数字人民币 e-CNY
Motivation

- To improve the efficiency of the central bank payment system
- To provide a backup or redundancy for the retail payment system
- To enhance financial inclusion
Established a task force

2014

• Built the first PoC
• Established PBCDCI

2016

Started R&D project

2017

First batch of e-CNY pilot cities and areas

2019

Released White Paper

2020

Second batch of e-CNY pilot cities and areas

2021

• Launched the e-CNY App
• Showed in Beijing Winter Olympics venues
• More pilot cities

2022

To be expected
e-CNY Pilot

Beijing
Dalian
Xiong’an
Zhangjiakou
Qingdao

Suzhou
Shanghai

Hangzhou, Ningbo, Wenzhou,
Huzhou, Shaoxing, Jinhua

Fuzhou
Xiamen

Tianjin
Xi’an
Chengdu
Chongqing
Changsha

Guangzhou
Shenzhen

Hainan
数字人民币APP
(The e-CNY APP)
Two-tier System

WeBank

MyBank

WeChat Pay

Level Playing Field

CMB
BOCOM
BOC
ICBC
PSBC
CCB
ABC

MYbank
Balance between Privacy & AML/CFT
Balance between Privacy & AML/CFT

- Personal Information Protection Law
- Internal controls
- Large-value and suspicious transaction reporting
- Big data analysis and risk monitoring
Loosely coupled with bank account

Underbanked √
Foreign visitors √

User-friendly APP designs

Elderly √
Physically challenged √

Free of charge for intermediaries and users

Real economy √
Business environment √
Show in Beijing Winter Olympics

New payment wallets and innovative payment method
E-CNY Smart Contract: Prepaid Fund Management

Traditional Model

- User account
  - Payment to buy card
  - Escrow account
  - Payment to buy goods/services
  - Merchant account
  - Merchant Instructions

E-CNY Smart Contract Model

- E-CNY wallet
  - Payment to buy card
  - Sub-wallet with smart contract
  - Payment to buy goods/services
  - Merchant wallet
  - Smart Contract
E-CNY Smart Contract: Fiscal Stimulus

- Government provides subsidies to the targets
- Unused portion will be returned after pre-decided deadline

- Can be used in specified industries, businesses or commodities
- Can not be transferred, deposited into bank accounts or used for financial investment

Government

Individuals, Households, SMEs

Merchants

Wallet with Smart Contract
Minimized Impact

Wallet Balance: RMB 1.4 Bn
as of 0.02% of M0
0.0006% of M2

M₀
RMB 9.1 Trn

M₁
RMB 64.7 Trn

M₂
RMB 238.3 Trn

Note: Data as of Dec 2021
Principles for e-CNY Cross-border Usage

- No Disruption
- Compliance
- Interoperability
Lego Bricks Approach in mBridge Project
Thank You