



What is **Ethereum** and how does it work?

World computer

Developers

Decentralised applications

Ether

Digital currency

blockchain

DAO

Ethereum Classic

Ethereum

Ethereum Virtual Machine

Smart contracts

Dapps

programs

Vitalik Buterin

Cryptocurrency

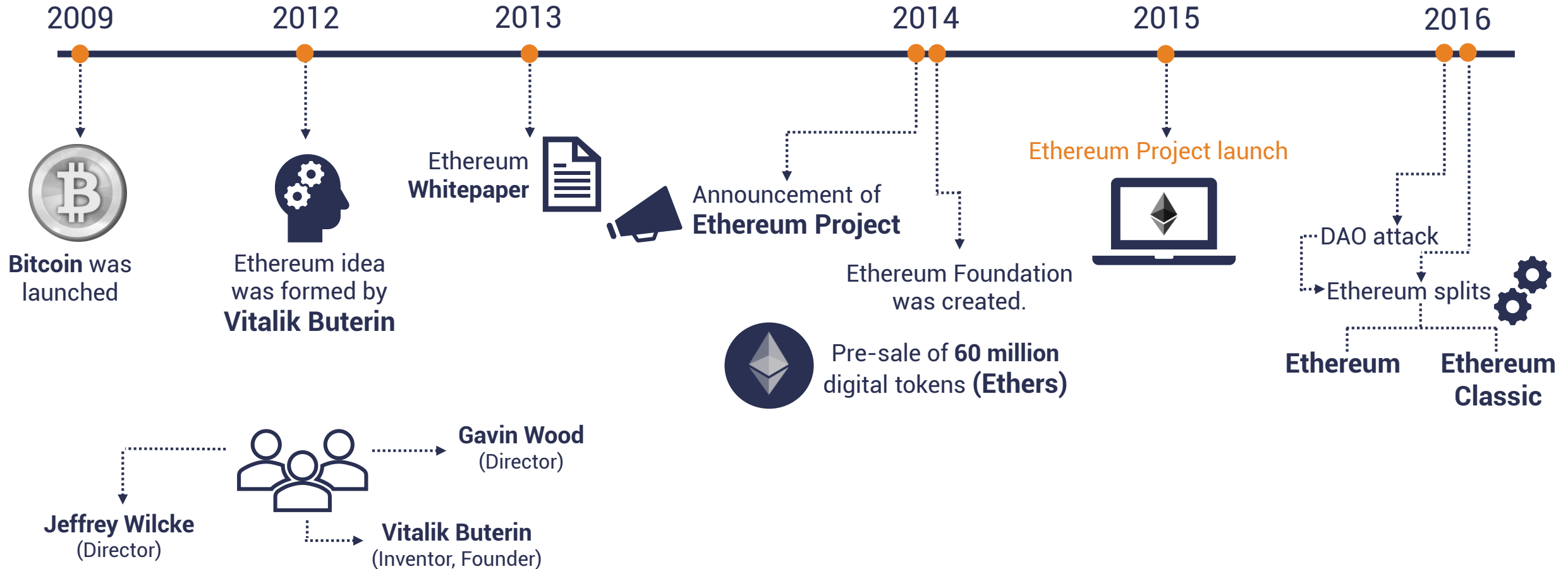
software

Bitcoin

Mist

Miners

The birth of Ethereum



What is Ethereum?



Ethereum is an open software platform based on blockchain technology that enables anyone to build and deploy **decentralised applications (dapps)**.

What is Dapp?

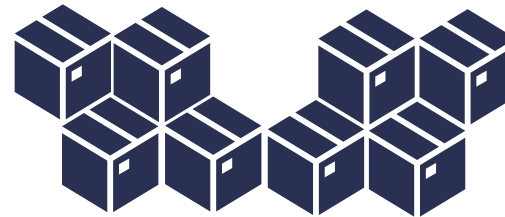
Example

Decentralised application (Dapp)



is a new type of software program designed to exist on the internet in a way that is not controlled by any single entity.

Bitcoin's Blockchain



Blockchain is a distributed database that is used to maintain a continuously growing list of records called blocks.



Public ledger showing all Bitcoin transactions

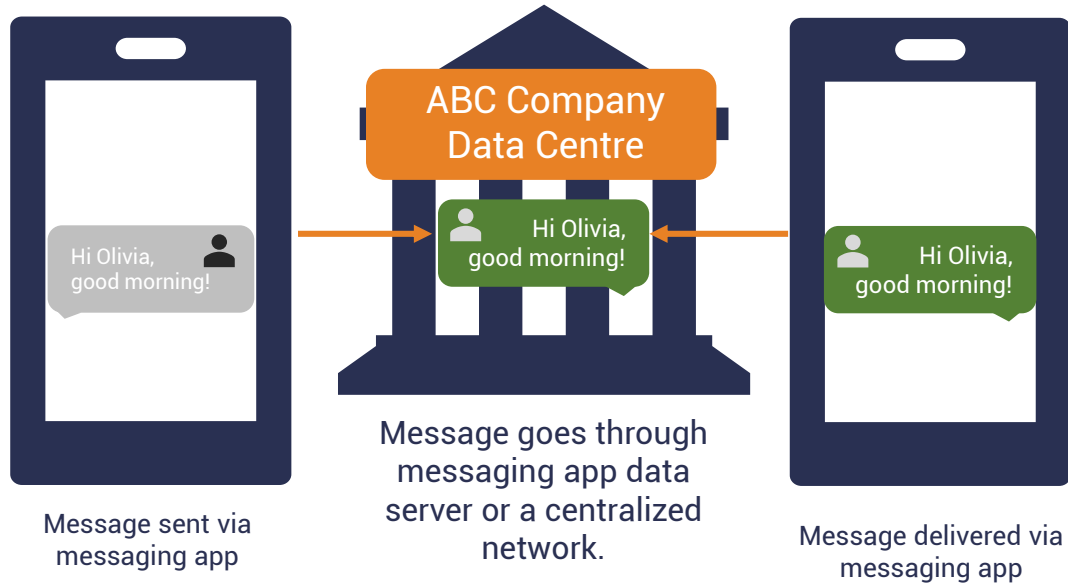
- ✓ Online based
- ✓ Decentralised
- ✓ Not controlled by any single entity



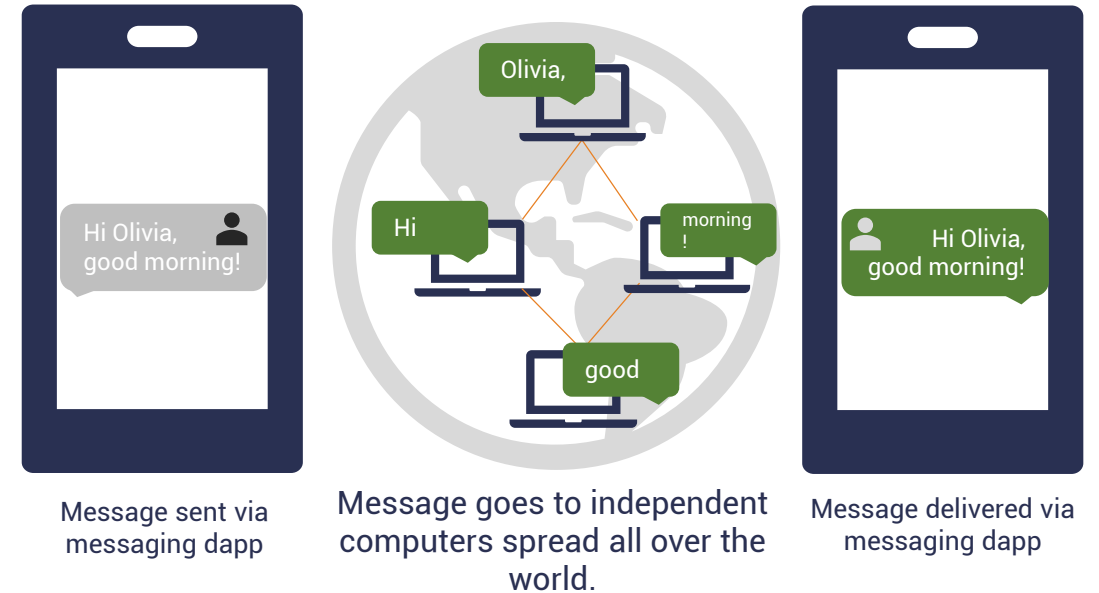
Shared record of the entire transaction history

Centralised vs. Decentralised Applications

Centralised application



Decentralised application



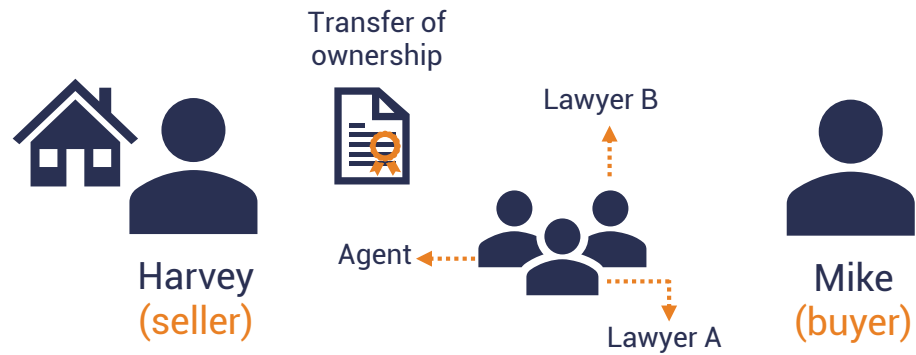
The message that has been sent via dapp goes to independent computers (miners) spread all over the world. To connect to the network, they need to download a program called Mist. No one can access the full message. This is an example of a decentralised network.

What is Ethereum?

Ethereum is powered by the Ethereum Virtual Machine which allows smart contracts to run on a decentralised blockchain. These contracts self-execute only when certain conditions are met.

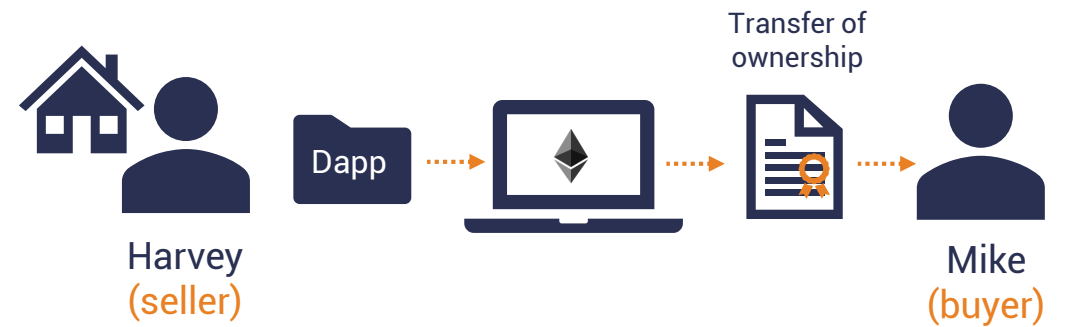
Normal contract

Mike wants to buy a house



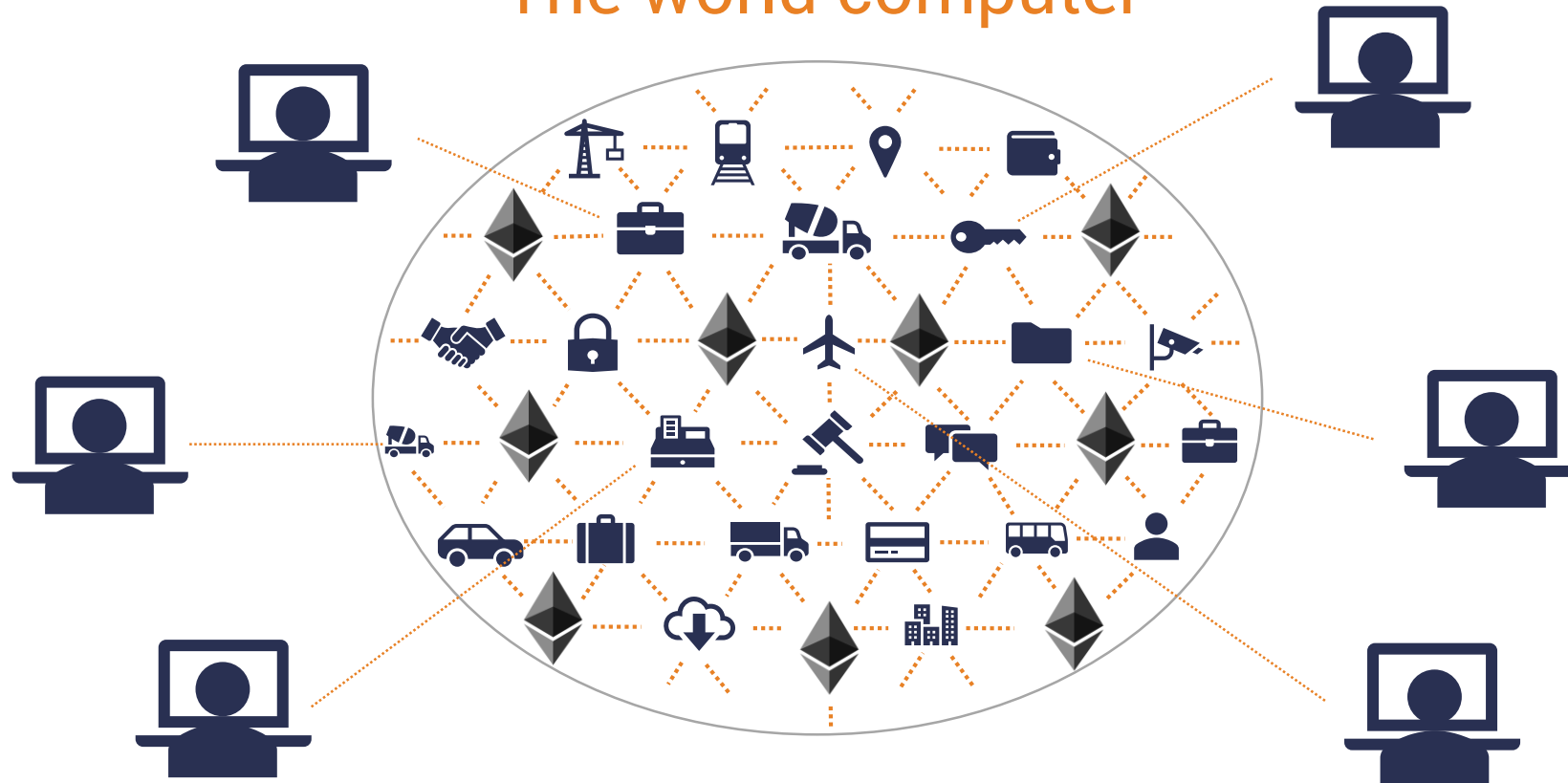
Smart contract

Mike wants to buy a house



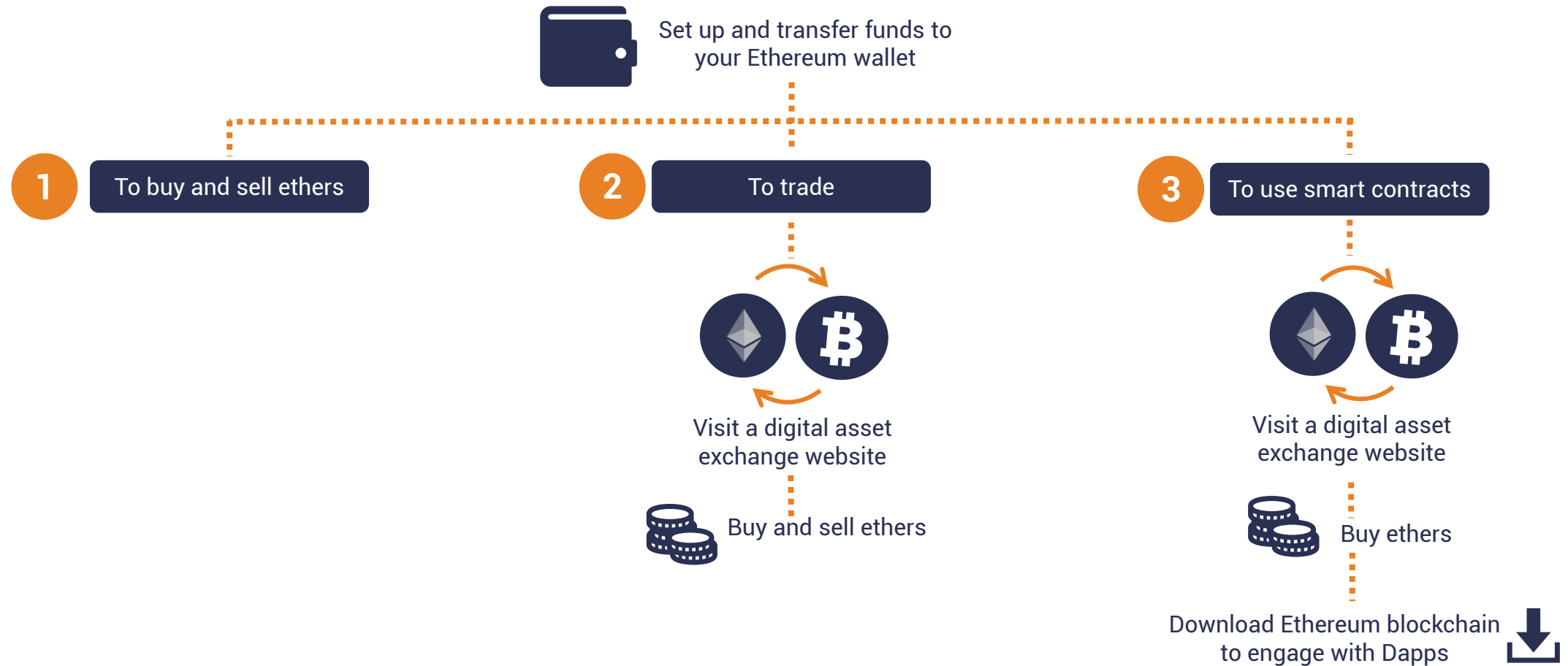
What is Ethereum?

"The world computer"

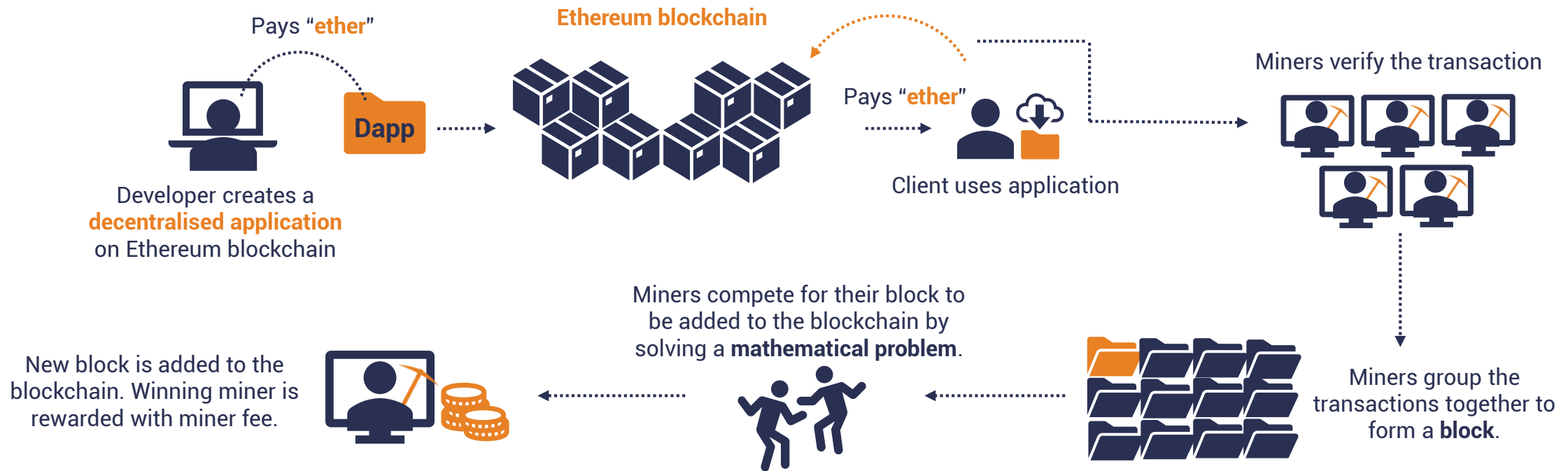


Ethereum provides a universal, programmable blockchain which anyone can use.

How to get started with Ethereum



How does it work?

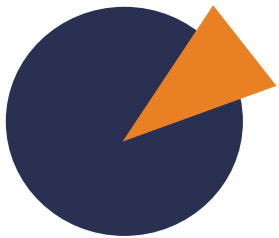


Ether is Ethereum's digital currency which fuels the Ethereum platform

Miners are people who help secure the Ethereum network and verify all transactions that take place in the blockchain.

How are ethers created?

2014 pre-sale of 60 million ethers



20%

Development fund



80%

Ethereum Foundation
contributors

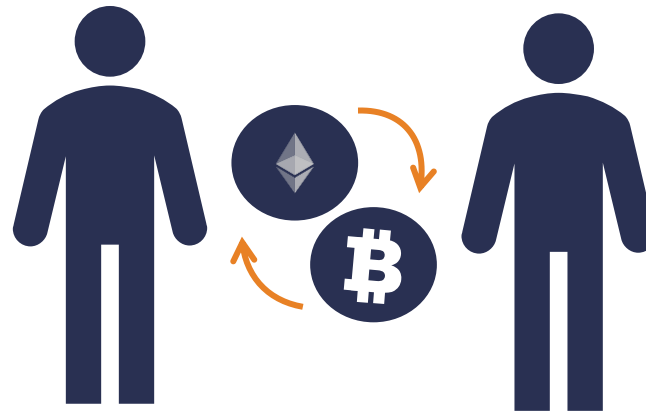


5 ethers
As mining fee
every 15-17 seconds

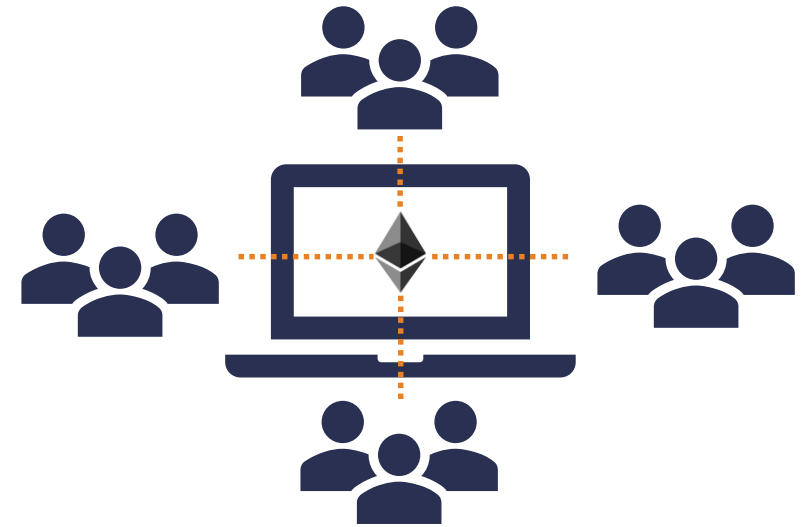
Who uses ether?



Developers who intend to build decentralised applications to run on the Ethereum blockchain



Traders and investors



Users who would like to access and interact with smart contracts on the Ethereum blockchain

Why use Ethereum?



Autonomy

Eliminates third party



Transparency

Documents are encrypted
on a public ledger



Backup

Documents are
duplicated many times
over



Savings

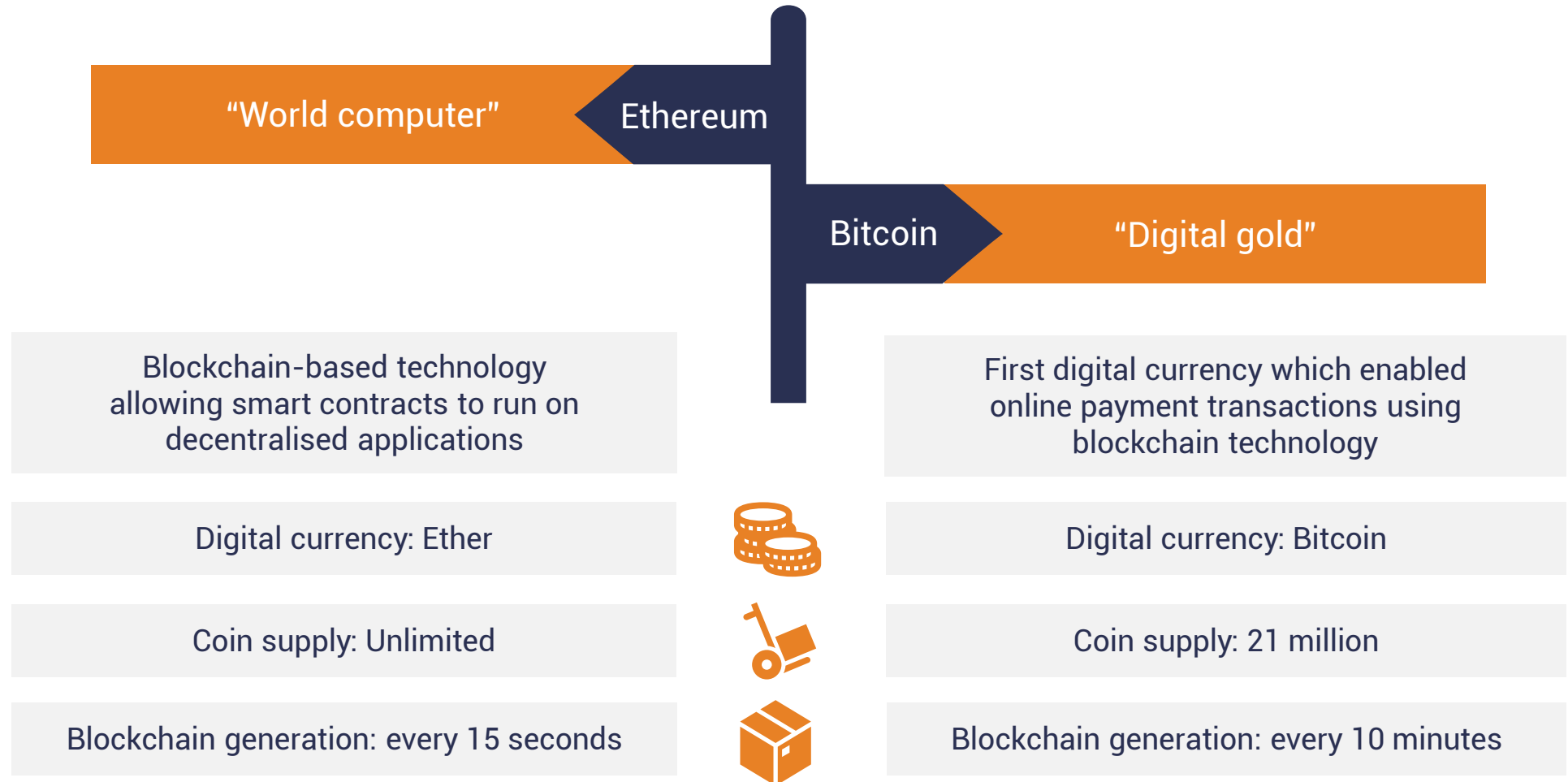
No intermediary costs



Accuracy

Avoid errors caused by
manual work

Ethereum vs. Bitcoin



Applications built on Ethereum platform



With Augur, anyone in the world can easily create a prediction market by asking a question.



Golem allows users to rent out their computing power or develop and sell their softwares.



4G Capital provides access to credit for small business growth in Africa.

Ethlance

Ethlance is the first job market platform built on Ethereum blockchain.



Ampliative Art allows artists to create their own galleries and exhibit their work for free.

Companies are starting to accept ethers



To learn more
about Ethereum,
visit
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