

Update on digital euro





Preparing our currency for the future

Investigation phase

Oct. 2021 - Oct. 2023

Concept definition, technical exploration and design proposal

Preparation phase

Nov. 2023 - Oct. 2025

Main expected next steps:

- Finalise the scheme rulebook
- Select service providers
- Learn through **experimentation**
- Deeper dive into technical aspects, including further research into offline functions and developing a testing and rollout plan for the future

Next phase

From Nov. 2025

Potentially developing and rolling out digital euro use cases

A decision to issue a digital euro will only be considered by the ECB once the European Union's legislative process has been completed

Key achievements in relation to the phase milestones



Sourcing of providers

- Publication of procurement documentation on 31 July
- Offers received and preparing evaluations





- Initiation of fieldwork on User Research
- Workshop on business-to-business payments
- Preparing for technical exploration of use of Conditional Payments



Preparation of the rulebook

- Launch of additional rulebook workstreams
- Assessment of feedback from consultation
- Publication of report on work of rulebook

Conducting further analysis



- Further **analysis** and **refinement** of documentation
- Methodology for calibration of holding limits
- Work on fit of the digital euro in the ecosystem



Supported by:

- Extensive engagement with co-legislators and with market stakeholders
- Public communication efforts aimed at raising awareness



Preparation of the rulebook

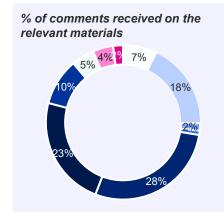


Essential for **harmonisation of digital euro payments**

sufficiently flexible to accommodate any future adjustments deriving from digital euro legislative process

Market stakeholders Institutional stakeholders Consumers, retailers. intermediaries ္ရွိ ဝိ႐ို

In Q1 2024 the Rulebook Development Group (RDG) reviewed intermediate draft of rulebook in its entirety; all comments were assessed and will be addressed



| Rulebook section | # of comments |
|-------------------------------------|---------------|
| 1. Document information | 10 |
| 2. Scope and interplay | 140 |
| 3. Functional and operational model | |
| Business rules | 375 |
| Identification and authentication | 32 |
| Dispute management | 19 |
| Annex A1 user journeys | 588 |
| Annex A2 E2E flows | 484 |
| Business rules x flows mapping | 205 |
| 4. Adherence model | 100 |
| 5. Technical scheme requirements | 89 |
| 8. Defined terms and abbreviations | 43 |
| Total | 2295 |
| | |

The rulebook's envisaged list of content to provide requirements and specifications

Envisaged table of content of draft rulebook



Draft digital euro rulebook

[1st intermediate draft]

- Document information
- Digital euro scheme scope and interplay
- Functional and operational model
 - High-level E2E flows
 - Identification and authentication
 - Dispute management principles
- · Adherence model
- · Technical scheme requirements
- · Defined terms and conditions
- Annexes
 - User journeys
 - Detailed end-to-end flows
 - FAQ



[2nd draft]

- Document information
- Digital euro scheme scope and interplay
- · Functional and operational model
 - High-level E2E flows
 - Identification and authentication
 - Dispute management principles
 - Minimum UX standards
- · Adherence model
- · Technical scheme requirements
 - Interface standards and specifications
- Risk management
- Scheme management
- Defined terms and conditions
- Annexes
 - Illustrative User journeys, detailed E2E flows, Branding standards, scheme compatibility and interoperability
 - Detailed technical specifications, implementation guidelines, certification-related documentation
 - FAQ





Fit in the Ecosystem workstream

Engagement with all stakeholders ensures diverse needs are catered for

Extensive engagement on design decisions in the ERPB over the past years paves the way for further deep-dives:



Payment Service Providers Deep-dive already started

- + Enhance competitiveness vis-à-vis global competitors
- + Pan-European merchant reach across use cases through open digital euro standards



Merchants

Deep-dive targeted for H1 2025

- + Increased access to European consumers base
- + Efficient, instant-settlement alternative to dominant solutions
- + Safeguards for setting of merchant fees



Consumers

Deep-dive targeted for H1 2025



- + Ultimate beneficiary of increased competition in payments
- + Access to public money in digital age
- + High privacy option for everyday payments

European policymakers



- + Monetary sovereignty
- + Strategic autonomy
- + Enhanced resilience

Balancing the digital euro value proposition and the enabling of private payment solutions



Digital euro project made conscious choices to support European payment service providers:

- Distribution through EU licensed PSPs, with only settlement done by central bank
- Compensation model that allows for both merchantand interchange fees (up to EU legislator)
- Safeguards to limit attractiveness as means of investment
- Pan-European payment rails for private solutions via open digital euro standards
- Platform for innovation and value-added services based on Eurosystem-supported auxiliary services

A deep-dive into payment service providers' concerns can help unlock the full benefits of a digital euro

Engagement with a focus on two main concerns of payment service providers



Impact on bank intermediation*



Revenues and costs of implementation



Interaction with other market players

The engagement has kicked off with the competition theme

Competition

First discussion: Q4 2024 - Q1 2025

Impacting PSPs' bargaining power

Impacting PSPs' competitiveness

Co-existence

Synergies

Second discussion: Q4 2024 - Q1 2025 Synergies in the front-end

Synergies in the back-end

Business model

Third discussion: Q1 2025 - Q2 2025

Compensation*

Implementation cost

Operating cost

^{*} Subject to legislation



Update on work on methodology for holding limit calibration

The Eurosystem workstream on the methodology for the calibration of the holding limit

The individual holding limit is a **key - though not the only - design feature** to mitigate the digital euro's impact on bank intermediation.



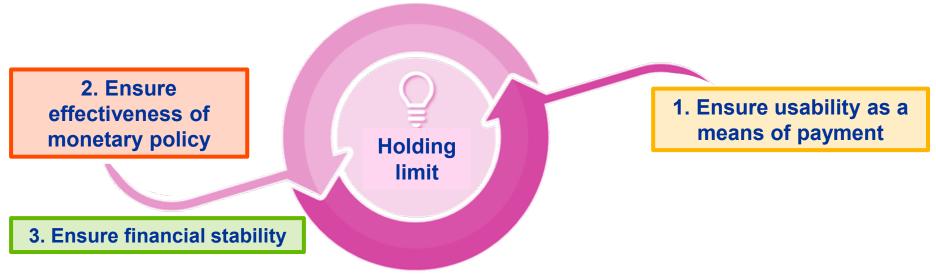
Workstream's objective for this phase: developing a methodology which would be necessary for calibrating the individual holding limit.

It also aims to

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- > Build the **necessary expertise** to for a complex technical exercise.
- facilitate open and factual discussion on all relevant factors based on methodological considerations and granular data;
- increase predictability regarding potential individual holding limits ahead of the potential launch.

Our framework of analysis

Framework based on the objectives set out in Article 15.1 of the draft digital euro regulation



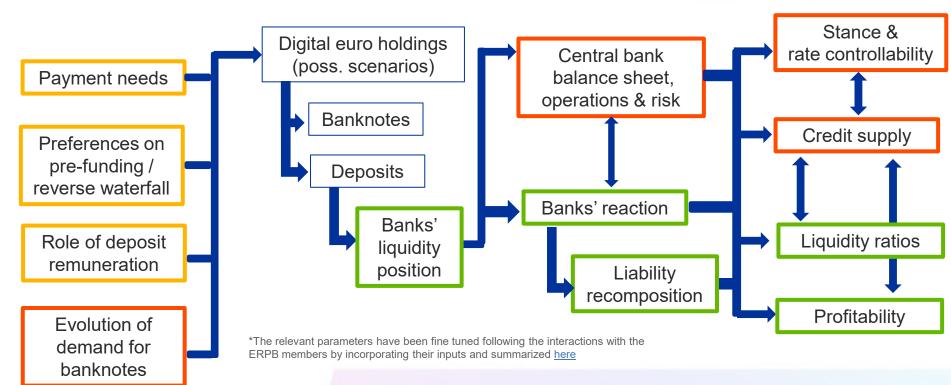
Individual holding limits should be established taking into account the **public good nature** of the digital euro and **proportionality principle**: restrictions should be necessary, appropriate and the least intrusive to maintain financial stability and support the effectiveness of monetary policy

Block 1: Usability

Block 2: Monetary policy

Relevant parameters for the calibration of the holding limit*

Block 3: Fin. stability & banking supervision



Methodology for the calibration of the holding limit - Interaction with market stakeholders in 2024





We continue to engage with market participants on a technical level



On 31 October, we published a *Call for expression of interest* to attract market participants to join an open and transparent experimentation exercise.

Interested parties can apply until the 29th November.

One engagement serving three goals



First, enable:

• an engagement without entry-barriers by providing technical infrastructure for participants to innovate on. Anybody who wants to work with us, will be able to do so.



Second, explore:

• Better understand what's required for the use case Conditional Payments



Third, listen:

• Tap specialised and interdisciplinary knowledge (i.e. also involving academia and diverse market participants) and receive independent feedback on the digital euro's potential

One engagement split in two workstreams



Main scope: Pioneers

- Facilitate technical testing against digital euro infrastructure and prove implementation of conditional payments
- Open participation (minimum selection against potentially harmful applications)
- Open collaboration (onboarding package, technical support, no direct/weekly interactions, participants remain owners of created IP and may be allowed to communicate on their contribution)
- · On-site event at the ECB
- To be summarised in a report to be published by the ECB



Secondary scope: Visionaries

- Conceptual work to explore e.g. innovative use cases (e.g. also covering B2B payments), community impact and societal considerations involving multiple stakeholders with different backgrounds
- All entries will be assessed whereas the most interesting, innovative and coherent visions will be invited
- One-off half day workshops to promote the most original ideas
- On-site event at the ECB
- To be summarised in a report to be published by the ECB

Thank you!