

RETHINKING CENTRAL BANK MONEY IN THE DIGITAL AGE

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30 SEPTEMBER 2025



Introduction Changes in the financial and payments sectors

Digitalisation of the economy and payments

Emergence of the distributed ledger technology

Tokenisation of finance

Two major challenges for central banks



Designing a **trusted and sound regulatory framework** to foster the development of innovation



Adjusting the provision of central bank money to **safeguard the role of central bank money** – and thus monetary sovereignty and financial stability



I. Supporting the tokenisation of finance The emergence of tokenised finance presents opportunities and risks



A promising technology financial players are interested in



However, this trend raises the question of the settlement asset to be used



Tokenisation = issuing financial assets (settlement assets or securities) in the form of tokens that circulate on **distributed** ledgers (DLT/blockchain).



No central bank money in tokenised form. Yet, central bank money is the safest and most liquid settlement asset

Identified benefits of DLT/blockchain



Transparency





Availability on 24/7 basis



The use of private settlement assets (e.g. **stablecoins**) carries **risks** for financial stability





Volatility



Fragmentation

Tokenised assets also carry risks for investors/users



Money Laundering



Cyber risks

ROLE OF CENTRAL BANKS **REGULATION:** contribute to the adaptation of regulations

INNOVATION: exploring the added value of DLT and CBDCs



I. Supporting the tokenisation of finance MICA regulation: a pioneering regulatory framework to be strengthened

MICA regulation (adopted in 2023)

A VITAL REGULATORY STEP FORWARD

- → A comprehensive regulatory framework across the EU for crypto-assets, stablecoins, and related services
- → A tool intended to protect EU consumers, ensure market integrity, and safeguard financial stability

CURRENT RISKS / Partially covered by MiCA

- ◆ A predominating USD-denominated and non-bank market (99% of market capitalisation)
- ◆ DeFi and crypto-conglomerates outside the scope of MiCA

FUTURE RISKS / The need to bolster the EU framework

- ◆ Rapid market growth and extension of use cases outside the crypto sphere (cross-border payments, tokenised finance, retail)
- ◆ Large scale adoption of USD-denominated stablecoins, issued by non-bank and non-European entities

TOWARDS MICA II?

- Limitations of stablecoins in the retail sphere on :
- > the use of stablecoins,
- > the volume in circulation
- the currency
- Limitation or prohibition of multiissuance models



I. Supporting the tokenisation of finance Why explore a wholesale CBDC?

The emergence of decentralised finance (DeFi) raises the question of the settlement asset used



No central bank money in tokenised form. Yet, central bank money is the safest and most liquid settlement asset



Monetary sovereignty issue: potential rapid growth of stablecoins, predominantly non-bank issued, non-European, and denominated in USD

Central banks must maintain the anchoring role of central bank money, while safeguarding its **coexistence with other settlement assets**.

Wholesale CBDC

Stablecoins

Crypto-assets

EXPERIMENTS: wholesale CBDC as a solution



I. Supporting the tokenisation of finance **Eurosystem's way forward: a two-track approach on wholesale CBDC**

NOV./DEC. 2024



Conclusion of exploratory work: strong demand for a CBDC to support financial market innovation and ensure interoperability with existing infrastructures

2025

Decision of the Governing Council:

- expand the initiative to settle transactions recorded on DLT in CeBM
- following two parallel tracks
- active contribution of the Banque de France

PONTES PROJECT: in the short run, develop and implement DLT platform for settlements in CeBM in TARGET (interim period) and wholesale CBDC, based on an interoperability model

Eurosystem short term solution

Q3 2026

APPIA PROJECT: in the long run, a more integrated, long-term solution for settling DLT-based transactions in wholesale CBDC

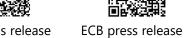
Towards a **European shared** ledger?

Beyond 2030

"Our approach will pay due attention to the Eurosystem's goal of achieving a more harmonised and integrated European financial ecosystem."

Piero Cipollone, ECB Executive Board member







BdF press release

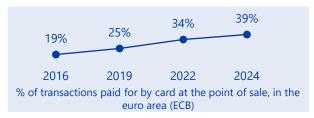
II. Supporting the digitalisation of retail payments with a digital euro Maintaining the characteristics of cash in the digital space



Lower use of cash in payments



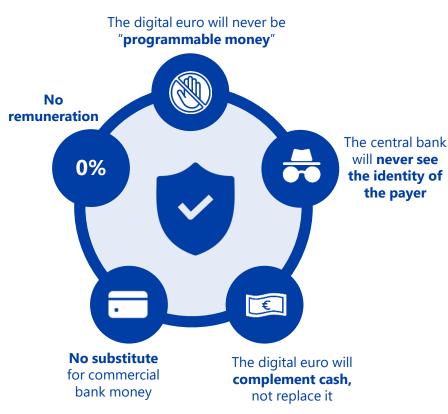








Freedom of choice









A fragmented European landscape...



...and a growing dependence on non-European players...



Only **5 euro area countries** still have their
own domestic card
schemes



Increasing market share of International card schemes



Big Tech are gaining momentum in payments



...giving rise to challenges for the European payment ecosystem







%

Sovereignty

Resilience

Competition

Merchant fees



The digital euro will strengthen European sovereignty and integration in payments



The distribution of the digital euro will be entrusted to commercial banks and other PSPs



The distribution of the digital euro will be governed by **open**, **harmonised acceptance standards** (describing all interactions, e.g. cards and terminals)



These standards may be **reused by private actors**, allowing them to offer their services easily and instantly across the euro area



The digital euro is designed as a "platform for innovation" that private players can leverage to deploy innovative use cases at the pan-European scale



II. Supporting the digitalisation of retail payments with a digital euro How and when could the digital euro be issued?



A cooperative approach to facilitate the integration of the digital euro into the payment ecosystem



Technical and legislative work advancing in tandem



A constant dialogue with **all market stakeholders** (banks, non-bank PSP, merchants, consumers)



Reuse, as much as possible, of **existing infrastructures** (e.g. terminals, ATMs, standards...)



Define a **viable economic model** for all ecosystem players (merchants, banks...)



Preserve financial stability through appropriate measures: holding limit (to be calibrated later), no remuneration



The **current phase** of the project launched in November 2023, allows to...



... finalise certain **analyses** (e.g. design of the scheme rulebook)



... conduct **experiments**



... select **providers** likely to develop the architecture



Governing Council decision in Q4 on whether to move on to the next phase of the project



The decision to issue a digital euro has not yet been made: it can only be taken once the European regulation has been finalised and adopted following the ongoing democratic debate



