

Blockchain - make Open Source Great Again



<https://spacemesh.io>

<https://github.com/spacemeshos/go-spacemesh>

Aviv Eyal

ae@spacemesh.io

[@teamspace](#)

Where are we now?

- The digital age - everything is digital and all products and services are networks
- GAFA - the 4 Horsemen of the Apocalypse are here - a global tech oligarchy
- Rent extraction business model from property on platform
- Opaque platforms - an unlevel playing field for startups and small companies
- Creators are getting screwed - artists, publishers, curators, contributors, small businesses
- Users have no control over their data and privacy
- Lack of competition and monopolization
- **Is there a better future for humanity?**



The “aha” moment ?!



Crypto... is just like Star Wars!

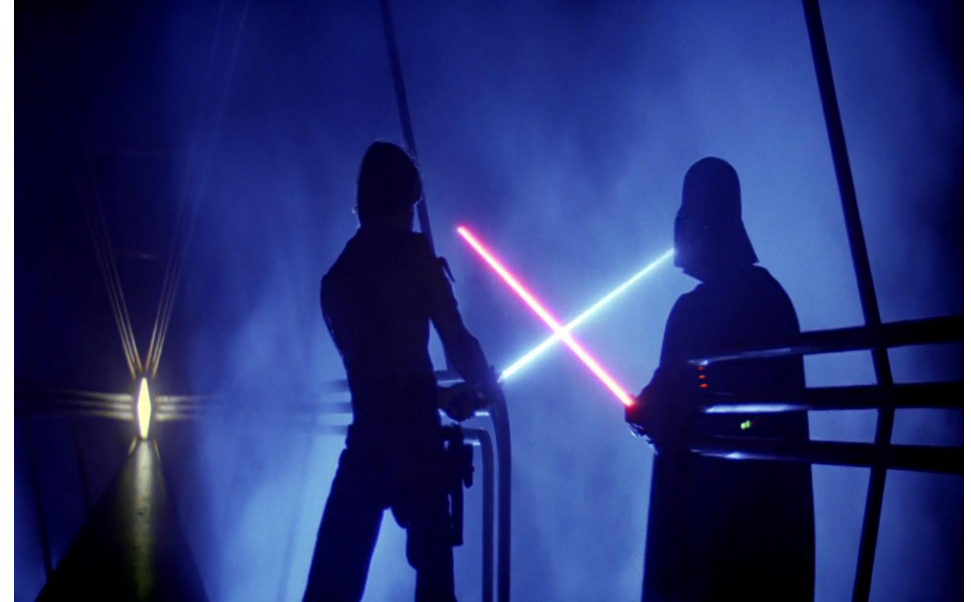
- Cryptocurrencies mania has captured the world's imagination
- What's the big deal? The future of capital, work and social formations. The Internet of Value...
- There's a war going on with nations - banks, fiat money, taxes, etc...

The dark side...

- Scams, shitcoins, fake ICOs
- Pumps & dumps
- Not Investing - gambling
- Get-rich-quick frat boys mentality

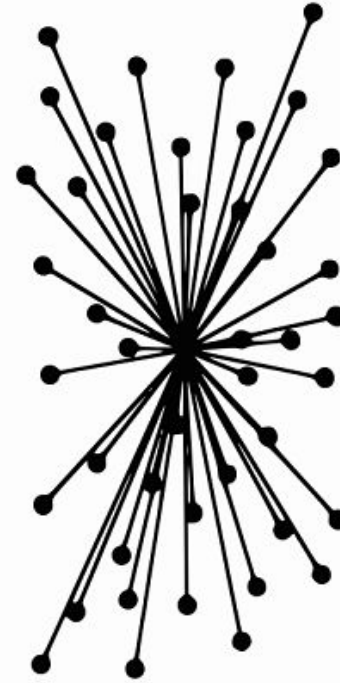
The light side...

- Blockchain tech and tokenization as a force for positive change and decentralization of digital networks



What is decentralization?

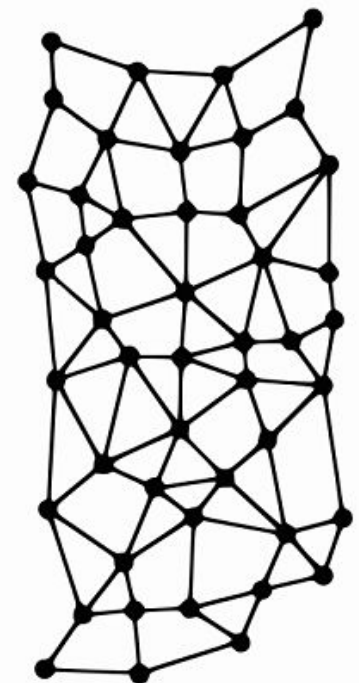
- A different business model for networks
- A more balanced distribution of power between all network participants. governance, profit, rights, rules, penalties
- Apps => Networks => Markets
- Decentralized := centerless - checks and balances between all *participants* each with different interests
 - *Service providers*
 - *Users*
 - *Developers*
 - *Investors*
 - *Creators, Influencers, Curators*
- Wait! wasn't this what the Internet was supposed to give us in the first place? User empowerment, small biz growth?



Centralized



Decentralized



Distributed

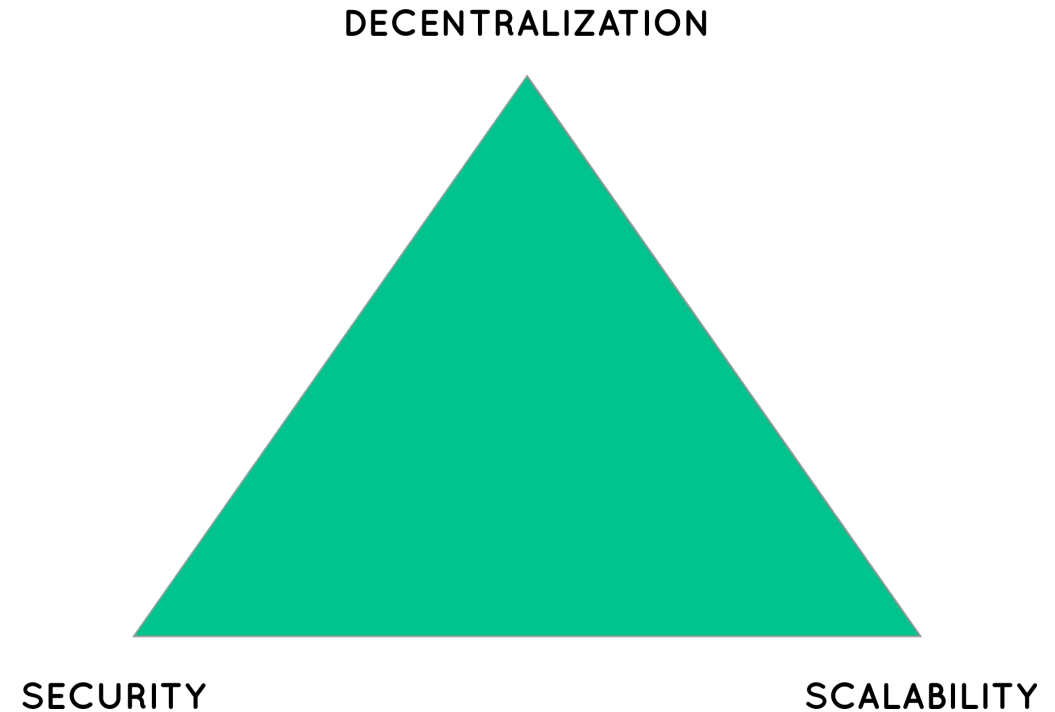


Why Decentralization Matters?

<https://medium.com/@cdixon/why-decentralization-matters-5e3f79f7638e>

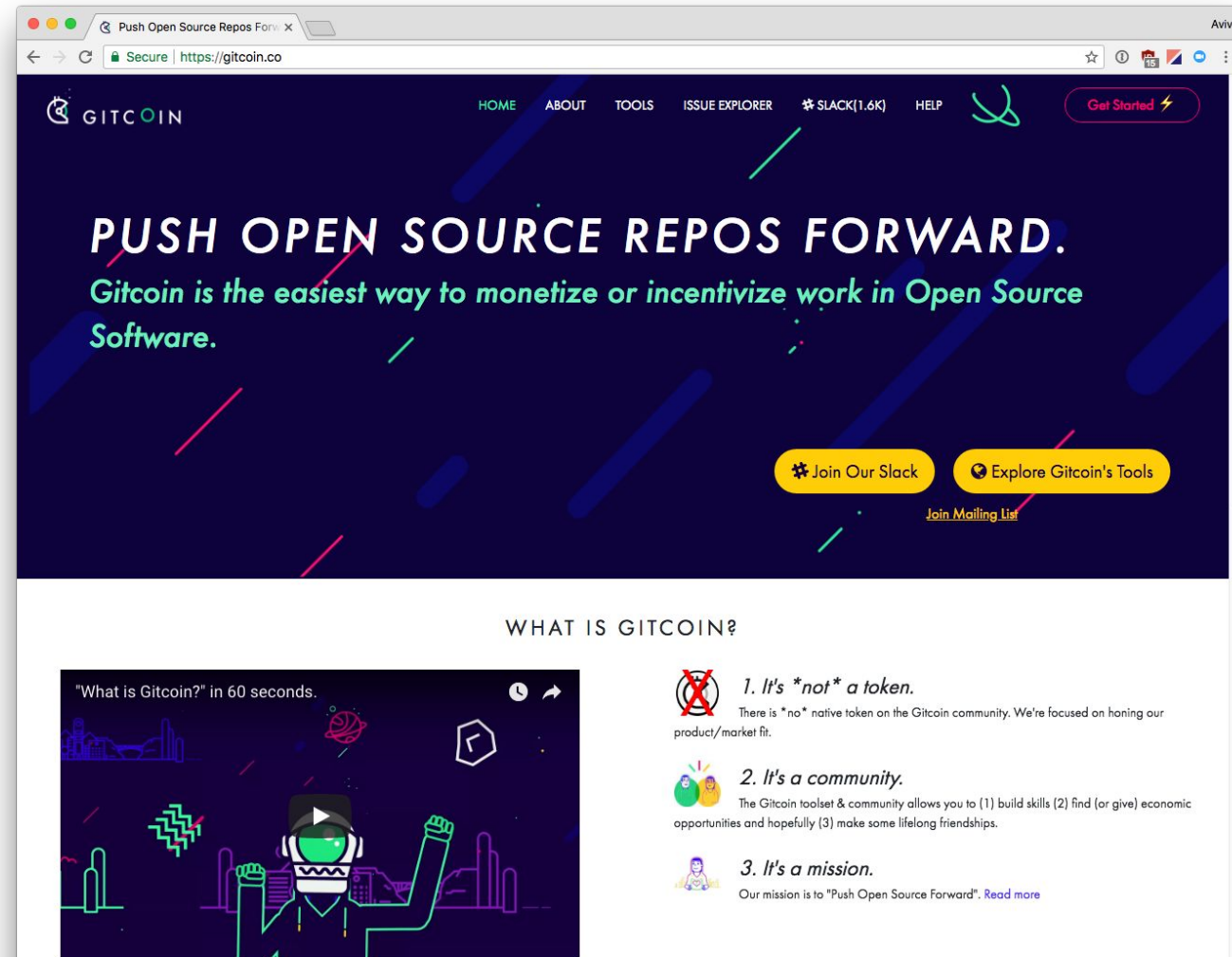
Blockchain is the core tech for decentralization

- Blockchain is the tech for building decentralized systems - communities, economics, markets...
- Agree on algorithms for SOT / canonical data
- Agree on canonical data while trusting no one specific entity
- Honesty majority assumption
- Data := account balances, deployed apps, apps state, etc...
- Tokenization encodes economic value transfer rules between participants via open-source on-chain smart contracts - tx fees, mining awards, penalties, etc...
- Enables deployments of community-specific value exchanges scenarios and different kind of deployments
- The design space: *decentralization, security and scalability* in the permissionless settings



let dapps := DecentralizedApps?

- **What are the killer apps? We don't know yet but...**
- **An alt model for online content consumption**
 - Pay to remove ads from your content
 - Pay publishers for engaging content
 - <https://basicattentiontoken.org>
 - Get paid for promoted content to reach you
- **Micro payments & Mirco tipping**
 - Youtube w \$0.1 / viewer -> creator - more power to viewers and creators and less to the platform
- **Tokenized Spotify** - artists to get more per play, no accounting issues - fair royalties to songwriters
<https://ujomusic.com>
- **Global open source code bounties**
 - <http://gitcoin.co>
 - <https://bountysource.com>
 - <https://beta.bounties.network>



FOSS is key for Decentralization

FOSS is widely recognized as a basis for serious permissionless blockchain projects

- **AUDITABILITY** - Nobody in the community takes seriously a blockchain project with patents, close source and a proprietary license
- **HONESTY** - Only way to ensure that a decentralized network implements its stated crypto economic model and community tokenization rules
- **CENSORSHIP-PROOF** Required to implement the permissionless model - no user registration terms - The build & run from source mentality....

FOSS is key for Decentralization

- Acceleration of the FOSS trends - a shift of value over to **community network-effect** around the project from **software proprietary IP** licensing
- Total freedom to **fork at will** to start your own community with different rules or params
- **Educate.** Best way to learn blockchain tech - the software layer and the protocols can be quite complex.
- Github becomes **the social network for decentralized systems** beyond a mere git code repo - best way to organize devs and non-devs in a community - coding as a social activity.

What's next for Open Source?

- Next-gen Internet protocols: Open Source tokenized protocols that deliver the Internet of Value
Filecoin, Orchid, Whisper, Raiden
- Open Source projects get funded by more easily by finding the right investors, supporters and a community globally
- A model for contributors get a stake in the success of a protocol. Yeah !!! Nothing's wrong with paying the rent and participating in upside. A viable alternative to startup or corp employment.
- **GOVERNANCE** - key role beyond forking... Non-profit foundations govern maintainers and are being checked & balanced by all stakeholders and users - more user-aligned open source projects. The missing piece for full circle governance... Token economics enable this.
- **Github** becomes the social network for Internet protocols development, debate and governance by more powerful **github apps**.

Spacemesh or “Pimp my open source project”

- Blockchain open source infrastructure - decentralized smart contracts computer.
- New consensus protocol based on POST and a blockmesh instead of a blockchain
- Based on theoretical work by prof. Tal Moran and dr. Iddo Bentov
- An attempt to provide a good solution the blockchain trilemma: good tradeoffs between Decentralization, Security, Scalability with the POW ineherent massive energy waste
- Optimized for running on PCs at home using existing free storage space
- Golang - 100% FOSS open source implementation under the MIT license
- Non-profit foundation governs the repo. Stakeholders will govern the foundation.
- For-profit VC backed company supports dev with an enterprise services biz and future ad-hoc deployments biz model
- Actively seeking collaborators and contributors of all types - join us!



Further Explorations...

- Epicenter - <https://epicenter.tv>
- GAFA - 4 horsemen - <https://www.youtube.com/watch?v=XCvwCcEP74Q>
- Why Decentralization Matters? <https://medium.com/@cdixon/why-decentralization-matters-5e3f79f7638e>
- Filecoin - <https://filecoin.io>
- Orchid - <https://orchidprotocol.com>
- Chia - <https://chia.net>
- Attention Token - <https://basicattentiontoken.org>
- Gitcoin - <https://gitcoin.co>
- Spacemesh - <https://spacemesh.io>

Thank you!

Slides soon at @
<https://github.com/spacemeshos>