whether or not this is the last gasp of US labor market strength, or the last gasp of inflation, markets should be prepared for more gyrations as all market forecasts this year have proven to be wide of the mark. Hot to cold to hot again?

DISPLAY 2
Currency Monthly Changes Versus U.S. Dollar

(+ = appreciation)



Note: Positive change means appreciation of the currency against the USD. Source: Bloomberg. Data as of July 31, 2022.

DISPLAY 3
Major Monthly Changes in 10-Year Yields and Spreads

| COUNTRY | 10-YR YIELD LEVEL (%) | MONTH CHANGE (BPS) | 10-YR SPREAD (BPS) | MONTH CHANGE (BPS) |
|-----------------------------------|------------------------------|-------------------------|-------------------------|-------------------------|
| (Spread over USTs) | | | | |
| United States | 2.65 | -36 | | |
| United Kingdom | 1.86 | -37 | -78 | 0 |
| Germany | 0.82 | -52 | -183 | -15 |
| Japan | 0.19 | -5 | -246 | +32 |
| Australia | 3.06 | -60 | 41 | -24 |
| Canada | 2.61 | -61 | -4 | -25 |
| New Zealand | 3.42 | -45 | 77 | -8 |
| EUROPE (Spread over Bunds) | | | | |
| France | 1.38 | -54 | 56 | -2 |
| Greece | 2.96 | -66 | 214 | -14 |
| Italy | 3.02 | -24 | 221 | +28 |
| Portugal | 1.84 | -57 | 103 | -5 |
| Spain | 1.92 | -51 | 110 | +1 |
| EM | | | | |
| | INDEX LOCAL YIELD (%) | MTD CHANGE (BPS) | USD SPREAD (BPS) | MTD CHANGE (BPS) |
| EM External Spreads | | | 323 | +3 |
| EM Corporate Spreads | | | 266 | +8 |
| EM Local Yields | | +32 | | |
| Brazil | 13.16 | -8 | 305 | -59 |
| Colombia | 12.02 | +63 | 387 | -49 |
| Hungary | 8.93 | +82 | 190 | -31 |
| Indonesia | 6.99 | -4 | 147 | -27 |
| Malaysia | 4.06 | -31 | 60 | -6 |
| Mexico | 8.73 | -40 | 248 | -18 |
| Peru | 8.08 | +37 | 169 | -20 |
| Philippines | 6.52 | +4 | 110 | -36 |
| Poland | 5.85 | -127 | 20 | -74 |
| Russia | 56.73 | -7931 | | |
| South Africa | 10.84 | -22 | 457 | -61 |
| Turkey | 17.96 | -277 | 723 | +8 |
| Venezuela | - | - | 34872 | +4418 |
| CREDIT | | | | |
| | | | SPREAD (BPS) | MTD CHANGE (BPS) |
| U.S. IG | | | 144 | -11 |
| EUR IG | | | 187 | -31 |
| U.S. HY | | | 469 | -100 |
| EUR HY | | | 579 | -62 |
| SECURITIZED | | | | |
| Agency MBS | | | 115 | -20 |
| U.S. BBB CMBS | | | 400 | +8 |

Positive Neutral Negative Source: Bloomberg, JPMorgan. Data as of July 31, 2022.

² Source: Bloomberg Data, as of July 31, 2022. ³ Source: Bloomberg Data, as of July 31, 2022.

The views and opinions expressed are those of the Portfolio Management team as of August 2022 and are subject to change based on market, economic and other conditions. **Past performance is not indicative of future results.**

Fixed Income Outlook

The pandemic and its repercussions both in terms of policy response and behavior have been unprecedented. Therefore, historical playbooks are of limited use. For example, the US economy is in a recession as measured by two negative quarterly GDP results. Additionally, household and business confidence are near historical lows on several measures. But, at the same time, the unemployment rate continues to fall as jobs are created at a pace normally associated with a booming economy.

So, what is the truth? There is no doubt economic growth has decelerated, particularly goods production. The slowdown was almost preordained given how above trend growth got to in 2021 AND the residual supply chain disruptions which continue to bedevil the global economy. Core inflation in almost all countries remains unacceptably high and shows no signs of significant deceleration, although it might have peaked. The truth is imbalances in labor markets and goods markets continue. There appears to be excess employment in some industries (e.g., tech), underemployment in services (travel & leisure), and potentially goods markets struggling with supply chains. This creates a very muddled picture. In the US for example, initial jobless claims released on August 4th hit its highest level in six months, suggesting a cooling of the labor market, but the employment report on August 5th was strong across the board. The job openings to unemployed ratio is also coming down, but still shows in absolute terms excess demand for labor. The employment report and strong wage growth trumps jobless claims, suggesting stubborn inflation unless the Fed sticks to its tightening plans. The US economy exhibits somewhat schizophrenic behavior: some sectors are struggling while others are recovering (and growing nicely). Continue to expect conflicting signals. Growth should be better in the second half of the year but will not be strong. It is too soon to be confident that the economy will cool enough, and unemployment will rise enough to bring inflation down to acceptable levels in the time frame the market expects.

What this suggests is that it is premature to signal the all clear on the bond bear market, although we are skeptical, we will achieve new highs in long-term yields. In particular, the recent rally in US Treasury 10-year yields to almost 2.5% looks too aggressive and may constitute the floor for yields in the months ahead. In other words, yields should continue to back up. Yield curves should continue to flatten and could become meaningfully inverted if inflation remains stubborn.

The good news is we do not see the start of a new leg of an extended bond bear market. The contours of US Treasury yields appear to be set: the peak in 10-year yields was likely hit in mid-June when the Fed surprised with a 75-bps hike and the lows set prior to July's employment report released in August constitute the bottom of the range: 2.5% - 3.25%. Similar calculations apply to most other developed market bond markets, with for example, German 10-year government yields likely to be in a 0.75% to 1.25% range near term. Some countries faced with more downside economic risk like the UK, New Zealand and Australia are likely to see less aggressive yield rises.

While near term volatility is likely to persist as the too cold vs too hot debate continues, corporate bond markets are likely to stay in a range. Uncertainty over the macro backdrop and corporate performance supports a bias to sell credit into rallies and move up in credit quality (hedging the risk central banks WILL cause a recession to bring down inflation). Spreads are generally above their long-run averages, suggesting a somewhat undervalued market with lower risk of a recession this year but higher next year, at least in the US. Euro investment grade (IG) looks somewhat more attractive than US IG given wide swap spreads and an FX hedging advantage. On the other hand, much higher probability of recession in Europe makes European high yield corporates and securitized credit less attractive. Securitized credit did not benefit nearly as much from the July rally as did corporate credit.

Emerging Markets did selectively benefit from the July rally but remain undervalued (in general) and cheaper than developed market corporate credit. Many EM high yield issuers continue to trade at high yields and wide spreads. However, fears of US inflation (bad) and/or US recession (also bad) is inhibiting flows into the asset class. With yields so much higher on DM government bonds and credit in general, investors do not need to allocate as much to EM to generate attractive yields. That said, inflationary pressures remain and corresponding central bank reactions for both emerging and developed markets will be important factors. Commodity prices will continue to have a large impact on the asset class as food and energy prices remain elevated, even if they are beginning to fall. Differentiation among countries and credits will be pivotal for uncovering value.

Portfolio positioning remains cautious. Valuations are selectively attractive, opportunistic buying prevails, but risks remain, mostly on the inflation front and central bank reactions to it.

MONTHLY REVIEW

OUTLOOK

**Developed
Market Rate/
Foreign
Currency**

Developed market rates moved lower during July, as rates broadly rallied as recession concerns remained in focus. For the most part, economic data and indicators continue to point to a likely slowdown; however, the severity and timetable remains unclear. Central bank decisions were again the focus for the month, with central banks predominately adopting a front-loading approach to tightening monetary policy.⁴

We believe that central banks will struggle to effectively lower inflation using their current tools and strategy. As a result, we still see risks that short term rates will go higher as the Fed will be forced to do more to combat inflation. The situation in Europe is especially difficult given the issues with food and energy prices. We see developed market rates remaining volatile given the uncertainty. As the Bank of Japan (BoJ) remains stubbornly accommodative, we still believe that Japanese rates could rise as the BoJ will have to similarly normalize policy. Regarding foreign exchange, the US dollar is likely to remain a beneficiary of tighter Fed policy and growing global growth concerns. Other than that, we do not have any significant conviction regarding FX positions.

**Emerging
Market Rate/
Foreign
Currency**

Emerging markets debt (EMD) performance turned positive following a sell-off that lasted for most of the first half of 2022. After a further sell-off in early July, rates, currencies, and credit all strongly rallied during the second half of the month. The macroeconomic environment continues to be challenging but following particularly poor performance in May and June performance rebounded in July. The three major EMD indices were all positive for the month.⁵

Valuations for local rates and the credit segments of emerging markets debt appear to be attractive. The macroeconomic environment continues to be challenging. Signs that the technical pressure on EMD from large outflows may be easing is an additional reason for optimism looking forward. That said, inflationary pressures remain and corresponding central bank reactions for both emerging and developed markets will be important factors. Commodity prices will continue to have a large impact on the asset class as food and energy prices remain elevated. Differentiation among countries and credits will be pivotal for uncovering value.

⁴ Source: Bloomberg. Data as of July 31, 2022.

⁵ Source: Bloomberg. Data as of July 31, 2022. EM corporates represented by **The JP Morgan CEMBI Broad Diversified Index**.

The views and opinions expressed are those of the Portfolio Management team as of August 2022 and are subject to change based on market, economic and other conditions. **Past performance is not indicative of future results.**

MONTHLY REVIEW

OUTLOOK

**Corporate
Credit**

IG corporate spreads rallied in July. Euro IG corporate spreads tightened as the market rebounded from the June credit spread widen. US credit underperformed Euro but tightened as well. One notable feature of the rally in credit spreads in July was the lack of compression with both A and BBB tighter on the month in contrast to the widening of June.⁶

The high yield market posted its strongest one-month return since 2009, nearly offsetting the June sell-off. Softening rhetoric from the US Fed and a batch of earnings which exceeded conservative expectations prompted demand for high yield credit amidst starting average spreads that appeared attractive from a longer-term perspective. The top performing sectors for the month were other financial, communications and consumer cyclical.⁷

Global convertibles had the first monthly gain of the year in July as investors began to bet that inflation and recession fears are already priced into markets.⁸

The senior corporate loan market rebounded sharply in July, paring the losses experienced in May and June.⁹

Looking forward the outlook is little changed. We see spreads offering attractive valuations that look inconsistent with the fundamentals we are seeing at the corporate level. Potential catalysts for a rally include second quarter reporting that confirms issuer performance is stronger than market pricing suggests or a change in macro sentiment where central banks pivot to a more balanced policy targeting both inflation and growth. In addition, a change to the technical would be impactful with market liquidity low at these elevated spread levels relative to history.

We remain cautious on the US high yield market as there is little to suggest the supportive backdrop experienced in July is sustainable and we expect volatility to increase over the balance of the third quarter. We have a bias toward conservatism. We are inclined to reduce exposure to cyclicals and segments exhibiting asymmetric risk/return characteristics and to add exposure to higher-conviction ideas that have experienced excessive technical pressure.

We remain constructive on the prospects for the loan market and believe this asset class is well positioned heading into the second half of the year. Despite our ongoing conviction, the outlook is certainly clouded by a growing number of question marks compared with just a quarter or two ago.

**Securitized
Products**

Securitized spread movement was mixed as agency MBS spreads tightened materially, while most credit spreads widened during the month.

Our fundamental credit outlook remains positive, and we believe credit spreads now offer attractive risk premiums for risk. Credit spreads for many securitized sectors have returned to levels last seen at the depths of the pandemic, but credit conditions are materially better today.

⁶ Source: Bloomberg Indices: U.S. Corporate Index and the European Aggregate Corporate Index. Data as of July 31, 2022.

⁷ Source: Bloomberg US Corporate High Yield Index. Data as of July 31, 2022.

⁹ Source: S&P/LSTA Leveraged Loan Index. Data as of July 31, 2022.

⁸ Source: Refinitiv Global Convertibles Focus Index. Data as of July 31, 2022.

Risk Considerations

Diversification neither assures a profit nor guarantees against loss in a declining market.

There is no assurance that a portfolio will achieve its investment objective. Portfolios are subject to **market risk**, which is the possibility that the market values of securities owned by the portfolio will decline and that the value of portfolio shares may therefore be less than what you paid for them. Market values can change daily due to economic and other events (e.g. natural disasters, health crises, terrorism, conflicts and social unrest) that affect markets, countries, companies or governments. It is difficult to predict the timing, duration, and potential adverse effects (e.g. portfolio liquidity) of events. Accordingly, you can lose money investing in a portfolio.

Fixed-income securities are subject to the ability of an issuer to make timely principal and interest payments (credit risk), changes in interest rates (interest rate risk), the creditworthiness of the issuer and general market liquidity (market risk). In a rising interest-rate environment, bond prices may fall and may result in periods of volatility and increased portfolio redemptions. In a declining interest-rate environment, the portfolio may generate less income. **Longer-term securities** may be more sensitive to interest rate changes.

Certain **US government securities** purchased by the strategy, such as those issued by Fannie Mae and Freddie Mac, are not backed by the full faith and credit of the US. It is possible that these issuers will not have the funds to meet their payment obligations in the future. **Public bank loans** are subject to liquidity risk and the credit risks of lower-rated securities. **High-yield securities (junk bonds)** are lower-rated securities that may have a higher degree of credit and liquidity risk. **Sovereign debt securities** are subject to default risk. **Mortgage- and asset-backed securities** are sensitive to early prepayment risk and a higher risk of default, and may be hard to value and difficult to sell (**liquidity risk**). They are also subject to credit, market and interest rate risks. The **currency market** is highly volatile. Prices in these markets are influenced by, among other things, changing supply and demand for a particular currency; trade; fiscal, money and domestic or foreign exchange control programs and policies; and changes in domestic and foreign interest rates. Investments in **foreign markets** entail special risks such as currency, political, economic and market risks. The risks of investing in **emerging market** countries are greater than the risks generally associated with foreign investments. **Derivative instruments** may disproportionately increase losses and have a significant impact on performance. They also may be subject to counterparty, liquidity, valuation, and correlation and market risks. **Restricted and illiquid securities** may be more difficult to sell and value than publicly traded securities (liquidity risk). Due to the possibility that prepayments will alter the cash flows on **collateralized mortgage obligations (CMOs)**, it is not possible to determine in advance their final maturity date or average life. In addition, if the collateral securing the CMOs or any third-party guarantees are insufficient to make payments, the portfolio could sustain a loss.

DEFINITIONS

Basis point: One basis point = 0.01%.

INDEX DEFINITIONS

The indexes shown in this report are not meant to depict the performance of any specific investment, and the indexes shown do not include any expenses, fees or sales charges, which would lower performance. The indexes shown are unmanaged and should not be considered an investment. It is not possible to invest directly in an index.

"Bloomberg®" and the Bloomberg Index/Indices used are service marks of Bloomberg Finance L.P. and its affiliates, and have been licensed for use for certain purposes by Morgan Stanley Investment Management (MSIM). Bloomberg is not affiliated with MSIM, does not approve, endorse, review, or recommend any product, and does not guarantee the timeliness, accuracy, or completeness of any data or information relating to any product.

The **Bloomberg Euro Aggregate Corporate Index (Bloomberg Euro IG Corporate)** is an index designed to reflect the performance of the euro-denominated investment-grade corporate bond market.

The **Bloomberg Global Aggregate Corporate Index** is the corporate component of the Bloomberg Global Aggregate index, which provides a broad-based measure of the global investment-grade fixed income markets.

The **Bloomberg US Corporate High Yield Index** measures the market of USD-denominated, non-investment grade, fixed-rate, taxable corporate bonds. Securities are classified as high yield if the middle rating of Moody's, Fitch, and S&P is Ba1/BB+/BB+ or below. The index excludes emerging market debt.

The **Bloomberg US Corporate Index** is a broad-based benchmark that measures the investment grade, fixed-rate, taxable, corporate bond market.

The **Bloomberg US Mortgage Backed Securities (MBS) Index** tracks agency mortgage-backed pass-through securities (both fixed-rate and hybrid ARM)

guaranteed by Ginnie Mae (GNMA), Fannie Mae (FNMA) and Freddie Mac (FHLMC). The index is constructed by grouping individual TBA-deliverable MBS pools into aggregates or generics based on program, coupon and vintage. Introduced in 1985, the GNMA, FHLMC and FNMA fixed-rate indexes for 30- and 15-year securities were backdated to January 1976, May 1977 and November 1982, respectively. In April 2007, agency hybrid adjustable-rate mortgage (ARM) pass-through securities were added to the index.

Consumer Price Index (CPI) is a measure that examines the weighted average of prices of a basket of consumer goods and services, such as transportation, food and medical care.

Euro vs. USD—Euro total return versus US dollar.

German 10YR bonds—Germany Benchmark 10-Year Datastream Government Index; **Japan 10YR government bonds**—Japan Benchmark 10-Year Datastream Government Index; and **10YR US Treasury**—US Benchmark 10-Year Datastream Government Index.

The **ICE BofAML European Currency High-Yield Constrained Index (ICE BofAML Euro HY constrained)** is designed to track the performance of euro- and British pound sterling-denominated below investment-grade corporate debt publicly issued in the eurobond, sterling

The **ICE BofAML US Mortgage-Backed Securities (ICE BofAML US Mortgage Master) Index** tracks the performance of US dollar-denominated, fixed-rate and hybrid residential mortgage pass-through securities publicly issued by US agencies in the US domestic market.

The **ICE BofAML US High Yield Master II Constrained Index (ICE BofAML US High Yield)** is a market value-weighted index of all domestic and Yankee high-yield bonds, including deferred-interest bonds and payment-in-kind securities. Its securities have maturities of one year or more and a credit rating lower than BBB-/Baa3, but are not in default.

The views and opinions expressed are those of the Portfolio Management team as of August 2022 and are subject to change based on market, economic and other conditions. **Past performance is not indicative of future results.**

The **ISM Manufacturing Index** is based on surveys of more than 300 manufacturing firms by the Institute of Supply Management. The ISM Manufacturing Index monitors employment, production inventories, new orders and supplier deliveries. A composite diffusion index is created that monitors conditions in national manufacturing based on the data from these surveys.

Italy 10-Year Government Bonds—Italy Benchmark 10-Year Datastream Government Index.

The **JP Morgan CEMBI Broad Diversified Index** is a global, liquid corporate emerging markets benchmark that tracks US-denominated corporate bonds issued by emerging markets entities.

The **JPMorgan Government Bond Index—emerging markets (JPM local EM debt)** tracks local currency bonds issued by emerging market governments. The index is positioned as the investable benchmark that includes only those countries that are accessible by most of the international investor base (excludes China and India as of September 2013).

The **JPMorgan Government Bond Index Emerging Markets (JPM External EM Debt)** tracks local currency bonds issued by emerging market governments. The index is positioned as the investable benchmark that includes only those countries that are accessible by most of the international investor base (excludes China and India as of September 2013).

The **JP Morgan Emerging Markets Bond Index Global (EMBI Global)** tracks total returns for traded external debt instruments in the emerging markets and is an expanded version of the EMBI+. As with the EMBI+, the EMBI Global includes US dollar-denominated Brady bonds, loans and eurobonds with an outstanding face value of at least \$500 million.

The **JP Morgan GBI-EM Global Diversified Index** is a market-capitalization weighted, liquid global benchmark for US-dollar corporate emerging market bonds representing Asia, Latin America, Europe and the Middle East/Africa.

JPY vs. USD—Japanese yen total return versus US dollar.

The **Nikkei 225 Index (Japan Nikkei 225)** is a price-weighted index of Japan's top 225 blue-chip companies on the Tokyo Stock Exchange.

The **MSCI AC Asia ex-Japan Index (MSCI Asia ex-Japan)** captures large- and mid-cap representation across two of three developed markets countries (excluding Japan) and eight emerging markets countries in Asia.

The **MSCI All Country World Index (ACWI, MSCI global equities)** is a free float-adjusted market capitalization weighted index designed to measure the equity market performance of developed and emerging markets. The term "free float" represents the portion of shares outstanding that are deemed to be available for purchase in the public equity markets by investors. The performance of the Index is listed in US dollars and assumes reinvestment of net dividends.

The **MSCI Emerging Markets Index (MSCI emerging equities)** captures large- and mid-cap representation across 23 emerging markets (EM) countries.

The **MSCI World Index (MSCI developed equities)** captures large and mid-cap representation across 23 developed market (DM) countries.

Purchasing Managers Index (PMI) is an indicator of the economic health of the manufacturing sector.

The **Refinitiv Convertible Global Focus USD Hedged Index** is a market weighted index with a minimum size for inclusion of \$500 million (US), 200 million (Europe), 22 billion Yen, and \$275 million (Other) of Convertible Bonds with an Equity Link.

The **Russell 2000® Index** is an index that measures the performance of the 2,000 smallest companies in the Russell 3000 Index.

The **S&P 500® Index (US S&P 500)** measures the performance of the large-cap segment of the US equities market, covering approximately 75 percent of the US equities market. The index includes 500 leading companies in leading industries of the US economy.

S&P CoreLogic Case-Shiller US National Home Price NSA Index seeks to measure the value of residential real estate in 20 major US metropolitan areas: Atlanta, Boston, Charlotte, Chicago, Cleveland, Dallas, Denver, Detroit, Las Vegas, Los Angeles, Miami, Minneapolis, New York, Phoenix, Portland, San Diego, San Francisco, Seattle, Tampa and Washington, D.C.

The **S&P/LSTA US Leveraged Loan 100 Index (S&P/LSTA Leveraged Loan Index)** is designed to reflect the performance of the largest facilities in the leveraged loan market.

The **S&P GSCI Copper Index (Copper)**, a sub-index of the S&P GSCI, provides investors with a reliable and publicly available benchmark for investment performance in the copper commodity market.

The **S&P GSCI Softs (GSCI soft commodities) Index** is a sub-index of the S&P GSCI that measures the performance of only the soft commodities, weighted on a world production basis. In 2012, the S&P GSCI Softs Index included the following commodities: coffee, sugar, cocoa and cotton.

Spain 10-Year Government Bonds—Spain Benchmark 10-Year Datastream Government Index.

The **Thomson Reuters Convertible Global Focus USD Hedged Index** is a market weighted index with a minimum size for inclusion of \$500 million (US), 200 million euro (Europe), 22 billion yen, and \$275 million (Other) of convertible bonds with an equity link.

U.K. 10YR government bonds—U.K. Benchmark 10-Year Datastream Government Index. For the following Datastream government bond indexes, benchmark indexes are based on single bonds. The bond chosen for each series is the most representative bond available for the given maturity band at each point in time. Benchmarks are selected according to the accepted conventions within each market. Generally, the benchmark bond is the latest issue within the given maturity band; consideration is also given to yield, liquidity, issue size and coupon.

The **US Dollar Index (DXY)** is an index of the value of the United States dollar relative to a basket of foreign currencies, often referred to as a basket of US trade partners' currencies.

The **Chicago Board Options Exchange (CBOE) Market Volatility (VIX) Index** shows the market's expectation of 30-day volatility.

There is no guarantee that any investment strategy will work under all market conditions, and each investor should evaluate their ability to invest for the long-term, especially during periods of downturn in the market.

A separately managed account may not be appropriate for all investors. Separate accounts managed according to the particular strategy may include securities that may not necessarily track the performance of a particular index. Please consider the investment objectives, risks and fees of the Strategy carefully before investing. A minimum asset level is required. For important information about the investment managers, please refer to Form ADV Part 2.

The views and opinions and/or analysis expressed are those of the author or the investment team as of the date of preparation of this material and are subject to change at any time without notice due to market or economic conditions and may not necessarily come to pass. Furthermore, the views will not be updated or otherwise revised to reflect information that subsequently becomes available or circumstances existing, or changes occurring, after the date of publication. The views expressed do not reflect the opinions of all investment personnel at Morgan Stanley Investment Management (MSIM) and its subsidiaries and affiliates (collectively "the Firm") and may not be reflected in all the strategies and products that the Firm offers.

Forecasts and/or estimates provided herein are subject to change and may not actually come to pass. Information regarding expected market returns and market outlooks is based on the research, analysis and opinions of the authors or the investment team. These conclusions are speculative in nature, may not come to pass and are not intended to predict the future performance of any specific strategy or product the Firm offers. Future results may differ significantly depending on factors such as changes in securities or financial markets or general economic conditions.

This material has been prepared on the basis of publicly available information, internally developed data and other third-party sources believed to be reliable. However, no assurances are provided regarding the reliability of such information and the Firm has not sought to independently verify information taken from public and third-party sources.

This material is a general communication, which is not impartial and all information provided has been prepared solely for informational and educational purposes and does not constitute an offer or a recommendation to buy or sell any particular security or to adopt any specific investment strategy. The information herein has not been based on a consideration of any individual investor circumstances and is not investment advice, nor should it

The views and opinions expressed are those of the Portfolio Management team as of August 2022 and are subject to change based on market, economic and other conditions. **Past performance is not indicative of future results.**

be construed in any way as tax, accounting, legal or regulatory advice. To that end, investors should seek independent legal and financial advice, including advice as to tax consequences, before making any investment decision.

Charts and graphs provided herein are for illustrative purposes only. **Past performance is no guarantee of future results.**

The indexes are unmanaged and do not include any expenses, fees or sales charges. It is not possible to invest directly in an index. Any index referred to herein is the intellectual property (including registered trademarks) of the applicable licensor. Any product based on an index is in no way sponsored, endorsed, sold or promoted by the applicable licensor and it shall not have any liability with respect thereto.

This material is not a product of Morgan Stanley's Research Department and should not be regarded as a research material or a recommendation.

The Firm has not authorised financial intermediaries to use and to distribute this material, unless such use and distribution is made in accordance with applicable law and regulation. Additionally, financial intermediaries are required to satisfy themselves that the information in this material is appropriate for any person to whom they provide this material in view of that person's circumstances and purpose. The Firm shall not be liable for, and accepts no liability for, the use or misuse of this material by any such financial intermediary.

This material may be translated into other languages. Where such a translation is made this English version remains definitive. If there are any discrepancies between the English version and any version of this material in another language, the English version shall prevail.

The whole or any part of this material may not be directly or indirectly reproduced, copied, modified, used to create a derivative work, performed, displayed, published, posted, licensed, framed, distributed or transmitted or any of its contents disclosed to third parties without the Firm's express written consent. This material may not be linked to unless such hyperlink is for personal and non-commercial use. All information contained herein is proprietary and is protected under copyright and other applicable law.

Eaton Vance is part of Morgan Stanley Investment Management. Morgan Stanley Investment Management is the asset management division of Morgan Stanley.

DISTRIBUTION

This material is only intended for and will only be distributed to persons resident in jurisdictions where such distribution or availability would not be contrary to local laws or regulations.

MSIM, the asset management division of Morgan Stanley (NYSE: MS), and its affiliates have arrangements in place to market each other's products and services. Each MSIM affiliate is regulated as appropriate in the jurisdiction it operates. MSIM's affiliates are: Eaton Vance Management (International) Limited, Eaton Vance Advisers International Ltd, Calvert Research and Management, Eaton Vance Management, Parametric Portfolio Associates LLC and Atlanta Capital Management LLC.

This material has been issued by any one or more of the following entities:

EMEA:

This material is for Professional Clients/Accredited Investors only.

In the EU, MSIM and Eaton Vance materials are issued by MSIM Fund Management (Ireland) Limited ("FMIL"). FMIL is regulated by the Central Bank of Ireland and is incorporated in Ireland as a private company limited by shares with company registration number 616661 and has its registered address at The Observatory, 7-11 Sir John Rogerson's Quay, Dublin 2, D02 VC42, Ireland.

Outside the EU, MSIM materials are issued by Morgan Stanley Investment Management Limited (MSIM Ltd) is authorised and regulated by the Financial Conduct Authority. Registered in England. Registered No. 1981121. Registered Office: 25 Cabot Square, Canary Wharf, London E14 4QA.

In Switzerland, MSIM materials are issued by Morgan Stanley & Co. International plc, London (Zurich Branch) Authorised and regulated by the Eidgenössische Finanzmarktaufsicht ("FINMA"). Registered Office: Beethovenstrasse 33, 8002 Zurich, Switzerland.

Outside the US and EU, Eaton Vance materials are issued by Eaton Vance Management (International) Limited ("EVM") 125 Old Broad Street, London, EC2N 1AR, UK, which is authorised and regulated in the United Kingdom by the Financial Conduct Authority.

Italy: MSIM FMIL (Milan Branch), (Sede Secondaria di Milano) Palazzo Serbelloni Corso Venezia, 16 20121 Milano, Italy. **The Netherlands:** MSIM FMIL (Amsterdam Branch), Rembrandt Tower, 11th Floor Amstelplein 1 1096HA, Netherlands. **France:** MSIM FMIL (Paris Branch), 61 rue de Monceau 75008 Paris, France. **Spain:** MSIM FMIL (Madrid Branch), Calle Serrano 55, 28006, Madrid, Spain. **Germany:** MSIM Fund Management (Ireland) Limited Frankfurt Branch, Grosse Gallusstrasse

18, 60312 Frankfurt am Main, Germany (Gattung: Zweigniederlassung (FDI) gem. § 53b KWG). **Denmark:** MSIM FMIL (Copenhagen Branch), Gorrissen Federspiel, Axel Towers, Axeltorv2, 1609 Copenhagen V, Denmark.

MIDDLE EAST

Dubai: MSIM Ltd (Representative Office, Unit Precinct 3-7th Floor-Unit 701 and 702, Level 7, Gate Precinct Building 3, Dubai International Financial Centre, Dubai, 506501, United Arab Emirates. Telephone: +97 (0)14 709 7158).

U.S.

NOT FDIC INSURED | OFFER NO BANK GUARANTEE | MAY LOSE VALUE | NOT INSURED BY ANY FEDERAL GOVERNMENT AGENCY | NOT A DEPOSIT

Latin America (Brazil, Chile Colombia, Mexico, Peru, and Uruguay)

This material is for use with an institutional investor or a qualified investor only. All information contained herein is confidential and is for the exclusive use and review of the intended addressee, and may not be passed on to any third party. This material is provided for informational purposes only and does not constitute a public offering, solicitation or recommendation to buy or sell for any product, service, security and/or strategy. A decision to invest should only be made after reading the strategy documentation and conducting in-depth and independent due diligence.

ASIA PACIFIC

Hong Kong: This material is disseminated by Morgan Stanley Asia Limited for use in Hong Kong and shall only be made available to "professional investors" as defined under the Securities and Futures Ordinance of Hong Kong (Cap 571). The contents of this material have not been reviewed nor approved by any regulatory authority including the Securities and Futures Commission in Hong Kong. Accordingly, save where an exemption is available under the relevant law, this material shall not be issued, circulated, distributed, directed at, or made available to, the public in Hong Kong. **Singapore:** This material is disseminated by Morgan Stanley Investment Management Company and may not be circulated or distributed, whether directly or indirectly, to persons in Singapore other than to (i) an accredited investor (ii) an expert investor or (iii) an institutional investor as defined in Section 4A of the Securities and Futures Act, Chapter 289 of Singapore ("SFA"); or (iv) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA. This publication has not been reviewed by the Monetary Authority of Singapore. **Australia:** This material is disseminated in Australia by Morgan Stanley Investment Management (Australia) Pty Limited ACN: 12204-0037, AFSL No. 314182, which accept responsibility for its contents. This publication, and any access to it, is intended only for "wholesale clients" within the meaning of the Australian Corporations Act. Calvert Research and Management, ARBN 635 157 434 is regulated by the US Securities and Exchange Commission under US laws which differ from Australian laws. Calvert Research and Management is exempt from the requirement to hold an Australian financial services licence in accordance with class order O3/1100 in respect of the provision of financial services to wholesale clients in Australia.

Japan:

For professional investors, this document is circulated or distributed for informational purposes only. For those who are not professional investors, this document is provided in relation to Morgan Stanley Investment Management (Japan) Co., Ltd. ("MSIM")'s business with respect to discretionary investment management agreements ("IMA") and investment advisory agreements ("IAA"). This is not for the purpose of a recommendation or solicitation of transactions or offers any particular financial instruments. Under an IMA, with respect to management of assets of a client, the client prescribes basic management policies in advance and commissions MSIM to make all investment decisions based on an analysis of the value, etc. of the securities, and MSIM accepts such commission. The client shall delegate to MSIM the authorities necessary for making investment. MSIM exercises the delegated authorities based on investment decisions of MSIM, and the client shall not make individual instructions. All investment profits and losses belong to the clients; principal is not guaranteed. Please consider the investment objectives and nature of risks before investing. As an investment advisory fee for an IAA or an IMA, the amount of assets subject to the contract multiplied by a certain rate (the upper limit is 2.20% per annum (including tax)) shall be incurred in proportion to the contract period. For some strategies, a contingency fee may be incurred in addition to the fee mentioned above. Indirect charges also may be incurred, such as brokerage commissions for incorporated securities. Since these charges and expenses are different depending on a contract and other factors, MSIM cannot present the rates, upper limits, etc. in advance. All clients should read the Documents Provided Prior to the Conclusion of a Contract carefully before executing an agreement. This document is disseminated in Japan by MSIM, Registered No. 410 (Director of Kanto Local Finance Bureau (Financial Instruments Firms)), Membership: The Japan Securities Dealers Association, the Investment Trusts Association, Japan, the Japan Investment Advisers Association and the Type II Financial Instruments Firms Association.