

Central Bank Digital Currencies: Challenges & Opportunities

(RESTRICTED)

13-15 May 2018 | Bodrum

Evolution of Money





RESTRICTED

Cryptocurrencies / Crypto-assets / Private Digital Tokens

MERKEZ BANKAS



Central Bank Digital Currency (CBDC)



Source: Bjerg, O (2017): "Designing new money – the policy trilemma of central bank digital currency", Copenhagen Business School (CBS) Working Paper.



Source: Berentsen A (2017): The Case for Central Bank Electronic Money and the Non-case for Central Bank Cryptocurrencies, Fed St Lois



Taxonomy of Money: Money Flower



Source: Bech, M (2017): "Central bank cryptocurrencies", BIS Quarterly Review.



Central Bank Studies

Interest

Published research

PoCs (wholesale CBCC)

The People's Bank of China Actively exploring and experimenting with CBDC systems.



Bank of Estonia

Announced its plans to launch a CBDC as part of its e-Residency program.



Central Bank of Russia

Sees many benefits of a national cryptocurrency (crypto-Rubble)



TÜRKİYE CUMHURİYET MERKEZ BANKASI

The Central Bank of Malaysia Says CBDC has potential for

non-banks access



Bank of England Analysis of the potential macro-economic impact of CBDCs.

The Central Bank of Canada

Reports on Motivations and Implications of CBDC; Assessment Framework

Central Bank of Sweden SVERIGES RIKSBAN Research on requirements for and benefits of e-Krona

RESTRICTED

The Monetary Authority of Singapore (MAS)

Developed and published a set of PoCs (Project UBIN)

The Central Bank of Canada Developed a DLT-based

▲ ▲ ▲ wholesale CBDC solution, CAD-coin (Project JASPER)

Bank of Japan & **European Central Bank**

PoC for a cross-border DvP system (Project STELLA)

MAS

The Hong Kong Monetary Authority (HKMA)

PoC for a DLT-based supplychain finance system

Implementations (backed by governments)

The Central Bank of Ecuador Banco Central del Ecuador Centralized payment system backed by digital currency (2015). Faced with challenges gaining public trust (deactivated in April 2018).

not by central bank The Tunisian Post

Virtual e-dinar accounts and e-dinar cards. Superseded by blockchain platform .

not by central bank The Government of Venezuela Backed by the country's oil and mineral reserves (2018)

Main Features for Cash like CBCC – CBRT's Perspective

RESTRICTED

(1117

Ecosystem & Potential Use Cases – CBRT's Perspective

RESTRICTED

TÜRKİYE CUMHURİYET MERKEZ BANKASI

Some Potential Benefits – CBRT's perspective

Efficiencies by reducing cash usage

Extending financial inclusion

Efficient and immediate cross border payments to enhance inter-regional cooperation and trade

Increasing resilience of market infrastructure via distributed technology

Facilitating access to central bank money for innovative new entrants

Reducing friction in payments

Reducing illicit use via increased transaction traceability ability for authorities

Challenges & Considerations

Studies Conducted & Planned by the CBRT

Thank you