

Digital euro – use case analysis

Market Advisory Group



Digital euro project timeline

Use case prioritisation
Report on focus groups with
citizens and merchants

Design options to moderate take-up Distribution model

Compensation model Access to ecosystem Value added services Advanced functionalities

Prototyping results

Selection of service provider(s) for possible project realization phase

Decision making document including advice on potential issuance digital euro, its design and implementation plan



July 2021

Governing Council decision to launch investigation phase





Q4-2021

Q1-2022

Q2-202

Q3-202

Q4-2022

Q1-2023

Q2-2023

Q3-2023

September 2023
Governing Council
decision to possibly

launch realisation phase

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Project team on-boarding Governance set-up



On-line/off-line availability
Data privacy level
Transfer mechanism



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



User requirements

Preparation for possible project realisation phase decision making

Tentative - timing subject to change

Use cases for a digital euro

A digital euro use case describes a payment scenario, covering transacting parties (i.e. persons, businesses, government agencies and machines) as well as the environment (i.e. physical or virtual environment) in which it takes place.



Use cases have features, like

- Privacy
- Offline
- Programmability
- Cross-border

Multiple use cases could have common features

Use cases for a digital euro

- Person-to-person: a payment between two individuals
- Consumer-to-business: a payment for goods or services purchased in a physical store or online via e-commerce
- Business-initiated: a payment between two businesses or from a business to an individual (e.g. wages)
- Payments to the government (e.g. taxes) and by the government (e.g. allowances and subsidies)
- Machine-initiated: a fully automated payment initiated by a device and/or software based on predefined conditions

Strategic importance of use cases

Two key prioritisation criteria:

- 1. Does the use case support the **policy objective of a digital euro**?
- 2. Does the use case target an **relevant market segment** that can support network effects?

These dimensions are further elaborated on the next slides

Importance for the policy objective (criterion 1)



Maintain *public access* to and *full usability* of <u>central bank</u> money in a world in which consumers and firms are turning to electronic payments

- Supporting digitalisation of the European economy
- Responding to a decline in the use of cash as a means of payment
- Tackling sovereignty concerns relating to foreign CBDC or private digital means of payment in the euro area

Importance for the policy objective (criterion 1)



Order based on strategic importance for achieving the policy objective

- Non-European solutions dominate digital payments in e-commerce and physical stores
- Cash dominant for person-to-person payments, but segment open to disruption and strategically important to drive adoption and foster network effects
- European solutions available for business-initiated payments
- Machine-initiated payments could support innovation, but private sector also likely to develop solutions

Importance of the market segment (criterion 2)



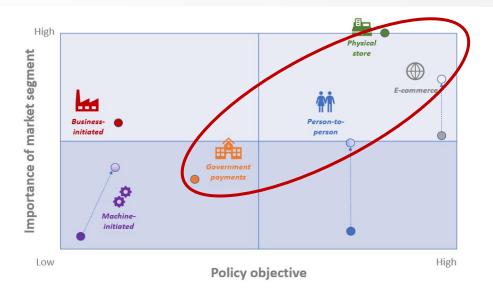
Order based on annual number of transactions conducted using a digital means of payment

Some important developments to consider:

- Strong growth of e-commerce as a percentage of total retail sales
- Digital payments between individuals (person-to-person) still limited, but preferences could change as more digital solutions become available

Sources for data on transactions: BCG (2021), BigCommerce (2021), De Nederlandsche Bank (2020), ECB (2020), eMarketer (2021), Eurostat (2022), McKinsey (2021), Oliver Wyman (2021), Sveriges Riksbank (2020), SWIFT (2018) and ECB staff calculations.

Prioritisation of use cases



Bringing the two criteria together, payments in e-commerce and physical stores together with person-to-person payments seem natural candidates for the first releases of a digital euro: they rank high on both dimensions, especially if we take expected developments into account [see upper right quadrant]. Making the digital euro available for physical store and e-commerce would also allow it to be used for government payments.

Focusing on these payment segments first does not mean we close the door to new trends and emerging needs. With this prioritization exercise, we set ourselves the <u>objective</u> to cover the priority use cases within the first releases of a digital euro. We will assess the <u>actual feasibility</u> of doing so and define a more precise release planning later on, as our investigation progresses.

Questions (I)

- 1. What are the markets' expectations regarding the future evolution of the different use cases (in terms of growing transaction volume and value)? and specifically:
 - What are the markets' views regarding:
 - > The substitution of cash by digital payments in the physical environment (both POS and P2P)?
 - What private sector initiatives are currently taking regarding (i) programmable; (ii) machine-triggered; (iii) IoT related; (iv) micro- payments? What are the impediments (legal, technical, lack of demand, etc.) and how do you see these use cases evolving? What could be the arguments to have the digital euro playing a pioneering role (if any) in these? Please distinguish (i)-(iv) as relevant.
 - The future evolution of business-to-business and business-to-consumer transactions (in terms of growing transaction volume and value)?
 - What differences in rate of adoption of digital payments over all use cases are being observed across the different countries in the euro area?

Questions (II)

- 2. Considering the Eurosystem's preference to distribute a digital euro via supervised intermediaries, what are the market's views on how addressing the prioritised use cases will influence the strategic autonomy (i.e. tackling sovereignty challenges)?
- 3. Do market participants identify other emerging market segments or use cases not covered currently in the strategic prioritisation matrix?
- 4. Do market participants members wish to share other comments and/or insights related to the presented analysis?

Thank you for your attention

References

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