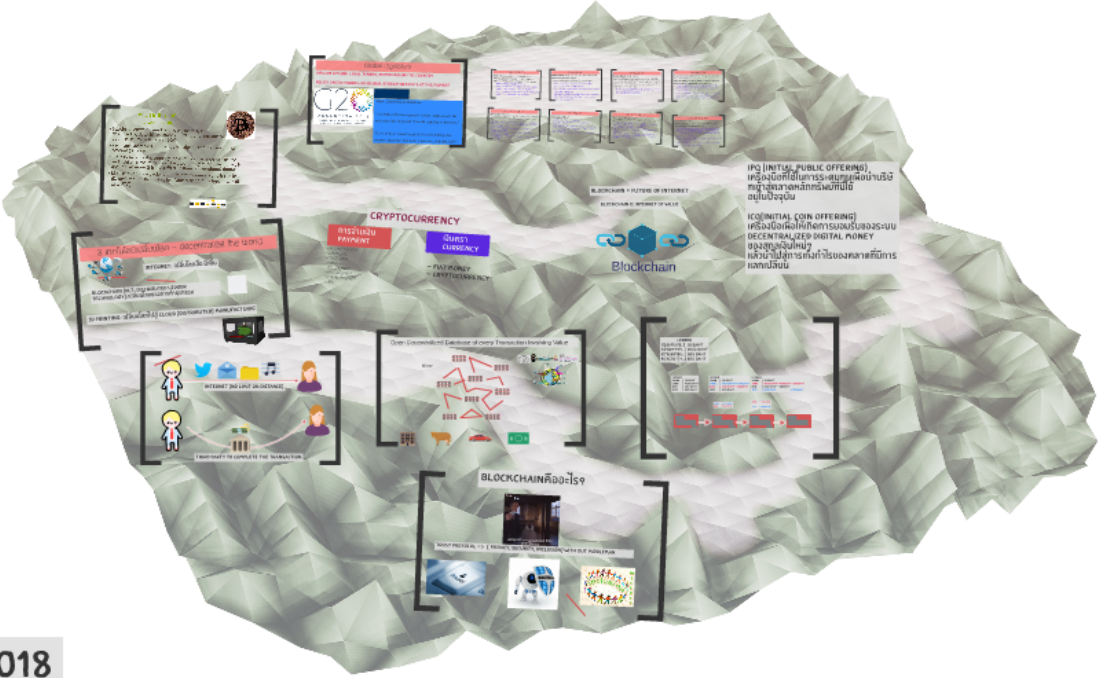
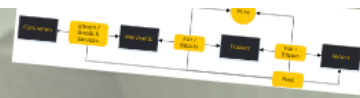


BlockChain-Cryptocurrency



APRIL 2018





3 เทคโนโลยีเปลี่ยนโลก - decentralize the world

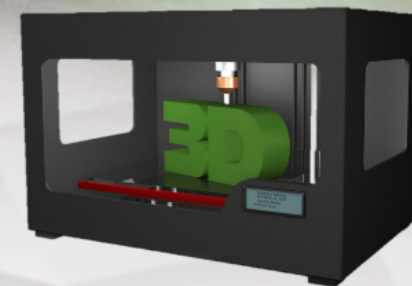


INTERNET: เปลี่ยนโลกสื่อ มีเดีย

BLOCKCHAIN (DLT; DISTRIBUTED LEDGER TECHNOLOGY): เปลี่ยนโลกของการทำธุรกรรม



3D PRINTING: เปลี่ยนโลกไปสู่ CLOUD (DISTRIBUTED) MANUFACTURING

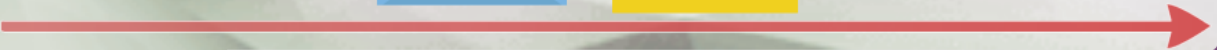
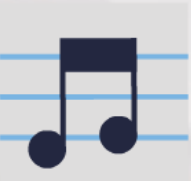
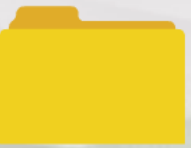


BLOCKCHAIN = FUTURE OF INTERNET

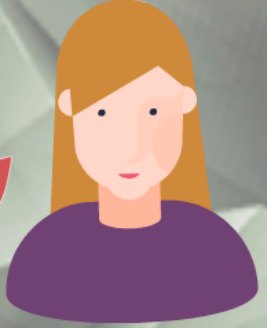
BLOCKCHAIN IS INTERNET OF VALUE



Blockchain



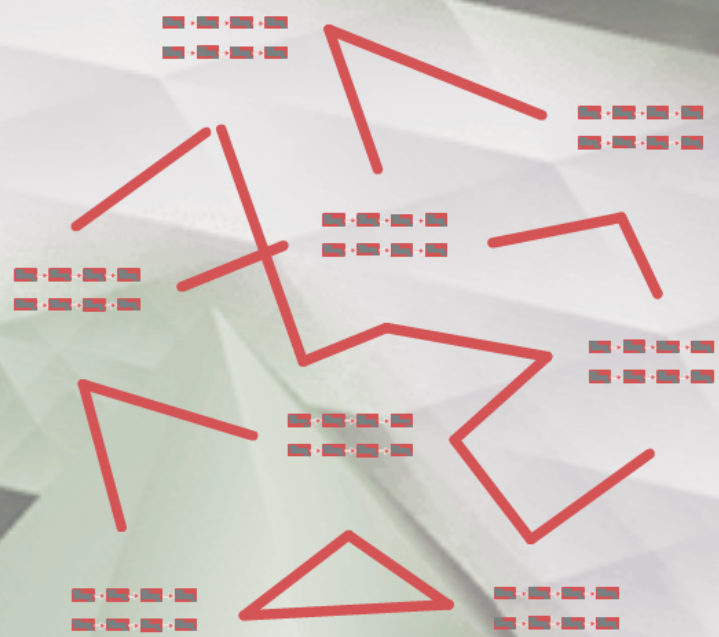
INTERNET (NO LIMIT ON DISTANCE)



THIRD PARTY TO COMPLETE THE TRANSACTION

Open Decentralized Database of every Transaction Involving Value

Miner



LEDGER	
JOHN	30 BAHT
JANE	1000 BAHT
BOB	500 BAHT
JEFF	800 BAHT

LEDGER	
JOHN	30 BAHT
JANE	1000 BAHT + 100 BAHT
BOB	500 BAHT - 100 BAHT
JEFF	800 BAHT



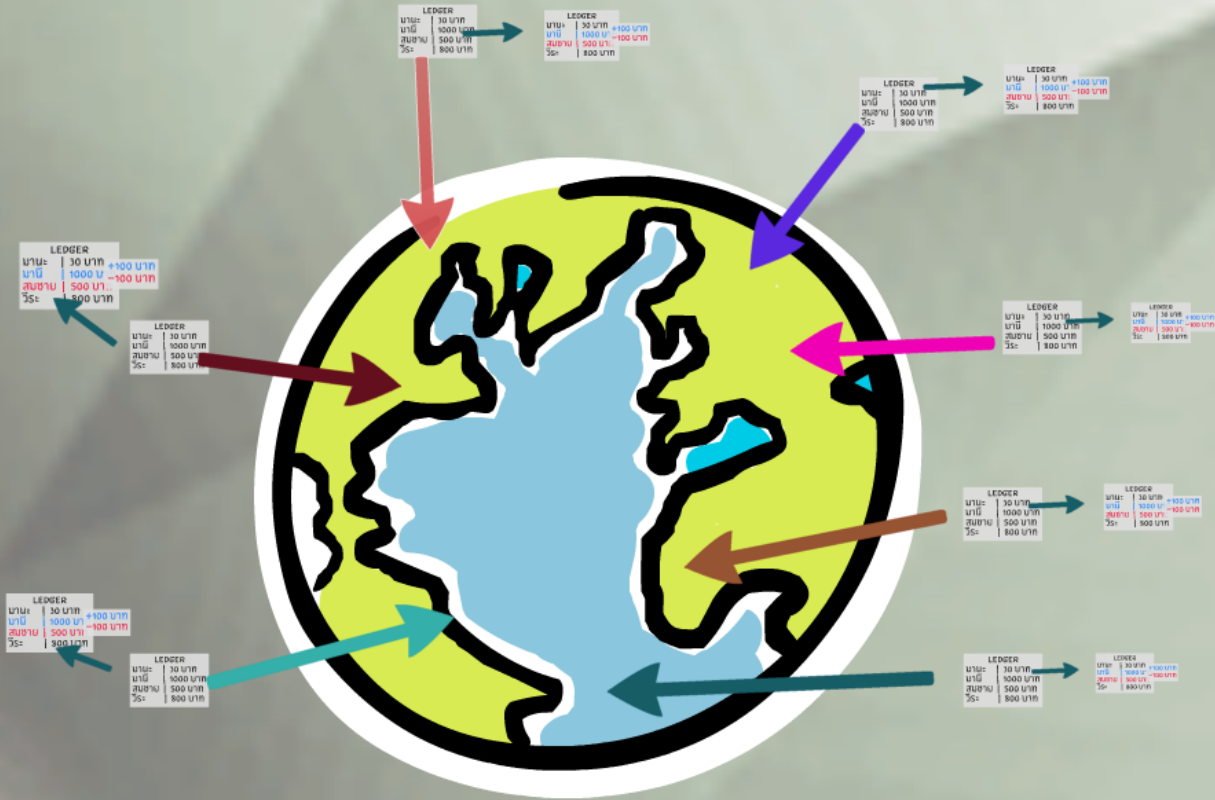
LEDGER	
JOHN	30 BAHT
JANE	1000 BAHT
BOB	500 BAHT
JEFF	800 BAHT



100 BAHT



LEDGER	
JOHN	30 BAHT
JANE	1000 BAHT + 100 BAHT
BOB	500 BAHT - 100 BAHT
JEFF	800 BAHT



LEDGER
 XZ@#UY8..| 30 BAHT
 AS90!++P1..| 1000 BAHT
 RT% &098U..| 500 BAHT
 NJXCXC*)+..| 800 BAHT

LEDGER
 JOHN | 30 BAHT
 JANE | 1000 BAHT
 BOB | 500 BAHT
 JEFF | 800 BAHT

LEDGER
 JOHN | 30 BAHT
 JANE | 1000 BAHT +100BAHT
 BOB | 500 BAHT -100BAHT
 JEFF | 800 BAHT

LEDGER
 JOHN | 30 BAHT
 JANE | 1000 BAHT +100BAHT -100BAHT
 BOB | 500 BAHT -100BAHT
 JEFF | 800 BAHT +100BAHT

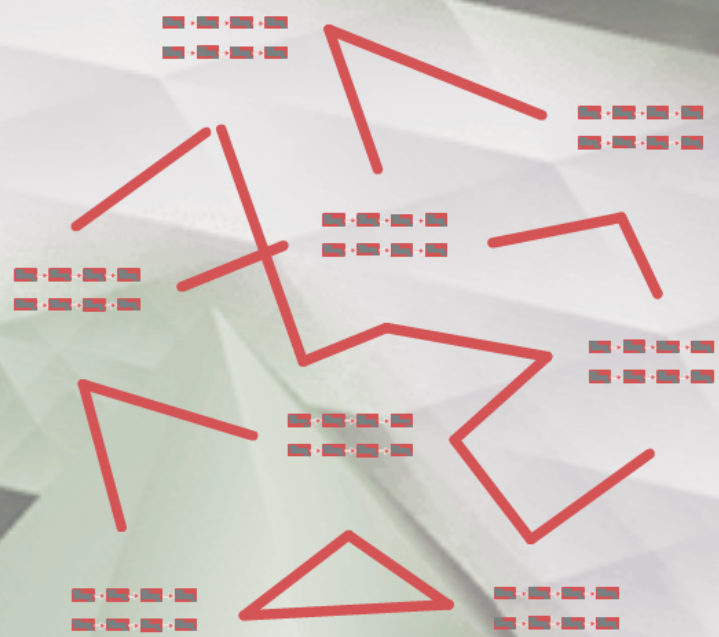
JANE +100 BAHT
 BOB -100 BAHT

JANE -100 BAHT
 JEFF +100 BAHT



Open Decentralized Database of every Transaction Involving Value

Miner



LEDGER	
JOHN	30 BAHT
JANE	1000 BAHT
BOB	500 BAHT
JEFF	800 BAHT

100 BAHT

LEDGER	
JOHN	30 BAHT
JANE	1000 BAHT + 100 BAHT
BOB	500 BAHT - 100 BAHT
JEFF	800 BAHT



BLOCKCHAINคืออะไร?



TRUST PROTOCOL -> { PRIVACY, SECURITY, INCLUSION } WITH OUT MIDDLEMAN





using your normal bankcard, this is what happens:

CRYPTOCURRENCY

การจ่ายเงิน PAYMENT

- Money Transfer
- Debit card
- credit card
- cash
- QR payment
- NFC payment
- mobile Payment
- etc.

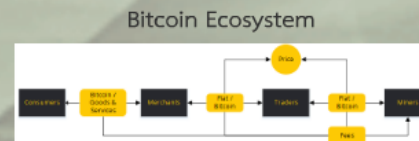
เงินตรา CURRENCY

- FIAT MONEY
- CRYPTOCURRENCY

What is Bitcoin? (Introduction)



- Bitcoin is software-based online payment system described by Satoshi Nakamoto in 2008. and introduced as open-source software in 2009.
- Payments are recorded in a public ledger using its own unit of account (Bitcoin).
- It is a form of digital currency (physical form is absent), created and held electronically. It can be used to buy things electronically and in that sense **it is no different than conventional dollars.**
- Bitcoin is commonly referred to as cryptocurrency and it can be divided into smaller unit called Satoshi (one hundred millionth of a BTC).



Switzerland Regulation

View on bitcoin: Legal

Policy on exchanges: Legal, need to register with the Swiss Financial Market Supervisory Authority.

- Swiss regulators have earned a reputation as some of the friendliest in the world when it comes to cryptocurrency
- Four in 10 of the biggest proposed initial coin offerings have been based in Switzerland
- The Swiss Financial Market Supervisory Authority has put up clear guidelines for ICOs
- Economics Minister Johann Schneider-Ammann wants the country to become "cryptonation"

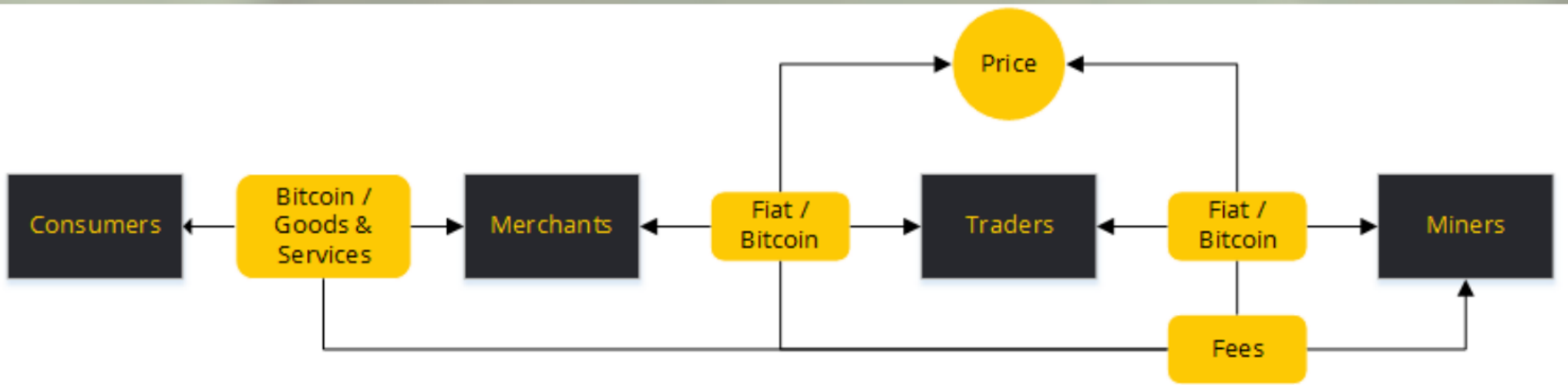
IPO (INITIAL PUBLIC OFFERING)

เครื่องมือที่ใช้ในการระดมทุนเพื่อนำบริษัทเข้าสู่ตลาดหลักทรัพย์ที่มีใช้
อยู่ในปัจจุบัน

ICO (INITIAL COIN OFFERING)

เครื่องมือเพื่อให้เกิดการยอมรับของระบบ
DECENTRALIZED DIGITAL MONEY
ของสกุลเงินใหม่ ๆ
แล้วนำไปสู่การเก็งกำไรของตลาดที่มีการ
แลกเปลี่ยน

Bitcoin Ecosystem



Global regulators

VIEW ON BITCOIN: LEGAL TENDER, DEPENDING ON THE COUNTRY.

POLICY ON EXCHANGES: NO GLOBAL REGULATOR EXISTS AT THE MOMENT



Mark Carney-Board Chairman

"The FSB's initial assessment is that crypto-assets do not pose risks to global financial stability at this time,"

"Even at their recent peak, their combined global market value was less than 1 percent of global GDP,"

Japan Regulation

View on bitcoin: Legal tender as of last April 2017.

Policy on exchanges: Exchanges are legal if they are registered with the Japanese Financial Services Agency.

- Japan is the biggest market for bitcoin
- It was the first country to adopt a national system to regulate cryptocurrency trading after Mt.Gox case
- Punishment the exchange from the \$530 million theft of digital currency from exchange Coincheck.

US Regulation

View on bitcoin: Not legal tender, according to Financial Crimes Enforcement Network.

Policy on exchanges: Legal, depending on the state.

- The second largest volume of bitcoin, roughly 26 percent, according to Cryptocompare.
- U.S. regulators differ in their definitions of bitcoin and other cryptocurrencies.
- SEC has indicated it views digital currency as a security.
- The Commodity Futures Trading Commission says bitcoin is a commodity

UK Regulation

View on bitcoin: Not legal tender

Policy on exchanges: Legal, and need to register with the Financial Conduct Authority. They are required to meet the same anti-money-laundering counter-terrorism standards as other financial institutions

- The Financial Conduct Authority called crypto assets the high-risk, speculative products,

South Korea Regulation

View on bitcoin: Not legal tender

Policy on exchanges: Legal but use of anonymous bank accounts for virtual coin trading is prohibited. Need to register with South Korea's Financial Services Commission.

- Trading in South Korea makes up about 4 percent of daily volume of bitcoin.
- For other cryptocurrency such as XRP, trading in the Korean won commands a premium to U.S. dollars.
- Asia's fourth largest economy has become a hub for trading but regulators have given mixed signals.
- Last year, the Financial Services Commission banned local finance firms from trading bitcoin futures
- In late February, a government official said South Korea had still not decided how to regulate.

China Regulation

View on bitcoin: Not legal tender

Policy on exchanges: illegal

- Trading bitcoin in China is technically illegal
- In 2017, the government banned ICOs and shut down domestic cryptocurrency exchanges
- In January, a senior Chinese central banker said authorities should ban trading of virtual currencies as well as individuals and businesses that provide related services
- Chinese authorities are looking to end the practice of Crypto-mining

Singapore Regulation

View on bitcoin: Not legal tender

Policy on exchanges: Legal, may fall under regulatory purview of the Monetary Authority of Singapore

- The Singapore dollar makes up 0.02 percent of daily global bitcoin trading volume but the country has emerged as a hub for ICOs
- Two of the 15 largest coin offerings happened in Singapore
- Singapore is positioning itself as more friendly to cryptocurrencies than other regions
- In January, the Monetary Authority of Singapore urged the public "to act with extreme caution and understand the significant risks they take on if they choose to invest in cryptocurrencies.

India Regulation

View on bitcoin: Not legal tender, according to Financial Crimes Enforcement Network.

Policy on exchanges: Legal. The Indian government has issued warnings but does not currently regulate exchanges

- Steps to make cryptocurrencies illegal to use within its payments system and is looking to appoint a regulator to oversee exchanges
- cryptocurrency investing to tens of thousands of citizens after a national survey showed more than \$3.5 billion worth of transactions have been conducted over a 17-month period

