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CBDC: Derivatives Markets Considerations

What is CBDC?

- Central bank digital currency: Notably, not yet a standardized term, and one where even international authorities (BIS) have noted that there will be no rulemaking.
- Yet there are number of widely recognized characteristics:
 - Central bank-issued digital money and a liability of the central bank
 - Backed by the government in the same way that current forms of fiat currency are backed
 - But distinct from existing master accounts at Federal Reserve Banks

See Fintech Beat [podcast conversation](#) with Benoît Cœuré, noting likely standard-making, as opposed to rulemaking, at international level.



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Key Design Considerations

- Account based or token based
- Retail or wholesale
- Privacy, anonymity
- Degree of centralization, involvement of commercial banks or other intermediaries
- Interest bearing
- Programmability

Each design choice has significant implications for use cases, adoption, and impacts on existing banking and financial services business models



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Stablecoins: A primer

- Stablecoins are privately issued instruments, typically used as a store of value or medium of exchange
- Designed to have a market value that tracks or is pegged to a set amount of fiat currency—or a fixed amount of a particular asset (e.g. an ounce of gold)
- Generally token based, arose from blockchain-based cryptocurrencies
- Not backed by a central bank, but may be supported by commercial bank deposits, securities, or other assets, including virtual currencies (see MakerDAO). Could also be algorithmically supported.
- Generally not treated as money or currency (but see Wyoming UCC)



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CBDC vs. Stablecoins?

- What problems are CBDCs trying to solve?
 - 24x7 movement of fiat
 - Contactless payments
 - “Riskless” settlement (although the risk on USDC, PAX, GUSD is very low)
 - Extending fiat into the programmable money era (see features offered by USDC, for example)
- What is the proper government response?
 - Should government compete with stable coins?
 - Or should government offer something simpler, underlying, that stablecoin providers can layer valued added services on top of?



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Regulatory Treatment of CBDC

- CBDC would be a digital fiat currency
- Therefore it should be treated the same as other fiat currencies (special policies for US dollar issuances?)
- Currencies are commodities under the Commodity Exchange Act
- However, US dollars are typically not themselves the subject of derivatives contracts



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Derivatives Market Considerations

- CBDC could potentially facilitate the faster exchange of payments and collateral for cleared and uncleared contracts
 - Through use of smart contracts, CBDC could be utilized to effectuate real-time or closer to real-time settlement of margin or collateral obligations associated with cleared and uncleared derivatives.
 - Clearinghouses, FCMs, swap dealers would need to build messaging and settlement systems for the secure transfer of CBDC
 - The existing role of commercial banks may change
- Programmable CBDC could also facilitate further automation of these functions
- A retail, programmable CBDC could be useful in retail FX markets



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The Importance of CBDC Design

- Not all CBDCs are the same. A Central Bank could issue, or sanction the issuance of, some currency instrument that might include elements of a swap or secured product.
- Let's say the Central Bank decides against issuing a CBDC directly, but instead goes to all the commercial banks, or just to the primary dealers, and say "you create a digital dollar in whatever form you want. We will guarantee those digital dollars." Or "We will secure those digital dollars with the mortgage backed securities or corporate bonds that we've bought over the years."
- Is this a swap? Is this a security or security-based swap? In addition to other structures, these products may very well be CFTC (or SEC) regulated products.



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The Importance of CBDC Design (cont'd)

- If it is a swap or forward not traded on a CFTC or SEC regulated exchange, as appropriate, you will need to be an Eligible Contract Participant (ECP), as defined by CEA section 1a(18), to engage in the swap or forward.
- These alternative currency structures will not be available to retail persons. This may limit the usability of the CBDC in smart contracts, depending on the structure.



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What if any new
custodial
challenges would
CBDC pose for
clearinghouses?

- Legacy clearinghouses are largely built for real time processing on a limited basis for part of the day;
 - They rely on partial real time for other functions during the day (e.g. margin), and then go full on batch mode after a market closes
- Crypto trading takes place 24 x 7
- Market pressures could induce dramatic changes in operations to a 24x7 model to prevent competitors from listing same products and taking market share.

Would a CBDC
introduce new
cybersecurity
risks for
derivatives
infrastructures?

- Would CBDC-related services and infrastructures create larger “honey pot” risks?
- Would responses and backstops be sufficient given likely higher volume of CBDC-related transactions?
- What interest would other regulators (e.g. Fed) take in steps taken by hereto largely CFTC-regulated entities?
- How?

Would a rapid
shift to CBDC
impact the
financial health
of FCMs?

- Movement of accounts to the central bank could, in theory, impact the liquidity of FCMs
- FCM customers will keep their USD/CBDC wherever they are safest and most accessible.
- Float typically present in the balance sheet of FCMs could be reduced, introducing new or unexpected forms sources of fragility.

Would a platform-based CBDC require new forms of intermediaries for derivatives infrastructure?

- Some countries, including China, are toying with the idea of a platform based model whereby an ecosystem of financial services providers could be built on top of the payment rails for money.
- Such an ecosystem could involve in principle financial services providers that operate in the derivatives sector.
- Additionally, derivatives services could in theory be provided on top of such a platform

Would the introduction of a CBDC provide a means of easing the costs of regulatory compliance?

- Compliance costs may remain largely stable
- However, firms may have greater opportunities to distinguish themselves, particularly those that run on modern, highly efficient platforms.
 - For example, some firms may keep segregated accounts in real time--event by event, in real processing time--not pulse based batch a few times a day.