"Blockchain is an open, distributed ledger that can record transactions between two parties efficiently and in a verifiable and permanent way." (Iansiti & Lakhani, 2017). Blockchain data exchange protocol uses distributed ledger technology to facilitate secure sharing of data across networks without the need for intermediaries. Made popular through its use with Bitcoin and other cryptocurrencies, Blockchain has been promoted as a vehicle for managing digital identity across a distributed network.

Businesses struggle to articulate use cases about the problems that they want to solve with blockchain, a clear indication that the market is in its early stages. However, many organizations are actively looking for how they can leverage blockchain technology to gain a competitive edge.

This article shows a simple data flow through a blockchain and provides some sample use cases in the hope that the reader can continue the discussion of how they can leverage this new technology.

Blockchain Data Flow Infographic

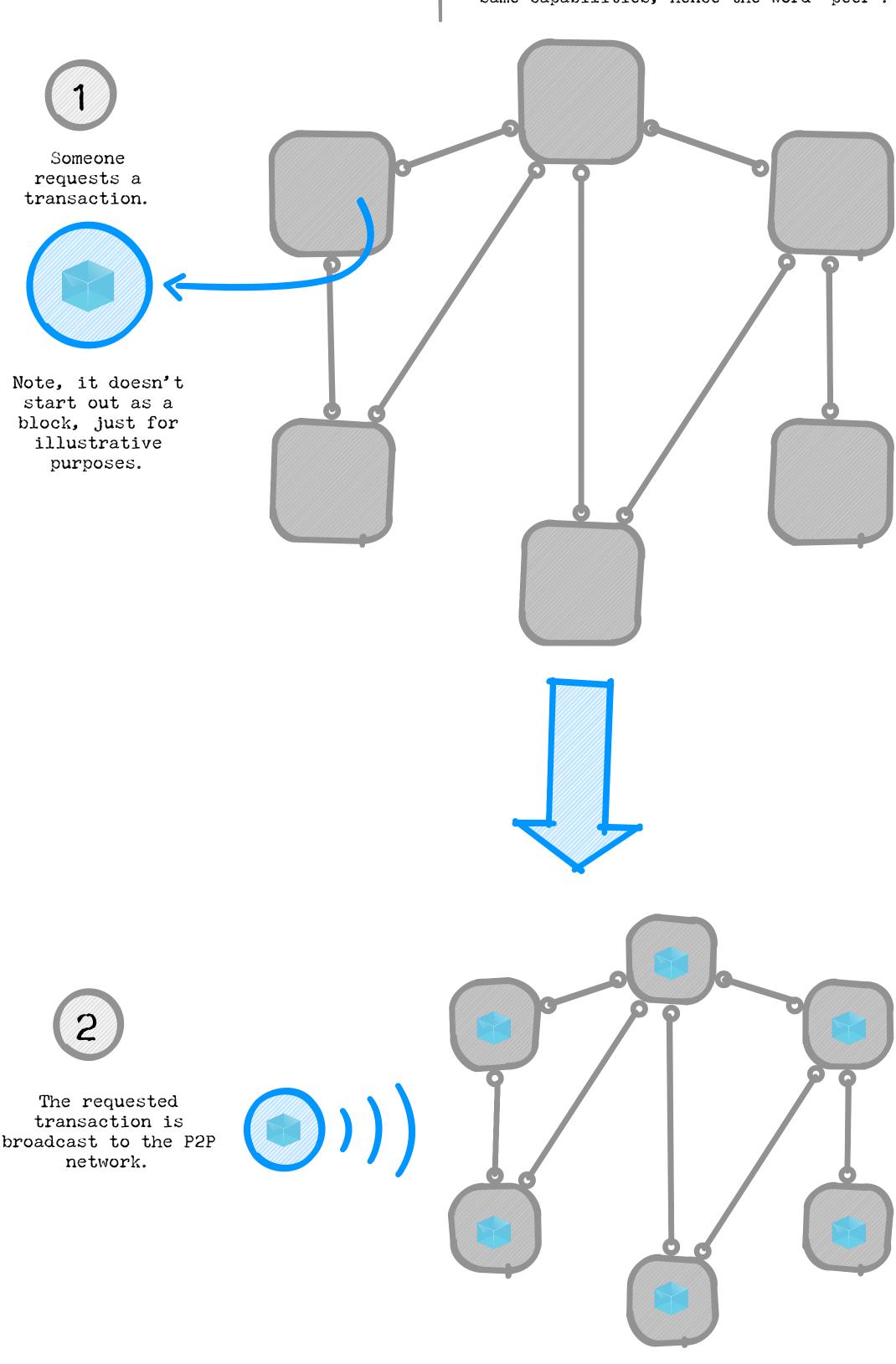
network

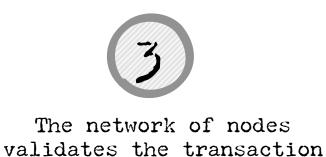
Peer-to-peer/

decentralized

which are interconnected with each other to share data among each other without the use of a centralized computer. Each node has the same capabilities, hence the word 'peer'.

A group of independent computers called nodes





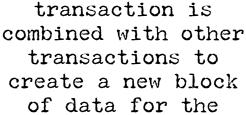
algorithms. Note that not all nodes need to verify the transaction.

Note that a transaction can

involve

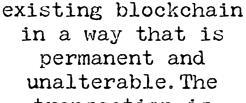
and the user's status using known

cryptocurrency,
contracts,
records or any
other
information.



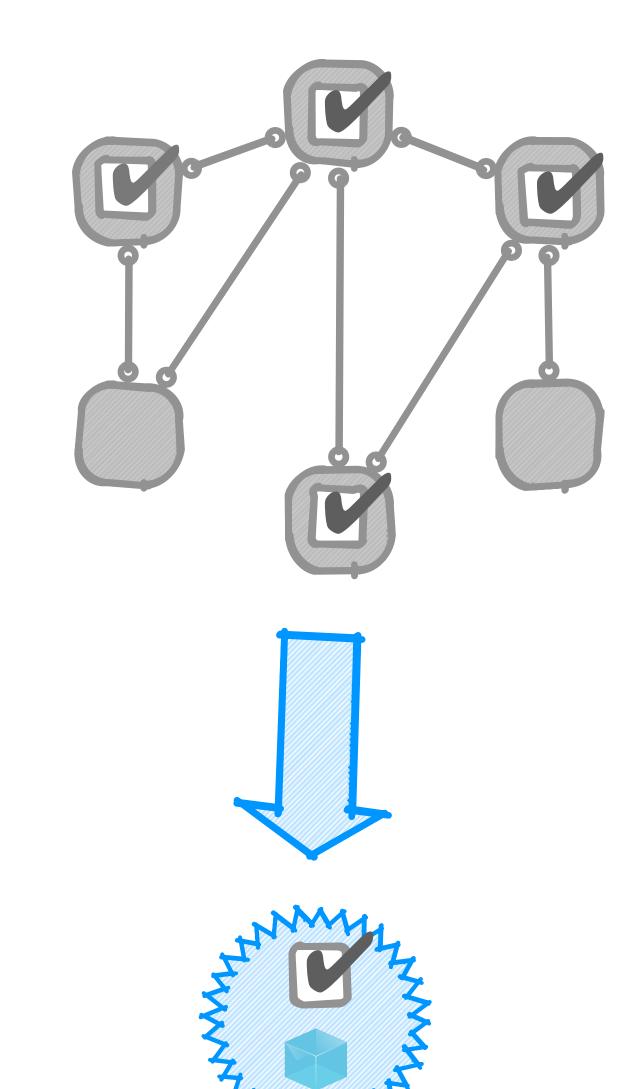
Once verified the

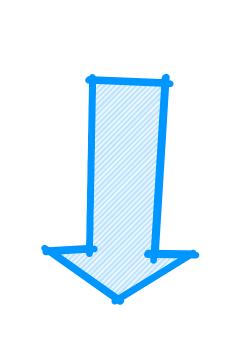
of data for the ledger.



The new block is added to the

transaction is completed.





Uses



"The blockchain is an incorruptible digital ledger of economic transactions that can be programmed to record not just financial transactions but virtually everything of value."

Don and Alex Tapscott, authors Blockchain Revolution

Most of your ownership records are stored in paper ledgers. These can

Walmart
experimented
piggishly with
blockchain's
capabilities to
follow pork
meat from farms

overseas to

customers.

Represent these records using blockchain protocol can eliminate physicality and enable transparency of alterations.

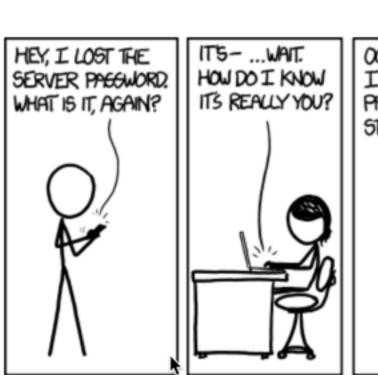
Digital

be altered without your knowledge.

(chadless)
voting can be a
reality using
blockchain.

With Blockchain you don't
have to build your own
identity infrastructure,
you can use Ethereum's open
Blockchain to store the
identity details. Anyone
who wants to verify just
has to query the open

Blockchain.





(2016)

Cartoon Credit:

xkcd.com