### Securities Services





# FUTURE OF CUSTODY CONTINUED

After more than a decade of dealing with unprecedented low interest rates – institutional investors are now re-positioning their portfolios to insulate themselves against looming inflationary risk and geopolitical tensions. A growing number of investors have recently started scoping out ever more esoteric asset classes – including digital assets. In a recent discussion led by Nadine Teychenne, Citi Securities Services' Global Lead Digital Assets, a number of leading digital asset custodians shared their insights into the dynamics shaping the nascent market's development.

# Digital assets: Moving beyond the retail fringes

Digital assets are diverse in nature and can be compartmentalised into four separate categories. The most commonly traded type of digital asset is cryptocurrencies (e.g., Bitcoin, Ethereum) – whose market capitalisation increased by \$1.5 trillion in 2021 to reach \$2.3 trillion¹. Similarly, StableCoins – a crypto-currency whose value is collateralised by a real asset – grew to \$180 billion last year² while the market capitalisation of NFTs (non-fungible tokens) – a non-interchangeable unit of value stored on a Blockchain – hit \$22 billion last year. And finally, there are security tokens – a digital, fractionalised representation of an asset which is issued, traded and settled on a Blockchain. While trading in security tokens remains limited, experts are bullish the market will benefit from strong growth in the future.

Whereas previously, digital assets were overwhelmingly traded by retail investors, they are now becoming more popular among institutions. "We have seen a notable shift in our dialogue with institutions about digital assets," comments Teychenne. This is also evidenced in the 2021 Fidelity Digital Assets Institutional Investor Digital Assets Study.

Manuel Nordeste, Director of International Business Development at Fidelity Digital Assets<sup>SM</sup>, says the asset manager's flagship study found 56% of European institutions own digital assets, as do 71% of allocators in Asia. In Europe, this represents an 11-percentage point increase since 2020. According to the Fidelity report: "Asian investors have had a more positive view of digital assets and were early adopters of more traditional digital payments. For example, in China, a projected 32.7% of point-of-sale payments are made via mobile – double the UK (15.3%) and US (15%)."

## Institutions tread cautiously into digital assets

Attitudes towards digital assets have undergone a marked transformation in the institutional client segment. "When I first joined Coinbase in 2017, our institutional business was really only serving family offices, high-networth-individuals and market makers. Today, we have penetrated nearly every major institutional client segment including hedge funds, asset management companies and corporates. Right now, we are serving over 10,000 institutional clients," says Kayvon Pirestani, Head of APAC Institutional Sales & COO Coinbase Singapore.

<sup>&</sup>lt;sup>1</sup> Bloomberg (December 20, 2021) Crypto barrels towards 2022 after adding \$1.5 trillion in value

<sup>&</sup>lt;sup>2.</sup> Coin Telegraph (February 23, 2022) Total Stablecoin supply hits \$180 billion - report



#### Looking to the future - De-Fi

"Looking ahead, there is growing interest about the potential of decentralised finance (DeFi), an umbrella term denoting protocols or applications built on distributed ledger technology (DLT) which automate financial services in code without the need for traditional intermediaries, for example, lending (Aave) and exchanges (Uniswap)," says Teychenne.

Could De-Fi disrupt not just capital markets but also consumer banking and insurance through its digital peer-to-peer capabilities? Today, there is approximately \$243 billion in total value locked into the De-Fi markets, although experts believe this will dramatically increase over the next few years.<sup>3</sup>

Quaglini argues De-Fi – through the introduction of standardised smart contracts – could remove intermediary providers from a number of day-to-day activities. "Take a lending or borrowing transaction. All that has to happen in a De-Fi environment is that a couple of lines of code need to be deployed on a Blockchain, and then the transaction is executed and settled instantaneously and automatically," he explains.

"On the flip-side, digital assets are still a fraction of the size of the gold market and an even smaller fraction of the \$90 trillion in global institutional assets under management, so there is still room for growth," he adds.

Nonetheless, some institutional investors are yet to embrace digital assets. "Despite the sheer enormity of the assets held in FX reserves by sovereigns, crypto-assets are not represented at all. In addition, we do not really see sovereign wealth funds (SWFs) investing in crypto either, although I am confident this will change," notes Pirestani. Other speakers broadly echo this sentiment. "SWFs are not directly invested into digital assets, but they are indirectly invested into companies which are building up digital asset infrastructure, or who are themselves invested into digital assets. SWFs are just one step away from being directly invested in digital assets," says Alessio Quaglini, Founder and CEO, Hex Trust.

#### An evolving digital asset market landscape

There are a number of reasons as to why some investors are choosing to wait on the side-lines with digital assets. For instance, the Fidelity study found volatility and a lack of fundamentals to be among investors' biggest reservations about digital assets. However, Nordeste notes that investors are slowly becoming more

comfortable with these instruments. "While volatility and valuation issues continue to be challenges, it is interesting to note that investors previously cited things like market manipulation and hacking as being their biggest concerns about digital assets – but this is no longer the case. The market infrastructure supporting digital assets has evolved given that investors are thinking mostly about market risk – versus someone walking away with their bitcoin,' he adds.

So what exactly has changed in terms of the market infrastructure supporting digital assets? Whereas unregulated crypto-exchanges are notoriously vulnerable to cyber-attacks – with several providers suffering downtime and sharp losses following hacks – the calibre of service providers now operating in the digital asset ecosystem has become more institutional. In addition to a number of fintechs, several global custodians – for example – are currently developing digital asset custody solutions.

"With institutional money coming into digital assets, the infrastructure is improving. But what should investors be looking for at their crypto-custodians? Any quality crypto-custodian must have an unblemished track record and demonstrate that it has kept assets secure at scale

<sup>&</sup>lt;sup>3.</sup> Coin Telegraph (November 6, 2021) De-Fi can be 100x larger than today in five years

<sup>&</sup>lt;sup>4.</sup> Fidelity Digital Assets<sup>SM</sup> 2021 Institutional Investor Digital Asset Study (September 2021)



for a meaningful period without a loss of funds. The custodian must show they have the financial resources to make good on their obligations to safekeep assets," says Pirestani.

"Security is also vital. Investors must evaluate the physical and cyber defences of the crypto-custodian and assess whether the firm has a security first culture. Crypto-custodians must also have robust compliance and audit protocols in place with third party oversight, for example SOC audits performed by one of the big four accountancy firms," continues Pirestani.

Efforts to better regulate the digital asset market are also providing institutions with reassurance. Teychenne points out that a number of global regulators are looking to introduce supervisory regimes for digital assets which facilitate investor protection but also stimulate innovation – citing the recent Executive Order from President Joe Biden as an example. In addition to promoting research into the potential applications for a US Central Bank Digital Currency (CBDC), the Executive Order lays the framework down for future regulation of digital assets and the development of global standards around them.<sup>5</sup>

Nordeste highlights that regulators in Europe and Asia are also evolving their own digital asset rules. In the case of the EU, the Markets in Crypto-Assets Regulation will harmonise digital asset requirements across the 27

member states – including registration and licensing obligations for crypto-asset issuers and servicers. "Up until now, the regulatory focus on digital assets has been on combating money laundering and terrorist financing. Now, we are seeing more emphasis on creating frameworks that are suitable for this new asset class, focusing on the quality of the service provided and investor protection," according to Quaglini.

#### Digital Assets - the next frontier

While digital assets will most likely co-exist with traditional financial instruments for some time yet, experts are confident the next 12 months will be hugely transformative. "I anticipate 2022 will be a watershed moment for crypto-assets, as sovereigns begin entering the market. I believe that development will be the ultimate validation of crypto as an asset class. On Bitcoin, given that global markets are at a key inflection point, we might finally see whether Bitcoin is truly a safe haven asset," says Pirestani.

Others largely agree, with Nordeste echoing, "In the next two years, most incumbents will likely be active in the crypto-market rather than sitting on the side-lines.". This gradual leaning towards digital assets has ultimately been made possible by the institutionalisation of crypto-asset service providers and the emergence of sensible regulation at a time when conventional returns are difficult to come by.

Please note that some of the information and opinions expressed in this presentation are owned by a third party and a non-affiliate of Citi. It has not been verified by Citi and is not necessarily a reflection of Citi's views - the opinions may differ from the opinions expressed by Citigroup or any of the businesses of Citigroup .Inc.

In any instance where distribution of this communication is subject to the rules of the US Commodity Futures Trading Commission ("CFTC"), this communication constitutes an invitation to consider entering into a derivatives transaction under U.S. CFTC Regulations §§ 1.71 and 23.605, where applicable, but is not a binding offer to buy/sell any financial instrument.

This communication is prepared by a member of the Sales and Trading Department of Citi which distributes this communication by or through its locally authorised affiliates (collectively, "Citi"). Sales and Trading Department personnel are not research analysts, and the information in this communication ("Communication") is not intended to constitute "research" as that term is defined by applicable regulations. Unless otherwise indicated, any reference to a research report or research recommendation is not intended to represent the whole report and is not in itself considered a recommendation or research report. All views, opinions and estimates expressed in this Communication (i) may change without notice and (ii) may differ from those views, opinions and estimates held or expressed by Citi or other Citi personnel.

This Communication may contain Secured Overnight Financing Rate ("SOFR") data or related information posted to the New York Fed website. If this is the case, this Communication is subject to the Terms of Use posted at newyorkfed.org. The New York Fed is not responsible for publication of this Communication by Citi, does not sanction or endorse any particular republication, and has no liability for your use. This Communication may also describe products or services by reference to SOFR. Citi is not affiliated with the New York Fed. The New York Fed does not sanction, endorse, or recommend any products or services offered by Citi.

This Communication is provided for information and discussion purposes only. Unless otherwise indicated, (i) it does not constitute an offer or recommendation to purchase or sell any financial instruments or other products, (ii) it does not constitute a solicitation if it is not subject to the rules of the CFTC (but see discussion above regarding communication subject to CFTC rules) and (iii) it is not intended as an official confirmation of any transaction.

This Communication may include a description of a trade idea and/or trading strategy based on an assessment of current market conditions, which may change quickly. Derivative transactions, including swaps, give rise to substantial risk and are not suitable for all investors and/or market participants. In addition, any proposed transaction could have accounting, tax, legal or other implications. Prior to entering into any transaction, you should determine, without reliance on Citi, the economic risks or merits, as well as the legal, tax and accounting characteristics and consequences of the transaction and that you are able to assume these risks. There can be no assurance that any transaction or trading strategy discussed herein will not result in losses due to the unpredictability of markets, mistaken assumptions and/or other factors. Unless otherwise expressly indicated, this Communication does not take into account the investment objectives or financial situation of any particular person. Recipients of this Communication should obtain advice based on their own individual circumstances from their own tax, financial, legal and other advisors before making an investment decision, and only make such decisions on the basis of the investor's own objectives, experience and resources. The information contained in this Communication is based on generally available information and, although obtained from sources believed by Citi to be reliable, its accuracy and completeness cannot be assured, and such information may be incomplete or condensed.

Citi often acts as an issuer of financial instruments and other products, acts as a market maker and trades as principal in many different financial instruments and other products, and can be expected to perform or seek to perform investment banking and other services for the issuer of such financial instruments or other products.

The author of this Communication may have discussed the information contained therein with others within or outside Citi and the author and/or such other Citi personnel may have already acted on the basis of this information (including by trading for Citi's proprietary accounts or communicating the information contained herein to other customers of Citi). Citi, Citi's personnel (including those with whom the author may have consulted in the preparation of this communication), and other customers of Citi may be long or short the financial instruments or other products referred to in this Communication, may have acquired such positions at prices and market conditions that are no longer available, and may have interests different from or adverse to your interests. Investments in financial instruments or other products carry significant risk, including the possible loss of the principal amount invested. Financial instruments or other products denominated in a foreign currency are subject to exchange rate fluctuations, which may have an adverse effect on the price or value of an investment in such products. No liability is accepted by Citi for any loss (whether direct, indirect or consequential) that may arise from any use of the information contained in or derived from this Communication.

Certain products mentioned in this Communication may contain provisions that refer to a reference or benchmark rate which may change, cease to be published or be in customary market usage, become unavailable, have its use restricted and/or be calculated in a different way. As a result, those reference or benchmark rates that are the subject of such changes, may cease to be appropriate for the products mentioned in this Communication. Citi encourages you to keep up to date with the latest industry developments in relation to benchmark transitioning and to consider its impact on your business. You should consider, and continue to keep under review, the potential impact of benchmark transitioning on any existing product you have with Citi, or any new product you enter into with Citi. Citi does not provide advice, or recommendations on the suitability of your product choice including with respect to any benchmark transitioning on any existing product you have with Citi. You should obtain professional independent advice (legal, financial or otherwise) in respect of the suitability of your products in light of benchmark transitioning as you consider necessary.

This Communication is made available exclusively to market professionals, financial intermediaries and institutional investor customers and is not intended for distribution to retail customers. Any on-distribution has not been approved or authorized by Citi, who expressly disclaims liability for such on-distribution.

Past performance is not a guarantee or indication of future results. Any prices provided in this Communication (other than those that are identified as being historical) are indicative only and do not represent firm quotes as to either price or size. You should contact your local representative directly if you are interested in buying or selling any financial instrument or other product or pursuing any trading strategy that may be mentioned in this Communication.

Although Citibank, N.A.\* (together with its subsidiaries and branches worldwide, "Citibank") is an affiliate of Citi, you should be aware that none of the financial instruments or other products mentioned in this Communication (unless expressly stated otherwise) are (i) insured by the Federal Deposit Insurance Corporation or any other governmental authority, or (ii) deposits or other obligations of, or guaranteed by, Citibank or any other insured depository institutions.

IRS Circular 230 Disclosure: Citi and its employees are not in the business of providing, and do not provide, tax or legal advice to any taxpayer outside of Citi. Any statements in this Communication to tax matters were not intended or written to be used, and cannot be used or relied upon, by any taxpayer for the purpose of avoiding tax penalties. Any such taxpayer should seek advice based on the taxpayer's particular circumstances from an independent tax advisor.

Citi specifically prohibits the redistribution of this Communication in whole or in part without the written permission of Citi and Citi accepts no liability whatsoever for the actions of third parties in this respect.

\*Citibank N.A., organized under the laws of the U.S.A. with limited liability.

Copyright ©2022 Citigroup Inc. and/or its affiliates. All rights reserved. CITI, CITI and Arc Design, CITIBANK and CITIGROUP are trademarks and service marks of Citigroup Inc. and/or its affiliates and are used and registered throughout the world.

