



# Programmable Blockchain



# BITCOIN

**WAS CREATED ONLY FOR THE USE OF PAYMENTS**

# ETHEREUM



- Ethereum was first of its kind, general purpose programmable blockchain technology.
- Ethereum was created to expand blockchain's utility.
- **Visionary:** Vitalik Buterin and Gavin Wood

# WHAT ETH LACKS ?



- **Customization:** Tailor-made solutions for unique business requirements.
- **Extensibility:** Continuous improvement and addition of features.
- **Control:** Design your own rules and transaction behaviour.

# HYPERLEDGER FABRIC



- General-Purpose DLT/Blockchain
- Highly modular and configurable architecture
- An enterprise-level, open-source, permissioned blockchain platform.



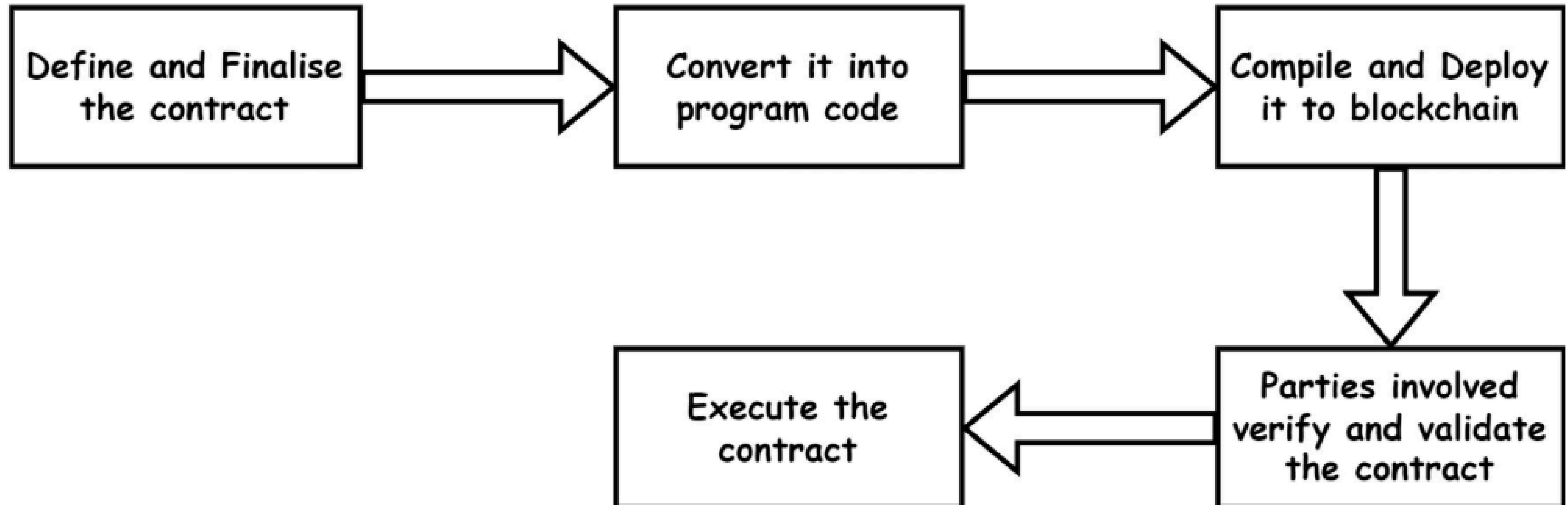
# Smart Contract



- Introduced by Nick Szabo in 1994.
- Agreement between two or more people in the form of computer program
- Business logic / protocol.
- Immutable and tamper-proof agreement with no intermediaries / third parties.



# How Smart Contract Works ?



# Example



ALICE



Alice travels from Mumbai to New York and needs an insurance of \$1000 for this tickets

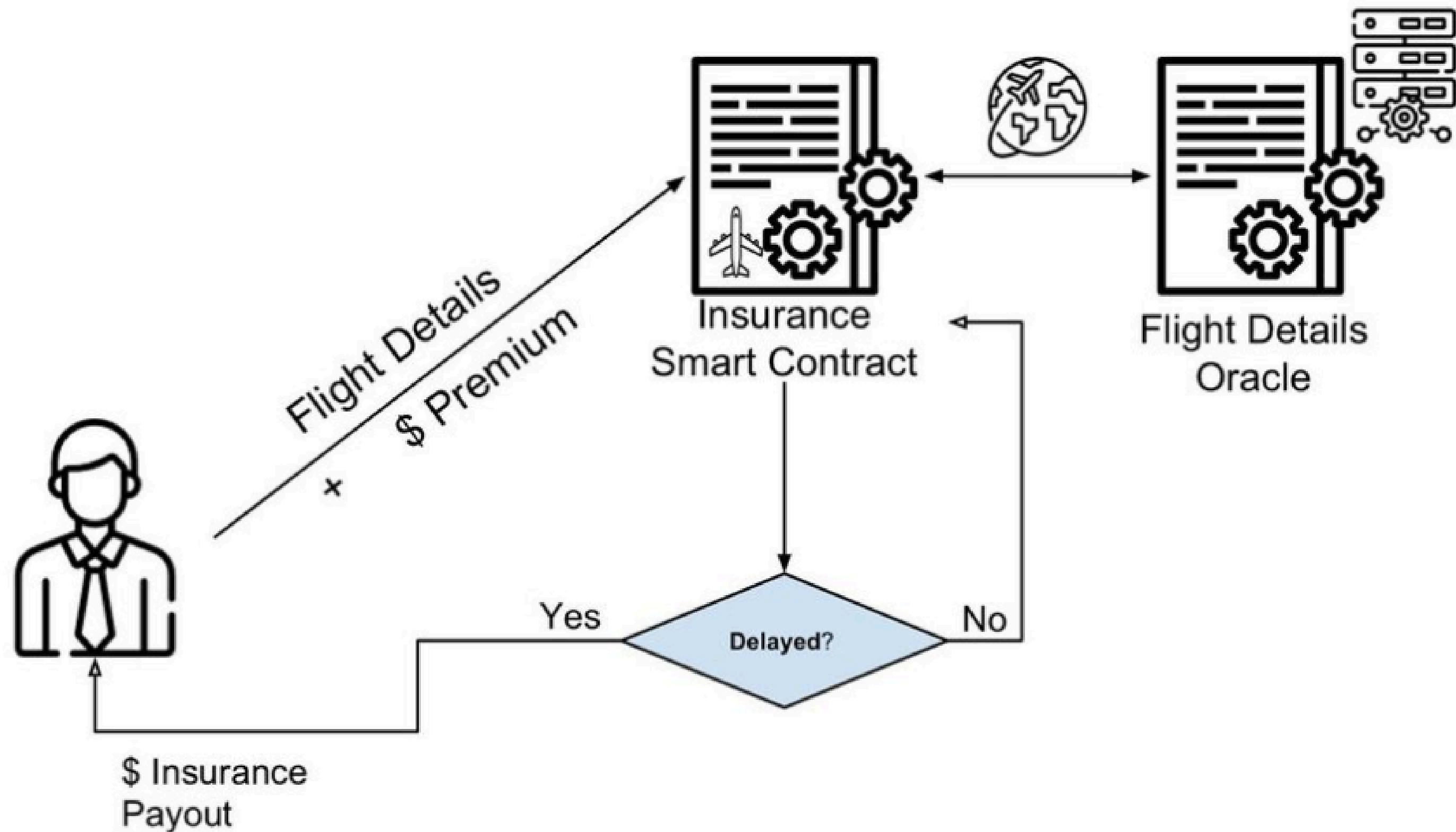


## SMART CONTRACT

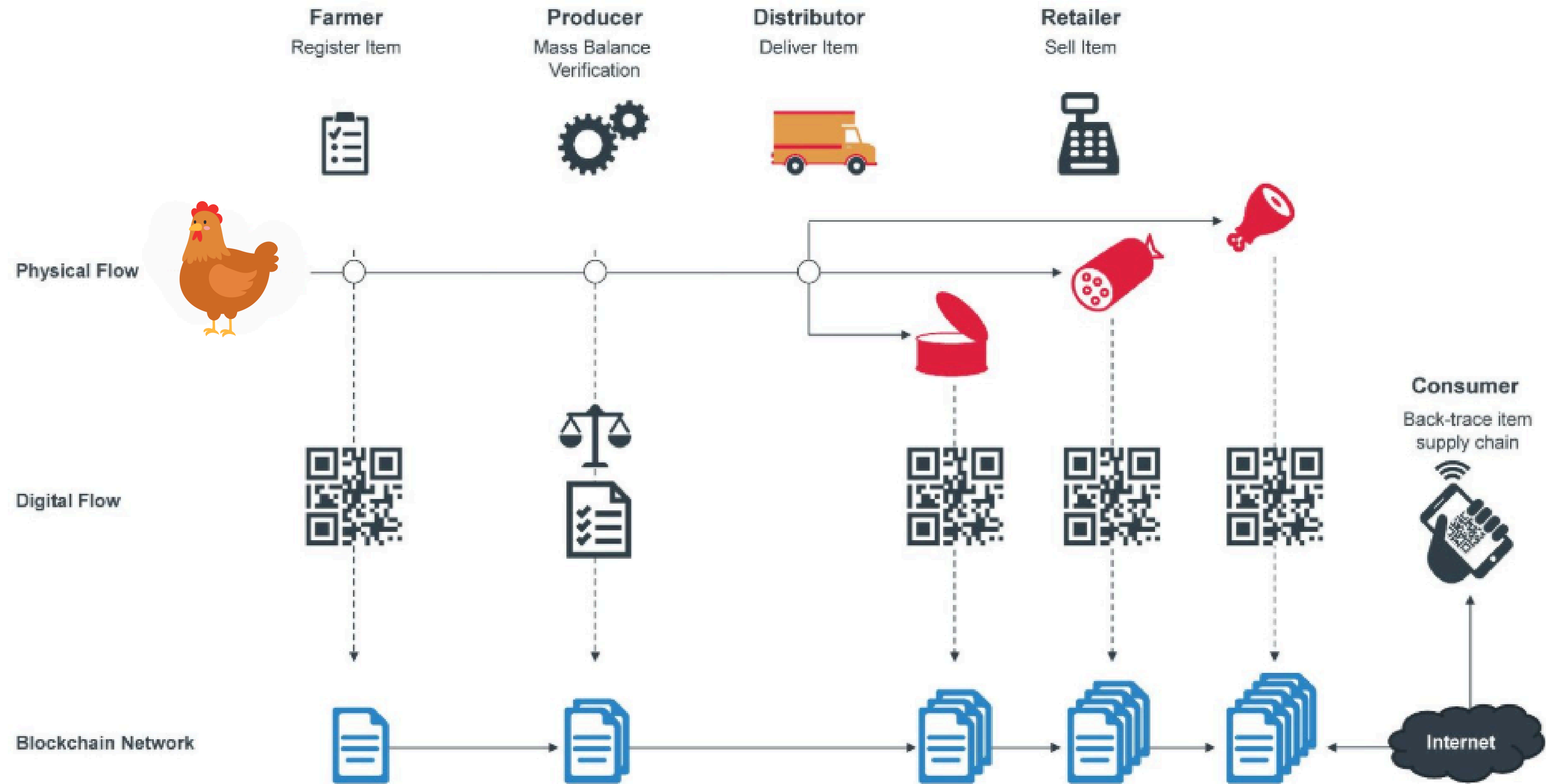
- Alice deposit \$10 and Company deposit \$990.
- If the travel is completed successfully, the smart contract releases 1000 to the company's account.
- If the travel is disrupted due to any listed cases, the smart contract releases 1000 to Alice' account.



# Flight Delay Insurance Example



# Supply Chain Example



# DeFi

DeFi is an umbrella term for financial services on public blockchains, primarily Ethereum.

- **Open:** Just need a crypto wallet.
- **Pseudonymous:** No KYC, No personal info.
- **Flexible:** Move your assets anywhere at any time, without asking for permission, no waiting time and expensive fees.
- **Fast:** Interest Rates and rewards often update rapidly.

# Use Case



TRACE - Fund Traceability for  
Agricultural Development

In -Production



A tokenized stock exchange  
platform tailored for small and  
medium-sized enterprises (SMEs).

In -Development



ATME - Bahrain's Regulated  
Digital Assets Exchange

In -Production



UNJSPF's Digital Certificate of  
Entitlement App - Streamlining  
Pension Verification

In -Production



GalaChain - Blockchain  
for the Entertainment  
Industry

In -Production



Indian Railways - Innovating  
Train Ticketing with NFT  
Technology

In -Production

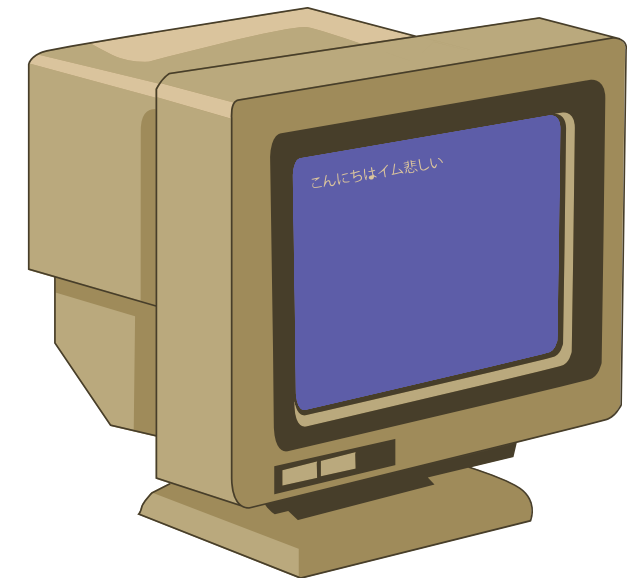
## Use Case Tracker – LF Decentralized Trust

Discover 200+ use cases built with LF Decentralized Trust technologies in  
our use case tracker

[lfdecentralizedtrust.org](https://lfdecentralizedtrust.org)

# Web1

Read only web

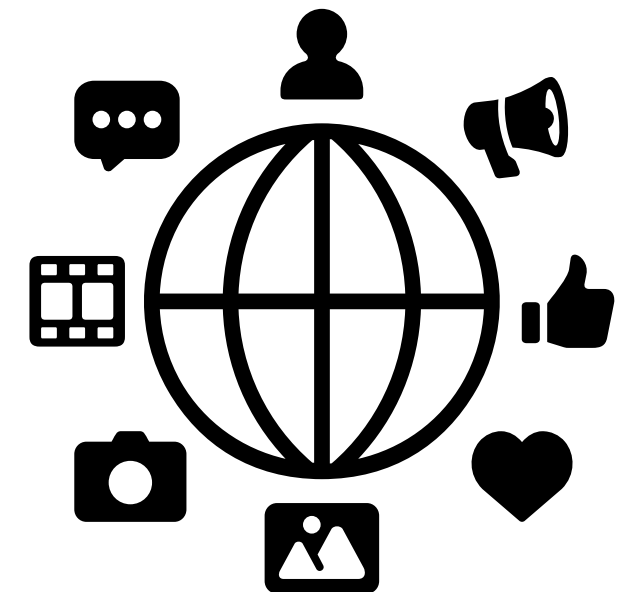


# Web1

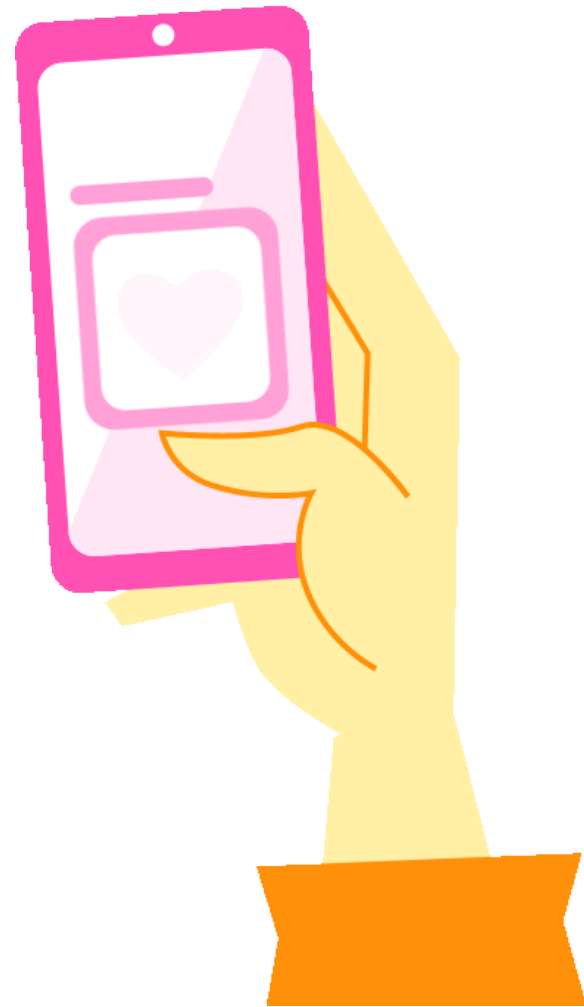


# Web2

## Birth of Modern Internet



# Web2

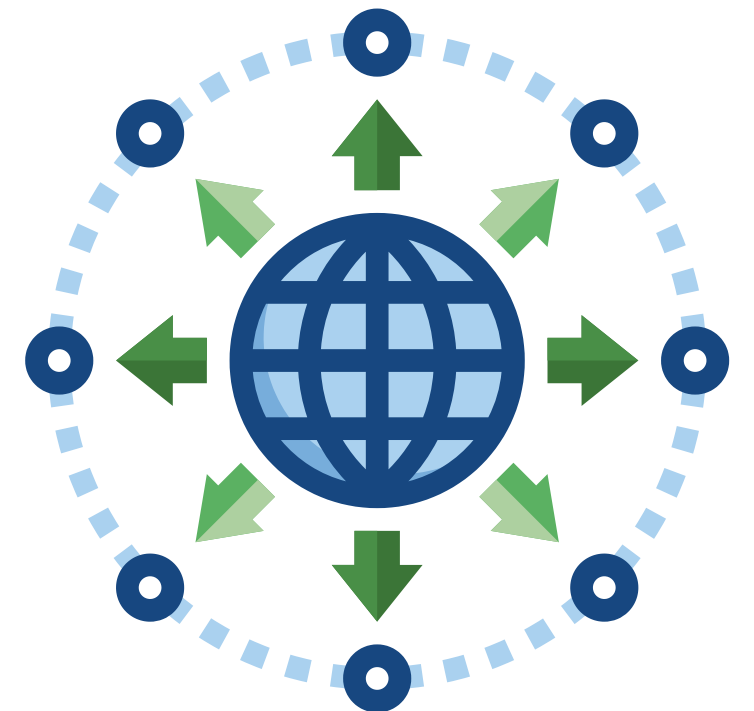


**Read and Write**

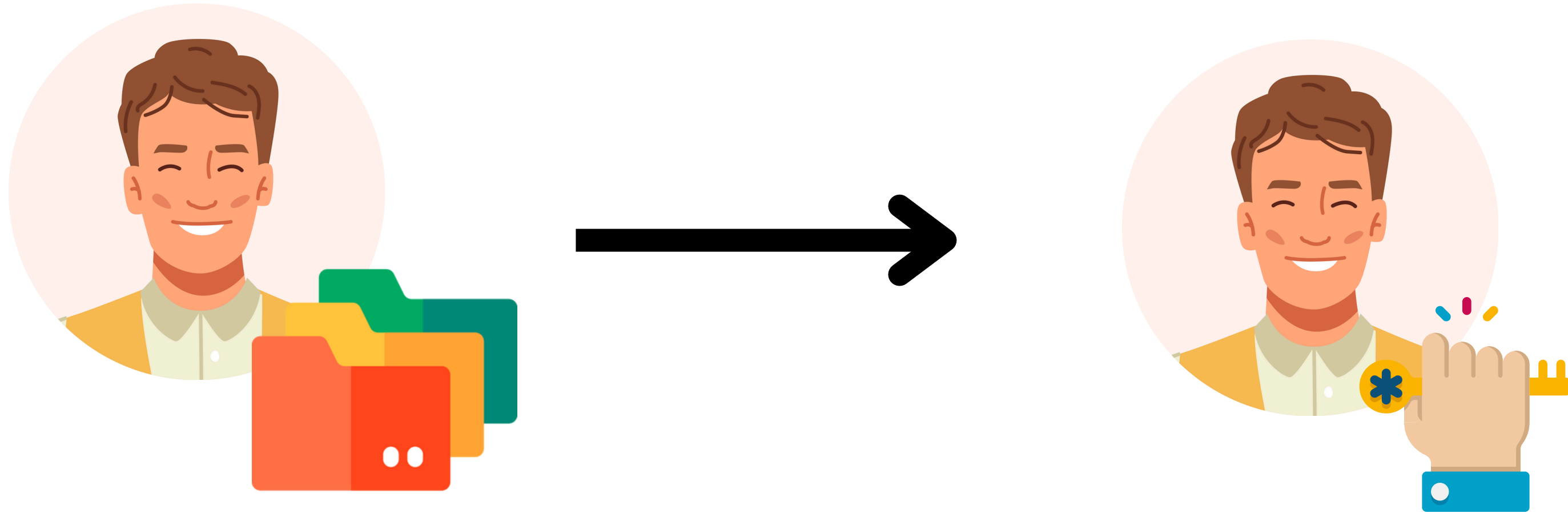


# Web3

## The Future of Internet



# Web3



Read Write Own

# Web2 Web3

## Applications

Chrome



Brave



Spotify



AudiUS

Google search



Pre-search

X



Mastodon

# Any Questions ?

