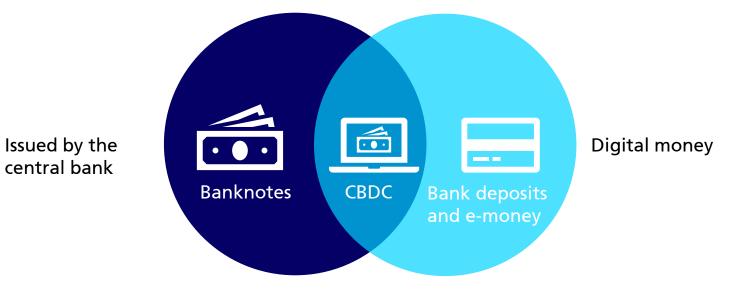


Digital Euro Update

Current progress & future work

Lars Hupel TUM Blockchain Salon 2024-05-17

Central Bank Digital Currency





The move towards CBDC is gaining momentum

90%

of central banks worldwide are actively engaged in CBDC work

62% are experimenting with design and technology

26% are deploying pilot projects

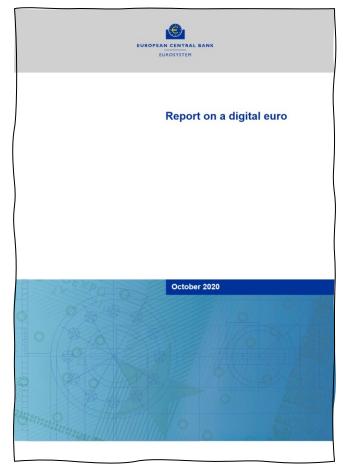
Around 70% of Central Banks worldwide say that they are likely to introduce a CBDC



Digital Euro overview



- 1 Central bank liability in digital form
- Use by citizens and businesses
- Focused on retail payment needs
- Complements cash & deposit money





Timeline





Legal framework

- currently under consideration by the European Parliament
- required to establish and fully implement a Digital Euro
- essential elements of the regulation:
 - privacy
 - holding limit
 - compensation model
 - legal tender
 - multiple accounts per person

• ...



https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52023PC0369





Wallets & Ecosystem



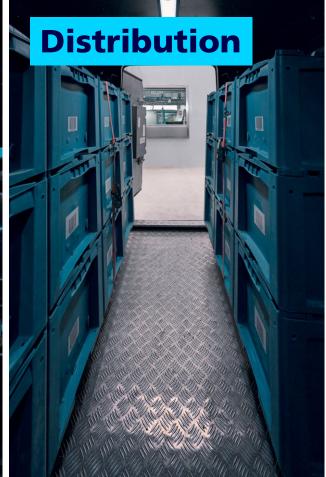
"Currency cannot be private, money is a public good of sovereignty"

François Villeroy de Galhau







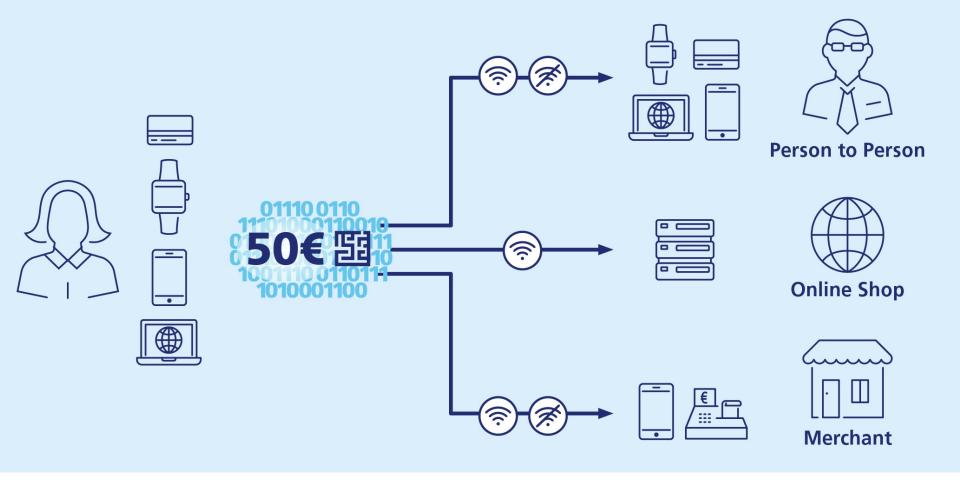






- 1 ECB will not deal with users directly
- Digital Euro will not be programmable
- Legal tender without interest
- Payments can be conducted offline





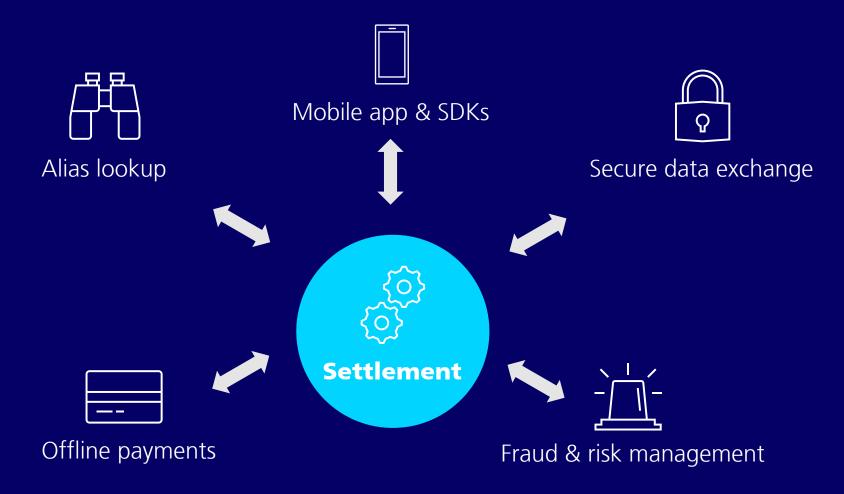
Where is the money?

Custodial wallet

Bearer wallet







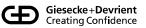




Offline capabilities

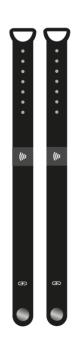






Wallet form factors

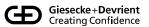












Current payment solutions

Digital Euro capability

No Internet

Neither Internet nor mobile connectivity

Only one party (payer or payee) is offline

Both parties are offline

One-time offline transaction

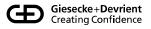
Consecutive offline transactions

Offline payments at POS of merchants

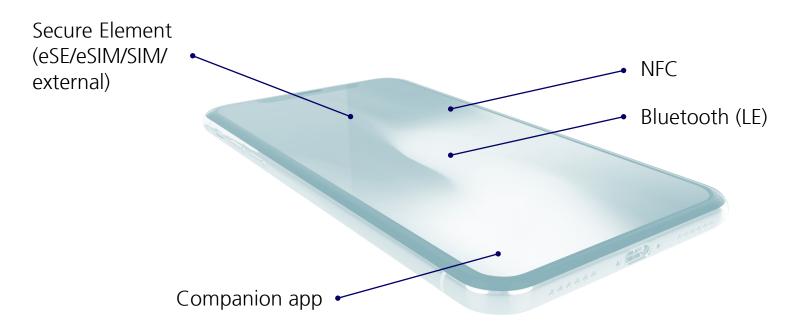
Both POS and person-to-person payments

Payments is settled online

Instant settlement (re-spendable)



Hardware wallet requirements





Questions? Answers!

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Sources

• François Villeroy de Galhau: Denis Morin, CC-BY-SA 4.0

