

Shaping the digital euro

Civil Society Seminar Series



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Agenda

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2	Product features/design: potential use cases
3	Privacy
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5	Technological considerations
6	Financial inclusion
7	Comparison with crypto assets



Why issue a digital euro?

Majority of central banks are working on CBDC

- Nine out of ten central banks are exploring CBDCs,
- More than half of the central banks develop CBDC or run concrete experiments,
- More than two thirds of central banks consider it likely or might possibly issue a retail CBDC in short or medium term.

Reasons behind the increased work on CBDC



The emergence of cryptocurrencies and the Covid-19 pandemic accelerated the work on CBDCs. In the advanced economics, financial stability has increased in importance as a motivation for central banks to get involved in CBDCs. CBDCs could alleviate limited operating hours of current payment systems and the length of current transaction chains according to central banks.

Source: 2021 BIS survey on central bank digital currencies (2022) of 81 central banks.

Why issue a digital euro?



The digital euro as **monetary anchor** would preserve public access to central bank money being **widely accessible to prospective users in all euro area countries**



A digital euro would defend the **strategic autonomy** by of the euro area by increasing the independence from non-European payment solutions and would increase **economic efficiency** as the (latent) competition from central bank money to private money providers can curb market-abusive behaviour.

Definition and scope

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

Timeline – a long and winding road

Tentative - subject to change



Digital Euro project governance & stakeholder management

Eurosystem governance structure & stakeholders





Product features/design: potential use cases

Product features/design: Digital euro use cases

A digital euro use case describes a common payment scenario

- **Person-to-person** (P2P): a payment between two individuals
- **Consumer-to-business:** a payment for goods or services purchased in a **physical store** (point-of-sale payment) or online via **e-commerce**
- **Business initiated payments**: a payment from a firm to another firm (B2B) or to an individual (B2P, e.g., wages)
- Payments to the government (X2G, e.g., taxes) and by the government (G2X, e.g., allowances and subsidies)
- Machine-initiated (M2X): a fully automated payment initiated by a device and/or software based on predetermined conditions.





Privacy options (from user perspective)

identity of users is unknown when they access services; no KYC during onboarding.

Anonymity

Non-transparent to third party

KYC during onboarding; holdings/balances and transaction amounts are not known to intermediary and central bank

Transparent to intermediary

KYC during onboarding;

transaction data and users' profiling data transparent to intermediary for AML/CFT purposes

Selective privacy

KYC during onboarding; higher degree of privacy for lowvalue transactions; large-value transactions are subject to standard CDD checks

Fully transparent to central bank

KYC during onboarding all transaction data and users' profiling data fully transparent to central bank

Privacy options (from user perspective)





Interaction with stakeholders

Stakeholder engagement

Engagement with stakeholders to facilitate the appropriate specification and implementation of a digital euro:

Digital Euro Market Advisory Group (MAG)	 A market practitioner group Established by the Eurosystem Aims to take account of the views of prospective distributors of a digital euro Attempts to tap market intelligence and professional expertise in the design stage The MAG will provide input on a strategic level for the product design and distribution
The Euro Retail Payments Board (ERPB)	 Forum for institutional dialogue on retail payments Will provide a broad assessment on digital euro design and distribution Both from the demand and supply sides of the retail payments ecosystem The ERPB will assess the preliminary design decisions from an industry perspective
The European Parliament and European Commission	 Close coordination with the Eurosystem on design and business model decisions. The European institutions will also provide assessment on the design decisions
ECB Civil Society Seminars	Seminars where ECB experts present the work and exchange views with representatives from European civil society organisations

Focus groups

Objectives	 Understand current payment habits of citizens of euro area Member States and their attitudes towards digital payment methods. User perspective on new digital payment methods and potential key features which could drive the adoption of a new digital payment means with a view to further informing the digital euro investigation phase. User habits and perspectives on digital payment means.
Preferred features identified	 Universal acceptance across the euro area Instant, contactless and open person-to-person payments One-stop-solution Easy to use, cost efficient, secure, reliable and fast
Remaining challenges	 Doubts about necessity for new and reluctance to adopt additional means of payment Costumer demand – main driver for merchants Strong attachment to cash among unbanked



Technological considerations

Key learnings from experiments: no major technology restrictions; various design options possible



- Up to 40k tx/sec
- Low environmental
 impact for settlement
- Possible to design multi-ledger ("how")
- Offline is feasible, needs online synchronisation

Privacy and AML

- Several privacy
 options
- Higher privacy if combined, but may raise AML concerns
- Offline untraceability and/or ex-post traceability possible



Limits in circulation

- Possible to set limits on balances and
 - transaction amount
- Transfer of excess
 amounts are feasible
- Remuneration is
 technically possible



End user access

- Several solutions;
 existing infrastructure
 and technology can be
 reused
- Possible for centralised and decentralised e-ID



Financial inclusion

Facilitating financial inclusion

A digital euro

- can improve access to digital financial services (because of digitized value chains),
- 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 crossborder)





Comparison with crypto assets

What is digital money?







Liability of central bank

- i. Cash: physical form, to general public
- ii. Central bank deposits:
 - digital form, limited access
- iii. CBDC/digital euro:

<u>Complement to cash and</u> <u>Central Bank deposits</u>

Liability of a private entity

- i. Commercial bank money
- ii. E-money
- iii. Some 'stablecoins' that entail a claim/liability on an identifiable entity

Not a liability

i. Crypto-assets

A digital euro for the future



- A digital euro would be a digital symbol of 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.



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