

The Case for Local Currency Emerging Market Debt



Local Currency Emerging Market ("EM") government debt has been through a number of distinct cycles since the early 2000's when these markets became more liquid, widely traded, and began to be seen as viable investment destinations¹. Like all bond markets, their returns have ebbed and flowed as a function of their inflation outlook, the macroeconomic backdrop, policy framework, and the strength and weakness of their currencies. After facing a number of headwinds in the recent past, we believe that the asset class is now well placed to benefit from a sustained upswing. Specifically, further US dollar weakness, relatively high and attractive real yields, sound macroeconomic management, and declining inflation across the major economies within the local currency asset class all suggest that this asset class is about to undergo a sustained period of strong performance - notwithstanding the gains made to date since their recent low in the fourth quarter of 2022. Likely further declines in the US dollar, together with their stronger balance sheets and less reliance on US hard currency funding, also suggest that EM local currency debt is likely to outperform EM Hard Currency debt in the coming period.

Balance Sheet Strength

Notwithstanding the Covid-19 shock, subsequent supply chain disruption, the invasion of the Ukraine, and swings in commodity prices, the resilience of EM local currency debt over the past three years has been a testament to the improvements in economic management and the credibility gains made in many of these economies. Clearly, this is not the case for all "Emerging Markets", and economies such as Lebanon, Sri Lanka and Argentina have all experienced significant financial distress in recent years. Not only do these latter economies suffer from poor governance, weak policy making and high inflation, they are also typically dependent upon foreign capital. Such hard currency funding typically results in them being included in most EM hard currency benchmarks, but not the higher quality local benchmarks. Colchester believes that these countries are better considered as "Frontier Markets", with similar characteristics to the emerging markets of yesteryear. In the absence of a robust monetary policy framework, inflation can also take hold in more advanced emerging markets with adverse consequences. Türkiye would be a prime example of that in the recent past. Notwithstanding the odd exception, the stronger economies in this space have left the erratic policy making of the 1980's and 90's behind. Despite an array of challenges and shocks that have buffered the global economy over the past three years or so, the absence of systemic crises across the entire EM universe highlights the relative stability and resilience of the major economies such as Brazil, Mexico, Poland, Indonesia, and others.

This resilience can be seen in the government debt to GDP ratio, the ratio of debt service costs to revenues, and the level of inflation in the local currency EM opportunity set. Charts 1 and 2 present these metrics, on a weighted average basis for the countries comprising the JP Morgan GBI-EM Global Diversified index. Whilst debt levels did rise in response to the Covid-19 pandemic - as they did elsewhere – average EM government debt levels of around 56% of GDP in 2023 are remarkedly only half that of Advanced Economies.² While interest costs were low through 2020 and 2021, they rose in 2022 in line with the generalized increase in yields globally. In our opinion, interest costs of less than 12% of revenues are not a cause for significant concern, nor necessarily a signal of enhanced risk levels. Recent examples of debt distress have been in countries where this ratio has been dramatically higher. For example, the ratio was over 70% in Sri Lanka in 2021, and it was close to 45% in Ghana in 2022 when both these frontier markets ran into difficulty.

² The IMF estimate Advanced Economy average gross government debt at 112% of GDP. Source IMF, WEO, April 2023.



¹ The most commonly referenced benchmark index for local currency emerging market debt - the JP Morgan GBI-EM Global Diversified Index – was incepted in 2003.

As shown in Chart 2, inflation in the major Emerging Markets declined in the two decades preceding the pandemic, a result of more credible policymaking, improved governance, and enhanced macroeconomic stability. Inflation, in almost all economies spiked in 2022, but importantly the experience of the major Emerging Markets was not dissimilar to that of Developed Markets ("DM"). Whilst compositional differences in the measurement of the CPI (e.g. EM countries tend to have a higher weight of food and other essentials in their CPI basket, compared with DM) led to higher headline inflation in some, but not all, EM countries. It is noteworthy that inflation in the likes of Brazil and Indonesia today is lower than in Germany³. Similarly, Mexico and South Africa experienced lower inflation than the UK over the same period.

60 Debt/GDP 50 Debt/GDP & Interest/Revenue (%) Interest as % of Revenues 40 30 20 10 0 2003 2005 2007 2009 2011 2013 2015 2017 2019 2021 2023

Chart 1. Emerging Market Government Debt and Interest Costs

Source: Fitch Ratings, IMF, JP Morgan, Colchester Global Investors. All series are weighted average values of the countries comprising the JP Morgan GBI-EM Global Diversified index as at the end of May 2023

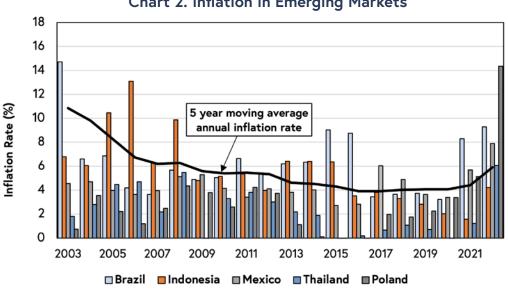
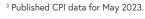


Chart 2. Inflation in Emerging Markets

Source: IMF, JP Morgan, Colchester Global Investors. The 5-year moving average is the weighted average based on the weights of the countries in the JP Morgan GBI-EM Global Diversified index as at the end of May 2023.





Comparing Local and Hard Currency Emerging Market Debt

Whilst the two asset classes carry the same name, "emerging market", the characteristics and credit quality of both are different. Stronger balance sheets, flexible exchange rate regimes, better governance and sustained credible policy making are typically associated with higher credit ratings. Economies with stronger credit ratings typically fund themselves domestically in local currency, rather than in hard currency (e.g. via the issuance of US dollar denominated debt⁴). This has the advantage of tapping into a stable domestic savings base, eliminating currency risk, and, more often than not, can be obtained at a lower cost. It also reduces dependency on sometimes fickle foreign capital flows. In contrast, weaker economies often have little choice but to issue in hard currency. This has resulted in a scenario where the underlying financial stability and creditworthiness differs between the local and hard currency EM government debt opportunity set. The net result is a lower average credit rating on the hard currency EM bond index compared with its local currency equivalent (see Chart 3).

The hard currency average credit rating is biased slightly upwards by the inclusion of the Gulf States with stronger balance sheets⁵. Removing those countries from the hard currency index drops the average credit rating to BB+ and accentuates the credit skew evident in Chart 3. Currently, just under 24% of the hard currency index is rated B+ or lower, compared with only 2% in the local currency index. As very lowly rated countries do not typically feature in the local currency benchmarks, this reduces the probability of investors in this asset class being exposed to severe distress events. Sovereign bond investors should also be aware that even for the same credit rating, the historical default rate has been higher for foreign currency debt, than for local currency debt⁶. Politicians are aware that domestic holders of local currency debt typically get to "vote", foreigners don't!

⁶ Source: 2022 Annual Sovereign Default and Rating Transition Study, S&P.



⁴ The majority of EM hard currency debt is issued in US dollars, with a smaller proportion issued in Euro. Some residual British pound debt also remains in issue.

⁵ The Gulf States are members of the Gulf Cooperation Council (GCC) and include Saudi Arabia, the UAE, Kuwait, Bahrain, Qatar, and Oman. They comprise just under 14% of the hard currency index, encompassing all of the AA and half of the A countries shown in Chart 3. As these countries operate fixed exchange rate regimes that are pegged to the US dollar, they are natural issuers of US dollar debt.

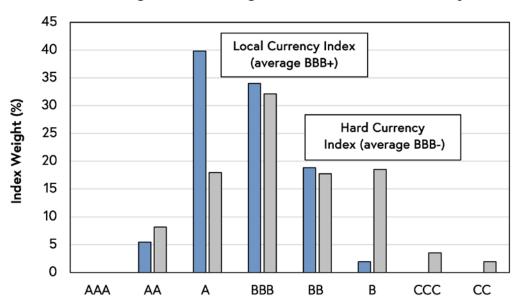


Chart 3. Average Credit Ratings in Local and Hard Currency Indices

Source: JP Morgan, Bloomberg, Colchester Global Investors. Data as of 31st May 2023. Rating is highest of S&P, Moody's and Fitch, where available. The local currency rating is used for the local currency index (JP Morgan GBI-EM Global Diversified) and the foreign currency rating for the hard currency index (JP Morgan EMBI Global Diversified).

This difference in financial stability and credit quality in part may explain the shift observed in relative volatility between the two categories of EM debt in recent years. Historically the hard currency asset class has exhibited lower volatility than the local currency asset class (unhedged in US dollars). This is evident in Chart 4. However, as shown in Table 1, returns and the volatility of the two asset classes has essentially been the same over the past three years to the end of May 2023. As demonstrated in Chart 4, the rolling three-year volatility of the hard currency index jumped higher at the start of the Covid-19 pandemic and has remained at elevated levels since. In contrast, whilst the volatility of the local currency index also moved higher in response to the Covid shock, it did so to a notably lesser degree. While the local currency component of returns has historically been more volatile and the dominant driver of the volatility of the asset class, it was relatively muted in response to the Covid shock, hinting at greater maturity and increased stability within the asset class.





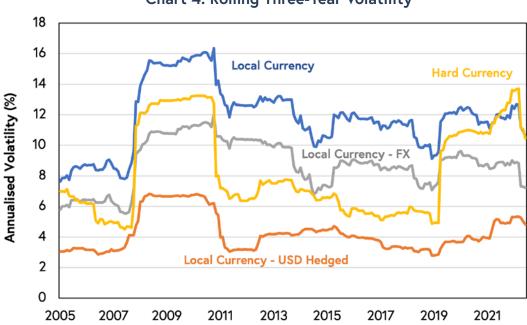


Chart 4. Rolling Three-Year Volatility

Source: Bloomberg, JP Morgan, Colchester Global Investors. Data from December 2005 to May 2023. The Local Currency FX volatility refers to the difference in return between the Local Currency index (unhedged) and the hedged index return. All returns measured in US dollars.

Table 1: Return and Risk Characteristics – Three Years to May 2023

	Annualised Return	Volatility
JP Morgan GBI-EM Global Diversified (Local)	-2.31%	10.56%
JP Morgan EMBI Global Diversified (Hard)	-2.70%	10.45%
FTSE World Government Bond Index (IG Global)	-6.28%	8.36%

As the returns of hard currency EM debt are primarily driven by (i) the direction of the US Treasury market, (ii) individual country risk characteristics or credit premiums, and (iii) the direction of the US dollar (for non-US dollar investors), this leads to different correlation characteristics compared with returns on local currency debt. Hard currency EM sovereign debt is typically held by global investors and is priced by the market in terms of the spread to a benchmark yield curve such as US Treasuries in the case of US dollar denominated debt. Accordingly, EM Dollar debt is priced in a similar manner to USD-denominated corporate bonds. A rise in Treasury yields typically prompts a rise in yields of those bonds priced relative to them, and vice versa.

In contrast, local currency debt is usually held predominately by local investors (although foreign investors are also involved). Furthermore, local currency debt returns are driven more by the local factors driving each country's domestic yield curve and are therefore somewhat less sensitive to changes in global financial conditions (although clearly not immune). Foreign investor returns in local currency debt are also impacted by the direction of the currency. Accordingly, Thai bond returns can, and do, diverge from those in South Africa or Colombia, as each market is underpinned by their own domestic

⁷ As noted in footnote 4, most EM hard currency debt is issued in US dollars, hence the focus on the underlying US treasury bond market and US dollar.



inflation outlook, macroeconomic backdrop, etc., not necessarily by what is going on in the US Treasury market. Within an aggregate multi-asset portfolio, this is likely, on average, over time, to lead to local currency debt potentially offering better diversification characteristics compared with its hard currency counterparty as each country's bond market is responding to its own particular set of conditions.

Not surprisingly, given the higher weight in lower rated credits in the hard currency Index, it is highly correlated with High Yield corporate debt. The correlation between the JP Morgan EMBI Global Diversified and the BoA Merrill Lynch US High Yield index over the past 5 years has been 0.86, whereas the correlation between the Local Currency index and High Yield over the same period was 0.71. Whilst the local currency correlation is still on the high side, the absolute level of this positive correlation is not surprising given the events of the past 5 years. All so-called "risk assets" declined in response to the twin shocks of the Covid pandemic and the invasion of Ukraine, and together with all fixed income assets subsequently suffered to various degrees in response to the global back up in yields over the past 18 months, or so. Nonetheless, we believe that the domestic drivers of local market returns are likely to dominate over time, pointing towards a somewhat lower correlation of the local currency asset class with High Yield, and potentially better diversification.

Headwinds for EM Debt turning to Tailwinds...

We have identified two powerful drivers of EM debt returns which we believe are now clearly pointing to strong returns over the medium term on this asset class; 1) The cycle in US dollar exchange rate, and 2) the inflation environment in EM and associated level of real yield on offer in Local Currency EM.

The US Dollar Cycle

Historically the direction of the US dollar has been closely linked with the performance of EM assets. When the USD strengthens, this often coincides with a tightening of global financial conditions putting pressure on those emerging economies with weaker balance sheets, running current account deficits, or dependent upon foreign capital. It also typically leads to currency weakness amongst the EM currencies, placing upward pressure on EM inflation, and prompting a deterioration in credit quality. This mechanism also plays out in the DM world to various degrees.

The past two decades have seen two distinct cycles of the US dollar, (i) the depreciation in the first seven to eight years of this century, and (ii) the major appreciation that took place from 2011 to 2022 (even though this extended upward trend of the Dollar did see periods of weakness in 2017 and 2020). The Dollar also went through a period of consolidation over 2008-2011. These three periods can be seen in Chart 5.





120 110 **USD Weakness USD Strength** US Dollar Index (DXY) 100 Consolidation 90 80 70 60

Chart 5. Cycles in US Dollar Exchange Rate

Source: Bloomberg, Colchester Global Investors. Monthly data from December 2002 to May 2023.

2012

2014

2016

2018 2020 2022

2010

2002 2004 2006 2008

Table 2: EM Debt Returns in Various US Dollar Cycles

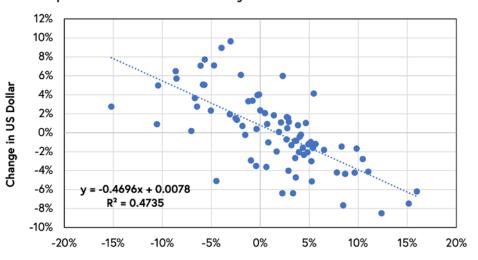
			Annualised Returns (USD terms)	
		DXY Change	JP Morgan EMBI GD (Hard)	JP Morgan GBI-EM GD (Local)
USD weakness	Dec 2002 - Mar 2008	-29.5%	11.4%	15.4%
Consolidation	Mar 2008 - Apr 2011	1.6%	9.0%	11.8%
USD Strength	Apr 2011 - Sep 2022	53.7%	2.6%	-1.9%

Source: Bloomberg, JP Morgan. Colchester Global Investors. DXY is the US Dollar Index.



Looking at the respective US dollar returns of the local and hard currency EM bond classes over these periods, unsurprisingly it is readily apparent that they are highly correlated with the direction of the Dollar (Table 2). The hard currency index outperformed relative to the local index when the Dollar strengthened and underperformed when it weakened. Local also outperformed during the "sideways" or consolidation period as the currency impact became moot and, in all likelihood, the higher nominal and real interest rates on offer in the local bond space dominated. This assessment is reinforced when we look at the correlation of local currency returns with the direction of the Dollar in Chart 6, and the relationship of relative performance between hard and local debt, and the dollar in Chart 7. Whilst not the only factor driving returns, local EM debt has historically outperformed in both absolute and relative terms in a falling Dollar environment, and hard currency EM debt has done better when the Dollar has appreciated. So where are we today?

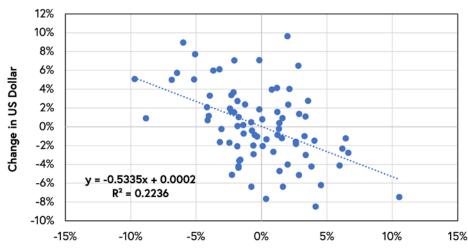
Chart 6. Relationship Between Local Currency Debt Returns and Movement in the US Dollar



Return on JP Morgan GBI-EM Global Diversified

Source: Bloomberg, Colchester Global Investors. Analysis based on quarterly changes in the US Dollar Index (DXY) and the JP Morgan GBI-EM Global Diversified Index from March 2003 to March 2023.

Chart 7. Relationship Between Local and Hard Currency Debt Returns and Movement in the US Dollar



Relative Return of Local vs Hard Currency EMD

Source: Bloomberg, Colchester Global Investors. Analysis based on quarterly changes in the US Dollar Index (DXY), the JP Morgan GBI-EM Global Diversified Index, and the JP Morgan EMBI Global Diversified Index from March 2003 to March 2023.



As the cornerstone of our currency valuation framework, we believe that the real exchange rate provides a useful metric with which to assess the relative value of currencies over the medium term. Our current assessment of the real value of the US dollar suggests that it may have peaked towards the end of 2022 and may be at the beginning of another cycle of USD depreciation, similar to that seen in the 2000's. Colchester estimates that the USD reached an overvaluation in real terms of close to 30% against an equally weighted basket of five major developed world currencies⁸ in late 2022. A similar level of Dollar overvaluation was also evident against a diversified basket of emerging market currencies. Whilst the Dollar has weakened a bit from its high, our analysis suggests that it remains meaningfully overvalued in real terms in mid-2023. History therefore suggests further Dollar weakness may be expected in the medium to long-term.

Turning points are notoriously difficult to identify ex-ante in all financial markets, and maybe even more so in currency markets. Nonetheless, as well as the extreme real exchange rate overvaluation, there are some other indications that we may have seen the peak in the US dollar for this cycle. For one thing, the aggressive tightening of the US Federal Reserve relative to other countries was widely believed to have contributed to USD appreciation last year? Today, contracting money supply in the US suggests that the inflation outlook may improve rapidly in the US. The stock of money in the US economy, as measured by M2, peaked in mid-2022 and has been declining since, with the latest annual change running at -4.6%, the lowest rate of change since the Great Depression. This suggests that the end of the rate hiking cycle may be approaching, potentially removing this perceived relative interest rate support for the Dollar. The other support for the US dollar in 2022 was the positive change in the US economy's terms of trade, relative to economies in Asia and Europe. Here too, given the declines in commodity and energy prices in the first half of 2023, this supportive backdrop may also be reversing.

Inflation and Real Yields in EM

As noted above, the inflation experience of many of the major Emerging Markets over the past 18 months has not been dissimilar to that of Developed Markets. There was certainly a surge in inflation across Latin America and Central Europe in response to the post-pandemic supply chain disruptions, aggressive stimulus, and elevated food and energy prices. The experience in Asia was more mixed, but nonetheless, upward pressure on inflation did materialise in certain economies. Notably, however, as global inflation pressures have receded, inflation has declined in Emerging Markets at a similar if not, faster pace, than seen in some Developed Markets. Particularly in Latin America, inflation has been on a clear downward trajectory after peaking in 2022 in economies such as Brazil, Mexico, and Chile.

This disinflationary process underway in many of the major Emerging Markets is hardly surprising given the pace and scale of monetary policy tightening undertaken. Not only were many EM Central Banks more conservative than their DM counterparts in response to the Covid shock, they were also much more aggressive in tightening policy in the face of the deteriorating inflation outlook. In Brazil and Mexico for example, the respective central banks commenced rate increases some 12 months before the US Federal Reserve (see Chart 8). Nominal policy rates are now in double-digit territory in both economies, resulting in high real policy rates, underpinning the disinflationary process, and raising the likelihood that rates may be cut later in the year. Irrespective of the timing of any potential monetary policy adjustment in these countries, and elsewhere, the high nominal interest rates on offer combined with the improving inflation outlook is presenting very high prospective real yields in many of the EM local currency bond markets. This makes those markets attractive in both absolute and relative terms compared to their developed world counterparties, including the US.

⁹ See "Global Exchange Rate Adjustments: Drivers, Impacts and Policy Implications", BIS, Nov 2022.



⁸ The Euro, British pound, Japanese yen, Canadian dollar, and Norwegian krone.

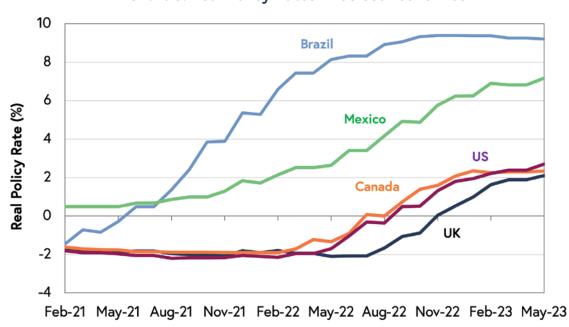


Chart 8. Real Policy Rates in Select Economies

Source: Respective Central Bank sources, Bloomberg, Colchester Global Investors. Data from February 2021 to May 2023.

Real policy rate = central bank rate less consensus forecast of future inflation.

Assessment of Potential Real Value on Offer in EM Local Currency Debt

Colchester's prospective real yield, and real exchange rate valuation approach provides a framework within which potential medium term local currency debt returns may be assessed. Both benchmark and Colchester program bond and currency exposures can be converted into a potential real return by multiplying their respective weights by the prospective real yield and real exchange rate¹⁰ on offer in each market. This provides a metric that can be assessed through time.

Chart 9 suggests that the current "value" on offer in both the JP Morgan GBI-EM Global Diversified Index and in the Colchester local currency programme is close to historical highs. The attractive prospective real yields on offer in the opportunity set combined with the undervaluation of emerging market currencies versus the US dollar make a compelling valuation case relative to history. The positive inflation outlook in conjunction with high nominal yields on offer in many EM markets suggests a prospective real yield bond return approaching 3% on the benchmark, and something closer to 4% on the Colchester program. Similarly, the sustained real exchange rate undervaluation of EM currencies versus the US dollar of some 15% on the benchmark, and approximately 20% on the Colchester currency exposures, suggests another 3% and 4% respectively of intrinsic value on offer on the currency side. Combining both suggests a potential real return of around 6% on the benchmark and some 8% on the Colchester program. As Chart 9 highlights, both compare favourably with an average of some 3% and around 5% respectively since inception of the Colchester program in January 2009.

Relative to its history, this metric suggests the local currency debt asset class is currently offering attractive value.

¹⁰ Assuming an average 5 year mean reversion process of the real exchange rate to fair value.



Weighted Average Prospective Real Yield (%) 10 Colchester Programme 8 6 Colchester - average 4 Benchmark - average 2 0 **Benchmark** -2 -4 2008 2011 2014 2017 2020

Chart 9. Colchester Programme and Index Combined Currency and Bond Valuation

Source: Colchester Global Investors. Combined prospective real yield (10-year nominal yield in each market minus Colchester's forecast of inflation) and currency equivalent real yield (portfolio or benchmark aggregate real exchange rate undervaluation divided by 5). Data as at May 2023. Benchmark is the JP Morgan GBI-EM Global Diversified index.

Note the time series begins since the inception of the Colchester local market debt program.

Conclusion

Compelling prospective real yields, the potential for further declines in inflation, improved macroeconomic stability across much of the EM local currency debt space, and meaningful real currency undervaluation versus the US dollar all provide a positive backdrop for the asset class going forward. Local currency EM debt is likely to prosper in this environment and may be expected to outperform its hard currency EM debt counterpart should the US dollar continue to fall. History suggests local currency debt outperforms hard currency debt during periods of US dollar weakness. Against its own history, Colchester's assessment of the potential real return on offer in the local currency debt space is particularly attractive at this juncture.



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