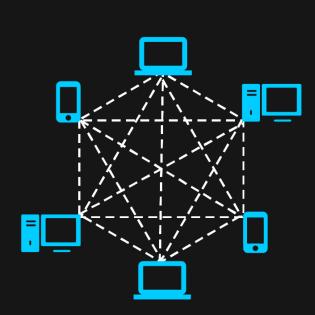
Blockchain Digital Transformation



Public vs Private Blockchain Network



Public Blockchain: Permissionless

An open network system where all the devices can freely access without any kind of permission. The ledger is shared and transparent.



Private Blockchain: Permissioned

A user has to be permitted by the blockchain authority before he/she could access the network. The user might join only if he/she gets an invitation.





Key Features

- Trustless
- Decentralized
- Distributed
- Consensus Based
- Faster

Secured

Blockchain Digital Transformation

101 Blockchains | KEY FEATURES OF BLOCKCHAIN TECHNOLOGY

CANNOT BE CORRUPTED

Every node on the network has a copy of the digital ledger. To add a transaction every node needs to check its validity. If the majority thinks it's valid, then it's added to the ledger. This promotes transparency and makes it corruption-proof.

DECENTRALIZED TECHNOLOGY

The network is decentralized meaning it doesn't have any governing authority or a single person looking after the framework. Instead, a group of nodes maintain the network making it decentralized.

ENHANCED SECURITY

02

03

05

As it eliminates the need for central authority, no one can just simply change any characteristics of the network for their benefit. Also using encryption ensures another layer of security for the system.

DISTRIBUTED LEDGERS

The ledger on the network is maintained by all other users on the system. This distributes the computational power across the computers to ensure a better outcome.

CONSENSUS

Every blockchain thrives because of the consensus algorithms. The architecture is cleverly designed, and consensus algorithms are at the core of this architecture. Every blockchain has a consensus to help the network make decisions.

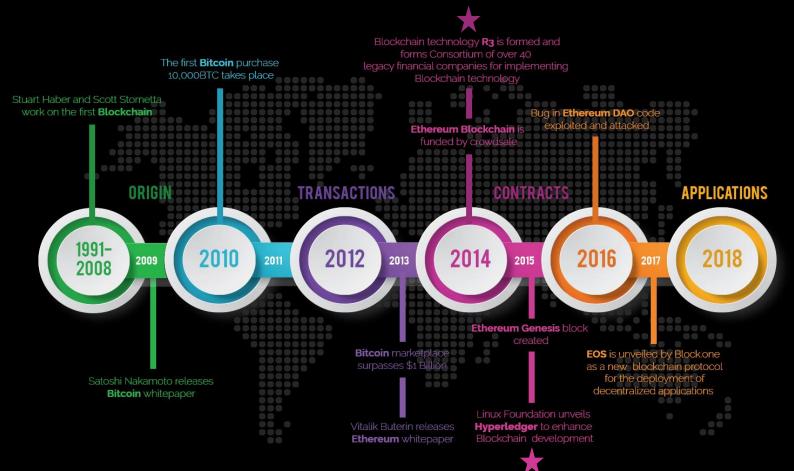
FASTER SETTLEMENT

Blockchain offers a faster settlement compared to traditional banking systems. This way a user can transfer money relatively faster, which saves a lot of time in the long run.

BLOCKCHAIN FEATURES



THE HISTORY OF BLOCKCHAIN TECHNOLOGY



Types of Blockchains

Network Type:

01 Blockchains

Public
Private
Federated

Permission Level:

- Permissioned
- Permissionless

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101 Blockchains DIFFERENT TYPES OF BLOCKCHAIN TECHNOLOGY FOR ENTERPRISES

GENERAL CLASSIFICATION

👰 Private Blockchain

🏾 Public Blockchain

🎋 Federated Blockchain

PERMISSION-LEVEL CLASSIFICATION

Permissioned Blockchain

Permissionless Blockchain

Offers lower transaction fees Network regulations

No criminal access

Saves a lot of costs

- Suited for organizations
- Transaction rates are low
- Isn't required to have a native asset

WHY USE THIS?

• Power efficient compared to the

Organizational empowerment

True decentralized structure

Preserves privacy

public blockchainLess volatile network

• Greater transparency

User empowerment

Immutability

- More power for the nodes
- Open privacy level for everyone
- Free participation in voting or consensus

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Use Cases Value > Implementation Challenges

- Trade Finance
- Food Safety
- Supply Chain
- Retail 🔿
- Government Services
- Intellectual Property
- Healthcare
- Insurance
- Oil & Gas
- Real Estate
- Travel

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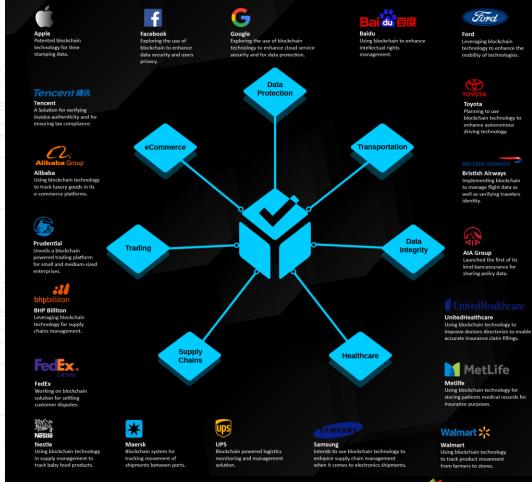
Non-financial Enterprises

- Ford
- Toyota
- Walmart
- Nestle
- Metlife
- Prudential
- Maersk
- FedEx
- Facebook

And more...

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Enterprises Which Are Implementing Blockchain Technology



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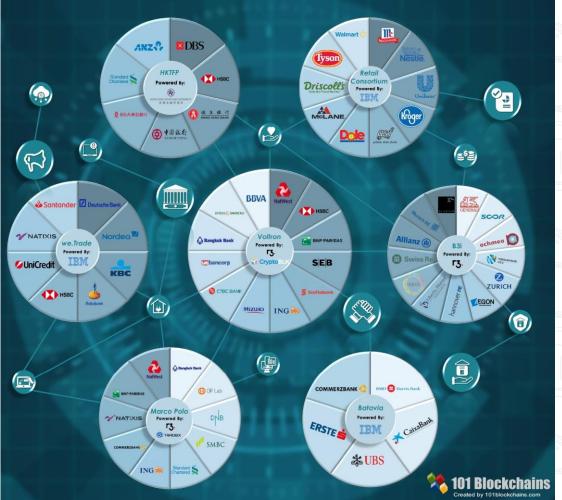


Federated Networks

- Finance
 - we.Trade (IBM)
 Volton (Corda)
 Marco Polo (Corda)
 - Batavia (IBM)
- Insurance

- B3i (Corda)
- Retail Retail Consortium(IBM)

FEDERATED BLOCKCHAINS ECOSYSTEM



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Enterprise Blockchains

BaaS Vendors:

- IBM
- ORACLE
- AWS
- ALIBABA
- ACCENTURE

Enterprise Platforms:

- Fabric
- Corda
 - EEA Quorum
- Ripple

VENDORS THAT PROVIDE BAAS

UAW

BAIDU

LIBABA

ORAC

Microsoft

TRM

Bai de 百度

EL

ORACLE

Alibaba co



LATFORMS 🔩 ripple ETHEREUM ENTERPRISE Quorum FABRIC

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Hyperledger Ecosystem

FDA

- London Stock Exchange • SAP
- Change Healthcare ANZ
- UBS

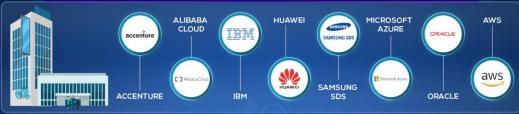
CLS

T-Mobile

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101 Blockchains Hyperledger ECOSYSTEM AND VISION

HYPERLEDGER BAAS VENDORS



REAL-WORLD COMPANIES USING HYPERLEDGER PROJECTS



WIDESPREAD INTEGRATION Hyperledger wants to establish a large-scale integration and promotion of blockchain technology

1 VISION OF EDGER

LONG-TERM HYPERLE

COLLECTION OF TOOLS They want to create a set of tools that

anyone can use to develop more blockchain projects with a good community backup.

INTERCHANGEABLE

They want to offer more interchangeable modules for the developers to promote flexibility.

COLLABORATION WITH COMPETITION

Collaborating with other competition Hyperledger wants to grow the community instead of clashing with them.



Healthcare

Challenges

- Drug CounterfeitData Management
- Use Cases
- Drug Traceability
 - Clinical Trials
 - Data ManagementClaim & Billing

The current blockchain trend is serving the healthcare industry in many ways – better supply chain, resolving drug counterfeit, improved data storage, and security

CHALLENGES OF The current healthcare system

- Drug counterfeit
- Data segmentation
- Poor management
- Healthcare security and data storage



HOW BLOCKCHAIN CAN Solve Healthcare Issues

- Interoperability
- Security
- Maintenance cost
- Data integrity
- Universal access

Solves drug counterfeit by providing time-stamped and immutable transactions across the supply chain.

DRUG TRACEABILIT

PATIENT DATA

Blockchain can be used to manage and store patient data securely. This improves personalized and on-point treatments.





Improve clinical trial monitoring and effectiveness by removing frauds and data manipulation. This will further improve healthcare by a long shot.



By removing intermediates, blockchain can improve both claim and billing aspects of the healthcare industry.



Government Services

Already adopting:

- USA
 UK
 Switzarland
- Switzerland
- Estonia
- Dubai
- India
- Chile
- Singapore And more...

Blockchain Digital Transformation

101 Blockchains BLOCKCHAIN FOR **GOVERNMENT SERVICES**





Remember

- Decentralized Internet
- No Central Authority
- Data Flow
- New Business Models

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Centralized vs Decentralized Internet

BEFORE

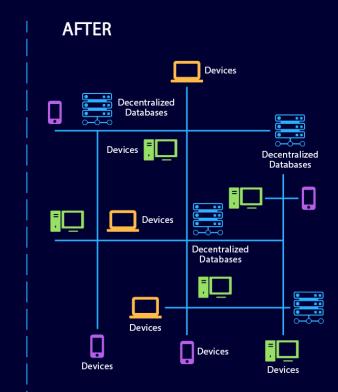




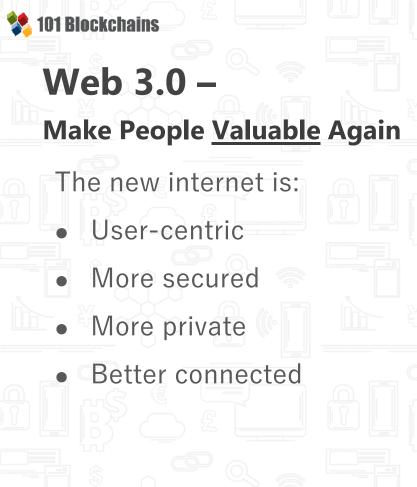




Devices







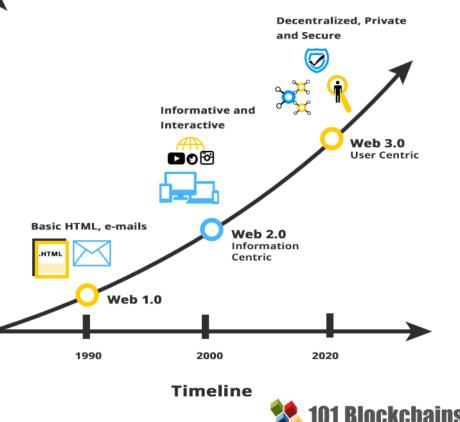
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Application

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The History of the Web



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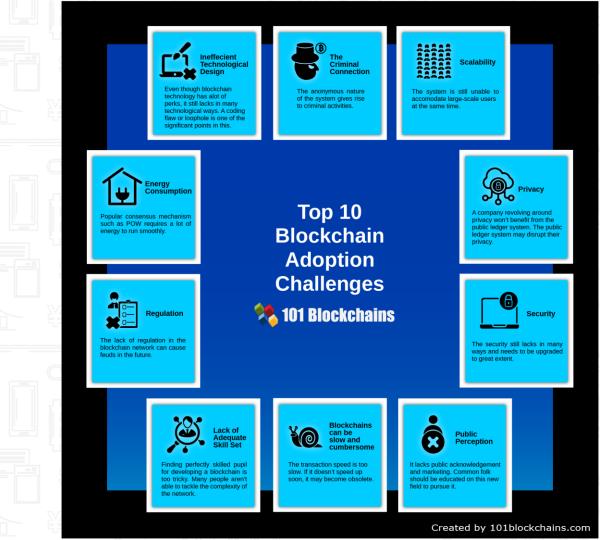
Top Blockchain Adoption Challenges

Human Factors:

Regulations

1 Blockchains

- Criminal Connection
- Public Perception
- Skill Set
- Technological Design **Technological Factors:**
- Scalability
- Performance
- Energy Consumption
 - Privacy
 - Security



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Transformation Playbook

- 1. Start Small
- 2. Build A Task Force
- 3. Train & Educate
- 4. Develop Strategy
- 5. Communications

Blockchain Digital Transformation

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IN 2024, THE BLOCKCHAIN MARKET IS EXPECTED TO REACH \$20 BILLION FROM \$400 MILLION IN 2017





- 1. Extend Your Knowledge
- 2. Partner With Us
- 3. Work With Us

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