Overview of CBDC initiatives Insights on leading projects & progress status*

Geoffrey Maene

Nov 2020



MAS – Project Ubin

2020-11-18

Strategy

Multi-currency Blockchain-based RTGS payment system to simplify fund transfers

Scope

Full digitization of SGD & Cross-Border transfers

Stakeholders

Monetary Authority of Singapore & Temasek [Lead] JPMorgan then Consensys from Aug. 2020 [Quorum Platform & technical developments] Accenture [Use Cases]

Technical specificities

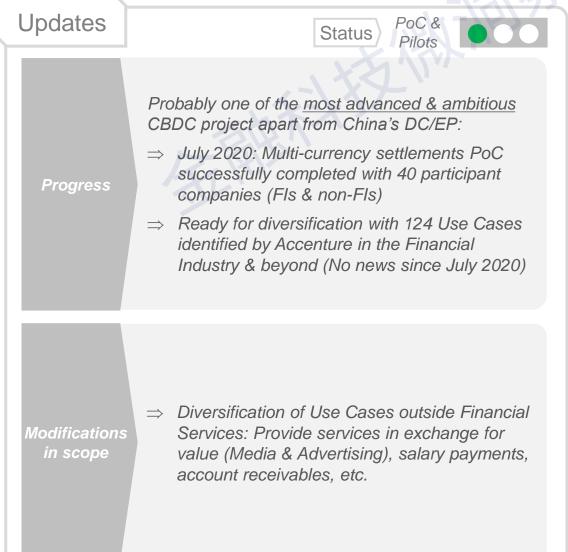
Leverage on Quorum Tech capacities:

- Use of Quorum Open-Source Platform based on Ethereum Protocol – to develop the Interbank Network
- Use of JPM Coin for payment technology (JP Morgan)

Planning

Started in November 2016:

- Phases 1-2: Build technical capabilities for Domestic Payment Network
- Phases 3-4: Build interoperability to enable DvP & PvP
- Phase 5: Multi-currency settlements



Bank of Thailand (BoT) – Inthanon Project – Wholesale CBDC (1/2)

2020-11-18

Strategy

Thailand's **Wholesale CBDC project** to set a decentralized RTGS for Thailand's interbank payments based on DLT Technology

Scope

Build a DLT-based Real-Time Gross Settlement [RTGS] system for cash, bond, liquidity Management

Stakeholders

9 participating Banks: Bangkok Bank / Krungthai / Krungsri / Siam Commercial Bank / HSBC / Standard Chartered / Bank of Ayudhya / Kasikorn bank / Thanachart Bank Partnership: R3

Technical specificities

Use of Corda DLT Platform

Planning

Launched in August 2018:

- Phase 1: Build a PoC concept around Tokenisation of cash, bonds & automated liquidity provisioning
- Phase 2: Bond Life Cycle Management, Interbank Repo
 & Trading, Data Reconciliation & Compliance / Privacy definition

Updates

Status

PoC &



Completed:

- ⇒ Phases 1 & 2 PoC successfully completed on time with convincing results
- ⇒ Sept. 10th 2020: Go-Live of Government Savings Bond Platform ["DLT Scripless Bond Project"]: No feedback yet

Progress

- **Next Steps:**
- ⇒ July 2020: Start of PoC for Fund Transfers between large corporates (Until end of year) with fast implementation expected if good results
- ⇒ Broaden the scope of Government Bonds (Retail & Wholesale): Dependent on recent Go-Live results

Modifications in scope

- => Inthanon-LionRock Project [Wholesale]*:
- Cooperation project with HKMA leveraging on Inthanon's key milestones
- Objective: Improve Cross-border settlement efficiency between HKG & Thailand: Fund Transfer, Liquidity Management, Compliance, Privacy, etc.

=> It is not clear yet how the Inthanon project
Wholesale CBDC will evolve regarding what is already
Live Vs the recent partnership between BoT &
ConsenSys in Sept. 2020 (See hereafter)

2020-11-18

Bank of Thailand (BoT) – Digital Baht (2/2)

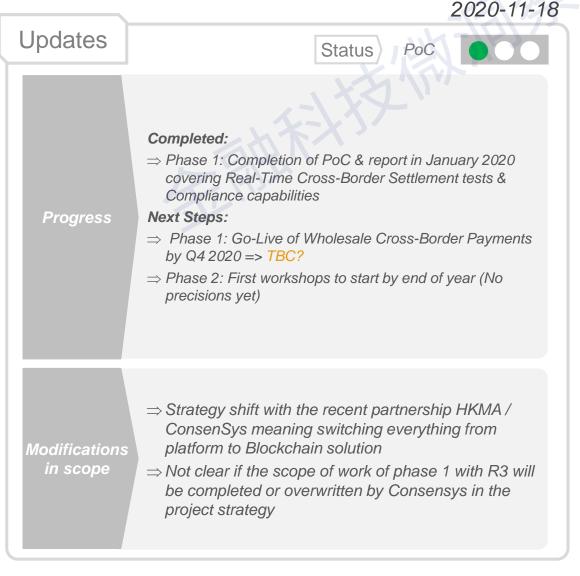
Thailand's newly announced Retail CBDC project to Strategy complement the Inthanon Project (Wholesale CBDC) Scope Retail CBDC for Individuals & SMEs [Digital Baht] Leader: Bank of Thailand (BoT) Participating Banks: Not yet disclosed Stakeholders Partnership: Consensys, Siam Cement Group/Digital Ventures (DV), Atato (Thai Blockchain Fintech) Technology (ConsenSys): Quorum (ETH-based permissioned Blockchain), ERC-20 Smart Contracts, HyperLedger Besu (Software). Implementation with Atato Technical specificities Platform (DV): Tests to be performed on B2P platform initially developed by DV/Accenture (Procurement solution) Wallet (ConsenSys): MetaMask Crypto Wallet **Planning** No planning disclosed yet





Inthanon-LionRock* Project

DLT-based corridor for cross-border payments between Strategy two Hong Kong & Thailand Phase 1 Phase 2 Phase 1 (Original scope): Phase 2 (From Sept. 2020): Wholesale CBDC for Work on a PoC for Cross-Scope Corporates Cross-border Border payments using CBDC between HK & settlements between HK & Thailand ** Thailand (No details yet) Leaders: HKMA & BoT Leaders: HKMA & BoT Participating banks not 2 HK Banks (HSBC / ZA) Stakeholders disclosed yet + 8 Thai Banks Partnership: ConsenSys / Partners: R3 / CryptoBLK PwC / Forms HK ConsenSys's Quorum - Corda platform (R3) Technical implemented with Forms HK to support specificities **CryptoBLK** *Implementation* - Report (CH&Co) PwC to probably write report Complete PoC by end of 2019 (Report in January TBD **Planning** 2020)



^{*} LionRock Project: Not detailed here as it was limited to a study on Wholesale CBDC issuance. The initiative took off only when HKMA joined the BoT initiative

^{**} **Phase 1 Report** main takeaways available in Appendix 2)

Sveriges Riksbank Sweden – e-Krona



- Implement a User-friendly & "inclusive" CBDC, that must serve everyone including elderly, disabled
- DLT-based RTGS system with a clear preference for a centralized model with private sector intermediaries:
 - Central Bank solely authorized to issue/redeem e-Kronor token or add new participants to the Chain
 - Private Payment/Service Providers authorized to handle operations (Transactions, platform, etc.) with the above limitations (Still not fully defined – dependent on Pilot)

Scope

- Must cover most of financial needs (Deposit, transfers, withdrawals, cross-border remittances, loans)
- Access (Mobile App, Smart Watch, Cards & offline solutions to ensure inclusive model)

Stakeholders

- Accenture: Multi-access Digital Wallet, API & Tech architecture with Central Bank systems
- R3: Corda private-DLT
- Commercial Banks to be involved during the PoC

Technical specificities

Use of Corda DLT Platform incl. the notary node system to avoid duplications of tokens

Planning

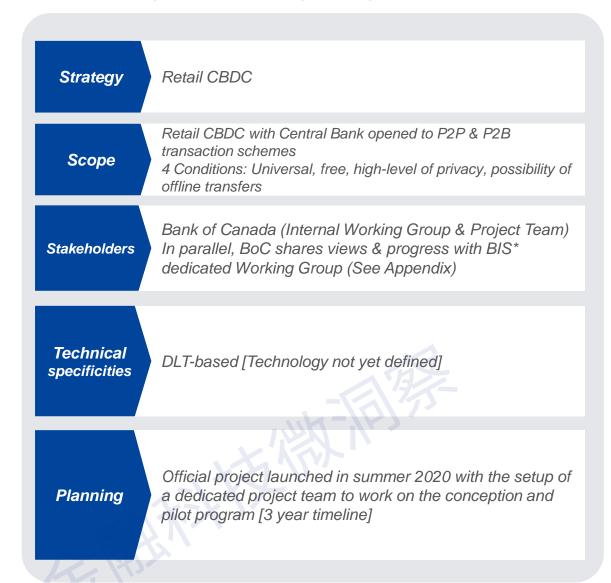
- 1 year-Pilot launched in February 2020 with Accenture:
- Technology: Build e-Krona architecture (R3) & multiaccess user interface (Accenture)
- Scope: 1st phase focused on Deposits & transfers

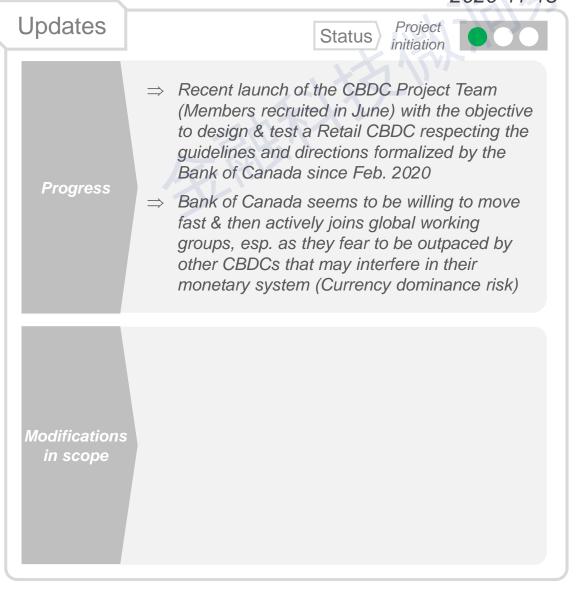
Updates Status ⇒ Pilot launched in February 2020 to be completed in Feb. 2021 with main objectives: To validate main functionalities & UX Ensure security (AML/KYC, security of process) Validate Performance ⇒ Mature approach with the release of a dense Progress report in June 2020 that analyses the needs, challenges & risks associated with CBDC projects incl. experts' detailed views ⇒ Cross-Border remittances do not seem to be the core topic for the first phase of the PoC but interoperability is a main concern for Sweden Initial scope quite broad including analysis of future deposit & loan systems with the full adoption of CBDC Modifications ⇒ Central Bank opened to analyse other in scope innovations such as auto-deposits & transfers and other non-financial services depending on the results of the current PoC



Bank of Canada – CBDC Initiative

2020-11-18



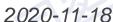


2020-11-18

Bank of Japan [BoJ] - Digital Yen

Improve efficiency of transactions & competitiveness of Strategy the Japanese Yen Fund transfers, P2P payments, Interoperability with Scope Private Digital Currencies & other nations' CBDCs Bank of Japan [Working Group Participants not disclosed, but probably Stakeholders major FIs of the country] Technical Early stage Working Groups specificities **Planning** No planning to launch a CBDC

Updates Working Status ⇒ July 2020: Announcement that the BoJ is boosting its CBDC Working Group efforts and wishes to perform tests, without giving further details on implementation timeline ⇒ January 2020: BoJ joined Working Group with the EU, Canada, UK, Sweden, Switzerland to cooperate on interoperability of CBDCs & Progress Privacy/Compliance issues* ⇒ Oct. 2020: Announcements on next steps: - Basic tests (Issuance / Distribution) will be performed from April 2021 - Preference for an indirect distribution model via commercial banks instead of direct BoJ distribution of Digital Yen ⇒ Contradictory messages from the BoJ that showed little interest for CBDC re. Japanese economy in Dec. 2019, then now rushes in scope efforts probably due to the fast progress of other nations, esp. China's Digital Yuan



Fed USA - Digital Dollar





Establish a Retail CBDC strategy to protect the position of the US Dollar regarding International competition from other Central Banks, Financial Institutions & Tech actors

Scope

- Domestic, cross-border & Government benefits payments
- P2P payments

Stakeholders

- Fed: Different branches of the Fed have organized working groups to analyse Use cases to push
 Accenture/Digital Dollar foundation (DDF): Whitepage
- Accenture/Digital Dollar foundation (DDF): Whitepaper of guidelines for the Digital USD

Technical specificities

Probably Token-based* Private DLT handled by Fed [Nothing defined yet: Propositions will have to be validated by the Congress]

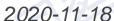
Planning

- No clear timeline defined: Congress approval of Whitepaper necessary before starting operational implementation (Painful process)
- Stakeholders of Working Groups suggest 5-10 year timeline for implementation regarding the sensitive role of the USD in international trade & financial system

Updates Status ⇒ Slow process with Congress representatives quite skeptical about the necessity to issue CBDC ...But ongoing local working groups in parallel: June 2020: Publication of Whitepaper urging for a move on CBDC implementation (DDF) August 2020: Announcement of cooperation program between the Fed NY & the Bank of **Progress** International Settlements (BIS) "Innovation Center Lab" to accelerate the launch of a pilot August 2020: Cooperation between Fed Boston & the MIT to assess the best technical solutions for a CBDC (Most advanced research work) Oct. 2020: J. Powell clarified the FED view: "Issue a CBDC but not hurry the process" Modifications

Modifications in scope

⇒ Sept. 2020: Currently actively analyzing the possibility of direct distribution of Digital \$ to US citizens w/o commercial banks intermediation (Not defined though)



European Central Bank [ECB] - Digital EUR

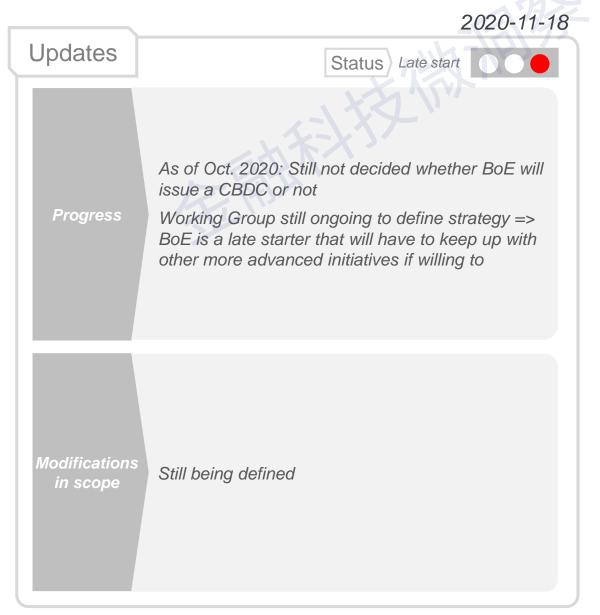


Updates Status ⇒ May 2020: Launch of working Groups between ECB & EU members' Central Banks to analyse Retail CBDC's concerns (Risks/Compliance/Legal) ⇒ In parallel, Working Group Program by French Central Bank [April 2020] to brainstorm on CBDC **Progress** applications with a focus on 3 areas: 1. Payments against other CBDCs 2. Payments against Digital Assets 3. Payments against Financial Instruments Oct. 2020: ConsenSys joins Working Group with SG Forge among others Sept. 2020: ECB Seems to confirm the focus on a Wholesale CBDC arguing that Blockchain technology may not be necessary for retail exchanges as the Euro Zone already has a Modifications mature, efficient & secured system in scope Nov. 2020: ECB announces the publication of report in January 2021 with potential shift to a Retail Digital EUR (2-4 years implementation timeline) - TBC



Bank of England [BoE] – CBDC project

Offer new payment facilities along with exiting ones (Cash, Strategy etc.) Work in progress (Use of DLT, Retail or Wholesale CBDC: Scope Still unclear at this stage) Bank of England Stakeholders Private sector solicited along with other Central Banks (BoJ, BoC, etc.) for joint Working Groups Technical Not yet defined specificities **Planning** Not yet defined



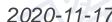
2- Other CBDC initiatives & StableCoins

"Sand Dollar" retail CBDC to allow universal access to payments with below main features: Central - 1:1 with BSD which is pegged to the USD Bank of the - Offline Capabilities (allow users to make a pre-set dollar Bahamas value of payments when communications access to the Sand Dollar Network are disrupted) - Does not pay interest & domestic-only use Bank of Cambodia CBDC project: "Digital Wallet" - Tokenisation of Commercial Banks' deposits (Riel / USD) - Objectives: 1- Financial inclusion (Mobile-based, easy access) 2- Progressively decrease use of USD 3- Adopt Bakong a RTGS DLT-based system that did not exist yet - Partnerships: Soramitsu Blockchain firm, HyperLedger for tech platform - Each wallet linked to Commercial Banks, Users send money via QR Code or Phone Number CBDC working groups launched quite late (Not yet Bank of Korea decided on whether or not to issue a CBDC) BSP Also late actor (Potentially no implementation before **Philippines** 2023 minimum: Prudent approach)

XX

XXX

Launched on Oct. 20th becoming de facto **Progress** the 1st live retail CBDC in the world Launched on Oct. 28th for a trial period. Will **Progress** be issued by Partner institutions in Cambodia Getting started in March 2020 => End of 2021 Oct. 2020: announcement of partnership with **Progress** Klaytn (Korean Fintech) Working Group set in July (Slow progress) **Progress** Probably no outcome before next year **Progress** XXX



Central Bank of Uruguay – e-Peso

Strategy

<u>Digital Currency Project</u> to address currency stability issues in the region & improve financial inclusion

Scope

Individuals & Corporates
Online/Offline with possibility for P2P transactions

Stakeholders

Antel (State-Owned Telecom): Operator Giori: e-Peso creation & management InSwitch: MTS e-wallet for end-users RedPagos: Transactions, fund transfers

Technical specificities

"Digital" Money more than Cryptocurrency as it is not based on Blockchain protocol, which was on purpose originally to enable easy offline access and then enhance inclusiveness

Planning

6-month pilot [Nov. 2017-Apr. 2018]:

 Launch of a PoC with Individuals & Corporates to test account opening & transfers



JP Morgan – JPM Coin

2020-11-18

Strategy

Enable Real-Time settlements of irrevocable transactions using a Digital Asset backed by USD

Scope

Wholesale CBDC for Corporate Clients of the bank (1st step)

Stakeholders

JP Morgan (Owner) Consensys (Tech & Business Partner)

Technical specificities* Architecture: Permissioned Blockchain built on Quorum (now owned by Consensys) using Go-Ethereum Protocol

Planning

Project officially launched in Feb. 2019

⇒ 1st phase: PoC using JPM Coin for securities, commodities & bond exchanges with some large corporate clients in Europe, US & Japan

Updates JPM Coin Live Status Quorum applications thriving JPM Coin Progress: ⇒ Discreet Live with 1st Big Corporate clients [Oct. 2020] ⇒ Creation of Onyx BU dedicated to Blockchain projects ⇒ Next steps: No plan to widen to retail clients so far, but project to digitize paper checks using Blockchain **Quorum developments:** Progress ⇒ INN (Interbank Information Network - with 344 financial participating institutions) renamed Liink (Oct. 2020) and ready to be used as part of payment validation protocol ⇒ Aug. 2020: Consensys officially completes acquisition of Quorum with JP Morgan taking an important stake in Consensys [Cross-strategy announcement expected in Q4 2020]: JPM Coin still based on Quorum Leverage on "Consensys Quorum" platform to develop blockchain-based financial services: ⇒ Offer technical capabilities to various financial **Modifications** institutions (banks & even beyond Fls) ⇒ Furthermore, Consensys Quorum is already in scope involved in CBDC initiatives: Ubin (SGP), Inthanon-LionRock (HKG/Thailand), Khokha (South Africa)



Facebook – LIBRA*

2020-11-18

Strategy

Leverage on the extended customer base of Facebook to create a worldwide payment ecosystem & community

Scope

- Priority given to cross-border payments
- Then, overall scope to be defined to develop a whole set of financial services

Stakeholders

Even though the Libra is a Facebook initiative, the Governance is shared among the Corporate members of the Libra Association headquarted in Switzerland (Neutrality)

Technical specificities*

- Libra is a Stablecoin backed by real assets (Bank deposits, stable currencies: €, \$, etc.)
- Calibra is the Digital Wallet that enables users to store Libra & personal data (Facebook Technology)
- FastPay is the payment protocol (Facebook Technology)

Planning

Libra is a digital asset initiated by Facebook in 2019. The detailed timeline has still to be defined by the members of the Libra Association



3- Appendix

- 1. Key takeaways from BIS first CBDC Report Oct. 2020
- 2. Inthanon-LionRock Wholesale CBDC Project Report Summary
- 3. Libra high-level Model
- 4. JPM Coin description

1- Key takeaways from BIS 1st CBDC Report – Oct. 2020 (1/2)

Objective

Define Key Principles, Main Risks & core features of a CBDC

Scope

Retail CBDC (Domestic & Cross-Border)
Methodology: Working Groups

Stakeholders

- Central Banks: Bank of Canada / ECB / BoJ / Sveriges Riksbank / Swiss National Bank / BoE / Board of Governors of FEDs
- Bank of International Settlements (BIS)

Summary

None of the above Central Banks have decided whether or not to issue a CBDC, but they have already defined 3 core principles for a CBDC:

- 1- Should not endanger financial stability
- 2- Co-exist with other forms of money
- 3- Promote innovation & efficiency

Planning

- 1st report of a series of regular reports and views
- Part of G20 working group preparation

Identified motivations & Risks for payment functionalities*

Continuity

Continuous access (Anywhere / Anytime)

Resilience

- Easy to distribute in remote or disaster areas
- Offline capability should be a basic feature
- Cybersecurity Risk (Counterfeiting a CBDC will spread faster & impact higher volume than cash)

Payment Diversity

Interoperability with other forms of money

Financial Inclusion

Accessible for all (offline, illiterate, etc.)

Cross-Border payments

- Interoperability of CBDCs is a priority
- The report points some models (from use of national CBDC to full system interoperability)
- The priority may be to reinforce international standards (ISO-20022) for CBDC context

Data Privacy Full anonymity is not an option for obvious AML/CFT reasons, however data access must be controlled strictly (Who, what circumstances, etc.)

Fiscal transfers

CBDC linked to Digital Identity to facilitate Gvt support to Business (Covid, disasters, etc.)

1- Key takeaways from BIS first CBDC Report – Oct. 2020 (2/2)

Instrumen t Features	Convertible	To maintain singleness of the currency a CBDC should exchange at par with cash and private money.
	Convenient	CBDC payments should be as easy as using cash, tapping with a card or scanning a mobile phone to encourage adoption and accessibility.
	Accepted and available	A CBDC should be usable in many of the same types of transactions as cash, including point of sale and person-to-person. This will include some ability to make offline transactions (possibly for limited periods and up to predetermined thresholds).
System Features	Low Cost	CBDC payments should be at very low or no cost to end users, who should also face minimal requirements for technological investment.
	Secure	Both the infrastructure and participants of a CBDC system should be extremely resistant to cyber attacks and other threats. This should also include ensuring effective protection from counterfeiting.
	Instant	Instant or near-instant final settlement should be available to end users of the system.
	Resilient	A CBDC system should be extremely resilient to operational failure and disruptions, natural disasters, electrical outages and other issues. There should be some ability for end users to make offline payments if network connections are unavailable.
	Available	End users of the system should be able to make payments 24/7/365.
	Throughpu t	The system should be able to process a very high number of transactions.
	Scalable	To accommodate the potential for large future volumes, a CBDC system should be able to expand.
	Interopera ble	The system needs to offer sufficient interaction mechanisms with private sector digital payment systems and arrangements to allow easy flow of funds between systems.
	Flexible & adaptable	A CBDC system should be flexible and adaptable to changing conditions and policy imperatives.
Institution al features	Robust Legal Framework	A central bank should have clear authority underpinning its issuance of a CBDC.
	Standards	A CBDC system (infrastructure and participating entities) will need to conform to the appropriate regulatory standards (eg entities offering transfer, storage or custody of CBDC should be held to equivalent regulatory and prudential standards as firms

2- Inthanon-LionRock Wholesale CBDC – Phase 2 (1/3)



HKMA (Hong Kong Monetary Authority) & BOT (Bank of Thailand) have worked together to leverage on DLT to increase efficiency of cross-border transactions between both iurisdictions

Objectives

al-Time Cross-Border

Settlements

- 2- Simplify Liquidity Management
- 3- Provide Real-Time Compliance reports to improve traceability for the regulator's oversight

Methodolog

- Corridor network Model: Dedicated Cross-Border transactions' corridor separated from domestic settlement system
- Creation of a W-CBDC [Wholesale-CBDC]

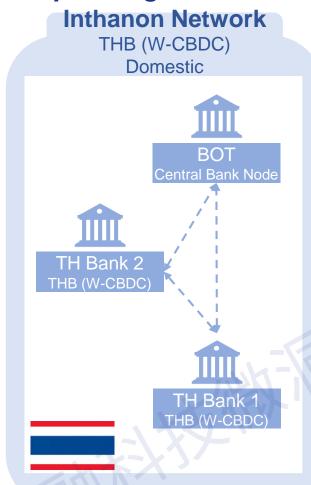
separated the cross-border transaction and domestic transaction

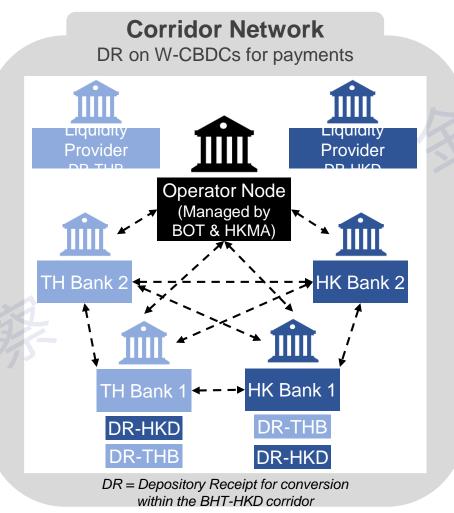
Model implemented for the PoC* 11 participating banks incl. HSBC. Standard Chartered. Bank 1 Bank 2 Bank 3 Bank x ZA (HK), Bangkok Node Node Node Node Bank, etc. R3 for the Technology (Corda Platform) & User **Network** Interface Consensus Service (Notary) BOT & HKMA: Node Corridor Operator – Oracle Node Masters, oversee (HKMA / BOT) Tokens, conversions, provides liquidity, etc.

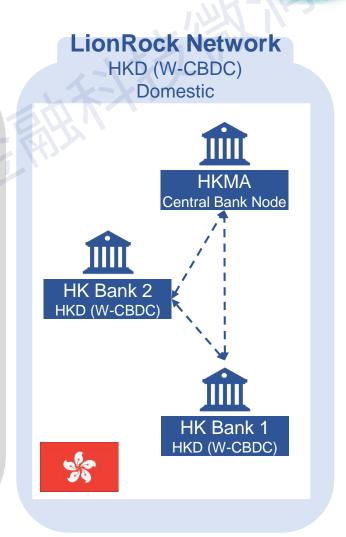
2- Inthanon-LionRock Wholesale CBDC – Phase 2 (2/3)



Operating Model of the Corridor Network*:







← - - - → W-CBDC THB

← - - - → DR-THB / DR-HKD



2- Inthanon-LionRock Wholesale CBDC – Phase 2 (3/3)



Key principles of the Inthanon-LionRock Corridor Network*:

DR 存托凭证

DR Conversion

 On-demand process with banks requesting a number of tokens to be converted from W-CBDC to DR in the corridor network by the Central Bank (Control the amount of DR)

Cross-Border Fund Transfer As payments in both DR-LCY (Local Currency) and DR-FCY (Foreign Currency) are allowed in the corridor network, banks are able to transfer DR tokens to other banks in 3 possible scenarios: 1- Send DR-LCY funds to foreign bank, 2- Send DR-FCY to another local Bank, 3- Send DR-FCY funds to a foreign bank

Fund Transfer with embedded **FX** Execution

• FX conversions are performed on the platform, then FX transaction & fund transfer are executed simultaneously on the Corridor once the rate is known

Liquidity Management Netting solution: Queueing mechanism & transfer between participants in case of gridlock in the corridor network => when a bank doesn't have sufficient DR-xxx for the transaction

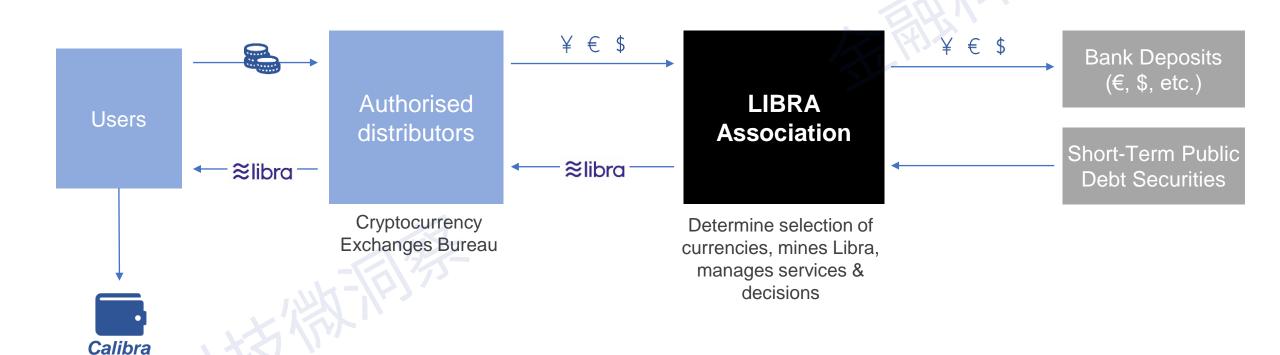
Regulatory Compliance

- Just-in-Time liquidity: To resolve a deadlock (no netting solution)
- Real-Time monitoring: View on the whole process & reporting at any time (Of local & Corridor RTGS) for all kinds of transactions
- Compliance with Local Regulation (Tracking of off-corridor arrangements, daily limits, etc.)

3- Facebook – Libra Model



High-Level Model of Facebook Libra



4- JPM Coin basic concept (1/5)

Foreword on JPM Coin

- Stablecoin which value is backed by USD (1 JPM = 1 USD)
- **Objective:** Enable Real-Time settlements of irrevocable transactions (Speed & security)
- Architecture: Permissioned Blockchain built on Quorum (Internal tool) using Ethereum Protocol
- Target: Large corporates (1st phase)
- Launch: 2020 (Still on development phase as of April 2020)

Quorum Architecture Distributed Distributed Distributed App (Users) **QUORUM** Transaction Crypto Enclave Manager Network Quorum Chain Manager **GO-Ethereum**

Transaction Manager: Controls access to encrypted data for private transactions, local data store & communication with other Transaction Managers.

Crypto Enclave: User Private Key Management.

QuorumChain: Votingbased, BFT-Hardened* consensus mechanism using Ethereum to verify & propagate votes through network.

Network Manager: Controls access to network.

*BFT (Byzantine Fault Tolerant) consensus mechanism highlights traitor nodes. The traitor (which is a flaky or malicious node) sends conflicting messages, leading to an incorrect result of the calculation that the distributed system is trying to perform

4- Go-Ethereum Protocol (2/5)

Quorum is built on Ethereum Protocol with four main distinctions:

Permissioned

- Closed architecture
- Consortium Blockchain: Participants are pre-approved by an authority, then each node is managed by a trusted party approved by JP Morgan

Privacy

- Public transactions are like Ethereum
- Private transactions are publicly verified only, but private details (Transactions & Contracts) are visible only to parties
- Message Transfers secured via Constellation encryption solution

Quorum

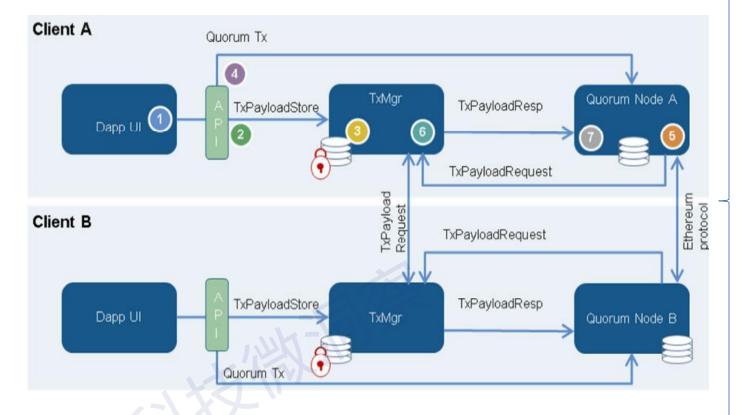
Consensus

- QuorumChain: Majority Voting Protocol
- Voting right triggered via Smart Contract

Performance

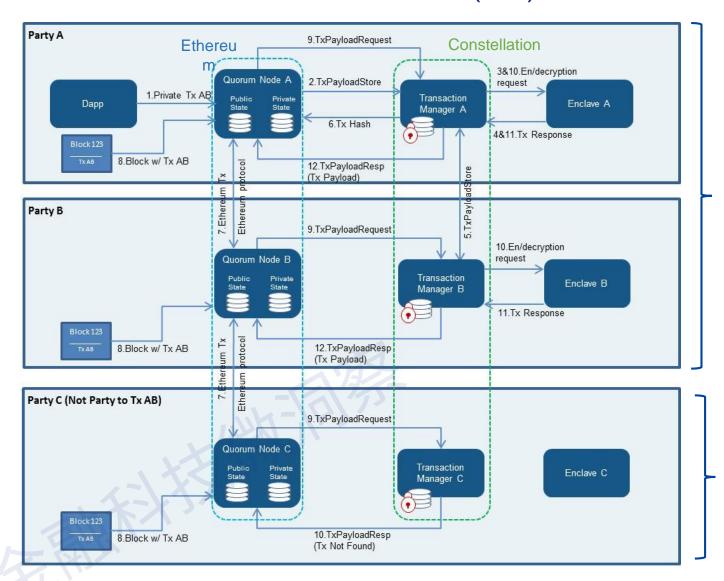
 Fast (Hundreds transactions/s) thanks to consensus process: Voting triggered by Smart Contracts with few nodes & encryption via Constellation solution (Outside the chain)

4- Smart Contract illustration* (3/5)



- User sends transaction to Quorum Node specifying recipient & transaction payload
- Preparation of transaction Payload Record by generating a symmetric key to encrypt the payload, then links it to the Transactions' parties Public Keys, and finally sends it to the Transaction Manager for storage
- Transaction Manager validates & stores the Transaction payload message
- Transaction sent to Quorum Node with only the hash of the encrypted payload (Generated Step 2)
- Quorum Node receives a new block for validation, then requests the payload data from Transaction Manager
- Transaction Manager validates signature, looks at the transaction hash, checks if the requester is a party to the Tx, then returns encrypted payload & the Symmetric Key
- Quorum Node decrypts the Symmetric Key, the transaction payload, then sends it for execution of the contract

4- Quorum's Transaction Process* (4/5)



The nodes of the parties A & B (Involved in the transaction) get all the necessary information to complete the transaction

The **Party C** is not part of the transaction, and then is only part of the voting-based consensus

4- JPM Coin – Stablecoin analysis (5/5)

 JPM Coin offers great benefits for domestic & cross-border payments, however as it is still at a project phase, financial institutions will have to closely follow its operational implementation

Pros

- Meet most of Banks' requirements for Privacy, security, audit & controls (Financial institutions are still less willing to join public blockchains)
- + Fast protocol
- + Stablecoin backed by USD and a global bank compliant with global regulations
- + Easy plug-in to Quorum Blockchain
- + Evolutive platform based on Ethereum

Cons

- Efficiency relying strongly on the closed loop protocols potentially difficult to maintain with a wider group of users
- Need to diversify assets backing the JPM Coin (Not a blocking point as the platform is asset-agnostic, USD was the preferred choice for the 1st phase of the project)
- Questions about the need for a Blockchain technology to ensure Real-Time
- Settlements

Currently targeting only big corporates

THANKS



Welnsights