



G20
SOUTH AFRICA 2025



Solidarity

Equality

Sustainability



SOUTH AFRICAN RESERVE BANK

Committee on Payments
and Market Infrastructures



Retail payments evolution: the rise of instant payments

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23rd October 2025



भारतीय रिज़र्व बैंक
Reserve Bank of India
India's Central Bank



SOUTH AFRICAN RESERVE BANK

Presentation outline



Evolution of payments: from cash to a myriad of electronic offerings

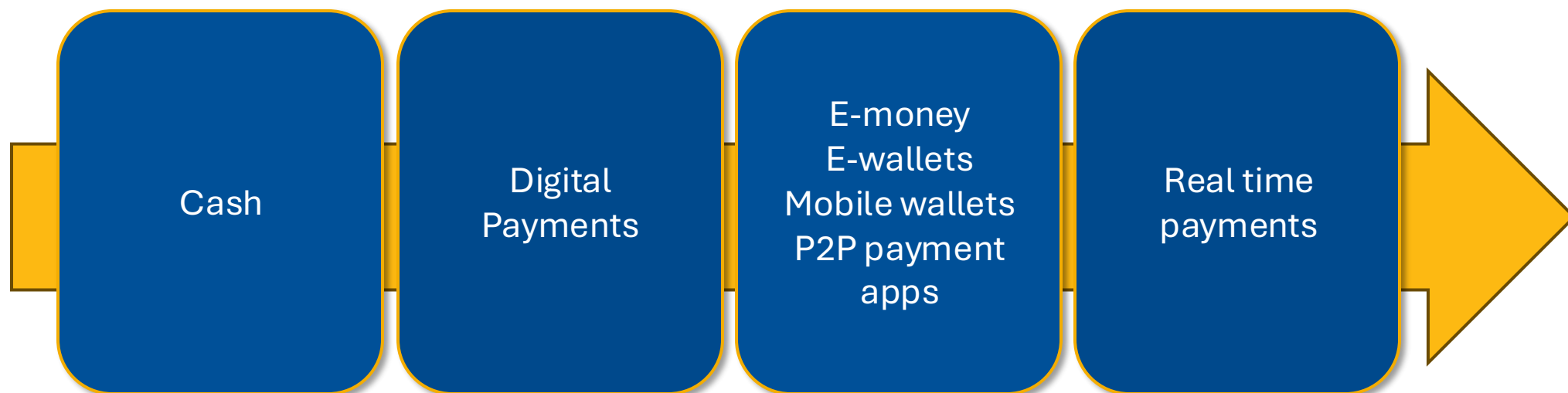


Domestic instant payments: India and Sub-Saharan experiences and learnings

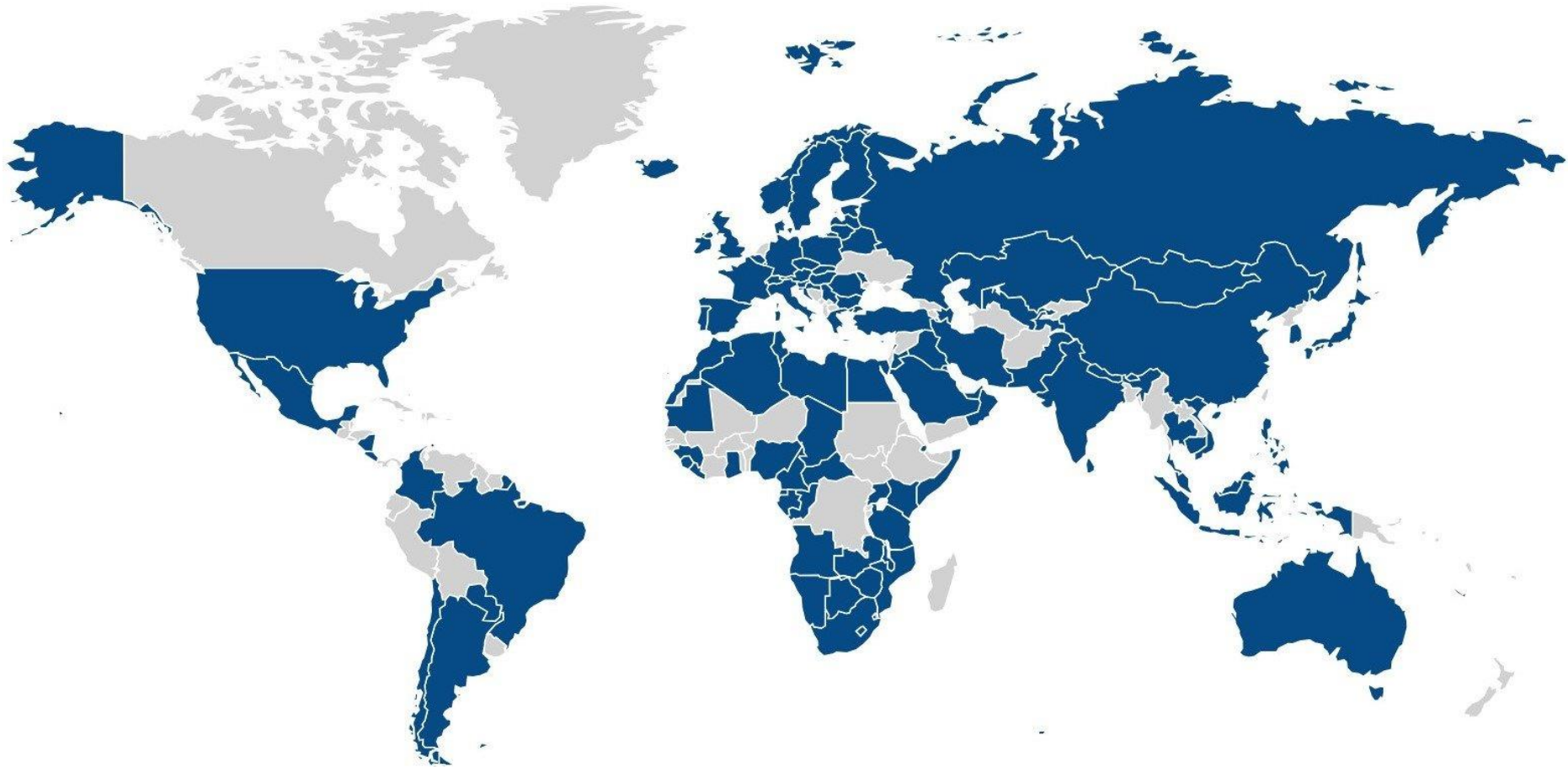


Promising future of cross-border instant payments

Evolution of payments



Globally, over 75 countries have implemented fast payment systems (FPS)



Source: World Bank

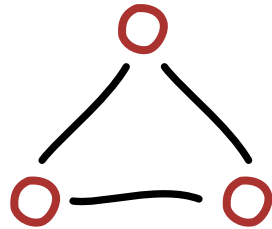
Instant payments systems interlinking

Every link requires a complex legal negotiation and technical integration project

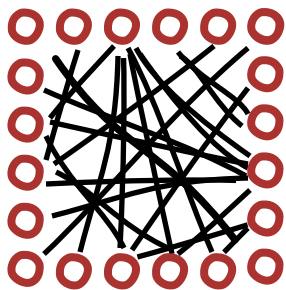
Bilateral



2 countries 1 link



3 countries 3 links

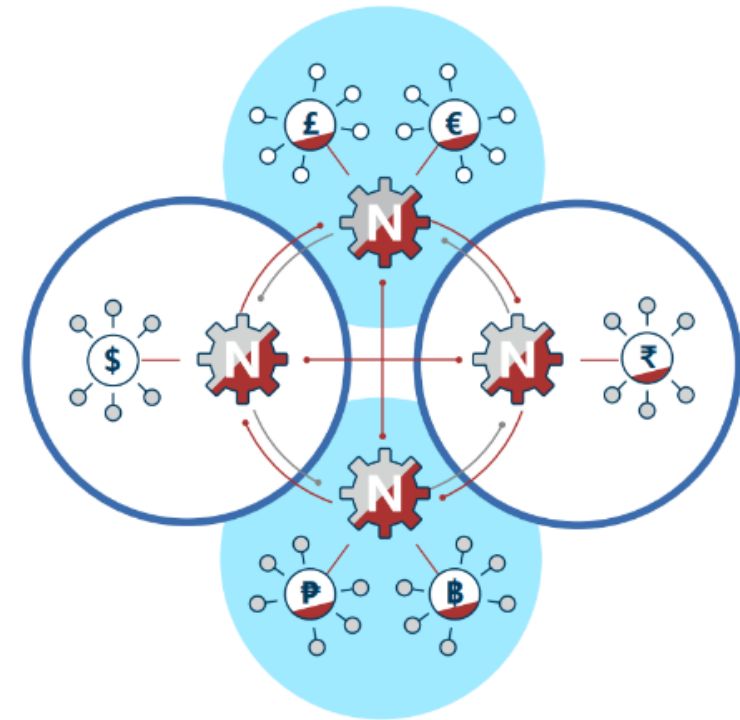


20 countries 190 links



75 countries 2,775 links

Multilateral (Nexus)



Domestic instant payments: **India**



Key enablers: Jan Dhan Yojana, Aadhaar, and Mobile telecom expansion



Impact: financial inclusion and economic growth, empowering millions of citizens and MSMEs



From 0.1 mill trans Oct-2016
to 19+ billion mid-2026

85.5% of Indian households
have access to UPI services

491 million users
65 million merchants
678 million merchants QRs
85% of all digital transaction

Domestic instant payments: **India**



Challenges:

- Cybersecurity
- Rural connectivity
- Digital literacy



New opportunities:

- Domestically: credit integration, e-commerce and agriculture use cases
- International expansion by connecting to other instant payment systems

Domestic instant payments: Sub-Saharan Africa



Background and origin:

- 54 countries, 40 currencies, inequality
- Mobile money, pioneered by M-Pesa, revolutionised financial inclusion across Africa



Impact: financial inclusion

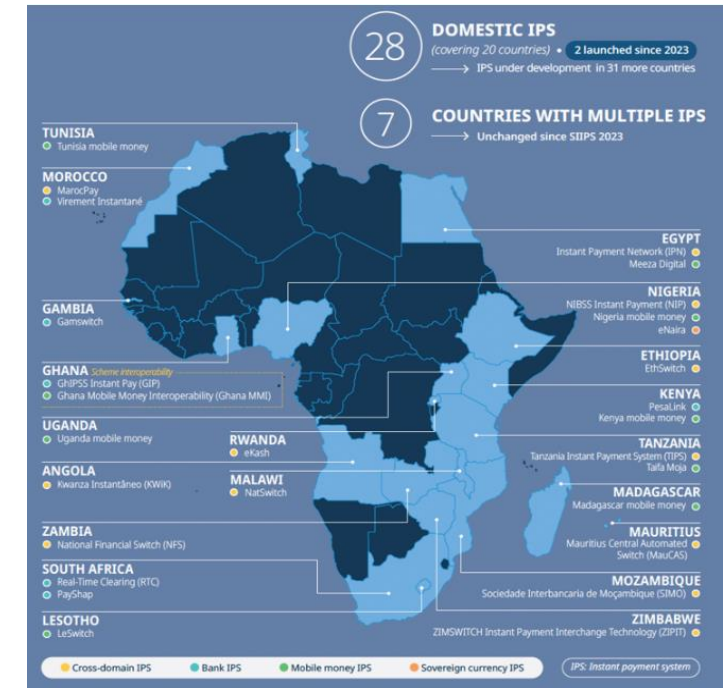
- Account ownership, 34% to 58% of adults 2014-24



Challenges: fragmentation, limited interoperability, and persistent cash reliance



New opportunities: cross-border payment initiatives



Source: AfricaNenda

Domestic instant payments: **South Africa**



Background and origin: economy remained stuck between developed and developing



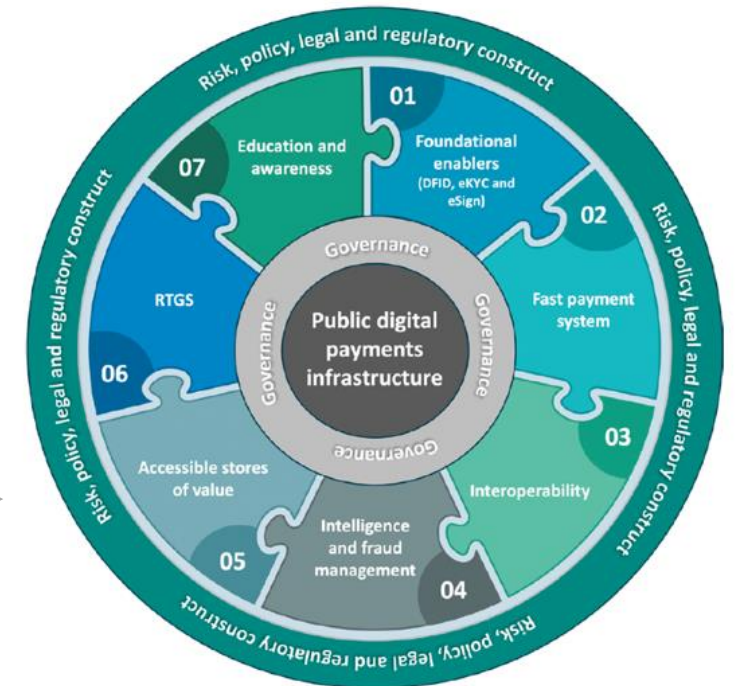
Impact: implementation of PayShap domestic fast payment system



Challenges: predominantly cash-based economy



New opportunities: South Africa's Payments Ecosystem Modernisation (PEM) programme



Promising future of cross-border instant payments

Overview of the priority themes and actions for achieving the G20 targets



Source: FSB (2023), Priority actions for achieving the G20 targets, February.

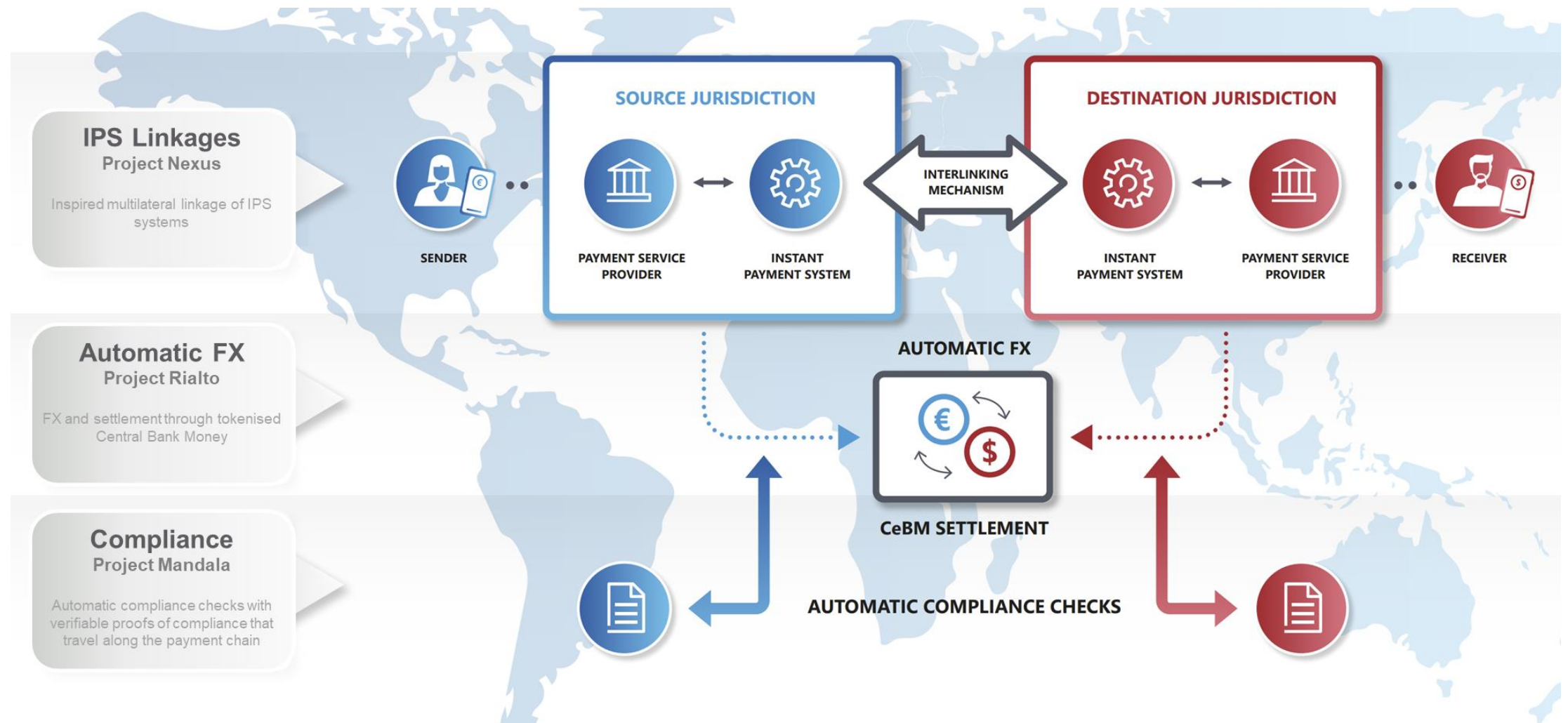


Interoperability of payment infrastructures

Streamlining compliance and fighting financial crime

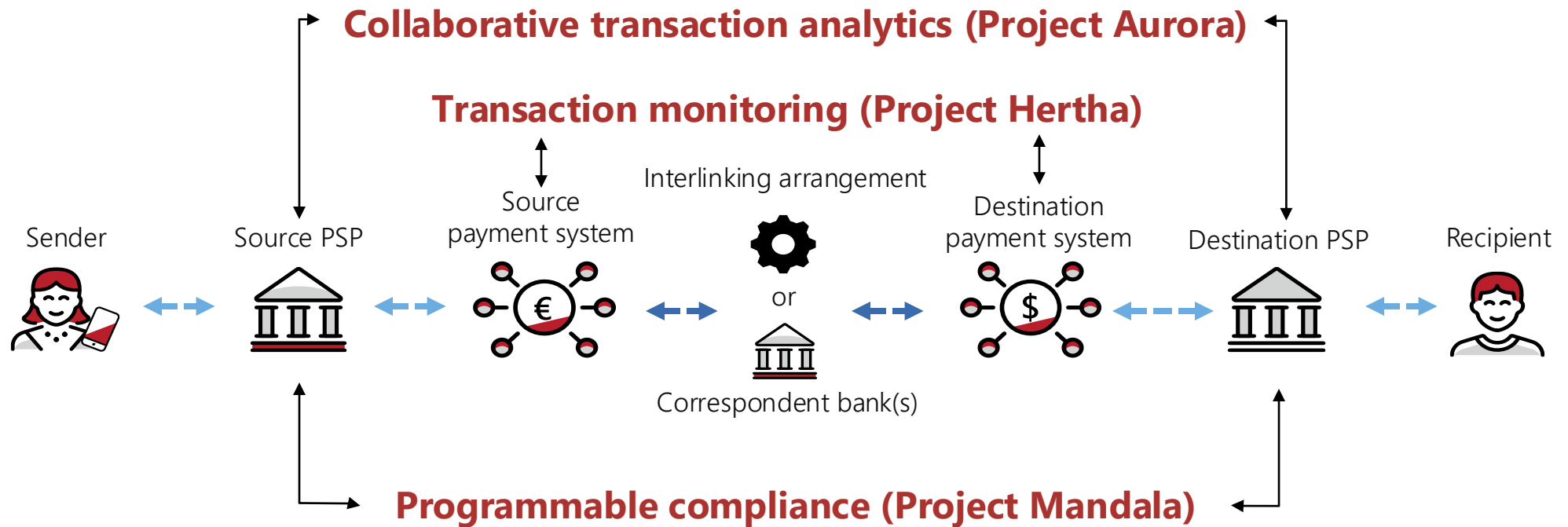
Improving FX clearing and settlements

Start somewhere but imagine the future



Streamlining compliance and fighting financial crime through a **technology stack**

Ensuring Robust Cybersecurity (Raven, Polaris)

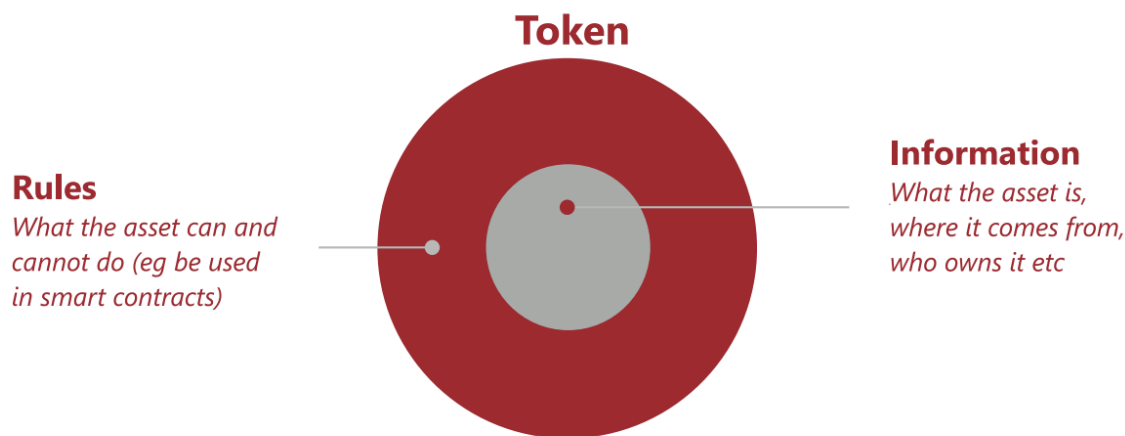


Upholding Data Privacy and Security (Aurora, Hertha, Mandala)

The future of money in a tokenized world

Tokens both define assets and specify what can be done with them

Graph 1



Source: Aldasoro et al (2023).

Source: [BIS Annual Economic Report 2023](#)

Tokenisation enables multiple assets and financial services deployed on shared ledgers bringing unique value

Programmability

Atomicity

Composability

- **Improve the existing** – complement by overcoming inefficiencies of current architecture
- **Enable the new** – substitution through new contracting possibilities

Conclusion

Success in the future of both domestic and cross-border instant payments

- **Innovation and robust digital public infrastructure** built through interoperability, standardisation and systems interlinking
- Higher **public-private collaboration** to decrease fragmentation
- Alignment in purpose and **commitment to inclusion**
- **Design and governance** of payment systems are central to broader goals of economic development, financial stability, and social equity

Thank you