



CRUCIAL



web3  
foundation



inlock

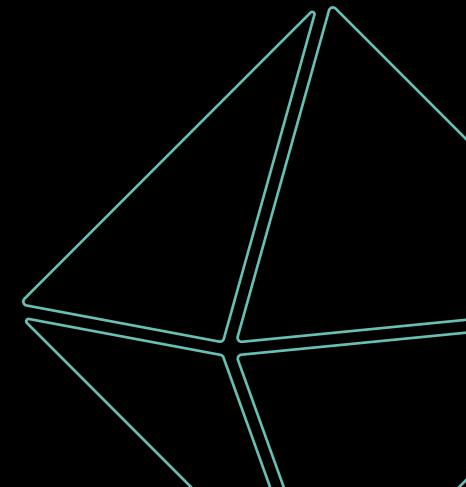
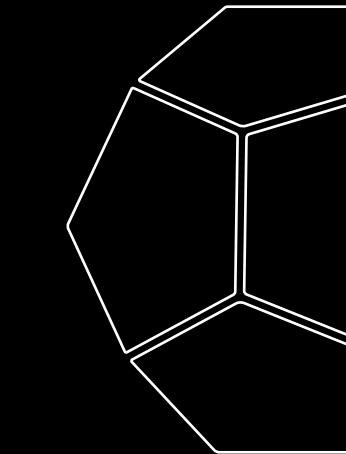
# First Polkadot Meetup in Hungary

# Why Substrate exists?

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ethereum



# Why Substrate exists?



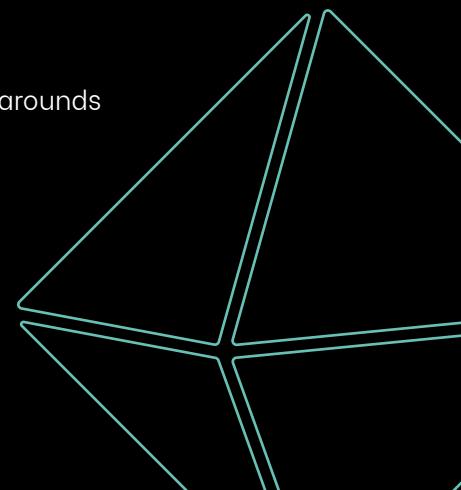
⚡ High gas fees



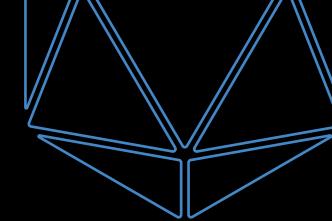
ethereum

⚡ Lack of core upgradability

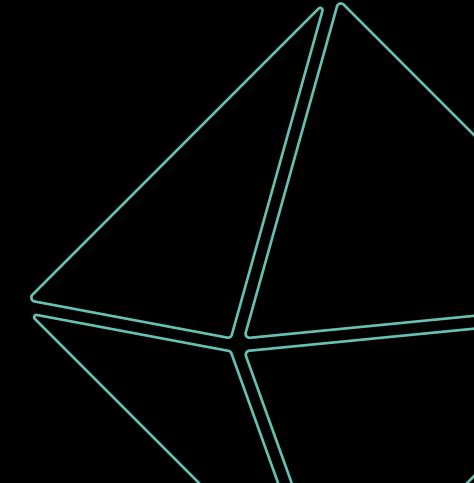
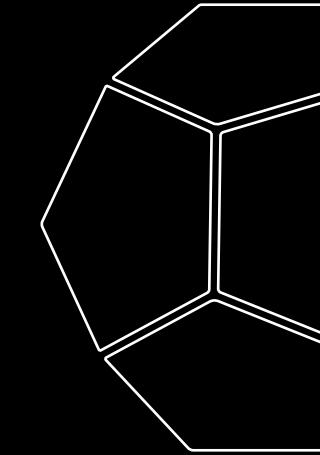
⚡ Generalist design cause clunky workarounds



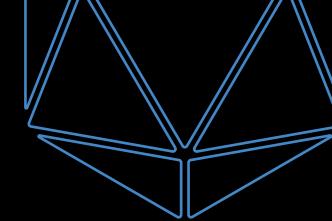
# Why Substrate exists?



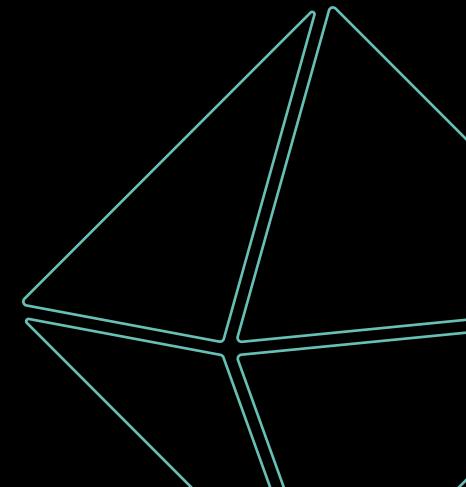
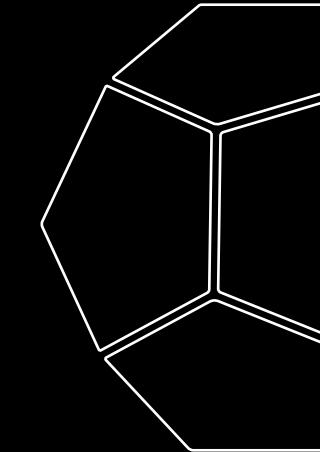
ethereum

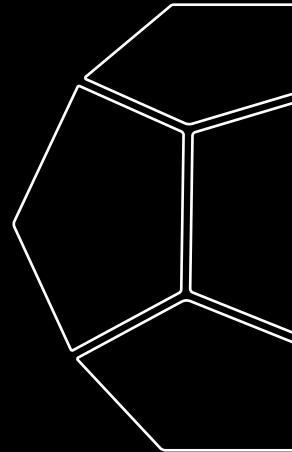
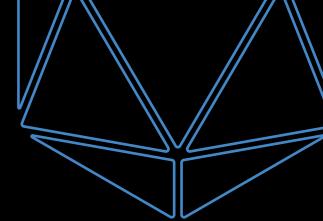


# Why Substrate exists?



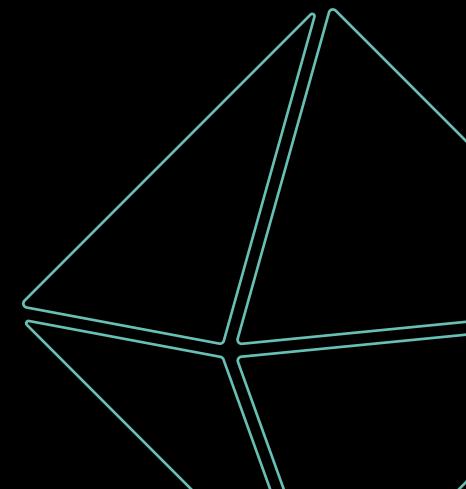
*Polkadot.*

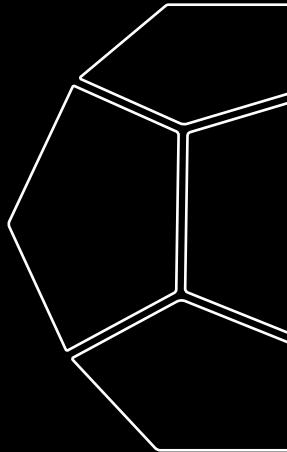




## Quick review of blockchain

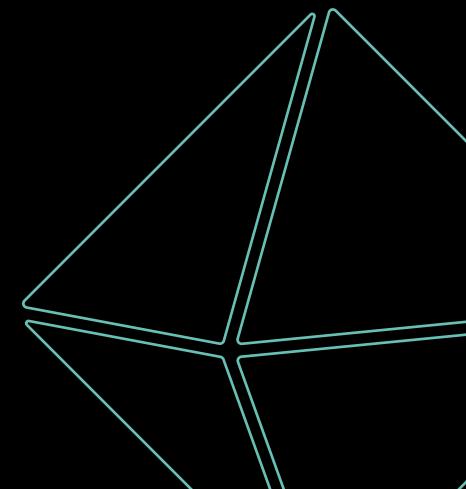
- Basically a log of state transitions bundled into a block
- each block is a reference to the parent block





# Modern blockchain architecture

Modern blockchain consist of nodes



## Nodes consist of

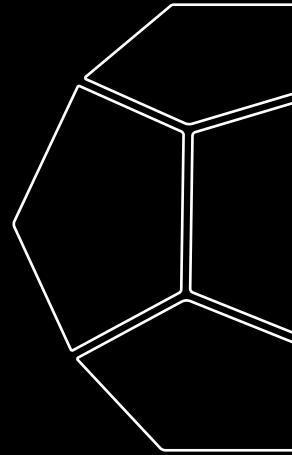
Database

P2P network

Consensus algo

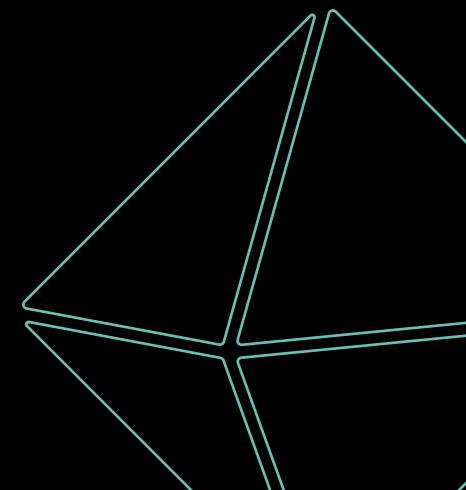
Transaction handling

State transition functionality



# Why Substrate is awesome

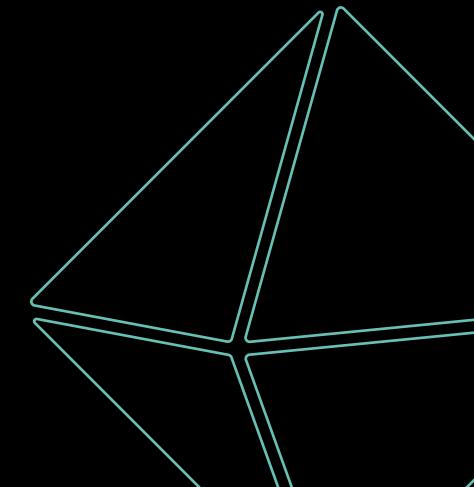
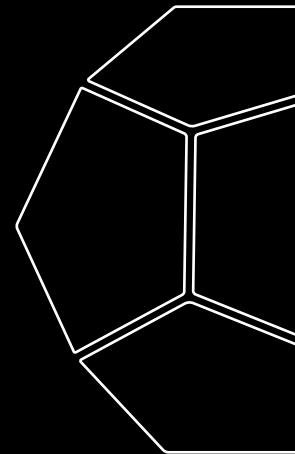
Tailored solutions instead of clumsy  
workarounds and patchwork networks





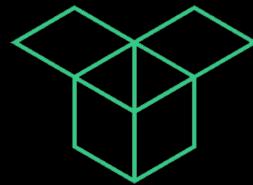
# Why Substrate is awesome

Tailored solutions instead of clumsy workarounds and patchwork networks





## Substrate is useful when time or resources are limited



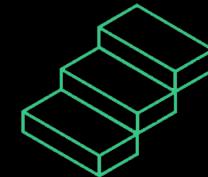
OPEN



FLEXIBLE

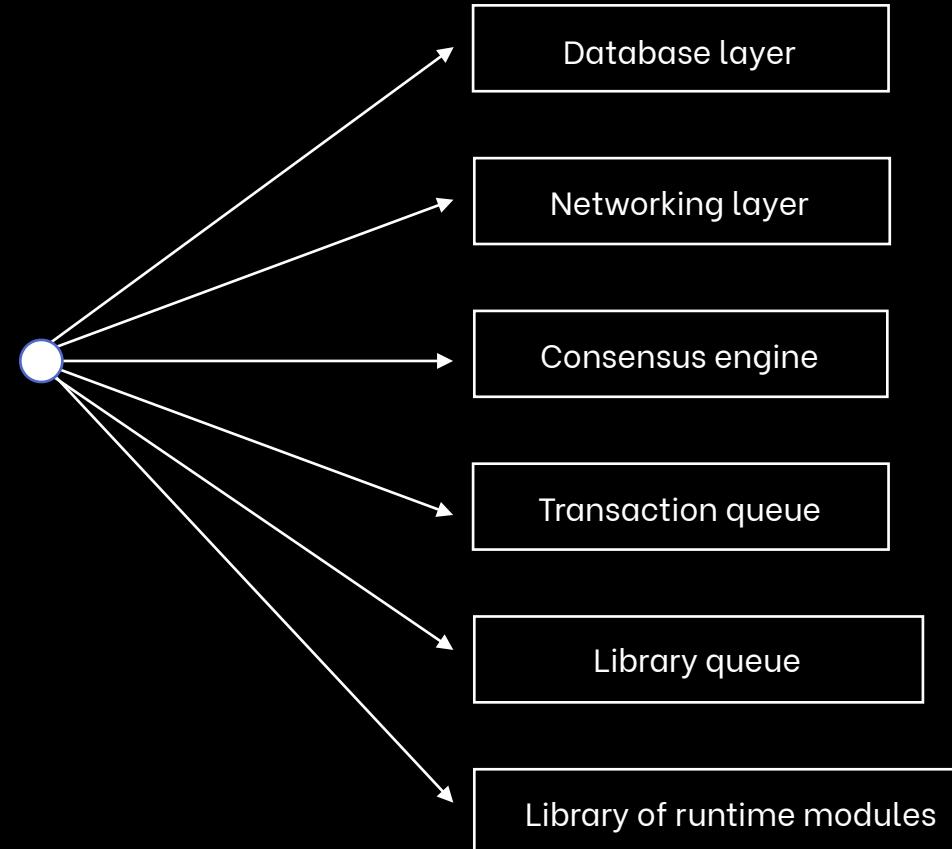


INTEROPERABLE



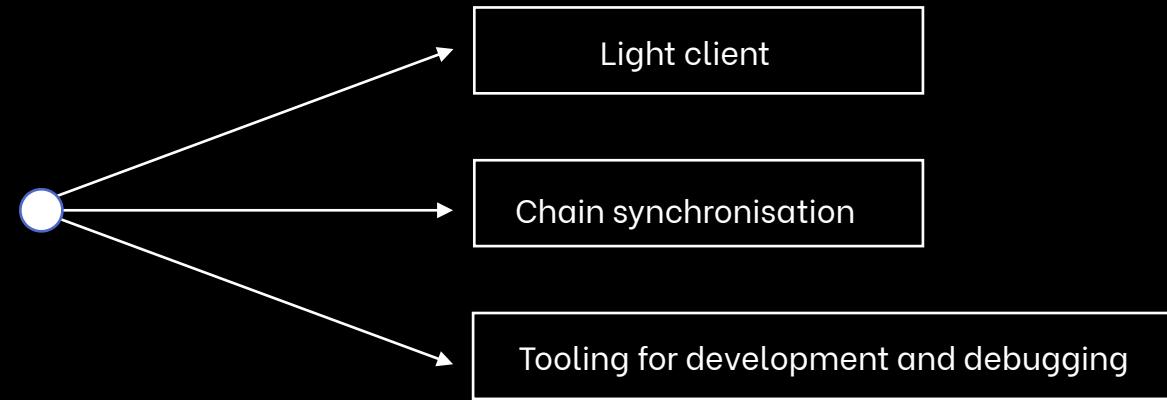
FUTURE-PROOF

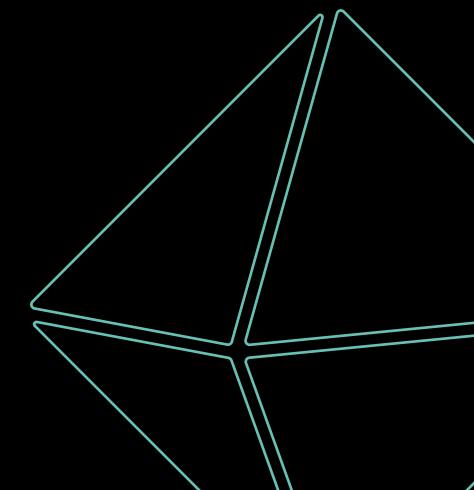
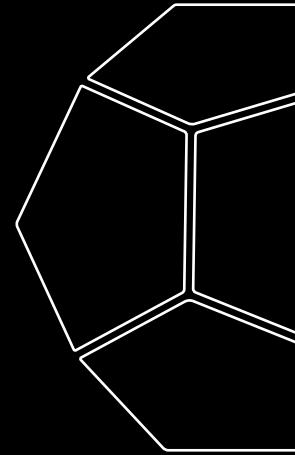
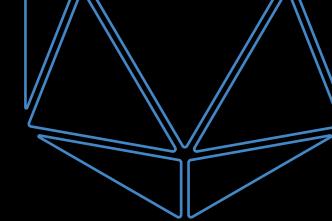
**Substrate provides  
you with everything**



# FULLY CUSTOMIZABLE!

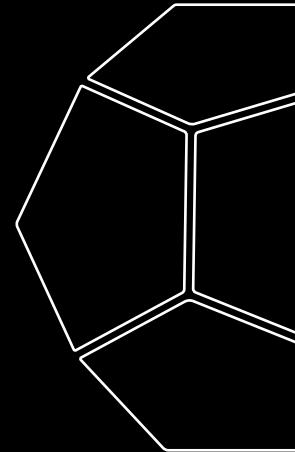
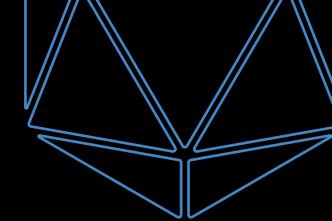
# What else?





# Forkless upgrades





# Substrate is written in Rust

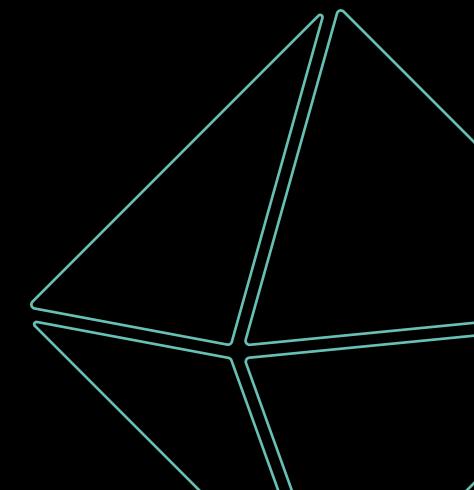
TECHNICAL FREEDOM

Substrate CORE

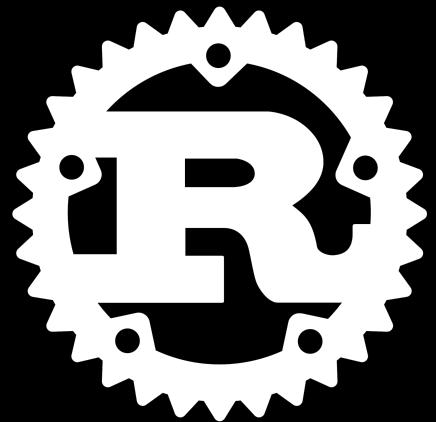
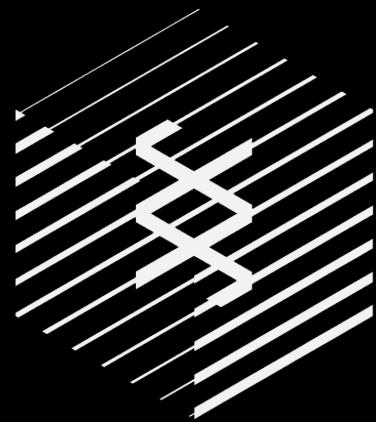
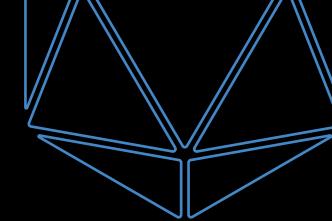
Substrate FRAME

Substrate Node

DEVELOPMENT EASE



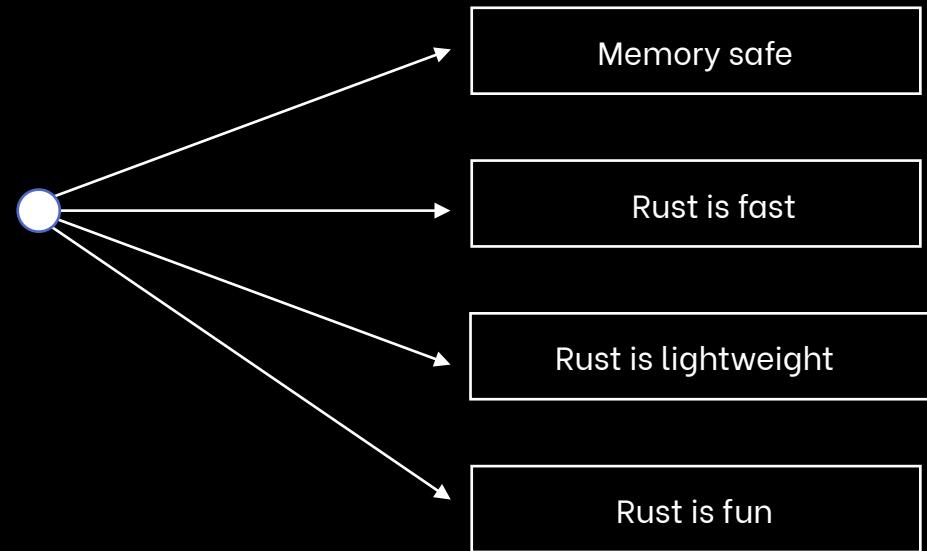
# Developing on Polkadot vs. Ethereum

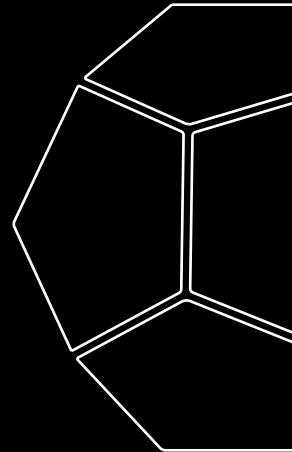


SOLIDITY



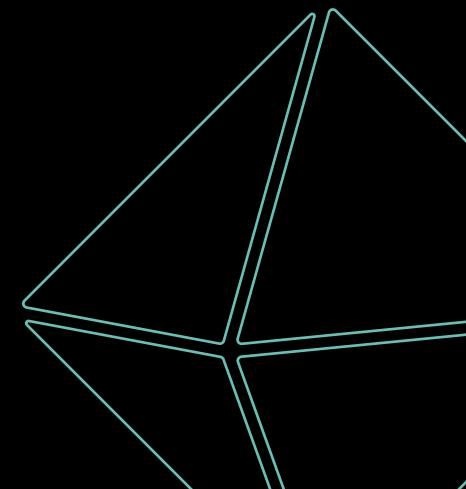
# Why Rust is awesome



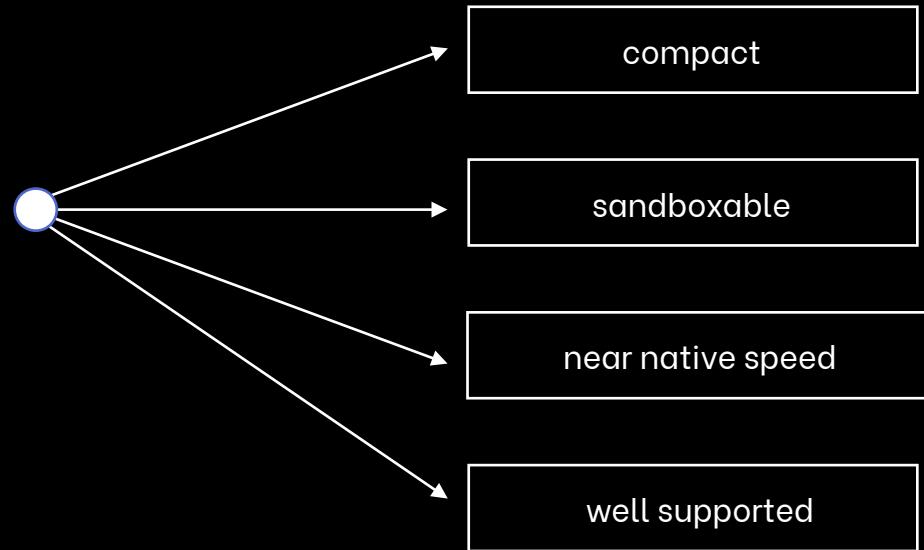


# Let's talk about WASM (web assembly)

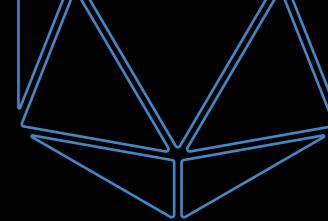
Platform for independent executable format which aims to be as close to the machine code as possible



# WASM is...



# Rust compiles directly to WASM!



Metachain

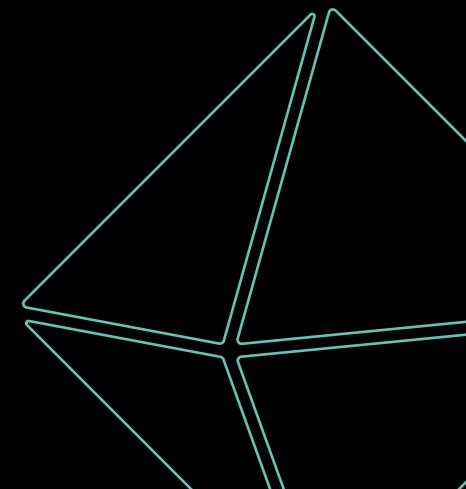
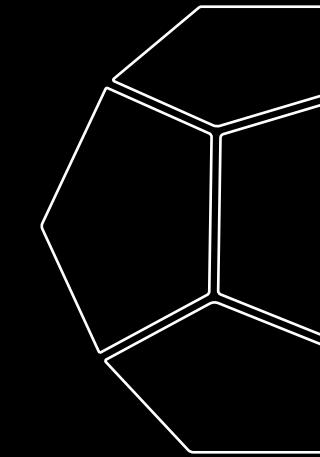
User-driven network governance

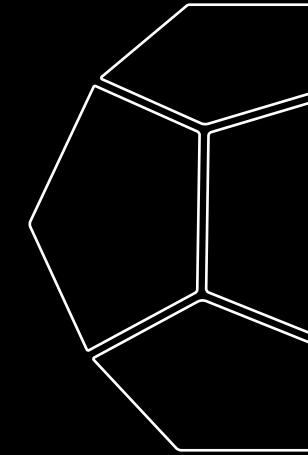
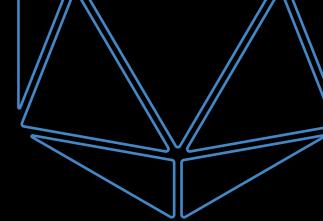
Forkless and future-proof

# Polkadot.

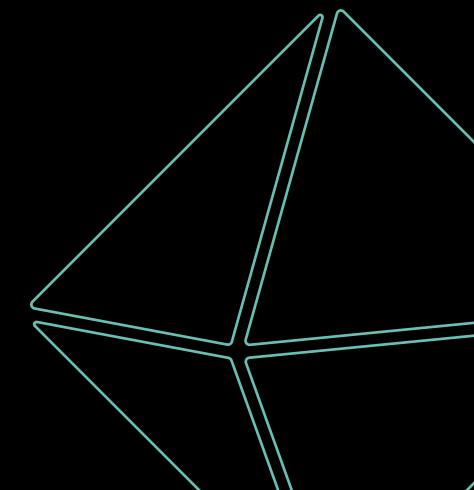
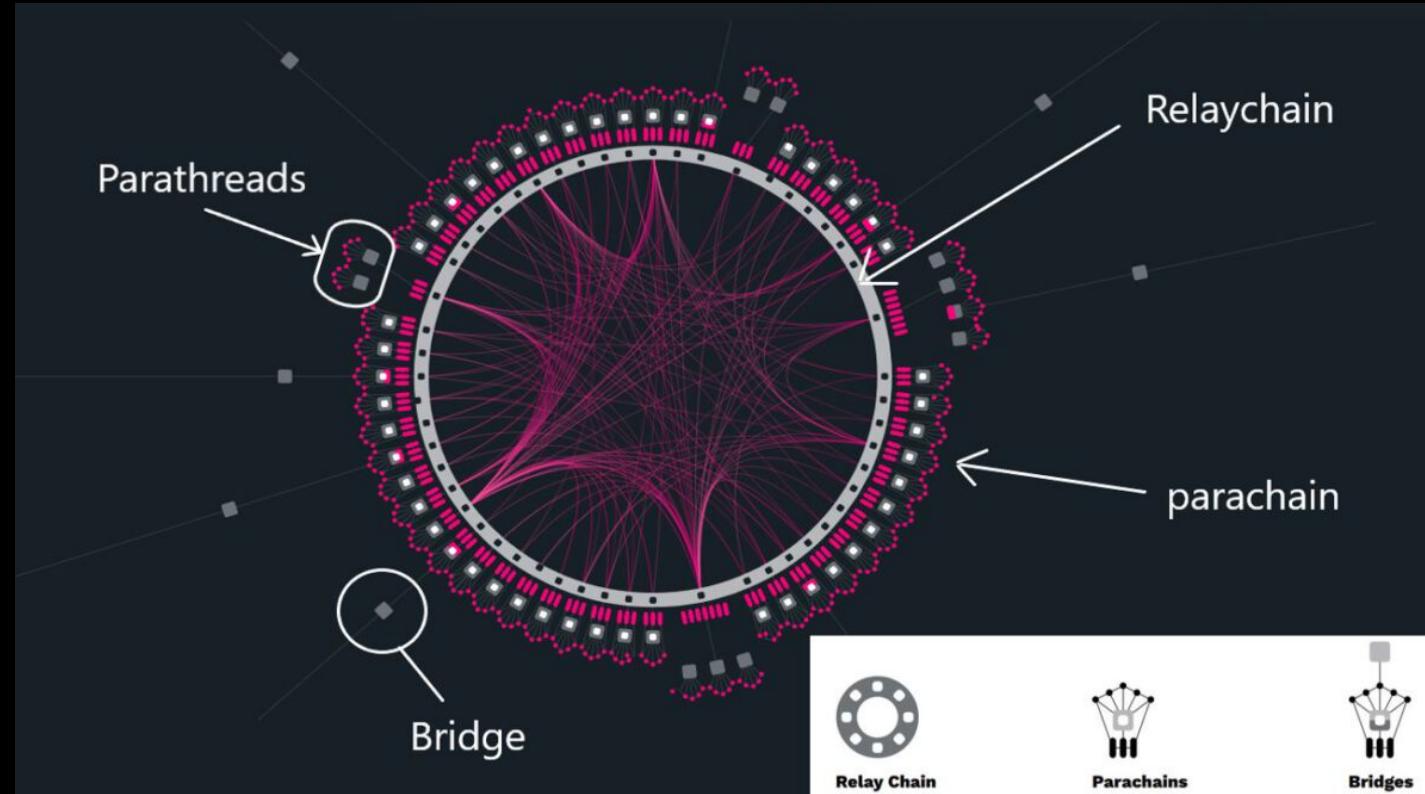
True interoperability

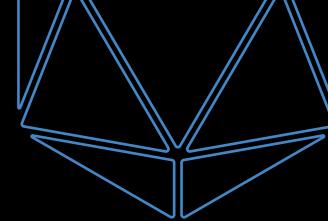
Economic & transactional scalability



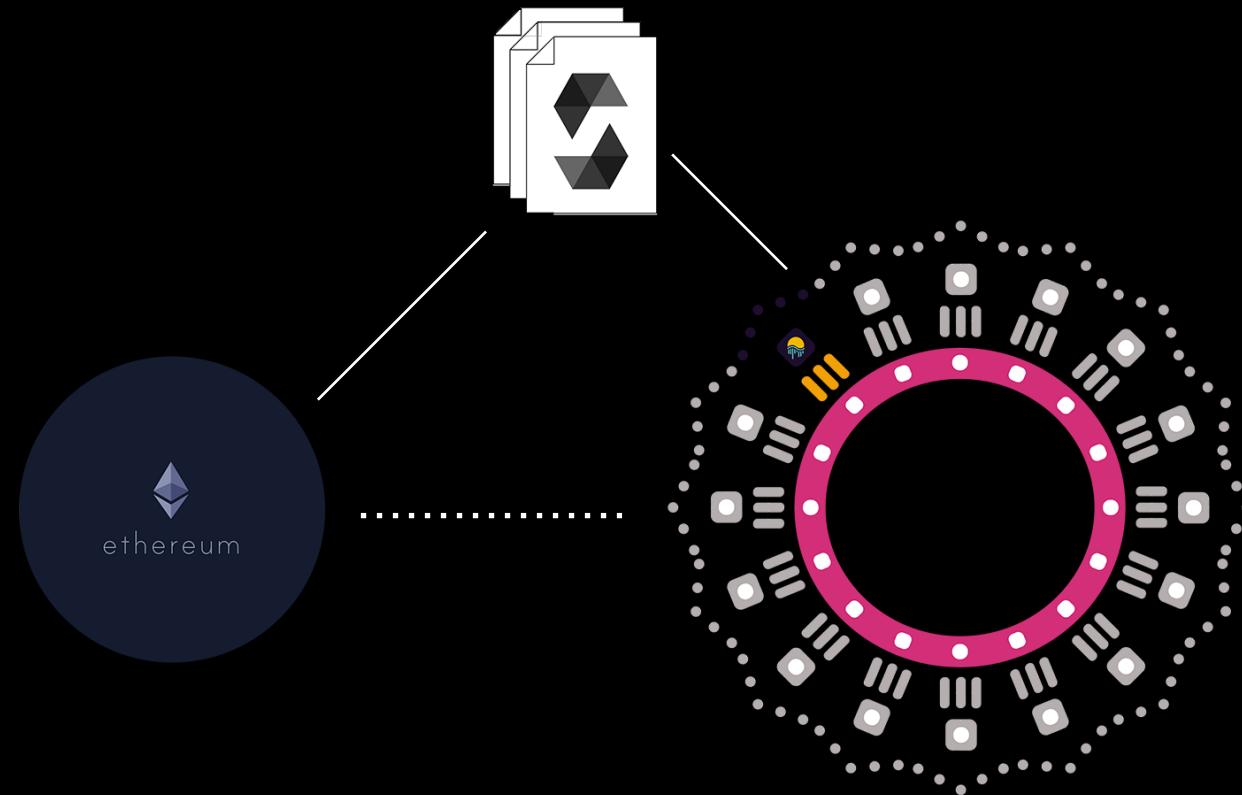


# Polkadot/Kusama architecture





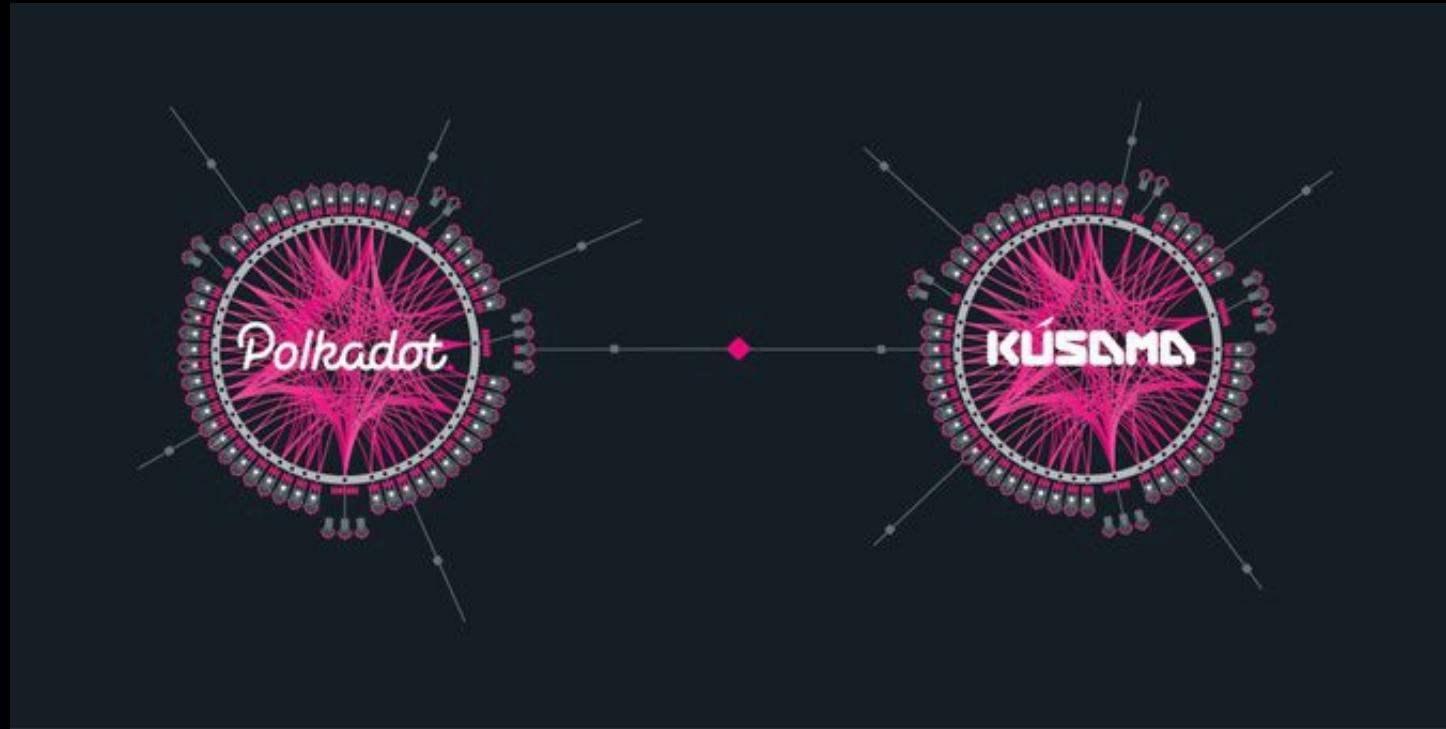
# Polkadot - Ethereum bridge through Moonbeam





Budapest, 19th of November 2021

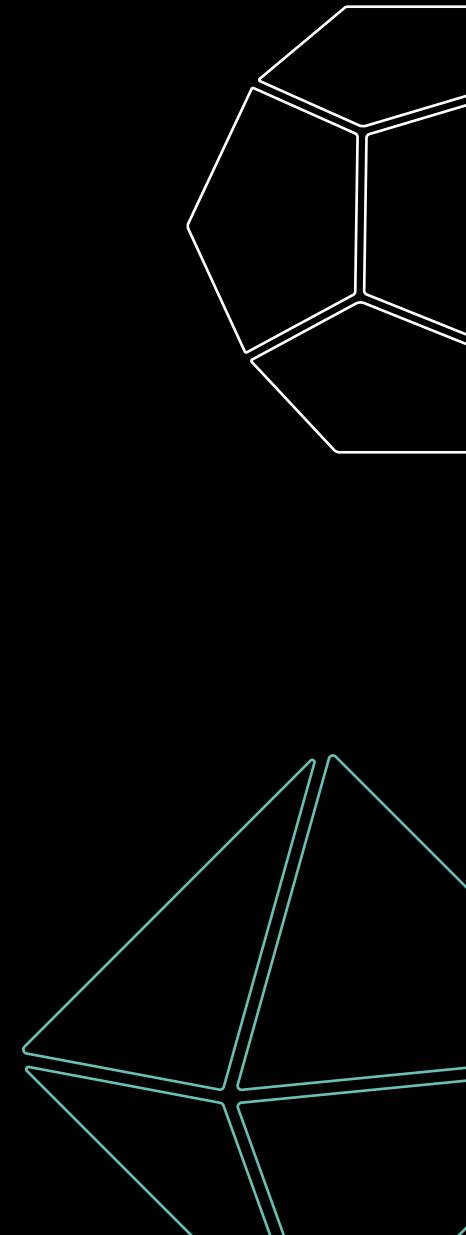
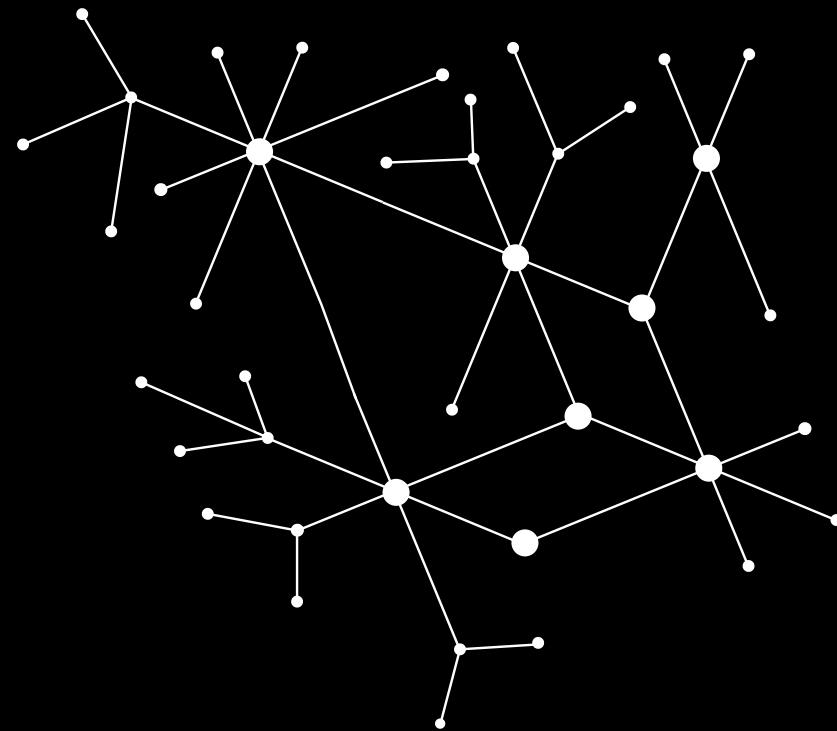
# The importance of having a canary network





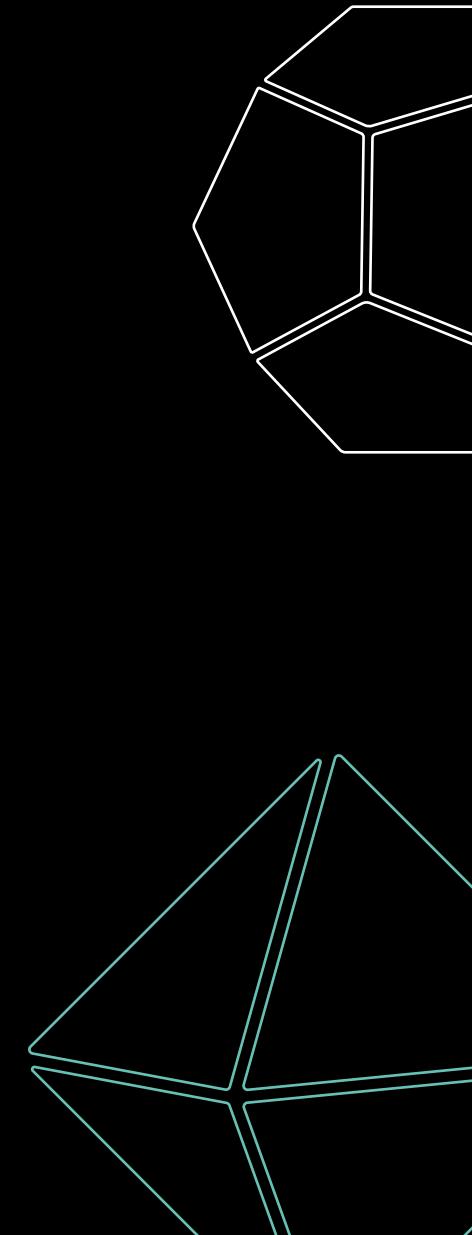
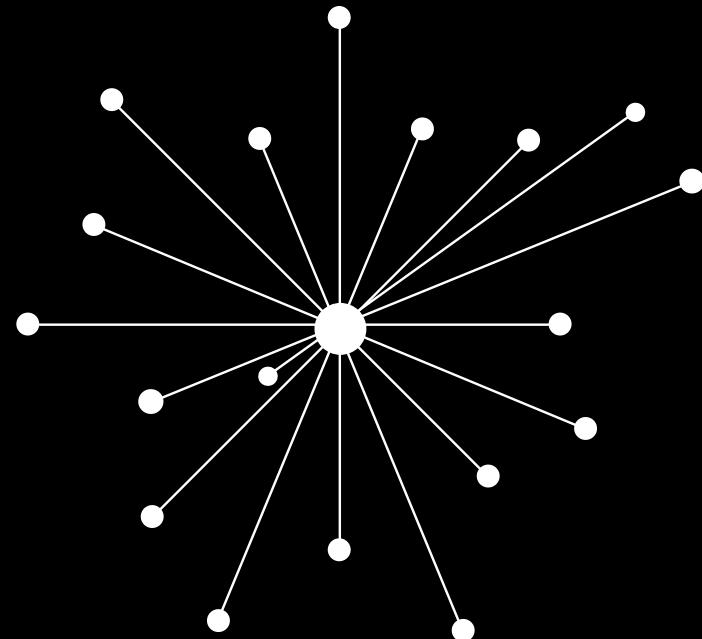
Budapest, 19th of November 2021

# Let's talk about Decentralization of crypto projects





**... or the lack of it.**



# Crypto projects promise a lot



... but the reality looks different.

## "Squid Game" crypto coin promoters vanish with investor millions in "rug pull" scam

BY KHRISTOPHER J. BROOKS

NOVEMBER 2, 2021 / 5:21 PM / MONEYWATCH



```
function adminWithdraw(address payable _address, uint256 _amount) external{
    require(msg.sender == admin, 'NOT_ADMIN');
    _address.transfer(_amount);
}
```

**NEWS**  
A hacker stole more than \$55 million in crypto after a bZx developer fell for a phishing attack

Kevin Shalvey Nov. 7, 2021, 10:10 AM



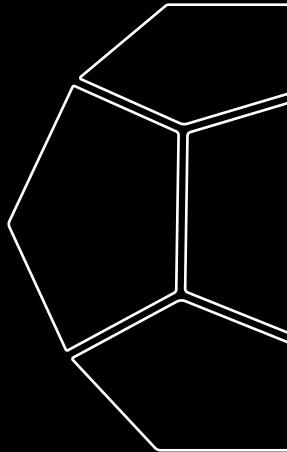
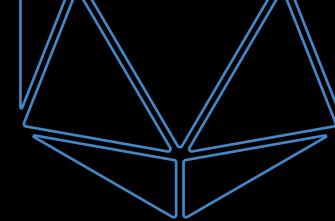
**Man Who Lost \$378 Million Bitcoin Fortune in Landfill Plans 12-Month Search**



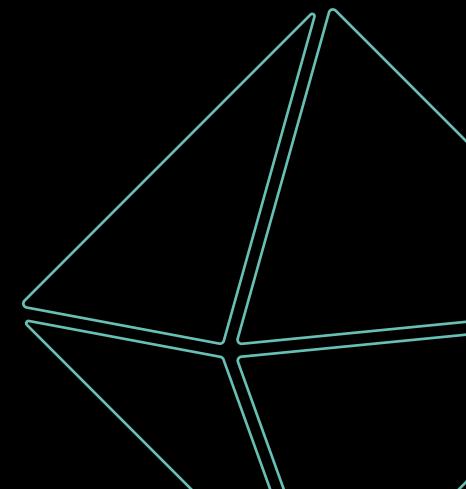
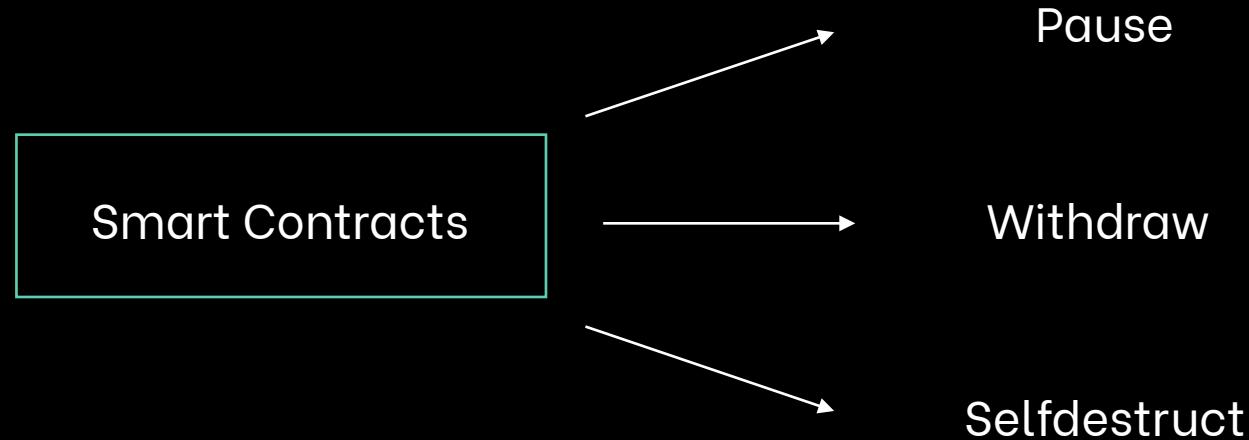


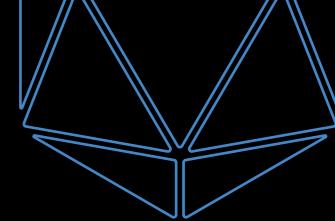
... the worst.



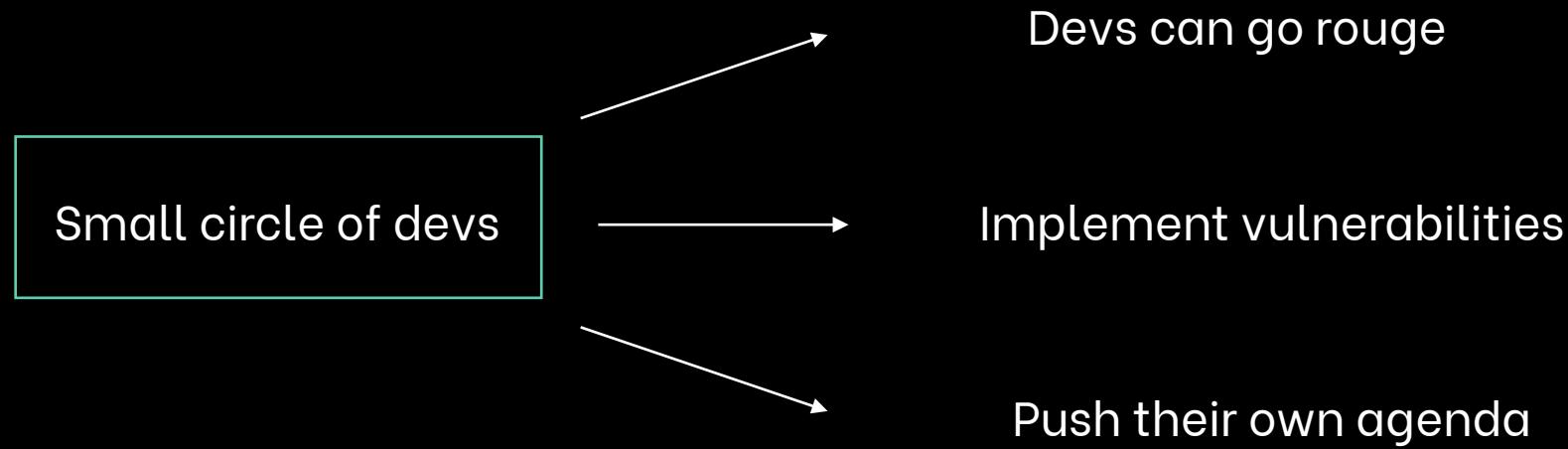


## What's the issue with the lack of decentralization





## What's the issue with the lack of decentralization

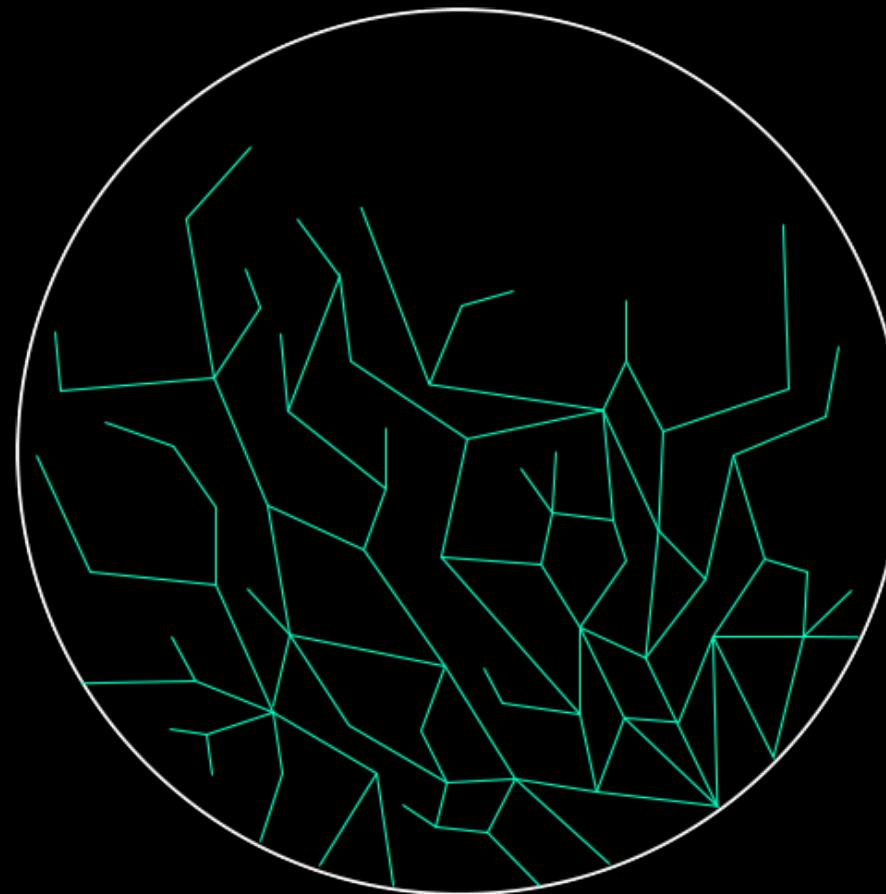




## What's the issue with the lack of decentralization



# Solution: VORONOI



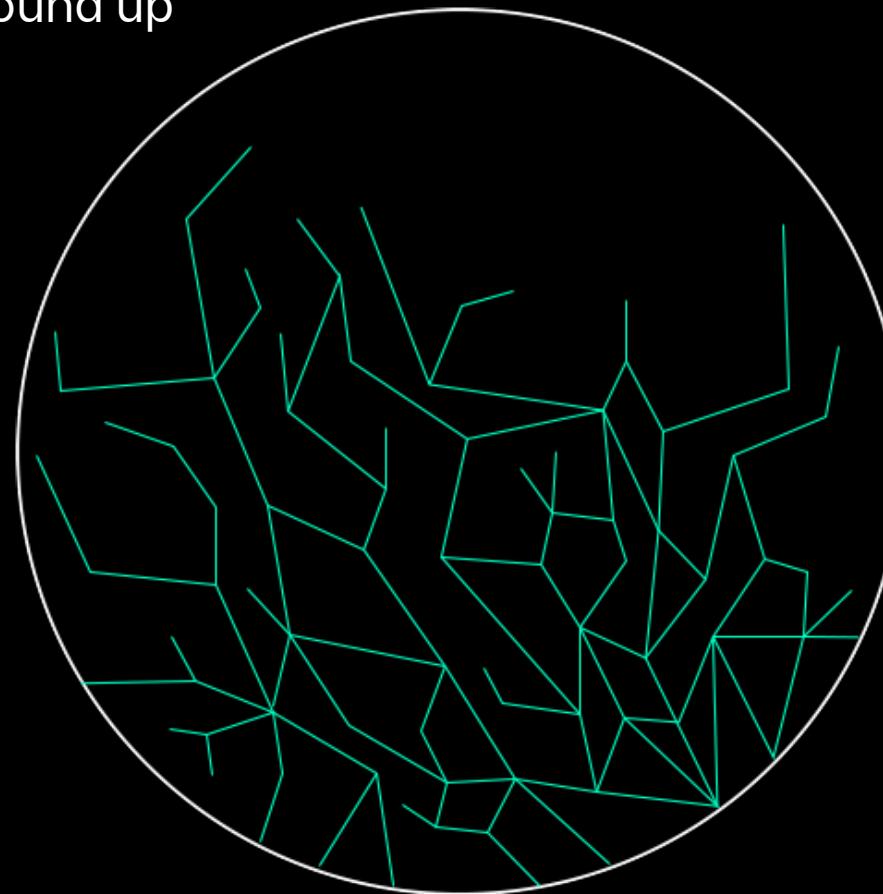
# VORONOI

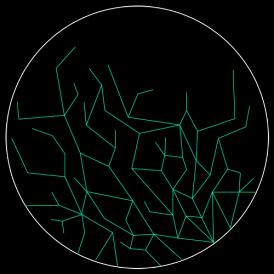
Decentralization from the ground up

Philosophy

Logic

Library

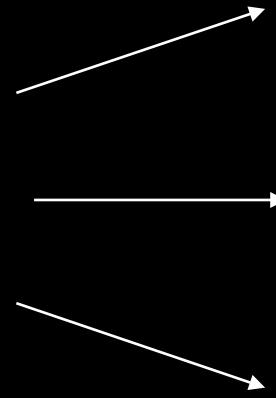




## Hack with us

Code VORONOI for Polkadot

How you can contribute



Spread the word

Hack with us

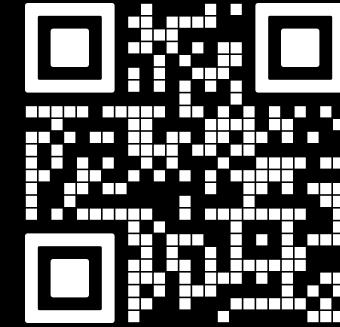
Work with us and get a lousy t-shirt



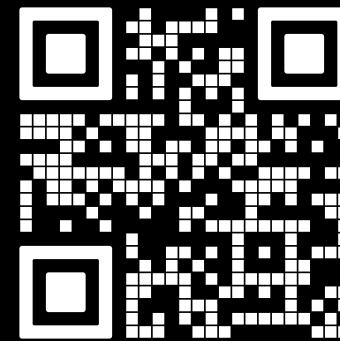
**THIS IS QRUCIAL.**



# LET'S HACK'N'TALK



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web3foundation  
sponsors  
Pizza for us  
tonight!