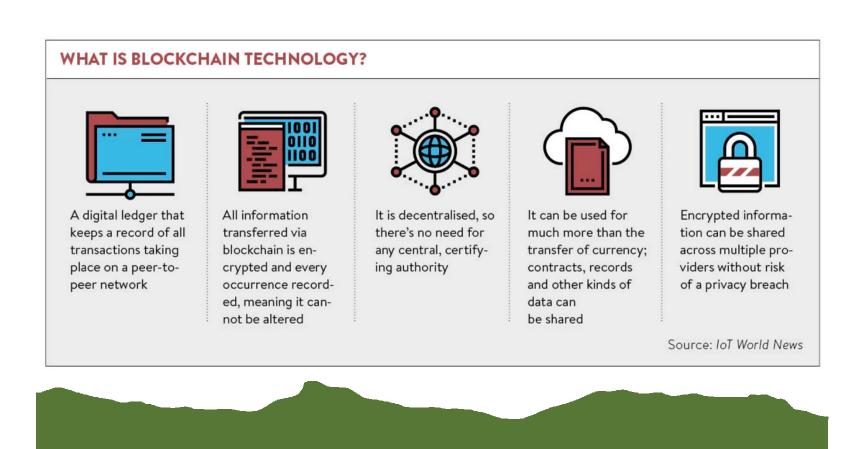


Blockchain Basics Agency of Digital Services

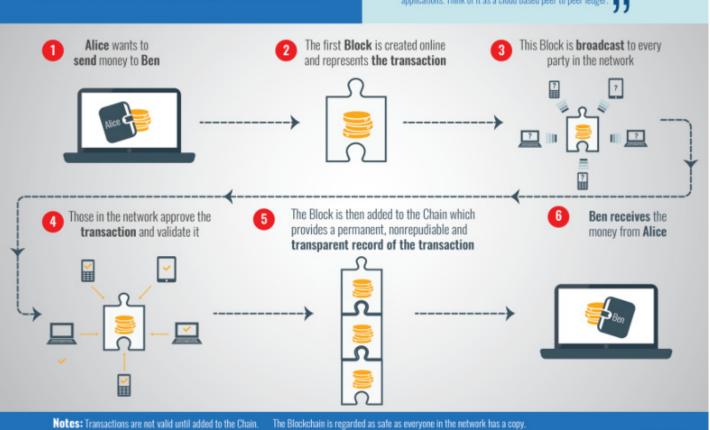


**Blockchain** is a decentralized "append-only" peer-to-peer public ledger, where transactions (Blocks) are linked and secured using cryptography. Participants all receive complete copies of the ledger and reconcile the ledger through group polling.





A Blockchain is a cloud based database shared by every participant in a given system, in the case of this exemplar, its a currency trade. The Blockchain contains the complete transaction of the cryptocurrency or other record keeping in other applications. Think of it as a cloud based peer to peer ledger.



Notes: Transactions are not valid until added to the Chain. Tampering is immediately evident. The Blockchain is regarded as safe as everyone in the network has a copy. The Source of any discrepancies are usually evident immediately.

@PDForrest

## **Details to Know**

- Transactions are broadcast to all participants
- "Miners" are participants who provide additional computational resources to settle, audit and reconcile transactions.
- With Bitcoin Miners are compensated for their resource allocation.
- Without Bitcoin or another asset to reward miners appointed validator officials/systems are required.
- Blockchain is ill-suited for storing large amounts of data; inefficient data insert/retrieval compared to Relational Databases



## Where is Blockchain Useful

