



**SAUDI LAW CONFERENCE**  
**المؤتمر السعودي للقانون**

UNDER THE THEME OF: **REINFORCING A SUSTAINABLE  
AND INCLUSIVE BUSINESS ENVIRONMENT**

## Ethereum - As Opposed to Coins

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# About Speaker

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## Taha Sajid<sup>-PMP®</sup>,<sup>PMI-ACP®</sup>

- **Technology Expert** – Huawei Technology
- **Chief Technical Consultant**– Trustti, ASTC
- **Director-Blockchain Solutions** – Prudential Advisory, PAK
- **Certified Blockchain/Agile/Fintech/5G Trainer**
- **Keynote Speaker** – Blockchain/Fintech Summits

Helped a no of companies to generate million dollar funding, built successful business models and Solution Architecting for Blockchain/Fintech Projects



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## Objectives

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Principle of Smart Contract

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Understanding Ethereum

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Use case Demo – Real Estate Transaction

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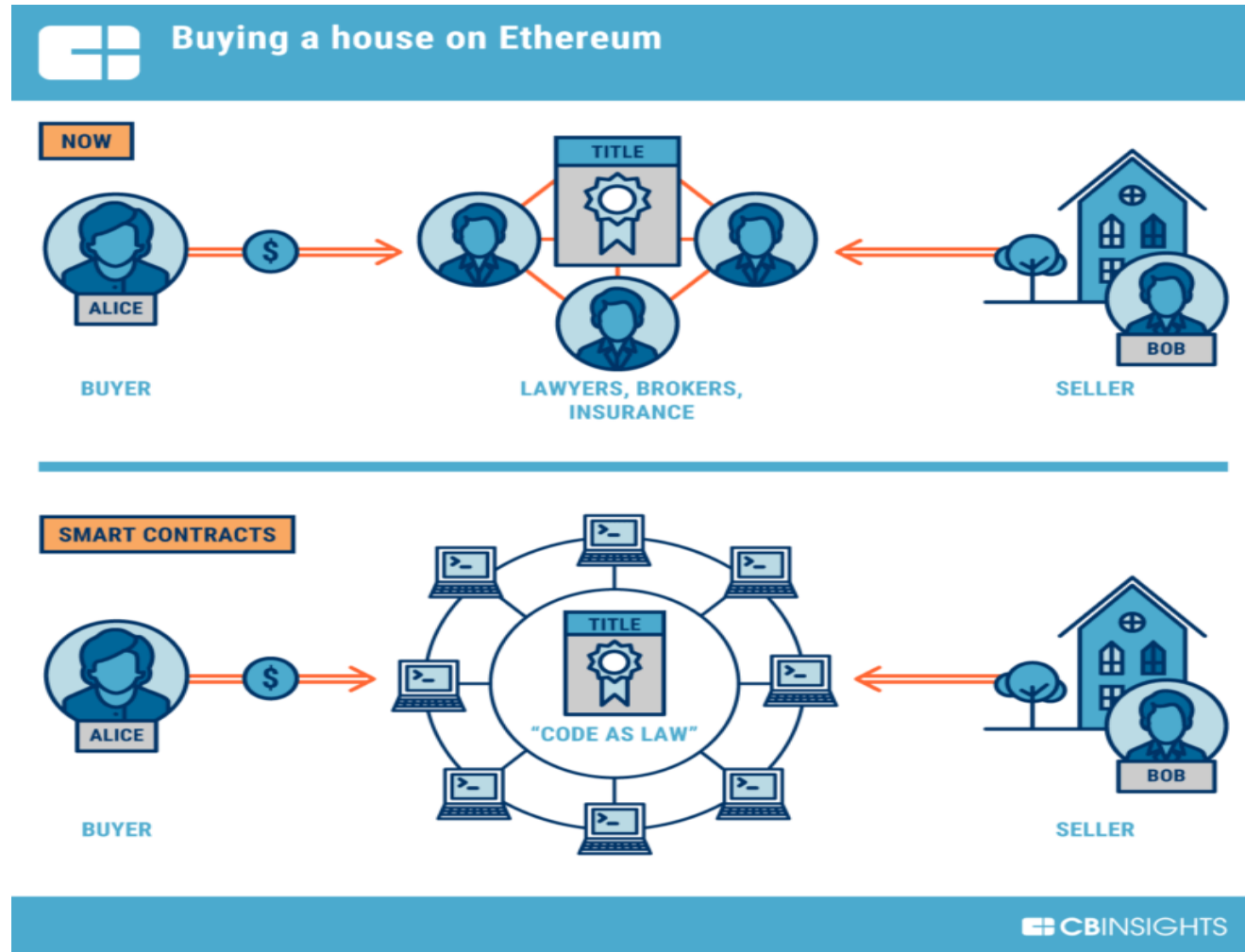
Legal Considerations and Recommendations



# Principle of Smart Contract

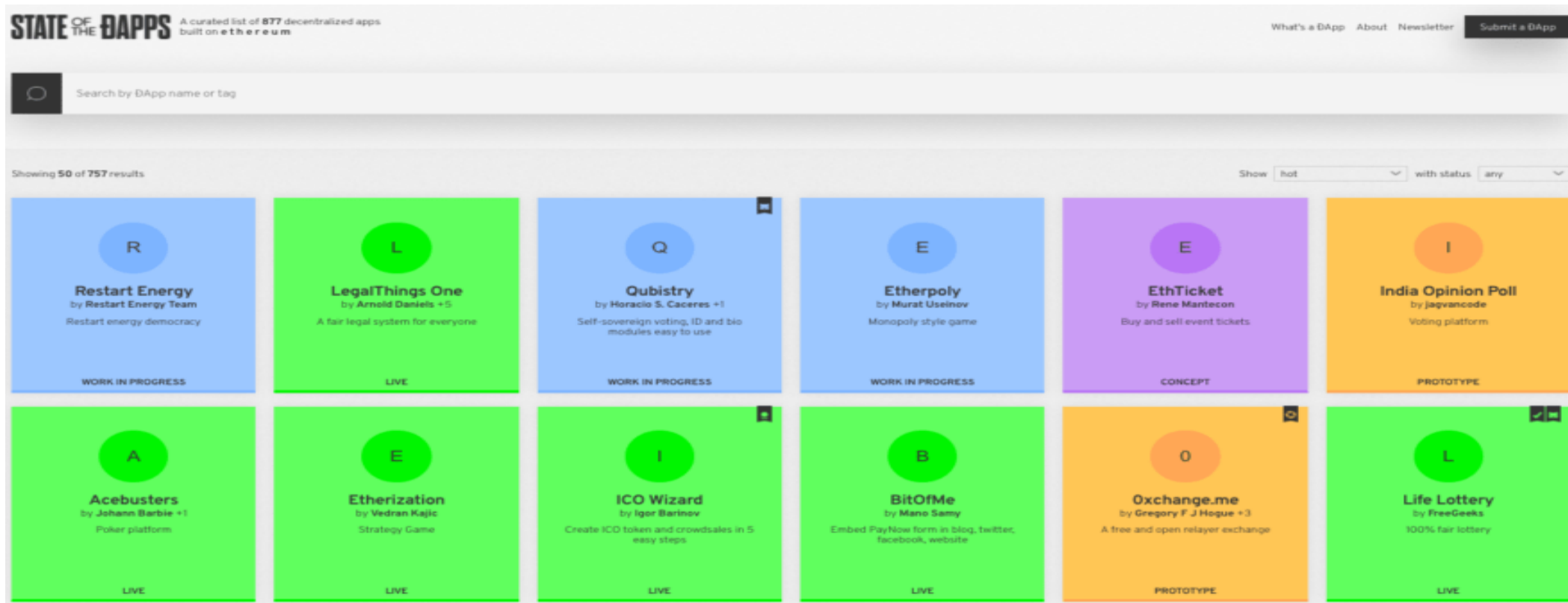
*“IF This Than That”*

- Turing Complete
- EVM
- Consensus Mechanism
- GAS
- IPFS



# So What is Ethereum ?

- A Platform where DaPP can be built using Smart Contract – removing 3<sup>rd</sup> Party.
- The cost of running the DaPP – ETHER (Gas Fees)



# Engaging with DaPPs

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- **Essentials**

Browsers, wallets, and must-have utilities- METAMASK, uPort.

- **Platforms and Markets**

Buy and Sell goods – Augur, Ujo, RentBerry

- **Decentralized Finance and Health**

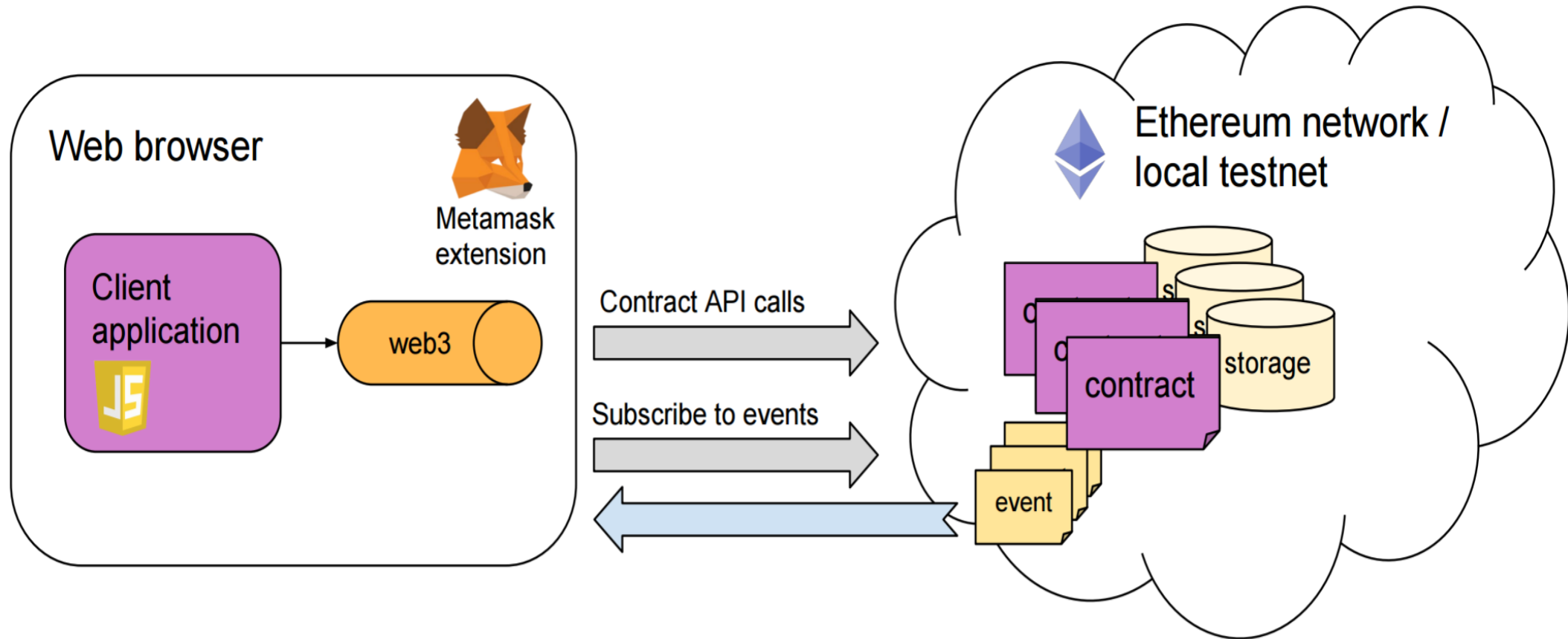
Web3 world – BlockFi, Marble, Ethheal

- **Work**

Do stuff, get paid – GitCoin, OpenLaw.



# Ethereum Architecture





# Tokenization in Blockchain

## Type of Token

- Currency Token
- Investment Token
- Utility Token

## Why do we need Token

## Creation of Token →

```
contract MyToken {
    /* This creates an array with all balances */
    mapping (address => uint256) public balanceOf;

    /* Initializes contract with initial supply tokens to the creator of the contract */
    function MyToken(
        uint256 initialSupply
    ) {
        balanceOf[msg.sender] = initialSupply;          // Give the creator all initial tokens
    }

    /* Send coins */
    function transfer(address _to, uint256 _value) {
        if (balanceOf[msg.sender] < _value) throw;      // Check if the sender has enough
        if (balanceOf[_to] + _value < balanceOf[_to]) throw; // Check for overflows
        balanceOf[msg.sender] -= _value;                // Subtract from the sender
        balanceOf[_to] += _value;                       // Add the same to the recipient
    }
}
```





# Ethereum Standards for Tokens

- **Fungible Tokens**

ERC-20 / ERC-223/ERC-777  
(Crowd Funding- ICO/STO)

- **Non-Fungible Tokens**

ERC-721  
(Digital Assets-Crypto Kitties)



# Security Token and STO

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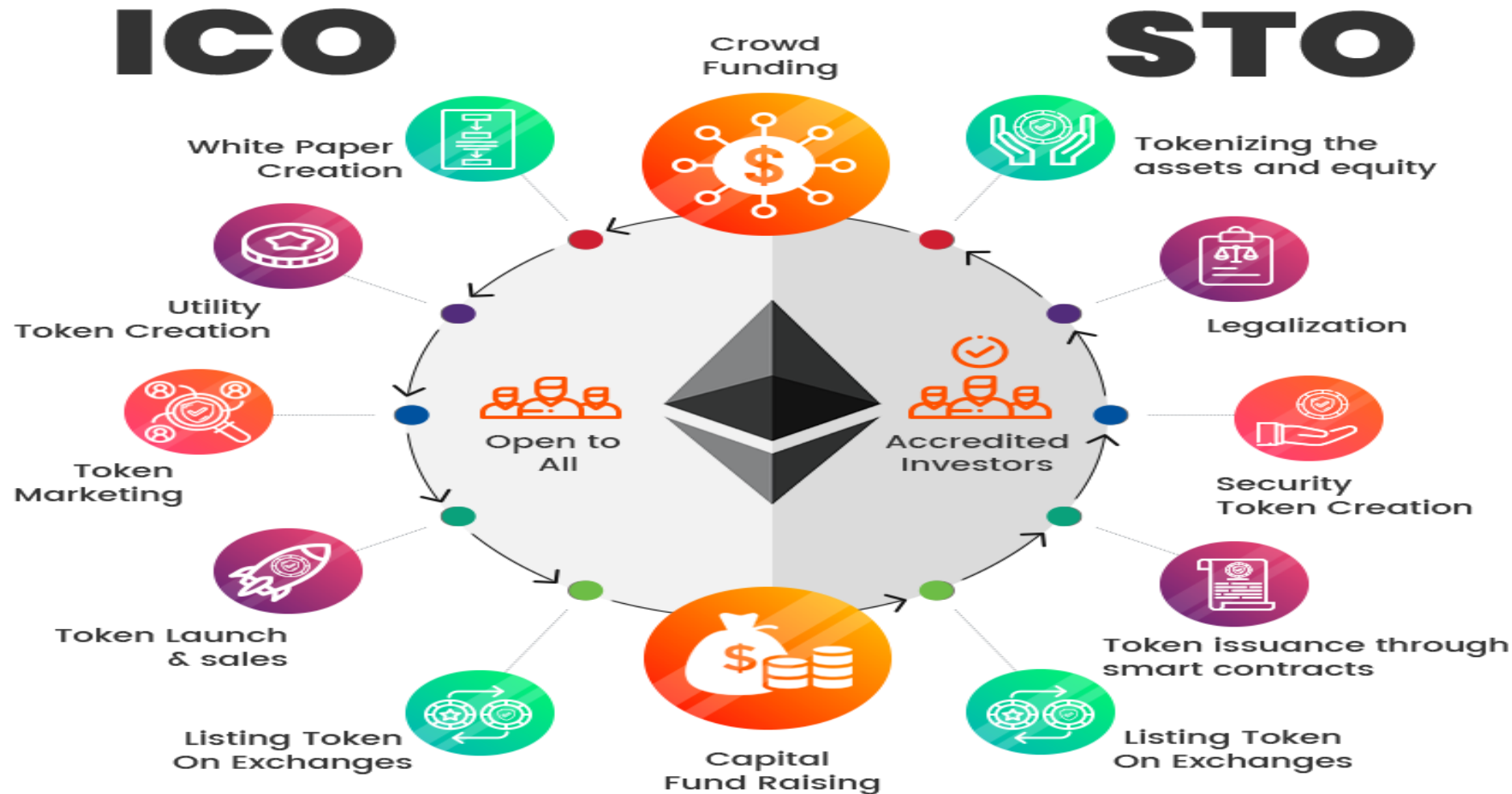


- Passes Howey Test
- Subjected to security regulations D, A+ and S
- Brings Back credibility to ICO

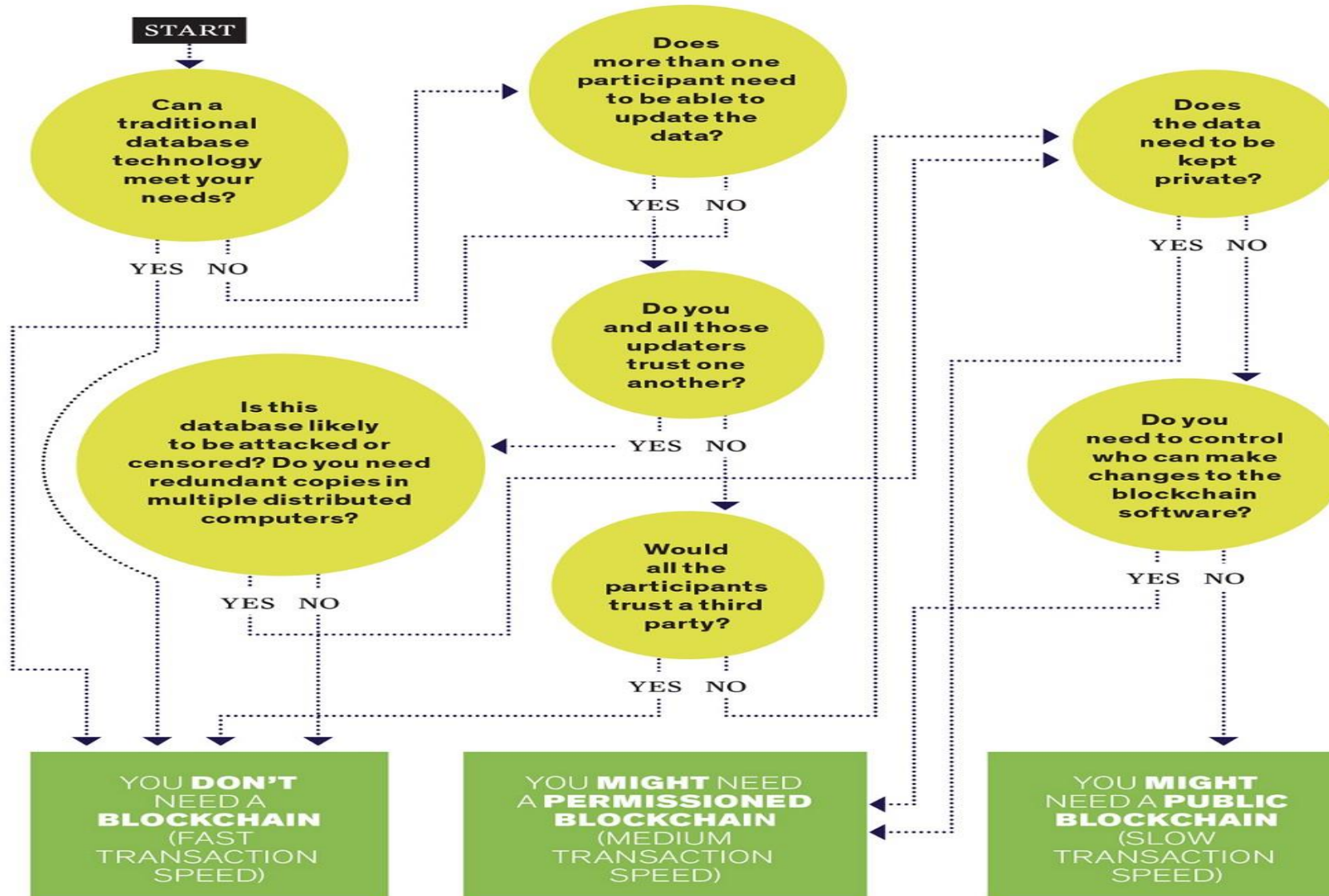
***ERC 1400/ST-20 -  
Security Token Standard***



# Bridging the Line



# Qualification of Use case for Ethereum



# Value Proposition for Legal Industry

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- I. The legal sector more accessible and transparent
- II.Reduce costs in the legal industry
- III.Bring automation to the legal industry
- IV.Legal industry more efficient – Removing Duplications
- V.Data integrity and transparency to the legal industry



# Ethereum Use cases for Legal Industry

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- Electronic Signatures
- Intellectual Property
- Property Rights
- Chain of Custody
- Tokenization
- Automated Regulatory Compliance
- Machine to Machine Payments
- Blockchain-Based Arbitration System



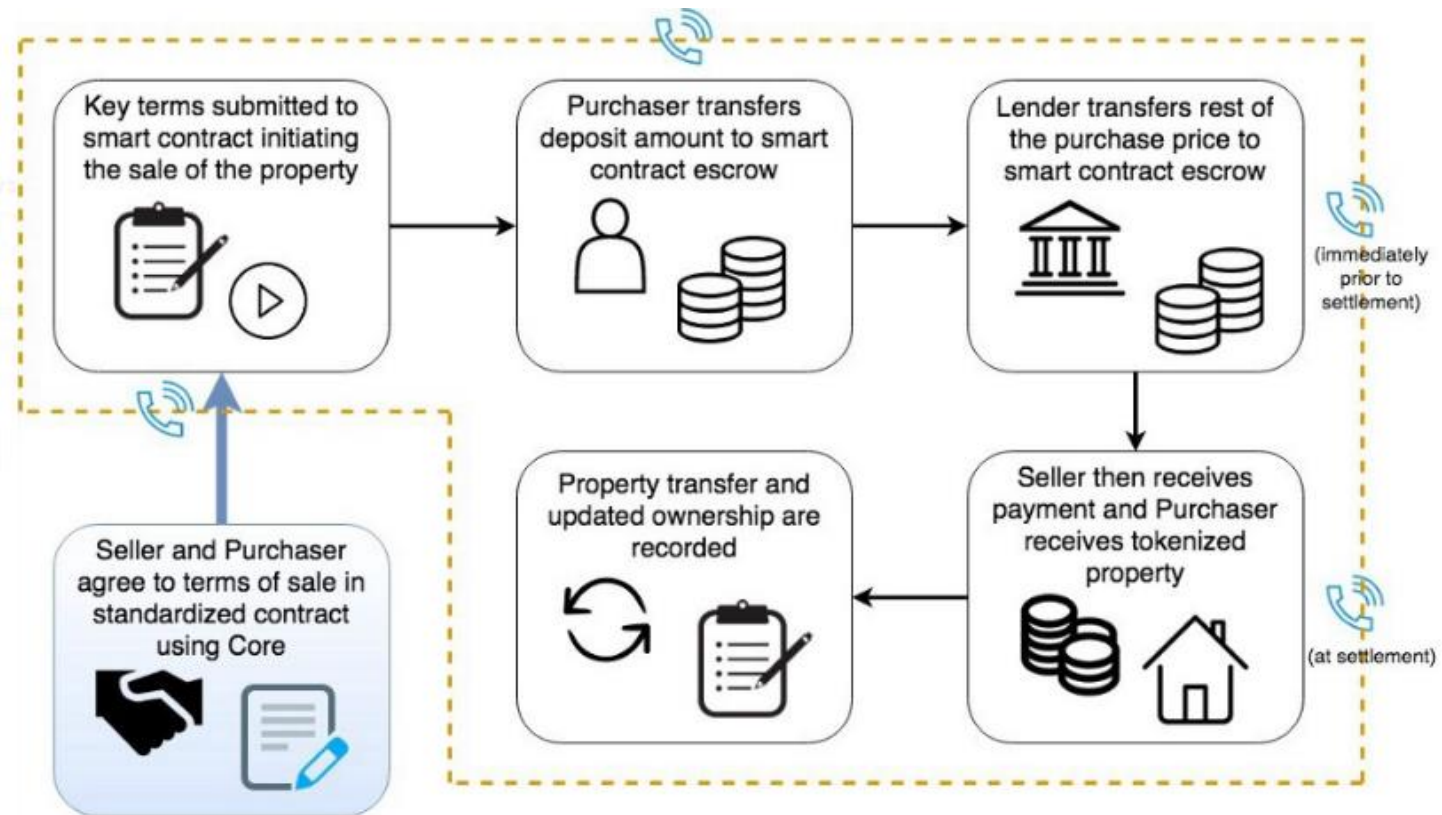


# Case Study – Real Estate Transaction

**Objective:** Manage, automate, and streamline the sale of land, reducing commercial friction and transaction costs.

## Solution

- 1- Use ERC-721 or Security Tokens
- 2- Sale of Land Contract
- 3- Call to Smart Contract (Escrow)
- 4- Transfer Property Rights on Blockchain





# Case Study Demo – Real Estate Transaction

## Land Registry

This land registry is managed by 0x6bac42f017f6857d5e933fe02ad30c405ce7f678.  
There are currently 9 properties recorded.

## Look Up A Property

Property ID

ChIJbU82dNW6MioRMk-GdoYr1NQ

Submit

## Property Details

Clear Search

### 123 Saint Georges Terrace, Perth, Western Australia 6000

Sale Pending

Owner: 0x686baeec7d953bba5086f19a6142201c26c137de

Contract Terms:

Buyer: 0x1f65b2c45ebf424ca49f1a06be79405002f3ce33

Purchase Price: 5 ether

Deposit Amount: 2 ether

Loan Amount: 3 ether

Escrow Balance: 5 ether

Pay Deposit

Fund Loan

Complete Sale

## Complete Sale

The sale must be completed from the owner's address.  
The escrow balance must equal the purchase price under the co

Complete Sale

Done

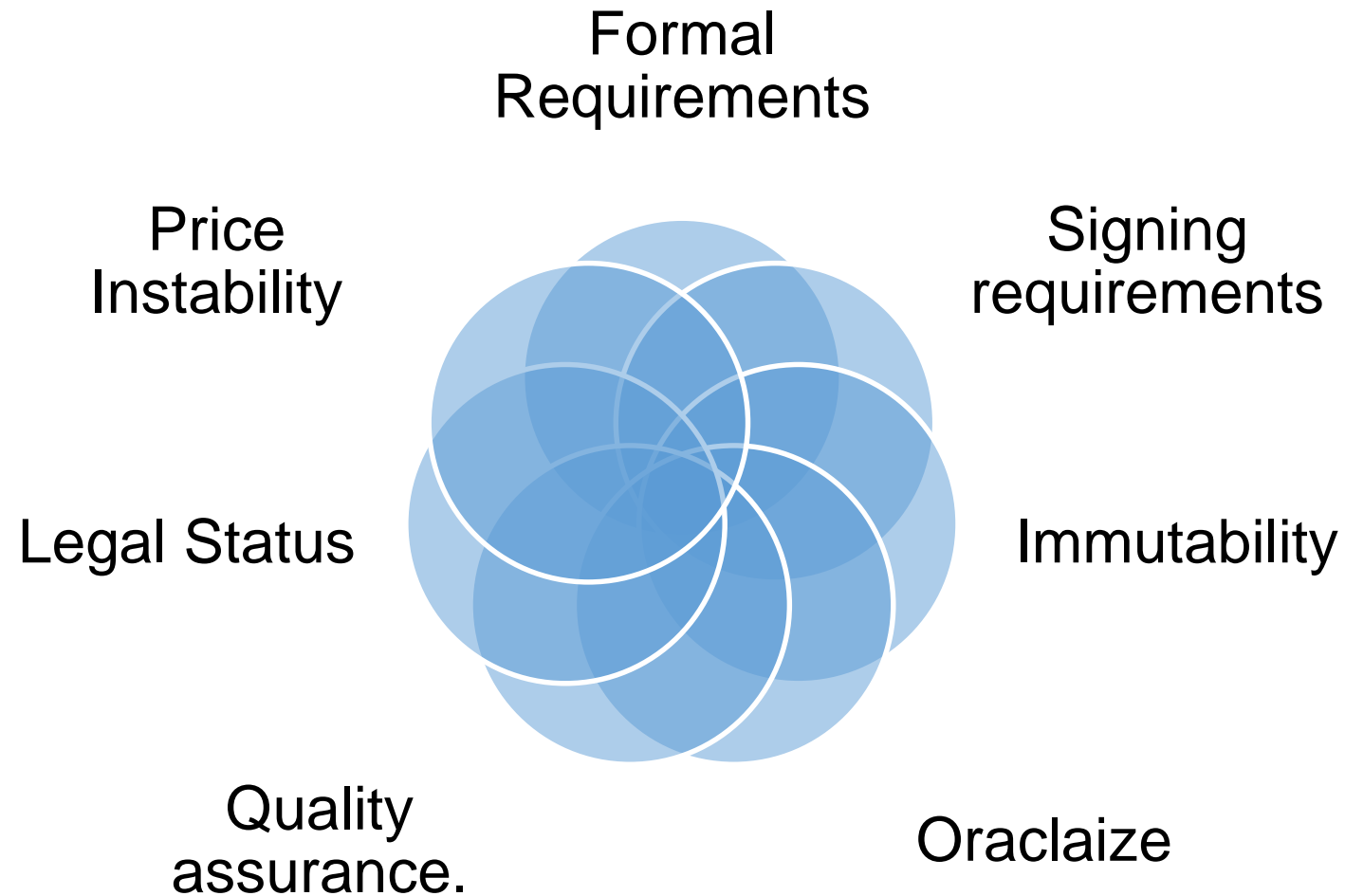
## Complete

The sale has been completed. The owner is now  
0x1f65b2c45ebf424ca49f1a06be79405002f3ce33.



# Legal Challenges and Considerations

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# Conclusion and Recommendation

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Usable definitions of the technology

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Choose the right regulatory approaches

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Harmonize the law and interpretations of it.

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Help policy makers understanding of the technology

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Regulate Exchanges and Notarization

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Enforcement AP and Stable Coin-Pegged with GOLD or USD

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Government entities as Blockchain Participants.



# Thank You

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