Our Portfolio

Frankfurt School Blockchain Academy
Offers "Blockchain Masterclass" trusted source for both essential and expert know-how around blockchain, crypto assets and DLT.

Crypto Assets Conference
Largest 3-day conference on the topics of blockchain, DLT, and crypto assets in Germany; 2x per year; 1500 participants per conference.

DeFi Talents
Certification program for in-depth understanding of crypto assets, DLT frameworks and DLT-based use cases in non-financial domains.

DLT Talents
3-month mentoring program offered to 150+ women per year to empower them for leadership in the blockchain, crypto assets, and DLT space.

Digital Asset Seminar Series
Workshop series for organizations targeting executives which require certification of advanced blockchain knowledge for regulatory reasons.

DT Education Consortium
Swiss-based company offering attestations of knowledge for professionals in blockchain and digital assets.

Digital Euro Association
Non-profit association and think tank specialized on CBDCs, stablecoins, and other forms of the digital euro.

International Token Standardization Association
ITSA aims at promoting the development and implementation of market standards for cryptographic tokens.

Our Partners

COMMERZBANK

SettleMint

Blockchain Founders Group

d-fine

INVAO

STIFEL Europe

METACO

tradias trading digital assets

BLOCKSIZE CAPITAL

DFX Decentralized Finance Exchange
The Frankfurt School Blockchain Center is a think tank and research center which investigates implications of the blockchain technology, crypto assets and distributed ledger technology (DLT).

**Objective**
Besides the development of prototypes, FSBC serves as a platform for managers, startups, technology and industry experts to share knowledge and best practices.

**Execution**
Together with our partners we engage innovative topics such as CBDC, DeFi, and more. Our portfolio includes work in the areas of research, consulting, training and events.

**Mission**
Our mission is to support businesses and contribute to the public and political discourse through research and education. We generate new knowledge about commercial, managerial and societal implications of blockchain technology, develop prototypes and help businesses and their stakeholders better understand DLT.
Since its inception in 2017, the Frankfurt School Blockchain Center has been performing a wide range of activities around crypto assets, blockchain and DLT for many different clients and partners.

<table>
<thead>
<tr>
<th>Facts &amp; Figures</th>
<th>Details</th>
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| **16 Team Members** | 110+ members of our projects  
1000+ experts in our network |
| **+60 Events Hosted** | CAC 2021 with 5300+ participants and 100+ speeches  
Events hosted in 2021: 12+ |
| **+50 Papers Published** | Medium articles: 43+  
Articles published in 2021: 6+ |
| **+100 Presentations Worldwide** | Reaching companies of DAX and S&P 500  
Top outreach in DACH-region |
| **+20 Partner Organizations** | Commerzbank, d-fine, Metaco, Settlemint, Spherity and more  
Working with many other organizations from Germany and around the world |
Prof. Dr. Philipp Sandner is head of the Frankfurt School Blockchain Center (FSBC) at the Frankfurt School of Finance & Management. His expertise includes blockchain technology in general, crypto assets such as Bitcoin and Ethereum, the digital programmable Euro, tokenization of assets and rights & digital identity.

Prof. Dr. Philipp Sandner was repeatedly ranked as one of the "Top 30" economists by the Frankfurter Allgemeine Zeitung (FAZ), a major newspaper in Germany. Further, he belonged to the "Top 40 under 40" – a ranking by the German business magazine Capital.
In the Media

Why hackers rely on Bitcoin for ransom payments
The cryptocurrency is considered transparent and decentralized. In the blockchain, all transactions can be traced forever. Nevertheless, Bitcoin is a currency of choice for cybercriminals. How does that square up?

Digital Assets: The Future Of Capital Markets
For many years, certain parts of financial markets have been burdened by unnecessary restrictions leading to inefficiencies regarding the free allocation of capital. The upcoming broad applications of digital assets promise to change this. This article serves as an introduction to the topic of digital assets and describes some of the associated opportunities and challenges for retail investors, institutional investors, and financial service providers. Legacy markets have long faced obstructions stemming
While we do a variety of different work on projects for clients all over the world, what we do can be summarized in five categories. The following slides show some examples, to give you a better understanding of the FSBC.

1. Consulting
   We provide our clients with expertise in a wide variety of topics.

2. Research
   We regularly publish research bringing DLT and blockchain applications into focus.

3. Education & Training
   We offer certification for professionals, and organize educational programs.

4. Events & Conferences
   We bring together companies, start-ups, and the community.

5. Startup Advisory
   We help start-ups find their way and refine their business models.
In collaboration with Datarella and Capgemini, the Frankfurt School Blockchain Center has been tasked with assessing the feasibility of moving the German National CO₂ register onto a DLT-based system.

The current processes are time consuming and require a considerable amount of manual processing. The focus of this study is assessing how distributed ledger technology can be used to improve efficiency and automation of the system.

The proposed solution lays the groundwork for future innovation, since a DLT-based system could be extended to incorporate other aspects of the process, such as emissions trading.
Research: CO₂ Footprint of BTC investments

Project Highlights

Researching a standardized method allowing investors to calculate their CO₂ Footprint associated with Bitcoin investments. Paper will be published later this month.

Transaction-based carbon footprint formula

Variables:
CO₂eq - Carbon dioxide equivalent [t]
\( x_t \) - Proportional network usage at a specific point in time \( t \)
\( T_{\text{tx}} \) - Transaction size [bytes]
\( BS_t \) - Blockchain size [bytes]
\( EC \) - Electricity consumption [kWh]
\( EF_{\text{CO₂eq}} \) - CO₂eq Emission factor [t/kWh]

Usage-based carbon footprint
\[
CO₂eq(x_t) = x_t \cdot \bar{EC} \cdot EF_{\text{CO₂eq}}
\]

Proportional network usage
\[
x_t = \frac{\sum_{i=1}^{t} T_{\text{tx},i}}{BS_t - BS_t}
\]

Electricity consumption (standardized)
\[
\bar{EC} = \frac{1}{t} \sum_{i=1}^{t} EC_i
\]

Bitcoin electricity consumption
September 1, 2020 - August 31, 2021

<table>
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<tr>
<th>Theoretical lower bound</th>
<th>Best-guess estimate</th>
<th>Theoretical upper bound</th>
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<tbody>
<tr>
<td>36.09 TWh</td>
<td>90.86 TWh</td>
<td>253.05 TWh</td>
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Frontier research about DLT

We regularly explore the possibilities of blockchain technology through academic studies.

Research

Blockchain in Healthcare

Marina Altfrid, Philip Neumann

This paper provides a brief overview of whether blockchain could be a promising methodology for creating a healthcare ecosystem. The healthcare sector is traditionally conservative and slowly adapting technology. However, the current times have ushered in new blockchain technologies that are transforming healthcare services.

We regularly publish our research on Medium. Follow us to stay up to date!
Study on the programmable Euro
Exploring the technical and economical implications of a programmable Euro

- >70-page study commissioned by the Finanzplatz München Initiative (fpmi)

- Addressing the topic programmable Euro - a blockchain-based form of the euro enabling programmable and automatable payments

- The study sets out how DLT-based payment systems and a programmable Euro can promote innovative business models for the real economy and the financial sector

- Goal of the study is recommending actions to strengthen Germany as a financial centre
Education

DLT Talents (DLTT)
An education program empowering female innovators for leadership in the blockchain space.

- Blockchain has given us an opportunity to make the world more equitable. Unfortunately, in recent years there has been a lack of female innovators in the space. The mission of our DLTT program is to change this.

- Participants join an 18-week program, free of charge, which is a mix of mentoring and self-study. Participants share what they learn with their peers in bi-weekly zoom meetings, make new connections in the DLT field and get hands-on experience.

1800+ Applications
30+ Countries
350+ Participants

Project Partners:
DeFi Talents
An education program empowering talent for leadership in the decentralized finance space.

› We have designed an 18-week long program that will help ambitious and young career starters to break into the decentralized finance (DeFi) ecosystem. Our goal is to guide the way for innovators to become entrepreneurs, technologists, lawyers, investors, or multiplicators in the surging DeFi space.

› Participants join an 18-week program, free of charge, which is a mix of mentoring and self-study. Participants share what they learn with their peers in bi-weekly zoom meetings, make new connections in the DeFi field and get hands-on experience.
Master in Blockchain & Digital Assets (MSc)

A post-experience master program for business professionals that want to take their career to the next level.

- The seven modules include basics of blockchain technology, crypto assets and smart contracts, future financial markets, blockchain regulation and law, smart contract bootcamp, blockchain strategy and blockchain in business.

- Highlights include a blockweek in Zurich and Zug, the crypto valley, students build their own Bitcoin Lightning Node at home, gaining access to the AI lab, close affiliation with the Frankfurt School Blockchain Center, professors with vast experience in crypto, digital asset and money-related domains will lecture.

Programme start: 8 November, 2022
Duration: 4 Semesters | part time
Degree: Master of Science (MSc) | 60 ECTS

157+ Applications
10+ Countries
25+ Participants
Digital Assets: Seminar on Blockchain and Digitization
Executive training program in collaboration with ifb group.

- Considering the pressing importance of both digitization and blockchain technology and the busy schedules of executives we regularly host seminars making difficult topics easy to understand, preparing leaders for the age of digitalization.

- Participants earn a certificate of completion, which can be submitted to by the German Financial Market Authority.

**Blockchain Basics**
The course begins by introducing the basics of blockchain technology including smart contracts, tokenization and custody.

**Regulation**
One of the four blocks is dedicated to analysing the regulatory environment, including IT governance, national laws and supervisory requirements.

**Networking**
Dedicated networking sessions enable the participants to expand their community.

**Business Cases**
Decentralized structures allow for cooperation among different actors (e.g. humans, machines, sensors). Participants learn about use cases from experts in their industries.

**Colloquium**
Participants must prepare a final colloquium to showcase their understanding of the material covered during the seminar.
The Crypto Assets Conference has been hosted by FSBC since 2018. Considering all the exciting developments happening in the blockchain space this conference give participants an opportunity to share what they are working on and network with attendees, from start-ups, leaders in the finance sector, and representatives of the public sector.
The Digital Euro Association (DEA) is a (non-profit) think tank specializing in central bank digital currencies (CBDCs), stablecoins, crypto assets, and other forms of digital money.

The DEA’s mission is to contribute to the public and political discourse on the digital euro through research, education, and by developing a platform and community.

The Frankfurt School Blockchain Center is founding member and partner of the DEA and various FSBC employees are part of the DEA Board and executive team.
The International Token Standardization Association (ITSA) is a non-profit organization and special interest group aiming to develop and implement comprehensive market standards for identifying, classifying, and analyzing cryptographic tokens.

ITSA provides clarity and transparency for traditional financial institutions by bringing order to the chaotic DeFi and security token markets.

The Frankfurt School Blockchain Center is founding member and partner of ITSA and various FSBC employees are part of the ITSA Board.
Collaboration

DEC | Institute

DLT Education Consortium - Online Certifications for Blockchain, Digital Assets & Web3 Professionals

› Holistic, up to date, and secure online examination 24/7/365, covering different professional disciplines around DLT, blockchain and digital assets

› Active members of the DEC launch and distribute the certificates in their region and can join the DEC’s committees to shape certification standards and knowledge

› The DEC works with enterprises to ensure that its certifications match the expectations of industry and enable certificate holders to show distinction in the professional environment

Certificates

Chartered Blockchain Expert®
Chartered Digital Asset Analyst®

Active Members:

Hedera Hashgraph
web3 foundation
Ripple
Thinking about becoming a partner of the Frankfurt School Blockchain Center? We offer various partnership packages:

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<tr>
<th></th>
<th>Gold Partner</th>
<th>Silver Partner</th>
<th>Bronze Partner</th>
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<tbody>
<tr>
<td><strong>Mentioned as partner</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>at events and on the FSBC</td>
<td>25,000€ per year</td>
<td>15,000€ per year</td>
<td>10,000€ per year</td>
</tr>
<tr>
<td>website and in the FSBC Newsletter</td>
<td></td>
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<tr>
<td><strong>Introduction of interns, working students and graduates</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Tickets to FSBC events</td>
<td>15 tickets p.a.</td>
<td>10 tickets p.a.</td>
<td>5 tickets p.a.</td>
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<tr>
<td><strong>Publication of job advertisements in the FSBC environment</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td><strong>Placement as speaker at events</strong></td>
<td>✓</td>
<td>✓</td>
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<td><strong>Mentioning of partner content via social media</strong></td>
<td>✓</td>
<td>✓</td>
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<tr>
<td><strong>Exclusivity</strong></td>
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In addition to our standardized partnership packages we offer individual services:
If you are looking for something specific that is not mentioned here please get in touch with us and let’s chat!

**Education**
We organize, host, and execute workshops as well as routine educational programs.

Our “Talents” programme series including DLT Talents, DeFi Talents, and soon NFT Talents can help you and your team get up to speed.

**Quantitative Research**
Research conducted by the FSBC, such as surveys, interviews, etc. We specialize in gathering meaningful insights and data from blockchain experts in various fields, analyzing them and presenting our findings. Let us know more about which of the exciting developments in the Blockchain ecosystem you would like to learn more about!

**Exploratory Study/Research Paper**
Creation of extensive research papers, reports and studies based on qualitative data combined with in-house expertise of the FSBC research team.

**Featured Interview**
Is your organization getting involved with DLT in an innovative way and you would like to spread the word? Just like us, our vast audience is always keen to hear about new developments in the blockchain space. We routinely do interviews with industry leaders and publish articles based thereon.

**Coaching**
Looking to get your team ready to apply emerging technologies? Get in touch with us about a custom coaching session.

**Consulting**
Need another opinion on matters related to blockchain, DLT, CBDC’s or something similar? ...

**Speaking**
Are you hosting an event or a conference and need a speaker to help the audience grasp the concepts surrounding decentralization, etc?
THANKS FOR YOUR ATTENTION
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