

Team 5 - Crypto Platforms

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Project 5

Team Projects – Project 5

Your team is involved in designing a new cryptocurrency for a sovereign client.

You have been asked to evaluate crypto platforms for the basis of your currency.

As a substitute fiat currency, the government is mindful of certain processes and regulations that should be supported and continue to operate flawlessly with the new crypto currency regime as well. These include Anti-Money Laundering (AML), know your customer (KYC), and Fraud detection.

What does your team think and would suggest as your team's platform of choice to your client?



Adoption of Cryptocurrencies

U.S. Cryptocurrency Market

Share, by End-use, 2022 (%)



\$1.2B

U.S. Market Size,
2022

Source:
www.grandviewresearch.com

- Cryptocurrencies are gaining popularity as alternatives to regular money
- Governments and banks are focusing more on important issues.
- To adapt, some banks provide crypto services and explore blockchain technology to enhance their systems.



Key Regulatory Considerations



Measures to illegal financial activities.

Essential for maintaining market integrity and public trust.

AML



Processes to verify customer identities.

Helps reduce fraud and ensure compliance with regulations.

KYC



Mechanisms to identify and prevent fraudulent activities.

Critical for protecting users and maintaining system security.

**Fraud
Detection**

Evaluation Criteria

Compliance Features

AML, KYC,
integration, adaptability,
regulations.



Scalability

Handle high number of
transactions and
support user growth.



Security

Strong security to
prevent fraud and
protect user data.



Governance

Flexible governance,
compliance, regulatory
adaptation, and
community input.



Platform 1:



ethereum

Strong Compliance

- Built-in AML, KYC, & fraud detection with smart contracts & dApps.

Widely Adopted

- Trusted platform with global use and a large developer base.

Smart Contracts for Regulation

- Custom solutions for automated compliance.

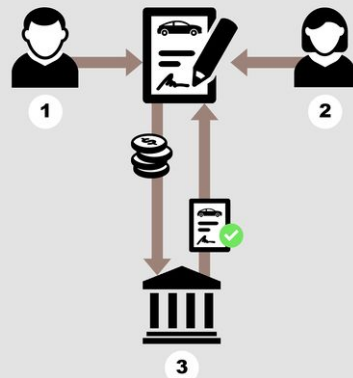
Scalable & Secure

- Ethereum 2.0 offers better scalability & strong security.

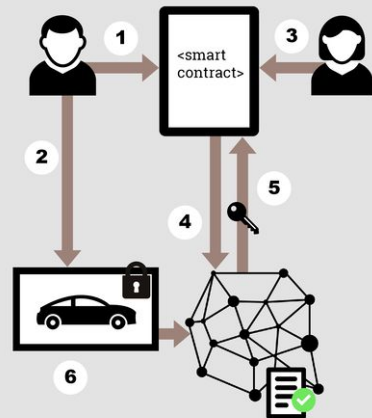
Adaptable

- Continually evolving to meet changing regulations.

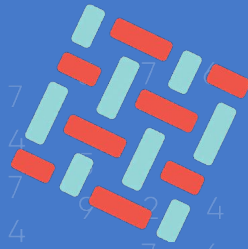
Traditional Contracts



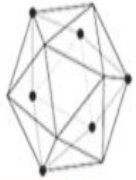
Smart Contracts



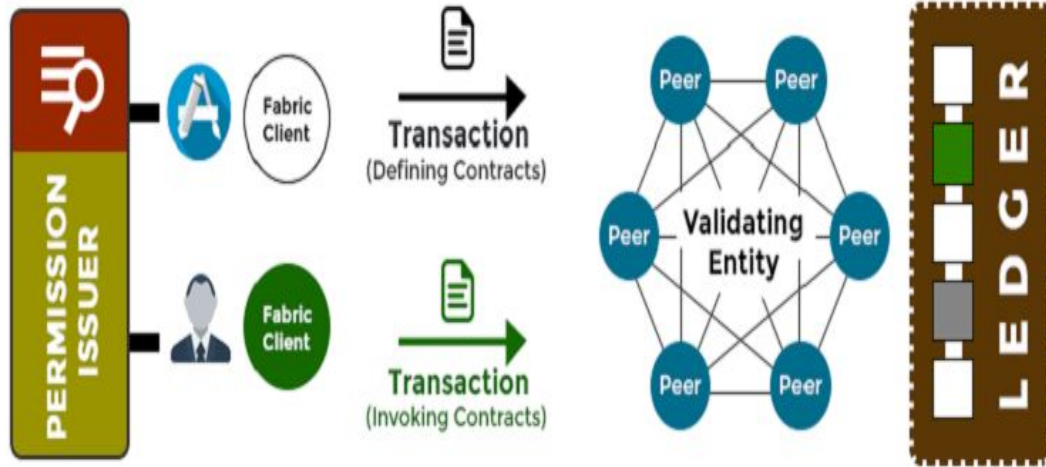
Platform 2:



HYPERLEDGER FABRIC



HYPERLEDGER FABRIC



Permissioned Blockchain

- Secure, private network with trusted participants.

Private Transactions

- Supports KYC & AML compliance.

Custom Governance

- Flexible to meet regulatory needs.

Data Privacy

- Strong access control for sensitive information.

Proven in Enterprise

- Used in government, finance, and supply chain.

Platform 3:



Regulatory Flexibility

- On-chain governance makes it easy to update regulations.

Security

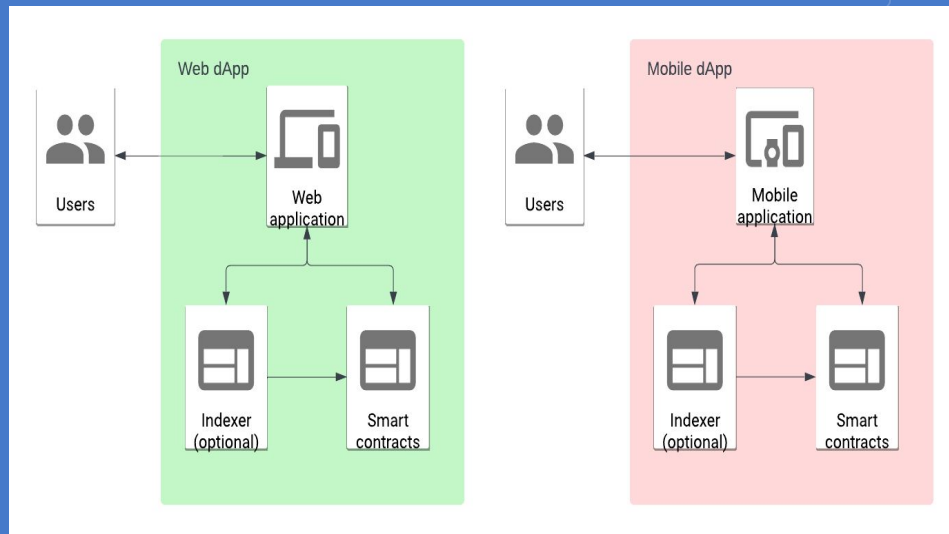
- Traditional methods of verification for secure contracts.

Scalability

- A self-upgrading blockchain system.

Proven Use Cases

- They are used in finance, governance, and NFTs.



Platform 4:

c.rda

Permissioned Blockchain

- Private, trusted networks for government use.

Compliance Focus

- Built-in KYC, AML, and fraud detection.

Privacy

- Private transactions are shared only with relevant parties.

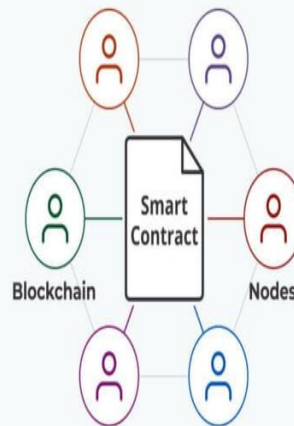
Scalability

- Handles high transaction volumes efficiently.

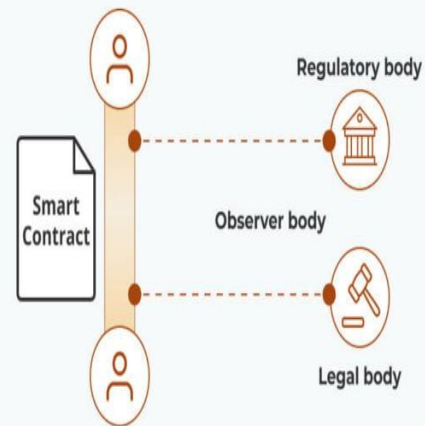
Proven in Finance

- Widely used in banks for secure transactions.

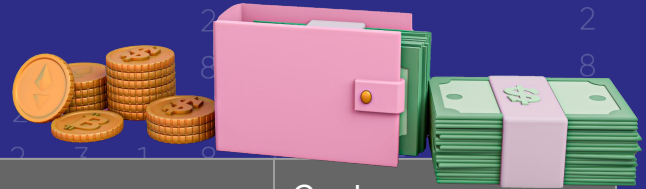
Blockchain



Corda



Comparison



Criteria	Ethereum	Hyperledger Fabric	Tezos	Corda
Compliance Features	Built-in KYC, AML , fraud detection via smart contracts	Built-in KYC, AML , fraud detection	Supports KYC, AML via governance	Built-in KYC, AML , fraud detection
Scalability	Improved with Ethereum 2.0 (PoS)	Highly scalable, enterprise-level	Self-amending, scalable	High transaction volume handling
Security	High security with PoS & Ethereum 2.0	Strong in private networks	Formal verification of contracts	Proven in secure financial transactions
Governance	Decentralized, community-driven	Customizable governance model	On-chain governance	Centralized governance
Adaptability	Easily adaptable via smart contracts	Highly adaptable for regulatory needs	Self-amending for regulatory change	Customizable to meet regulatory needs

Conclusion

In conclusion, Ethereum is the best choice for a cryptocurrency platform due to its strong compliance features, scalability, and security. It supports AML, KYC, and fraud detection, while its proven financial success shows its reliability. Ethereum's flexibility allows it to adapt to changing regulations, making it a solid long-term solution.



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Thanks!
Any questions?