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## The Future of Finance: Crypto Assets, Bitcoin, Tokenized Assets and the Digital Euro.







#### Prof. Dr. Philipp Sandner

Head of Frankfurt School Blockchain Center



### WHAT WE DO

The Frankfurt School Blockchain Center was founded in 2017 by Professor Philipp Sandner. We are a think tank and research center which investigates implications of the blockchain technology for companies and their business models.

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#### FACTS AND FIGURES

16 employees 100+ presentations worldwide 5 10 seminars 15+ research papers 20+ events **3 conferences** BLOCKROCKET dfine ropean Blockchain Lab



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METACO

## 15 consulting & research projects

RTX2

# **Digital euro**



01	Industrial area (Industrie 4.0, logistics, data monetisation)
02	Capital market (delivery vs. payment)
03	Remittances (international payments, cross border payments)
04	Machine economy (IoT, micro payments, streaming money)
05	Crypto assets (trading, DeFi, storage of value)





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01	Cross-border payments
02	Automated payments and business processes
03	Integration of delivery vs. payment (DvP)
04	Tokenization of rights and assets
05	Machine economy, IoT, micro payments and streaming money
06	IT security and system resilience

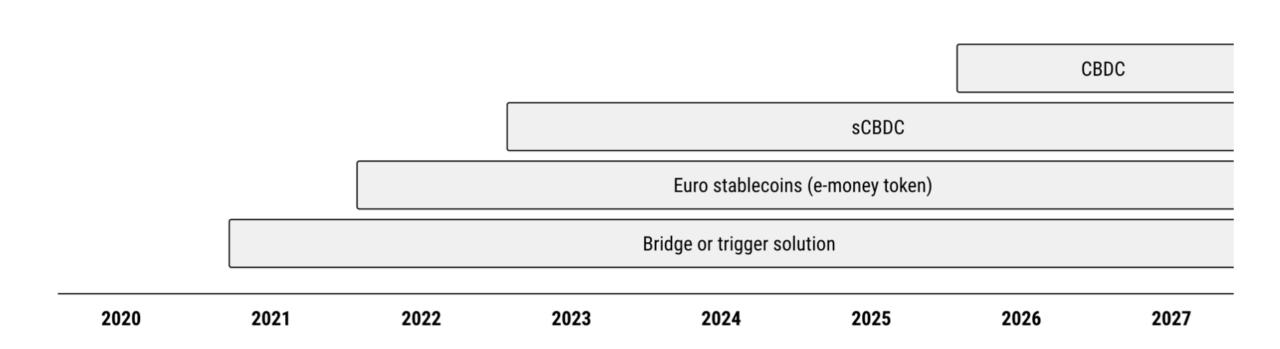


Nr.	Digital euro	Contract execution system	Digital payment infrastructure (pillar 2)		Monetary unit (pillar 3)	
			(pillar 1)	System operator	Technology	_
1	Euro on bank accounts	DLT	Commercial bank	No DLT (account- based)	Euro (commercial bank money)	2021
2	Euro stablecoin (e- money token, EMT)	DLT	Regulated organization (e.g. commercial bank, e-money provider) <sup>11</sup>	DLT (token-based)	Euro (potentially under e- money license)	2022
3	sCBDC	DLT	Commercial bank or e- money provider <sup>12</sup>	DLT (token-based)	Euro (commercial bank money, but 100% backed by central bank reserves)	2023
4	CBDC	DLT	ECB	DLT or no DLT (account- or token- based)	Euro (central bank money, legal tender)	2026-2028

Source: Bechtel, Ferreira, Gross, Sandner (2020)

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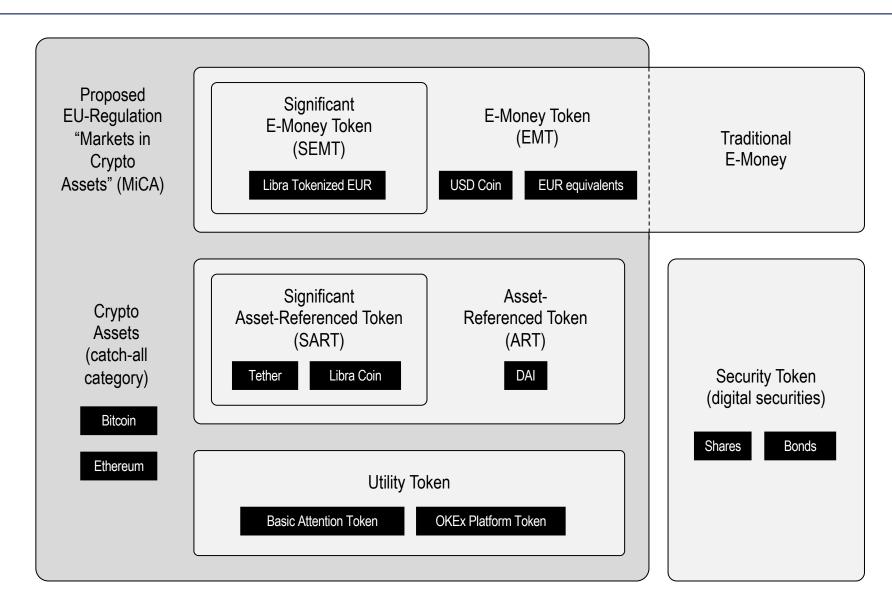


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## European "Markets in Crypto Assets Regulation" (MiCAR) : Types of crypto assets



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Contact



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**Prof. Dr. Philipp Sandner** Frankfurt School Blockchain Center Mail: p.sandner@fs.de LinkedIn

Please feel free to contact me via mail, Xing, LinkedIn or Twitter (@philippsandner)





Current position	<ul> <li>Professor at the faculty of the Frankfurt School of Finance &amp; Management</li> <li>Head of the Frankfurt School Blockchain Center (FSBC)</li> </ul>
Memberships and affiliations	<ul> <li>Member of the Fintech Council (FinTechRat) of Germany's Federal Ministry of Finance</li> <li>Member of the EU Blockchain Observatory established by the European Union</li> </ul>
	<ul> <li>Co-founder of the German Blockchain Association, the International Token Standardization Association (ITSA), the Multichain Asset Managers Association</li> </ul>
Expertise	<ul> <li>Blockchain technology in general, crypto assets such as Bitcoin and Ethereum, the digital programmable Euro, tokenization c assets and rights, digital identity.</li> </ul>
Experience and education	<ul> <li>Board of Directors of Avalog Ventures, Board of Directors of Tokentus Investment AG</li> </ul>
	<ul> <li>Advising financial organizations, industrial corporations and startups concerning their blockchain activities</li> </ul>
	<ul> <li>Research fellow at the Technical University Munich, the Ludwig-Maximilians-University Munich and the Berkeley Center for Law &amp; Technology</li> </ul>
	<ul> <li>Studies of business administration focusing on computer science at the University Mannheim, Copenhagen Business School</li> <li>Co-founder of a consulting company specialized in the area of innovation strategy, IP and technology transfer</li> </ul>
Awards and prizes	<ul> <li>Ranked as one of the "top 30" economists by the Frankfurter Allgemeine Zeitung (FAZ), a major newspaper in Germany, in 2018 and 2019</li> </ul>
	<ul> <li>"Top 40 under 40" ranked by the German business magazine Capital</li> </ul>
	<ul> <li>Awarded with several scholarships and research prizes</li> </ul>
Publications	<ul> <li>Publications in international peer-reviewed journals such as Administrative Science Quarterly, Research Policy, the Journal of Marketing Research and the Journal of Business Venturing</li> </ul>
	<ul> <li>Editor of two books; one book focuses on the implications of blockchain technology on companies, the other one focuses on the implications for the society. More: www.die-blockchain.ist/die-zukunft/</li> </ul>
Frankfurt School Blockchain Center	<ul> <li>Analyzing the implications of blockchain technology on companies and business models</li> </ul>
	<ul> <li>Providing a platform for decision makers, startups, technology experts and industry professionals to exchange their knowledg and share their visions</li> </ul>