

Blockchain



Definition

Blockchain is a method of storing data, in which the location of storage, the way the data grows and changes, and who has control over data is different from most traditional systems.

- **How is it different?**

It is a Peer to Peer Decentralized system

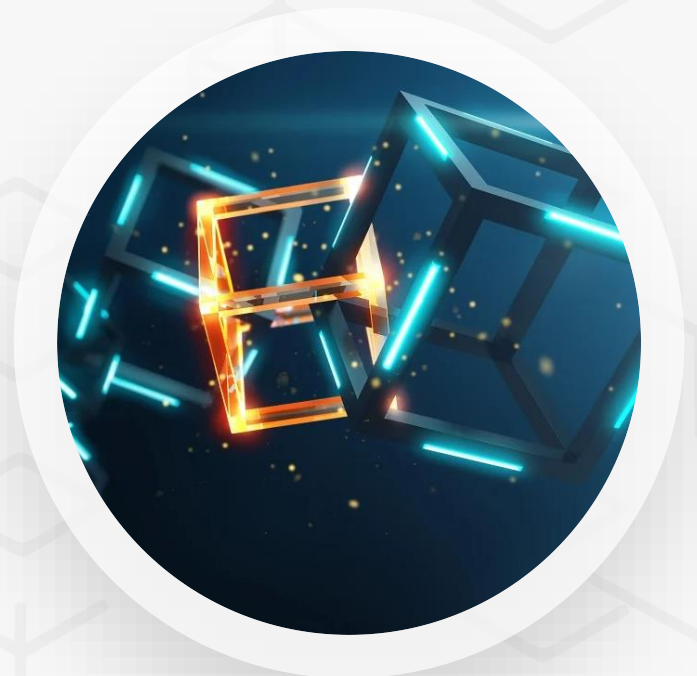
- **How can it work this way?**

Blockchain Technology creates Trust without Trust



Blockchain Properties

- Immutability
- Transparency
- Consensus-based
- Cryptography
- Anonymity
- Decentralization
- Trustless
- Global



Blockchain Challenges

- Scalability

Bitcoin handles about 7 TPS while Visa may do more than 2000 TPS

- Cost (Transaction fees)
- Transaction confirmation is not Realtime
- Adoption and integration barriers
- Centralization by Mining Pools
- Regulatory uncertainty
- Energy consumption
- Privacy



Financial Services

Some examples of how blockchain is being used in finance:

- Payments
- Clearing and settlement
- Trade finance



Supply Chain Management

Some examples of how blockchain is being used in supply chain management :

- Tracking the movement of goods
- Ensuring the authenticity of products
- Improving collaboration



Healthcare

Some examples of how blockchain is being used in healthcare:

- Storing and sharing medical records
- Managing clinical trials
- Tracking the supply chain of pharmaceuticals
- Paying for healthcare services



Government

Some examples of how blockchain is being used in government:

- Voting
- Land registry
- Supply chain management
- Healthcare
- Employment



Gaming

There are a number of factors driving the growth of blockchain gaming, including :

- NFTs, or non-fungible tokens
- The rise of play-to-earn games
- The increasing availability of blockchain-based gaming platforms



Storage

Some of the factors that are expected to drive the growth of the blockchain-based storage market:

- Increasing demand for secure and decentralized storage solutions
- Growing adoption of blockchain technology
- Increasing popularity of decentralized applications (dApps)
- Government initiatives
- Rising investments in blockchain startups
- Technical advancements



Blockchain Innovations

- Interoperability
- Cross-chain communication
- Scalability solutions
 - ❖ Layer 2 solutions
 - ❖ Sharding
 - ❖ Proof-of-stake consensus
 - ❖ Side-chains



Future of Blockchain

- Increased adoption
- Integration with other technologies (like IoT)
- Regulatory challenges
- Evolution of blockchain technology



BURNA

Innovation Bridge

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