# A STRUCTURAL SHIFT IN THE DOLLAR:

## THE ROLE OF EMERGING MARKET DEBT

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## A STRUCTURAL SHIFT IN THE DOLLAR AND THE ROLE OF EMERGING MARKET **DEBT**

An investment in Emerging Market Debt (EMD) presents an opportunity to diversify and enhance returns in a traditional 60% stocks and 40% bonds portfolio. EMD offers a unique risk profile compared to developed markets, and the asset class is diversified within itself. This analysis evaluates the historical performance of EMD compared to other asset classes and examines the benefits of allocating to EMD historically.

Beyond historical evidence, we also consider a forward-looking scenario shaped by a potential structural shift in the U.S. dollar (DXY). Cyclical drivers such as expected Federal Reserve rate cuts already point toward EURUSD appreciation, but deeper structural forces — including the weaponization of the dollar in geopolitics, its declining share of global reserves, and rising risks from U.S. tariff policies — suggest a longer-term weakening trend for the DXY. This has significant implications for portfolio construction, particularly for assets like local-currency EMD that directly benefit from dollar depreciation.

Accordingly, this study not only reviews EMD's past role in enhancing risk-adjusted returns but also examines its strategic importance in a changing global financial paradigm where dollar dominance is gradually eroding. The analysis spans all major sub-asset classes within EMD, including both sovereign and corporate debt, alongside U.S. Treasuries, U.S. High Yield, U.S. Investment Grade Credit, U.S. Equities (S&P 500), and Global Equities (MSCI).

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### **Historical Performance**

Our analysis of the historical returns, volatility, and correlation of these asset classes from January 2003 to August 2025 reveals that EMBIGD has historically outperformed US Treasury bonds by approximately 297 bps per annum, with EMBIGD achieving an annual return of 6.37% compared to 3.40% for US Treasury bonds. Furthermore, EMBIGD has a slightly lower annual volatility at 6.05% compared to 6.58% for US Treasury bonds, indicating a significantly higher Sharpe ratio for EMBIGD at 1.0526 compared to 0.5172 for US Treasury bonds.

When comparing DM corporates, specifically US HY and US IG, to EM corporates, namely CEMBIBD, we find that US HY and US IG have annual returns of 7.25% and 4.25%, respectively. In contrast, CEMBIBD has an annual return of 5.69%, lower than US HY but higher than US IG. However, US HY has a higher risk profile relative to CEMBIBD when considering volatility. Even US IG, which has a lower annual return than CEMBIBD, exhibits higher annual volatility. Therefore, from a risk-adjusted perspective, CEMBIBD is highly attractive compared to its DM counterparts, with a Sharpe ratio of 1.6705.

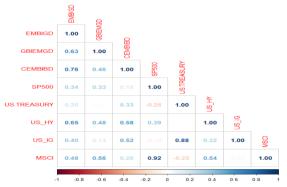
Figure 1: Performance Metrics for Asset Classes

	Annualized Return	Annualized Std Dev	Annualized Sharpe (Rf=0%
EMBIGD	0.0637	0.0605	1.052
GBIEMGD	0.0547	0.0936	0.584
CEMBIBD	0.0569	0.0340	1.670
SP500	0.1207	0.1853	0.651
US.TREASURY	0.0340	0.0658	0.517
US_HY	0.0725	0.0494	1.466
US_IG	0.0425	0.0554	0.768
MSCI	0.0834	0.1581	0.527

From a diversification perspective, we also examine the correlation between the assets which is shown in figure 1a. By comparing MSCI world with the 3 subasset classes within EMD, it is evident that GBIEMGD has the highest correlation at 0.56 and CEMBIBD the lowest correlation at 0.26 within these 3 asset classes. Interestingly, US HY has both a higher correlation relative to EMBIGD and CEMBI when measuring against MSCI.



Figure 1a: Correlation between assets



**Source: Global Evolution** 

## **Mean-Variance Optimization**

Given the historical performance of the various asset classes, we now examine how an optimal portfolio would be if the historical performance would repeat itself again. We will use the mean-variance efficient frontier concept which was first introduced by Harry Markowitz in his seminal 1952 paper "Portfolio Selection". The basic idea is to find the set of portfolios that offer the highest expected return for a given level of risk.

However, one of the main disadvantages of the traditional mean-variance optimization (MVO) which was proposed by Markowitz (1952) is that it is not very robust. This means that small changes in the input data such as expected returns or correlations can result in large changes in the optimized portfolio. This sensitivity in input data can lead to undiversified or unstable portfolios which can be problematic in practice. To address these issues, we will use a modified version of the traditional mean-variance optimization. We will use a resampling method proposed by Michaud (2007). This method uses simulation techniques called bootstrapping, to generate multiple sets of possible input data and then optimize portfolios based on the average characteristics of the simulated data. By doing so, we will get a more diversified and stable portfolio allocation that is less sensitive to small changes in input data and more realistic in the real world.

## Optimization with Backward Looking Historical Data

Figure 2a displays the efficient frontier produced by employing annual returns, volatilities, and correlations over the past two decades in our investable universe. Figure 2b illustrates the optimal weight allocations for each optimal portfolio (PF) that lies on the efficient

frontier shown in figure 2a. For instance, PF number 1 corresponds to the minimum variance PF on the efficient frontier, located on the leftmost side. Similarly, PF number 40 corresponds to the maximum return PF on the efficient frontier, located on the rightmost side.

An examination of the minimum variance PF reveals that the highest weight is allocated to US treasuries, specifically 51.60%. This finding is unsurprising given that US treasuries have the lowest volatility and the most negative correlation with other asset classes. We also observe that riskier assets like S&P500 receive a relatively lower weight of 3.4% in this PF. Furthermore, the optimization model assigns 7.3%, 0.16%, and 6.38% to CEMBIBD, EMBIGD, and GBIEMGD, respectively, resulting in a total allocation of 13.84% to EMD in the minimum variance PF.

Figure 2a: Mean Variance Efficient Frontier Resampling

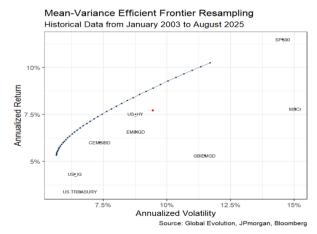
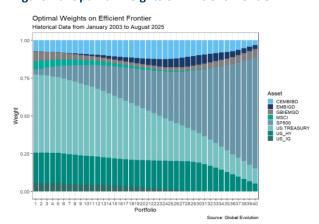


Figure 2b: Optimal Weights on Efficient Frontier



Conversely, the maximum return PF only assigns 10.09% to US treasuries, with the largest weight of 73.4% allocated to S&P500. In this PF, the model assigns 3.25%, 2.57%, and 5.47% to CEMBIBD, EMBIGD, and GBIEMGD, respectively, resulting in a



total allocation of 11.29 % to EMD. Notably, when we consider all the 40 portfolios listed on the efficient frontier, we observe that EMD consistently receives an allocation in the range of 11.29% to 20.34%.

Lastly, we have included a reference portfolio that does not have any EMD exposure to assess whether adding EMD would benefit a PF. This reference PF invests 30% in SP500, 30% in MSCI, 30% in US Treasuries, 5% in US HY, and 5% in US IG. It is represented by the red dot in figure 2a. This reference PF has an annual volatility of 9.45% and an annual return of 7.72%. If we compare this with PF number 33 on the efficient rand, which has the same risk profile as our reference PF, we see that PF number 33 has a volatility of 9.46% but a significantly higher return of 8.90%. We can infer from the weight allocation that PF number 33 allocates 8.51% to CEMBIBD, 5.26% to EMBIGD, and 4.03% to GBIEMGD.

Therefore, we can conclude that historical data suggests allocating to EMD exposure has been beneficial.

# Optimization with Forward Looking Macro Views – A Structural Shift

In the previous section, we demonstrated that using historical returns would always allocate to EMD exposure in a MVO framework. However, relying solely on past data to predict future market conditions is not ideal, as historical data is inherently backward-looking. To incorporate forward-looking views into the optimization process, we construct a scenario that reflects the emerging structural regime of the U.S. dollar. One of the challenges in portfolio management is translating qualitative expectations into a systematic framework. To address this, we apply Entropy Pooling (EP) suggested by Meucci (2008), which allows portfolio managers' forecasts or views to be expressed as probability distributions and incorporated directly into optimization. This approach yields a new efficient frontier that is consistent with the manager's macro views.

#### Structural Shift - A Weaker DXY

In our forward-looking scenario, we consider both cyclical and structural drivers.

 Cyclical driver: Markets are increasingly pricing in Fed rate cuts due to weaker macroeconomic data, such as disappointing non-farm payrolls. This erodes the interest rate differential between the U.S. and the euro area, supporting EURUSD appreciation.

- Structural shift: Beyond cyclical forces, there are deeper shifts underway that point to a weaker dollar. The U.S. has increasingly weaponized the dollar in geopolitics, most visibly by freezing Russia's reserves after the invasion of Ukraine. While effective as a sanctioning tool, this has raised concerns among other reserve-holding nations about the security of their U.S. assets. As a result, central banks particularly in emerging markets have accelerated diversification away from the dollar and into gold, the euro, and other alternatives. This trend is already evident in the steady decline of the dollar's share of global FX reserves, which has fallen below 60% from over 70% two decades ago.
- Trade policy risks: A more protectionist U.S. stance, including potential broad-based tariffs on imports, could also weigh on the dollar. Tariffs would likely add to domestic inflationary pressures, worsen the U.S. current account balance through retaliatory measures, and erode global confidence in U.S. policy credibility—all of which reduce demand for U.S. assets. The euro, by contrast, stands to benefit as a relatively neutral and stable alternative reserve currency.

Taken together, these cyclical drivers (Fed easing and narrowing interest rate differentials) and structural shifts (erosion of the dollar's reserve dominance and trade policy risks) provide a compelling case for EURUSD to appreciate from 1.17 to 1.22 over the next year.

Figure 3a: Mean-Variance Efficient Frontier Resampling

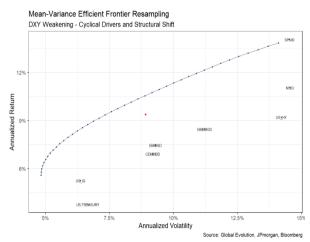
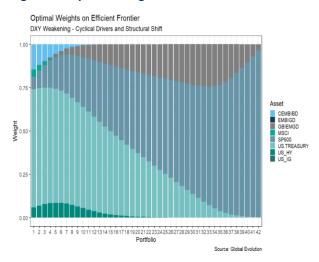


Figure 3b: Optimal Weights on Efficient Frontier



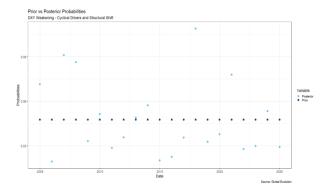
In this scenario, we observe that the higher risk asset classes will likely perform exceptionally well, as demonstrated by the new implied returns and volatilities shown in figure 3a. Specifically, the S&P500 and MSCI are expected to have returns of 14.05 % and 11.05%, respectively, which is higher than the historical distribution. Moreover, all EMD asset classes are expected to achieve significantly higher returns relative to the historical distribution, with GBIEMGD performing exceptionally well due to the positive view on EURUSD.

Upon analyzing the efficient frontier in our scenario, we find that the minimum variance portfolio allocates 14.50% to CEMBIBD due to its attractive volatility profile. However, as we move further out on the risk curve, we observe that the efficient frontier allocates increasingly more to GBIEMGD, as illustrated by the grey bars in figure 3b, as it now has the highest expected return within the EMD universe. When considering all 42 portfolios listed on the efficient frontier, we observe that EMD always receives an allocation ranging from 3.47% to 24.44%.

Finally, the reference portfolio in this scenario would yield an expected return of 9.38% with a volatility of 8.91%. Comparing this with Portfolio number 26, which has the same volatility profile, we find that the latter would yield an expected return of 10.55% with a volatility of 8.89%, while allocating 20.4% to GBIEMGD and 0% to both CEMBIBD and EMBIGD.

Figure 4a highlights the periods in which the Entropy Pooling framework assigns overweight allocations, such as 2006, 2007, 2017, and 2020. Notably, these episodes coincide with phases of EURUSD appreciation, consistent with the directional view established in our analysis.

Figure 4a: Prior vs. Posterior Probabilities



#### Conclusion

This paper has examined the role of Emerging Market Debt (EMD) within a traditional 60/40 portfolio, drawing on both historical evidence and forward-looking scenarios. Historically, EMD has delivered favorable risk-adjusted returns compared to developed market counterparts, while also providing meaningful diversification benefits. Optimization exercises confirm that portfolios consistently allocate to EMD when constructed over more than two decades of data.

Looking ahead, the case for EMD strengthens further under a structural shift in the U.S. dollar regime. The increasing weaponization of the USD, its declining share in global reserves, and the risks associated with U.S. tariff policies all point toward a weaker DXY over time. In our forward-looking scenario analysis, such an environment enhances the performance of higher-risk assets, particularly local-currency EMD, which benefits directly from EURUSD appreciation. The optimization results demonstrate that in this structural regime, EMD allocations are not only sustained but expanded, producing superior portfolio outcomes relative to reference portfolios without EMD.

Therefore, EMD should be regarded not merely as a tactical diversifier, but as a strategic allocation in anticipation of a changing global financial paradigm.





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## Appendix 1 – Mentioned Indices – Definition and Performance

Index	Definition	Index Returns					
		2024	2023	2022	2021	2020	
J.P. Morgan GBI-EM GD	is the J.P. Morgan Government Bond Index for Emerging Markets Global Diversified (J.P. Morgan GBI EM GD): The index is comprehensive global local emerging markets index, and consists of regularly traded, liquid fixed-rate, domestic currency government bonds to which international investors can gain exposure.	-2.38	12.70	-11.69	-8.75	2.69	
J.P. Morgan EMBI GD	is the J.P. Morgan EMBI Global Diversified Index (EMBI GD): The index is a market capitalization-weighted total return index of hard currency (USD, EUR, GBP) denominated Brady bonds, loans, Eurobonds and local market debt instruments traded in emerging markets.	6.54	11.09	-17.78	-1.80	5.26	
J.P. Morgan CEMBI BD	Is the J.P. Morgan Corporate Emerging Market Bond Index Broad Diversified, which track USD denominated debt issued by emerging market corporations. CEMBI BD is a granular asset class with 1.331 bonds of 609 different issuers from 52 different countries.	7.63	9.08	-12.26	0.91	7.13	
MSCI AWCI	is Morgan Stanly Capital International (MSCI) index for all country world. The index is a free float-adjusted market capitalization weighted index designed to measure the combined equity market performance of developed and emerging market countries.	17.49	22.20	-18.36	18.54	16.25	
S&P 500	is the 500 widely held stocks in US equity market. The index is market capitalization-weighted and includes stocks of industrial, financial, utility, and transportation companies.	23.31	24.23	-19.44	26.89	16.26	
US High Yield	is the <b>Bloomberg US Corporate High Yield Bond Index</b> , measuring the USD-denominated, high yield, fixed-rate corporate bond market. Securities are classified as high yield I the middle rating of Moody's, Fitch and S&P is Ba1/BB+/BB+ or below.	8.19	13.45	-11.19	5.28	7.11	
US Treasuries	is the <b>Bloomberg US Treasury: 7-10 Year Index</b> , measuring USD-denominated, fixed-rate, nominal debt issued by the US Treasury with 7-9.999 years to maturity.	-0.70	3.58	-14.89	-3.07	9.98	
US Investment Grade	is the Bloomberg US Corporate Bond Investment Grade Index, measuring the fixed-rate, taxable corporate bond market. It includes USD denominated securities publicly issued by US and non-US industrial, utility and financial issuers.	2.13	8.52	-15.76	-1.04	9.89	