GOLD
TIME
INFO

THE BITCOIN OWNERSHIP PROTOCOL
& THE WEB OF TRUST

BY ERIC FREEBURG

INDIAN HARBOR YACHT CLUB

DECEMBER 2, 2022
1:00 PM EST (18:00 UTC)

OVERVIEW

GOLD - HISTORY'S MONEY PROTOCOL   (AU)

TIME - COORDINATED UNIVERSAL TIME   (UTC)

INFO - THE INTERNET PROTOCOL   (TCP/IP)

BITCOIN - THE OWNERSHIP PROTOCOL   (BTC)

THE WEB OF TRUST

IDENTITY, REPUTATION, & CREDIT

Q&A

GOLD
TIME
INFO

DISAMBIGUATIONS

- **<u>Bitcoin</u>**

  The overall protocol; the entire system of Bitcoin.

- **<u>BTC</u>**

  The unit of account, usually denoted BTC.

  e.g., One (1) BTC is worth about $17,000 today

- **<u>Protocol</u>**

  A standard or way of doing something.

CRYPTO IS THE NOISE

<u>Crypto:</u>

- Brilliant founders
- Across thousands of projects
- Touting 'better tech' narratives
- Mainly to non-technical persons
- Issuing tokens & securities without any oversight
- Enormously complex
- Making it a haven for empty narratives and outright fraud

At best, we are allowing ourselves to be fooled by empty narratives cloaked in technical jargon we don't understand.

At worst, a kid in the Bahamas is outright stealing from us.

GOLD
TIME
INFO

DON'T BROWSE

When you browse the world of crypto, you
get lost in a sea of noise.

                    Tokens
                     NFTs
                  distributed
                     web3
Crypto is: blockchain
                venture capital
                     DeFi
                    Yield
                decentralized
                proof-of-stake

THE BITCOIN OWNERSHIP PROTOCOL
& THE WEB OF TRUST

ERICFREEBURG.COM   PG 5 / 37

BITCOIN IS THE SIGNAL

Bitcoin:

- Many decades-long pursuit
- By a dedicated group of 'cypherpunks'
- Culminated in the creation of a novel invention - the Bitcoin Blockchain
- A digital ownership protocol
- That currently revolves around its own internal unit of account (BTC)
- Enables peer-to-peer trade across the internet

Which is laying the foundation for a new **Web of Trust**

At best, bitcoin is a new institution for the digital era, used by **b**illions of people across the globe.

At worst, bitcoin is already a new institution for the digital era, used by **m**illions of people across the globe.

GOLD
TIME
INFO

BUT WHAT IS IT?

What is Bitcoin?

Bitcoin is the digital ownership protocol.

Please use more words

Bitcoin is the internet's property title
office - a place you go to record digital
ownership.

**As such it is one of humanity's Great
Protocols.**

THE GREAT PROTOCOLS

GOLD
The Money Protocol

TIME
The Timekeeping Protocol

INFO
The Internet Protocol

GOLD
The Money Protocol

ANCIENT GOLD

Gold (AU) is an element on the periodic table.

- Soft and malleable metal
- Identifiable
- Divisible
- Transportable
- Rare in the earth's crust
- Does not oxidize like other metals

3000 BC

Egyptian Royals begin making statues and jewelry out of gold as displays of wealth and power.

Thus begins gold's journey to becoming a money.

GLOBAL TRADE

Forward a Few Millennia

The proliferation of global trade
increases the use of gold as:

- medium-of-exchange
- unit-of-account
- store-of-value

A gold-money protocol has emerged, and
experienced 'network effects' as more and
more people used gold.

Gold becomes more and more scarce,
creating a self-reinforcing feedback loop.

WORLD WAR

In the wake of WWII

The United States uses the legitimacy of
the gold-money protocol to lock in its
status as the world's superpower.

By establishing a "Gold Standard," the USA
borrowed the gold-money protocol's
credibility to make itself the new steward
of money.

Much has happened since then, but this is
as far as we need go for now.

GOLD

Takeaways:

- Anchored to hard science
- Indestructible
- Installed by a small minority
- Reliably scalable
- Durable and secure
- Inherently Open

TIME

The Timekeeping Protocol

TIME IN PORT

Early 19th Century

British Navy undertakes massive
infrastructure project of time signals at
ports all throughout the empire.

Time balls communicated precise time
(found by astronomers) to captains aboard
ships, allowing for vastly improved
navigation at sea using chronometers.

At same time, most maps use The Greenwich
Meridian as Prime Meridian. Therefore
trade began to be conducted using
Greenwich Mean Time.

TIME IN THE COCKPIT

<u>Coordinated Universal Time (UTC)</u>

Still based upon the Greenwich Prime
Meridian, this is just a further lock-in
of Greenwich Mean Time.

UTC makes Global positioning (GPS) and
myriad other technologies possible.

<u>ZULU Time</u>

US Department of Defense uses Zulu Time

TIME INSIDE COMPUTERS

Computers learn to read and write UTC with instantiation of Unix time. A computerized time code that is tethered to Coordinated Universal Time.

Unix Time

The timekeeping protocol used by computers. Tethered to UTC (with small caveats).

TIME

Takeaways:

- Anchored to hard science
- Indesctuctible
- Installed by a small minority
- Reliably scalable
- Durable and secure
- Inherently Open

INFO
The Internet Protocol

EARLY INFORMATION

Pre-History:

Oral Tradition

Egypt:

Hieroglyphics

Library At Alexandria:

Where written works are collected and then organized. A pre-modern google. The very beginnings of our information networks.

NEWTON

Re-Animating Alexandria

Guttenberg and The Renaissance revived the
Library At Alexandria and re-invigorated
our building of networks of knowledge
throughout the world.

The Emergence of:

 • Libraries
 • Universities
 • International Cities
 • Printing
 • Science

And Isaac Newton.

PACKETS

In the 20th Century, modern computers were invented. And these machines were capable of storing vast quantities of information (what we now call data).

Enter TCP/IP

Transmission Control Protocol
Internet Protocol

Engineers set out to design a protocol for the sharing of information between computers, establishing computer networking.

The Internet Protocol was invented as a standard for computers to share information with one another.

INFO

Takeaways:

- Anchored to hard science
- Indesctuctible
- Installed by a small minority
- Reliably scalable
- Durable and secure
- Inherently Open

BITCOIN
The Ownership Protocol

THE OWNERSHIP PROTOCOL

a trustless system.
a decentralized database.
the first blockchain.
Bitcoin is....   **The Ownership Protocol.**
the creation of Satoshi Nakomoto.
too slow.
just the beginning.
the end of banking.
energy.
a digital payment currency.
a cryptocurrency
a peer-to-peer (P2P) money technology.

DIGITAL PROPERTY

The Bitcoin Ownership Protocol is a digital
titling system.

At present, owning the unit of account, the BTC,
has attracted enough attention from the
marketplace to generate daily liquidity of 10B
USD per day.

**Individuals merely exercising their right to
digital property is what makes this unit of
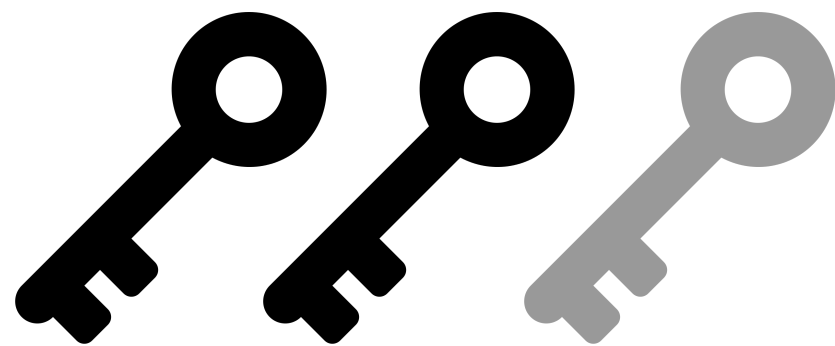account worth $17,000 today.**

THRU SEEDS AND KEYS

SEED PHRASE:

1. THIS   7. TWELVE
2. COULD   8. WORD
3. BE   9. BITCOIN
4. YOUR   10. SECRET
5. VERY   11. SEED
6. OWN   12. PHRASE

PRIVATE KEY:

E9873D79C6D87DC0FB6A5778633389

MULTIPLE-SIGNATURE:

(A TWO OF THREE KEY SCHEME)

THE FIRST PRODUCT

```
                          0.00
                          1
                          10
                          32
                      1,200
                        300
                    20,000
                      3,000
                    69,000
1 BTC  =  17,000 US Dollars
```

The 'currency' is just the first product.

The cypherpunk community completed their
product in 2009. All of the work poured
into 'digital money' over the decades is
now bursting out on the other side in the
form of BTC price expansion and
volatility.

BLOCKCHAIN

The Bitcoin 'blockchain' is a machine capable of reliably and durably time-stamping valuable records of digital ownership.

This transforms the internet into a realm where individuals are endowed with property rights. Bitcoin adds digital ownership to the internet protocols suite of capabilities.

Bitcoin will do to the internet what Washington, Hamilton, Adams, and Jefferson did to the American colonies.

The Bitcoin Blockchain will utterly transform our very conception of the digital realm.

BITCOIN

Takeaways:

- Anchored to hard science
- Indesctuctible
- Installed by a small minority
- Reliably scalable
- Durable and secure
- Inherently Open

GOLD
TIME
INFO

THE WEB OF TRUST

PROPERTY MATTERS

John Locke's writing on property were influential in shaping our understanding of liberty.

However, I will quote Arthur Lee because he sums it up best:

"The right of property is the guardian of every other right, and to deprive a people of this, is in fact to deprive them of their liberty."

Without property rights, the web is what you see today. With property rights, the web can be so much more.

The World Wide Web was built atop the internet protocol. Just as The Web Of Trust is being built atop the Bitcoin protocol.

GOLD
TIME
INFO

IDENTITY

I own property, therefore I exist.

REPUTATION

I am known to others, therefore I have a
reputation.

GOLD
TIME
INFO

CREDIT

Requires concepts of:

• Property
• Identity
• and Reputation

GOLD
TIME
INFO

CONCLUSION

We have all watched cyberspace grow into
existence in front of our very eyes.

Cyberspace is where:

- Great companies are built
- Giant sectors of the economy have
  shifted
- Wars over thought and belief are fought

Bitcoin represents the addition of digital
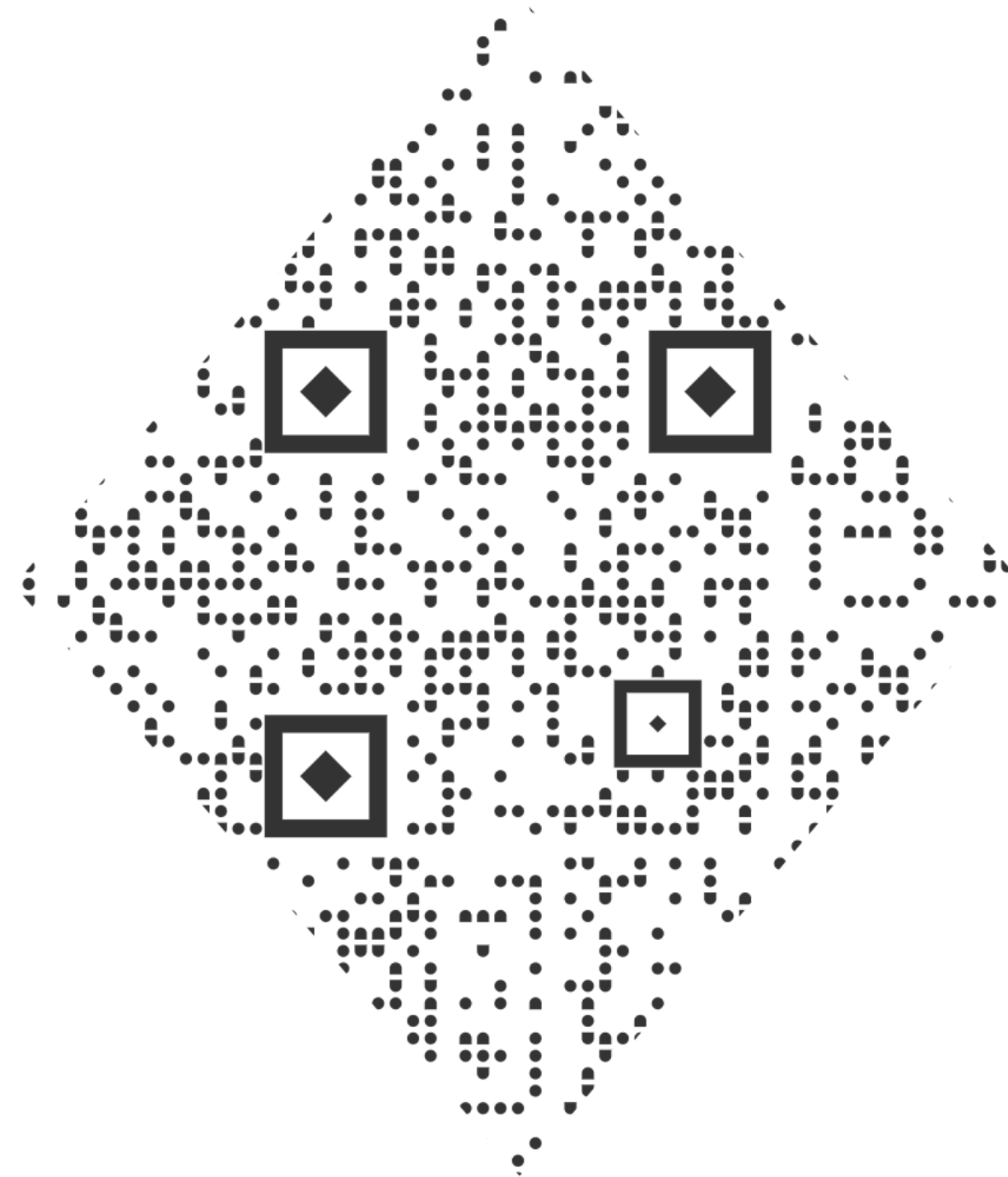property rights to cyberspace.

Today

You can use bitcoin to own BTC, it's unit
of account.

Tomorrow

You will use bitcoin to lay claim to all
manner of digital property in the web of
trust.

GOLD
TIME
INFO

THANK YOU

SCAN ME
for a link
to this presentation

ERICFREEBURG.COM/OWNERSHIP