

BLOCKCHAINS

MINING NUMBERS NOT GOLD

PRESENTED BY



neuroware

DESPITE A FAMILY IN FINANCE I'VE MADE ONLY ONE INVESTMENT



Mark Smalley

Founder & CEO

Living in Malaysia for 20 Years

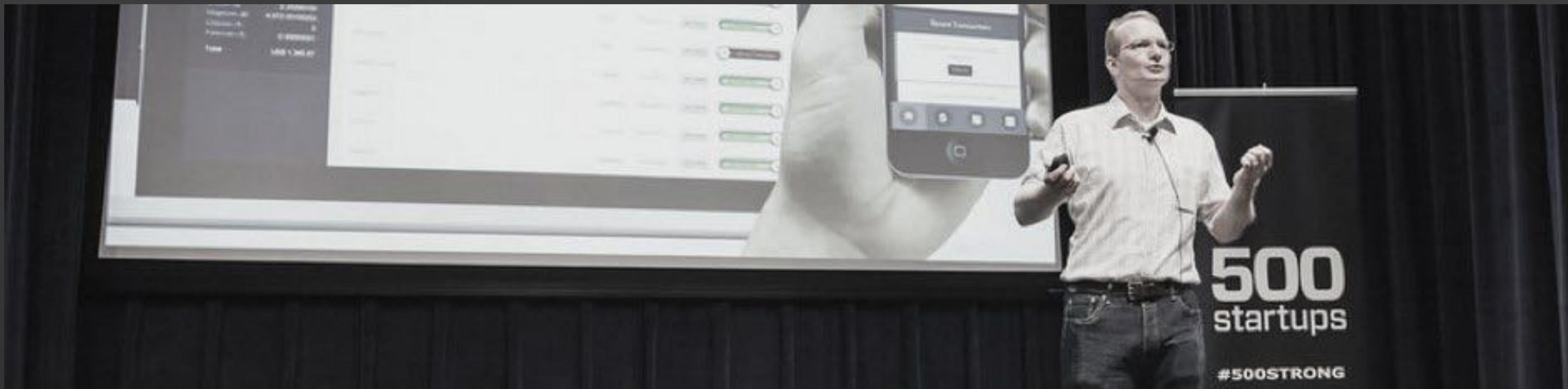
Building Web Applications for 15 Years

Building Tech Communities for 10 Years

Building Blockchain Apps for 5 Years

With **40,000% returns** in 5 Years

WE ARE EXPERIENCED INNOVATORS IN AN EARLY ECOSYSTEM



- **Only Malaysian Company** to Graduate from 500 Startups in Silicon Valley
- **1st Company in Asia** Providing Public Blockchain APIs & Developer Toolkits
- **1st in The World** to Develop Non-Financial Blockchain Agnostic Protocols
- Helped Organize World's 1st Bank-Backed Blockchain Hackathon (DBS)
- Over 15 Years of Collective Blockchain Development Experience

WE HAVE WORKED WITH INDUSTRY LEADERS

REGULATORS WE HAVE TRAINED



BANK NEGARA MALAYSIA
CENTRAL BANK OF MALAYSIA



Suruhanjaya Sekuriti
Securities Commission
Malaysia

INSTITUTIONS INVESTED IN US

500 startups

coinsilium

REGULATED INSTITUTIONS WE HAVE DONE BUSINESS WITH



RECENTLY HELPED LAUNCH THE BLOCKCHAIN EMBASSY OF ASIA

<http://bce.asia>



banking ambassador

LIM JOYAN & CO.
ADVOCATES | SOLICITORS

legal ambassador



banking ambassador



education ambassador



media ambassador



IoT ambassador



fintech ambassador

CapitalBay

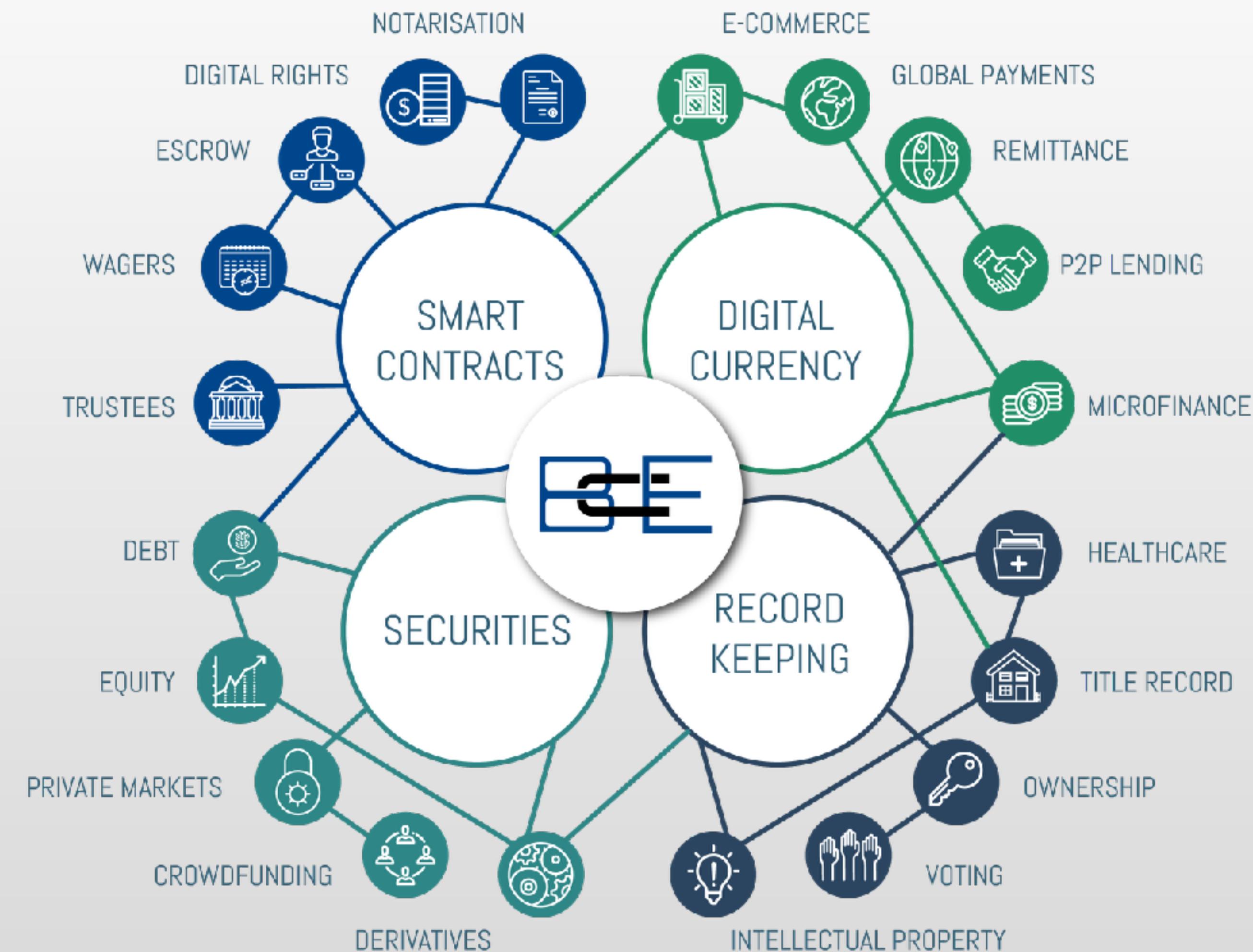
invoice ambassador



tech ambassador

BIG PROBLEMS INVOLVE MULTIPLE PARTNERS & MOVING PARTS

(BEYOND FINTECH LIES IoT, BIG DATA & HEALTHCARE - WHICH IS WHY WE ARE REGIONAL)



MONEY BEGETS MONEY

WHICH IS WHY WE HAVE BLOCKCHAINS!

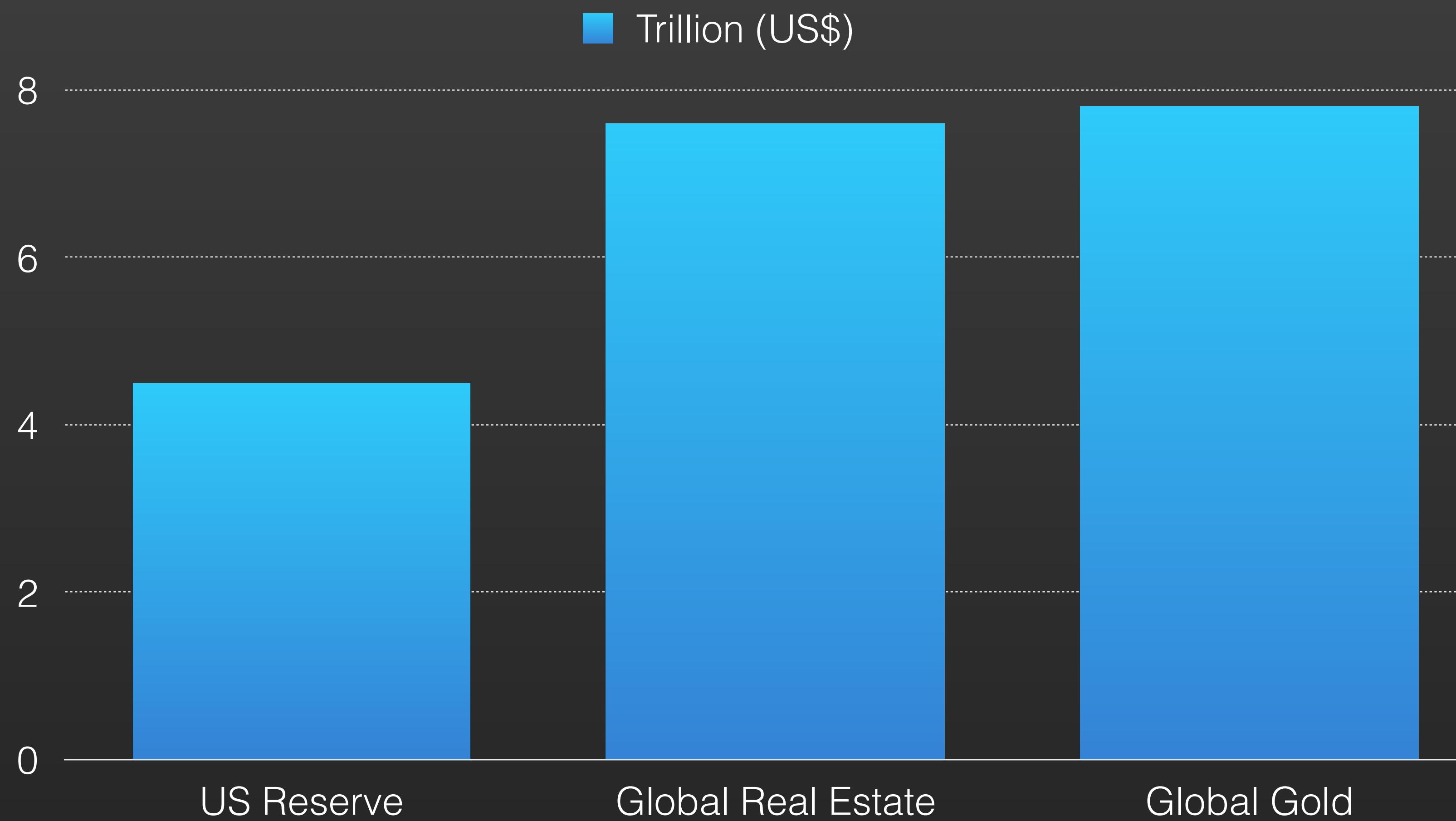
ONCE UPON A TIME - THERE WERE GOLD STANDARDS



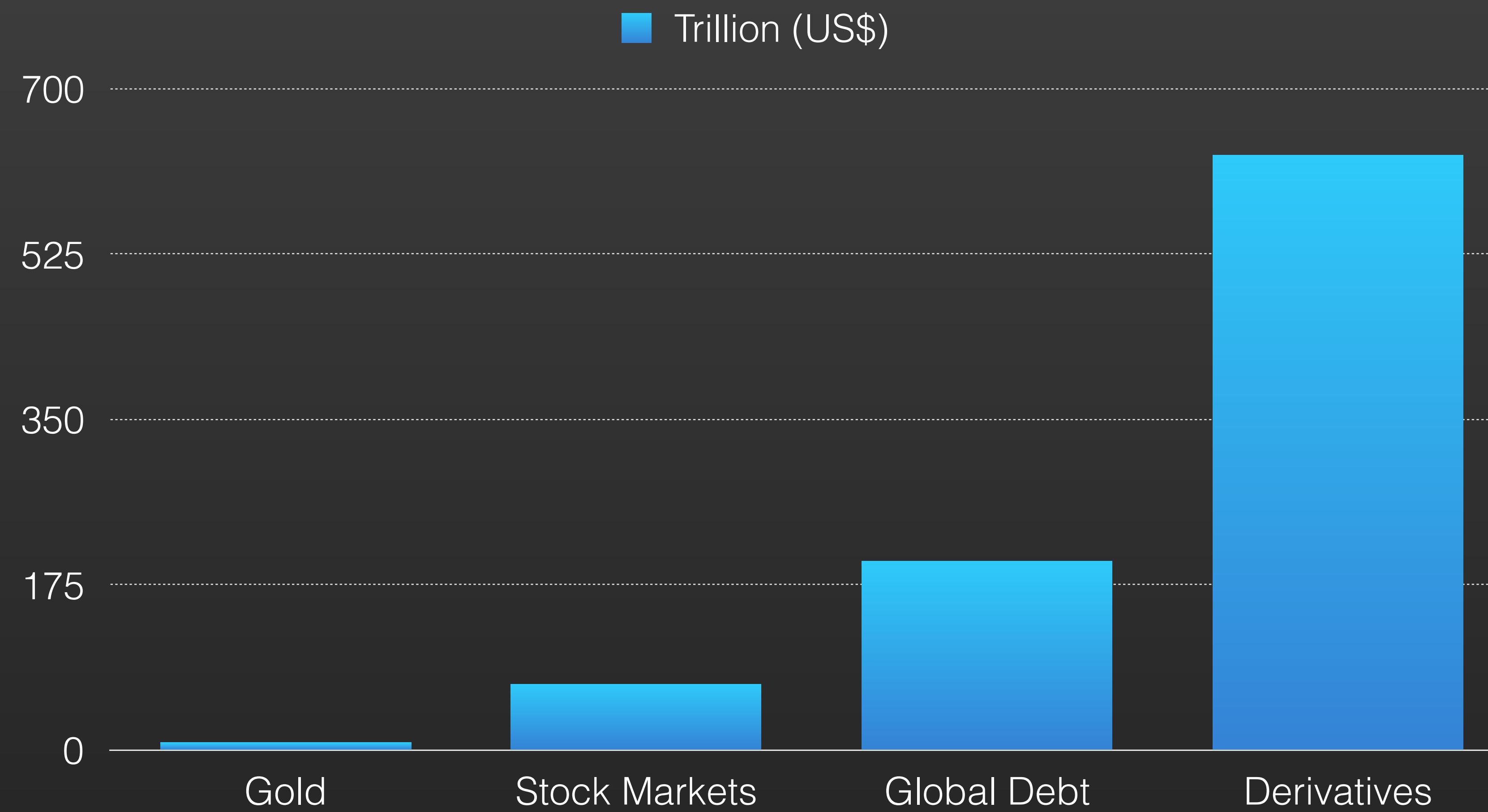
THE END OF AN ERA - MONEY IS COMPLICATED

- 1873 to 1914 - All major worldwide currencies were 100% backed by gold
- After WW1 ended the USA switched to Fractional Reserve Banking
 - started by printing US\$50 for every US\$20 deposited in gold
- During WW2 the USA accumulated 2/3rd's of all gold, forcing all currencies to switch to fiat-systems pegged to US\$, which was pegged to gold
- 1971 - Richard Nixon ended the gold standard, introducing **petrodollars**

WHEN WE THINK OF THE US DOLLAR WE THINK OF **REAL MONEY**



DEBT & CENTRALIZED ASSETS MAKE THE WORLD GO ROUND



IT ALL ENDS IN TEARS (512 US BANKS CLOSED SINCE 2008)



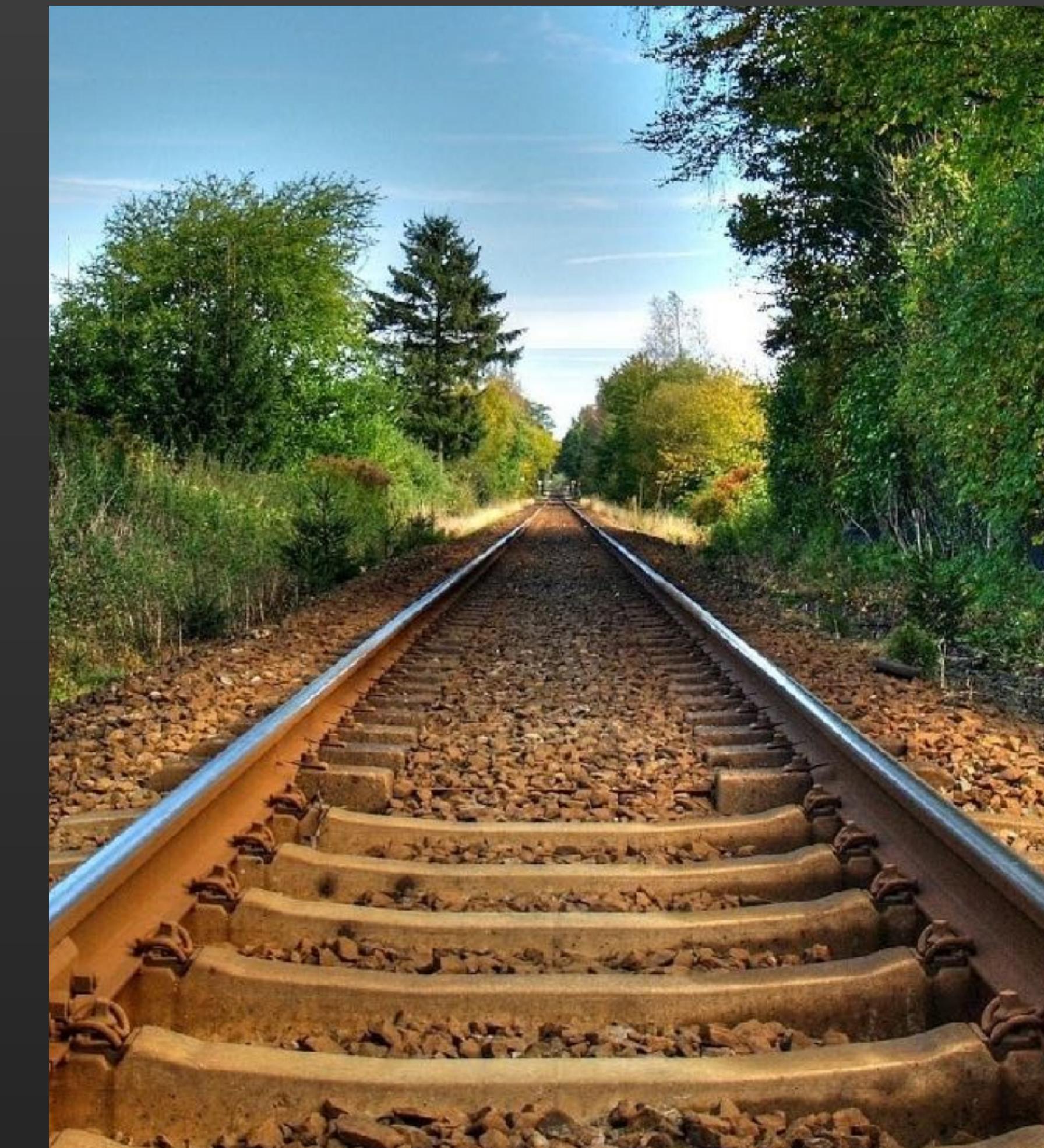
BITCOIN

(first successful asset traded on blockchains)

vs

BLOCKCHAINS

(the underlying technology - a shared ledger)



WHAT ARE THE BENEFITS OF DISTRIBUTED **PUBLIC** LEDGERS?

- They provide an **immutable** tamper-proof audit-trail of the truth
- Data can be easily **shared** and independently verified by third-parties
- Vastly increased **security** that is much less vulnerable to attack or outage
- Programmable **contracts** that can radically reduce human errors and costs



“While Fintech Disrupts Banks,
the Blockchains Disrupt Fintech”

INTERESTING BITCOIN BLOCKCHAIN FACTS TO REMEMBER

- Bitcoin blockchain released in January 2009 by Satoshi Nakamoto
- We do not know who Satoshi is, or what their religion or political views are
- However, the bailout of 2008 was cited as primary catalyst for its creation
- RM50 per coin in 2013 (when we bought) - now over RM5,000 per coin
- The Bitcoin network is currently processing over 250,000 daily transactions
- The network's market capitalization is currently around RM60 (ish) billion
- 21 million maximum finite supply, decreasingly dispersed every 10 minutes
- **But most importantly of all is the technology behind it...**

BITCOIN AND BLOCKCHAINS HAVE NO NEW TECHNOLOGY



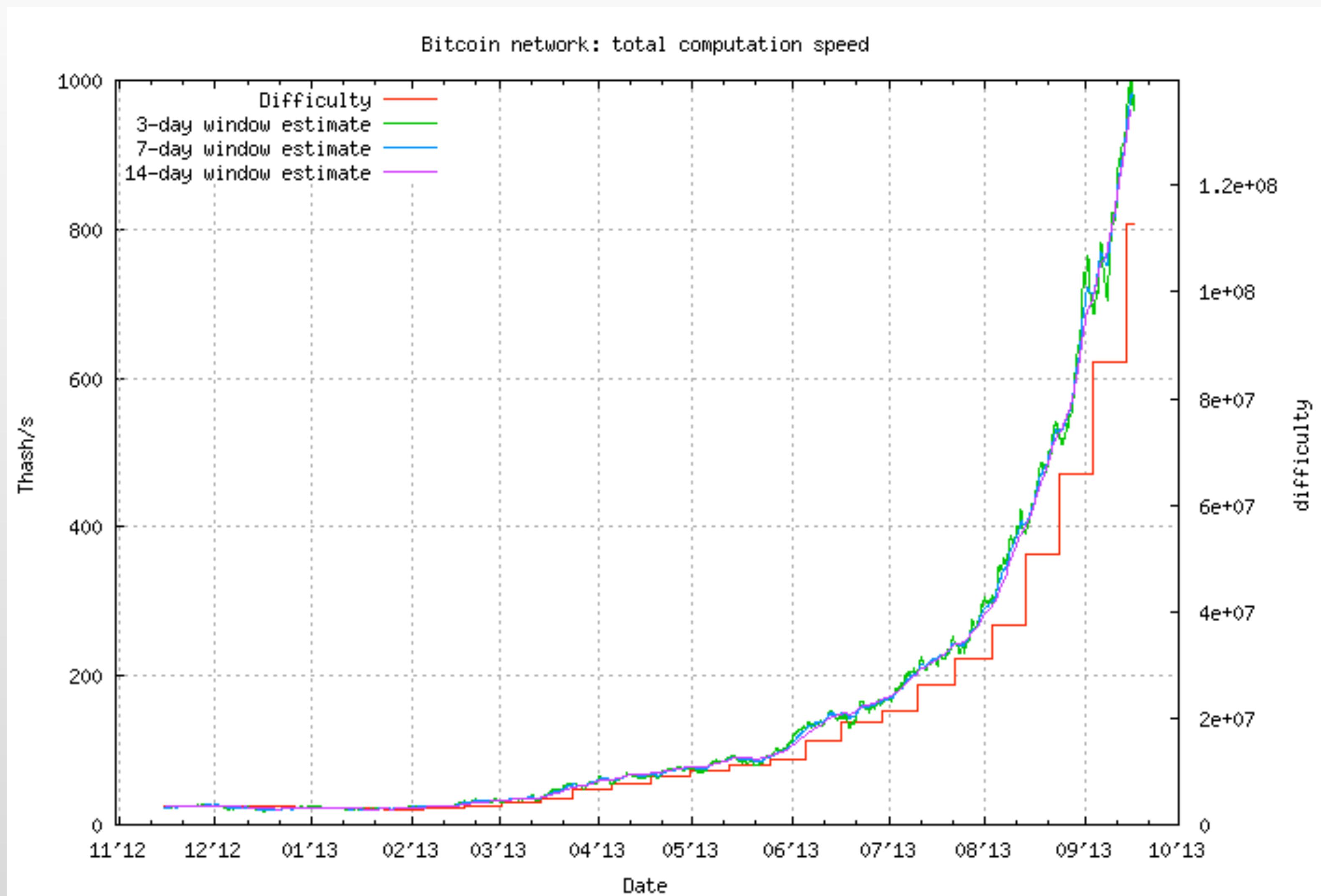
- HASH - Theorized in the 1800s - Coined by IBM in the 1950s
- SHA - Encryption method first introduced by US Navy in 1993
- P2P - Peer to peer protocol popularized by Napster in 1999

MINING FOR NUMBERS

- To reach **consensus** as to which node has the right to add the next block to the chain, miners compete in a race to solve cryptographic equations
- Miners gather and in-turn verify unconfirmed transactions into blocks
- They then add a nonce (one use number) to the block and hash it
- If the hash has X number of zeros at the beginning it becomes a valid block
- Otherwise the miners increase the nonce and they hash the block again
- Solving these cryptographic equations is becoming increasingly difficult



THIS IS THE HASHING POWER OF THE NETWORK IN 2013



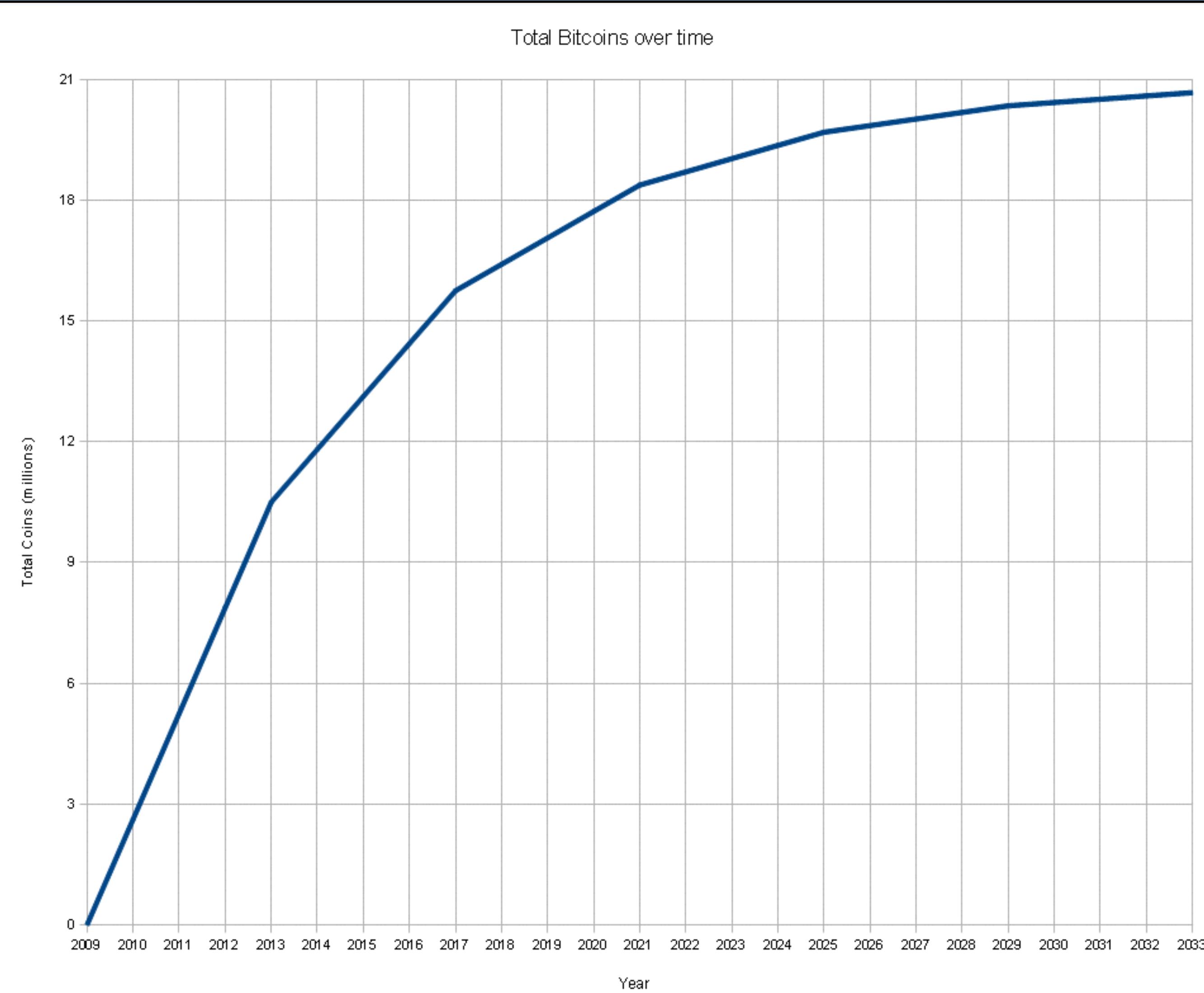


MINING IS NOW A BILLION DOLLAR BUSINESS





BITCOIN SUPPLY - 21 MILLION - 2009 to MAY 7th, 2140



IS BITCOIN A CURRENCY, COMMODITY OR TOOL ...?

| Traits of Money | Gold | MYR / Fiat | Bitcoin |
|-----------------|----------------------|------------------------|----------------------|
| Durability | | fragile | |
| Portability | heavy | | |
| Divisibility | difficult | limited | |
| Uniformity | if processed | | |
| Limited Supply | theoretically | printed at will | |
| Sunnah Money | Commodities | MYR / Fiat | Bitcoin |
| Intrinsic Value | | representation | |
| Inflation Proof | unknown | debt based | |
| Acceptability | limited | | growing daily |

IMPORTANT TO HAVE CLEAR, EFFICIENT FINAL THOUGHTS

Bitcoin is not legal tender and must
be used at the investors own risk



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- This is no different to gold, currencies from other countries or commodities
- Although the fate of Bitcoin is uncertain, there will always be public currencies
- The potential for tamper proof data storage is endless and certain ...

THANK YOU

NOW IS THE TIME TO QUESTION THINGS

LEARN MORE ABOUT



neuroware

<http://neuroware.io>