Blockchain, Smart Contracts, Privacy, Scaleability and the WEB 3.0





Fabian Vogelsteller

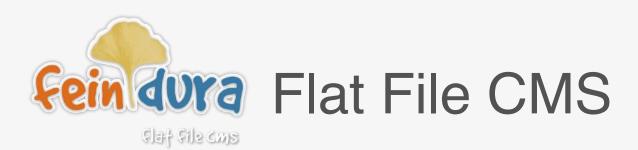


Ethereum Wallet



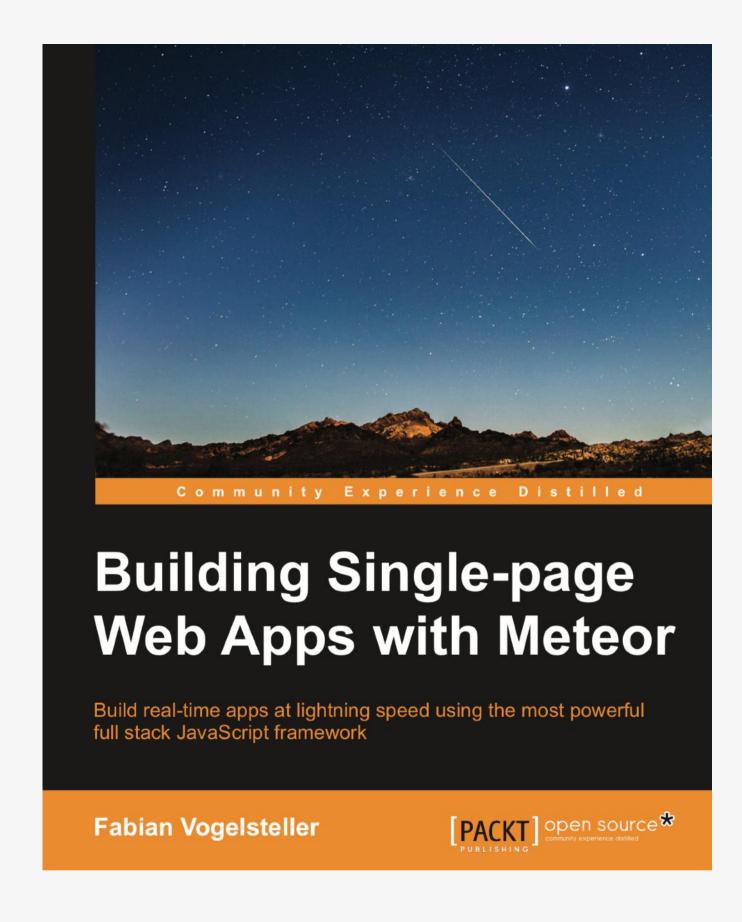
Mist Browser





Other Open Source libraries...







What is a Blockchain?





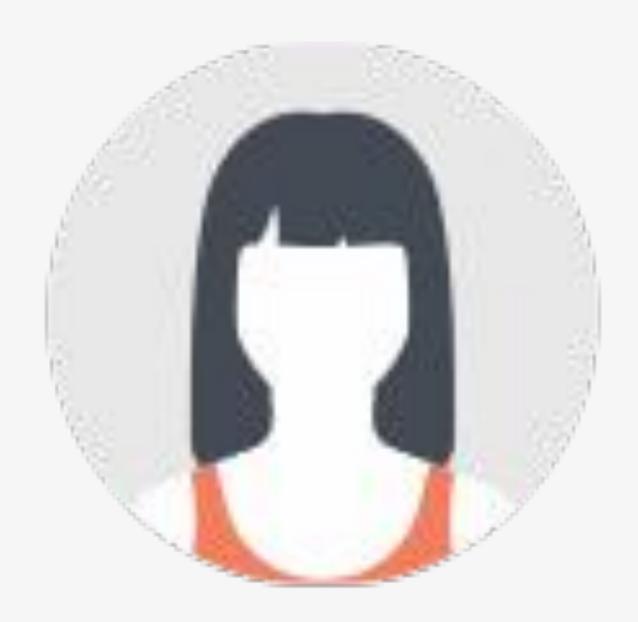
Fabian Vogelsteller, Web3.js and Mist Developer, Ethereum @feindura

http://frozeman.de/blog











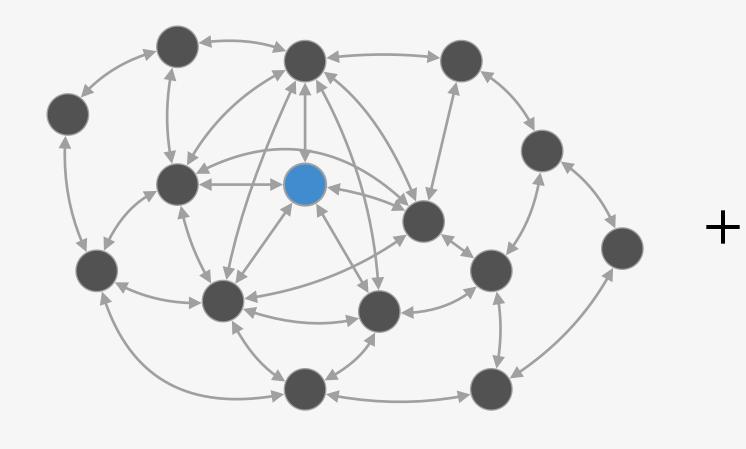




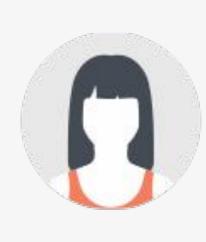
Decentral

Immutable

Verified









Peer2Peer

Consensus Algorithm

Signatures



What are Smart Contracts?

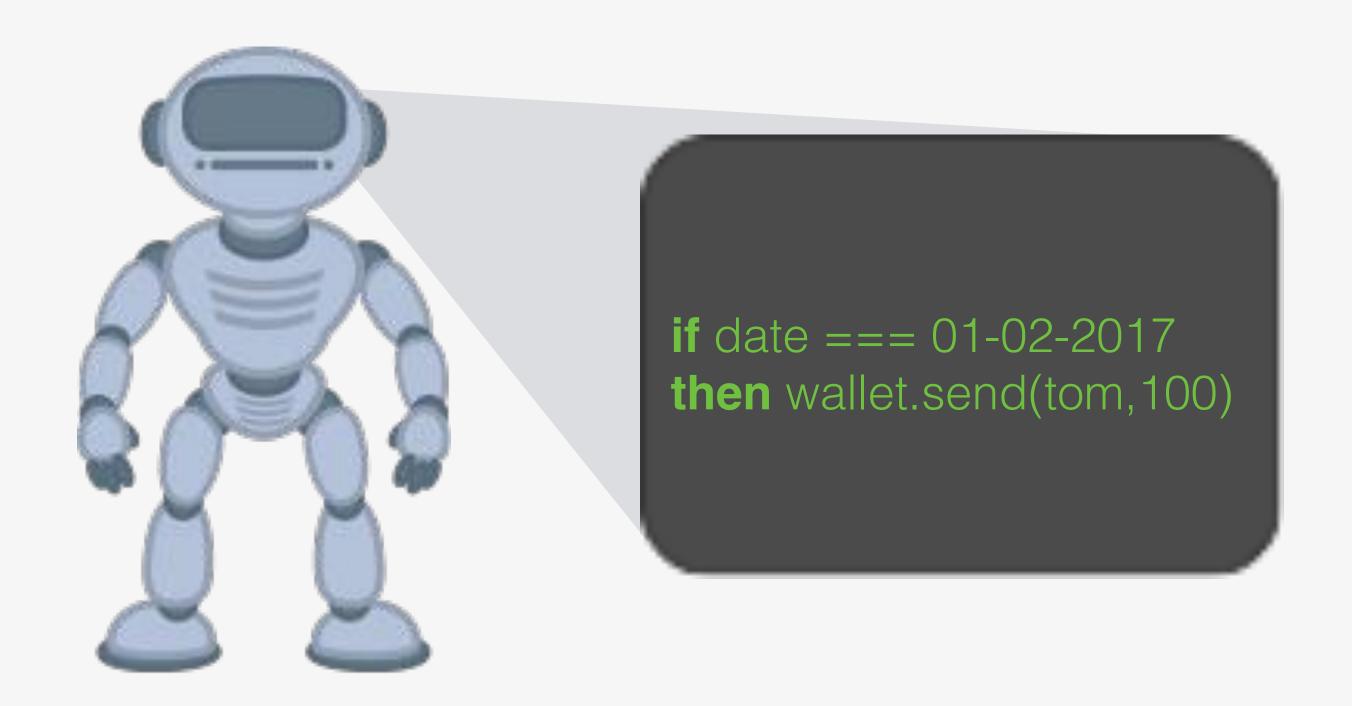


Trust is good...



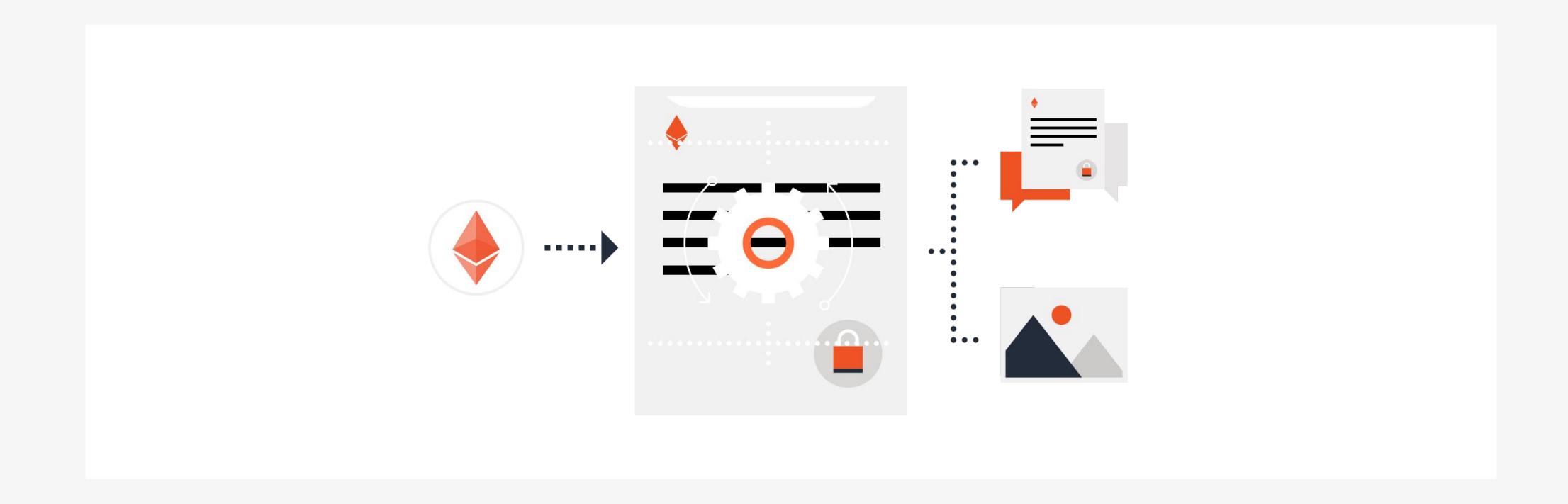


Automation is better!





Ether is the fuel and the spam protection





```
pragma solidity 0.4.8;

contract SimpleStorage {
    string storedData;

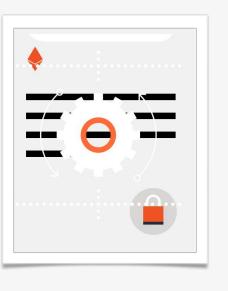
function set(string x) {
    storedData = x;
    }

function get() constant returns (string) {
    return storedData;
    }
}
```



What becomes possible?





Industry 4.0



Supply chain



Digital identity



Micropayments
through payment channels



Nano **Paywalls**



Machines can own money
Selfdriving cars
Autonomous Drones

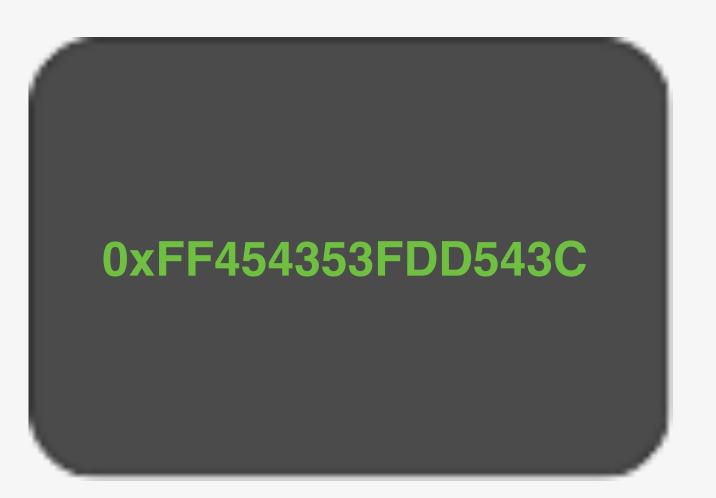


Where are we now?



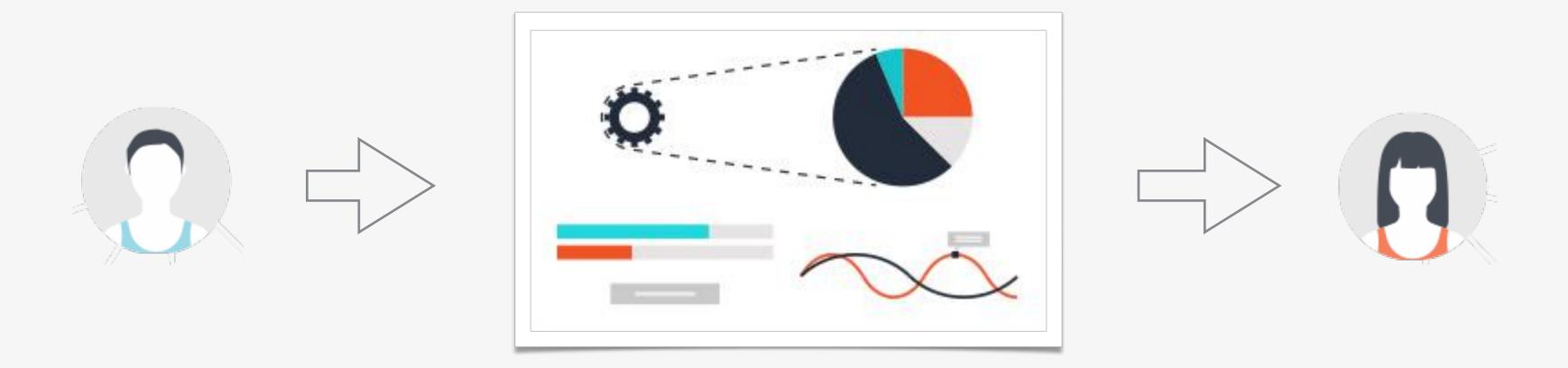
Global Commodore computer,

which doesn't scale with more nodes! (currently)





But it creates a **un-cheatable Platform**: Solves the trust issue between parties!

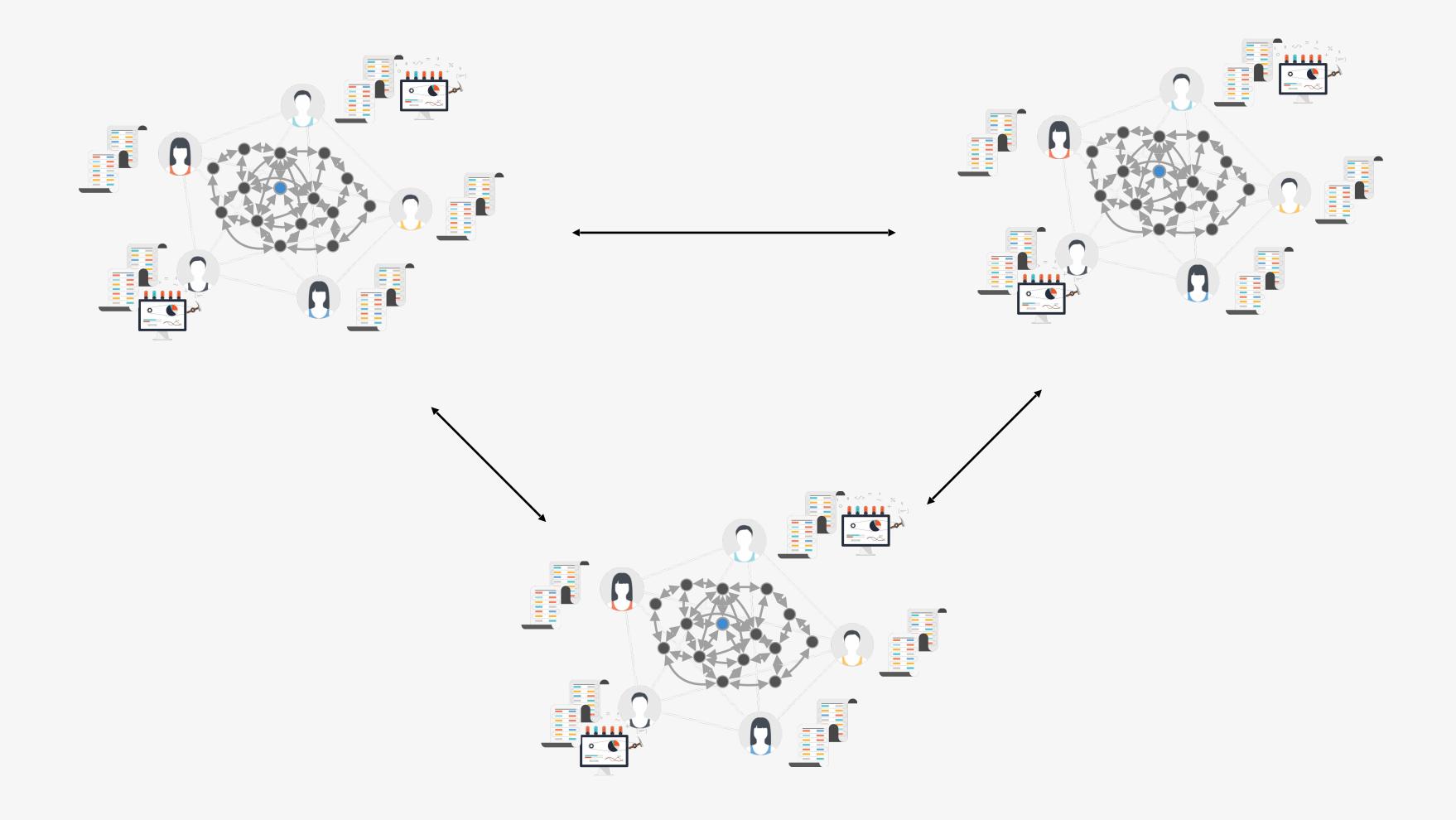




Scalability

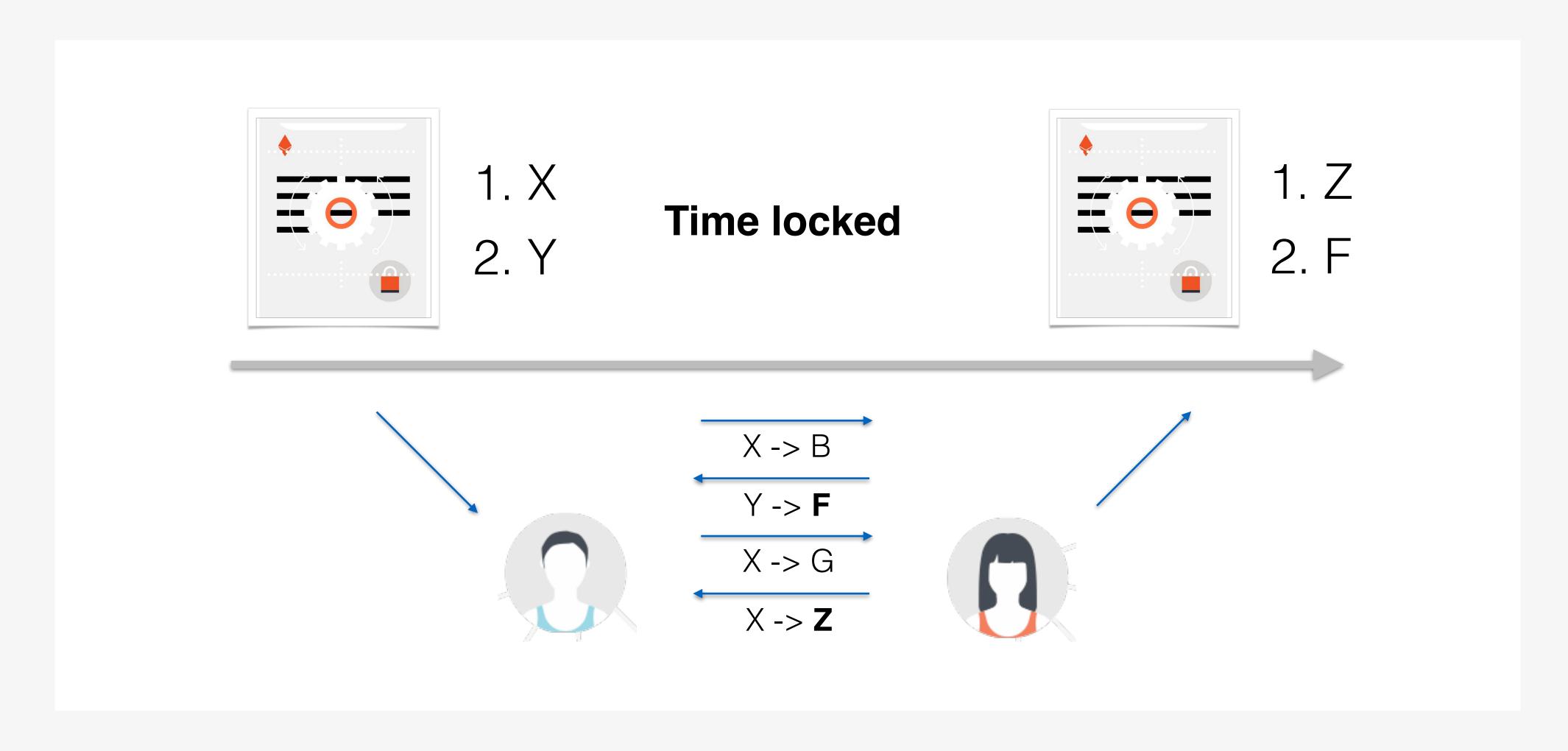


Consensus Sharding





State channels

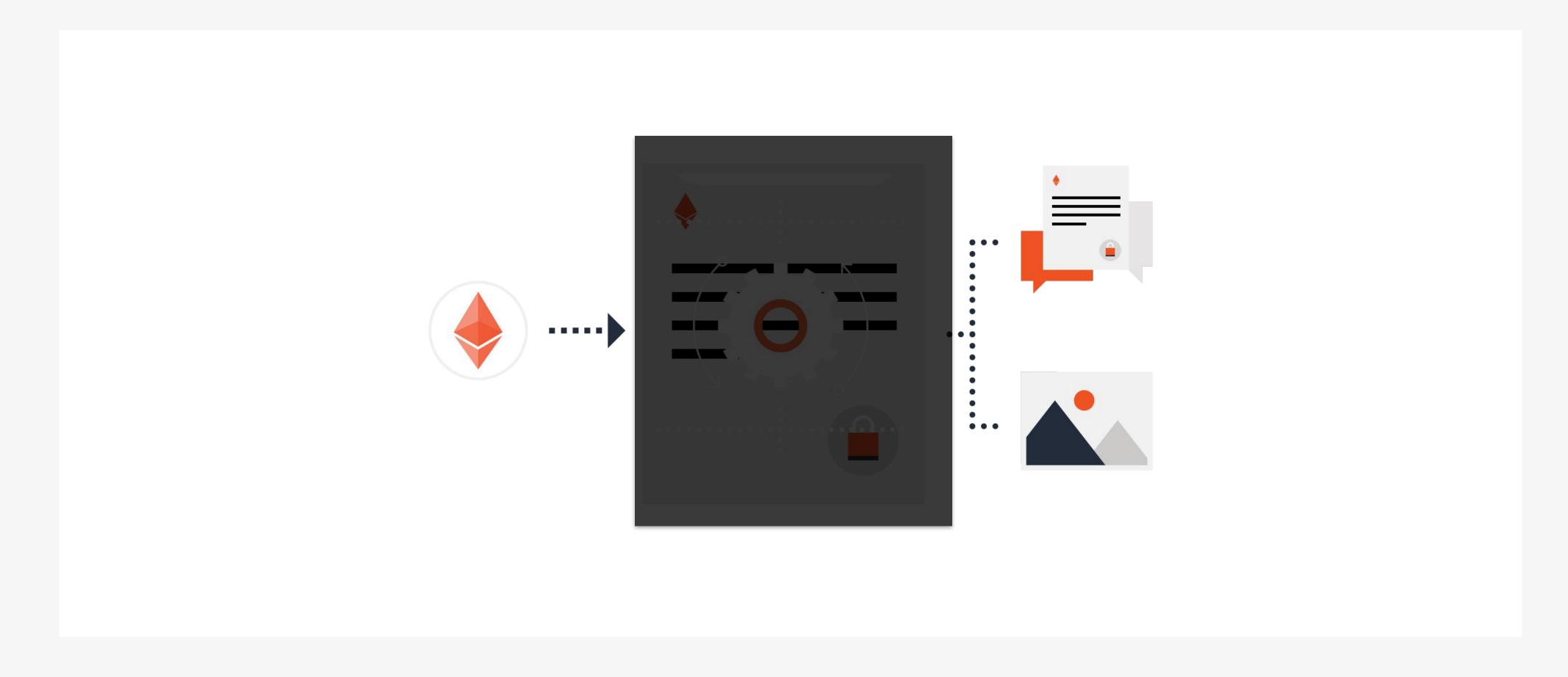




Privacy



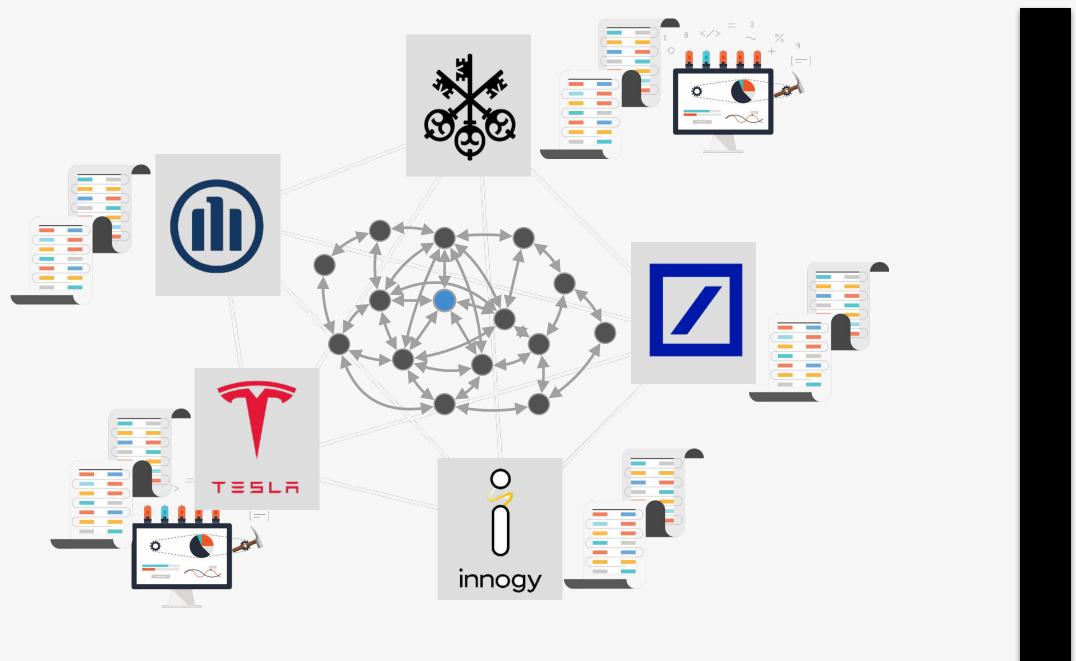
Zero knowledge proofs

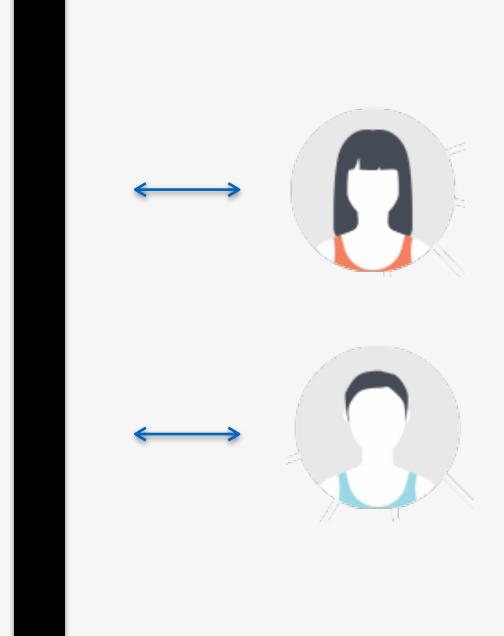




Consortium chain

API/Permissioned Light client





Trustless

Trust required



The Internet of Blockchains





The future with Blockchains is the internet of ownership!



Decentralized server-less applications

Censorship resistant

Can outlive their developer team

Protocol, not an app, interfaces can be replaced



