

# BLOCKCHAIN *WORX*

## CBDC Studio

Harnessing Distributed Ledger Technology to power private sector and central bank Digital Currencies



Integrated platform for CBDCs



Multi-tier model and frameworks



Blockchain networks for multiple use cases



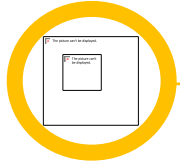
## Institutions across the world are actively exploring the use of **Digital Currencies** to help solve long-standing challenges plaguing the financial systems



70% of the central banks recently 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 (not necessarily Blockchain technology)

Private sector digital currencies, after meeting with a great deal of scepticism from the official sector, are also starting to find traction

As a practically costless medium of exchange, **CBDCs** 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



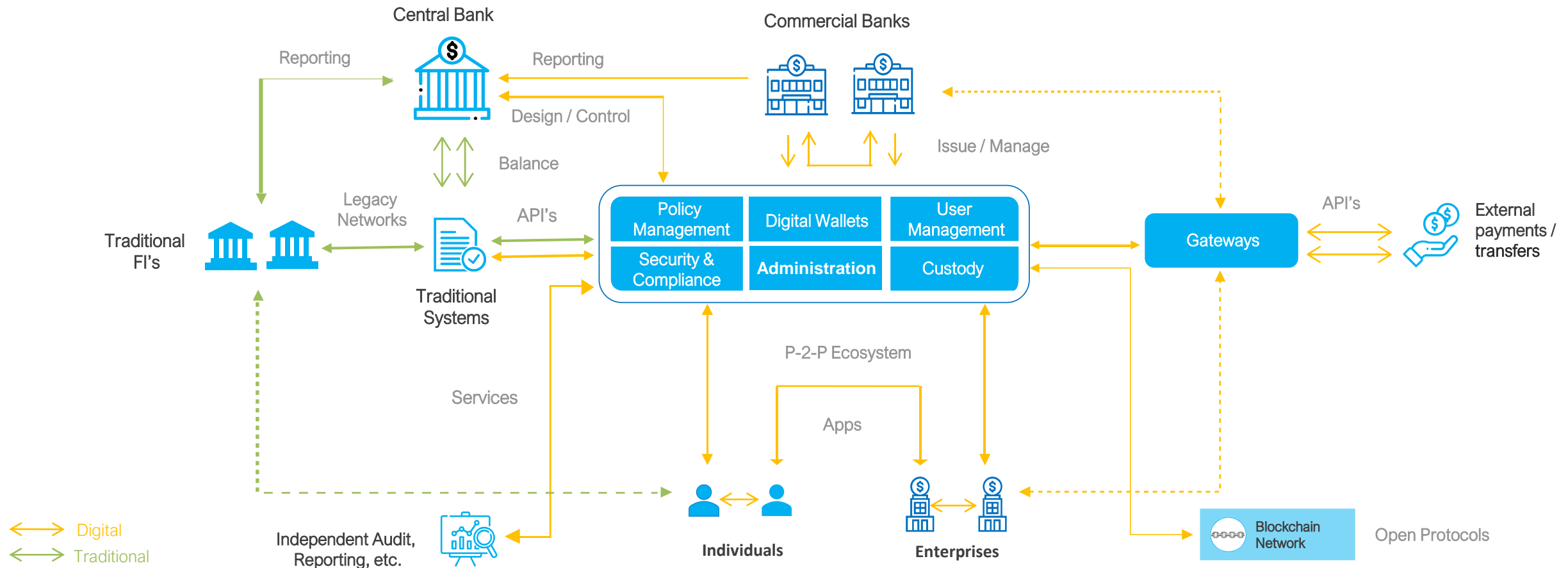
### Inclusion

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

However, challenges also exist – from the disintermediation of commercial banks to technological glitches – a new digital monetary system still has a long way to go

# A two-tier model for CBDC would empower public-private partnerships and enable Digital Cash to be designed by central banks but distributed by commercial FI's

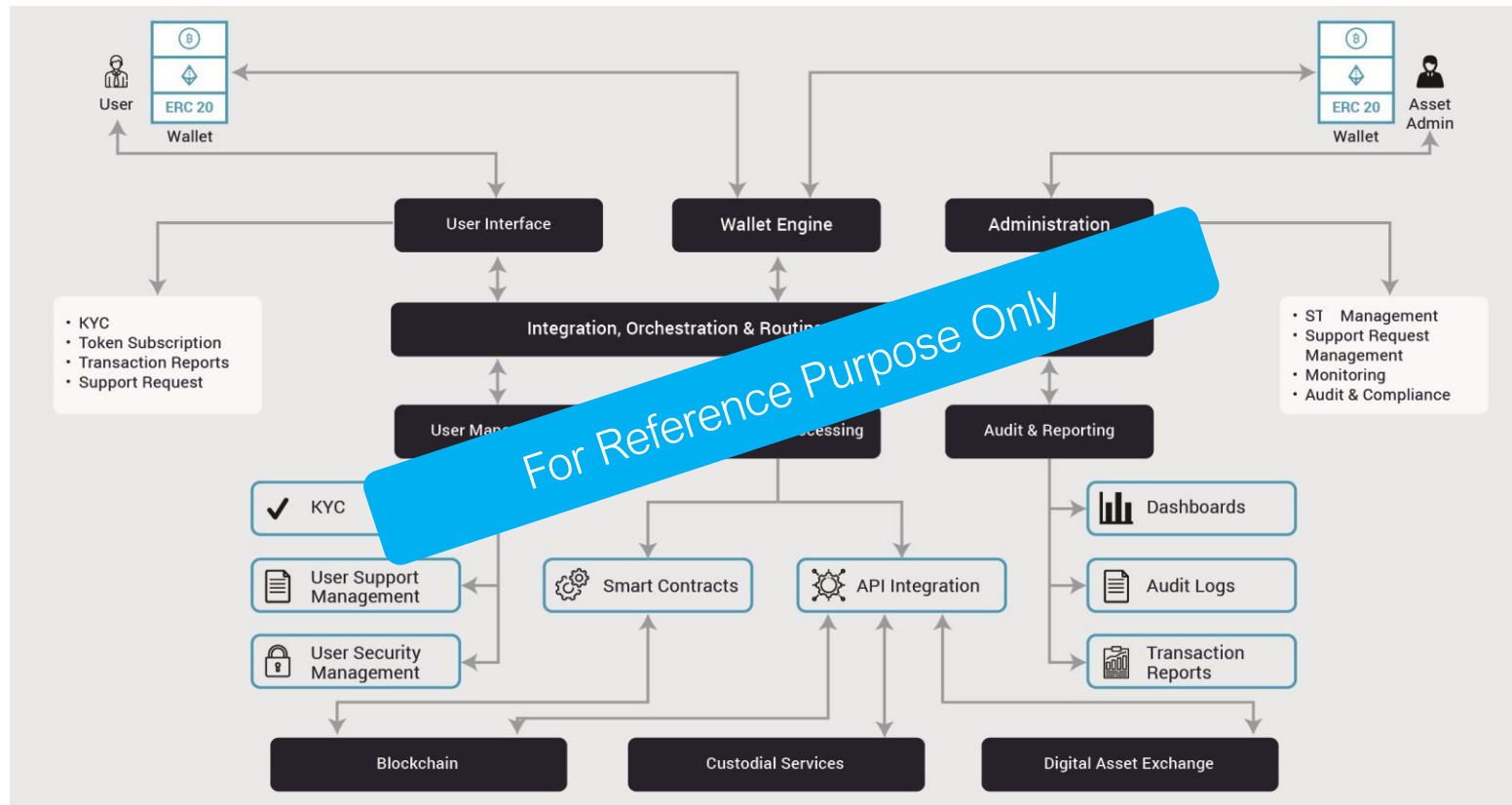
*How it all comes together*



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

# Blockchain Worx is working with partners and institutions on an integrated CBDC platform that simplifies the issuance, distribution and management of digital currencies

*The technical architecture (using JP Morgan's Quorum Blockchain network)*



Deploying the technology in a sandbox environment allows us to effectively adapt the systems to local regulations and enable institutions to experiment with CBDC's

# The CBDC Studio provides an end-to-end system to experiment with and explore Distributed Ledger Technology for digital currencies across a variety of use cases

*A non-exhaustive list of DLT applications or use cases which at least one central bank is actively researching*



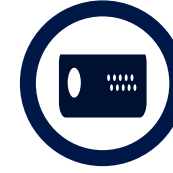
**Retail central bank digital currency** Serves as a complement or substitute for physical cash and alternative to bank deposits



**Wholesale central bank digital currency** available only for commercial banks and clearing houses for use in the wholesale interbank market



**Interbank securities settlement** enabling the rapid interbank clearing and settlement of securities for cash



**Payment system resiliency and contingency** - a back-up domestic interbank payment and settlement system to provide safety and continuity from threats



**Bond issuance and lifecycle management** May be applied to bonds issued and managed by sovereign states or government agencies.



**KYC and AML leverage DLT** to track and share relevant customer payment and identity information to streamline processes and interact w CBDC's

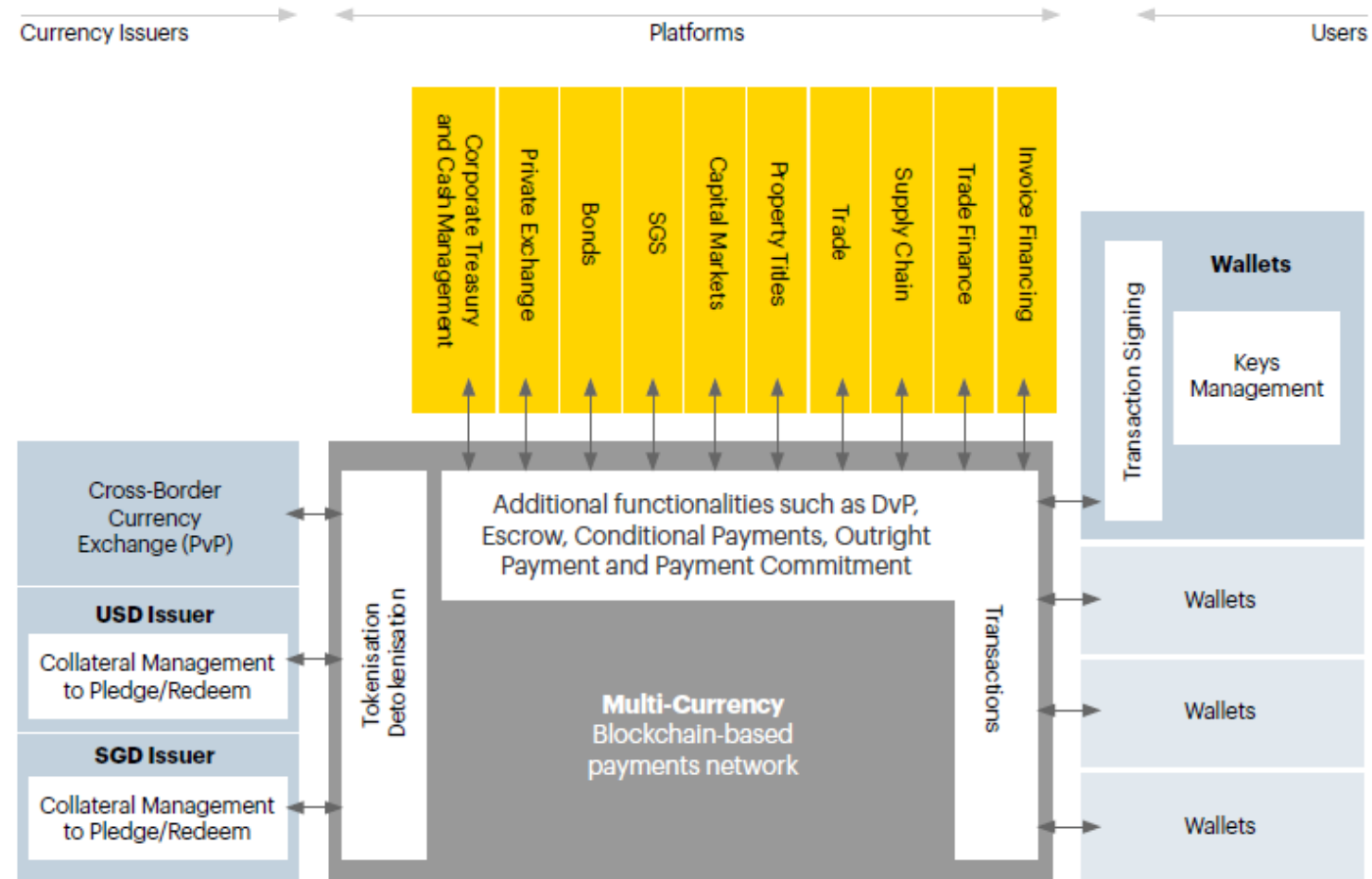


**Trade finance** to enable faster, more efficient and more inclusive trade financing



**Monitor the Cash money supply chain** tracking the movement of cash from production facilities to the central bank and commercial bank branches

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



Source: Monetary Authority of Singapore

We have formed strong **relationships** with a select set of organizations who are aligned with our vision of a digital future

Folks we work closely with:



We work closely with reputed financial institutions, consultancies and technology providers worldwide to ensure that we deliver a comprehensive set of digital solutions and help transform financial services



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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