

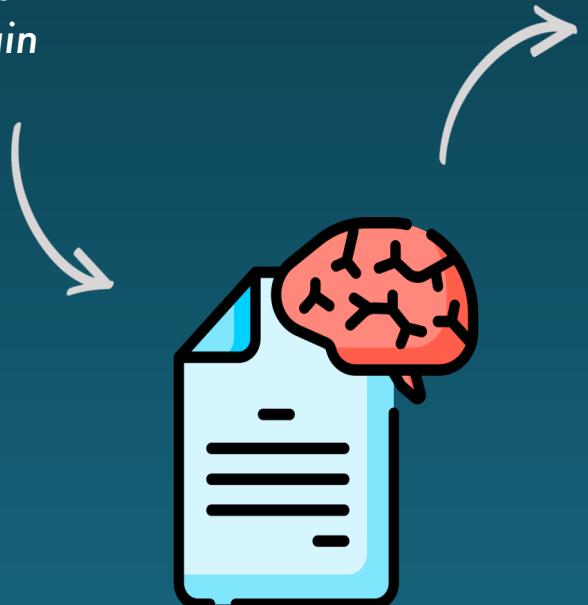
Blockchain and Applications

Chapter 6

DAO

Smart contracts

Smart contracts are “rules” embedded on a blockchain

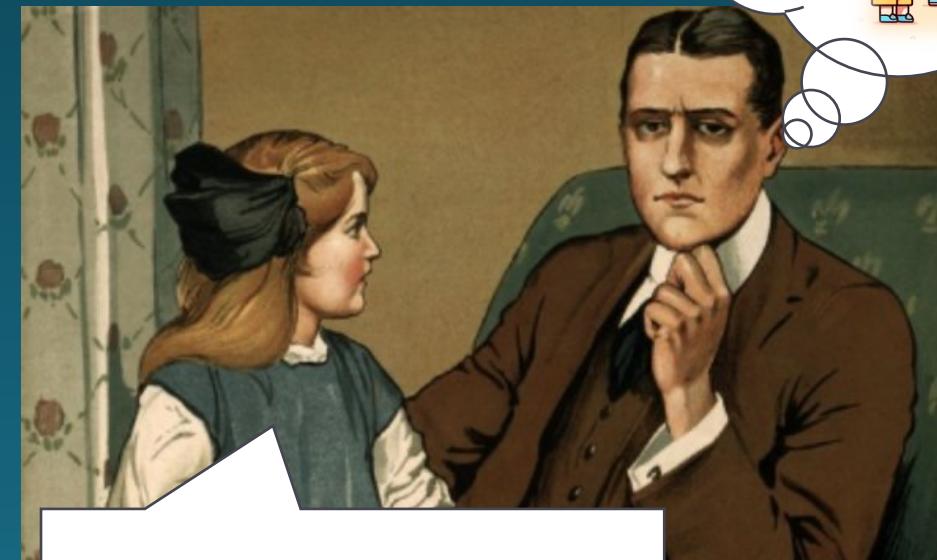


Thus, they benefit all perks a blockchain can have:

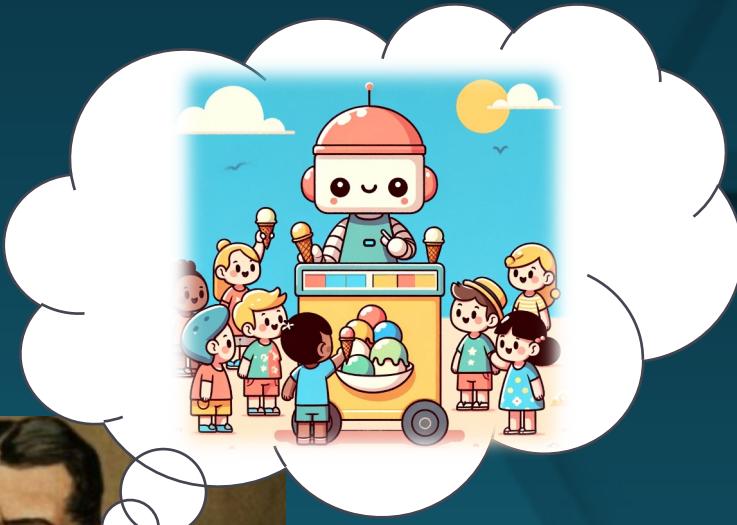
- *Immutability*
- *Automatization*
- *Security*
- *Decentralization*

NO THIRD PARTY NEEDED!

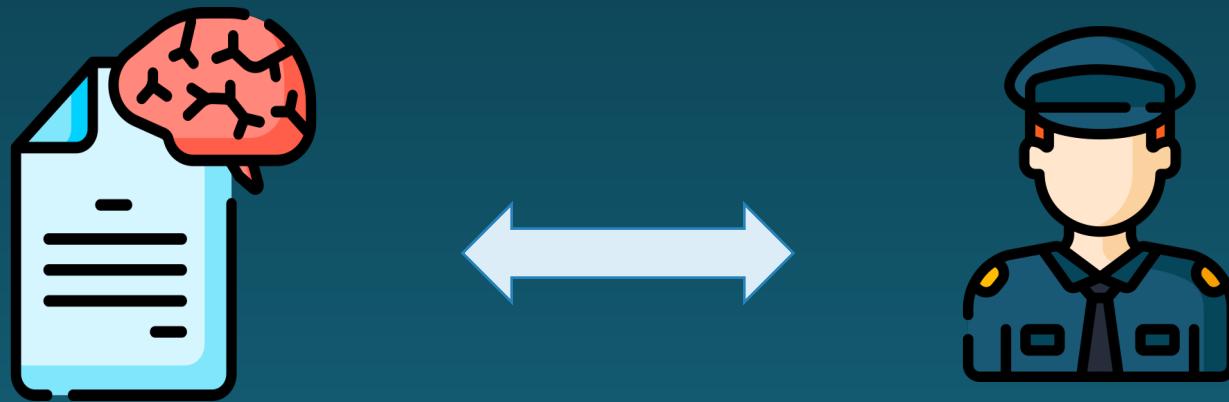
Are smart contracts new ?



Daddy, what will the future look like ?

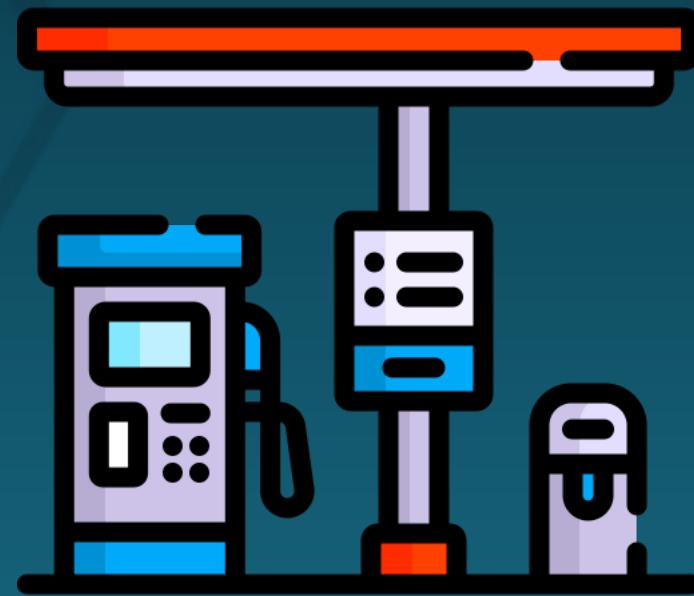


The real power of smart contracts



*Smart contract brainlessly enforce law on a system,
making it independent*

An example



Your typical gas station



*You use the terminal
to pay*

*You refill your gas
tank*



*You need gas, so
you drive to the gas
station*

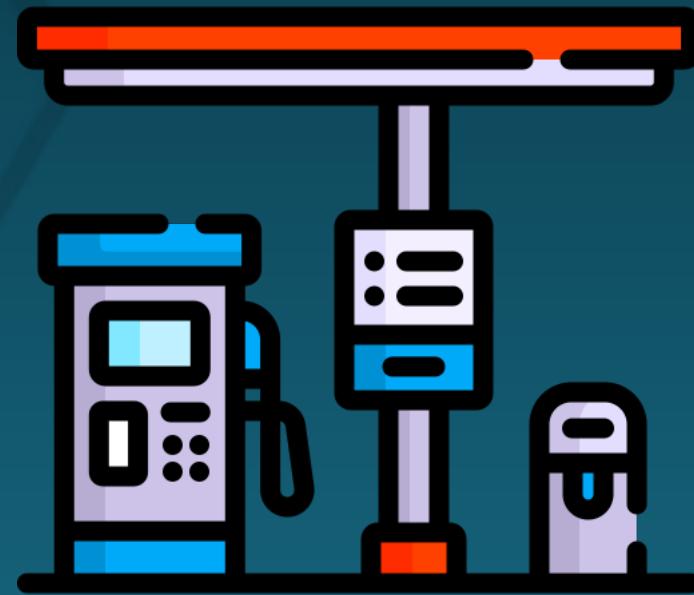
**NO HUMAN
INVOLVED!!...**

...or is that so?



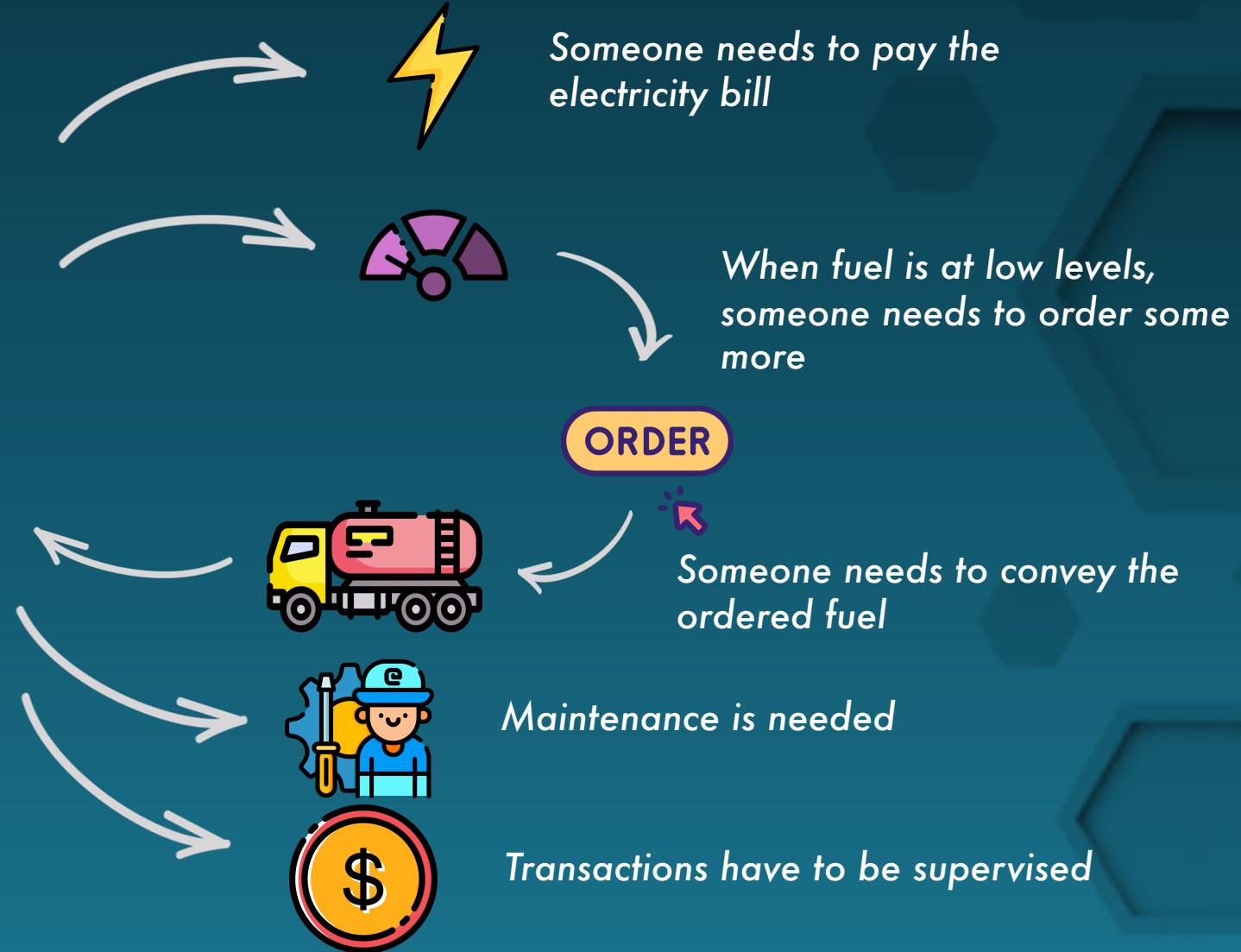
Until next time!

An example



Your typical gas station...

NEEDS HUMANS



Someone needs to pay the electricity bill

When fuel is at low levels, someone needs to order some more

ORDER

Someone needs to convey the ordered fuel

Maintenance is needed

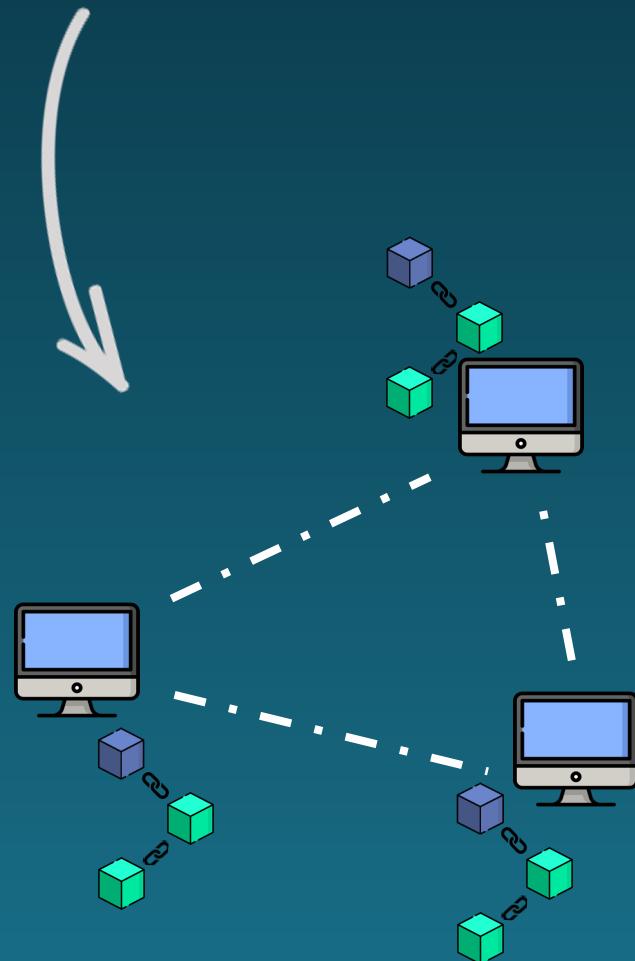
Transactions have to be supervised

DAO

Decentralized Autonomous Organization

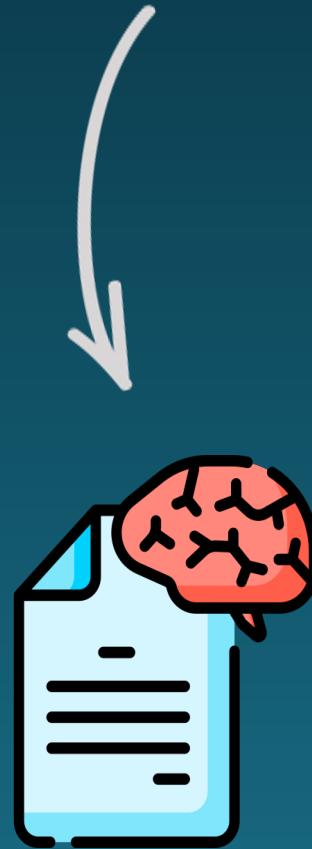
DAO

Decentralized Autonomous Organization



DAO

Decentralized **Autonomous** Organization



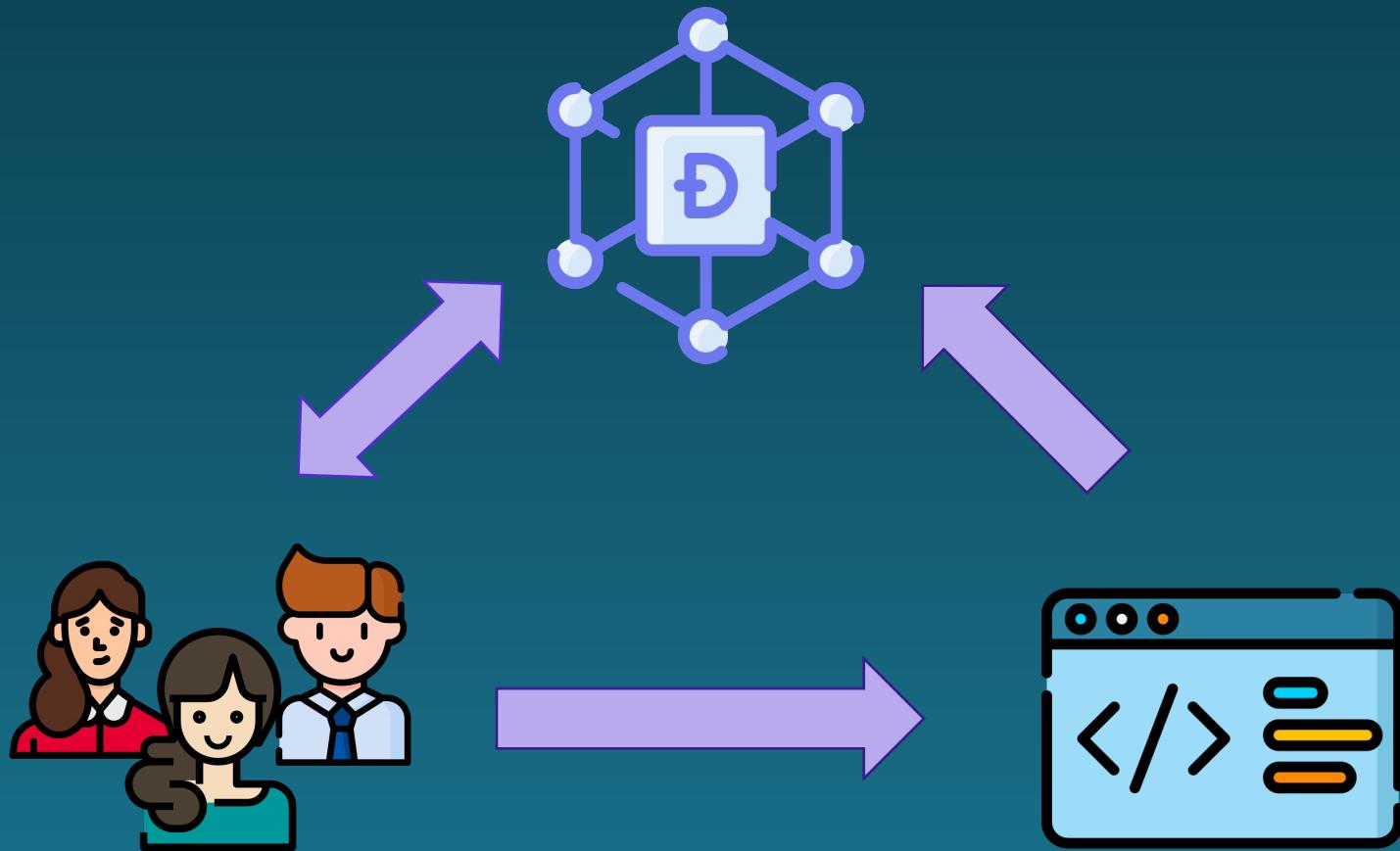
DAO

Decentralized Autonomous Organization

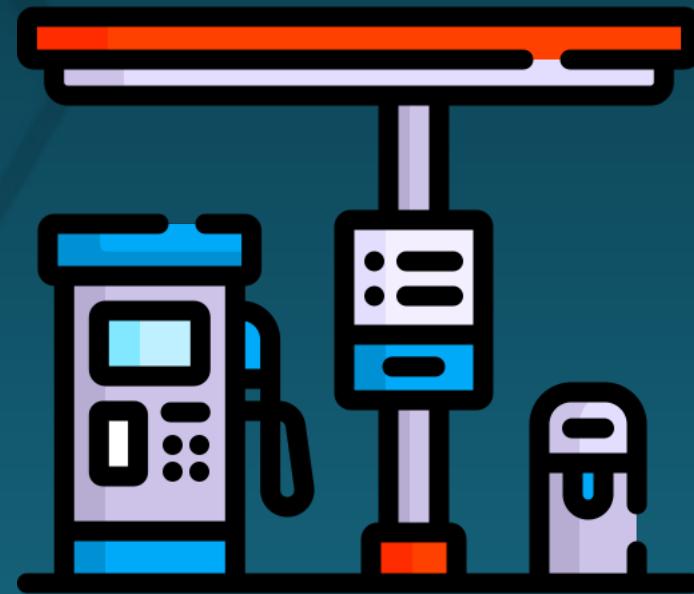


DAO

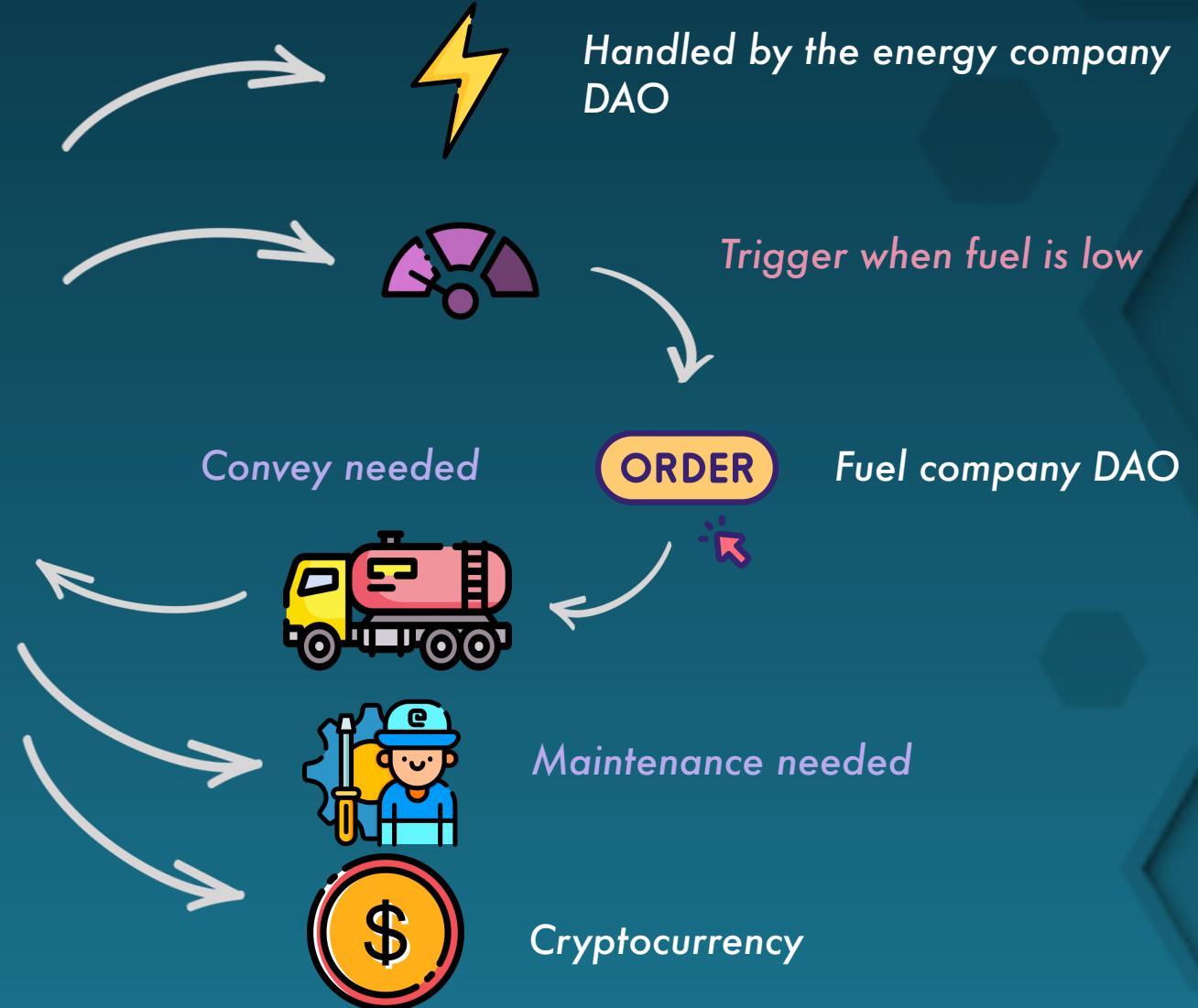
Decentralized Autonomous Organization



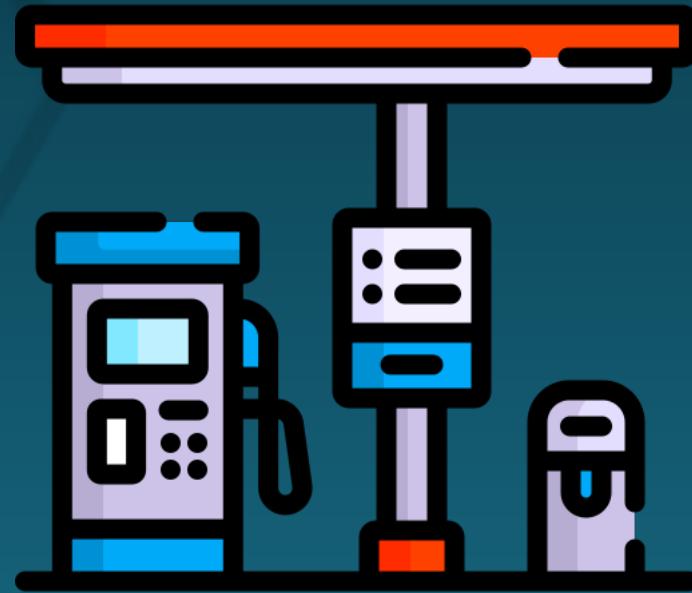
A DAO example



Your typical gas station



In a not so far future...



Your typical gas station in your neighborhood

Operates on, maintains, ...

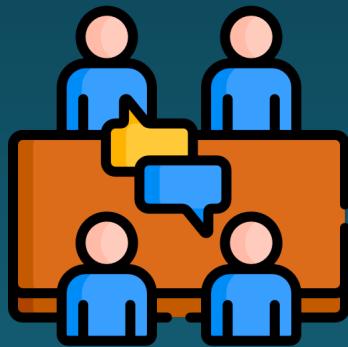


You

Rewards

Governance

Board members ...



... vote ...



Your typical company



*... measures for
the company ...*



*... that the CEO
makes sure they
are applied to the
company*

Governance

The community ...



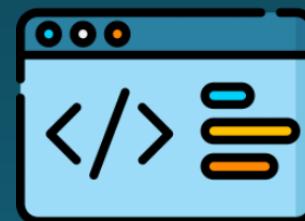
... votes ...



Your typical DAO



*... measures for
the DAO ...*



*... that the smart
contract will apply*



Where's the CEO ?

Governance

The community ...



... votes ...



Your typical DAO

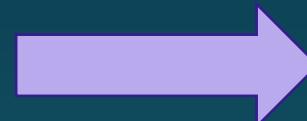
*How is that even possible, in a
community of a thousands of
members ???*



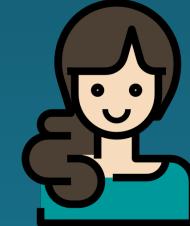
*... measures for
the DAO ...*

Governance

Vote weights are proportional to staked tokens



Control over DAO and rewards are proportional to staked token



STAKING !

Token value



“The DAO” (2016) : From Ethereum to Ethereum Classic



Venture Capital

First known and most famous DAO

150 Million dollars raised in a few days

Backed by Ethereum

Hacked: 50 Million dollars stolen

*Soft fork denied; hard fork created Ethereum
Classic*

“ConstitutionDAO” (2021) : Shared owning of a piece of history

Community-based fund raising

*Target of funds : an original copy of the USA
constitution*

47 Million dollars raised in a few days

Participated in a Sotheby's Auction

Lost to a 43.2 Million dollars offer

Slowly dismantled: refund took weeks due to fees



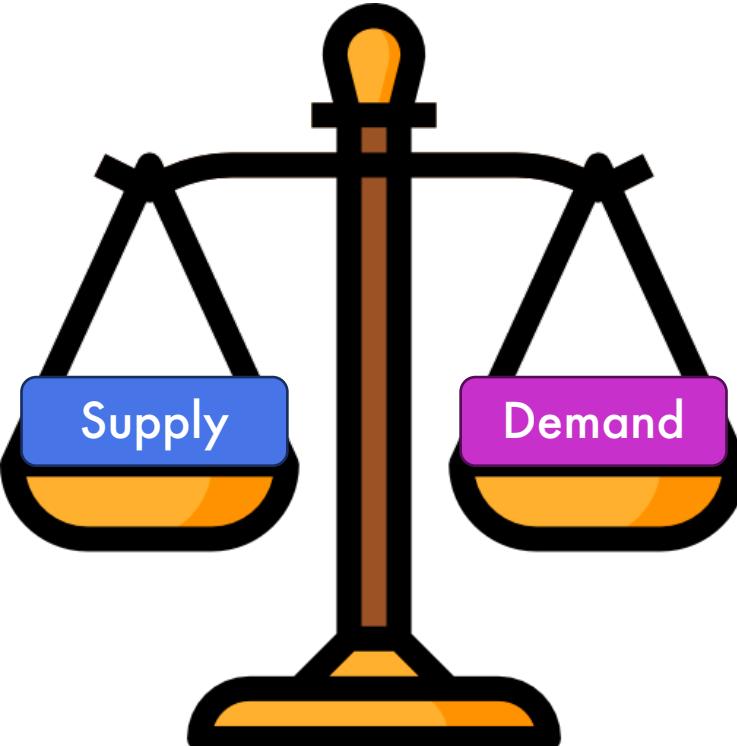
Bonus: Tokenomics

How an economy is mandatory to
popularize DAOs

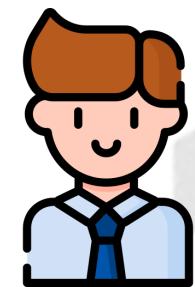
Tokenomics



I offer 1
bamboozloo



Economics 101

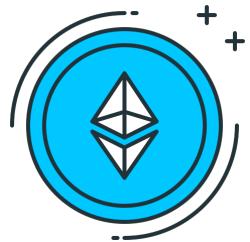


I need 1
bamboozloo

Tokenomics



Max. supply of 21 Million bitcoins



Infinite supply but % of fees are burnt



Staking, vesting, ICO, Airdrops, ...



Tokenomics

Synapse SYN



\$0.7314 ▲ 1.61% (1d)

Add to watchlist



Track in portfolio



Market cap ▲ 1.66%

\$135,504,392



Volume (24h) ▲ 0.00%

\$10,821,359



Volume/Market cap (24h) 8.03%

Circulating supply ✓

185,276,473 SYN



Total supply i

212,212,735 SYN

Max. supply i

250,000,000 SYN

Fully diluted market cap i

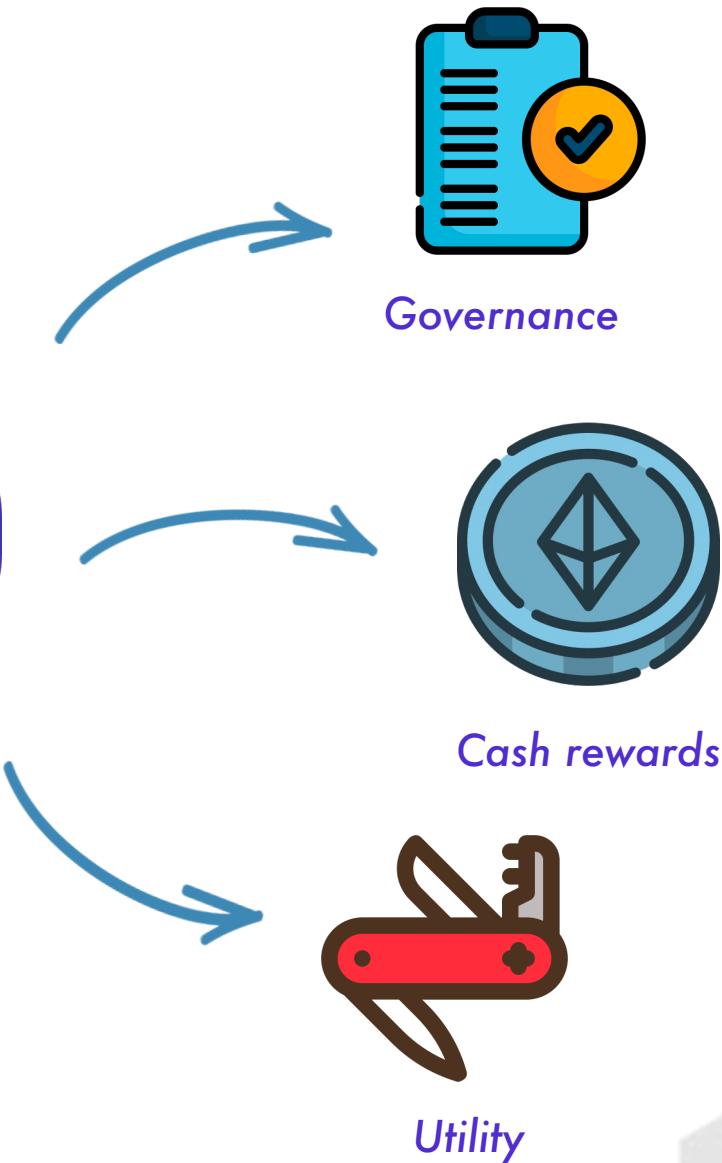
\$182,889,274

Token Distribution

Max Supply: 500 000 000 SNP



Tokenomics



Innovation in Blockchain



Blockchain and Applications

The end