# Cypherpunks Blockchain Distributed Everything Disruption

Attribution-NonCommercial-NoDerivatives 4.0 International (CC BY-NC-ND 4.0) Licence as described https://creativecommons.org/licenses/by-nc-nd/4.0/

#### A Cypherpunk's Manifesto

#### by Eric Hughes

Privacy is necessary for an open society in the electronic age. Privacy is not secrecy. A privacy is the whole world to know, but a secret matter is something one doesn't want the whole world to know.

If two parties have some sort of dealings, then each has a memory of their interaction. Each privace speeds about the over memory of their new could any speech at all. If many parties speech at all. If many parties speech to restrict any speech at all. If many parties speech to restrict any speech at all. If many parties speech to restrict any speech at all. If many parties speech to restrict any speech at all. If many parties speech to restrict any speech at all. If many parties speech to restrict any speech at all. If many parties speech to restrict any speech at all. If many parties speech to restrict any speech at all. If many parties speech to restrict any speech at all. If many parties speech at all to restrict any speech at all to restrict at a speech at all to restrict at at any speech at all to restrict at at

whom I am speaking or what I am saying or what others are saying to me; my provider only need know how to get the message there and how much I owe them in fees. When my identity is revealed by the underlying mechanism of the transaction,

Privacy in an open society also requires cryptography. If I say something, I want it heard only by those for whom I intend it. If the content of my speech is available to the world, I have no privacy. To encrypt is to indicate the desire for privacy, and tography is to indicate not too much case for pr

#### fight against the realities of information. In fraction does not just want to be free, it longs to be free. Information expands to fill the available storage space. Information is Rumor's younger, stronger cousin; Information is fleeter of foot, has more

We must defend our own privacy if we expect to have any. We must come together and create systems which allow anonymous transactions to take place. People have been defending their own privacy for centuries with whispers, darkness,



For privacy to be widespread it must be part of a social contract. People must come and together deploy these systems for the common good. Privacy only extends so far as the cooperation of one's fellows in society. We the Cypherpunks seek your questions and your concerns and hope we may engage you so that we do not deceive ourselves. We will not, however, be moved out of our course because some may disagree with our goals.

### Cypherpunks et al

### John Gilmore

Activist

John Gilmore is one of the fou the Cypherpunks mailing list, hierarchy in Usenet and is a r Wikipedia

Born: 1955, York, Pennsylvar Awards: Award for Advancer Organizations founded: Ele Solutions



Adam Back British cryptographer

Adam Back is a British cryptographer and crypto-hacker. He i inventor of hashcash, the proof-of-work system used by seve spam systems. A similar system is used in bitcoin. Wikipedia

Born: July 1970, London, United Kingdom

Residence: Sliema, Malta

Known for: Hashcash, Blockstream

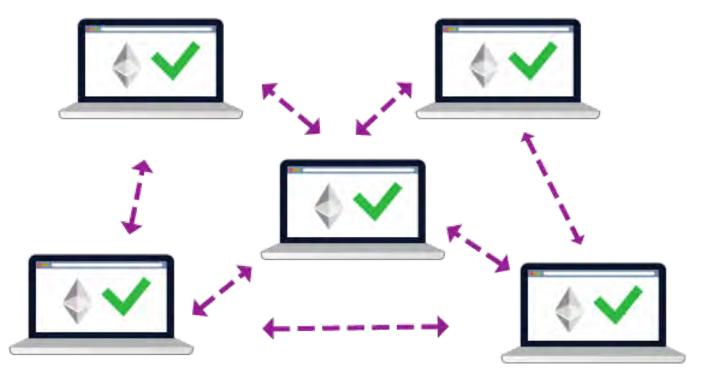


	Bram Cohen, 2015
Born	October 12, 1975 (age 41) New York City, NY, U.S.
Residence	San Francisco Bay Area
ationality	American
ducation	Stuyvesant High School
Alma mater	University at Buffalo
Occupation	Chief Scientist, BitTorrent, Inc
Known for	BitTorrent protocol

### Blockchain



### Blockchain (Ethereum)



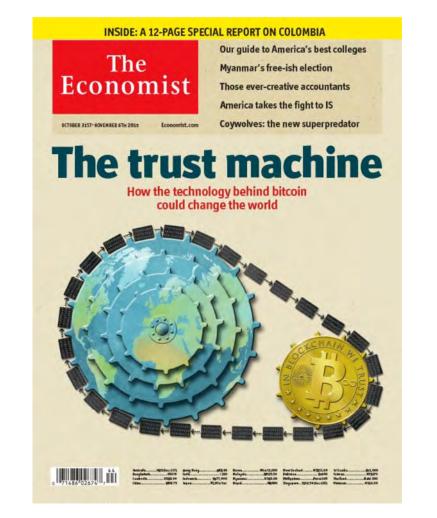
Ethereum Software on each machine creates a mesh and makes them all operate as a single machine

The mesh is called The Ethereum Virtual Machine = The World Computer

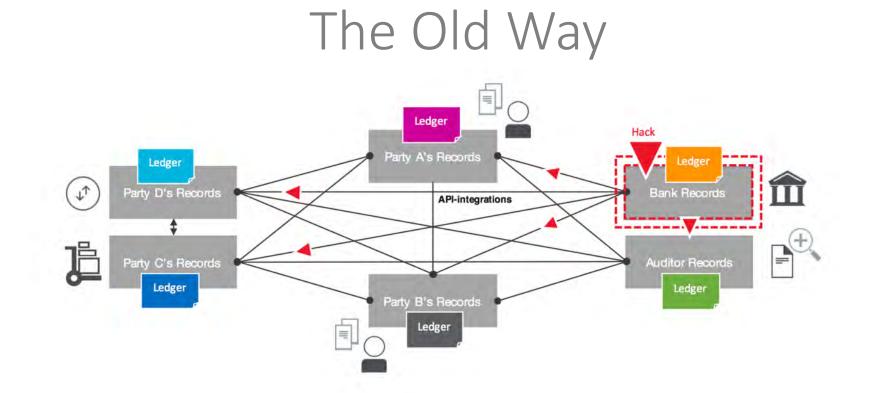
Every machine processes every transaction, keeps a "ledger" and maintains consensus of the truth

It is Decentralized + Immutable + Eliminates the need for trust

### Starts to get coverage in 2015

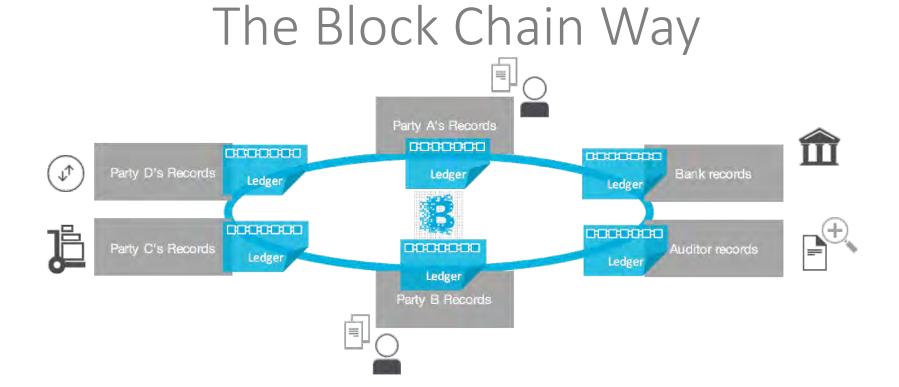


### Blockchain in 3 slides



#### Inefficient, expensive, error sensitive and vulnerable

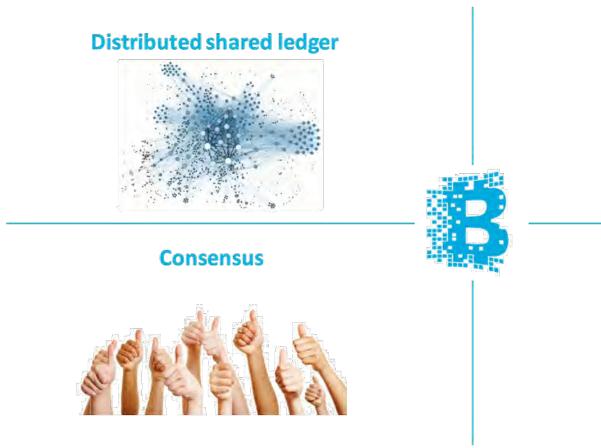
### Blockchain in 3 slides



#### Consistency, efficiency, security and resilience

### Blockchain in 3 slides

### The 4 Key Concepts



#### http://www-05.ibm.com/be/businessconnect/assets/files/Blockchain-A-new-disruption-in-financial-servies.pdf

#### Cryptography

254F1 21B2C809 8833B0CC 3ECAA CB3EE DF038D7F 2AA4D 04143 2571C83 7DED9 B57G 8203E07 696DB 7D7F7 6DD29 0014D 41080C 3154E072 05552 534146DC 8 360929 18BFC 0F130429 90A60B99

#### Smart contracts



### Web 1.0 – Read Only – Ideas

- Web 2.0 Read Write Ideas
- Web 3.0 Transactions eCommerce
- Web 4.0 Distributed Ledger Ownership

### Tokenisation of Ownership

### Not New

### Bowie Bond

#### **DEFINITION of 'Bowie Bond'**

A Bowie bond is an asset-backed security which uses the current and future revenue from albums recorded by musician David Bowie as collateral.

#### **BREAKING DOWN 'Bowie Bond'**

Bowie bonds were first issued in 1997 when David Bowie partnered with Prudential Insurance Company and raised \$55 million by promising investors income generated by his back catalog of 25 albums. The 25 albums, which were used as the <u>underlying assets</u> for Bowie bonds, were recorded prior to 1990 and included classics such as *The Man Who Sold The World*, *Ziggy Stardust*, and *Heroes*. David Bowie used the proceeds from the bond sale to purchase old recordings of his music owned by his former manager. His rights to royalties from wholesale sales in the U.S. were securitized into bonds. In effect, by creating the bonds, he ultimately forfeited royalties for the life of the bond.



### Tokenisation of Currency



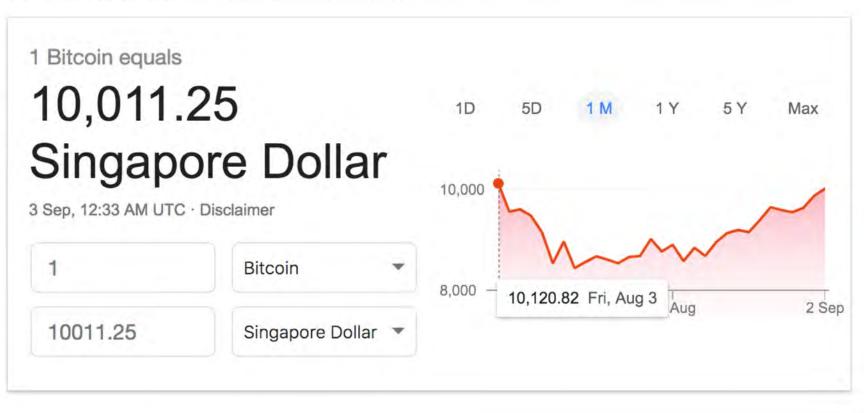
CryptoCurrency



#### History [edit]

#### Main article: History of bitcoin







### Ethereum

### Ethereum

From Wikipedia, the free encyclopedia

**Ethereum** is an open-source, public, blockchain-based distributed computing platform featuring smart contract (scripting) functionality.<sup>[2]</sup> It provides a decentralized Turing-complete virtual machine, the Ethereum Virtual Machine (EVM), which can execute scripts using an international network of public nodes. Ethereum also provides a cryptocurrency token called "ether", which can be transferred between accounts and used to compensate participant nodes for computations performed. "Gas", an internal transaction pricing mechanism, is used to mitigate spam and allocate resources on the network.<sup>[2][3]</sup>

Ethereum was proposed in late 2013 by Vitalik Buterin, a cryptocurrency researcher and programmer. Development was funded by an online crowdsale during July–August 2014.<sup>[4]</sup> The system went live on 30 July 2015.<sup>[5]</sup>

### Ethereum



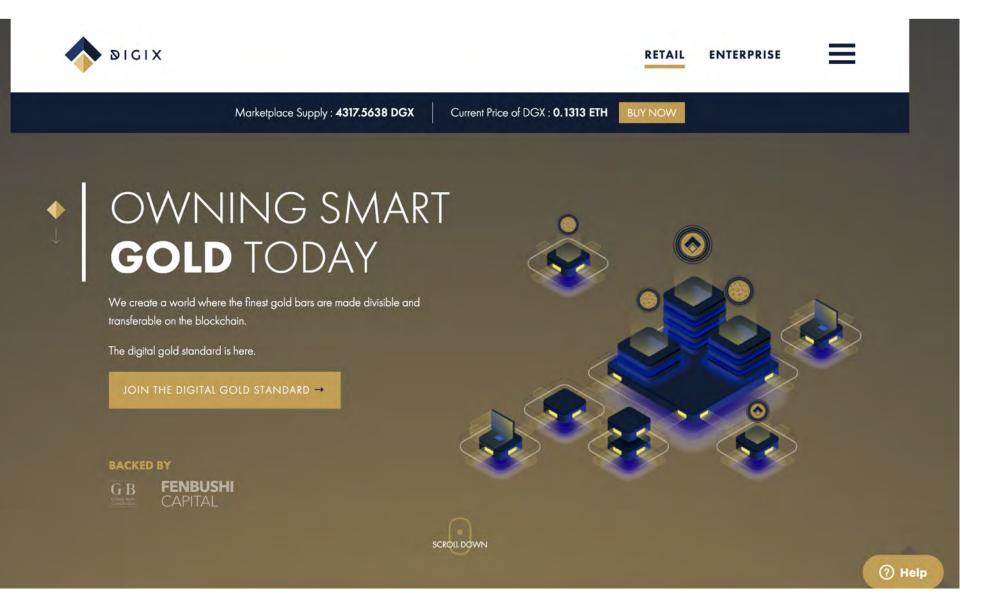


Mon, 21 Aug 2017 6.30pm – 8.30pm SGInnovate @ 32 Carpenter Street





### Tokenisation of Commodities



### Tokenisation of Commodities

DIAMOND EVALUATION CEDEX COIN TEAM FAQ VIDEOS NEWS ANNOUNCEMENTS

Ф

LOG IN

#### WHITEPAPER

### CEDEX

#### CERTIFIED BLOCKCHAIN BASED DIAMOND EXCHANGE

Transforming Diamonds into a New Asset Class

Now Listed On The Following Exchanges:

EXRATES • CoinHub

Join CEDEX on social media



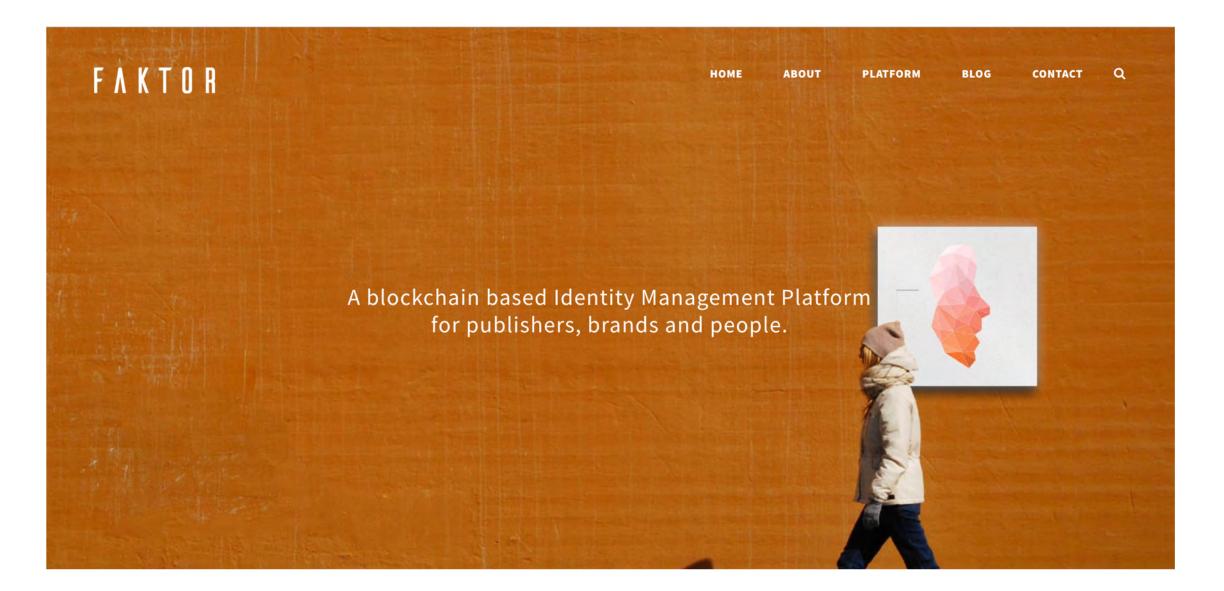
7 Keep updated with our latest 9 news and chat with our team 10 over Telegram!

Telegram chat

⑦ Support

Log in 名

### Tokenisation of Identity



### Tokenisation of Personal Data



What Is Datum? Token Sale Blog FAQ Whitepaper

米



# The marketplace for **User** data

Data is the new Oil. Datum is creating a global data exchange by turning data into tradeable commodities. Powered by Ethereum, BigchainDB and IPFS.

Token Sale

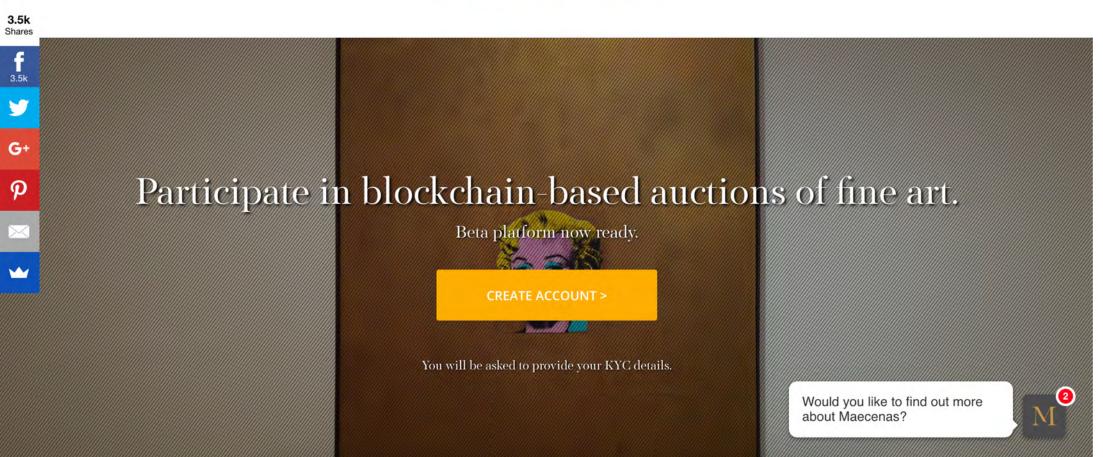
### Tokenisation of Fine Art

PLATFORM I THE ART MARKET I HOW IT WORKS I TEAM I FAQ I CONTACT

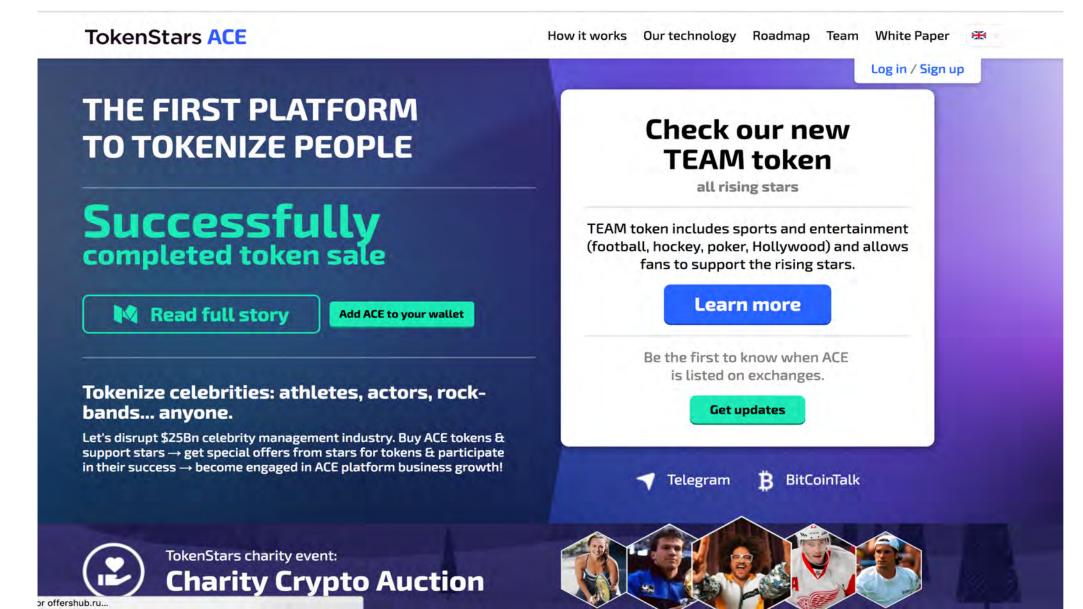


Login

(in 🖸



### Tokenisation of People



# Summary

Cypherpunks Blockchain Distributed Everything Disruption

# What's Next?





lan McKee +65 96840019 ian.mckee@vuulr.com