

# BigTangle

Cryptocurrency Protocol  
for the Internet of Value



## *The intelligent evolution of blockchains*

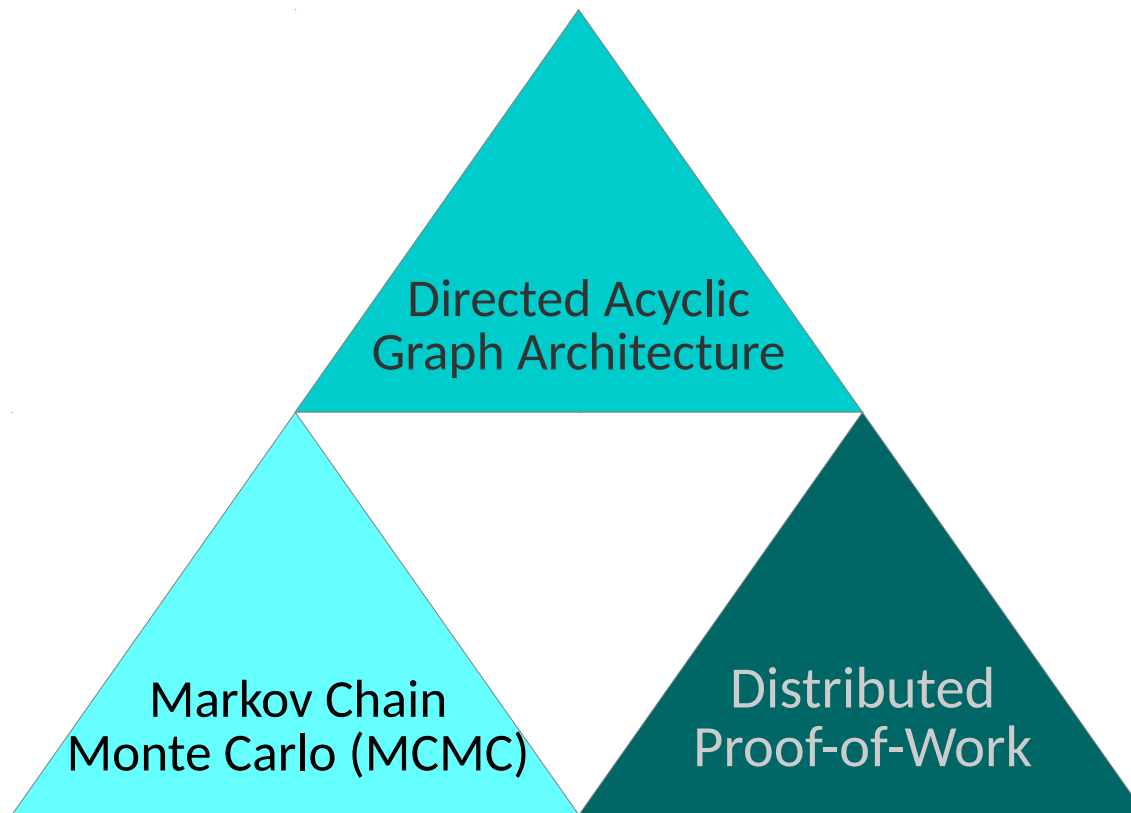
BigTangle is a cryptocurrency network extending the directed acyclic graph architecture with Markov Chain Monte Carlo (MCMC) as consensus algorithm and distributed Proof-of-Work.

Through the use of industry standard big data technology in conjunction with the parallelizable architecture, BigTangle is a successor to conventional block chains in the sense that it generalizes existing blockchain and smart contract architectures and makes them usable on a global scale.

BigTangle focuses on economically important key use cases. Custom token issuances, market exchanges, mining and smart contracts are supported.

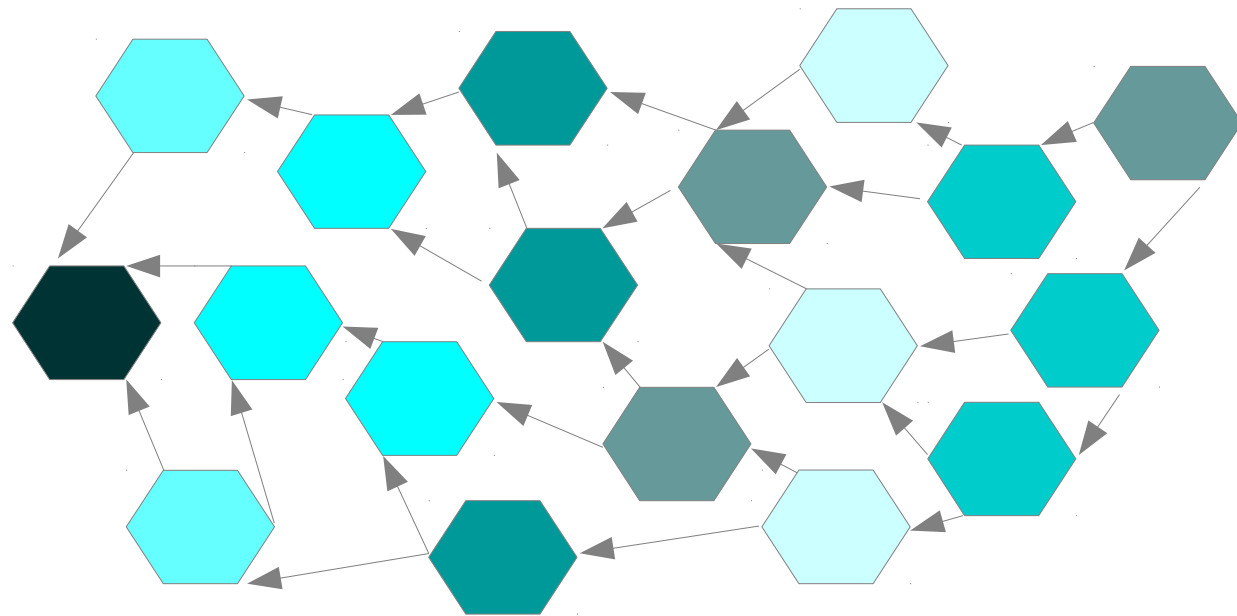
Key Features: Ease of Use, Completely Feeless, Real-Time Transaction Confirmation, Infinite Scalability, Smart Contracts, Permissionless, Trustless, Decentralized App, Distributed Proof of Work and Quantum Security.

# *Triple security, decentralization, scalability concept*



## *Maximum security, decentralization, scalability by integration into a genealogical tree*

The multidimensional relationships between the blocks in the BigTangle, comparable to a genealogical tree, guarantee a maximum of security, decentralization and scalability.



In BigTangle, only the mining reward blocks are forced to be a blockchain.



## *Comparison with other cryptocurrencies*

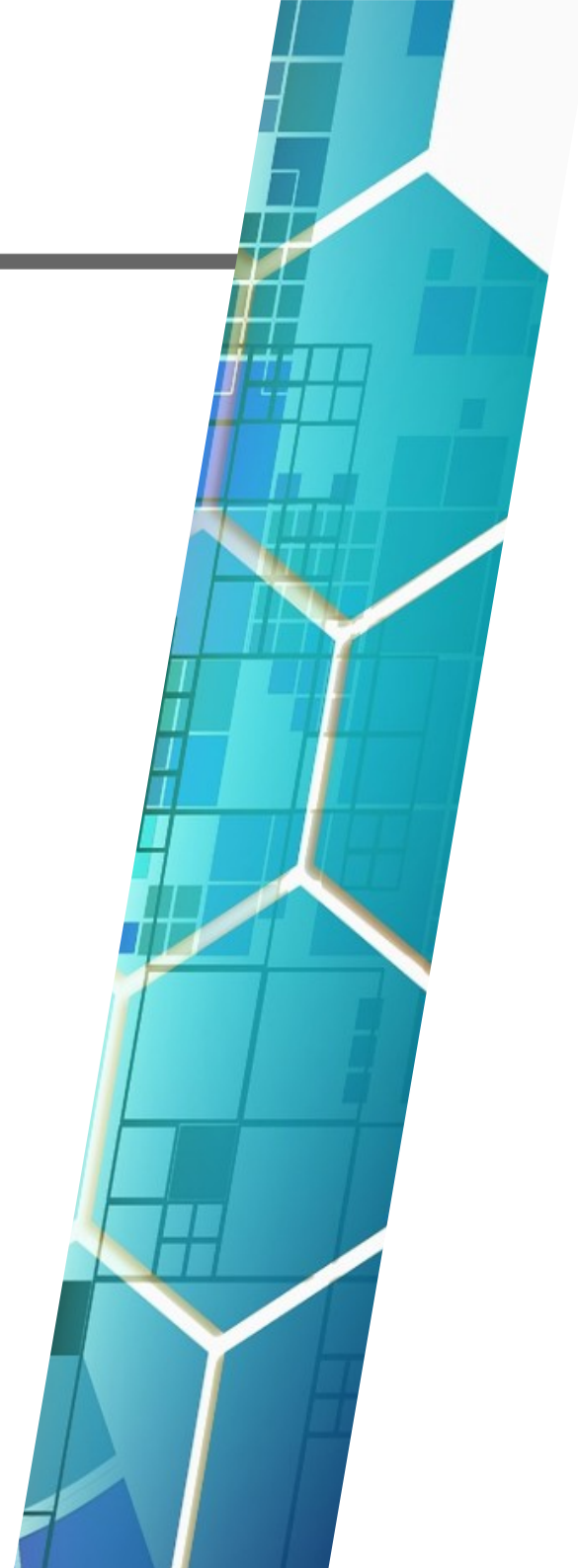
BigTangle is a successor to Bitcoin and Ethereum with blockchains.

BigTangle inherits all functionalities provided by Bitcoin and Ethereum. They are special cases of BigTangle. The multidimensional BigTangle can be reduced to a one dimensional blockchain if it is required.

BigTangle implements container technology for smart contracts written in any computer language, e.g. Ethereum VM.

BigTangle realizes a variety of economically important key use-cases: Beyond the decentralization of payment processing, the network can be used as a base service layer for the decentralization of markets in general, transfer and ownership management, authenticity proofs for assets of any kind or supply chains and ownership management.

As a protocol for the internet of value, The BigTangle software can be deployed in private or other permissioned environments, allowing one to run private, owned BigTangle networks with different rule sets. BigTangle defines a protocol and interface for value transfers from private BigTangles to the public or other private BigTangles and vice versa.





## *Focus on economically important use cases*

---

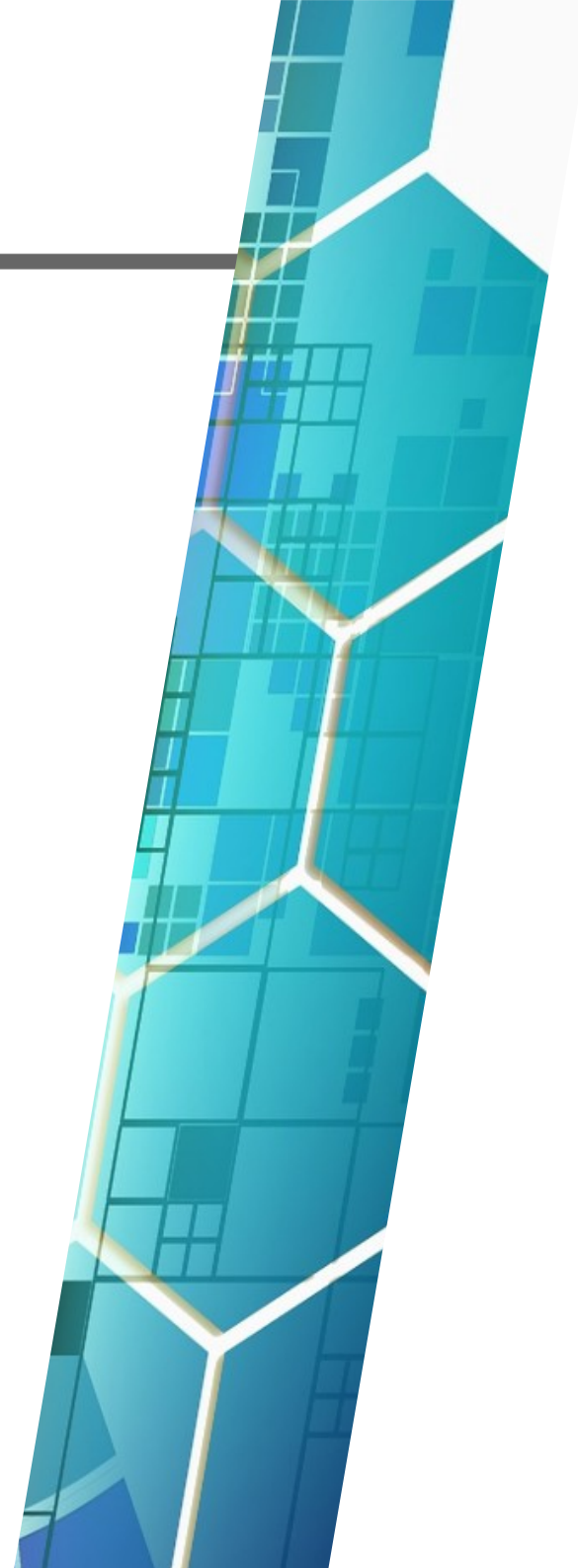
Practical use cases allow the token to derive value and mainly include the substitution of various currently costly and trust-based technical processes.

In the following, some important use cases are presented as part of BigTangle's holistic interpretation of the Internet of Value.

# *Highly valuable use cases*

## A. Payment

01. A simple and important use case is payment processing. By providing scalable infrastructure, BigTangle enables the global transaction volume to be processed in one network.
02. Most importantly, this offers infrastructural cost advantages by eliminating complex and costly processes of traditional payment processing for banks, companies and general populace. BigTangle is the only custom token for companies and banks that enables the transfer of value and Fiat currencies on a global scale.
03. Worldwide, payments worth \$180 trillion are made each year, with the total cost of processing exceeding \$1.7 trillion per year.
04. Note that the network hashing power is approximately proportional to the BigTangle internal token market cap and is therefore decoupled from actual transaction volumes, theoretically resulting in downwards unbounded energy upkeep at the cost of increased confirmation times for constant economic risk. Adequate confirmation times can be achieved on a global scale.

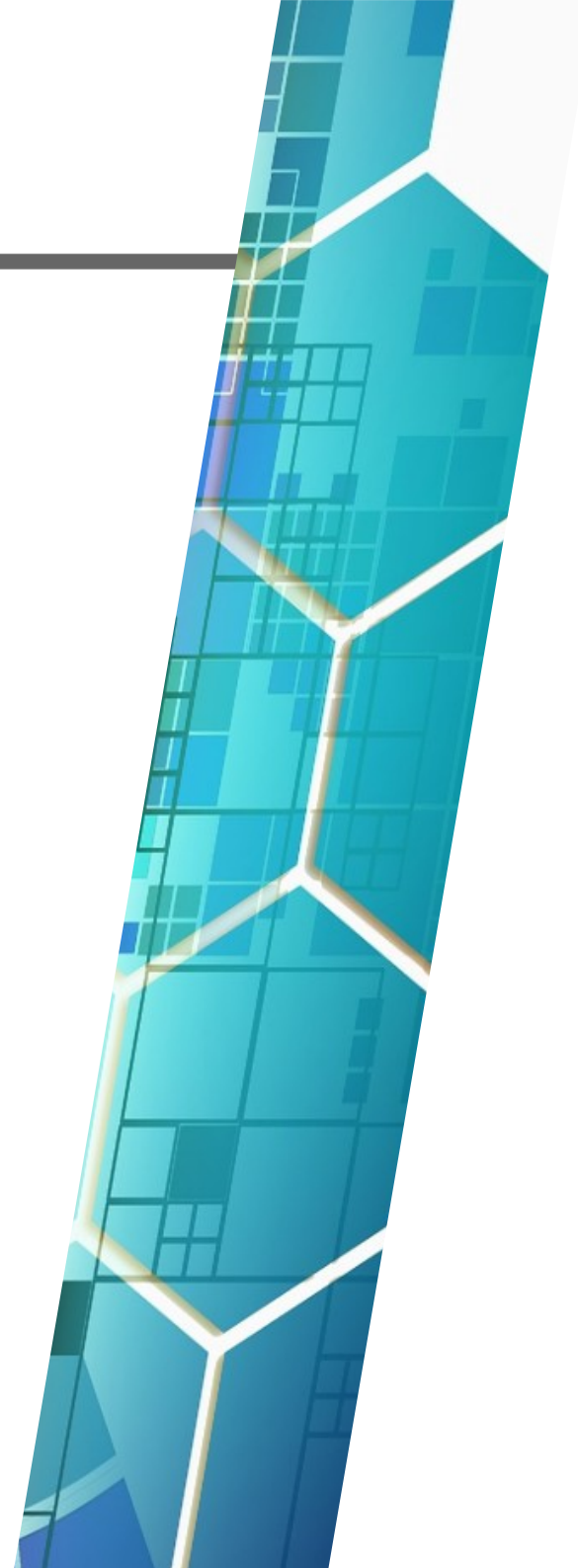


# *Highly valuable use cases*

---

## **B. Stock Markets**

01. Markets for stocks, bonds etc. can easily be realized by creating new token equivalents.
02. Companies can publish stocks and use the BigTangle Network, essentially substituting costly stock exchange processes by the fee less BigTangle processing network.
03. Examples for the largest segments that will be affected are Bonds, Swaps, Derivatives, Commodities, Unregistered and Registered securities, Over-the-counter markets, Collateral management, Syndicated loans, Warehouse receipts, Repurchase markets etc.
04. This results in an value of multiple billions per year.



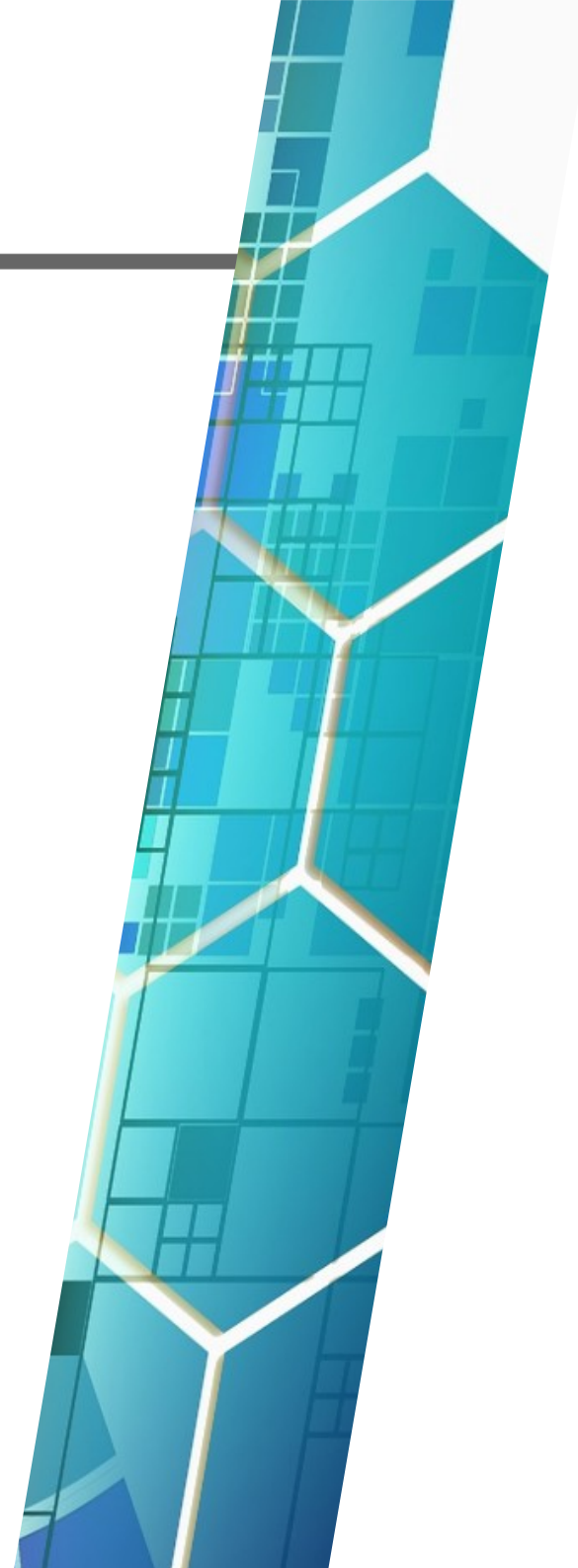


# *Highly valuable use cases*

---

## C. Fiat Money

01. The token issuance protocol can be used to issue bank-backed tokens denoting conventional fiat money.
02. Since the issuance and usage requires no participation in the network, BigTangle is a low cost solution for all parties.
03. Fiat money transactions can then feasibly be processed within seconds on a global scale.



# *Highly valuable use cases*

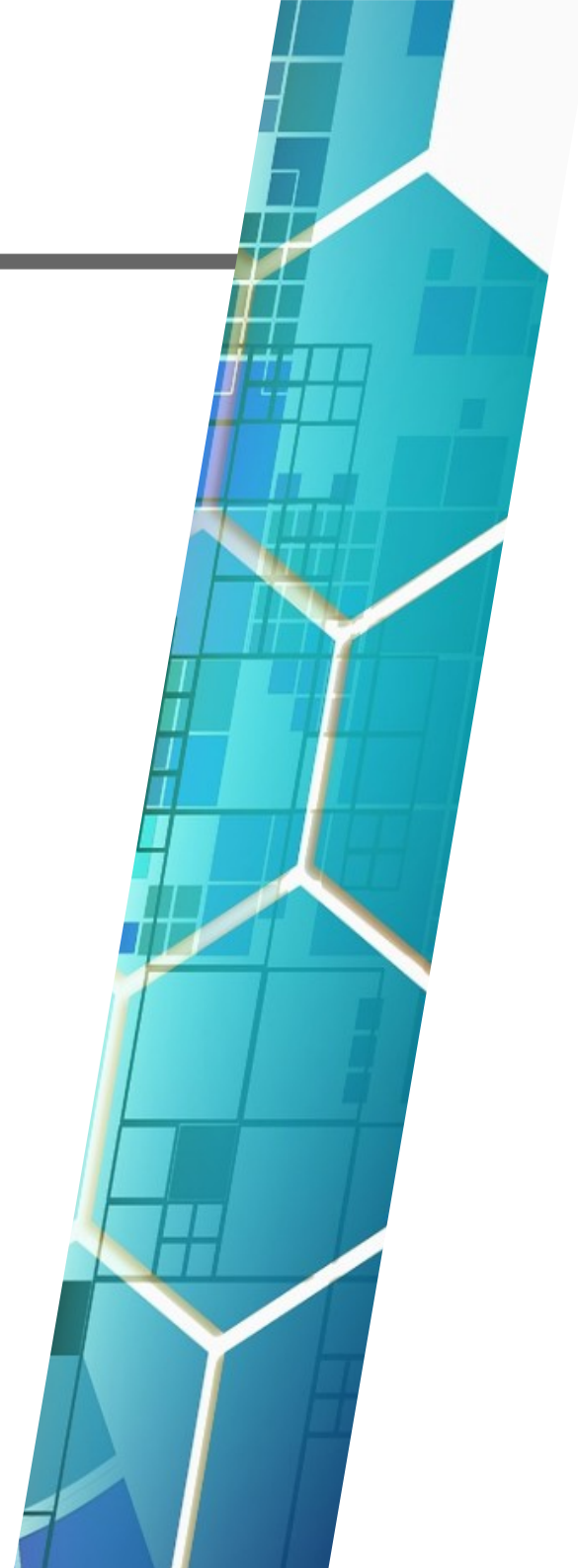
---

## **D. Micro Transaction**

Service fees can now be charged in microdollar range or alternatively via seconds of hashing power due to the departure from winner-takes-it-all, allowing for new business models, e.g. online newspapers with alternatives to commercial advertisement.

## **E. Supply Chain and E-commerce**

01. Assuming suppliers issuing authenticity tokens, it is trivial to track product authenticity via token transfers.
02. This use case extends into classic supply chain management, allowing the trustless tracking of inventories in supply chains.



# Outstanding expertise in all specialist areas



Dr. Jianjun Cui  
**CEO**  
30 years in development  
Big Data, Web Applikation,  
Cloud Computing, Distributed  
Database  
+ Bitcoin



Xiao Mi  
**Core Developer**  
10 years in Development  
Web Applications  
+ Bitcoin



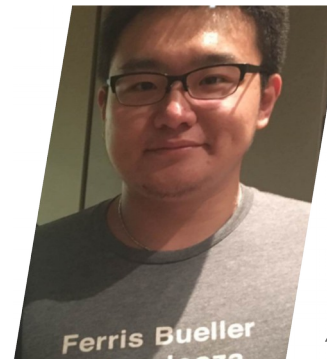
Dr. Pu Zhou  
**Finance + Communication**



Xiaojin Wang  
**Core Developer**  
20 years in Development  
Data Analyst  
+ Data Scientist



Wolfgang Blumenthal  
**Marketing + Organisation**  
20 years Bank- and Insurance-  
Marketing, Venture Capital  
Marketing, Project development of  
sustainable environmental  
technologies



Frank Lu  
**Business Analyst**  
10 years in Development  
Kershner Trading Group  
Akuna Capital

# Outstanding expertise in all specialist areas

---



Dr. Martin Drees  
**Business Analyst**  
30 years in Development  
Distributed Application



Maximilian Lowin  
**UI Developer**  
3 years in Development  
UI Applications



Yang Liu  
**Core Developer**  
10 years in Development  
Web Application + Blockchain



Maximilian Hensel  
**Core Developer**  
3 years in Development  
of Web Application  
+ Bitcoin



Tao Jiang  
**Core Developer**  
20 years in Development  
Web Application +  
Cloud Computing



Kai Cui  
**Core Developer**  
3 years in Development  
of Web Application  
+ Bitcoin

# *Special experts on the advisory board*

---



*Prof. Dr.  
Willi Freeden  
University Kaiserslautern  
Publication:  
Cui-Freeden Statistics*



*Dr. Mike Lee  
Cryptocurrency Expert  
Advisory Board of Fusion*

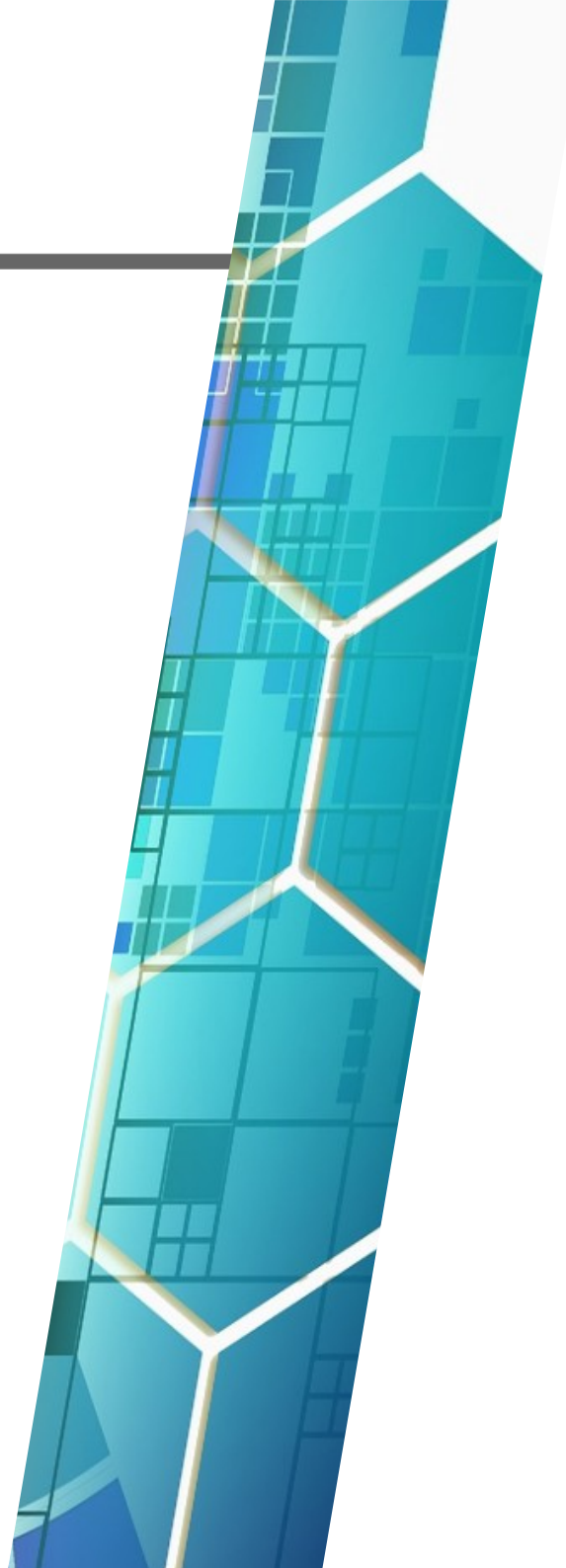


*Max Zhang  
  
10 years in Marketing  
Tsinghua university tsinghua x-  
lab*

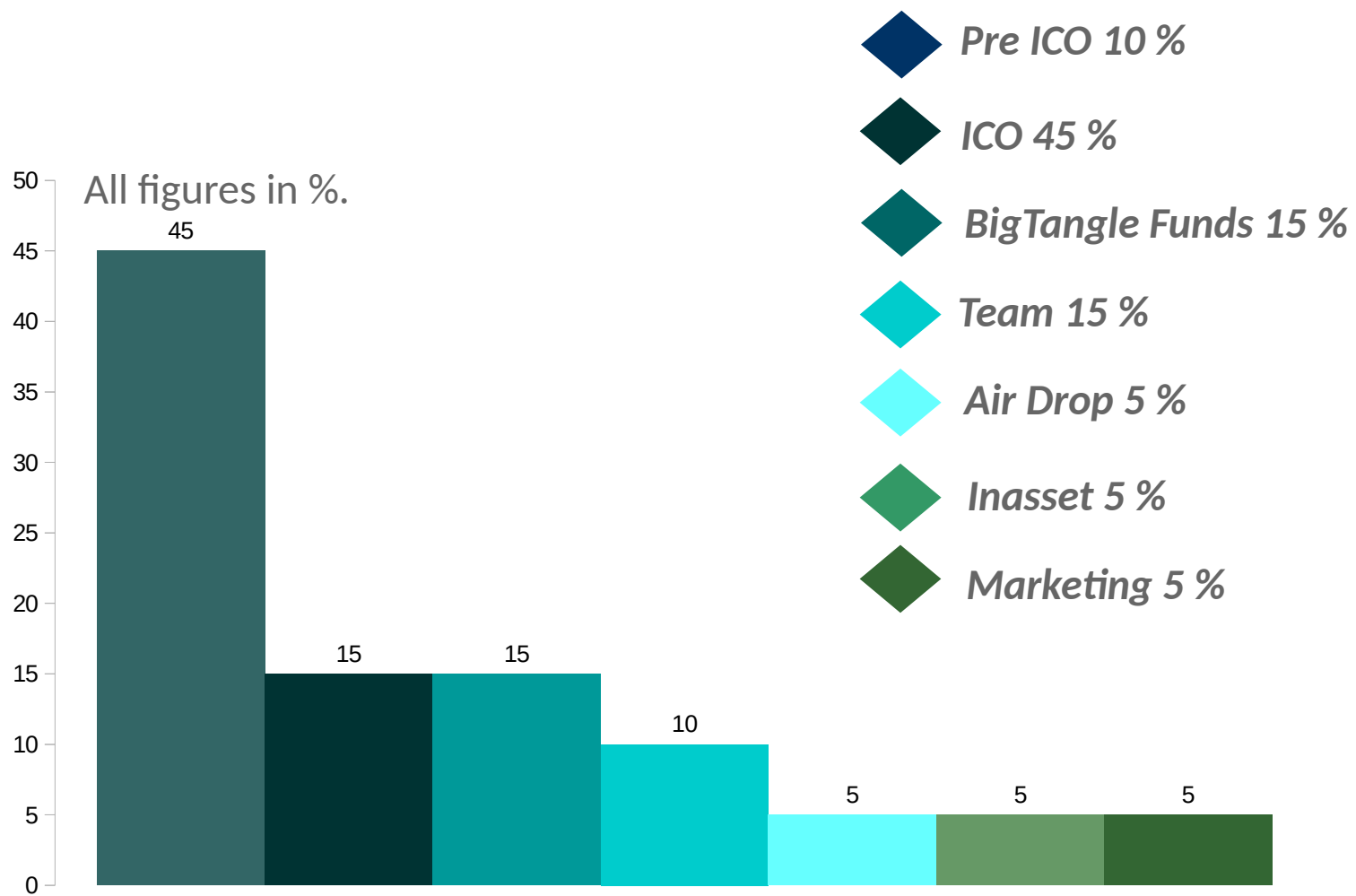


## *Special thanks to Bitcoin contributors*

Aaron Voisine, Adam Mackler, Alexander Lolis, Alex Taylor, Alon Muroch, Amichai Rothman, Andreas Schildbach, andrewtoth, Bennett Hoffman, Carlos Lopez-Came, Carsten Otto, Chris, cyberzac, Dave Collins, dexX7, Diego Basc, elbandi, eleetas, En-Ran Zhou, Erik Tierney, Fireduck, freak, Gary Rowe, Giannis Dzegoutanis, Glenn Marien, GreenAddress, gubatron, Harald Hoyer, Jakob Stuber, Jameson Lopp, Jarl Fransson, Jim Burton, Jiri Peinlich, Johnathan, Jonny Heggheim, Justas Dobiliauskas, Kalpesh Parmar, Ken Sedgwick, Kevin Greene, Kirill Vlasov, Kosta Korenkov, kushti, langerhans, Loco, Manfred Karrer, Marc-André Tremblay, Martin Zachrison, matija.mazi@gmail.com, Matt Bogosian, Matt Corallo, Michael Bell, Michael Bumann, Mike Hearn, Mike Rosseel, Miron Cuperman, monk, Mora Zyx, mruddy, ollekullberg, Oscar Guindzberg, Pavol Rusnak, peacekeeper, Peter Dettman, Peter Stockli, Peter Todd, Piotr Włodarek, Richard Green, Robin Owens, Ross Nicoll, Sean Gilligan, Sebastian Ortega, Simon de la Rouviere, Simon Vermeersch, Stephen Reed, troggy, Tyler Houlihan, Willem Noort, Will Shackleton, Wojciech Langiewicz, Xiaofeng Guo, Ximo Guanter



# Distribution of initial coin supply





## ICO (proposal)

---

The ICO takes place on the Ethereum Blockchain. The design complies with widely used token implementation standards. This makes it easier to use existing solutions such as Ethereum Wallet or Metamask.

The ICO starts on September 15, 2018 and lasts about 80 days.

The total initial offering consists of 1 trillion BigTangle tokens, 45% of which are available during the ICO. The rest is frozen for one year and held by the BigTangle foundation .

In the first phase, which lasts 120 hours, 5% of the total initial token is distributed to all issued Ethereum tokens.

In the second phase, which consists of 80 periods of 23 hours, 0.5% of the total IPO is distributed per sales period.



## Usage of ICO

---

01. The majority of crowdsale funds and unsold tokens will be used for the further development of BigTangle, public nodes, marketing and use cases.
02. Binding information on the ICO is available on the website <https://www.bigtangle.net/>.
03. Following the introduction of the BigTangle Mainnet, approximately 2% of total coins are proposed to be issued each year as mining rewards.

# Roadmap, *BigTangle* started on May, 2017

---

01.07.2018

Start of internal testnet,  
Going public and building community,  
PRE-ICO: up to 10% BIG  
are prepared for initial investors

until  
15.09.2018

Simulation tests: Running test agents for automated tests  
with large numbers of clients. frequent updates for test clients  
and server nodes Performance, load and attack tests,  
GraphX implementation

from  
15.09.2018

Release of Testnet with GraphX implementation.  
Source will be made available in Github.  
Public ICO for BIG on Ethereum is started.

15.11.2018

Production Test: Production software release  
for testing in Testnet

15.12.2018

**Mainnet launch**