

# Blockchain Technology: Revolutionizing the Digital World

Blockchain technology is transforming industries by creating secure, transparent, and decentralized systems.

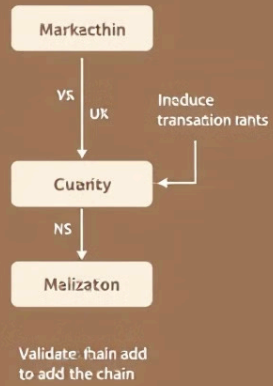


# What is Blockchain?

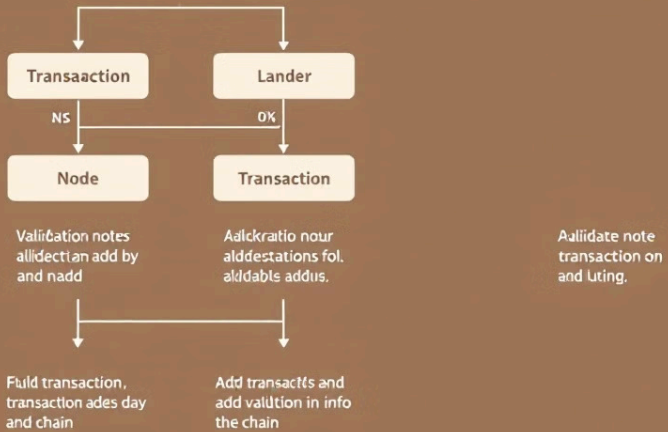
A blockchain is a distributed ledger that records transactions in a secure and transparent way. It's like a digital record-keeping system that's shared across a network of computers, eliminating the need for a central authority.

Think of it as a shared, immutable database that stores information in blocks, which are then linked together in a chronological chain. Each block contains a timestamp, transaction data, and a hash of the previous block.

### Blockchain Flow Mitblins



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# How Blockchain Works

- 1 — Transactions are initiated and broadcast to the network.
- 2 — Nodes on the network verify the transaction and add it to a block.
- 3 — The block is added to the chain after reaching consensus among the network.

# Key Benefits of Blockchain

## Security

Blockchain's decentralized nature and cryptographic security make it highly resistant to tampering and fraud.

## Transparency

All transactions are recorded and publicly accessible, fostering trust and accountability.

## Efficiency

Blockchain streamlines processes by eliminating intermediaries and reducing transaction times.

# Blockchain With Blockchain Applications



## Cryptocurrency

Cryptocurrency is an alternative to fiat currency, used for transactions and payments. It is based on blockchain technology.

## Supply Management

Blockchain can be used for supply chain management, tracking goods from origin to destination, ensuring transparency and authenticity.

## Healthcare

Blockchain can be used in healthcare for secure storage and sharing of patient records, ensuring privacy and security.



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## Records

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# Popular Blockchain Applications



## Cryptocurrencies

Bitcoin and Ethereum are leading examples of cryptocurrencies built on blockchain technology.



## Supply Chain Management

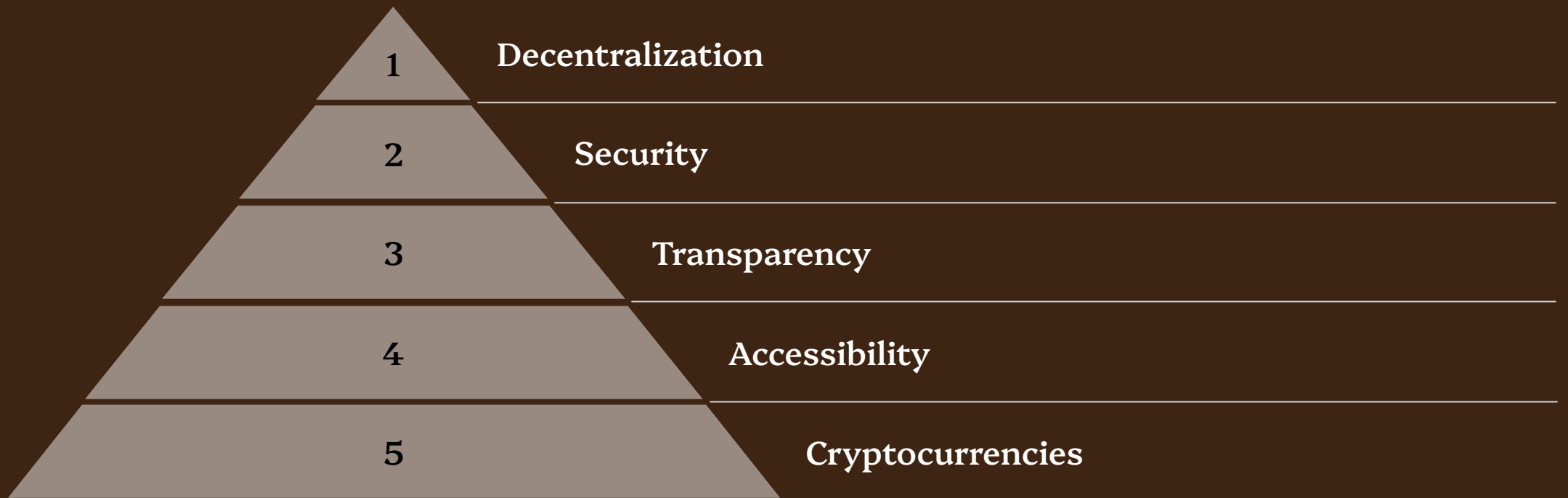
Blockchain tracks products from origin to destination, ensuring transparency and authenticity.



## Healthcare Records

Securely storing and sharing patient medical records while maintaining privacy.

# Cryptocurrencies and Blockchain



# Challenges and Limitations of Blockchain

1

## Scalability

Handling a large volume of transactions efficiently can be challenging.

2

## Regulation

The regulatory landscape surrounding blockchain technology is still evolving.

3

## Energy Consumption

Some blockchain networks require significant energy to maintain security.



# The Future of Blockchain Technology

