Banco Central do Brasil's Innovation Agenda

Valor Capital's Crypto Workshop



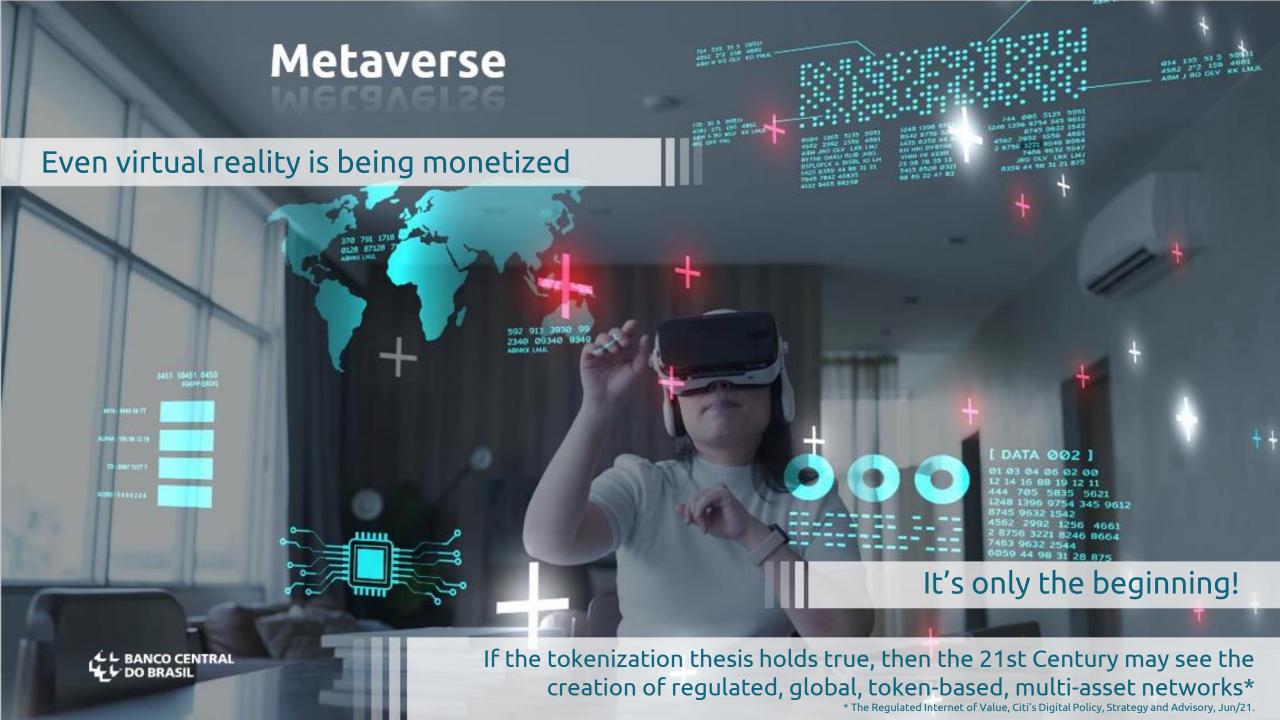


What is happening in the digital world

- People look for a digital representation of value
- Assets are becoming encrypted
- Distributed ledgers allow assets to be verifiable and transferable, with divisibility

So, what is the real debate?

- Are we moving towards a tokenized economy?
- Tokenizing assets for negotiation is the main transformation
- To extract value from an asset in its digital form
 - Art, pictures, properties, ideas and even money





Complete digitalization of financial intermediation

 The 4 fundamental blocks: Pix, Open Finance, currency internationalization and Digital Real

Goals:

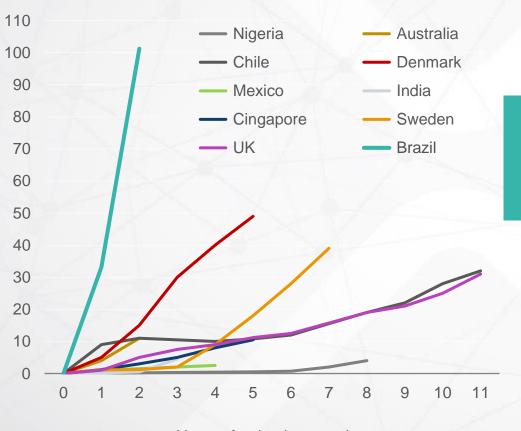
- Greater inclusion
- Lower cost of intermediation
- More competition, with reduced entry barriers
- Risk control efficiency
- Data monetization
- Complete tokenization of financial assets and contracts



Pix popularity increases



Per capita transactions – by country

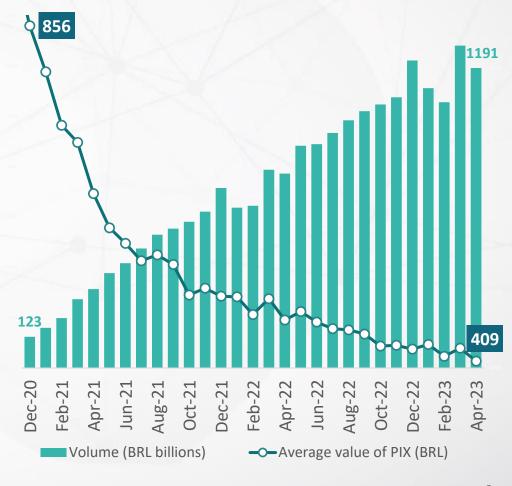


Years after implementation

PIX registered keys

Total : **601,6 mi** Apr/2023

Pix transactions volume and average value



Pix – New frontiers

Evolution agenda



Pix charge enhancements

- Integration via Simila
- Centralized base to facilitate the management of charges.

standardized file;

Pix Automatico launch

- Similar to direct debit;
- End of bilateral agreement paradigm;
- New alternative for recurring payments.

Pix by PISP in Open Finance

- Studies for a more user-friendly journey;
- Simplicity with fewer "clicks".

Buy Now Pay Later

- Market initiatives of BNPL using Pix;
- Integration with Open Finance

Pix International

- Technical cooperation event with more than 30 countries: Deep Dive into Pix.
- Bilateral meetings: Uruguay, Colombia, Ecuador and Peru.



Gradual implementation

Goals:

 To promote competition, efficiency and data security.

Open Finance in figures:

- 13 API developed and 16 under development for the next months.
- More than 31 millions of consents to share data.
- Average higher than 800 millions API calls (data phase) per week.
- More than 24 billions API calls (data phase).
- More than 800 participating institutions (data phase and payments initiation phase).



Brazilian model is a world reference



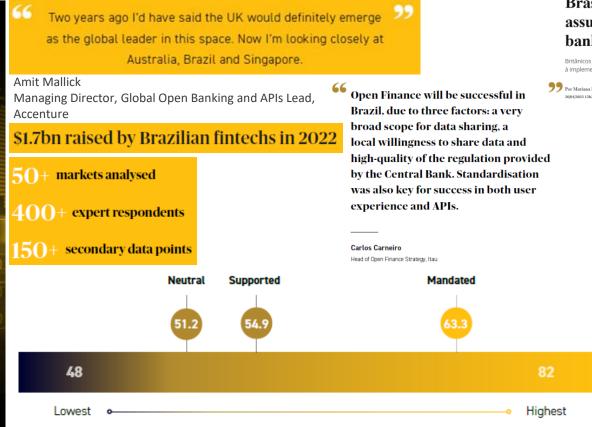


Image shows avg Consumer score of markets by Government Open Banking approach.



Brasil deve passar Reino Unido e assumir a liderança mundial no 'open banking', diz estudo

Britânicos são considerados pioneiro e, até agora, mantêm a liderança global no que diz respeito à implementação do sistema

Por Mariana Ribeiro, Valor — São Paulo



UK

0 - 5 million connections 5 years

Brazil

O-5 million connections 1 year









A CBDC for Brazil: The Digital Real

DeFi markets: a source of inspiration



Opportunities

- Reduced transaction costs and friction for:
 - designing, distributing, negotiating and settling financial deals
- High degree of
 - standardization and functional interoperability, reuse and composability of financial services
 - auditability, traceability and transparency
 - accountability: software-based governance
- Financial inclusion
 - automatic tools available to everyone, with transparency and non-discriminatory execution

Challenges

- Scalability and settlement fees
 - blockchain platforms are limiting
- Limited interoperability
 - blockchains traditional financial services
- Lack of maturity
 - Governance: potential for facilitating the crime of money laundering
 - Technology: operational risks, poor implementation choices, failed software execution and interdependencies



Digital Real

The Digital Real project enters a new phase

Pilot Project

Purposes

- Digital Real platform pilot development
- Consultation channel with society on its development

Guidelines

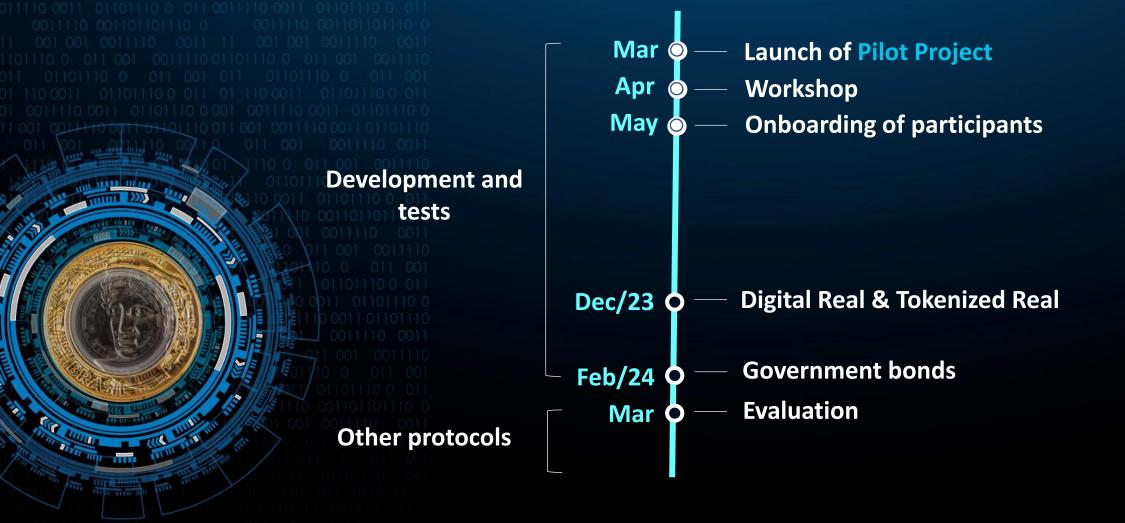
- 1. Multi-Asset DLT Hyperledger Besu
- 2. Simulation of retail transactions
- 3. Fractionalization of assets
- 4. Access to services through financial and payment institution





Digital Real

Pilot Project – Next Steps



Phases of the integration process

- 1. Pix and Open Finance
 - Payment initiator
- 2. Pix and other products
 - Ex.: Credit, etc.
- 3. Pix and currency internationalization
- 4. Pix and Digital Real (CBDC)
 - Digital wallet and non-digital wallet
- 5. Digital Real (CBCD) and Open Finance
- 6. Financial aggregator
 - Competition by channel
- 7. Build of a digital wallet



Traditional products and financial services



Credit



Investments



Insurances



Private pension



Exchange

New solutions



Data aggregation



Payment initiation



Recurrence

SuperApp



Financial products and services





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Integrated solutions - "Super App"

Traditional products and financial services



Payments

Investments

Insurances

Private pension

Exchange

New solutions

Data aggregation

Payment initiation

• Recurrence

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Recurring payments

SuperApp Signature Financial products and services



Integrated solutions



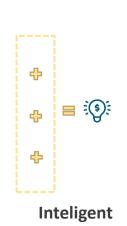


Traditional products and financial services

- Credit
- **Payments**
- Investments
- Insurances
- Private pension
- Exchange

New solutions

- Data aggregation
- Payment initiation
- Recurrence



investments







Traditional products and financial services









Private pension

© Exchange

New solutions

Data aggregation

Payment initiation

• Recurrence

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Investment redemption for payments







Traditional products and financial services



Payments

fil Investments

Insurances

Private pension

Exchange

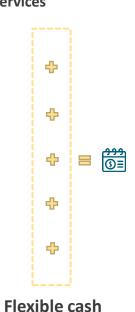
New solutions

Data aggregation

Payment initiation

• Recurrence

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management for companies







Traditional products and financial services



Payments

Investments

Insurances

Private pension

Exchange

New solutions

Data aggregation

Payment initiation

Recurrence



foreign suppliers







Integrate

Integrated solutions - "Super App"

Traditional products and financial services



Payments

M Investments

Insurances

Private pension

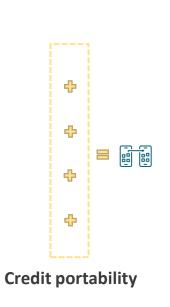
Exchange

New solutions

Data aggregation

Payment initiation

• Recurrence



SuperApp Financial products and services **S** Integrated solutions **(\$)** Pen







Offline ----





Super App: an example







Thank you!

Roberto Campos Neto Governor of Banco Central do Brasil June 2nd, 2023





