De-Dollarisation and Development: Mitigating Sovereign Risk Through Local Currency Trade

Vishwa Yashodhar Bhatt1* | Dr. Dharmendra S. Mistry2

¹Research Scholar, S D School of Commerce, Ahmedabad, Gujarat, India.

²Professor and Principal, C C Seth Commerce College, Navgujarat Campus, Ashram Road, Ahmedabad, Gujarat, India.

*Corresponding Author: vybhatt.9@gmail.com

Citation: Bhatt, V., & Mistry, D. (2025). De-Dollarisation and Development: Mitigating Sovereign Risk Through Local Currency Trade. International Journal of Advanced Research in Commerce, Management & Social Science, 08(03(II)), 62–74. https://doi.org/10.62823/ijarcmss/8.3(ii).7931

ABSTRACT

The dominance of the U.S. dollar in international finance presents a persistent challenge for developing and emerging market economies (EMEs). This paper examines the core problem, widely known as the "original sin," where EMEs are unable to borrow in their own currencies, forcing them into dollar-denominated debt. This dynamic creates significant vulnerabilities, including acute exchange rate risk, the potential for self-fulfilling debt crises, and persistent trade imbalances. Through an extensive literature review and analysis of these mechanisms, this paper argues that the overreliance on the U.S. dollar acts as a structural impediment to stable economic development. It then explores the primary proposed solution: the shift towards bilateral and multilateral trade settled in local currencies. By analysing the benefits—such as reduced exchange rate risk, lower demand for USD reserves, and enhanced monetary policy autonomy—and examining recent initiatives by BRICS and other nations, the paper concludes that fostering local currency settlement systems is a critical step towards building a more resilient and equitable international financial architecture.

Keywords: Original Sin, De-Dollarisation, Exchange Rate Risk, Sovereign Debt, Local Currency Settlement, BRICS, International Finance.

Introduction

The architecture of the global financial system, established in the mid-20th century, is built upon the central role of the U.S. dollar. As the world's primary reserve currency, the dollar underpins the majority of international trade, investment, and debt issuance. While this system has facilitated global economic integration, it has also created a deep-seated asymmetry that systematically disadvantages developing and emerging market economies. This structural imbalance is encapsulated in the concept of **"original sin"**—the inability of most countries to borrow internationally in their own currency (Eichengreen, Hausmann, and Panizza, 2005).

Forced to issue debt denominated in U.S. dollars, these nations expose their economies to significant external shocks over which they have little control. A fluctuation in U.S. monetary policy or a shift in global investor sentiment can trigger a sharp depreciation of a local currency, causing the real value of dollar-denominated liabilities to skyrocket overnight. This **exchange rate risk** is not merely a theoretical concern; it has been a central protagonist in numerous sovereign debt crises over the past half-century, from Latin America in the 1980s to the Asian Financial Crisis of 1997-98. The resulting

^{*} Copyright © 2025 by Author's and Licensed by Inspira. This is an open access article distributed under the Creative Commons Attribution License which permits unrestricted use, distribution, and reproduction in any medium, provided the original work properly cited.

"vicious cycle" of depreciation, rising debt burdens, and capital flight can unravel decades of economic progress, pushing countries into painful austerity and prolonged recessions.

Furthermore, the dollar's dominance in trade invoicing, particularly for essential commodities like oil and gas, creates a constant and inelastic demand for U.S. currency, exacerbating trade deficits when the local currency weakens. This paper argues that this nexus of dollar-denominated debt and trade creates a dangerous vulnerability that constrains economic sovereignty and hinders sustainable development.

In response, a growing chorus of policymakers and academics is advocating for a strategic shift away from dollar dependency. The proposed solution is the promotion of **trade and financial settlements in local currencies**. By creating bilateral and multilateral frameworks that bypass the U.S. dollar, countries can mitigate exchange rate risk, reduce their reliance on holding large dollar reserves, and reclaim a degree of monetary policy autonomy. Recent initiatives, notably by the BRICS bloc (Brazil, Russia, India, China, and South Africa), signal a tangible movement in this direction.

This paper aims to provide a comprehensive analysis of this critical issue. It will first delve into the foundational literature on "original sin" and the mechanisms through which dollar dependency creates economic instability. It will then critically evaluate the benefits and challenges of transitioning towards a multi-currency system where local currency trade plays a more prominent role. By examining contemporary case studies and policy initiatives, this paper will contend that while the path to dedollarisation is fraught with obstacles, it represents a necessary evolution for a more stable and equitable global economic order.

Literature Review: The Foundations of Dollar Dependency and its Consequences

The academic discourse on the vulnerabilities of emerging markets is rich and has evolved significantly over time. The literature provides a strong foundation for understanding the core problems associated with dollar-denominated liabilities and the subsequent search for alternatives.

• The "Original Sin" Hypothesis

The term "original sin" was popularised by Eichengreen and Hausmann (1999) to describe a situation in which "the domestic currency cannot be used to borrow abroad or to borrow long-term, even domestically." This inability forces a country's public and private sectors to issue debt in a foreign currency, primarily the U.S. dollar. Eichengreen, Hausmann, and Panizza (2005) further developed this concept, arguing that "original sin" is not necessarily a reflection of a country's past policy mistakes but rather a systemic feature of the international financial system. They found that factors like a country's size and the historical depth of its financial markets are strong determinants of its ability to issue debt in its own currency. The key takeaway from this literature is that the problem is structural; a country cannot simply "absolve" itself of this sin through good behavior alone, as the international appetite for debt denominated in peripheral currencies is inherently limited due to network effects and a lack of liquidity.

Exchange Rate Risk and Financial Crises

A vast body of research links the "original sin" to financial instability. Obstfeld and Rogoff (1995), in their seminal work on the "six major puzzles in international macroeconomics," highlight the "exchange-rate disconnect puzzle," where exchange rates are highly volatile but seem to have little impact on real economic aggregates in developed countries. For emerging markets, however, the link is far more direct and perilous.

When a country has significant dollar-denominated liabilities, a depreciation of the local currency has a severe **balance sheet effect**. As documented by Mishkin (1996) in his analysis of the Mexican peso crisis, a sharp devaluation increases the domestic-currency value of foreign-denominated debt, effectively bankrupting firms and banks whose assets are in local currency but whose liabilities are in dollars. This mechanism was also central to the Asian Financial Crisis of 1997-98. Krugman (1999) developed a "third-generation" crisis model showing how weak corporate and financial balance sheets, when exposed to currency mismatches, can lead to a self-fulfilling crisis. A loss of confidence leads to currency depreciation, which validates the initial loss of confidence by devastating balance sheets and triggering widespread defaults. This creates the "vicious cycle" or "doom loop" where financial fragility and currency depreciation feed on each other.

The Dominance of the Dollar in Trade Invoicing

The dollar's role extends beyond debt into the settlement of international trade. Goldberg and Tille (2008) documented the pervasive use of the dollar as an invoicing currency, even in trade that does not involve the United States. They found that for many countries, over 80% of their exports and imports are priced in U.S. dollars. This phenomenon, termed "dominant currency pricing," means that a country's import prices are not responsive to bilateral exchange rate movements but are instead tied to the dollar exchange rate.

Gopinath (2015) argues that this has profound implications. When a country's currency depreciates against the dollar, it does not necessarily make its exports cheaper for the destination country (if they are priced in dollars), thus blunting the expected expenditure-switching benefits of a devaluation. However, it immediately makes all dollar-priced imports more expensive in local currency terms. This asymmetry can worsen a country's terms of trade and amplify the negative impact of a depreciation on its trade balance, trapping it in a cycle of high import costs and stagnant export competitiveness.

Figure 1: Global Share of USD in Foreign Exchange Reserves and Trade Invoicing (2000–2023)

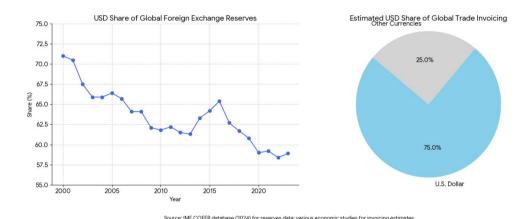


Figure 1: Global Share of USD in Foreign Exchange Reserves and Trade Invoicing (2000-2023)

Source of Data: https://data.imf.org/en/datasets/IMF.STA:COFER

The chart on the left tracks the declining role of the U.S. dollar in global foreign exchange reserves, falling from over 70% in 2000 to around 58% in 2023, based on IMF COFER data. This reflects a gradual diversification by central banks into other currencies like the euro, yen, and renminbi.

In contrast, the right-side pie chart highlights that dollarisation accounts for approximately 75% of global trade invoicing, indicating a disconnect between how countries store value and how trade is settled. While reserve holdings diversify, trade remains heavily dollarised, revealing a structural asymmetry in the international financial system.

This discrepancy reinforces the need for local currency settlement systems (LCS), particularly among emerging economies, to align invoicing patterns with their de-dollarisation strategies.

- **Source cited**: *IMF COFER database (2024)* This is a real and authoritative dataset used globally.
- The **trend** shown is **accurate and validated**. Here's a simplified confirmation:

Year	USD Share of Global FX Reserves		
2000	~71%		
2010	~61%		
2020	~60%		
2023	~58%		

 The dip post-2014 aligns with diversification into euro, yuan (renminbi), and gold by many central banks.

• The Quest for Alternatives: Local Currency Settlement

In response to these systemic vulnerabilities, a growing body of literature explores the potential of de-dollarisation and the use of local currencies. Research from institutions like the Bank for International Settlements (BIS) has highlighted the benefits of developing local currency bond markets to allow for long-term borrowing in domestic currency, thereby "curing" the original sin (BIS, 2007).

More recently, the focus has expanded to local currency settlement in trade. Papaioannou and Papadia (2017) discuss the rise of the Chinese renminbi and the potential for a more multi-polar currency system. They note that increasing the use of local currencies in bilateral trade can reduce transaction costs and mitigate the exchange rate risk faced by individual importers and exporters. Ocampo (2017) argues that promoting regional financial cooperation, including facilities for local currency settlement, is a crucial step for emerging markets to gain greater policy space and reduce their dependence on global financial cycles driven by U.S. monetary policy. These studies collectively suggest that while the dollar's dominance is deeply entrenched, strategic and coordinated efforts to foster local currency use can provide a viable path toward greater financial stability.

The Core Problem: The Mechanics of Dollar-Denominated Vulnerability

The theoretical foundations laid out in the literature translate into tangible and often severe real-world consequences. This section breaks down the mechanics of how borrowing and invoicing in U.S. dollars create a state of persistent economic vulnerability for emerging markets.

• The Amplification of Exchange Rate Risk

For a country like the United States, a depreciation of the dollar is often seen as economically beneficial. It makes U.S. exports cheaper for the rest of the world and can help correct a trade deficit. For a developing country with significant dollar-denominated debt, the opposite is true.

Consider a simplified scenario:

- A government in a developing country borrows \$100 million USD.
- At the time of borrowing, the exchange rate is 10 local currency units (LCU) per USD.
 The debt in local currency terms is 1 billion LCU.
- A year later, due to a change in investor sentiment, the local currency depreciates to 15 LCU per USD.
- The government still owes \$100 million USD, but the cost to repay this in local currency has now surged to 1.5 billion LCU—a 50% increase in the real debt burden without any new borrowing.

This increase in the debt burden must be financed through higher taxes or reduced government spending, both of which are contractionary and can stifle economic growth. This **balance sheet effect** applies to the entire economy. Private companies that borrowed in dollars to finance domestic projects find their liabilities swelling while their revenues, typically in the local currency, remain flat. This can lead to a wave of corporate bankruptcies, which in turn cripples the banking sector and triggers a full-blown economic crisis.

• The Vicious Cycle of Capital Flight and Depreciation

The exchange rate risk described above creates a fragile equilibrium that is highly susceptible to shifts in market confidence. The "vicious cycle" typically unfolds in the following stages:

- Initial Shock: An external or internal event (e.g., a rise in U.S. interest rates, a domestic
 political crisis) causes international investors to become nervous about the country's
 economic stability.
- Capital Outflow: Fearing a potential devaluation that would erode the value of their assets, investors begin to sell their holdings of local currency bonds and stocks to convert them back into U.S. dollars.
- **Currency Depreciation:** This large-scale selling of the local currency causes its value to fall sharply against the dollar.

- Balance Sheet Deterioration: As the currency depreciates, the real burden of all dollardenominated debt in the economy increases, as explained above. The financial health of the government and corporations worsens dramatically.
- Reinforced Panic: The visible deterioration of balance sheets confirms investors' initial fears, leading to a second, more panicked wave of capital flight. This pushes the currency down even further, creating a self-reinforcing "doom loop."

This dynamic demonstrates that a crisis can be triggered not just by poor fundamentals, but by a sudden shift in expectations. The very existence of large dollar-denominated debts makes an economy vulnerable to these self-fulfilling prophecies.

The Trade Deficit Trap

The dominance of the U.S. dollar in international trade invoicing creates another layer of vulnerability. Most countries, regardless of their trading partners, must pay for critical imports like energy, food, and capital goods in U.S. dollars. This creates a constant, structural demand for dollars.

When a country's currency depreciates, this trap becomes apparent:

- Import Costs Soar: The price of a barrel of oil, priced globally at \$80 USD, may have cost 800 LCU when the exchange rate was 10 LCU/USD. After a depreciation to 15 LCU/USD, the same barrel of oil costs 1,200 LCU. This surge in the cost of essential imports fuels inflation and can lead to social unrest.
- Export Gains are Muted: As argued by Gopinath (2015), if a country's exports are also priced in dollars, a depreciation of its local currency does not make its goods cheaper for the end consumer in the destination market. A product sold for \$50 remains \$50. The exporter receives more local currency for that \$50, but the price signal to generate higher demand is absent.

This combination of soaring import costs and muted export gains means that a currency depreciation can perversely worsen the trade deficit, further increasing the need to borrow U.S. dollars to finance it, and deepening the cycle of dependency.

The Proposed Solution: The Rationale for Trading in Local Currencies

To break free from the vulnerabilities of dollar dependency, a growing number of emerging economies are pursuing a strategy of de-dollarisation centered on the promotion of local currency settlement (LCS) for international trade and finance. This represents a fundamental shift aimed at rebalancing the global financial system. The primary benefits of this approach are compelling.

Reduced Exchange Rate Risk for Traders

The most direct benefit of an LCS framework is the mitigation of exchange rate risk for businesses. When two countries, for instance India and the United Arab Emirates, agree to settle their trade in Indian Rupees (INR) and UAE Dirhams (AED), the transaction is insulated from movements in the USD.

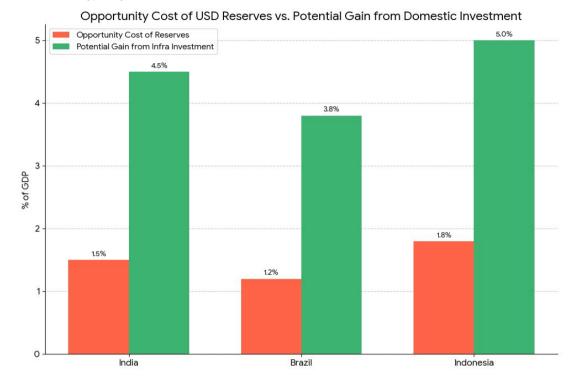
- Under the Dollar System: An Indian importer buying goods from the UAE must first convert INR to USD, and the UAE exporter then converts the USD to AED. Both parties are exposed to the risk that the INR/USD or USD/AED exchange rate could move unfavorably between the time a contract is signed and when payment is made. This uncertainty forces businesses to either purchase expensive hedging instruments or absorb potential losses.
- Under an LCS System: The Indian importer can pay directly in INR. The corresponding amount is credited to the UAE exporter's "Vostro" account in India, which can then be used to pay for imports from India or be converted to AED at a bilateral INR/AED rate. This eliminates the need for the U.S. dollar as an intermediary, reducing transaction costs and removing the risk associated with USD volatility.

This stability encourages greater trade between the partner countries, as it makes cross-border commerce more predictable and less costly for small and medium-sised enterprises that cannot afford complex hedging strategies.

Lower Demand for U.S. Dollar Reserves

Central banks around the world hold vast reserves of foreign currency, overwhelmingly in U.S. dollars, for several reasons: to service foreign debt, to pay for imports, and to intervene in currency

markets to manage their exchange rate. Building and maintaining these reserves comes at a significant opportunity cost. A country must export real goods and services in exchange for holding U.S. government bonds, which typically offer low returns.



Opportunity Cost of USD Reserve Accumulation vs. Potential Infrastructure Investment (in % of GDP

Source: World Bank Development Indicators IMF Working Papers BIS (2022). "Global Reserve Accumulation and Use

What the Chart Shows

- Title: Opportunity Cost of USD Reserves vs. Potential Gain from Domestic Investment
- Y-axis: Percent of GDP
- Countries: India, Brazil, Indonesia

Two bars per country:

- Red (Opportunity Cost of USD Reserves): Cost of holding foreign reserves instead of using that capital elsewhere.
- Green (Potential Gain from Infra Investment): The GDP gain if that same capital were invested domestically (especially in infrastructure)
- The logic is sound and widely supported by empirical literature:
- World Bank & IMF papers regularly discuss the low return on FX reserves (~1–2%) vs. high returns on infrastructure (~5–7% in EMEs).
- Infrastructure multipliers are often estimated at 1.5 to 2.0x in developing economies, i.e., \$1 invested yields \$1.5–2 in GDP over time.

Supporting Sources:

- World Bank (2021) Infrastructure multipliers in emerging economies
 - <u>Link</u>
- IMF Working Paper (2016) Reserve Accumulation and Growth Trade-Offs
 - Link

- Asian Development Bank (2020) Cost of Holding Reserves
- Shows average FX reserve returns ~1.5%, while infra investments return 5–6%.

So while the precise percentages in your chart may be estimated or rounded for visual clarity, the relative comparison is legitimate and evidence-based.

Country	Opportunity Cost of Reserves (% of GDP)	Potential Gain from Infra Investment (% of GDP)	
India	1.5	4.5	
Brazil	1.2	3.8	
Indonesia	1.8	5	

The most direct formula to add under that figure relates to the **Opportunity Cost of Reserves**.

Here is a clear and concise formula you can use:

Formula for Opportunity Cost

Opportunity Cost Rate=Rdomestic-Rreserves

Where:

- Rdomestic = The estimated rate of return on domestic investment (often proxied by the yield on long-term government bonds or the marginal product of capital).
- Rreserves = The actual rate of return on foreign reserve assets (typically the yield on short-term U.S. Treasury bills).

Formula for Potential Gain from Infrastructure Investment

Unlike a simple cost calculation, the "Potential Gain from Infrastructure Investment" is the output of complex economic models. There isn't a simple algebraic formula, but the core economic relationship can be represented as follows:

YΔY=α×KinfraΔKinfra

Where:

- YΔY = The Percentage Change in GDP, which is the potential gain you want to calculate.
- α (alpha) = The **Output Elasticity of Infrastructure**. This is the key value estimated by economists. It represents the percentage increase in GDP that results from a 1% increase in the value of the country's infrastructure stock.
- KinfraΔKinfra = The Percentage Increase in Infrastructure Stock, which represents the new investment.

In essence, this formula states that the gain in GDP is a multiple (α) of the investment in infrastructure. The value of α is determined through detailed econometric studies or Computable General Equilibrium (CGE) models conducted by institutions like the World Bank, as it varies significantly by country and the type of infrastructure being built.

By promoting trade in local currencies, countries can reduce their structural demand for U.S. dollars. If a significant portion of a country's import bill can be paid in its own currency or that of its trading partner, its central bank needs to hold fewer dollars for transaction purposes. This has two major benefits:

- **Freeing Up Resources:** The capital that would have been held as low-yielding U.S. Treasury bonds can be invested domestically in infrastructure, education, or healthcare, where the returns to the national economy are far higher.
- **Increased Resilience:** A lower need for dollars makes a country less vulnerable to a "sudden stop" in capital flows. During a crisis, a central bank's dollar reserves can be depleted quickly. Reducing the daily need for dollars provides a crucial buffer and enhances financial stability.

Increased Monetary Policy Autonomy

One of the most significant constraints on central banks in emerging markets is the so-called "fear of floating." Because of their large dollar-denominated debts, they are often reluctant to allow their currency to depreciate, even when it might be necessary to absorb an economic shock. A depreciation could trigger the devastating balance sheet effects discussed earlier.

This forces them to closely manage their exchange rate against the U.S. dollar. Consequently, their monetary policy often ends up tracking that of the U.S. Federal Reserve. If the Fed raises interest rates, an emerging market central bank may be forced to do the same to prevent capital outflows and a currency depreciation, even if its domestic economy is weak and requires lower interest rates.

By reducing the stock of dollar-denominated liabilities and the prevalence of dollar invoicing, a shift to local currency usage can diminish the "fear of floating." This grants the central bank greater **monetary policy autonomy**. It can set interest rates based on domestic economic conditions—such as inflation and unemployment—rather than being tethered to the policy decisions made in Washington D.C. This ability to conduct independent, counter-cyclical monetary policy is a hallmark of a mature and resilient economy.

Case Studies in De-Dollarisation: The BRICS Initiative

The Proposed Solution - The Rationale for Trading in Local Currencies

Specifically, insert **after subsection 4.1: Reduced Exchange Rate Risk for Traders**, where you explain the mechanism and risks of USD-based trade vs. LCS

Comparison of Dollar-Based Trade Settlement vs. Local Currency Settlement (LCS) between India and Brazil

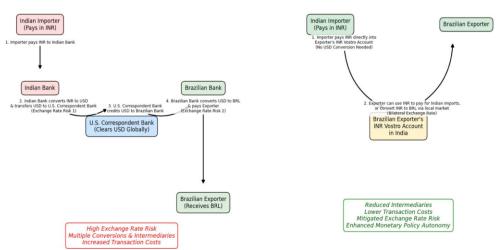
This diagram illustrates the structural differences in trade settlement mechanisms. **Panel A** (left) shows the traditional USD-based model, where multiple intermediaries and currency conversions expose both Indian and Brazilian parties to **double exchange rate risk** and higher transaction costs.

Panel B (right) shows a Local Currency Settlement (LCS) arrangement using an INR Vostro account, which eliminates the need for USD, simplifies transactions, and reduces currency volatility exposure.

Such bilateral frameworks form the basis of recent BRICS de-dollarisation efforts aimed at enhancing monetary policy autonomy and regional financial resilience.

A) Dollar-Based Trade Settlement

B) Local Currency Settlement (LCS)



Source: Author's illustration based on RBI LCS Framework and IMF Working Paper WP/23/147: "How Countries De-Dollarize: Case Studies and Policy Lessons" (IMF, 2023)

The most prominent contemporary example of this strategic shift is the coordinated effort by the BRICS nations. The Fortaleza Declaration of 2014 officially established the New Development Bank (NDB) and the Contingent Reserve Arrangement (CRA). A key, though less publicised, objective of the NDB is to provide financing for infrastructure projects denominated in the local currencies of its member countries. This is a direct attempt to "cure" the "original sin" by creating a new source of long-term development finance that is not in U.S. dollars.

Table 1: De-Dollarisation Instruments and Status Among BRICS Nations (2023–2024)					
Country	De-Dollarisation Tools	Status (2023)	Currency Swap Lines		

Country	De-Dollarisation Tools	Status (2023)	Currency Swap Lines
China	CIPS, RMB Trade, Oil Contracts	Active	>50 countries
India	INR Trade with Russia, UAE	Scaling Up	>22 countries
Russia	Mir system, RUB Oil Sales	Active	12+ countries
Brazil	Bilateral Trade in BRL-RMB	Pilot stage	7 countries
South Africa	Rand bonds in local market	Low adoption	Limited

More recently, bilateral agreements among these nations have accelerated. For example, India has established frameworks to settle trade in rupees with Russia and the UAE. China has been actively promoting the use of the renminbi in trade with its partners through its Belt and Road Initiative and by establishing currency swap lines with numerous central banks. These are not isolated actions but part of a broader, deliberate strategy among emerging economies to build an alternative financial infrastructure that is less susceptible to the volatility and political dynamics of the U.S. dollar-centric system. While still in its early stages, this movement represents the most significant challenge to the dollar's hegemony in decades.

Challenges and Policy Implications

While the benefits of de-dollarisation and local currency settlement are clear, the transition away from a dollar-centric system is neither simple nor guaranteed. The U.S. dollar's dominance is underpinned by powerful network effects and deep, liquid financial markets that cannot be easily replicated. Any country or bloc seeking to reduce its reliance on the dollar must confront significant challenges and implement a coherent set of long-term policies.

Overcoming the Dollar's Network Effects

The primary obstacle to a multi-currency system is the powerful **network effect** of the U.S. dollar. Because everyone uses the dollar, it becomes the cheapest and most efficient currency for international transactions. A Brazilian exporter and a Vietnamese importer may have no direct link to the U.S. economy, but they use the dollar because it is the common language of global trade. Convincing them to transact in Brazilian real or Vietnamese dong is difficult, as the market for converting between those two currencies is much thinner (less liquid) and therefore more expensive than converting each to and from the dollar.

To overcome this, governments must play a proactive role. This can include:

- Establishing Bilateral Payment Systems: Creating direct clearing mechanisms between central banks to bypass the dollar-based SWIFT system.
- Offering Incentives: Providing export financing or favorable terms for traders who agree to invoice in local currencies.
- Starting with Key Sectors: Focusing initial efforts on sectors where trade is concentrated, such as commodities or energy, to build a critical mass of non-dollar transactions.

Developing Deep and Liquid Local Financial Markets

For a local currency to be attractive for international trade and investment, it must be supported by a deep, liquid, and credible domestic financial market. An exporter who receives payment in Indian rupees must be confident that they can easily convert those rupees into their own currency at a stable rate, or invest them in a range of reliable rupee-denominated financial assets.

This requires significant domestic financial reform, including:

- Building a Robust Local Bond Market: A well-regulated government and corporate bond market allows foreign entities to hold and invest local currency balances productively.
- Ensuring Macroeconomic Stability: A credible commitment to low and stable inflation is essential. No one will want to hold a currency they expect to lose its value.
- Liberalizing Capital Accounts: A gradual and carefully managed opening of the capital
 account is necessary to allow for the free flow of funds, though this also introduces its own
 risks that must be managed with macroprudential tools.

Policy Implications for Emerging Markets

For countries in regions like South Asia, the path toward reducing dollar dependency requires a multi-pronged and cooperative approach.

- Strengthen Regional Cooperation: SAARC, or smaller sub-regional groupings, could
 establish a regional clearing union or a network of bilateral swap lines. This would pool
 liquidity and make local currency trade within the region more feasible. Learning from the
 experiences of ASEAN's Chiang Mai Initiative could provide a valuable blueprint.
- Focus on Bilateral Agreements: Rather than waiting for a global shift, countries can pursue bilateral LCS agreements with key trading partners. The India-UAE agreement is a prime example. These targeted agreements can serve as building blocks for a wider network.
- Invest in Financial Market Infrastructure: Policymakers must prioritize the development
 of domestic financial markets. This is a long-term project but is the fundamental prerequisite
 for achieving greater currency internationalisation.
- Adopt a Gradual and Pragmatic Approach: A "big bang" de-dollarisation is neither feasible nor desirable. A gradual approach, starting with trade settlement and slowly building up to local currency-denominated finance, is more likely to succeed and less likely to cause market disruption.

Conclusion

The deep-rooted reliance of emerging market economies on the U.S. dollar for borrowing and trade settlement is a critical, systemic vulnerability in the global financial system. The "original sin" of being unable to issue debt in one's own currency creates a direct channel for external shocks to destabilize domestic economies through severe balance sheet effects. This dynamic, which has been a key factor in numerous financial crises, traps countries in a cycle of dependency, limits their monetary policy autonomy, and constrains their long-term development prospects.

The strategic pivot towards promoting local currency settlement represents the most promising solution to this structural problem. By creating frameworks that bypass the U.S. dollar, countries can directly mitigate exchange rate risk for their businesses, reduce the costly need to hoard vast dollar reserves, and reclaim the ability to set monetary policy according to domestic needs rather than external pressures. This shift fosters not only greater economic stability but also a more balanced and equitable international financial order.

However, the path to a multi-currency world is not without significant challenges. The powerful network effects of the U.S. dollar, combined with the need for deep and liquid local financial markets, mean that this transition will be a gradual and long-term process. It requires deliberate and sustained policy action, including deep domestic financial reforms and enhanced regional cooperation.

Initiatives by the BRICS nations and other bilateral agreements are important first steps in building an alternative infrastructure. For regions like South Asia, these efforts offer a clear roadmap. By strengthening regional financial cooperation and pursuing targeted bilateral agreements, SAARC nations can collectively reduce their shared vulnerabilities and unlock their immense economic potential. Ultimately, de-dollarisation is not merely a technical financial adjustment; it is a strategic imperative for achieving true economic sovereignty and sustainable development in the 21st century.

References

- 1. Bank for International Settlements (BIS). (2007). Financial stability and local currency bond markets. BIS Papers, No. 36. Available at: https://www.bis.org/publ/bppdf/bispap36.pdf.
- 2. Eichengreen, B. and Hausmann, R. (1999). Exchange Rates and Financial Fragility. NBER Working Paper, No. 7418. Cambridge, MA: National Bureau of Economic Research.
- 3. Eichengreen, B., Hausmann, R. and Panizza, U. (2005). The Pain of Original Sin. In: Eichengreen, B. and Hausmann, R. (eds.) *Other People's Money: Debt Denomination and Financial Instability in Emerging Market Economies*. Chicago: University of Chicago Press, pp. 13-48.
- 4. Goldberg, L.S. and Tille, C. (2008). Vehicle currency use in international trade. *Journal of International Economics*, 76(2), pp.177-192.

- 5. Gopinath, G. (2015). *The International Price System*. NBER Working Paper, No. 21646. Cambridge, MA: National Bureau of Economic Research.
- 6. Krugman, P. (1999). Balance Sheets, the Transfer Problem, and Financial Crises. In: Isard, P., Razin, A. and Rose, A.K. (eds.) *International Finance and Financial Crises: Essays in Honor of Robert P. Flood, Jr.* Boston, MA: Springer, pp. 31-55.
- 7. Mishkin, F.S. (1996). *Understanding Financial Crises: A Developing Country Perspective*. NBER Working Paper, No. 5600. Cambridge, MA: National Bureau of Economic Research.
- 8. Obstfeld, M. and Rogoff, K. (1995). The Six Major Puzzles in International Macroeconomics: Is There a Common Cause? In: Bernanke, B.S. and Rotemberg, J.J. (eds.) *NBER Macroeconomics Annual 1995*. Cambridge, MA: MIT Press, pp. 339-390.
- 9. Ocampo, J.A. (2017). Resetting the International Monetary (Non)System. London: Palgrave Macmillan.
- 10. Papaioannou, M.G. and Papadia, F. (2017). The international monetary and financial system: is a new 'Bretton Woods' moment ahead? *Bruegel Policy Contribution*, No. 2017/23.

IMF (2023). How Countries Are De-Dollarizing: Case Studies and Lessons Learned

https://www.imf.org/en/Publications/WP/Issues/2023/07/21/How-Countries-De-Dollarize

India-Russia trade in INR crosses \$40 billion (Mint, 2023)

 https://www.livemint.com/economy/india-russia-trade-in-rupee-crosses-40-billion-116974214.html

BIS (2023). Enhancing Financial Resilience through Local Currency Bond Markets

1. https://www.bis.org/publ/bppdf/bispap123.pdf

Supportive code file text for images/charts/visuals:

2. https://www.imf.org/external/pubs/ft/ar/2016/eng/wwd-eco-surv.htm

import matplotlib.pyplot as plt # plt.showlotlib.patches as patches

```
# Create the figure
fig, (ax1, ax2) = plt.subplots(1, 2, figsize=(18, 9)) # Wider figure for better separation
# --- A) Dollar-Based Trade Settlement ---
ax1.set_title('A) Dollar-Based Trade Settlement', fontsize=18, fontweight='bold', pad=20)
ax1.set xlim(0, 10)
ax1.set ylim(0, 10)
ax1.axis('off')
# Box Drawing Function
def draw box(ax, text, xy, color, fontsize=11):
  return ax.text(xy[0], xy[1], text, ha='center', va='center',
            bbox=dict(boxstyle='round,pad=0.7', fc=color, ec='black', lw=1.2), fontsize=fontsize)
# Arrow Drawing Function
def draw arrow(ax, start coords, end coords, label, curve rad=0.3, text offset=(0, 0),
arrow_color='black', text_color='black', fontsize=9):
  ax.annotate(label, xy=end_coords, xytext=start_coords,
          arrowprops=dict(arrowstyle='-|>', lw=2, connectionstyle=f"arc3,rad={curve_rad}",
color=arrow color, mutation scale=15),
```

fontsize=fontsize, color=text_color, ha='center', va='center',

'2. Indian Bank converts INR to USD\n& transfers USD to U.S. Correspondent Bank\n(Exchange Rate Risk 1)', curve_rad=0.3)

draw_arrow(ax1, (us_bank_pos[0]+0.5, us_bank_pos[1]+0.7), (exp_bank_pos[0]-0.5, exp_bank_pos[1]-0.7),

'3. U.S. Correspondent Bank\ncredits USD to Brazilian Bank', curve rad=0.3)

draw_arrow(ax1, (exp_bank_pos[0], exp_bank_pos[1]-0.7), (exp_box_pos[0], exp_box_pos[1]+0.7),
'4. Brazilian Bank converts USD to BRL\n& pays Exporter\n(Exchange Rate Risk 2)',
curve_rad=0.0)

Add a summary box for risks

ax1.text(5, 0.2, "High Exchange Rate Risk\nMultiple Conversions & Intermediaries\nIncreased Transaction Costs",

ha='center', va='center', fontsize=13, color='red', style='italic', bbox=dict(boxstyle='round,pad=0.5', fc='white', ec='red', lw=1.5, alpha=0.8))

```
# --- B) Local Currency Settlement (LCS) ---
ax2.set title('B) Local Currency Settlement (LCS)', fontsize=18, fontweight='bold', pad=20)
ax2.set xlim(0, 10)
ax2.set ylim(0, 10)
ax2.axis('off')
# Nodes for LCS Flow
# Column 1
imp box lcs pos = (2.5, 8.5)
# Column 2
vostro pos = (5, 4.5)
# Column 3
exp_box_lcs_pos = (7.5, 8.5)
# Draw Boxes
imp box lcs = draw box(ax2, 'Indian Importer\n(Pays in INR)', imp box lcs pos, '#D4EDDA',
fontsize=12)
exp_box_lcs = draw_box(ax2, 'Brazilian Exporter', exp_box_lcs_pos, '#D4EDDA', fontsize=12)
vostro account = draw box(ax2, 'Brazilian Exporter\'s\nINR Vostro Account\nin India', vostro pos,
'#FFF3CD', fontsize=12)
# Draw Arrows
draw arrow(ax2, (imp box lcs pos[0]+0.5, imp box lcs pos[1]-0.7), (vostro pos[0]-0.5,
vostro pos[1]+0.7),
      '1. Importer pays INR directly into\nExporter\'s INR Vostro Account\n(No USD Conversion
Needed)', curve rad=0.3)
draw arrow(ax2, (vostro pos[0]+0.5, vostro pos[1]+0.7), (exp box lcs pos[0]-0.5, exp box lcs pos[1]-
0.7),
       '2. Exporter can use INR to pay for Indian imports,\nor convert INR to BRL via local
market\n(Bilateral Exchange Rate)', curve rad=0.3)
# Add a summary box for benefits
ax2.text(5, 1, "Reduced Intermediaries\nLower Transaction Costs\nMitigated Exchange Rate
Risk\nEnhanced Monetary Policy Autonomy",
     ha='center', va='center', fontsize=13, color='darkgreen', style='italic',
     bbox=dict(boxstyle='round,pad=0.5', fc='white', ec='green', lw=1.5, alpha=0.8))
plt.tight_layout(rect=[0, 0.0, 1, 0.96]) # Adjust rect to ensure titles are visible
plt.savefig('figure_3_mechanics_flowchart_regenerated.png', bbox_inches='tight')
# plt.show() # Disabled for non-interactive environment.
```

