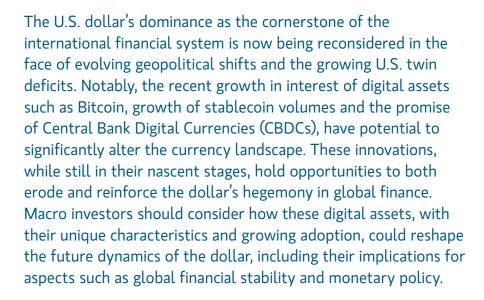
Morgan Stanley

INVESTMENT MANAGEMENT

Digital (De)Dollarization?

INSIGHTS | DIGITAL ASSETS | January 2024



Nation States Target Dollar Diversification

Despite the U.S. contributing approximately 25% to global GDP, the U.S. dollar currently makes up nearly 60% of global foreign exchange reserves, a significant lead over its closest competitor, the euro. However, this dominance is being increasingly scrutinized. Recent U.S. monetary policies, combined with the strategic use of economic sanctions, have prompted some nations to consider alternatives to the greenback.

In parallel, the European Union is actively working to bolster the euro's role in international trade, aiming to provide a viable alternative to the dollar, especially in energy transactions and other key commodities. This effort is part of a broader strategy to enhance the euro's global standing, which could further diversify currency dependencies in international markets.

Moreover, China is advancing the yuan in international trade, particularly through its Cross-Border Interbank Payment System (CIPS), challenging the dollar-centric Clearing House Interbank Payments System (CHIPS). This initiative has seen success, with a notable increase in the yuan's share in global FX turnover and its use in commodity trade settlements, however global foreign exchange reserve



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balances of yuan remain small around 2.5% at time of publishing.

Inter-governmental organizations such as BRICS (comprising Brazil, Russia, India, China and South Africa), the Association of Southeast Asian Nations (ASEAN), the Shanghai Cooperation Organization (SCO), and the Eurasian Economic Union, which collectively represent a significant portion of global GDP, are also expressing interest in using local currencies for trade invoicing and settlements. Some members have shown a willingness to trade in yuan, further indicating a shift in global currency dynamics.

Structural reforms and new settlement systems are essential for currencies like the yuan and euro to challenge the global dominance of the dollar. However, a clear shift towards reducing dollar-dependency is evident, simultaneously fueling interest in digital currencies such as Bitcoin, stablecoins, and CBDCs.

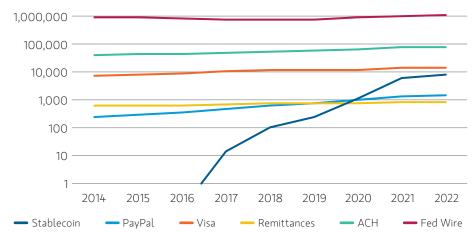
Bitcoin: From an Internet Forum Idea to a Sovereign Reserve Asset

Bitcoin, now 15 years old, kickstarted the digital asset movement. Its appeal lies in its capped supply, algorithmic governance, and a decentralized ledger, or blockchain, independent of central banks' influence. Despite regulatory challenges, Bitcoin's adoption has been remarkable. As of 2023, it is estimated that there are 106 million Bitcoin owners worldwide. Corporations like Tesla have incorporated Bitcoin into their balance sheet holdings, while El Salvador's adoption of Bitcoin as legal tender and a reserve currency marks a significant step in nationallevel acceptance. The presence of Bitcoin ATMs in 84 countries further demonstrates its growing international

DISPLAY 1

Stablecoin Volumes Are Comparable to Existing Financial Systems

Annual Volume of Stablecoin vs Other Financial Systems (USD Bn)



Source: Nic Carter - Castle Island Ventures, Coinmetrics, World Bank, Federal Reserve, Bloomberg, NACHA.

reach. In terms of global scale, Bitcoin's market capitalization is currently around the value of Switzerland's GDP and, at its peak in 2021, surpassed that of Saudi Arabia.

The adoption of Bitcoin beyond speculative purposes continues to evolve. U.S. regulators in January gave the green light to BlackRock and 10 other asset managers to offer spot Bitcoin exchange-traded funds (ETF), a potential paradigm shift in the global perception and use of digital assets.

Stablecoins: Crypto's Killer App?

Stablecoins, particularly those pegged to the U.S. dollar, have risen as a critical component to facilitate trading digital assets like Bitcoin. Designed initially for cryptocurrency traders, these stablecoins facilitate 24/7 trading and near-instant settlement on blockchain networks, offering a more efficient alternative to traditional financial systems. Their utility extends beyond trading, serving as reliable value storage and a bridge between crypto and traditional banking, while offering benefits in cost, security,

utility and efficiency in comparison to physical cash.

The global adoption of dollar-linked stablecoins has seen exponential growth. In 2022, they processed transactions close to \$10 trillion on public blockchains, rivaling traditional payment giants like PayPal and even Visa. This has prompted major financial service companies to adapt. For instance, Visa's integration of Circle's USD stablecoin (USDC) on Solana and PayPal's introduction of its PayPal USD (PYUSD) illustrate the shift towards embracing blockchain efficiency in payments and cross-border transactions (*Display 1*).

With their increasing importance, dollar backed stablecoins are set to have a profound impact on the financial sector, potentially reshaping how money is moved across borders. Rather than challenge the dollar's dominance, their continued evolution and growing acceptance by mainstream financial entities underscore their potential to significantly alter the landscape of global finance and in fact reinforce the dollar as the dominant global currency.

CBDCs: Nationalization and Centralization of Stablecoins

The rapid adoption of stablecoins has spurred global interest in Central Bank Digital Currencies (CBDCs). By mid-2023, 111 countries, representing over 95% of global GDP, are actively exploring CBDCs, marking a significant increase from just a few years prior. Unlike decentralized cryptocurrencies and stablecoins, CBDCs centralize control over the underlying infrastructure and convert their nation's currency into a purely digital form, equivalent to traditional fiat currency. Issued and regulated by central banks, CBDCs aim to modernize financial systems by leveraging the efficiency, transactional savings, and the benefits of distributed ledger technology (DLT), a permissioned version of blockchain technology, while ensuring oversight and control. Various studies have also highlighted an opportunity to leverage CBDCs to extend financial access to unbanked populations.

Countries like the Bahamas and Nigeria have already launched digital currencies, though uptake has been limited.
China's introduction of the digital yuan (e-CNY) in 2020 marked a significant

step forward, with transactions using e-CNY reaching 1.8 trillion yuan by July. Although this represents just 0.16% of China's cash in circulation, a notable milestone was the first international crude oil transaction settled in e-CNY by PetroChina International Corp Ltd at the Shanghai Petroleum and Natural Gas Exchange. Brazil is also advancing in this space, planning to launch a pilot for its digital currency, DREX. This initiative which will use DLT for wholesale interbank transactions. follows the success of the countries popular PIX network. PIX offers instant, free electronic fund transfers using QR codes and easily remembered IDs. The DREX initiative is poised to facilitate transactions based on tokenized bank deposits, highlighting the evolving role of digital currencies in central banking.

As CBDCs become more widely adopted and technologically advanced, they hold the potential to establish a unified standard for cross-border payments, which could diminish the reliance on traditional intermediaries like SWIFT and the use of dominant currencies such as the dollar. Furthermore, CBDCs can enable significant innovation in

financial services, such as the use of smart contracts for automating payments, making the concept of programmable money a practical reality. The mBridge project, led by the Bank for International Settlements and involving central banks from China, Hong Kong, Thailand, and the UAE, exemplifies the potential of smart contracts in facilitating efficient and secure cross-border settlements. The ongoing development and increasing adoption of CBDCs promise to reshape the global financial system, potentially influencing not just monetary transactions but also broader economic and geopolitical dynamics.

Navigating the Evolving Global Currency Landscape

As the search by nation states for alternatives to the dollar continues, emerging digital currencies and stablecoins are fast developing into viable alternatives to traditional cash and in some cases, fiat currencies. This shift, influenced by U.S. foreign and monetary policies and global competition, is driving the move away from the dollar in crossborder transactions and central bank reserves (*Display 2*).

DISPLAY 2
Emerging Digital Currencies May Reshape Global Financial System

	CBDC	E-MONEY	STABLECOINS	BITCOIN
Examples:	Digital Yuan	PayPal, Square	Tether, USD Coin	Bitcoin
Issued / Managed by	Central Bank	Commercial Organisation (E-Money licenced)	Private Organisation (currently unregulated)	Decentralized
Backed by	Central Bank Reserves	Cash Deposits	Cash Deposits and/or mix of other Liquid Assets	Unbacked
Value representation	Distributed Token or Centralized Account	Centralized Account	Distributed Token	Distributed Token
Programmability	Natively via Smart Contracts	Indirectly via API Integration	Natively via Smart Contracts	Natively via Smart Contract (needs wrapping)
Self-custody possible?	TBC	No	Yes	Yes

Source: Morgan Stanley Investment Management

Countries and major institutions are increasingly recognizing the need to embrace these technological advancements for their core business processes. This integration not only validates the technology and business use cases but also marks a transition towards more efficient, faster, and costeffective international transactions.

While changes in global trade and currency usage are likely to be gradual during the early adoption stages of these digital solutions, they

are expected to gain mainstream acceptance over time. It is imperative for global investors to closely monitor these developments, adapting their strategies to leverage opportunities in global markets and transformative financial technologies.

As the world adjusts to these technological advancements, understanding the interplay and nuances between traditional fiat currencies, Bitcoin, E-Money, and stablecoins becomes crucial.

This dynamic is set to significantly influence the future of international trade and finance, potentially reshaping the global economic and financial landscape. Investors and policymakers alike must pay attention and keep informed with the rapidly changing digital asset ecosystem, considering wide-ranging implications on global businesses and nation-states, as well as the macro investor landscape.

Risk Considerations

Digital assets, sometimes known as cryptocurrency, are a digital representation of a value that function as a medium of exchange, a unit of account, or a store of value, but generally do not have legal tender status. Digital assets have no intrinsic value and there is no investment underlying digital assets. The value of digital assets is derived by market forces of supply and demand, and is therefore more volatile than traditional currencies' value. Investing in digital assets is risky, and transacting in digital assets carries various risks, including but not limited to fraud, theft, market volatility, market manipulation, and cybersecurity failures—such as the risk of hacking, theft, programming bugs, and accidental loss. Additionally, there is no guarantee that any entity that currently accepts digital assets as payment will do so in the future. The volatility and unpredictability of the price of digital assets may lead to significant and immediate losses. It may not be possible to liquidate a digital assets position in a timely manner at a reasonable price.

Regulation of digital assets continues to develop globally and, as such, federal, state, or foreign governments may restrict the use and exchange of any or all digital assets, further contributing to their volatility. Digital assets stored online are not insured and do not have the same protections or safeguards of bank deposits in the US or other jurisdictions. Digital assets can be exchanged for US dollars or other currencies, but are not generally backed nor supported by any government or central bank.

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