

The digital euro - a work in progress

ECB Civil Society
Seminar Series



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Agenda

- 1 Digital euro framework Purpose and timeline
- 2 Digital euro use cases
- 3 Design choices
- 4 Privacy options
- 5 Role of intermediaries
- 6 Ensuring usability of the digital euro a scheme approach
- 7 Financial inclusion
- 8 A digital euro for the future



What is the digital euro?

"The digital euro is a digital central bank liability for retail payments of citizens and businesses in the entire euro area"



Complementing, not substituting, cash and wholesale central bank deposits



Supervised intermediaries (e.g. banks and Payment service providers, PSPs) will facilitate the distribution of a digital euro



Digital euro as source of innovation and public good, shall not crowd out banks nor hinder innovation in payments

Where do we stand?

Tentative – timeline subject to change

July 2021

Governing Council decision to launch investigation phase

- Prioritisation of use cases
- Publication of report on focus groups with citizens and merchants

Focus on:

- Design options to control take-up
- Distribution model

Focus on:

- Compensation model
- Access to digital euro ecosystem
- Value added services
- Advanced functionalities
- Prototyping results

- Selection of service provider(s) for project realisation phase
- Preparation of decisionmaking document with advice on potential digital euro issuance, design and implementation





Q1-2022



Q2-2022



Q3-2022



Q4-2022





Q2-2023



Q3-2023

- Project team onboarding
- Governance set-up

Focus on:

- Online/offline availability
- Data privacy level
- Transfer mechanism

Focus on:

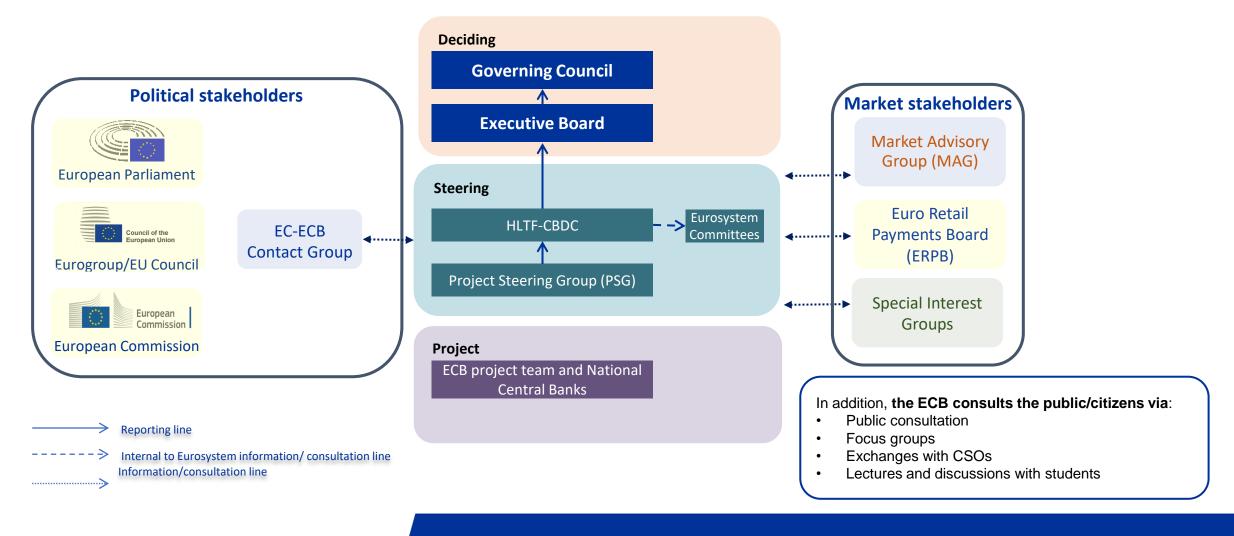
- Settlement model
- Amount in circulation
- Role of intermediaries
- Integration and form factor
- Prototype development

- Finalisation of user requirements
- Preparations for project realisation phase

September 2023
Governing Council decision to launch realisation phase

Digital Euro project governance & stakeholder management

Eurosystem governance structure & stakeholders

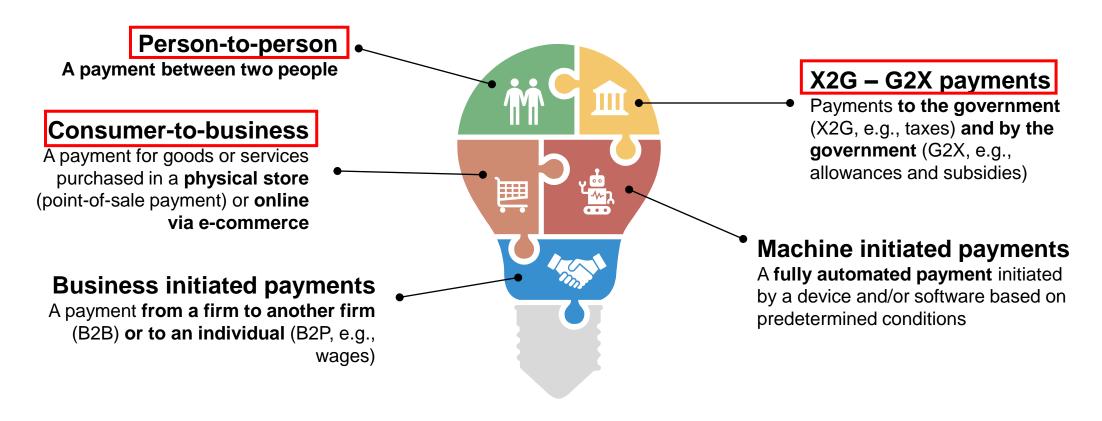




Digital euro use cases

Digital euro use cases

A digital euro use case describes a common payment scenario:





Design choices

ECB Governing Council approved foundational design choices* (1/2)

The use cases will rely on design features:

First set of design options
(Q3 2022)

Online/offline
Level of privacy
Tools to avoid excessive use
Transfer mechanism

See first progress report.

See second set (Q4 2022)

Role of intermediaries

Settlement model

Funding and defunding

Distribution model

See second progress report.

Third set (Q1 2023)

Compensation model

Core and value added services

Advanced functionalities

Delivery approach/form factor

ECB Governing Council approved foundational design choices* (2/2)

Online / Offline

Develop an offline peer-to-peer validated solution

Develop an online solution validated by a third-party

Exclude the development of an online peer-to-peer validated solution for the first releases (too experimental)

Privacy principles

General



- · Respect personal data
- Follow highest possible level of privacy

Intermediaries



- See transaction data needed for AML/CFT
- Excl. lower value payments from AML/CFT checks (→ co-legislator)
- Eurosystem



- Minimise dealing with personal data as much as possible
- Use privacyenhancing techniques

Tools to control amount in circulation

Holding limit options



- Digital euro holding limit with excess amount shifted to commercial bank account ("waterfall")
- Different limits for online and offline use
- Short deviations allowed

Remunerations



Two-tiered remuneration

- Step 1: 0% or positive
- Step 2: possibly negative



Privacy

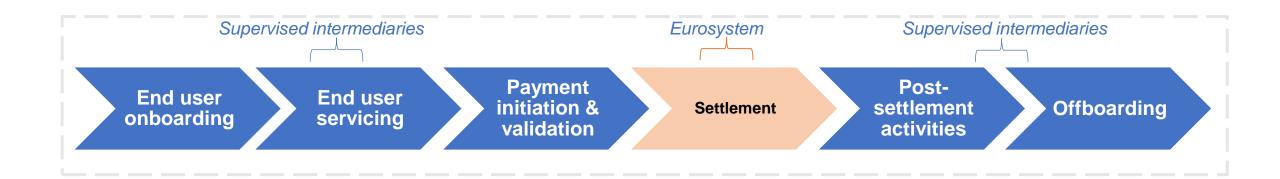
Privacy options

- Digital euro will ensure privacy by default and by design, giving people control over their personal data and money.
- Central bank will not have access to personal data (can't see people's holdings, transaction
 histories or payment patterns) but intermediaries in order to comply with regulatory requirements
 will have access to personal and transaction data. There will be a trade-off between privacy and
 some important public policy objectives such as AML, CFT or even tax evasion.
- Offline digital euro could provide a degree of privacy close to cash. Offline will potentially cater for the highest level of privacy (this relies on political decision). A risk-based approach could also allow for more privacy in the case of less risky / low value transactions.
- Digital euro design will comply with the conditions ultimately set for privacy by legislators.
- It remains important to notice that digital euro **won't be programmable money** (different from programable payments).



Role of intermediaries

Role of intermediaries in the digital euro ecosystem





Supervised **intermediaries will play a key role in distributing** the digital euro:

- Registering and managing digital euro end users, incl. opening digital euro account/wallets for end users.
- **Funding and defunding** of user's digital euro holdings, for both natural persons using digital euro as means of payment and business users accepting digital euro payments.
- Initiating, processing and managing of digital euro transactions, taking control of the transaction life cycle including fraud prevention.



Ensuring usability of the digital euro – a scheme approach

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The Eurosystem pursues a **payment scheme approach** to distribute digital euro

- Scheme would define a set of common rules, standards and procedures which would ensure pan euro area reach.
- Promote a harmonised end-user payment experience.

- Provides the flexibility to respond to user preferences and habits.
- Allows for the most degrees of freedom for the market to distribute the digital euro and develop innovative front-end solutions.



Scheme rulebook manager appointed on 1st December



Set-up of a group of public- and private-sector participants to draft a scheme rulebook to commence soon



Facilitating financial inclusion

A digital euro ...

- can improve access to digital financial services (because of digitized value chains), ...
- ... ensuring that everyone in the euro area can pay and get paid with digital euro,
- can enhance the efficiency of digital payments and offer low transaction costs,
- can be used offline when there is no internet coverage,
- can facilitate the enrolment and education (via simplified due diligence and electronic know your customer), and
- foster interoperability (both domestically and cross-border) and facilitate a homogeneous end-user experience.





A digital euro for the future

The digital euro – a work in progress



- People's payment behaviour is changing, and we continue to see a downwards trend in cash usage in the euro area. A digital euro would then enhance digital progress and integration in Europe.
- Since the introduction of the euro, the ECB has been responsible for preserving citizens' trust in our currency.
- A digital euro would be accessible to all and offer people greater choice in how they pay.