# BLOCKCHAIN

INSERT NAME HERE

# BLOCKCHAIN

- Stores information across the network of personal computers
- Secures transactions and storage of any kind of data
- Peer to peer software technology

BLOCK

- Timestamped
- Protected with encryption
- unbreakable

LEDGER

- Blockchain of records on the computer
- Get rids of the middleman

2008

- Satoshi Nakamoto
- First applicatio n of blockchain

- Genesis Block
- It works

2009

BITCOIN MARKET

- 10,000 for PIZZA
- Market cap exceeds $1M USD

2010

>Menu
>History
  >2011
  >2012
  >2013
  >All
>Items
>Options
>Exit

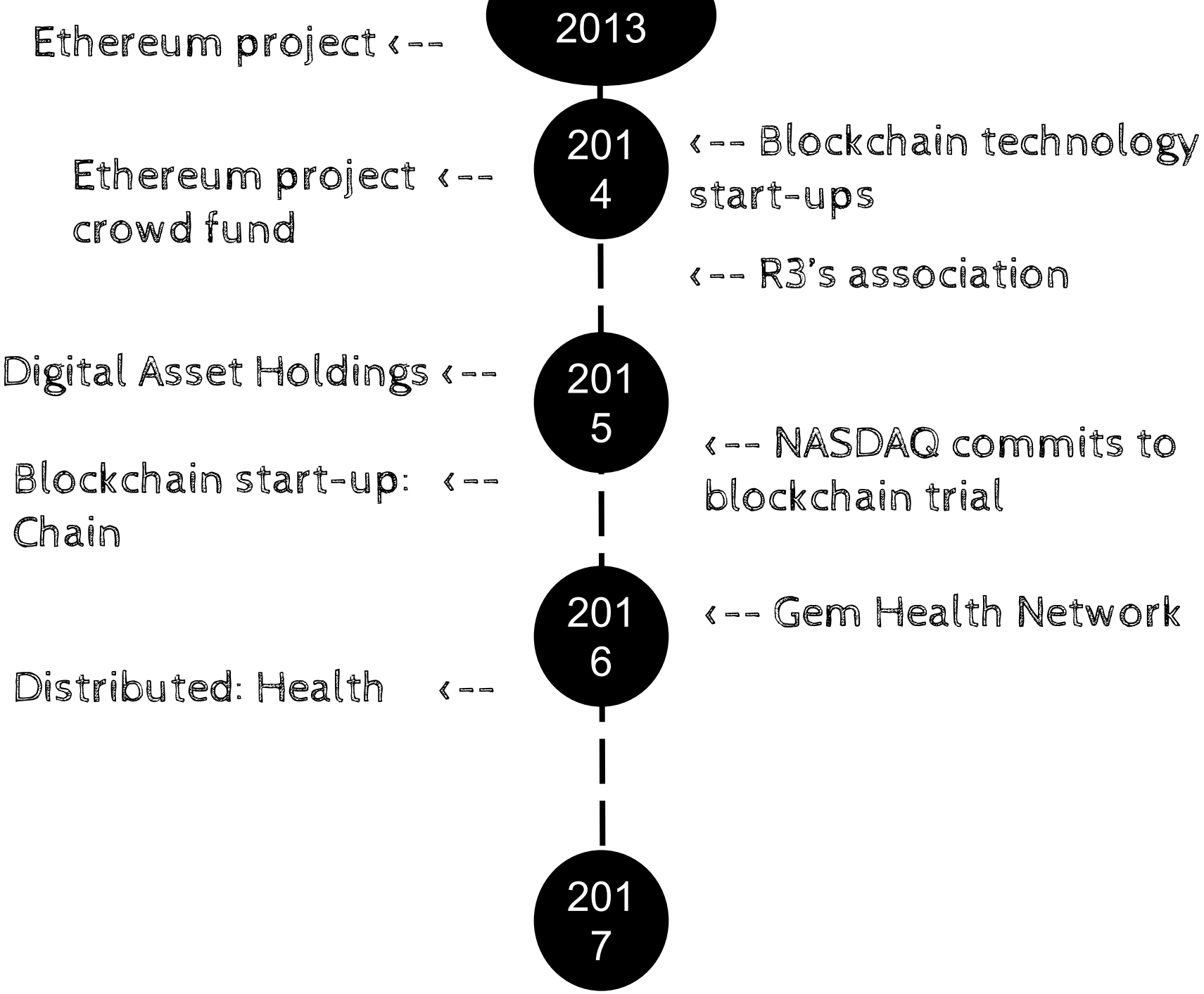
Bitcoin level up!
New high score!
1 BTC => $ 1.00 USD

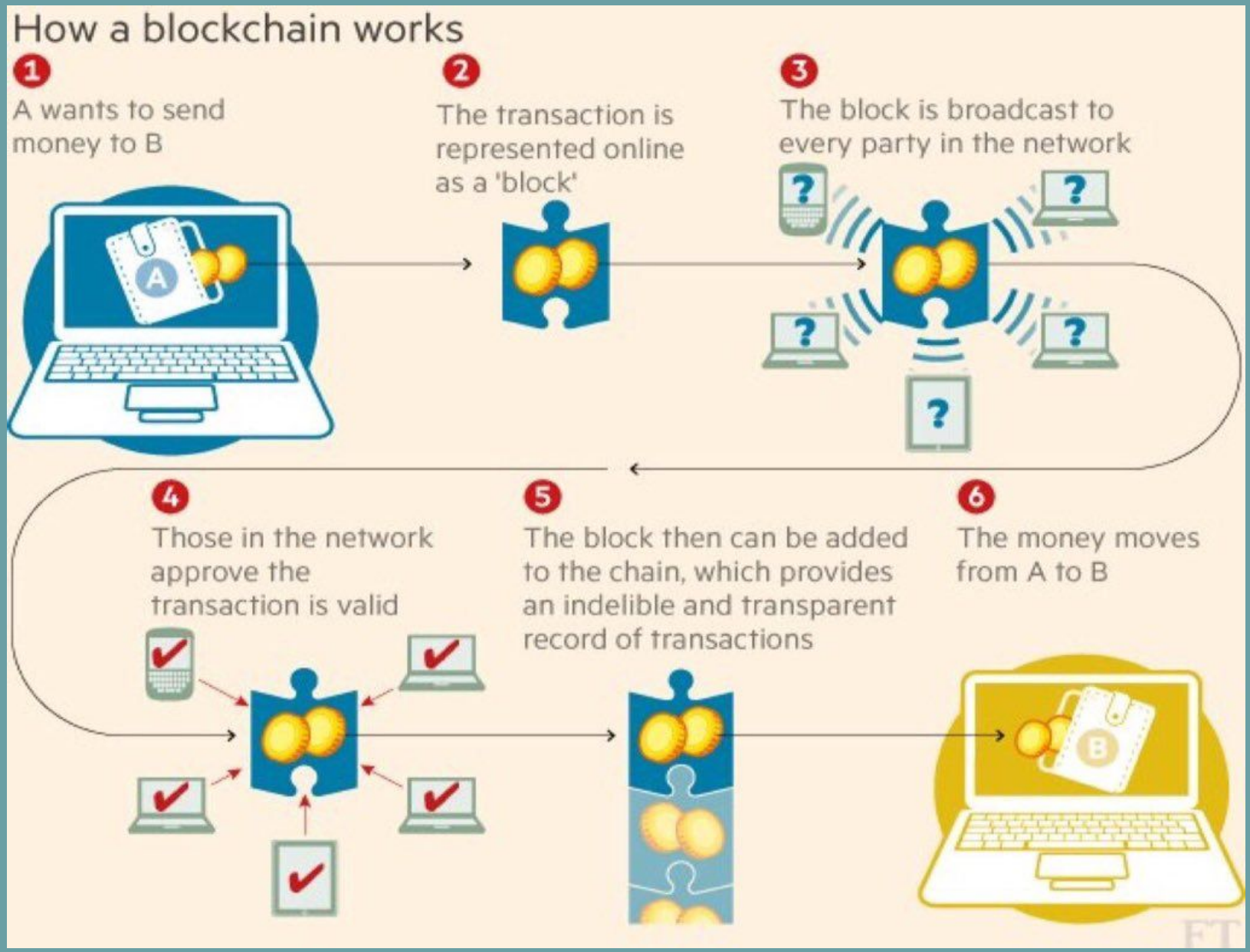
Bitcoin level up!
New high score!
1 BTC => $ 31.91 USD

Bitcoin achieved sufficient popularity!
Bitcoin Magazine has been established!

BTC Market has been upgraded!
Market cap increases to $ 1B USD!!

Blockchain stat emerges!!
Applications of stat has been discovered!!


2013
Ethereum project <--
2014
Ethereum project <-- crowd fund
<-- Blockchain technology start-ups
<-- R3's association
2015
Digital Asset Holdings <--
Blockchain start-up: <-- Chain
<-- NASDAQ commits to blockchain trial
2016
<-- Gem Health Network
Distributed: Health <--
2017


How a blockchain works
1
A wants to send money to B
2
The transaction is represented online as a 'block'
3
The block is broadcast to every party in the network
4
Those in the network approve the transaction is valid
5
The block then can be added to the chain, which provides an indelible and transparent record of transactions
6
The money moves from A to B
A
B
FT

# Where is BlockChain used?

# Bitcoin

- One unit of internet currency
- Decentralized digital currency
- 16 Million in circulation
- 21 Million limit
- 1 Bitcoin = 37,029.94

# Bitcoin ATM

- Two-way bitcoin atm
- Allows buy and sell of bitcoin
- **Sunette Tower Hotel Manila Lobby**

## Bitcoin: WikiLeaks

- Multi-national whistleblower organization
- Analysis and publish of large datasets of censored and restricted official materials

## Bitcoin: Silk Road

- Black market trading site
- Best known as platform for selling illegal drugs

# Who uses BlockChain?

Who will use BlockChain?

## In theory anyone that has internet

- Future of online transactions
- E-commerce

# Tech Firms/Banks

- Microsoft
  - Build business associations
  - Aims to provide blockchain as a service
  - Blockchain consortiums:

    Post- trade distributed ledger group (PTDL)
    Global Blockchain Council (GBC)
    R3CEV

# Other Uses of BlockChain

1

# FILE STORAGE

- A popular company that offers this service is STORJ

FEATURES:

- A file is chopped into smaller pieces and is then encrypted and spread into the network
- The customer has the only copy of the keys

# VERIFIABLE DATA

- Popular companies that provide this service are Proof of Existence and Tierion

FEATURES:

- Able to create a record that cannot be tampered from start to present.

# IDENTITY MANAGEMENT

- Category of Verifiable Data
- A popular company that offers this service is ShoCard

FEATURES

- Verification and Proof of Identity can easily be achieved by using BlockChain
- Select required information for a transaction

# Factors That make it Disruptive

# Game changer

Information

is

**Distributed**

Not

**Coppied**

# This could lead to...

Current:

- Centralized Database
- Banks handles monetary transaction
- Transaction executions are made by service providers

Possible Future:

- Distributed Database
- No middle man required
- Transactions are publicly viewable

# This could lead to (Cont. )...

Current:

- Privacy is enforced
- Notary Public
- Patents, Copyrights, and Trademarks

Possible Future:

- Transparent
- Everybody is a witness
- Proof of existence through blockchain

# And it will affect....

- Banks
- Database storage providers
- Notary Public
- Government

# Legal Issues

## Smart Contracts

- Will it be possible to capture all the elements of a ‘traditional’ contract in a set of computer-coded instructions?

# Data

- Any blockchain system that holds personal data will need to comply with applicable data protection laws.

# Regulatory

- As with any development, it seems likely that legal issues will be resolved in line with existing laws, principles and guidance

# Litigation and Dispute Resolution

- How will the parties determine which laws apply and which forum should be used to resolve disputes?

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