

Tokenisation of financial instruments and central bank money settlement



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Piero Cipollone Member of the Executive Board of the ECB

Central bank money at the core of the financial system

A financial market infrastructure should conduct its money settlements in central bank money where practical and available

Central bank money settlement

- reduces risk
- establishes trust
- safeguards financial stability



Central banks must stay at the forefront of technology

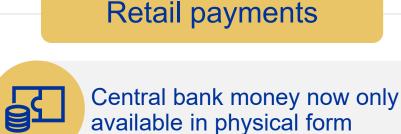
Ensuring that central bank money remains an attractive means of settlement...





for wholesale financial transactions solutions for settling transactions recorded on DLT platforms

Retail and wholesale complement each other



Great variety of stakeholders: consumers, merchants, payment service providers, legislators...



Day-to-day payments: typically lower values, higher volumes

Wholesale transactions

target

Digital central bank money has been available for decades

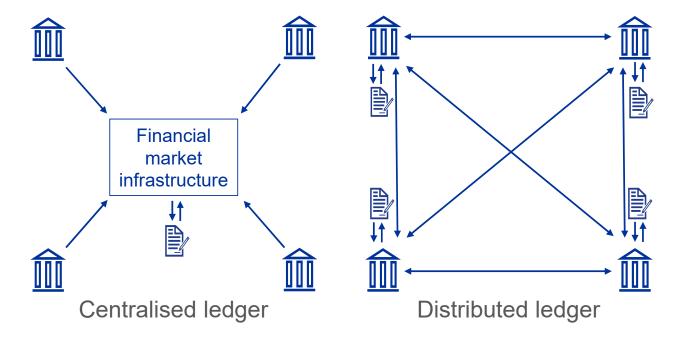


Narrower set of stakeholders, mainly from (existing/new) financial sector



Securities settlement, interbank payments: typically higher values, lower volumes

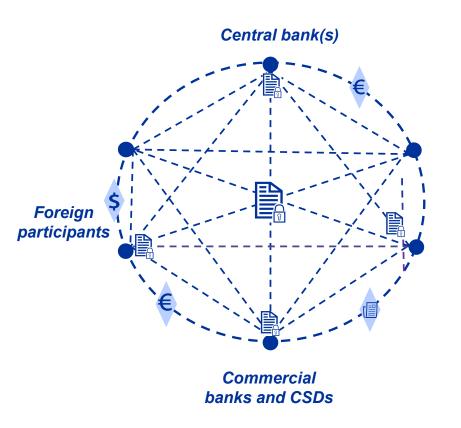
Industry is exploring distributed ledger technologies



With the aim of...

- increasing automation of conditional transactions
- reducing reliance on intermediaries
- increasing transparency

Potential benefits of DLT for the market



Efficiency gains through potential for:

- trading, settlement and custody on the same ledger
- automation via **smart contracts**
- 24/7 operation → overcoming time zone differences

Opening up new avenues:

- for financial instruments not currently serviced by financial market infrastructures
- for SMEs to access capital markets

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Implications for central bank money settlement

Current TARGET Services:

- settlement of payments in G central bank money in T2
- integrated settlement of ulletsecurities in TARGET2-Securities (T2S)

Market DLTs





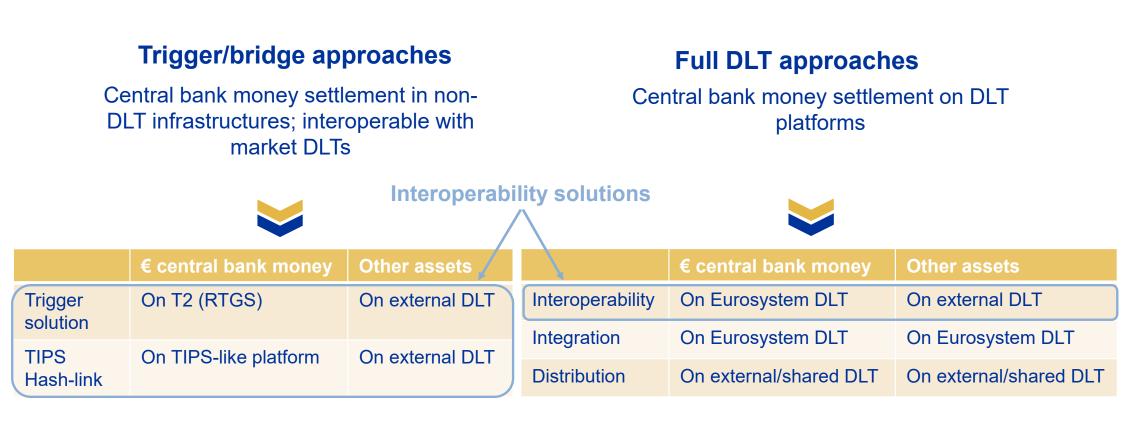
With tokenisation, securities can be recorded and settled on distributed ledger technology platforms

Risk of market fragmentation if multiple DLT platforms co-exist in the long-term but lack interoperability

○ What is the best way to enable central bank money settlement of the cash leg?

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Multiple options for central bank money settlement



Eurosystem exploratory work

Practical work with market stakeholders planned from May to November 2024 focusing on interoperability solutions:

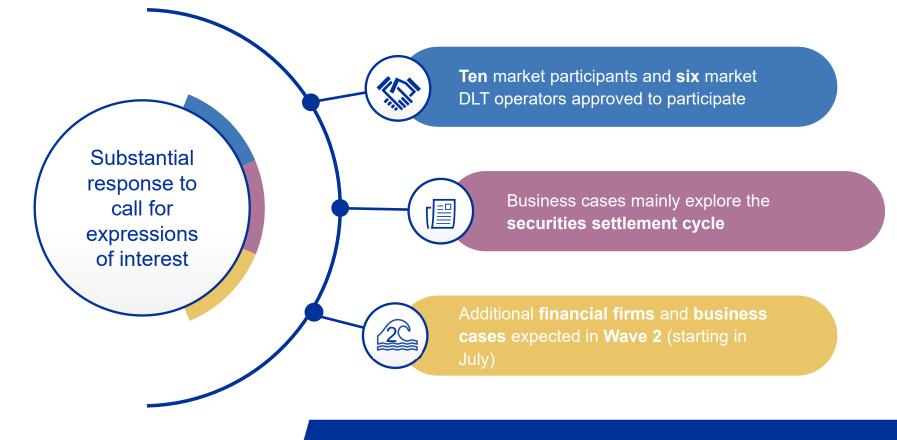
• **Experiments**: mock settlement of the cash and asset legs in test environments

Trials: actual settlement of transactions in central bank money in a limited setting for a limited period of time

We are among the first advanced economies to go beyond experimentation

N.B. the Eurosystem's exploratory work does <u>not</u> constitute a commitment by the Eurosystem to provide any steady-state solution(s) in the future or to make any changes to its current infrastructure.

First wave of exploratory work starts on 13 May



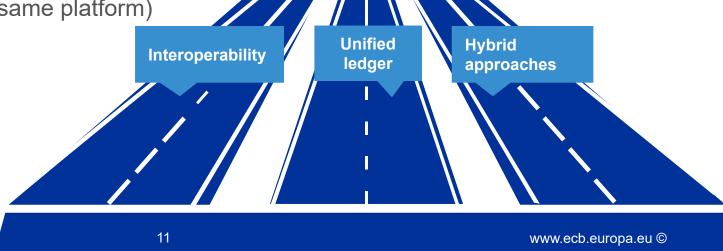
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Work on a longer-term vision

Key objectives:

- ✓ Preserve the stabilising role of central bank money
- ✓ Strengthen the efficiency of European financial markets
- ✓ Avoid re-fragmentation

Analysis of "unified ledgers" will continue (cash and assets on the same platform)



Related documents

- Speech: Modernising finance: the role of central bank money
- ECB Economic Bulletin article: Central bank money settlement of wholesale transactions in the face of technological innovation
- <u>Focus session: Potential use of new technology for wholesale central bank money</u>
 <u>settlement</u>
- News item: Participants chosen to explore new technologies to settle wholesale transactions in central bank money
- Exploratory work on new technologies for wholesale central bank money settlement