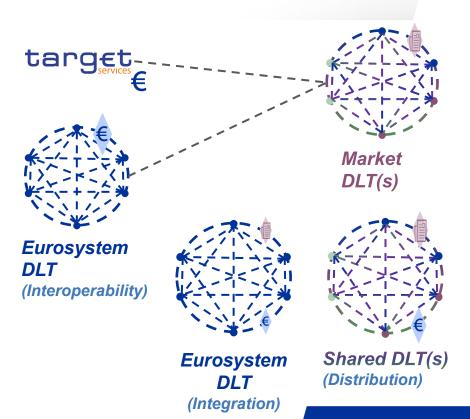


Update on the Eurosystem's exploratory work on new technologies for central bank money settlement of wholesale financial transactions

AMI-Pay

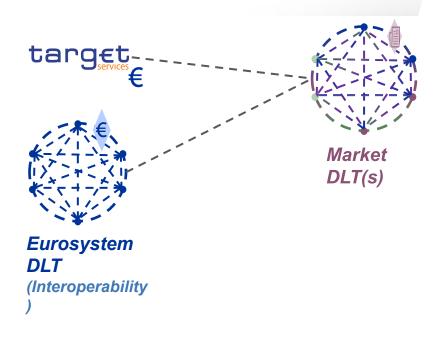


Recap: Options for settling in central bank money



- 1. CeBM settlement in current TARGET Services through adding a (A) *Trigger component to T2* or (B) *Bridge component to TIPS-like platform*
- 2. CeBM settlement on Eurosystem DLT interoperable with market DLTs (Interoperability)
- 3. CeBM and securities settlement on own Eurosystem DLT (T2S DLT) (Integration)
- 4. CeBM and securities settlement on DLTs shared between Eurosystem and other stakeholders (*Distribution*)

Recap: Options used in exploratory work



- 1. CeBM settlement in current TARGET Services through adding a (A) *Trigger component to T2* or (B) *Bridge component to TIPS-like platform*
- 2. CeBM settlement on Eurosystem DLT interoperable with market DLTs (Interoperability)

Recap: Solutions in scope for exploratory work

- ➤ Three solutions for CeBM settlement of DLT-based transactions provided by the Solution Providing Central Banks (SPCBs) for 6 months:
 - Trigger Solution by Deutsche Bundesbank (<u>link</u>)
 - TIPS Hash Link by Banca d'Italia (<u>link</u>)
 - Full-DLT Interoperability by Banque de France (<u>link</u>)
- Focus on a common conceptual "Interoperability approach" where CeBM and assets reside on distinct interconnected infrastructures while the analysis of further approaches (Integration/Distribution) progresses in parallel.

N.B. 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.

Recap: Eurosystem exploratory work with interoperability-type solutions

Eurosystem practical work between 13 May to 29 November 2024:

- Experiments: mock settlement of the cash and asset legs in test environments (specific dates and times)
- Trials: actual settlement of transactions in central bank money in limited setting for a limited period of time

The formal call for **expressions of interest** was published on <u>ECB's webpage</u> and <u>closed on 30 April:</u>

- Ten market participants (entities with access to TARGET) and six market DLT operators chosen for the start in May (wave 1 – <u>list available here</u>) and central banks also applied
- Even higher interest expressed for starting trials and experiments in July (wave 2 list in progress)

Eurosystem's exploratory work – timeline

December Public call for interest

Open to all market participants subject to eligibility and prioritisation

Public info session

General information and demos of the solutions

May Start of exploratory work -1st wave

Market participants and market DLT operators that have concluded the onboarding process by April start trials and experiments

Additional onboarding

window (2nd wave)

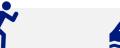
November end of exploratory work for both waves





Q4 2023

Q1 2024



Q2 2024

Q3 2024

Q4 2024

December to April Onboarding for wave 1

Deadlines to reply to the call for interest

End January (1st wave) and end April (2nd wave)

July Start of exploratory work - 2nd wave

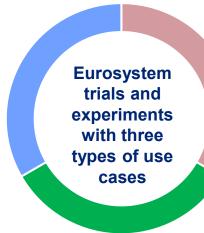
Proposed trials and experiments at a glance

Domestic payments use cases within the euro area

(experiments = mock settlement)

- ✓ E.g. automation of margin calls
- √ E.g. tokenised deposits / deposit tokens transfers
- ✓ E.g. automation of interbank settlement and reconciliation

Who: commercial banks, CCPs



Securities related use cases

(trials = real settlement
+ experiments = mock settlement)

- ✓ Issuance and distribution of securities natively on DLT (e.g. Commercial paper, bonds, tokenised funds)
- ✓ Secondary market transactions (1st exp already completed!)
- ✓ Securities lifecycle management: coupon payment, asset servicing, redemption
- √ Repo

Who: commercial banks, CSDs, CCPs, investors, issuers, trading venues

International use cases with other central banks

(experiments = mock settlement)

✓ PvP FX settlement

.. And in parallel with trials and experiments

Continued research into DLT and new technologies

✓ Impact of DLT, analysis of other solutions for CeBM settlement (DLT-Integration and DLT-Distribution)



Monitoring of ongoing initiatives and stakeholder engagement

- ✓ Dedicated Eurosystem Market Contact Group for new technologies and wholesale settlement: 60+ European and international market stakeholders
- ✓ Monitoring of other central bank / BIS initiatives

Eurosystem participation in other BIS-IH initiatives

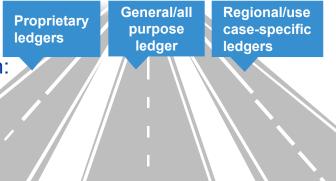
- ✓ Agorá
- ✓ Rialto (via Eurosystem centre)

Looking ahead: a single- or multi-ledger future?

- Uncertainty about future landscape for wholesale payments and securities settlement
- Single DLT platform could be useful to leverage advantages of new technologies and avoid fragmentation
- Challenge compared to multiple ledgers:
 - more difficult to realise and keep up to date
 - less likely to address specific needs
 - time to market

In any scenario, need to avoid (re-)fragmentation:

- Interoperability of DLT platforms is key requirement
- Common protocol and standardisation of concepts and data must be ensured



Further information

For more information, please visit the ECB's NTW contact group webpage

Latest publications of the ECB:

Economic Bulletin article: Central bank money settlement of wholesale transactions in the face of technological innovation

Payments news: First DLT-related experiment for settlement in central bank money successfully completed

Contact points:

Eurosystem Team: ntwCeBM@ecb.europa.eu

Solution provider central banks:

- ➤ Deutsche Bundesbank for the Trigger Solution: <u>triggersolution@bundesbank.de</u>
- ➤ Banca d'Italia for the TIPS Hash-Link: target.services@bancaditalia.it
- ➤ Banque de France for the Full-DLT Interoperability: monnaie-innovation@banque-france.fr