

# BLOCKCHAIN *WORX*

## CBDC Studio

An integrated platform for private sector and Central Bank Digital Currencies (CBDC)



Smart, Robust, Scalable, and Interoperable system



Programmable money for the 'Digital' era



Innovation via futuristic monetary policies and tools

## Central banks from across the world are actively exploring the use of Digital currencies to help solve long-standing challenges plaguing the financial systems



Over 90% of the central banks surveyed said they are actively researching Digital Currencies



50% of the active banks are at a conceptual research stage, 40% have conducted experiments, and 10% are at the pilot stage



A Deutsche Bank research has separately tracked almost 20 digital currency projects led by central banks across all regions globally



71% of central banks surveyed said they preferring DLT-based CBDCs

Central bank digital currencies (CBDCs) offer, in digital form, the unique advantages of central bank money - settlement finality, liquidity, and integrity – while strategically representing money for the new digital economy

As a practically costless medium of exchange, CBDC's could enhance the efficiency of payments, provide for monetary policy innovation and driver greater financial inclusion

*The benefits include:*



### Efficiency

Potential for much faster and cost efficient domestic and cross-border payments



### Automation

Smart contracts to apply rules and allow for automation and streamlining of processes



### Transparency

Improved transparency & real time visibility for stakeholders including regulators



### Security

Replicated and synchronised full data set for a secure, robust and resilient system



### Inclusion

Opportunity to enhance financial inclusion by eliminating the need for a bank account

CBDC will give central banks effective, future-oriented tools, allowing for the implementation of monetary policy in smarter and innovative ways in today's modern, connected 'Digital' era

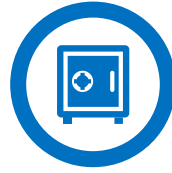
Blockchain Worx, has designed an **integrated CBDC platform** that simplifies the issuance, distribution and management of interoperable digital currencies

*The platform performs three critical functions*



### Design & Monitor

Empower Central Banks to design pioneering CBDCs, set futuristic monetary policies, and monitor the ecosystem



### Issue & Manage

Enable financial institutions to holistically issue, distribute, and manage CBDCs on one integrated platform



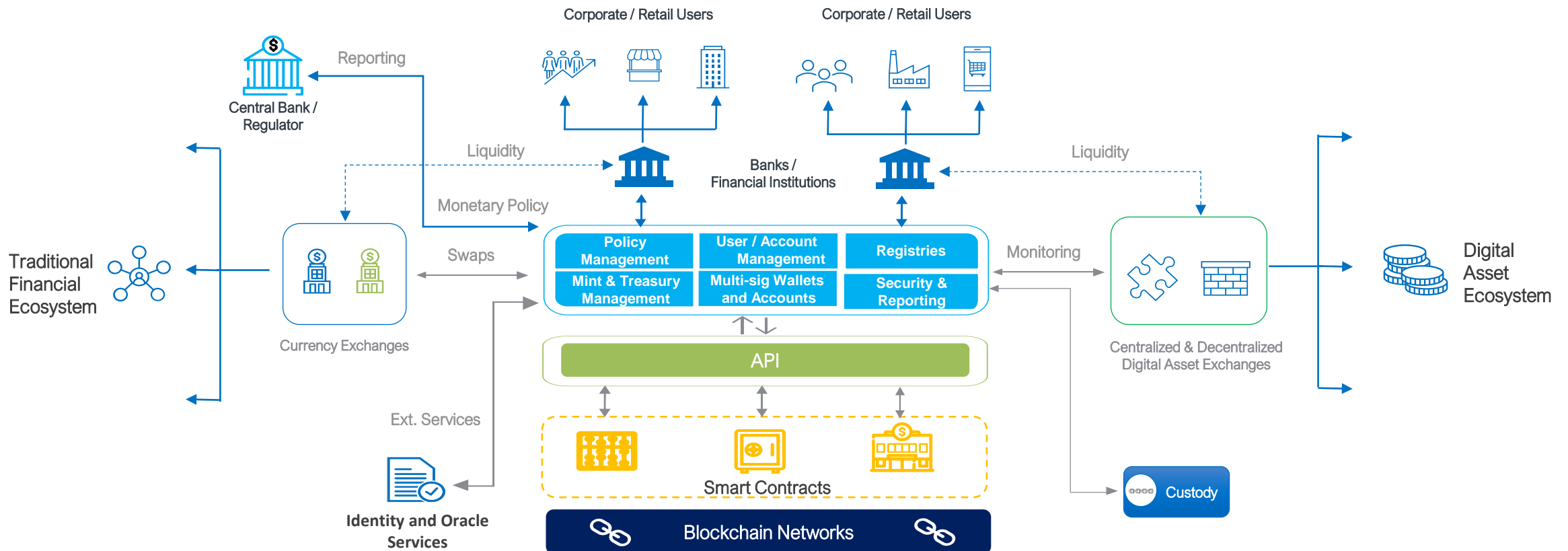
### Utilize & Innovate

Allow organizations to effectively craft the next-generation of innovative structured financial products

The CBDC Studio simplifies the complex process of issuing and managing digital currencies and supports central banks and financial institutions in seamlessly transitioning from traditional financial models to a digital-first approach

# Our Two-Tier CBDC Framework empowers public-private partnerships and enables digital cash to be designed by central banks but issued and distributed by financial institutions

## The Framework



Digital currencies, denominated in the domestic unit of account, would be privately issued and managed, although fully backed with central bank reserves, and monitored centrally

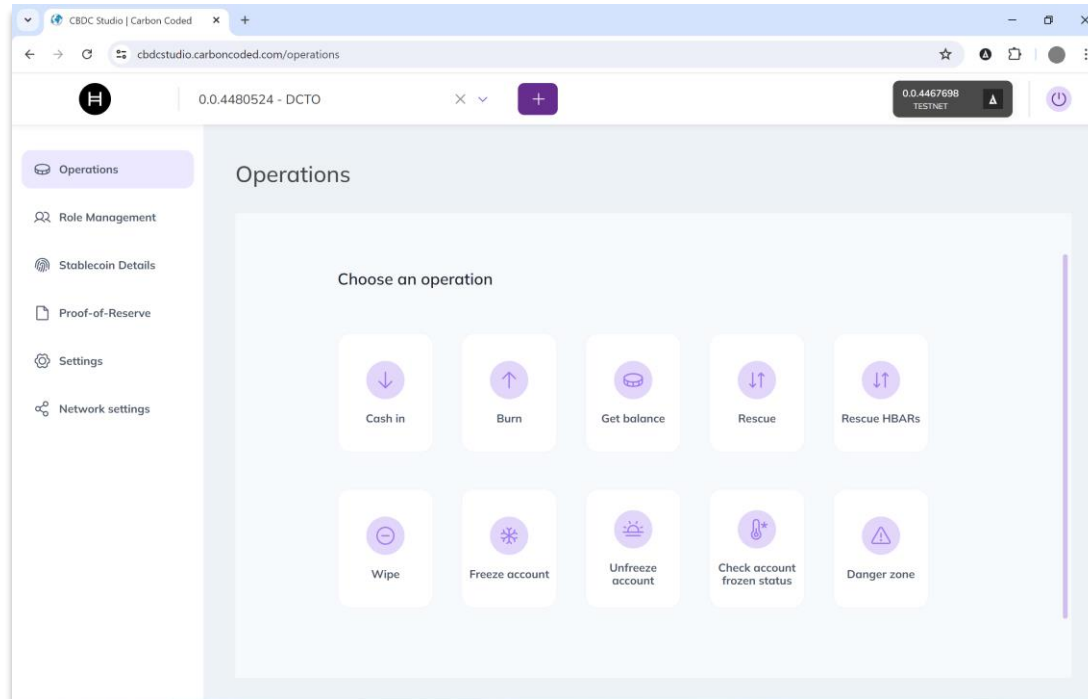
The platform enables financial institutions to issue, distribute, & manage digital currencies while allowing the central bank to define Monetary policies and have supervisory oversight

### Key Functions



The system innately supports Proof of Reserve oracles, integration with custody services, the implementation of KYC/AML, and account flagging, while providing for administrative control, policy management, and transaction monitoring by the regulator and relevant authorities

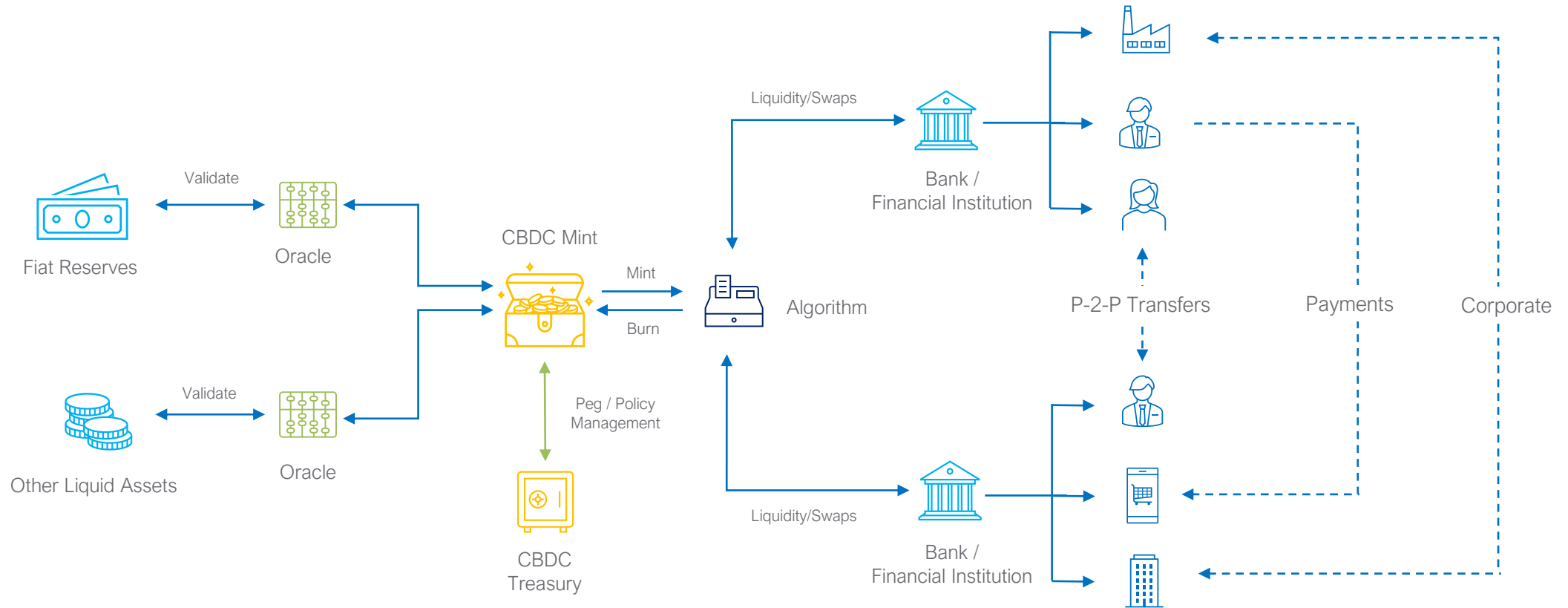
The technology stack includes a private instance of the Hedera Stablecoin Studio and mirror nodes with Zero Trust security and use MPC/Ledger wallets for enhanced protection



Programmable smart contracts seamlessly enable automation and facilitate settlements while a well-orchestrated set of distributed nodes provide a robust, scalable and highly available network for all users. Chainlink/Supra oracles validate and deliver the Proof-of-Reserve

# From P-2-P transfers and payments to corporate transactions the platform empowers a cohesive CBDC-based financial ecosystem that's smart, secure and inclusive

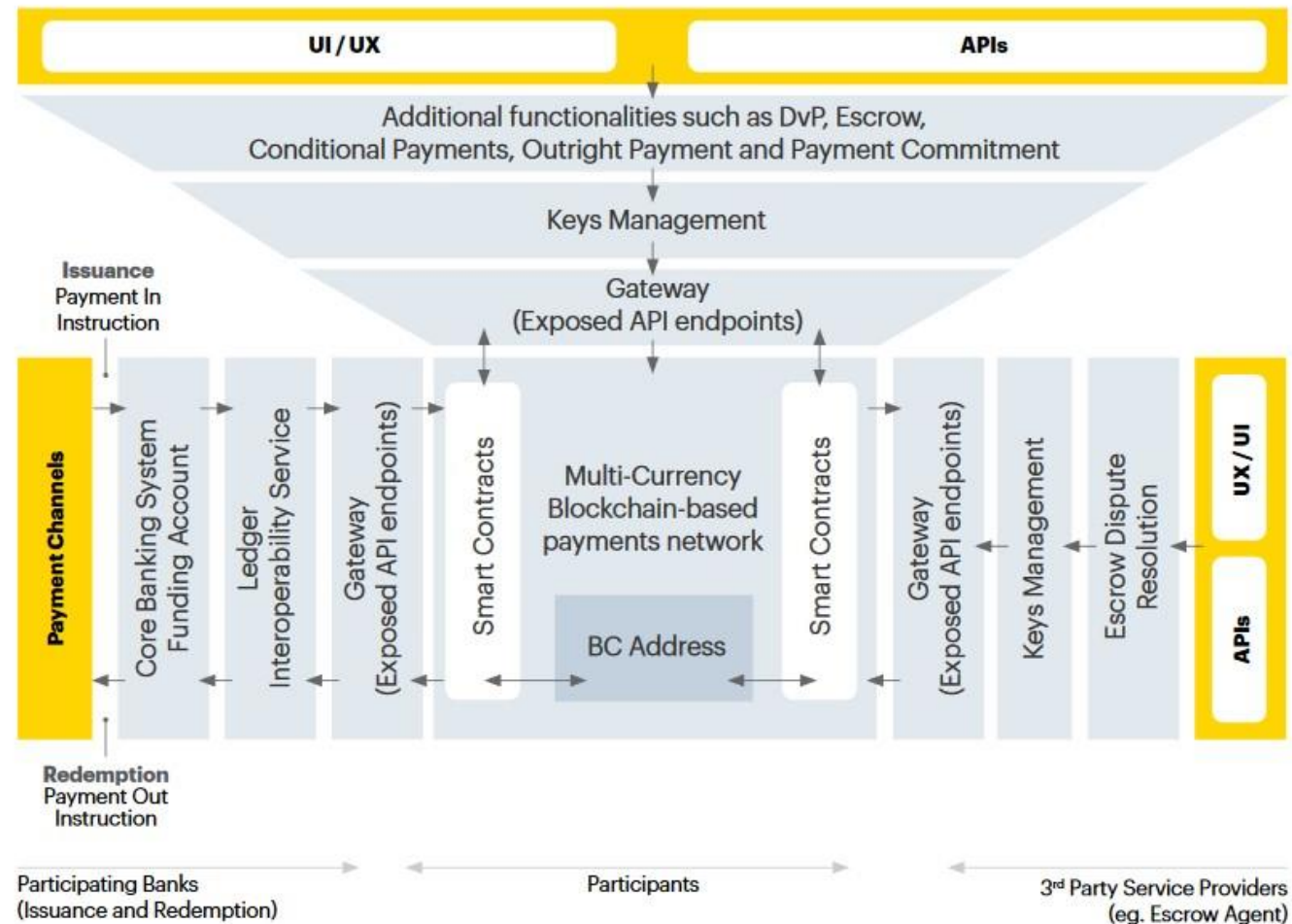
*How it all comes together*





We largely follow the Monetary Authority of Singapore's Project Ubin framework, building upon and extending the work done across five inter-related components

... *ledger interoperability service, gateway communication service, blockchain ledger, user connectivity interfaces, & digital currency*



Source: Monetary Authority of Singapore

Join us on this journey as we enable a new digital currency paradigm and pave the future of financial markets

*Drop us a line or reach us via any of the channels below:*

# Get in Touch



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