




Frankfurt School Blockchain Center

Prof. Dr. Philipp Sandner

Blockchain Center
Frankfurt School of Finance & Management

 +49 69 154 008-790

 p.sandner@fs.de

 www.fs-blockchain.de

Executive Summary

Frankfurt School Blockchain Center



Prof. Dr. Philipp Sandner Head of Frankfurt School Blockchain Center

The Blockchain Center in a nutshell











- Organization of the **first workshop on "Corda for Developers"** in the D/A/CH region, jointly organized by the R3, of which 100 companies are members
- **IT implementation of various prototypes based on Ethereum, e.g.**
 - › the implementation of a car sharing system for an automotive supplier as a prototype
 - › support for a concept for a digital vehicle file based on blockchain
- **Numerous conferences, seminars, workshops, training courses and hackathons, e.g. in cooperation with**
 - › the R3 consortium
 - › the Federal Association of Alternative Investments e.V. (BAI)
 - › the Federal Association of German Equity Investment Companies e.V. (BVK)
 - › the Federal Association of German Banks e.V. (BdB)
- **Various studies on DLT and blockchain topics, e.g. recently**
 - › Taxation of crypto currencies
 - › Blockchain technology in the pharmaceutical industry
 - › Digitization in the insurance industry
 - › Comparison of consensus procedures

Memberships of Professor Sandner

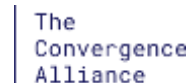
- Founding member of **Blockchain Bundesverband e.V.**
- **Top 30 in the economists ranking** of the Frankfurter Allgemeinen Zeitung (FAZ)
- **"Top 40 under 40"**; Ranking of the German business magazine Capital
- Member of the FinTech Council of the Federal Ministry of Finance Germany (BMF)
- Member of the **EU Blockchain Observatory** (Working Group "Policy & Framework Conditions")
- Board member of Avaloq Ventures
- Founding member of the **International Token Standardization Association** (ITSA) e.V.
- Founding member of the **Multichain Asset Managers Association (MAMA)**
- **Consultant** to large corporations, e.g. ThyssenKrupp, Pfizer, Mercedes Benz Bank, Aareal
- **Advisor to startups and ICO projects**, e.g. AZHOS, HYCON, Weeve, Vreo
- **Advisor to first European crypto fund** (Postera Capital)
- Media presence e.g. in
 - › Handelsblatt, NTV, ARD Tagesthemen, ZDF Wiso, CAPITAL
 - › Wirtschaftswoche, DIE ZEIT, Focus, Deutschlandradio, SRF
 - › Deutsche Welle

The team

A interdisciplinary think tank devoted to cutting edge Blockchain technologies in research as well as industrial applications

							
Prof. Dr. Philipp Sandner	Prof. Dr. Peter Roßbach	Philipp Schulden	Constantin Lichti	Luca Frignani	Veronika Kütt	Constantin Ketz	Christian Flasshoff
Head of Frankfurt School Blockchain Center	Digital innovation & fintech and business information systems	Initial coin offerings (ICOs) and use case development	Blockchain adoption and entrepreneurial finance	Applied machine learning and artificial intelligence	Self-sovereign identity and identity management	Blockchain, financial technology and security tokens	Technology research and business development
							
Ramie Ajmida	Jonas Groß	Evgeni Kozyr	Felix Bekemeier	Manelin Moarref	Pauline Polka	Philipp Rosenbach	
Research and academic project manager	Blockchain technology, monetary policy and security tokens	Initial coin offerings (ICOs) and distributed ledger technology research	Agent behavior in blockchain networks and blockchain use case development	Agile project management for startups and blockchain research	Entrepreneurial finance, applied machine learning and incentive models	Crypto assets and corporate and entrepreneurial finance	

Facts and Figures



Our mission

We are committed to deliver meaningful and sustainable impact for our clients by leveraging blockchain & distributed ledger technology



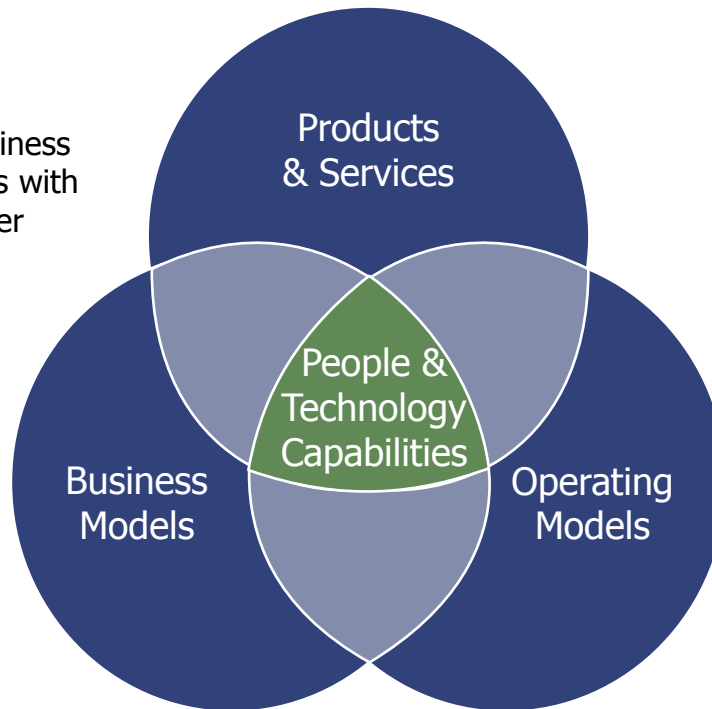
User experience

- › Solving existing real world problems for consumer business and government institutions with the help of distributed ledger technologies (DLT)



Supportive integration

- › Supplementing existing business models with technological assessment and holistic integration of the enterprise blockchain to support the goals of our customers



Operational excellence

- › Optimizing processes and generating efficiencies by integrating and using the latest DLT trends (e.g. security token)



Monetization

- › Re-allocation of value from platform to the user (e.g. via tokenization) by developing new business models to disrupt centralized platform businesses



We have the right team and capabilities to serve our clients and advance their business and operating models as well as their products and services

Who we work with

With our partners and customers, we create a strong network of blockchain expertise



Our portfolio

The four pillars in our portfolio have grown rapidly and steadily since 2017



Our portfolio

We are building a professional track record in the DLT economy



Consulting, Prototypes and Research

- › Use case consulting for corporates and government institutions
- › Prototype development to evaluate enterprise blockchain concepts and assess applicability in existing business processes
- › New DLT developments (e.g. security tokens) and technology assessment



Community & Events

- › Strong network of blockchain specialists
- › Regular events on current blockchain topics for participants across all knowledge levels
- › Participating in blockchain & crypto think tanks



Startups Advisory & Incubation

- › Supporting and cooperating with startups on blockchain and DLT related topics
- › Attended numerous meetups across the globe and connected with many startups and major industry players



Education & Trainings

- › Educate executives and students about blockchain technology
- › Holding lectures on blockchain technology, crypto currencies and other DLTs



**Consulting, Prototypes and
Research**

What we do

A selected overview of our projects

1



- › Certificates issued via blockchain-based uPort dApp



2



- › Analyzed four different DLTs to find the best fit for a tenant management system



3



- › Framework for classifying cryptographic tokens according to various different dimensions

4



- › Fostering "smart factories" and autonomous production by creating decentralized structures



What we do

A selected overview of our projects

5

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

- › Improving access to remittances and other financial services through digital solutions in Jordan



6

Disrupt Network

- › The Disrupt Network facilitates the exchange of knowledge and experiences of those that use and want to make use of disruptive technologies



7

INVERS

- › Prototype of a futuristic shared mobility service which is purely based on blockchain technology

International Token Standardization Association (ITSA)

Detailed analysis of over 800 crypto currencies and tokens



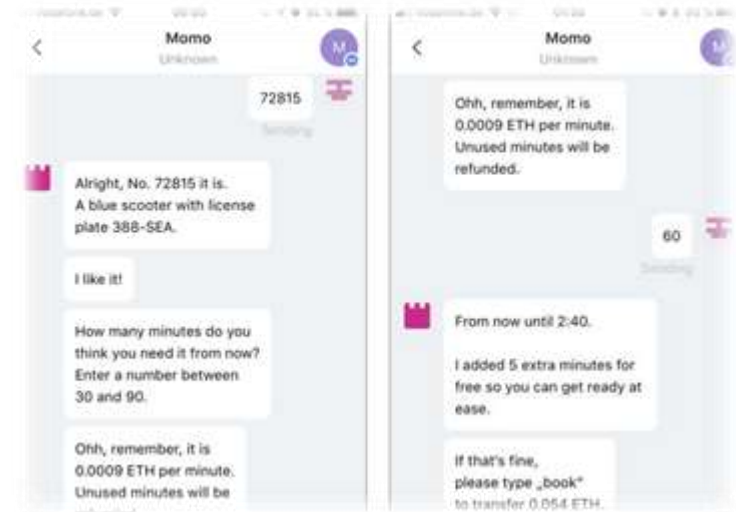
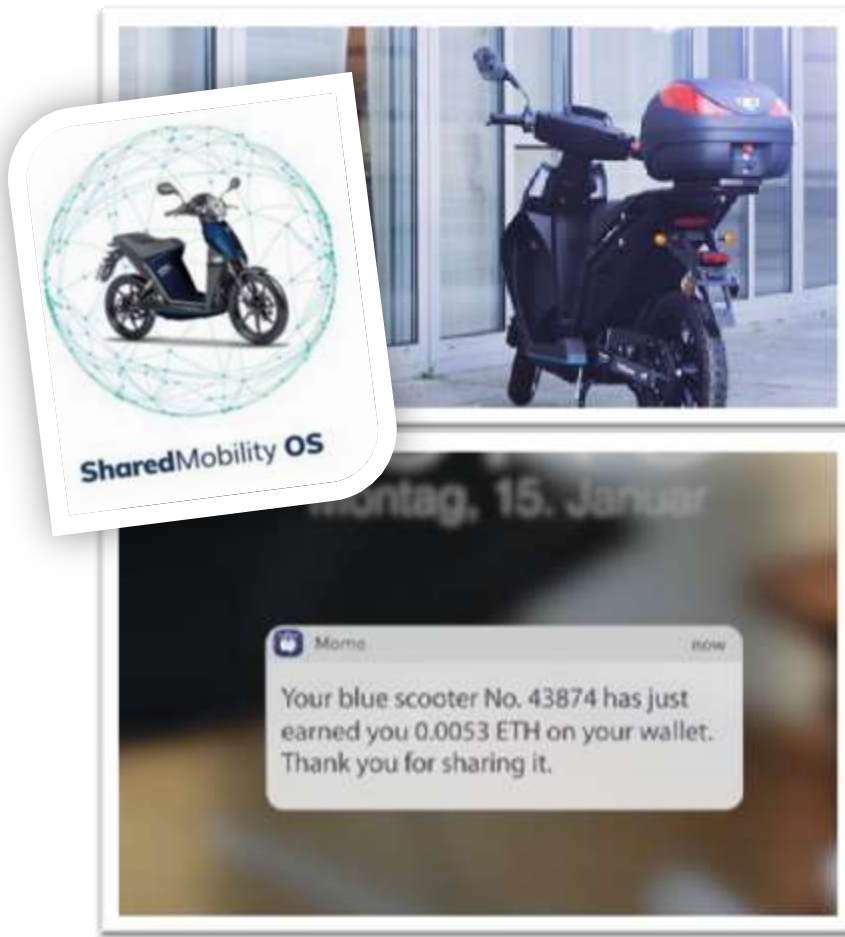
<https://itsa.global/>

- › Framework for classifying cryptographic tokens according to various different dimensions
- › It is already applied to the top 800+ tokens and will be continuously updated and extended through the classification of more tokens as well as the supplement of further dimensions and classes
- › Holistic standard for the classification of tokens in order to support regulators, investors, researchers and entrepreneurs in navigating and steering the global token economy



INVERS

The future of shared mobility on a blockchain



- › Combination of INVERS Shared Mobility Technology with Ethereum
- › As mobility should prospectively not be determined by ownership, the Frankfurt School Blockchain Center collaborated with INVERS GmbH to build a prototype of a future shared mobility service which is purely based on blockchain technology
- › The Frankfurt School Blockchain Center supported the project and delivered blockchain-based IT consulting with focus on Ethereum

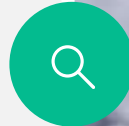
iBlockchain

Federal Ministry of Education and Research

Industrial Blockchain – Decentralizing Industry 4.0

Decentralizing the Industry 4.0

Decentralizing central, proprietary platform approaches within the Industry 4.0 to federated structures by using blockchain technology



Future-driven Research

Conducting research over a period of 4 years into the necessary concepts, methods and technologies for the next generation of intelligent manufacturing

Enabling Cooperation

Decentralized structures allow cooperative and trustworthy cooperation between different actors (e.g. humans, machines, sensors)



Setting of Economic Principles

Assessment and analysis of economic fundamentals for the validation of decentralized business models

High-Tech Strategy: Smart Factory

Enabling joint and fully automated autonomous production within the framework of the so-called "smart factory"



Comprehensive Partnerships

Formation of renowned project partners from science and industry



Project Partners



Blockchers

EU Horizon 2020

Facilitate the revolution of Distributed Ledger Technologies across European SMEs

- › Blockchers has received funding from the European Union's Horizon 2020 research and innovation framework funding programme
- › This project aims at supporting traditional SMEs with the implementation of DLT in collaboration with innovative startups / SMEs, which receive up to EUR 50k and additional services. The match-making between traditional and innovative SMEs fosters collaboration and innovation in various sectors across European countries
- › The Frankfurt School Blockchain Center will assist with policy recommendations for the current regulatory framework in order to facilitate adoption of DLT by SMEs in the EU
- › **Duration: 2 years**



KOSMoS

Bundesministerium für Bildung und Forschung

Building a smart contract platform for the manufacturing industry



- › “Kollaborative Smart Contracting Plattform für digitale Wertschöpfungsnetze” (KOSMoS) is a project funded by the BMBF and supervised by the PTKA
- › This project aims at building a smart contract platform leading to efficient cooperation across companies. The platform allows for investigating novel use cases in the manufacturing industry, such as
 - i) the transparent maintenance and
 - ii) dynamic leasing of machines as well as
 - iii) a simple proof of product based on DLT
- › The Frankfurt School Blockchain Center will assist with economic principles beyond DLT and analyses of use cases with focus on the Industry 4.0 sector
- › **Duration: 3 years**



Two different books on blockchain and finance and blockchain and society

Together with the leading experts and visionaries in the field of blockchain in Germany, FSBC published two comprehensive, informal non-fiction books about blockchain

Format
Informal, non-fiction books in German
with about 250 pages each



Authors
Leading scientists and visionaries of
the German Blockchain ecosystem



Publisher
We work together with one of the
leading publishers in Germany



Content
The core topic is about blockchain
technology and its implications for Germany



Forward-looking
Hypotheses on radical changes due
to blockchain technology



Goal
To inspire more intellectuals for the
blockchain sector

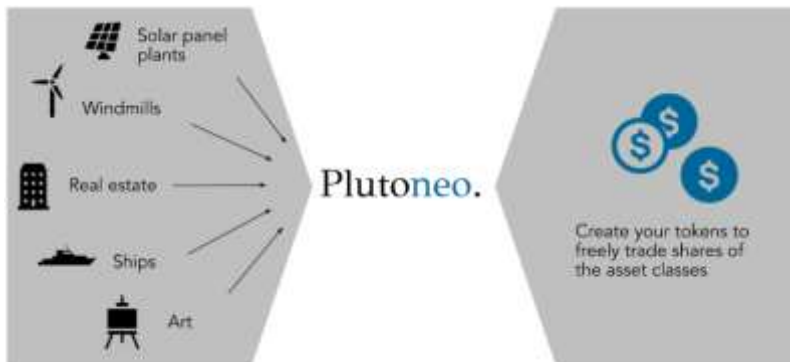
"How Blockchain will change the German economy"

"Blockchain technology will become a key technology for the next ten to twenty years that will change Germany decisively."

Plutoneo

Reducing inefficiencies in asset management through blockchain technology

Plutoneo.



- › Accompaniment of the client in the development of a startup in the area of asset management based on blockchain technology
- › Traditional asset management is characterized by inefficiencies of e.g. many intermediaries, slow settlement and high cost; inefficiencies that could be solved by the blockchain technology
- › Especially illiquid assets can be more cost-efficient through the application of blockchain technology
- › Focus of the Frankfurt School Blockchain Center activities are the application of blockchain technology, development of the platform, market research, provision of legal support and the business case

Blockpool.eu - Horizon2020

<https://Blockpool.eu>

Pooling SME adoption and deployment of blockchain and other DLTs

- › Blockpool is a project funded by the European Commission as part of the Horizon2020 INNOSUP programme
- › Starting in February 2019 the aim of this project is to accelerate European SMEs uptake and deployment of blockchain and other DLTs (BDLT)
- › A multi-sectorial deployment pool will be established, consisting of 25 SMEs which will receive multi-level support by the consortium
- › The Frankfurt School Blockchain Center will help to
 - › develop a comprehensive understanding of the European BDLT ecosystem (mapping of relevant initiatives and specialists, undertaking a BDLT Risk Assessment and a regulatory analysis)
 - › formulate recommendations to intermediaries, policy makers and regulators
- › **Duration: 2 years**



INNSOMNIA
Innovadores que sueñan



Society for international cooperation (GIZ)

Facilitating public access to the financial services ecosystem through digital solutions in Jordan




- › The objective of this consultancy mission was to provide strategic advice and capacity building to project stakeholders and DFS industry players on the application of blockchain technology in financial services
- › Consultancy project
- › On-site mission in Amman, Jordan (Aug 2018)
- › Clients include GIZ, Central Bank of Jordan, World Food Programme, Digital Financial Service Council



Consensys

Blockchain-based certificates to create a reliable verification ecosystem

- › The verification and authentication of a certificate takes time, is expensive, and annoying. Applicants and examiners suffer from this as well as the issuers of the certificates, such as citizen centers or universities
- › They must regularly fight against forged certificates and the associated reputational damage
- › Moreover, the recipients do not have full control over the diplomas and certificates obtained
- › The Frankfurt School of Finance & Management is the first university in Germany to offer blockchain-based certificates in cooperation with Consensys
- › With this new technology, it is possible to create fraud-resistant certificates and statements, including an easy and digital verification process



Joseph Lubin @ozlewisjoe

Why leave education verification to a centralized party? Truly epic to see @FrankfurtSchool partner with @ConsensSys and @uport_me to be the first German uni offering #blockchain-based academic certificates. Big thanks to @Veronikakuett & @philippsandner.

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Back

from Frankfurt School Blockchain Center Exp. the Capstone
<http://www.frankfurt-school.de/home/research/centres/blockchain.html>

Veronika Kütt



Verifications Accounts Contacts

Ethereum (Rinkeby)

Ethereum (Rinkeby)

Certified Blockchain Expert

Participant	Veronika Kütt
Certificate	Blockchain Expert
City Of Issuance	Frankfurt am Main
Country Of Issuance	Germany
Date Of Issuance	30.10.2018

Aareal Bank

Comparative analysis of four DLTs

- › In cooperation with Aareal Bank, the Frankfurt School Blockchain Center conducted a thorough analysis on Hyperledger fabric, Ethereum, R3 Corda and Stellar Quasar by generating a framework consisting of various business requirements and scoring the technologies based on their satisfaction of these characteristics
- › The study furthermore identified possible fields of application for each DLTs
- › The examined DLTs span a continuum of high flexibility in different aspects as well as generic platform solutions for literally any kind of application

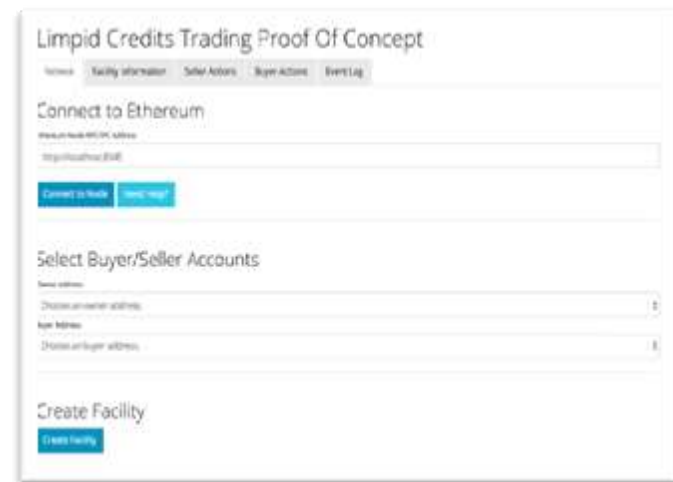


Kriterium	Ethereum	Hyperledger Fabric	R3 Corda	Quartz Quasar
Datenspeicherung	●	●	●	●
Kürzen von Blocks und StateDB	●	●	●	●
Datenvolumen pro Sekunde	●	●	●	●
Multi vs. Single Threading (DLT)	●	●	●	●
Multi vs. Single Threading (Validation)	●	●	●	●
Durchschnittliche Transaktionskonformationszeit	●	●	●	●
Hardware	●	●	●	●

Proof-of-Concept on trading loans

Ethereum can facilitate trading loans

- › While many different institutions work on the settlement part of trading financial instruments, few have looked into the advantages blockchain can offer for trading of loans
- › The Frankfurt School Blockchain Center created a proof-of-concept to show the following advantages:
 - › Easier bondholder communication while keeping holders anonymous
 - › Anonymous BWICs and AWICs while trust is established through distribution using the technology layer
 - › Smart contracts enable the inclusion of fiat currencies into the transaction flow



Study on patent ownership of crypto currency-related technologies

- › The Frankfurt School Blockchain Center and the patent law firm KNH Patentanwälte conducted a joint study on patent ownership rights of crypto currency-related technologies
- › Analysis of patents filed in the area of blockchain and crypto currencies
- › Core technology cannot be protected due to open source
- › But increasingly strong patent activity for various further facets of related technologies
- › Mostly US financial companies file patents



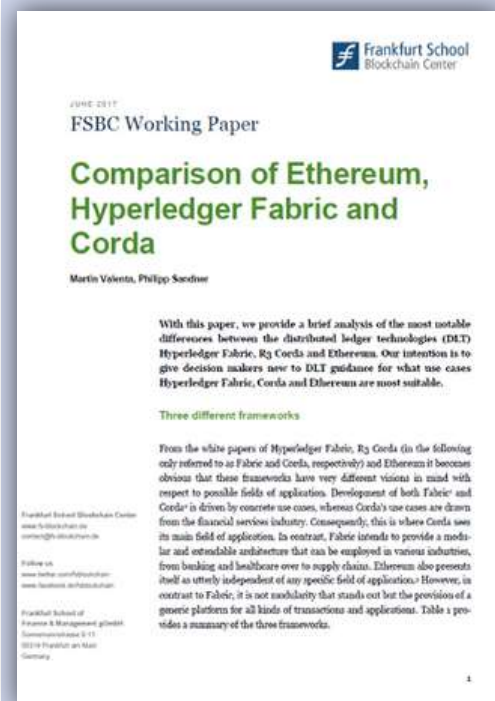
KNH[®]
PATENTANWÄLTE

Frontier research about blockchain

<https://medium.com/@fsblockchain>

We explore the possibilities of blockchain technology through various academic studies

Comparison of Ethereum, Hyperledger Fabric and Corda



2017

Application of Blockchain Technology in the Manufacturing Industry



2017

Solving Challenges in Developing Countries with Blockchain Technology



2017

Frontier research about blockchain

<https://medium.com/@fsblockchain>

We explore the possibilities of blockchain technology through various academic studies

Blockchain Technology in the Pharmaceutical Industry



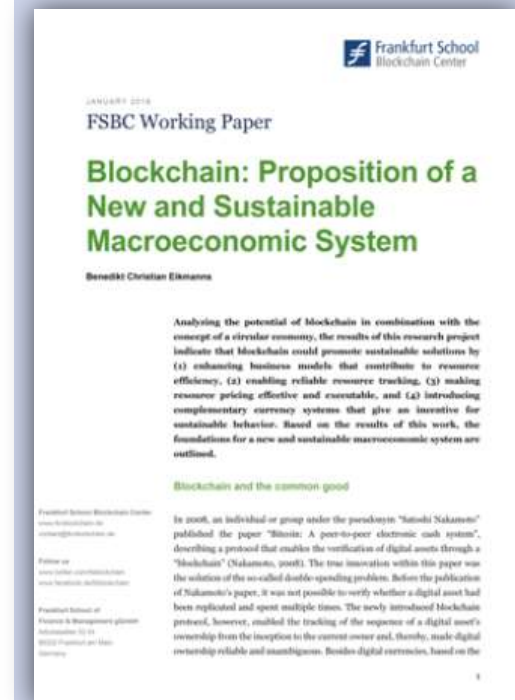
2017

Identifying Leading Blockchain Startups on a Worldwide Level



2017

Blockchain: Proposition of a New and Sustainable Macroeconomic System



2018

Further research and published studies

<https://medium.com/@fsblockchain>



Identifying Leading Blockchain Startups on a Worldwide Level

(December 2017, [Internet](#), [PDF](#))

Application of Blockchain Technology in the Manufacturing Industry

(November 2017, [Internet](#), [PDF](#))

Solving Challenges in Developing Countries with Blockchain Technology

(October 2017, [Internet](#), [PDF](#))

Besteuerung von digitalen Assets wie Kryptowährungen und Tokens*

(September 2017, [Internet](#), [PDF](#))

Blockchain-Technologie: Vom Hype zur Wirklichkeit*

(July 2017, [Internet](#), [PDF](#))

Blockchain Technology in the Pharmaceutical Industry

(July 2017, [Internet](#), [PDF](#))

R3 Corda: Implementierung eines Prototyps für Schuldscheindarlehen und Vergleich verschiedener DLT-Frameworks*

(July 2017, [Internet](#), [PDF](#))

Further research and published studies

<https://medium.com/@fsblockchain>



Comparison of Ethereum, Hyperledger Fabric and Corda

(June 2017, [Internet](#), [PDF](#))

Consensus Methods in Blockchain Systems

(May 2017, [Internet](#), [PDF](#))

Digitalisierung der Versicherungswirtschaft mit Blockchain und Smart Contracts*

(May 2017, [Internet](#), [PDF](#))

Further research and published studies

<https://medium.com/@fsblockchain>



Blockchain-Based ICOs: Pure Hype or the Dawn of a New Era of Startup Financing?

(November 2018, [PDF](#))

Blockchain in the Chemical Industry

(September 2018, [Internet](#), [PDF](#))

Mit Blockchain auf dem Weg zur Smart Maintenance*

(September 2018, [Internet](#), [PDF](#))

Rechtliche & marktorganisatorische Anforderungen an den P2P-Stromhandel*

(April 2018, [Internet](#), [PDF](#))

Soft und Hard Forks: Wirtschaftliche und steuerrechtliche Auswirkungen*

(April 2018, [Internet](#), [PDF](#))

Analysis of Blockchain Technology in the Mobility sector

(April 2018, [Internet](#), [PDF](#))

Blockchain-basierte Abrechnung der IoT-registrierten Stationshalte: ein Proof-of-Concept auf Basis von Ethereum*

(April 2018, [Internet](#), [PDF](#))

Further research and published studies

<https://medium.com/@fsblockchain>



Security in Blockchain Applications

(March 2018, [Internet](#), [PDF](#))

How We Built the Future of Shared Mobility Within Four Weeks

(February 2018, [Internet](#), [PDF](#))

Blockchain: Proposition of a New and Sustainable Macroeconomic System

(January 2018, [Internet](#), [PDF](#))



Startups Advisory & Incubation

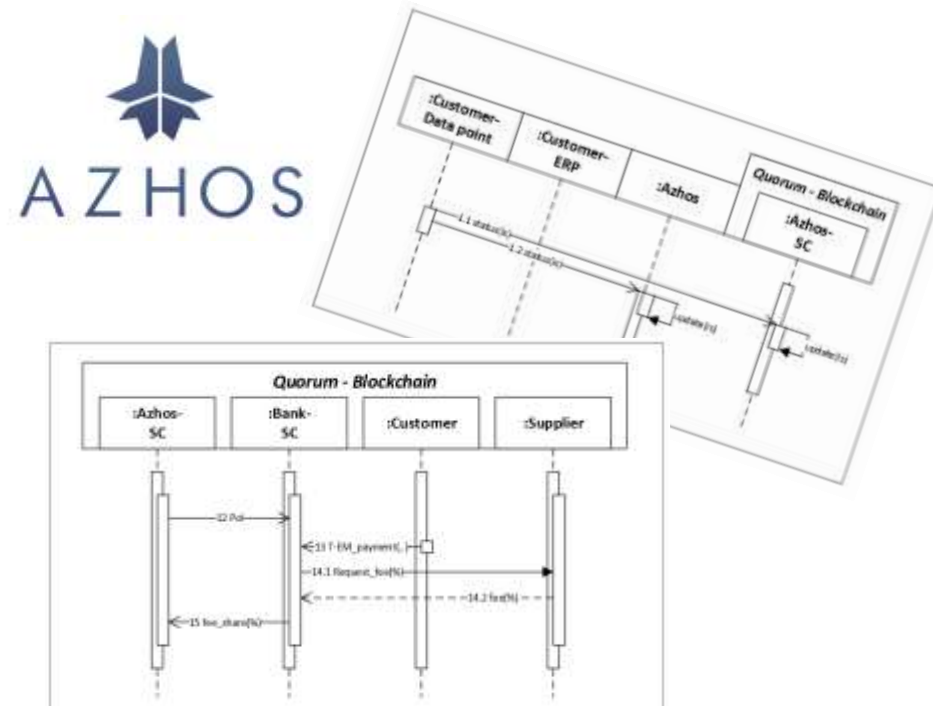
AZHOS

<https://azhos.io/>

Blockchain-based factoring solutions for worldwide shipments



- › A huge market and an outstanding technology will enable AZHOS to profit from different factoring solutions for world wide shipments as it will play an important role as the connection between the producer, customer and banks. As a further step it is planned to develop an own factoring system
- › AZHOS is benefiting from an international team of world known experts in the field of blockchain technology and international supply chains and can fall back to a vast amount of data collected over the last 20 years from partners in the industry
- › The Frankfurt School Blockchain Center contributed to the business and financial model development of AZHOS related to the chemical industry





Community & Events

What we do

We organize a variety of different events to foster exchange and educate about DLT



German landmark event with over 300 participants. The Crypto Assets Conference presents a line-up of the next generation of disrupters and thought-leaders like Fabian Vogelsteller that provide answers to major questions in the blockchain space.



2-day conference which aims to connect the Asian and the European crypto scene. Multiple speakers of the 20 highest capitalized crypto currencies share their insights about current technological advances and experiences in their ecosystem.



5-day course to provide participants with the necessary tools to make existing business models ICO-ready, or to accelerate a new business model through an ICO, respectively.



The ideal platform for aspiring entrepreneurs and investors, with panel discussions, talks by seasoned speakers, presentations by startups in the blockchain field and a pitch battle between the hottest European-based blockchain startups.

Crypto Assets Conference (CAC) 2018

<https://crypto-assets-conference.de>

February 26 – February 27, 2018 in Frankfurt am Main



- › Landmark event: 400+ participants, 80+ speakers, 2 days, 3 parallel streams
- › Recent developments of the crypto scene from financial, technological and legal perspectives
- › Bringing together technology experts and entrepreneurs with corporates and regulators, talking about the future of crypto assets
 - › Top speaker included e.g. ECB, Deutsche Bundesbank, BaFin, Commerzbank, Börse Stuttgart, Coinmarketcap



Handelsblatt
boerse.ARD.de®



Crypto Assets Conference (CAC) 2019

<https://crypto-assets-conference.de>

February 25 – February 26, 2019 in Frankfurt am Main



- › After the great success in 2018, the Frankfurt School Blockchain Center and partners will be hosting the CAC again in 2019
- › State-of-the-art conference about what the future holds for crypto assets with top speakers like Kraken, European Central Bank, Ripple, BaFin, SatoshiPay and many more
- › Bringing together technology experts and entrepreneurs with corporates, regulators and other participants in the financial ecosystem



East-West Crypto Conference (EWCC)

<https://ewcc.io>

October 22 – October 23, 2018 in Frankfurt am Main



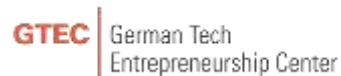
- › Landmark event with over 300 participants and 40+ speakers
- › Discussions about the latest and most promising technological over 2 days
- › Bridge between the Asian and European crypto world
- › Marketplace for networking, collaborations and exchanging business ideas and insights



Crypto Startup School 2018

<https://crypto-startup-school.de>

June 25 – June 29, 2018 in Frankfurt am Main



- › 1-week summer school format: knowledge transfer in the area of blockchain
- › Gathering the tools to prepare a business to become ICO-ready in just five days
- › Organized by two leading institutions
- › Lectures, workshops and hands-on work experience in one of Europe's leading business schools



Blockchain Startups Summit (BSS)

<https://blockchainsummitfrankfurt.com/>

November 15, 2018 in Frankfurt am Main



First edition of the summit

- › Collaboration between the Frankfurt School Blockchain Center and EU-Startups.com



Pitch Competition

- › Pitch battle between Europe's hottest blockchain-based startups



Panel Discussions

- › Fireside chats and panel discussions with famous founders and blockchain experts



Networking

- › 300 entrepreneurs, investors, and blockchain experts from all across Europe

Ethereum Camp 2017

<https://www.dlt.camp/>

March 26 – March 29, 2017 in Frankfurt am Main



- › FSBC co-organized the first Ethereum camp in 2017 together with our partners TU Munich, Daimler Truck, Commerzbank and Ventum
- › The participants connected Ethereum to real IoT products, shaping the machine-to-machine future of blockchain technology based on previously defined use-cases
 - › The winning project:
„Decentralised Drone Network“



Ethereum Camp 2018

<https://www.dlt.camp/>

March 26 – March 29, 2018 in Berlin



- › Subsequent to the Ethereum Camp 2017, FSBC helped to organize the Ethereum Camp in 2018
- › 90+ participants connected Ethereum to real IoT products, shaping the machine-to-machine future of blockchain technology (70% IT developers)
- › The event proceeded within a 5-day framework, empowering blockchain enthusiasts to transform their ideas into prototypes



Exclusive Mini-Conference with S&P

September 20, 2018 in Frankfurt am Main

- › The Frankfurt School Blockchain Center and S&P Global jointly organized a conference about how blockchain and FinTech will change the financial ecosystem
- › Together with thought leaders from the areas of FinTech, blockchain, crypto assets and ICO, we were evaluating the current development and growth of these markets
- › Conference with over 160 participants, top speakers included Kensho, DWF & Finance Working Group, Blockchain Bundesverband, S&P Global Ratings, Salt Lending and Blocksize Capital



Exclusive Mini-Conference with Bosch

November 23, 2018 in Frankfurt am Main

- › The Frankfurt School Blockchain Center and Robert Bosch jointly organized a half-day event to explore new business models at the intersection of the big two topics: mobility and finance
- › Together with thought leaders from the areas of finance, mobility, Internet of Things and blockchain, we explored which business models will be enabled by Distributed Ledger Technology and blockchain in specific
- › Conference with over 180 participants, top speaker included Bosch, Commerzbank, Daimler, Evonik Digital, Enterprise Ethereum Alliance and Weeve



Disrupt Network (Blockchain Week)

<https://germanblockchainweek.de/>

Facilitating the exchange of knowledge and experiences of those that use and want to make use of disruptive technologies



- › The communities focus on all kinds of disruptive technologies, and meet in Germany, Austria and Switzerland
- › Connecting startups, enterprises, and enthusiasts for tech-driven areas such as blockchain, artificial intelligence, IoT, and other disruptive technologies that drive digital transformation
- › Easy access to roadshows across Germany, Austria and Switzerland to promote businesses



e-shelter

Sponsors and Speakers Blockchain Week

<https://germanblockchainweek.de/>



AZHOS Supply-Chain Innovation Day

<https://azhos.io/>

February 21, 2019 in Frankfurt am Main

- › The Frankfurt School Blockchain Center and AZHOS AG jointly organize a half-day event to explore new business models at the intersection of the two big topics supply-chain management and finance made possible by blockchain
- › Together with thought leaders from the areas of finance, chemical industry, Internet of Things and blockchain, we will explore which business models will be enabled by distributed ledger technology and blockchain in specific
- › The focus will be laid on the one hand on practical real-world examples within the chemical industry and, on the other hand, on the implications of these new technologies for the financial ecosystem



- › Speakers include McAfee Associates, Enterprise Ethereum Alliance, CLLB Munich, Evonik, PwC Switzerland, AZHOS, Commerzbank, BlockApps



Education & Trainings

Certified Blockchain Expert

<https://www.frankfurt-school.de/home/executive-education/digital-transformation/certified-blockchain-expert>

March 27 – May 26, 2019 in Frankfurt am Main



- > This course is designed for everybody who wants to acquire IT and business skills in blockchain technology
- > The course has an IT track and a business track such that it is suitable for both IT experts and business developers who seek to understand blockchain technology and crypto currencies
- > Among others, we focus on the Ethereum and the Hyperledger platforms. From an IT perspective, this includes writing smart contracts and decentralised applications (DApps). Further, from a business perspective, we provide an understanding of the variety of possible blockchain use cases and business models
- > The program consists of two 4-day weeks and a final term paper



Forum – Blockchain in Finance

November 08, 2018 in Frankfurt am Main

4th forum in March 2019 (in St. Gallen)



Cooperation with Business Engineering
Institute St. Gallen

BEI Business Engineering
Institute St. Gallen

Competence Center
Sourcing in der Finanzindustrie

Semi-annual event
80+ participants

Topics:

- › Potential of new value creation structures in the financial sector
- › The different frameworks Ethereum, Hyperledger and Corda
- › Smart contract use cases for the automation of processes
- › Implementation of projects: e.g. KYC process, borrower's note loans
- › Storage of contract contents and data records on the block chain



6th Central Banking Workshop

November 21 – November 24, 2016 in Eltville and Frankfurt am Main



Sixth Central Banking Workshop about the opportunities and challenges of blockchain technology with top speakers, e.g. R3, Eris Industries, Cambridge Blockchain, Digital Asset Holdings, and more

Topics:

- › Workshop is based on the idea of combining academic research with the experience of practitioners
- › Four days and five modules
- › Use cases in payments, post-trading and beyond
- › Regulatory issues for central banks

Today you met:



Prof. Dr. Philipp Sandner

Adickesallee 32-34
60322 Frankfurt am Main

Tel +49 69 154 008-790

Mail p.sandner@fs.de

LinkedIn [linkedin.com/in/philippsandner](https://www.linkedin.com/in/philippsandner)

Twitter [@philippsandner](https://twitter.com/philippsandner)

