# **Potential Disruptions**

**Blockchain Use Cases** 



## **EDUCATION**

- Increase in fraudulent certificates
- Blockchain can be used to check the validity of certificates
- KBA Certichain



University can issue a certificate with a unique code and store the necessary details in blockchain



Anyone can verify the credibility either by scanning QR code or by a verification portal



## Certichain







hash are generated



Certificates and



Issuer signs the transaction





Write the hash into the blockchain



Scan OR code on certificate



Redirect to the

verification portal







Fetch the hash from the blockchain





Compare the hashes from the blockchain and certificate data





Verified certificate is produced



# Sign A Doc















Upload document

Add signees in hierarchical order and send notification

Signees sign the document in the hierarchical order

Final document hash is added to the blockchain



















Visit the verification portal

Enter the document ID

Fetch document hash from the blockchain

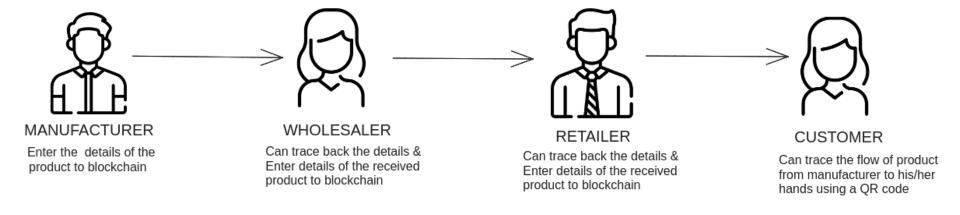
Compare the hashes from the blockchain and document data

Verified document is produced along with audit trail



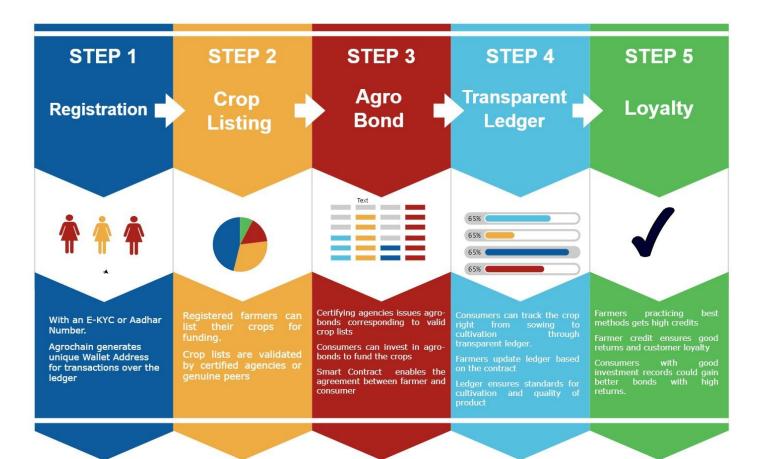
### **SUPPLY CHAIN**

Track the life cycle of a product from the manufacturer to the end user





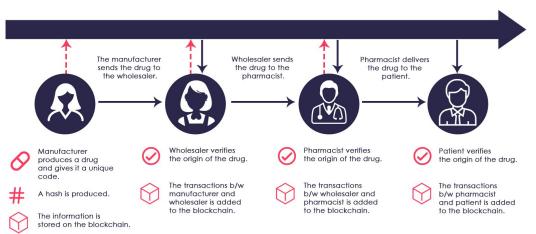
#### **AGROCHAIN**





## **HEALTHCARE**

- Single ledger for patient data shared across different healthcare providers.
- Drug or medicine traceability from manufacturers to end consumers.
- Vaccine traceability ledger from clinical trials to final regulatory approval.



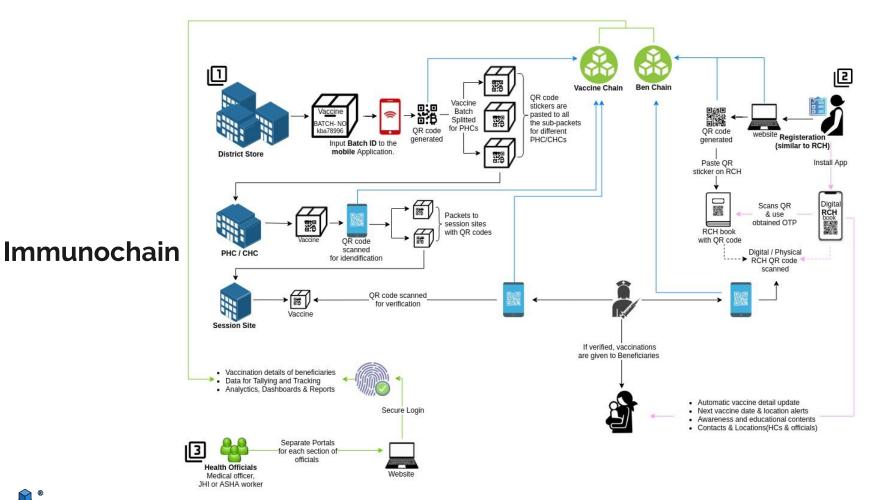


# **Blockchain Vaccine Traceability**



- As a solution to the improvement of the immunization status of the country and create proper monitoring of the program, Kerala Blockchain Academy has developed-Immunochain.
- This project aims to provide an immutable identity for the supply side (vaccines) and beneficiary side (mother & child) under the Universal Immunization Program (UIP).
- The real-time data of the vaccine administrations received through **Immunochain** is intended to be beneficial for the healthcare officials to improve the effectiveness and coverage of the immunization process.







# **GOVERNMENT SECTOR**

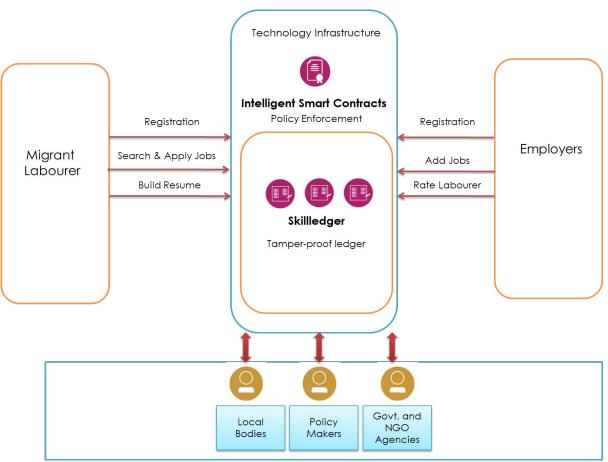
- Land Records
- Welfare Distribution
- Digital Identities





#### **SkillChain**

An Inter-State Migrant Job Portal





# **ART**

- Problems faced by artists
  - Ownership issue
  - Lack of provenance
  - Unavailability of market
- NFT
- Advantages
  - Digital ownership
  - Provenance
  - **Global Market**
  - Royalty



Beeple - Mike Winkelmann

#### Beeple sold an NFT for \$69 million

Through a first-of-its-kind auction at Christie's



# **Crypto Collectables**

The most direct and no brainer use case of blockchain in gaming.

The crypto collectables are mainly in game objects (assets) that use blockchain for the following features:

- Ownership of the object.
- Guarantee the Rarity of the object.
- Ensure the uniqueness and non duplicability of an object.











# **Games in Blockchain: CryptoKitties**



CHEAP









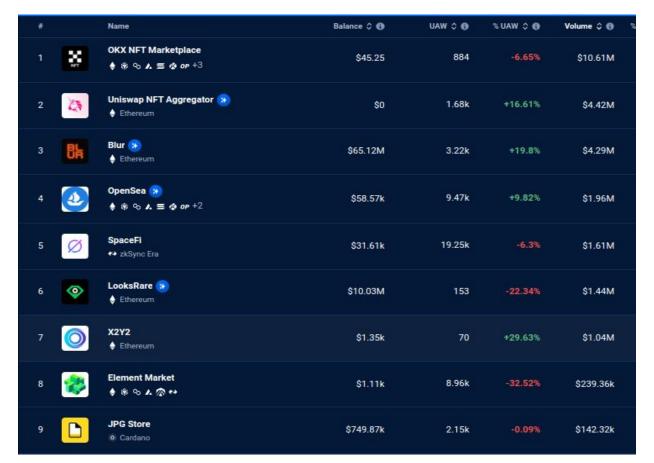








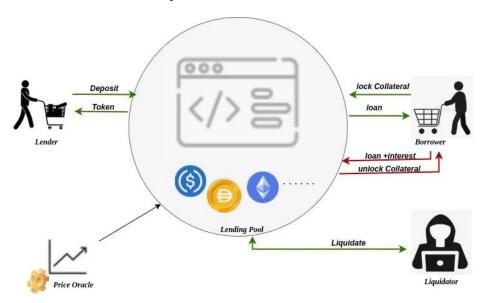
#### **NFT Marketplaces**





# **FINANCE**

- Reduce opacity of financial activity
- Blockchain can make financial transactions transparent
- Lending & Borrowing





### DeFi Apps: DappRadar.com

1	SMPLE	SimpleFX  thereum	\$0.409	4.18k	+1.01%	\$250.59M
2	8	PancakeSwap V3 😣	\$268.47M	62.43k	+6.24%	\$180.15M
3	8	1inch Network ③  ♦ ® ⇔ 🛦 🕸 ® or +3	\$27.45k	13.95k	-11.37%	\$115.26M
4	0	Odos ♦ ® ⇔ & ® op ॡ +2	\$91.97k	20.33k	-5,23%	\$53.66M
5	*	Stargate 😘	\$378.09M	53.34k	-4.3%	\$42.21M
6	6	Minswap © Cardano	\$2.63B	2.41k	-57.35%	\$22.78M
7	6	ReactorFusion ◆→ zkSync Era	\$2.5M	6.11k	+6.82%	\$18.68M
8	<b>2</b>	EraLend ◆→ zkSync Era	\$815.89k	9.01k	+11.78%	\$16.97M
9	<b>D</b>	Aave V3 ↔ ♦ % A BB ® OP M	\$6.28M	2.36k	+5.34%	\$15.27M



### **Use Cases**



Ethereum Push Notification Service (EPNS).

A Notification Protocol which enables users (Wallet Addresses) to receive notifications.



Status combines a peer-to-peer messenger, crypto wallet, and web3 browser into a private and secure communication tool.



Polygon is a protocol and a framework for building and connecting Ethereum compatible blockchain networks. Bengaluru-based blockchain technology startup.



**Chainlink** a secure decentralized oracle network.

Built on Ethereum.

Connecting smart contracts to real world events like payments



### Use Cases [Use Case Tracker]



Project Falcon - Streamlined Blockchain Payments and Deployment Solution

To construct and deploy efficient blockchain payment systems.

In-Development



IBM Digital Health Pass

Platform for individuals and organizations to manage and verify health-related information.

In-Production



Corsha's identity-first platform gives organizations full visibility into their APIs and the machines that are accessing them.

In-Production



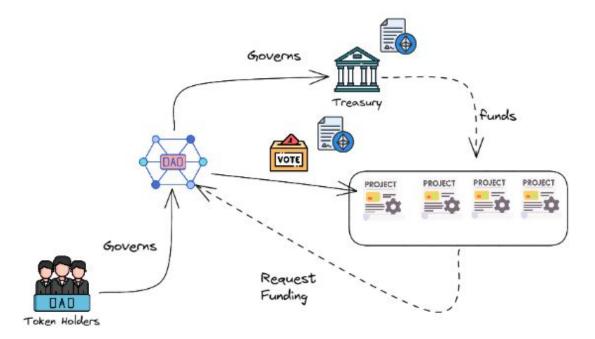
Infosys has partnered with Riverside County, California to reimagine the public records validation.

Verifying credentials and certificates, such as birth certificates, marriage licenses etc

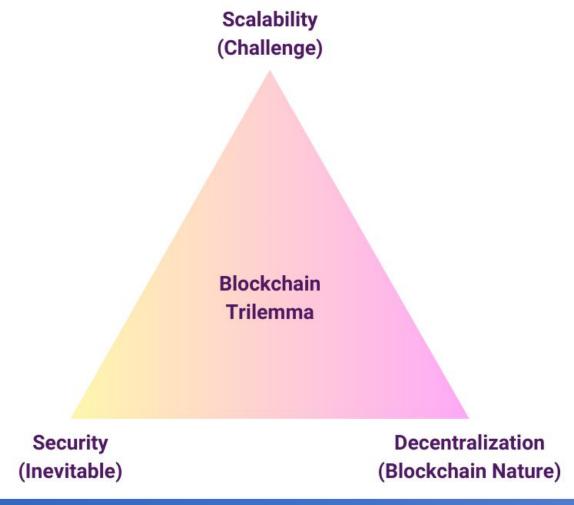


# **Decentralized Autonomous Organizations**

Internet-native organizations that are managed and owned by their members









### From Hype to Adoption

- More than 50% of global organizations view blockchain as a strategic priority.
- Global spending on **Blockchain Solutions** is **\$19 billion in 2024.**(IDC 2020)
- Blockchain Market-size is expected to be \$39 billion in size by 2025. (Cision PR Newswire, 2020)
- There are more **3,000 blockchain startups** registered on AngelList.
- The US accounts for 56% of the global blockchain investments.

An Opportunity for You..?



# **Career Opportunities**



- **Blockchain Development:** 
  - Smart contract development, decentralized applications (dApps), and blockchain infrastructure.
- Crypto and Tokenomics:
  - Tokenomics design and financial analysis.
- Decentralized Finance (DeFi):
  - Developing, managing, and analyzing DeFi protocols and products.



# **Career Opportunities**

- Non-Fungible Tokens (NFTs):
  - Creation, marketing, and management of NFTs in various fields such as art, music and gaming.
- Web3 Marketing and Community Management:
  - Managing online communities, social media, and content creation for Web3 projects.





# **JOB OPPORTUNITIES**

- Blockchain Developer
- Blockchain Analyst
- Blockchain Architect
- Blockchain Quality Engineer
- Blockchain Consultant
- Research & Development
- Community Manager... and many more













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