

# **GPUCoin zk distributed computing future proof video protocol Dapps platform with zk-snarks Proof of Compute and Streaming cryptocurrency Blockchain**

Open Source decentralized censorship resistant network allowing anyone to rent their excess bandwidth & GPU compute, while providing a secure compute connection for those in need

---

GPUCoin network protocol team

February 10, 2018

GPUCoin Foundation

# Primer

---

# GCN GPUcoin Peer-to-Peer Dapp Network

GPUcoin foundation is developing GPUcoin NETWORK an Open source software, powering a Decentralized Network of live-streaming & distributed computing p2p Dapp Nodes.

GCN GPUcoin Network acts as a marketplace, its Open Source software allows anyone to join the network both

- as a provider selling unused network traffic, GPU, CPU
- as a customer buying live-streaming & distributing computing service

from other GPUcoin GCN Network providers.



# GPUCoin Peer-to-Peer Network

GPUCoin GCN Network is based on a complex architecture revolving around P2P, Blockchain, Smart Contracts, State Channels, etc. . .

token based, Peer-to-Peer blockchain

Read our white-paper for a detailed description on how the protocol will enable the creation of a completely decentralized live-streaming & zk distributed computing network, powered by decentralized micro-payments using crypto-currencies Bitcoins, ETH & block-chain.

# Centralized vs Decentralized

Facebook/Twitter	Hoot decentralized
 A diagram of a centralized network. It features a central blue node connected to six other blue nodes arranged in a circle around it. All connections are made through the central node, representing a hub-and-spoke model.	 A diagram of a decentralized network. It features seven blue nodes connected in a mesh-like structure. Each node is connected to multiple other nodes, and there is no single central node, representing a peer-to-peer network.
<p>Focus on Shareholder benefit</p> <p>Your private data in everyone hands</p> <p>Simplified access to your data</p> <p>High profit margins</p> <p><b>Heavily censored</b></p> <p>Not fault tolerant</p> <p>not Peer-to-Peer</p>	<p>Focus on Network participant benefits</p> <p>Your Private data is Decentralized</p> <p>Restricted access of your data</p> <p>Perfect competition sets fair price</p> <p><b>Censorship-free</b></p> <p>a dense Byzantine fault tolerant</p> <p>Peer-to-Peer network</p>

# GPUCoin Values



## Decentralized

Ininitely Scalable,  
built using P2P  
architecture.  
Without single point  
of failure no central  
company or server.



## Open source

All source code is  
always visible,  
empowering  
contributions &  
100% transparency.





## Designed for privacy

Powerful encryption,  
Node Reputation,  
Layered Protection  
Protocols, etc.. All  
working to help you  
safely & privately  
participate in the  
Network.

# Evolution of internet & crypto currencies

**Netscape moment:** *Cambrian* explosion of crypto-currency Dapps

			
Phase	Internet	Crypto-currency	Reach
Protocol	TCP/IP, SMTP	e-gold, digi-cash, bitgold, <b>Bitcoin</b> , Ethereum	1M People
Infrastructure	ISPs, lay fiber	<b>Exchanges</b> , secure storage	10M people
Consumer Interface	Browser	User controlled <b>btc/eth wallets</b>	100M people
Decentralized Dapps	Web 2.0	Finance 2.0 Dapps	1B people
Fat Protocols	Web 3.0	FileCoin, <b>GPUCoin</b> empower next-gen Dapps	2B people

Protocol layers like **FileCoin** & **GPUCoin** will form the next Web 3.0

# IPCN : InterPlanetary Compute Network



Uber/Airbnb for GPU accelerated distributed computing

- Build **TeraFlop/PetaFlop super-computers** on the GPUCoin Inter-Planetary Compute Network(IPCN)
- architecture revolving around fault tolerant redundant P2P, Block-chain, Smart Contracts, State Channels
- a platform to create new compute primitives using any Turing compute programming language
- use container technologies such as docker & kubernetes to efficiently distribute & use excess unused GPU accelerated compute
- powered by crypto-currency micro-payments GPUCoins GPCs
- **zk-Snarks, homomorphic encryption & indistinguishability obfuscation from functional encryption** for secure trusted **Proof of Compute(PoC)**, better suited for parallel tasks than serial tasks





Decentralized P2P GPUCoin GPC nodes will earn crypto-token incentives called GPUCoins GPC

- for contributing their **GPU** processing power & bandwidth in the service of mining, GPU compute, encoding & distributing video using the GPUCoin live virtual-machine
- for participating in the GPUCoin IPCN **InterPlanetary Compute Network** & security protocol
- much like miners in Bitcoin & Ethereum earn token for mining the **cryptocurrency** in exchange for **breaking complex math puzzles**
- GPUCoin tokens are **paid API keys i.e., utility tokens** NOT securities you can redeem GPUCoin GPC tokens for GPU compute time/bandwidth on the decentralized GPUCoin compute IPCN™ network

## Conclusion

---



IPC�™ Get the GPUcoin GPC tokens from



<http://onhoot.com/tokensale>



Questions?