

Overview of
**BLOCKCHAIN
PROTOCOLS**
and their potential
use cases

BITCOIN

THE ORIGINAL



Advantages:

- Secure and decentralized
- Immutable and transparent transaction history
- Limited supply, making it a deflationary asset

Disadvantages:

- Slow transaction processing time
- High transaction fees during peak usage
- Limited smart contract functionality

Potential Use Cases:

- Secure and decentralized
- Immutable and transparent transaction history
- Limited supply, making it a deflationary asset

ETHEREUM

SMART CONTRACTS



Advantages:

- Smart contract capabilities
- Faster transaction processing times compared to Bitcoin
- Large developer community and ecosystem

Disadvantages:

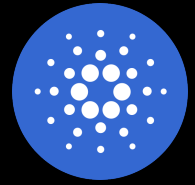
- Vulnerable to security issues in smart contracts
- Limited scalability with current architecture
- Proof of Work consensus mechanism not energy-efficient

Potential Use Cases:

- Decentralized applications (dApps)
- Decentralized finance (DeFi) applications
- Non-fungible tokens (NFTs)

CARDANO

SUSTAINABILITY



Advantages:

- Advanced proof-of-stake consensus mechanism for energy efficiency
- Strong focus on security and academic research
- Scalability solutions in development

Disadvantages:

- Limited adoption and smaller ecosystem compared to Ethereum
- Limited smart contract functionality at present
- Less battle-tested compared to more established protocols

Potential Use Cases:

- Decentralized finance (DeFi) applications
- Identity verification
- Supply chain management system

POLKADOT

INTEROPERABILITY



Advantages:

- Interoperability between different blockchain networks
- Scalability solutions through sharding
- Customizable and adaptable network architecture

Disadvantages:

- Less battle-tested compared to more established protocols
- Governance model and token economics still in development
- Limited adoption and smaller ecosystem compared to Ethereum

Potential Use Cases:

- Interoperable applications across multiple blockchains
- Decentralized exchanges
- Gaming and digital collectibles

SOLANA

INFRASTRUCTURE



Advantages:

- Fast transaction processing times
- Low transaction fees
- Smart contract capabilities and developer-friendly tools

Disadvantages:

- Less battle-tested compared to more established protocols
- Centralized validator nodes
- Governance model and token economics still in development

Potential Use Cases:

- Decentralized finance (DeFi) applications
- NFT marketplaces
- High-frequency trading

EOS

SCALABILITY



Advantages:

- Fast and scalable which can handle thousands of transactions per second
- Low transaction fees
- Build flexibly complex dApps by using various programming languages

Disadvantages:

- Centralization concerns relying on 21 block producers to validate transactions
- Security
- Technical complexity which may require more expertise from developers

Potential Use Cases:

- Gaming dApps
- Decentralized social media platforms
- Supply chain management systems
- Decentralized finance (DeFi) applications



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