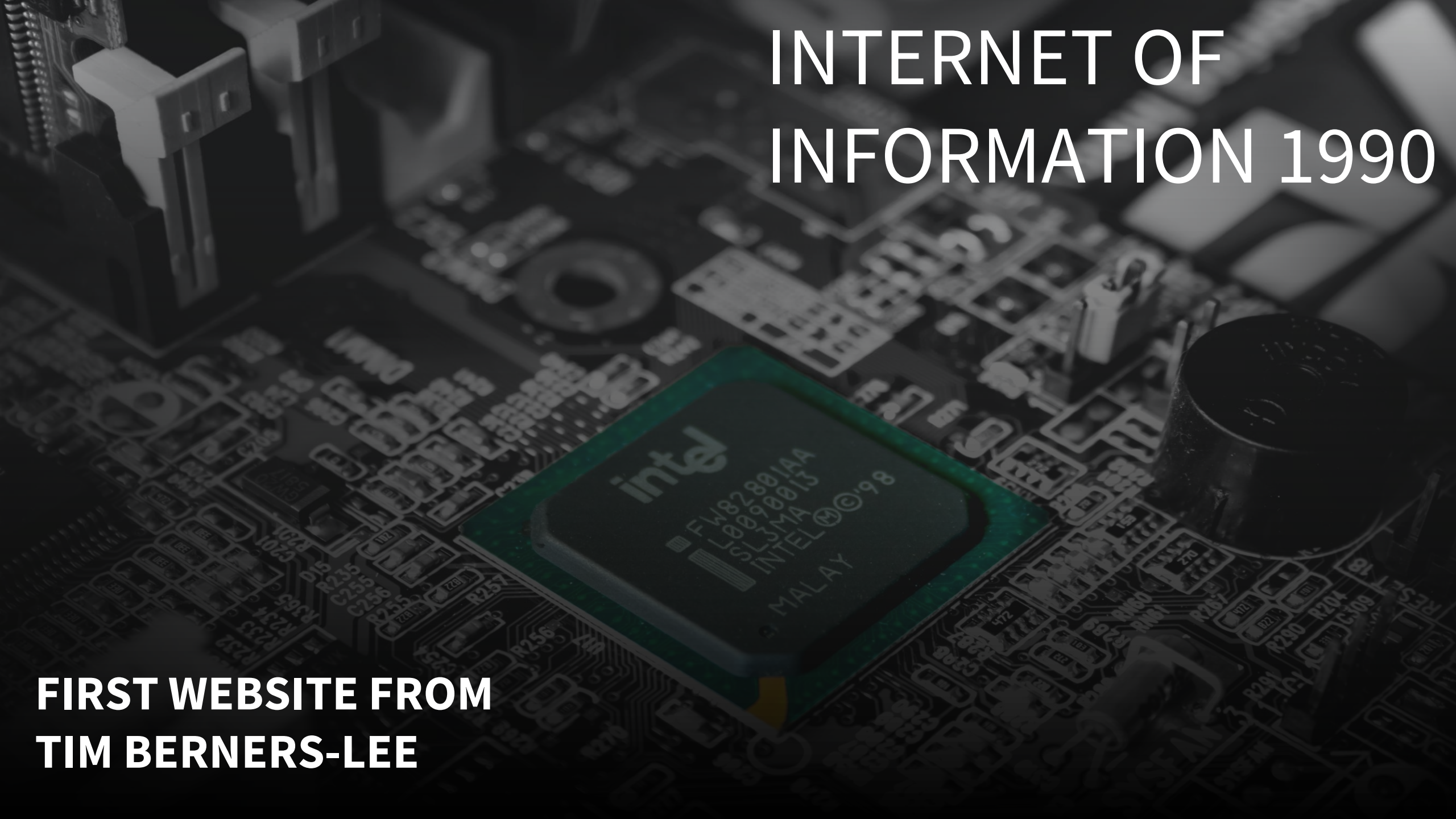
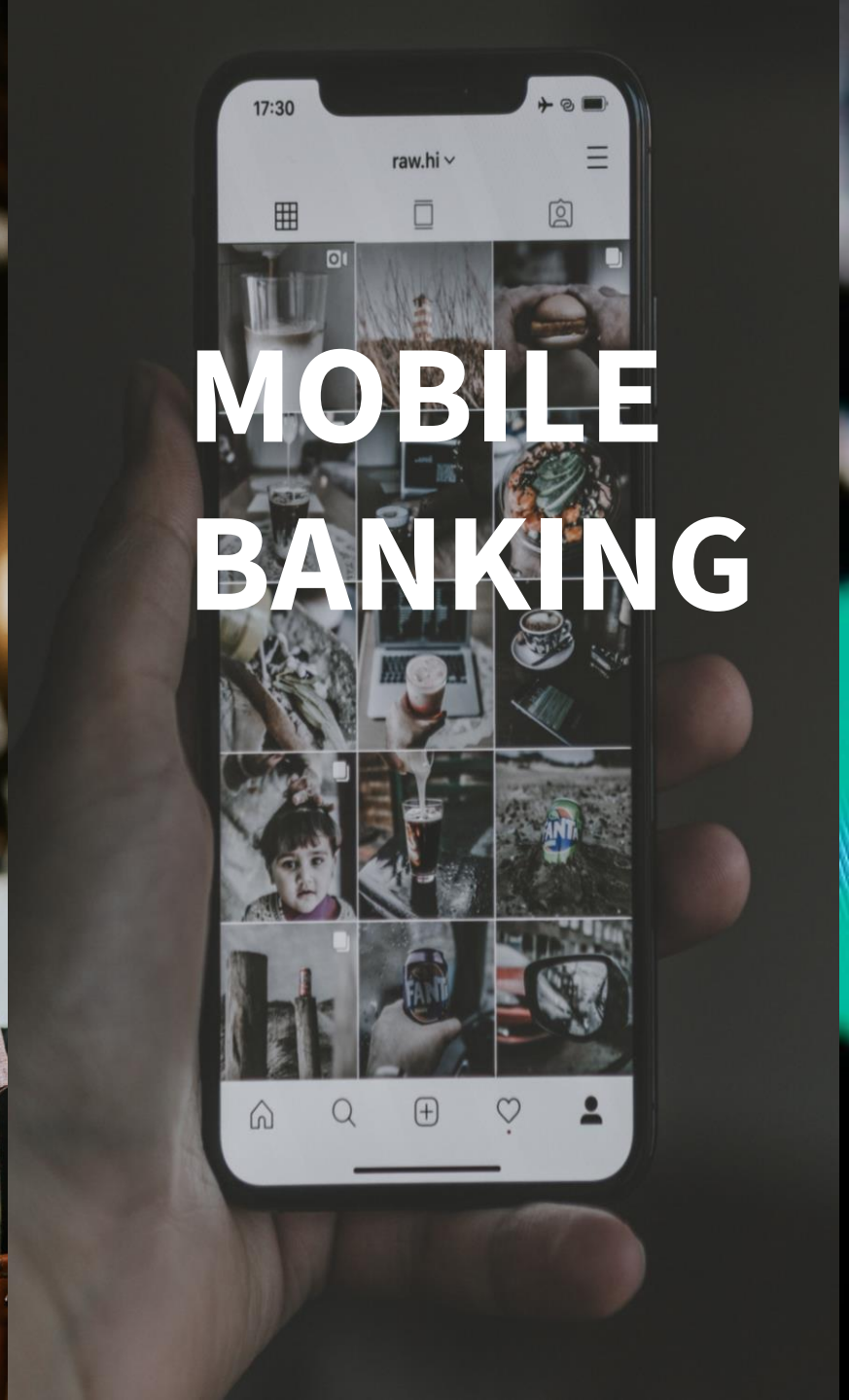
CashOnLedger

FUNCTION OF MONEY

FORMS OF MONEY


INTERNET OF INFORMATION 1990
FIRST WEBSITE FROM TIM BERNERS-LEE

ONLINE
BANKING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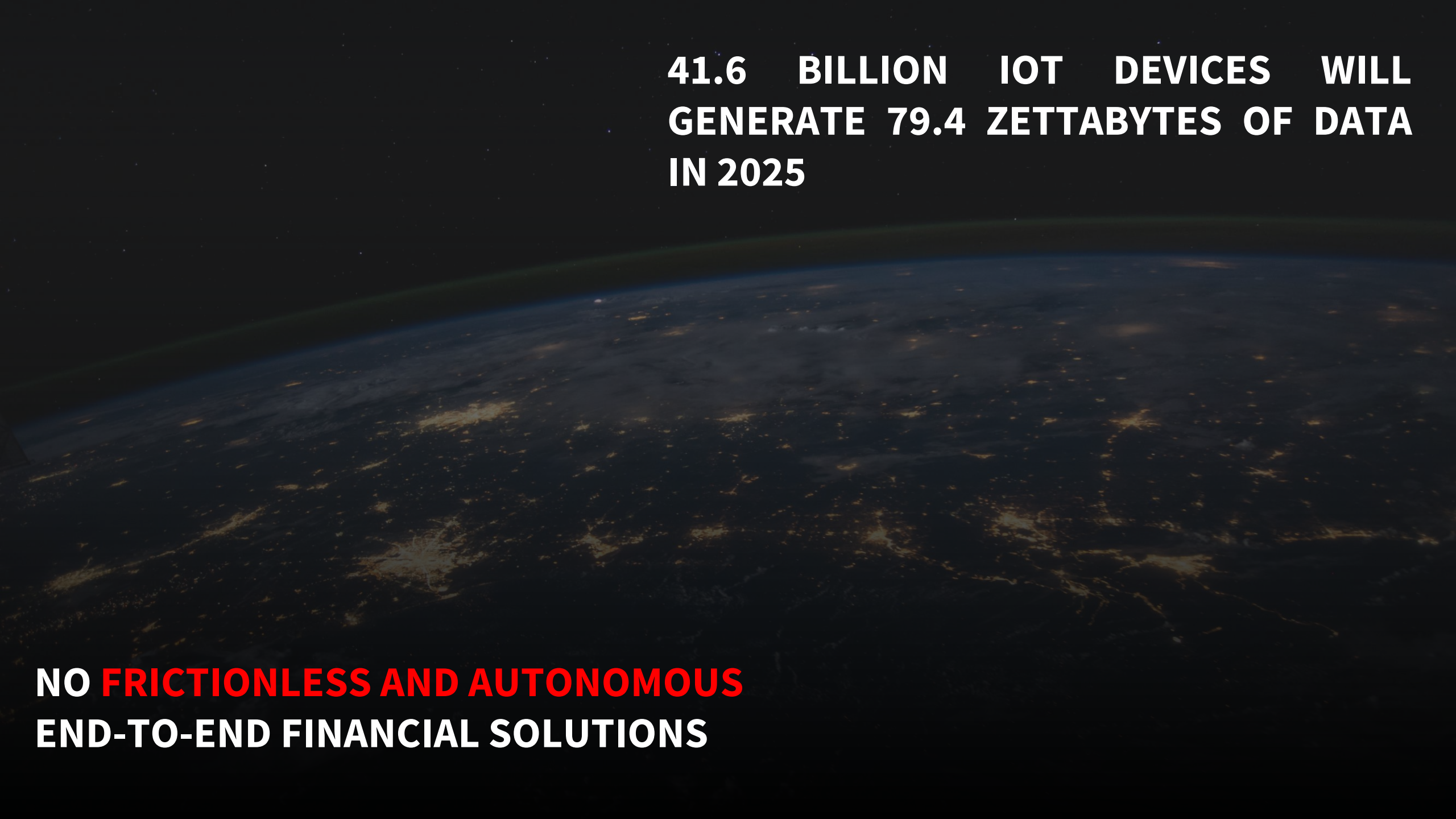
MOBILE
BANKING

DIRECT
BANKING
N26
N26

SUCCESS OF

BASED ON ONLINE BANKING


41.6 BILLION IOT DEVICES WILL GENERATE 79.4 ZETTABYTES OF DATA IN 2025
NO FRICTIONLESS AND AUTONOMOUS
END-TO-END FINANCIAL SOLUTIONS

INTERNET OF VALUE
2009

NEW VALUE TRANSFER SYSTEM CALLED
THE BLOCKCHAIN

HIGH VOLATILITY

NO CURRENCY & NO RISK FOR CENTRAL BANKS

POTENTIAL CURRENCY & HUGE RISK FOR CENTRAL BANKS

diem
diem

CONNECTED INDUSTRY ≠ FINANCIAL SERVICES

NO
AUTOMATION
WITHOUT THE
DIGITAL EURO

01
CENTRAL BANK DIGITAL CURRENCY
02
PROGRAMMABLE COMMERCIAL MONEY
03
CRYPTO STABLECOINS

PAY-PER-USE: FINANCIAL FLEXIBILITY FOR SMES

GROWTH WITHOUT OVER-LEVERAGING THE BUSINESS

Clients
High Demand for
OPEX models

OEMs
Limitation by CAPEX
increases financing need

Investors
Missing asset
lifecycle transparency

Legacy system
limitations

Increased back office
complexity and costs

Manual payments
lead to high costs

THE IOT PAYMENT INFRASTRUCTURE FOR DIGITAL BUSINESS

COL OPERATOR

Modul 1:
Data Connector

Modul 2:
Data Lake

Modul 3:
Business Orchestrator

Modul 4:
Workflow & Analytics

- Invoicing & Billing
- ERP Integration
- Asset Life Cycle Management
- Business Analytics
- DLT Integration
- Dashboards
- Business AI

COL PAYMENT

Programmable Payments in cooperation with LBBW

- Multiparty payment orchestration
- Seamless system integration
- Automated transaction settlement

Various payment methods are possible

- SCT Inst Credit Transfer
- SEPA transfers
- Credit Card
- ...

LBBW Infineon R+V

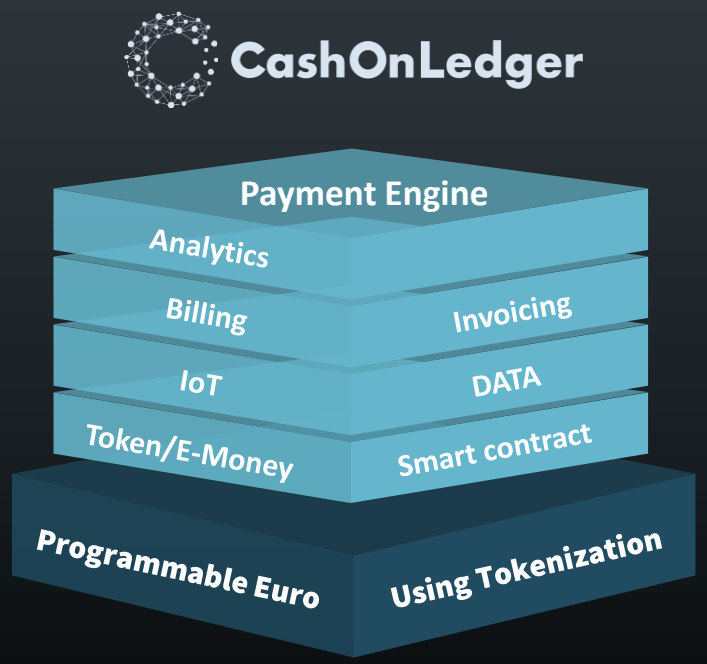
CashOnLedger's Payment Engine combined with Payment Adapter offers a fully automated and compliant payment solution!

Machine data extraction

CashOnLedger works with leading semiconductors and startups to extract data from the machines. Hence necessary information can be gathered.

Automated Billing

Based on the machine data, an algorithm is triggered which calculates the depreciation of the asset and generates the invoice for the client in leading ERP systems (SAP, Oracle, etc.)



Insurance

IoT devices, unchangeable data and smart contracts have an impact on the development of risk assessments. Insurers can rely upon secure data to create individual insurance packages.

Automated Payment

Being connected to bank accounts and having created the programmable EUR, CashOnLedger also triggers the automated settlement process to reduce manual accounting efforts

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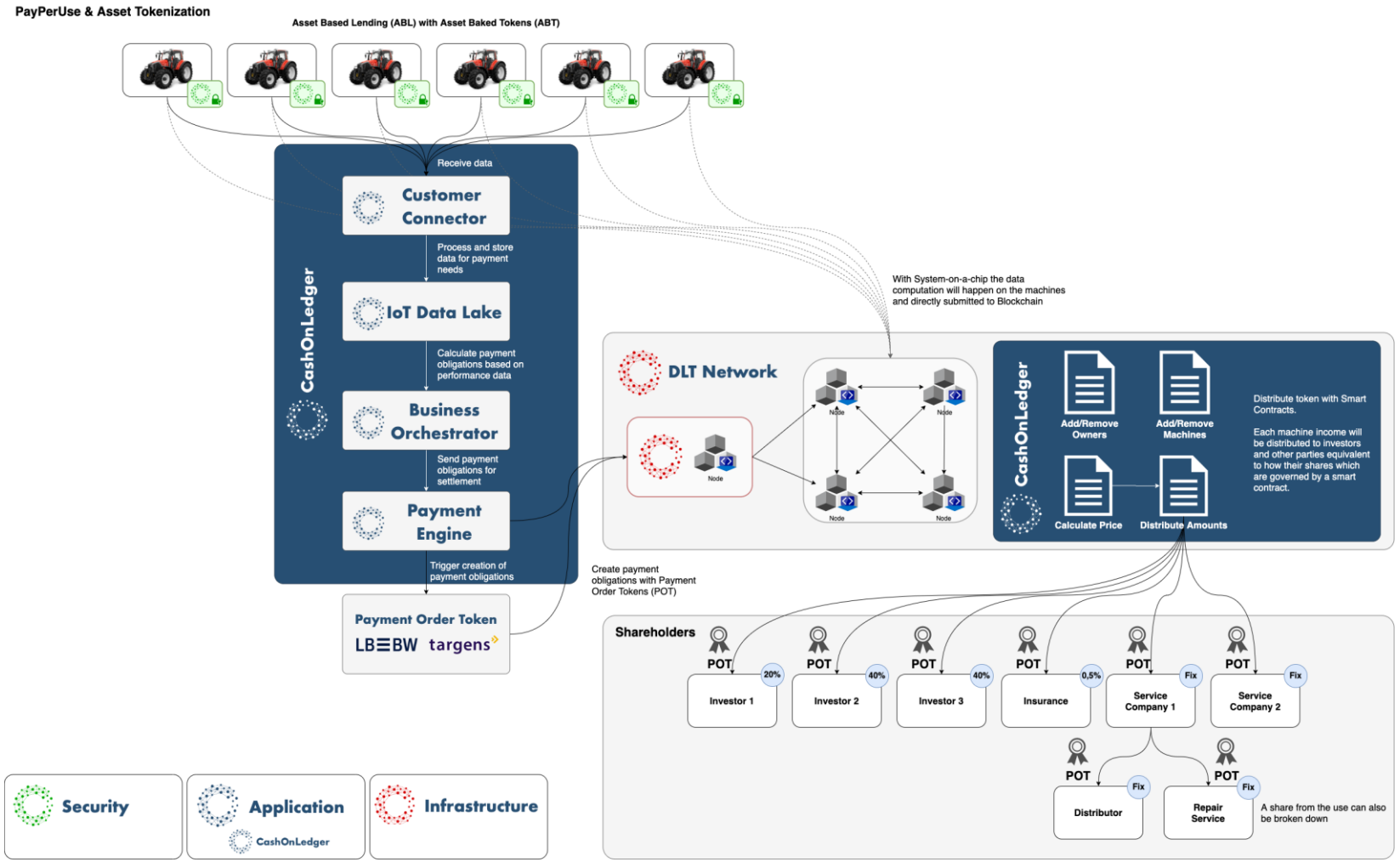
MULTIPARTY BUSINESS ORCHESTRATION IS NECESSARY



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Differentiation between programmable payment & money

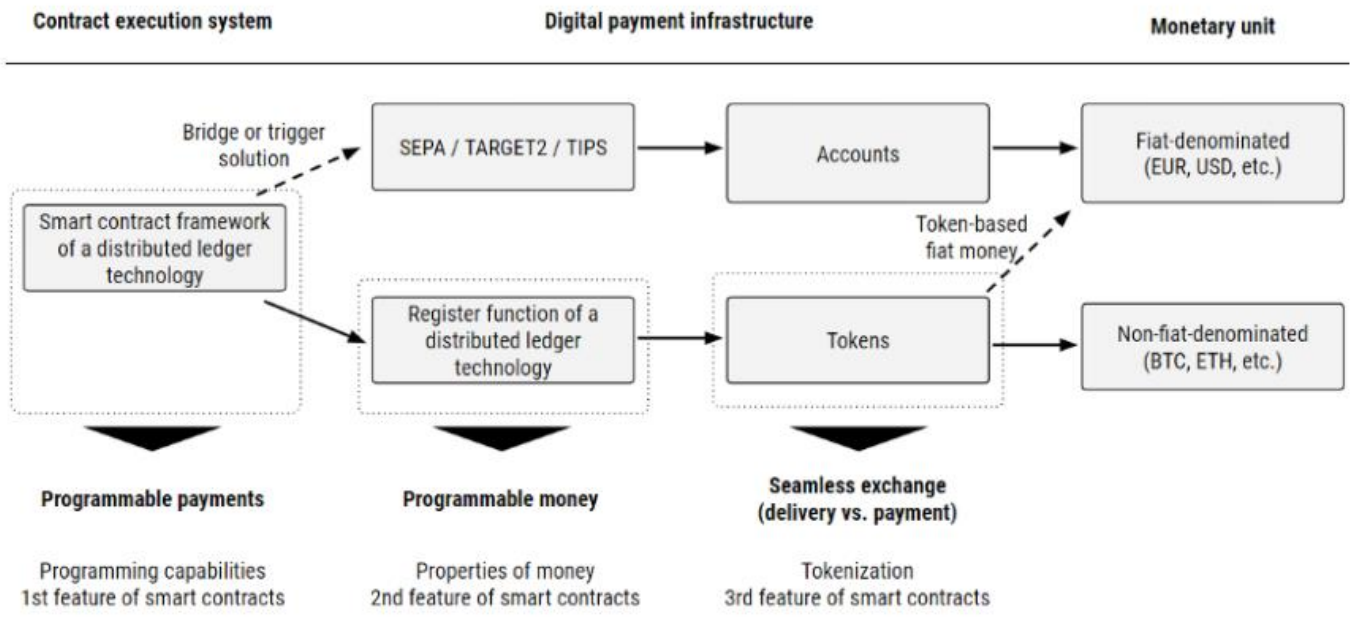

Figure 1: Programmable payment value chain. Integrating different dimensions of programmability with underlying features of smart contracts.

Contract Execution System
The first step in our programmable payment value chain is a contract that automatically triggers a payment. For example, any business logic or a business process can execute such contracts.

Digital Payment Infrastructure
It can either be processed using DLT or — with the help of a bridge or trigger solution — using conventional infrastructure such as SEPA, TARGET2 or TIPS. The digital payment infrastructure also determines whether the payment asset is account- or token-based (3rd feature of smart contracts). Payments based on accounts require the identification of the account holder. Payments based on tokens require the ability to verify the validity of the token. Tokens realize their full potential when they can be exchanged for other tokens, such as tokenized assets or services. This enables the seamless exchange with immediate transaction finality, also known as “delivery vs. payment”.

Monetary Unit
- Central bank digital currencies (CBDC)
- Synthetic central bank digital currencies (sCBDC)
- DLT-based commercial bank money
- DLT-based e-money
- FIAT-pegged Stablecoins

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Monetary units

CENTRAL BANK DIGITAL CURRENCY (CBDC)

issued by the central bank as legal tender.

SYNTHETIC CENTRAL BANK DIGITAL CURRENCY (sCBDC)

issued by commercial banks or e-money institutes. No legal tender, but backed 100% by central bank reserves. Obligation to exchange for legal tender at any time.

DLT-BASED COMMERCIAL BANK MONEY

issued by regulated financial organizations, e.g. commercial banks. No legal tender and only partially backed by central bank reserves (i.e., fractional reserve system). Obligation to exchange for legal tender at any time.

DLT-BASED E-MONEY

issued by e-money institutes. No legal tender. Fully backed by e-money on accounts. Obligation to exchange for legal tender at any time. In the sense of the new MiCA regulation proposed by the European Commission, these would be so-called E-Money tokens (EMTs).

FIAT-PEGGED STABLE COINS

issued by regulated (e.g., commercial banks, payment service providers) or unregulated financial organizations. Stablecoins are only "fiat derivatives". They replicate the price of a fiat currency, but are neither legal tender nor is there an obligation to exchange them for legal tender. they exhibit counterparty, exchange rate, and liquidity risks (ARTs)

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