

# PYCOIN

AN INFINITELY-SCALABLE DECENTRALIZED ZERO-KNOWLEDGE PLATFORM FOR SECURE SMART CONTRACTS AND PRIVACY-PRESERVING DECENTRALIZED APPLICATIONS

## THE PROBLEM

Since in Ethereum, the EVM (Ethereum Virtual Machine) is a Turing complete language, so it's not feasible to static analysis, i.e. we cannot calculate the upper bound on the calculations program will make before its execution, so each program must be provided with gas (which is paid for in Ethereum's unit of account, ether, to the miner of block containing the transaction) to place the counter and avoid infinite loops. With Turing incomplete programming language like Simplicity, static analysis allows the protocol to place limits on the amount of computation a transaction can have, so that nodes running the protocol are not overly burdened. Furthermore, the static analysis can provide program creators with a general-purpose tool for verifying that the program fits within the performance and security parameters.

## OUR SOLUTION

Pycoin is a decentralized application for writing, testing and deploying mathematically verifiable secure smart contracts in Python as source programming language and Simplicity as the target language that behave exactly as intended. Pycoin ensures that no run time errors or intentional/unintentional bugs can be used as exploits to steal funds and corrupt Pycoin smart contracts.

Owing to its Turing incompleteness, Simplicity is amenable to static analysis that can be used to derive upper bounds on the computational resources needed, prior to execution. While Turing incomplete, Simplicity can express any finitary function, which we trust is enough to build useful "smart contracts" for blockchain and blockchain-free decentralized applications.

Pycoin platform is being deployed on synchronized binary decentralized networks of DAG-based forked chain of XRB/Nano capable of processing 7,000 transactions per second and DexOS, a realtime unforkable blockchain capable of processing 2,000,000 transactions per second.

## APPLICATIONS

1. Privacy-preserving currency and confidential global payment system
2. Unmanned decentralized exchanges (UDEXs)
3. Crypto darkpools and automated hedge funds
4. Realtime video communication-capable anonymous web infrastructure

## TOKEN STRUCTURE

Total coins planned to be launched:

**62,000,000,001**

Maximum Supply (Hardcap): **62,000,000,001**

Reserved for developers & founder team:

**9,000,000,000**

Reserved for Bounty Hunters: **2,000,000,000**

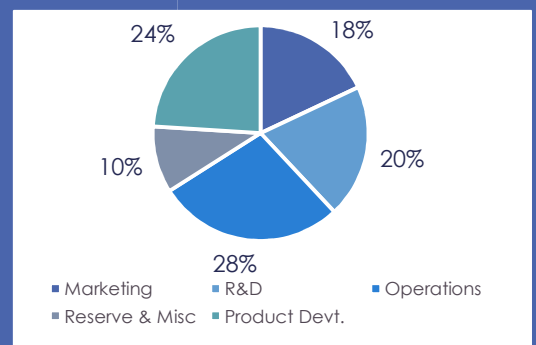
Reserved for Controlled Emission (calibrated minting) to reward peer-to-peer random users-payment validators: **26,000,000,001**

## TOKEN SALE

Start: 24th March 2018

End: 30th March 2018

## USE OF FUNDS



## THE TEAM

Pycoin is a project of Cohmology Labs. Have a look at our team at:

[www.cohomologylabs.tech](http://www.cohomologylabs.tech)



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[www.t.me/joinchat/AAAE1D7jciV2TkouwTB/](https://www.t.me/joinchat/AAAE1D7jciV2TkouwTB/)

[www.pycoin.io](http://www.pycoin.io)