

# Tokenisation of financial instruments and central bank money settlement



#### Piero Cipollone Member of the Executive Board of the ECB

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## 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

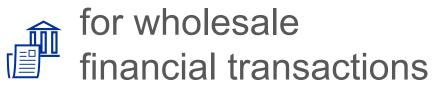
- reduces risk
- establishes trust
- safeguards financial stability



# Central banks must stay at the forefront of technology

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





solutions for settling transactions recorded on DLT platforms

## Retail and wholesale complement each other

#### **Retail payments**

Central bank money now only available in physical form



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



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

#### Wholesale transactions



Digital central bank money has been available for decades

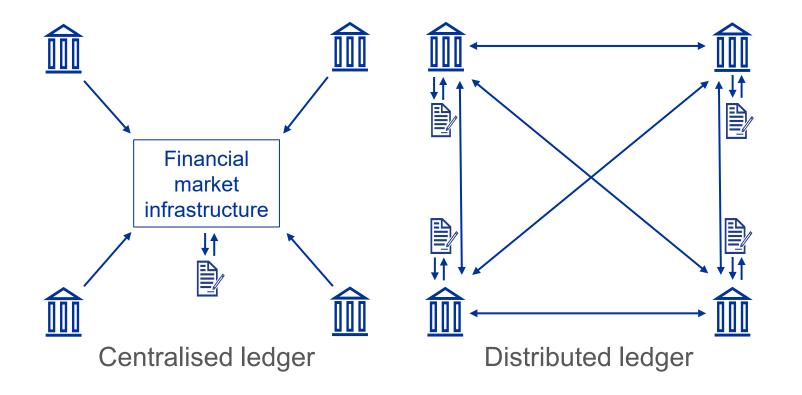


Narrower set of stakeholders, mainly from (existing/new) financial sector



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

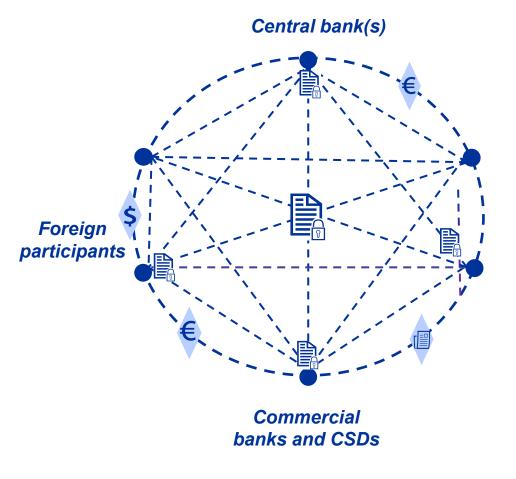
# Industry is exploring distributed ledger technologies



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:

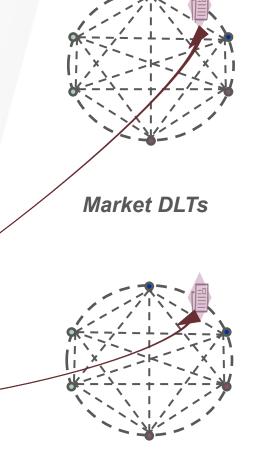
- for financial instruments not currently serviced by financial market infrastructures
- for SMEs to access capital markets

# Implications for central bank money settlement

**Current TARGET Services:** 

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

target

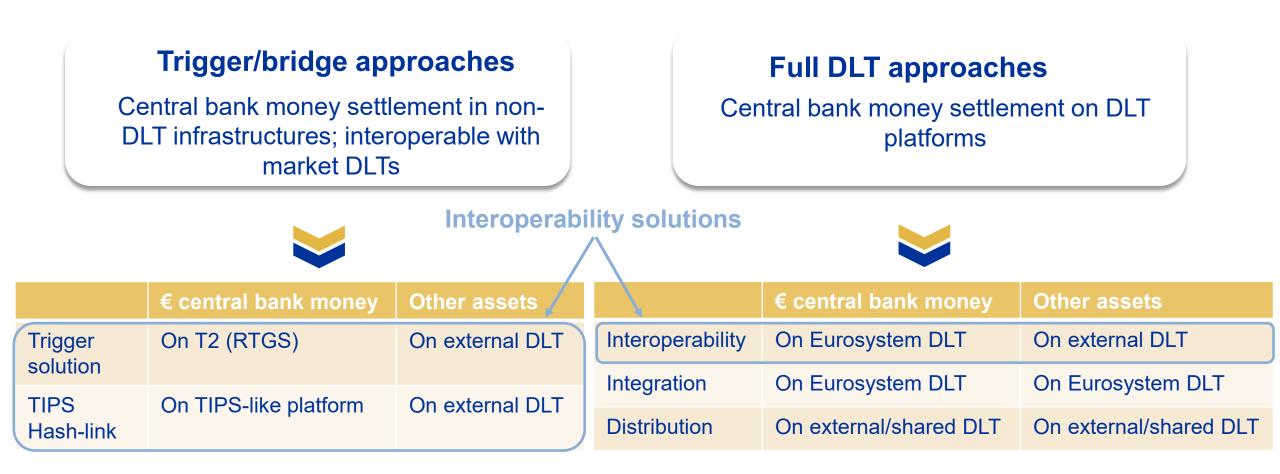


With tokenisation, securities can be recorded and settled on distributed ledger technology platforms

**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?

#### Multiple options for central bank money settlement



### Eurosystem exploratory work

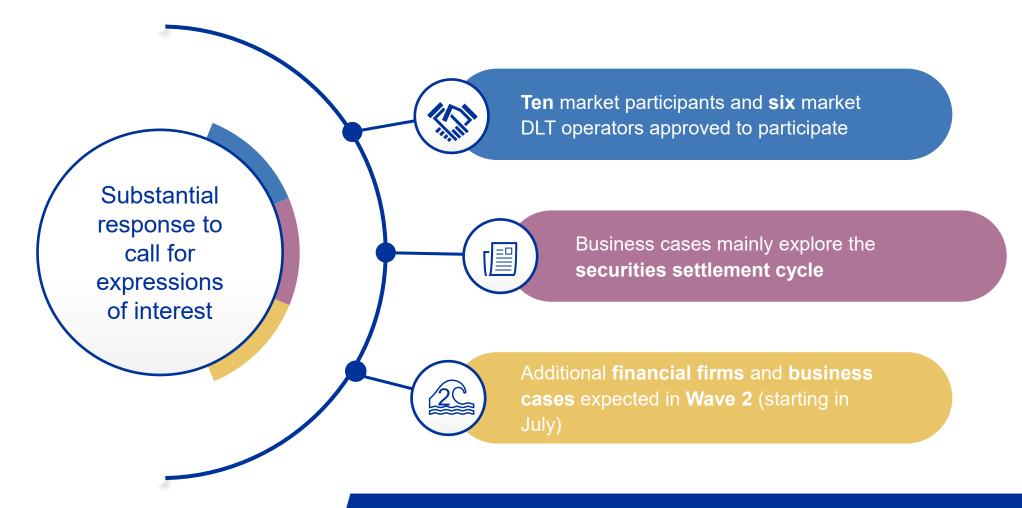
Practical work with market stakeholders planned from May to November 2024 focusing on interoperability solutions:

- 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

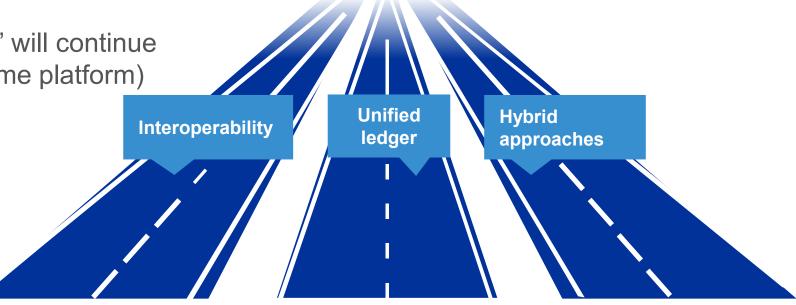


# Work on a longer-term vision

#### 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