

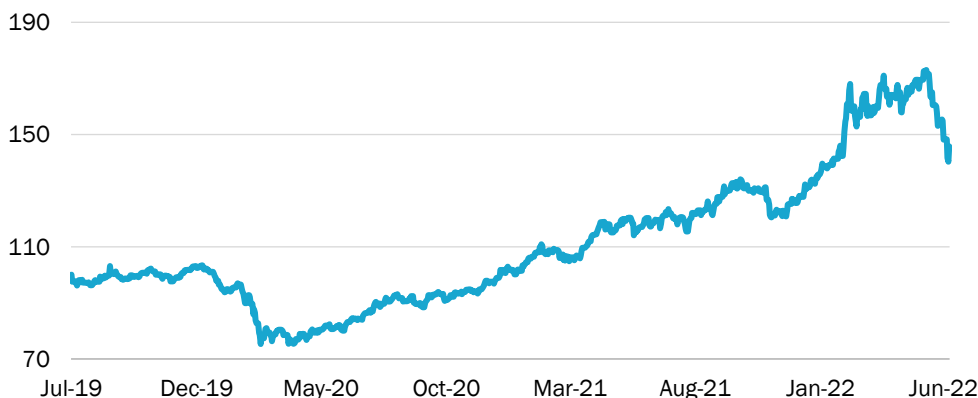
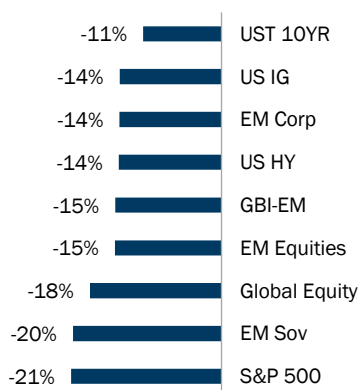
Emerging Markets Debt: 2022 Mid-Year Outlook

The first half of 2022 will be remembered as one of the most volatile periods in financial markets. Returns for most major asset classes were significantly negative with only few exceptions. The easing of restrictions as the omicron variants of the novel coronavirus proved less fatal than earlier mutations, as well as pent-up demand for goods and services unleashed a powerful surge in inflation worldwide. A sharp rally in commodity prices exacerbated the situation following Russia's invasion of Ukraine in February. Interest rates rose sharply across all major markets and equity returns turned deeply negative, with few exceptions.

FIGURE 1: EMERGING MARKET YIELD IS ATTRACTIVE RELATIVE TO ITS OWN HISTORY

1H22 ASSET CLASS PERFORMANCE

BLOOMBERG COMMODITY INDEX



As of June 30, 2022.

See index definitions on page 5.

It is not possible to invest directly in an index. **Past performance is not indicative of future results.**

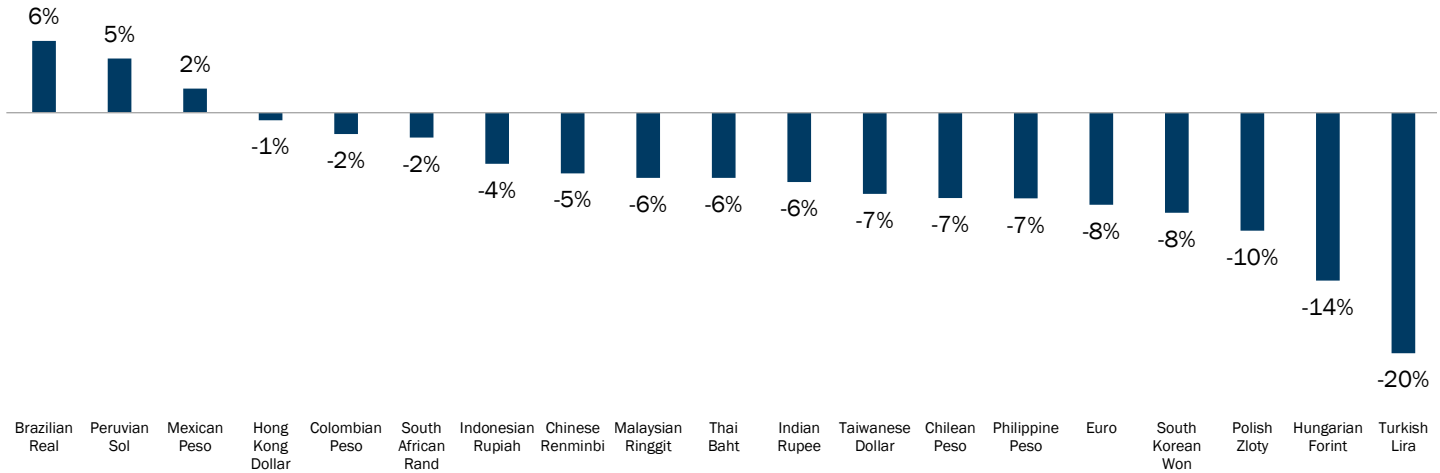
Sources: Bloomberg, JP Morgan, MSCI, S&P, ICE Data.

Central banks initially guided for a temporary surge in prices, but in the 2nd quarter of 2022 had to pivot to much more hawkish monetary policy frameworks. Only the Bank of Japan and to a lesser degree the European Central Bank remained committed to low policy rates. This contributed to the surge in the US dollar, which by the end of June was approaching parity against the euro for the first time since 2002.

Emerging market policy makers, in a welcome departure from historical behavior, reacted to sharply rising prices in many

cases by front-loading interest rate adjustments. This meant that, despite the broadly surging dollar, emerging market currencies were unlikely outperformers, with the Brazilian real, Peruvian sol and Mexican peso all appreciating against the greenback in the first half of 2022. In Asia, where central banks did not front-load their hiking cycles, currencies broadly depreciated against the dollar at a magnitude similar to the move in the euro-dollar exchange rate. Asian export-oriented economies, as long as the depreciation remains orderly, are net beneficiaries from moderately weaker exchange rates.

FIGURE 2: FX PERFORMANCE VS USD
DECEMBER 31, 2021 – JUNE 30, 2022



As of June 30, 2022

Past performance is not indicative of future results.

Source: Bloomberg

Second Half of 2022 Outlook

The path for inflation remains highly uncertain. The impact of the commodity price shock will likely fade, unless raw material prices continue hitting new highs. Furthermore, amid a surge in the cost of living, households are likely to constrain spending or ask for higher compensation from their employers. If the latter will lead to an inflationary surge in wages is also unclear. We believe that amid this uncertainty the path for interest rates could enter a phase of volatility in developed markets, possibly without much directionality.

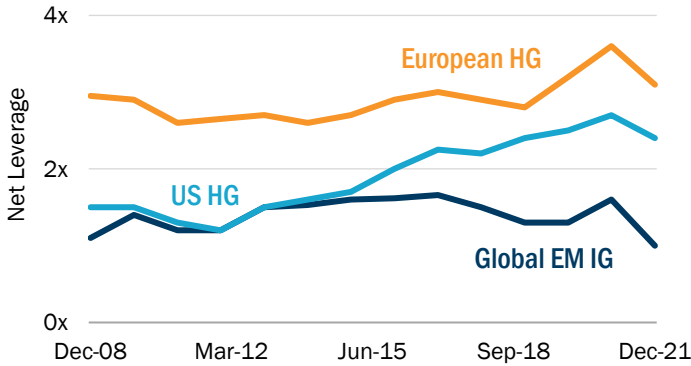
Against the backdrop of high uncertainty and volatile interest rates, we believe that countries in Latin America that have hiked interest rates early, well diversified Asian exporters and Middle Eastern hydrocarbon producers can benefit. On the other hand we think countries with high external financing needs, commodity importers and countries where central banks are behind the curve could find the second half of 2022 challenging.

We believe that amid the very negative overall market reaction in the first half of 2022, underlying improvements in sovereign and corporate balance sheets have not been fully reflected in valuations. This is particularly true for commodity sensitive sectors and regions, where for example we have seen a swing from high budget deficits to surpluses in the Middle East (e.g. Oman, Bahrain) and falling debt ratios in Ecuador and Angola.

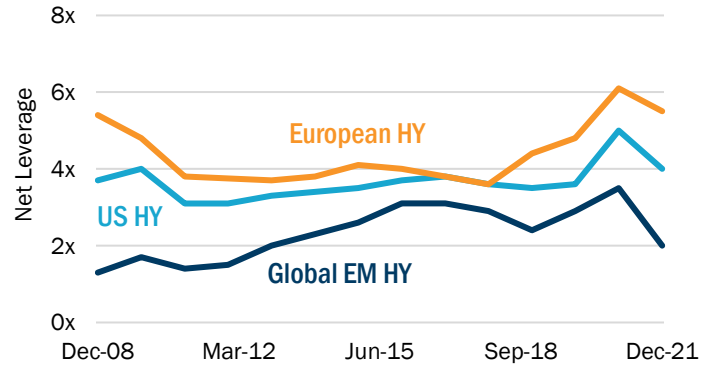
Looking at the USD 1.2 trillion emerging market corporate universe, fundamentals are often better than for developed market corporate peers. The net leverage ratio for example is lower for investment grade and high yield issuers from emerging markets. Financial engineering, a technique where companies borrowed cheaply and paid out dividends to shareholders was largely absent in emerging markets, and the desire to keep accessing external markets has led to a more prudent approach to borrowing among emerging market corporate treasurers. We think for this reason, the current pick-up in yield for emerging market corporate bonds relative to investment grade bonds offers value, and a well-researched portfolio can offer very attractive return potential.

FIGURE 3: EMERGING MARKETS VS. DEVELOPED MARKETS

EM VS DM IG NET LEVERAGE



EM VS DM HY NET LEVERAGE



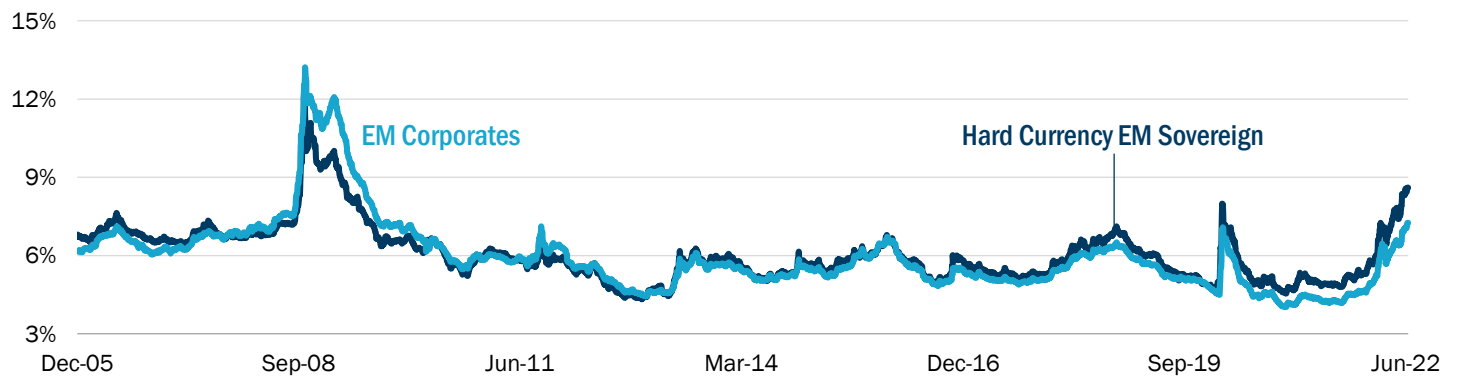
As of December 31, 2021

Source: JP Morgan

Emerging market dollar debt has repriced sharply in the first half of 2022, and broad indices for sovereigns and corporates are now at levels not seen since the global financial crisis in 2008. We believe that, while the exact timing is difficult, current valuations offer an attractive entry point for the long term investor. The robustness of the policy response, improving terms of trade for commodity exporters and a

remarkable resilience in the face of the inflationary shock means that many emerging markets have weathered the global storm so far. Our process is specifically designed to identify which countries or credits will thrive in this environment and where a more cautious approach is warranted.

FIGURE 4: HARD CURRENCY EM SOVEREIGN AND CORPORATE YIELDS



As of July 11, 2022

EM Corporates = J.P. Morgan CEMBI Diversified Broad Composite Blended Yield; Hard Currency EM Sovereign = JPMorgan EMBI Global Diversified Blended Yield. Please see index descriptions on p.5.

Past performance is not indicative of future results.

Source: JP Morgan

Meet the MacKay Shields EMD Team

Diverse team with average **17 years experience** brings unique perspectives and skills:

A combination of bond experience across sovereign, local currency, and emerging market corporates

10 unique languages spoken among the team members

Prior to joining MacKay, the team led management of approximately **\$4 billion** across EMD sovereigns and corporates.



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Past performance is not indicative of future results.

The following indices may be referred to in this document:

BLOOMBERG COMMODITY INDEX

The Bloomberg Commodity Index tracks prices of futures contracts on physical commodities on the commodity markets. The index is designed to minimize concentration in any one commodity or sector. It currently has 23 commodity futures in six sectors. No one commodity can compose more than 15% of the index, no one commodity and its derived commodities can compose more than 25% of the index, and no sector can represent more than 33% of the index (as of the annual weightings of the components). The weightings for each commodity included in BCOM are calculated in accordance with rules account for liquidity and production data in a 2:1 ratio, which ensures that the relative proportion of each of the underlying individual commodities reflects its global economic significance and market liquidity. Annual rebalancing and reweighting ensure that diversity is maintained over time.

BLOOMBERG US TREASURY 10 YEAR TERM INDEX TOTAL RETURN

The Bloomberg US Treasury 10 Year Index measures US dollar-denominated, fixed-rate, nominal debt issued by the US Treasury with 10 years to maturity. Treasury bills are excluded by the maturity constraint, but are part of a separate Short Treasury Index.

ICE BOFA US CORPORATE IG INDEX

The ICE BofA US Corporate IG Index tracks the performance of U.S. dollar-denominated investment-grade corporate debt publicly issued in the U.S. domestic market. Qualifying securities must have an investment-grade rating (based on an average of Moody's, S&P and Fitch) and an investment-grade rated country of risk (based on an average of Moody's, S&P and Fitch foreign currency long term sovereign debt ratings). In addition, qualifying securities must have at least one year remaining term to final maturity, a fixed coupon schedule and a minimum amount outstanding of \$250 million.

ICE BOFA US HIGH YIELD INDEX

ICE BofA U.S. High Yield Index tracks the performance of U.S. dollar denominated below investment grade corporate debt publicly issued in the U.S. domestic market. Qualifying securities must have a below investment grade rating (based on an average of Moody's, S&P and Fitch), at least 18 months to final maturity at the time of issuance, at least one year remaining term to final maturity as of the rebalancing date, a fixed coupon schedule and a minimum amount outstanding of \$250 million. In addition, qualifying securities must have risk exposure to countries that are members of the FX-G10, Western Europe or territories of the U.S. and Western Europe. The FX-G10 includes all Euro members, the U.S., Japan, the U.K., Canada, Australia, New Zealand, Switzerland, Norway and Sweden. Original issue zero coupon bonds, 144a securities (both with and without registration rights), and pay-in-kind securities (including toggle notes) are included in the index. Callable perpetual securities are included provided they are at least one year from the first call date. Fixed-to floating rate securities are included provided they are callable within the fixed rate period and are at least one year from the last call prior to the date the bond transitions from a fixed to a floating rate security. Contingent capital securities ("Cocos") are excluded, but capital securities where conversion can be mandated by a regulatory authority, but which have no specified trigger, are included. Other hybrid capital securities, such as those issues that potentially convert into preference shares, those with both cumulative and non-cumulative coupon deferral provisions, and those with alternative coupon satisfaction mechanisms, are also included in the index. Securities issued or marketed primarily to retail investors, equity-linked securities, securities in legal default, hybrid securitized corporates, Eurodollar bonds (USD securities not issued in the U.S. domestic market), taxable and tax-exempt U.S. municipal securities and DRD-eligible securities are excluded from the index. Index constituents are market capitalization weighted. Accrued interest is calculated assuming next-day settlement. Cash flows from bond payments that are received during the month are retained in the index until the end of the month and then are removed as part of the rebalancing. Cash does not earn any reinvestment income while it is held in the index.

J.P. MORGAN CEMBI BROAD DIVERSIFIED COMPOSITE BLENDED YIELD

The CEMBI Broad Diversified is a uniquely weighted USD-denominated emerging markets corporate credit index. It employs a unique approach which uses only a certain portion of the current face amount outstanding for instruments from countries with larger debt stocks. This helps to limit country weights, while reducing index turnover. The blended yield of this index is the market value weighted average yield of its constituents.

J.P. MORGAN CORPORATE EMBI BROAD DIVERSIFIED COMPOSITE INDEX

The J.P. Morgan CEMBI Broad Diversified Core Index (CEMBI CORE) tracks the performance of US dollar-denominated bonds issued by emerging market corporate entities. The CEMBI CORE follows the methodology of the flagship J.P. Morgan CEMBI Broad Diversified (CEMBIB Div) closely, while offering a more liquid and higher credit quality subset. The CEMBI CORE is based on the composition of the CEMBIB Div but removes the instruments with face amounts outstanding less than US\$500 million and the instruments that are closer to maturity. The diversification methodology limits the weights of the larger index countries by only including a specified portion of those countries' eligible face amount outstanding, thus reducing single issuer concentration and providing a more even distribution of weights.

J.P. MORGAN EMBI GLOBAL DIVERSIFIED INDEX

The Emerging Market Bond Index Global Diversified (EMBIGD) is a uniquely weighted USD-denominated emerging markets sovereign index. It has a distinct diversification scheme which allows a more even weight distribution among the countries in the index.

J.P. MORGAN EMBI GLOBAL DIVERSIFIED BLENDED YIELD INDEX

The Emerging Market Bond Index Global Diversified (EMBIGD) is a uniquely weighted USD-denominated emerging markets sovereign index. It has a distinct diversification scheme which allows a more even weight distribution among the countries in the index. The Diversification methodology constrains a country's weight by first adjusting the face amount outstanding and then applying an additional layer of maximum weight cap of 10%. The blended yield of this index is the market value weighted average yield of its constituents.

J.P. MORGAN GBI-EM GLOBAL DIVERSIFIED UNHEDGED USD INDEX

The J.P. Morgan EMBI Global Diversified Index tracks liquid, US Dollar emerging market fixed and floating-rate debt instruments issued by sovereign and quasi-sovereign entities.

MSCI EMERGING MARKETS 100% HEDGED TOTAL RETURN USD INDEX

The MSCI Emerging Markets (EM) 100% Hedged to USD Index represents a close estimation of the performance that can be achieved by hedging the currency exposures of its parent index, the MSCI EM Index, to the USD, the "home" currency for the hedged index. The index is 100% hedged to the USD by selling each foreign currency forward at the one-month Forward weight. The parent index is composed of large and mid cap stocks across 24 Emerging Markets (EM) countries* and its local performance is calculated in different currencies.

MSCI WORLD 100% HEDGED TOTAL RETURN USD INDEX

The MSCI World 100% Hedged to USD Index represents a close estimation of the performance that can be achieved by hedging the currency exposures of its parent index, the MSCI World Index, to the USD, the "home" currency for the hedged index. The index is 100% hedged to the USD by selling each foreign currency forward at the one-month Forward weight. The parent index is composed of large and mid-cap stocks across 23 Developed Markets (DM) countries* and its local performance is calculated in 13 different currencies, including the Euro.

S&P 500 INDEX

The S&P 500 is a capitalization-weighted stock index that includes 500 of the largest companies traded on American stock markets, and its performance is often used as a benchmark by investors.